



McHenry County  
Zoning Board of Appeals - Zoning Hearing  
AGENDA

September 4, 2025, 1:30 PM  
County Board Conference Room  
Administration Building, 667 Ware Rd., Woodstock, IL 60098

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Pages

1. CALL TO ORDER
2. ROLL CALL
3. NEW BUSINESS / PUBLIC HEARING
  - 3.1 Z25-0028 GLG Solutions, Inc., B3 - B3C, Coral Twp
4. OLD BUSINESS
5. PUBLIC COMMENT

Topics unrelated to public hearing - 3-minute time limit per speaker
6. ANNOUNCEMENTS
7. ADJOURNMENT

2



# Staff Report for the McHenry County Zoning Board of Appeals

**Application:** #Z25-0028

**PIN:** 17-27-300-028, 17-27-300-026, 17-28-400-010, and 17-28-400-012

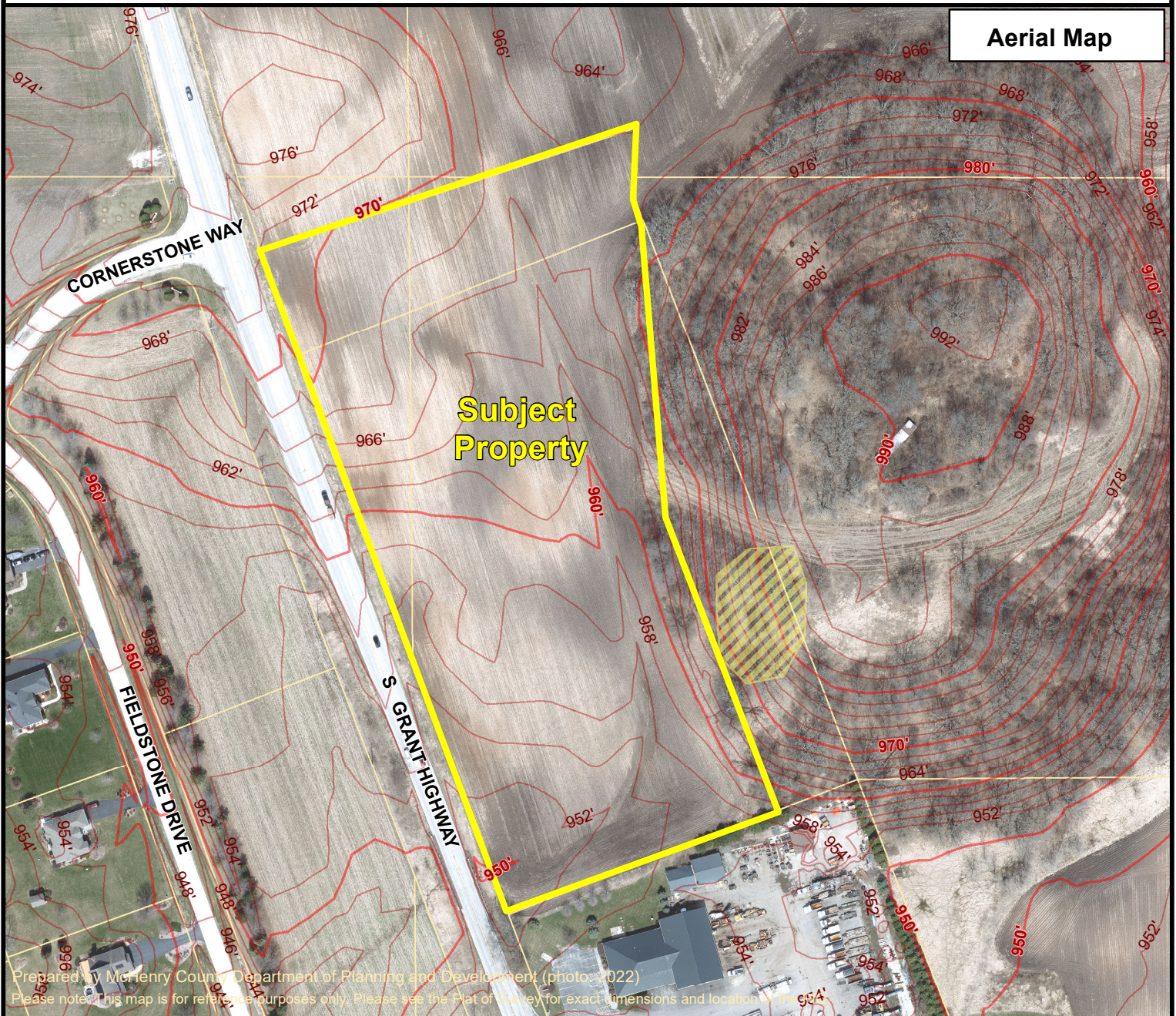
**Address:** Illinois Route 20, Marengo

**Location:** The four (4) parcels, totaling ten point two (10.2) acres are on the east side of Illinois Route 20 (Grant Hwy), approximately a one thousand five hundred (1,500) feet south of Church Road, in Coral Township.

**Hearing:** September 4, 2025

**Applicant:** GLG Solutions Inc

**Request:** B-3 General Business District to B-3CV General Business District with Conditional Use Permit outdoor storage and variances allowing vehicles not owned by property owner or tenant to be stored on-site and use grindings in lieu of pavement.



## 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  
100 50 0 100 200  
1 inch equals 200 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 subject property, zoned B-3 General Business District, consists of four (4) undeveloped parcels, totaling ten point two (10.2) acres. These parcels are located on the east side of US Highway 20 (Grant Highway), approximately one thousand five hundred (1,500) feet south of Church Road.

The applicant is proposing to develop the subject property with a repair shop for semi-trucks with a parts warehouse. As part of this business plan the applicant is also seeking a conditional use permit to allow a storage yard and two variances: (1) to allow vehicles not owned or leased by the property owner or tenant to be stored on-site, and 2) to use asphalt grindings in lieu of paving.

## **MCHENRY COUNTY UNIFIED DEVELOPMENT ORDINANCE**

- The Applicant must meet the Approval Standards for a Conditional Use Permit, listed in County Code Section 16.20.040.E of the McHenry County Unified Development Ordinance (UDO).
- The Applicant must meet the Approval Standards for a Zoning Variance, listed in County Code Section 16.20.020 F of the McHenry County Unified Development Ordinance (UDO) for each of the requested variances.

## **STAFF ANALYSIS**

### Current Land Use & Zoning

In 2015, the subject property was zoned B-3 General Business District (#15-27). The properties to the north and south of the subject property are also zoned B-3 General Business District. Properties to the east are zoned E-1 Estate. Properties to the west are zoned PD Planned Development for a single-family residential neighborhood.

The subject property and properties to the north and east are used agriculturally and/or are undeveloped. The properties to the south are commercially used – immediately to the south is an asphalt services business and the property further south is used as an athletic facility. The properties to the west are part of a single-family residential neighborhood, with the properties adjacent to US Highway 20 being designed to accommodate stormwater.

### 2030 Comprehensive Plan Future Land Use Map

The 2030 Comprehensive Plan Future Land Use Map designates this property, and the properties surrounding it, as **Estate**. Properties to the southwest of the subject property are designated to develop with retail uses.

### 2030 Comprehensive Plan & 2030 and Beyond Analysis

The proposed use of the property is inconsistent with the 2030 Comprehensive Plan's Future Land Use Map designation of Estate, however there are policies within this document, and the 2030 and Beyond report, which can be used to support, or reject, the proposed use. (*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 closest municipality to the subject property is the Village of Hampshire, which is one and a half (1.5) miles from the subject property.
- The subject property is adjacent to other development – a residential subdivision to the west and commercial development to the south.

#### Big Idea #2 Let's build on our strengths

*"We can make it happen by recognizing the economic and social importance of our agricultural industry."* (p. 15)

- The applicant has indicated that the proposed business will provide repairs to semi-trucks and will include a parts warehouse. As part of this business, the applicant is seeking a storage yard where semi-trucks can be stored while in-line for repairs and for short term storage (for drivers who are home for short durations or on vacation). It is conceivable that some of the trucks will be used for agricultural purposes.

#### Big Idea #3 Let's grow smarter

*"We can make it happen by supporting business development and commercial uses to reduce the property tax burden on residential homeowners."* (p. 17)

- Property taxes are assessed based upon the use of the property – with agriculturally used properties being assessed at a rate lower than a commercially used property. Thus, if the property were to develop as proposed, the property taxes would presumably be assessed at a higher rate.

#### Big Idea #4 Let's expand our economy

*"We can make it happen by facilitating new business and the expansion of existing businesses."* (p. 21)

- The conditional use, for a storage yard, is a significant component of the proposed business. Without this conditional use permit it is unlikely that this business would be developed at this location.

### *McHenry County 2030 Comprehensive Plan, Adopted April 20, 2010*

#### Community Character & Housing

*"Promote increased density and compact contiguous development."* (p. 15)

- Within a quarter (0.25) mile of the subject property there are two (2) residential subdivisions, three (3) commercial businesses and an industrial business.

#### Agricultural Resources

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

- The subject property is currently used for crop production.
- There are adjacent properties which are not used for agricultural purposes.

#### Greenways, Open Space & Natural Resources

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

- The Natural Resources Information report for this site (NRI 25-008-4669) indicates that there are no wetlands nor floodplains located on this property.

#### Water Resources

*"...land use and development should be carefully examined and regulated within sensitive groundwater recharge areas to ensure that the water quality, quantity, and natural recharge functions of the area are safely maintained."* (p.67)

- The property is not within the Sensitive Aquifer Recharge Area.

#### Economic Development

*Objective: "Increase the commercial/industrial tax base to be at least 35% of the countywide total tax base."* (p. 87)

- It is anticipated that the development of this site for commercial uses would increase the commercial/industrial tax base for the county.

#### Infrastructure

No applicable text.

#### Land Use

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

- The subject property is adjacent to a residential subdivision and other commercial uses.



## **STAFF ASSESSMENT**

The requested conditional use permit allowing a storage yard with variances (allowing trucks not owned or leased by the property owner to be stored on-site and allowing the use of asphalt grindings in lieu of paved surfaces) conflicts with the McHenry County 2030 Future Land Use map, which designates this area as developing with Estate uses. However, the existing zoning, which is B-3 General Business District, already conflicts with the Future Land Use Map designation. The 2030 Comprehensive Plan and its companion document, 2030 and Beyond, provide economic-based policies which can support commercially based development. The property has historically been used for crop production. There are no environmental features, such as, wetlands and floodplains on the subject property. The site is not within the Sensitive Aquifer Recharge Area.

Staff offers the following conditions for consideration:

1. The Conditional Use shall expire ten (10) years from the date of approval by the McHenry County Board.
2. The Conditional Use shall substantially conform to the Site Plan prepared by J. Condon & Associates, Inc. received February 7, 2025, by the Zoning Division.
3. The Conditional Use shall substantially conform to the Landscape plan prepared by J. Davito Design, Inc, Project # 25-012, prepared June 13, 2025.
4. The Conditional Use shall substantially conform to the Signage Plan prepared by J. Condon & Associates, Inc. Project # Sand-24025, dated June 30, 2025.
5. The Conditional Use shall substantially conform to the Lighting Plan prepared by RAB, Project # 258949 dated April 22, 2025.
6. All other federal, state, and local laws shall be met.

### **McHenry County Unified Development Ordinance Section 16.20.040.E**

- E. *Approval Standards for Conditional Use Permits.* No conditional use permit may be granted unless the Zoning Board of Appeals and County Board makes specific written findings that the request meets each of the standards imposed by this section. These standards are as follows:
1. That the petitioner has demonstrated the ability to meet any applicable standards contained in [Chapters 16.56](#) (Use Standards) and [16.60](#) (Site Development Standards).
  2. That the site shall be so situated that the proposed use is compatible with the existing or planned future development of the area.
  3. That the establishment, maintenance, or operation of the conditional use shall not be detrimental to or endanger the public health, safety, morals, comfort or general welfare of the neighboring vicinity.
  4. That the conditional use shall not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted.
  5. That the conditional use shall not substantially diminish and impair property value within the neighborhood.
  6. That adequate utilities, access roads, drainage, and other necessary facilities have been or are being provided.
  7. That adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion and hazard on public streets.
  8. That the conditional use shall, in all other respects, conform to the applicable regulations of the zoning district in which it is located.
  9. That the conditional use is reasonably in the interest of the public welfare.
  10. That adequate measures will be taken to provide protection to groundwater recharge and groundwater quality.

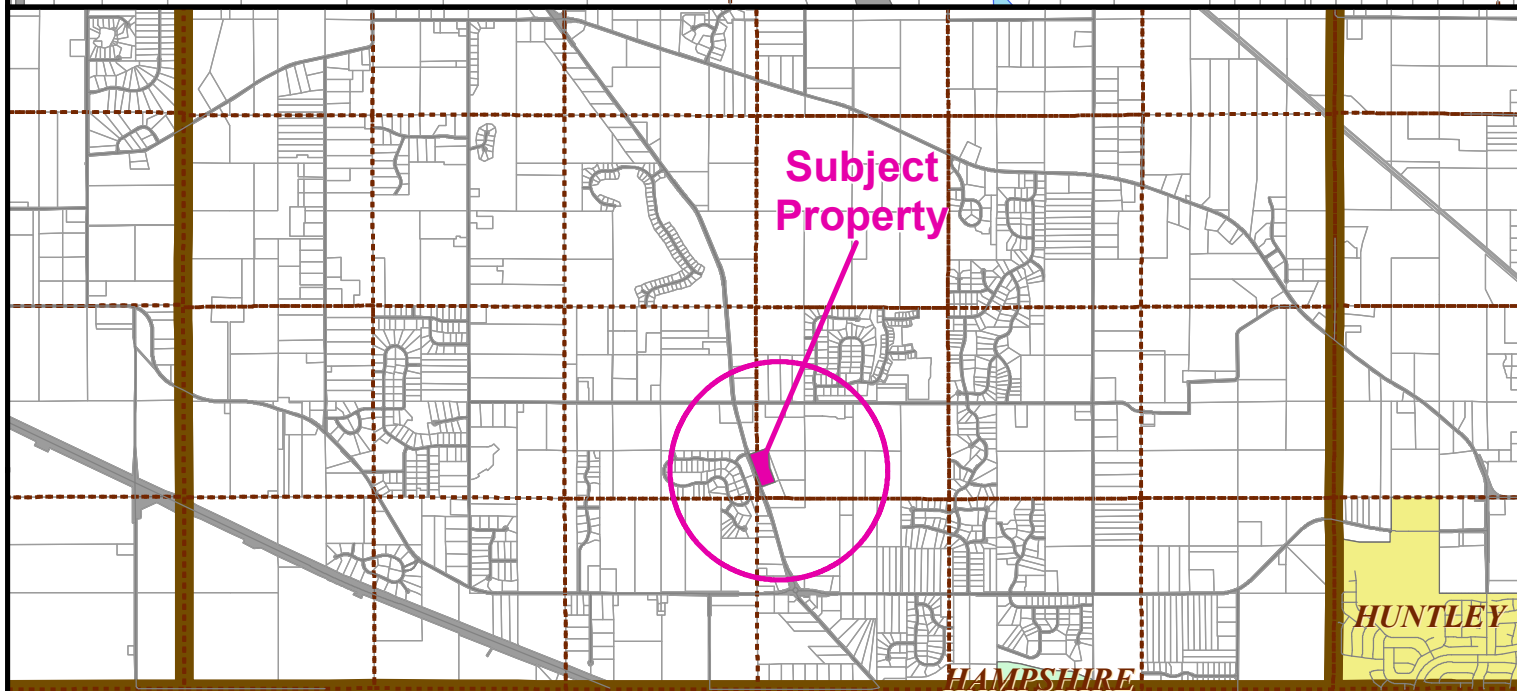
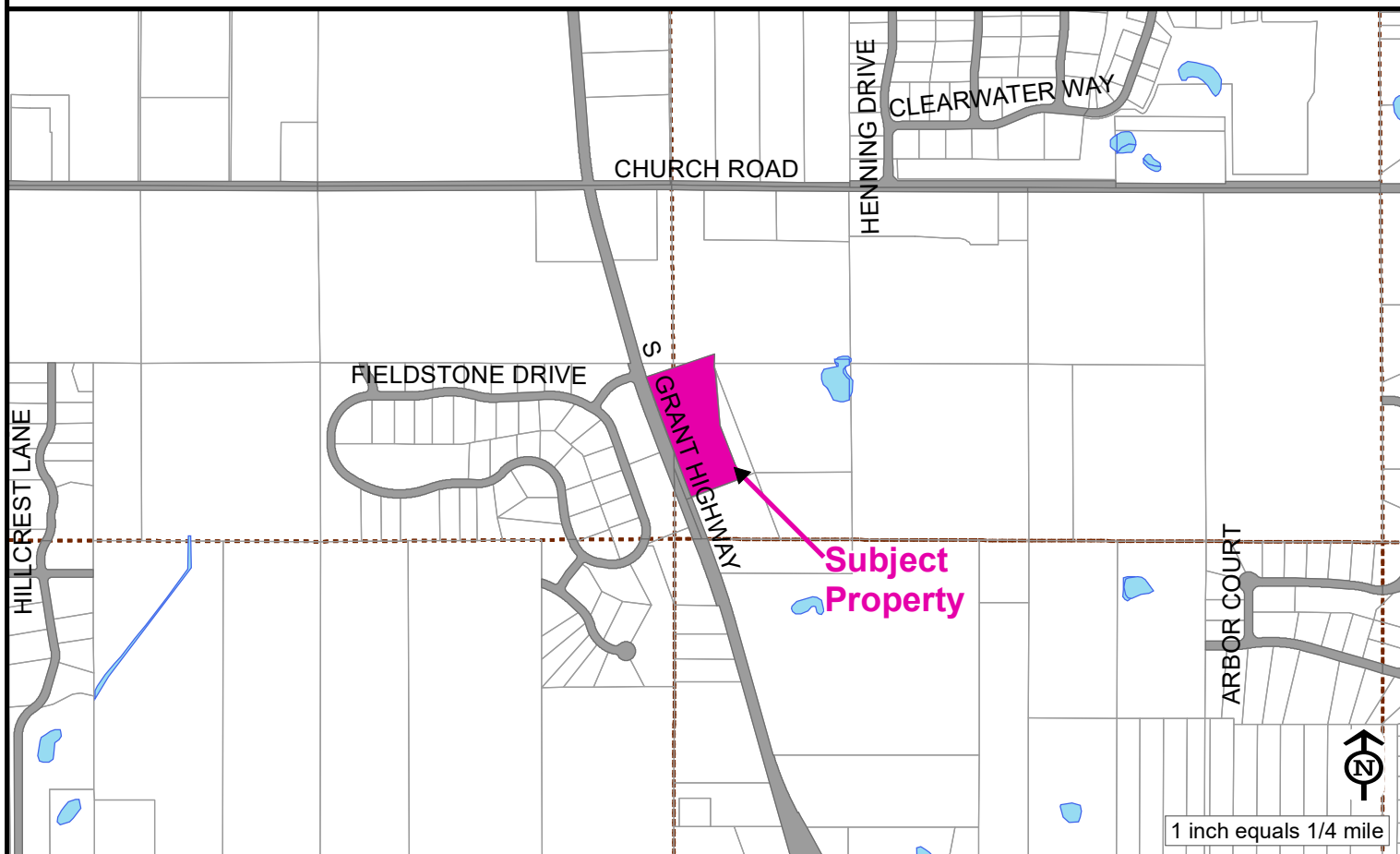
## **Approval Standards for Zoning Variations**

### **(Section 16.20.020 F of the Unified Development Ordinance)**

- F. *Approval Standards for Zoning Variations.* No zoning variation from the provisions of this Ordinance may be granted unless the Zoning Board of Appeals or Hearing Officer and County Board makes specific findings that the request meets each of the standards imposed by this section. These standards are as follows:
1. The particular surroundings, shape, or topographical condition of the specific property involved would result in a particular hardship upon the owner, as distinguished from a mere inconvenience, if the strict letter of the regulations was carried out.
  2. The conditions upon which the application for a variation are based are unique to the property for which the variation is sought and are not generally applicable to other property within the same zoning district.
  3. The purpose of the variation is not based exclusively upon a desire to increase the monetary gain realized from the property.
  4. The alleged difficulty or hardship is caused by the Ordinance and has not been created by any person presently having an interest in the property.
  5. That the granting of the variation will not be detrimental to the public welfare or injurious to other property or improvements in the neighborhood in which the property is located.
  6. That the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the adjacent neighborhood.
  7. That the granting of the variation requested will not confer on the applicant any special privilege that is denied by this Ordinance to other land or structure of the same zoning district.

Report prepared August 7, 2025 by Anna Kurtzman, Sr. Planner – McHenry County Department of Planning & Development





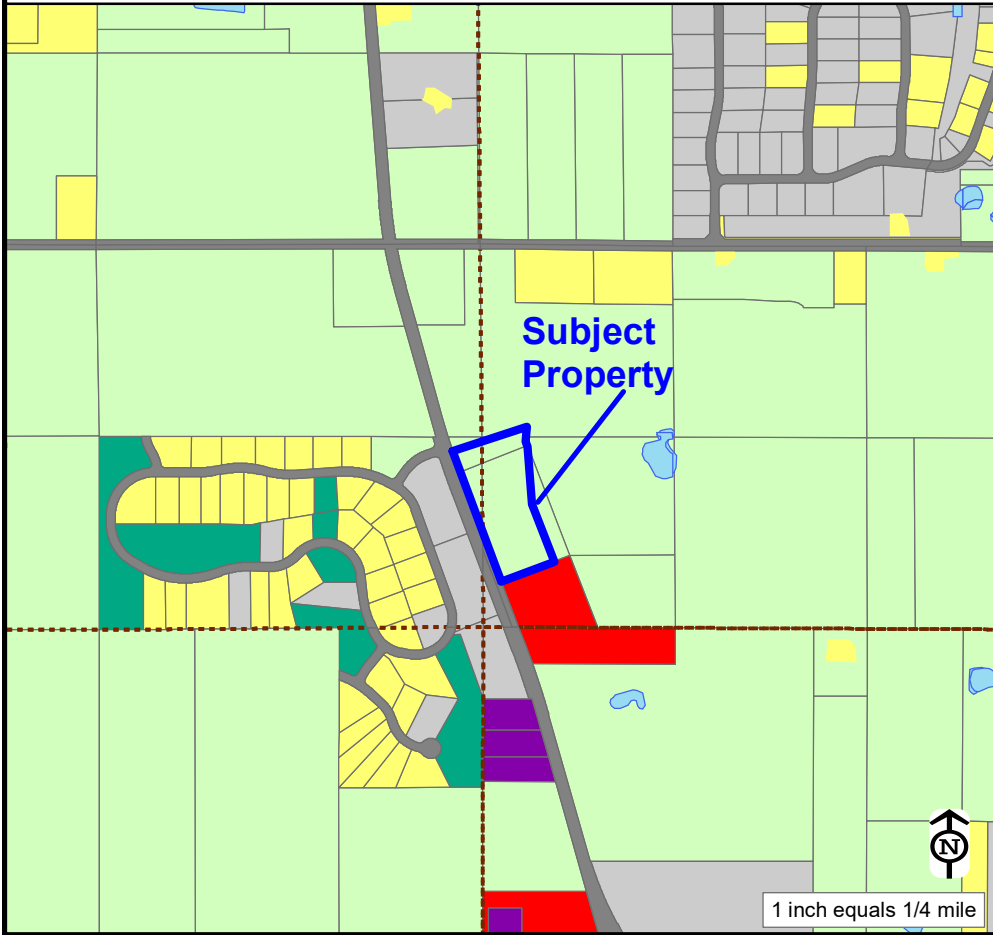
DeKALB  
COUNTY

KANE COUNTY

Source: McHenry County Department of Planning and Development

1 inch equals 1 mile

## Current Land Use Map



### Current Land Use

*Agriculture*

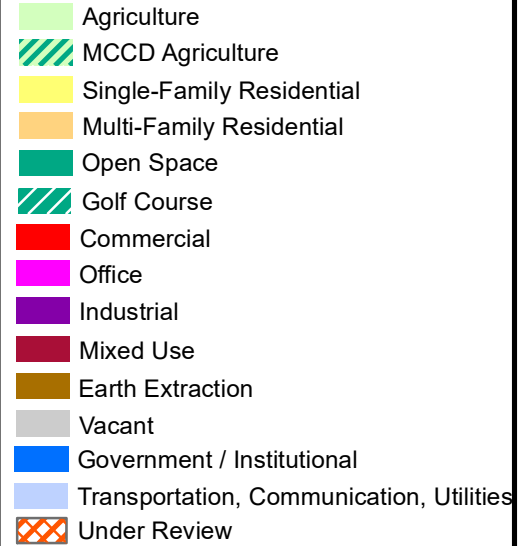
### Adjacent Land Use(s)

North: *Agriculture*

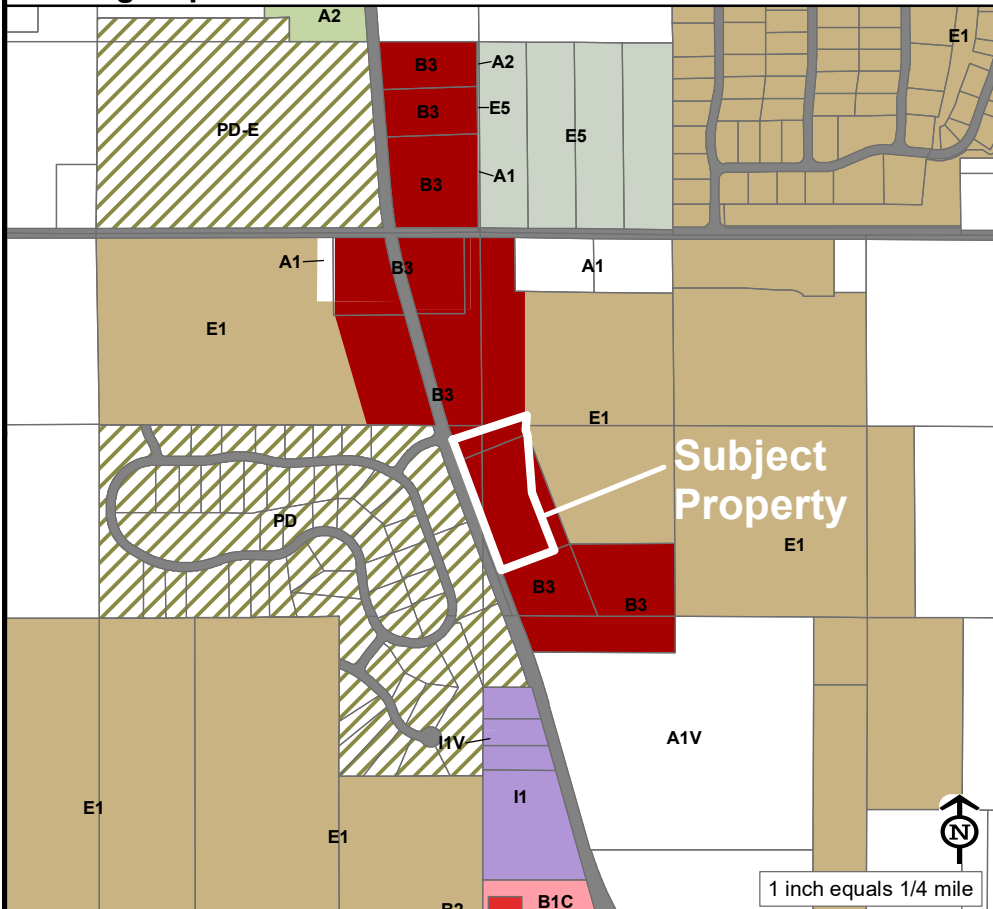
South: *Commercial*

East: *Agriculture*

West: *Vacant*



## Zoning Map



### Current Zoning B-3 General Business

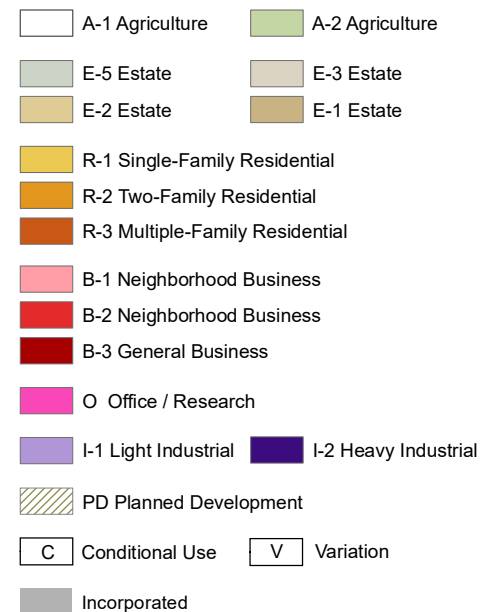
### Adjacent Zoning

North: B-3 General Business

South: B-3 General Business

East: E-1 Estate

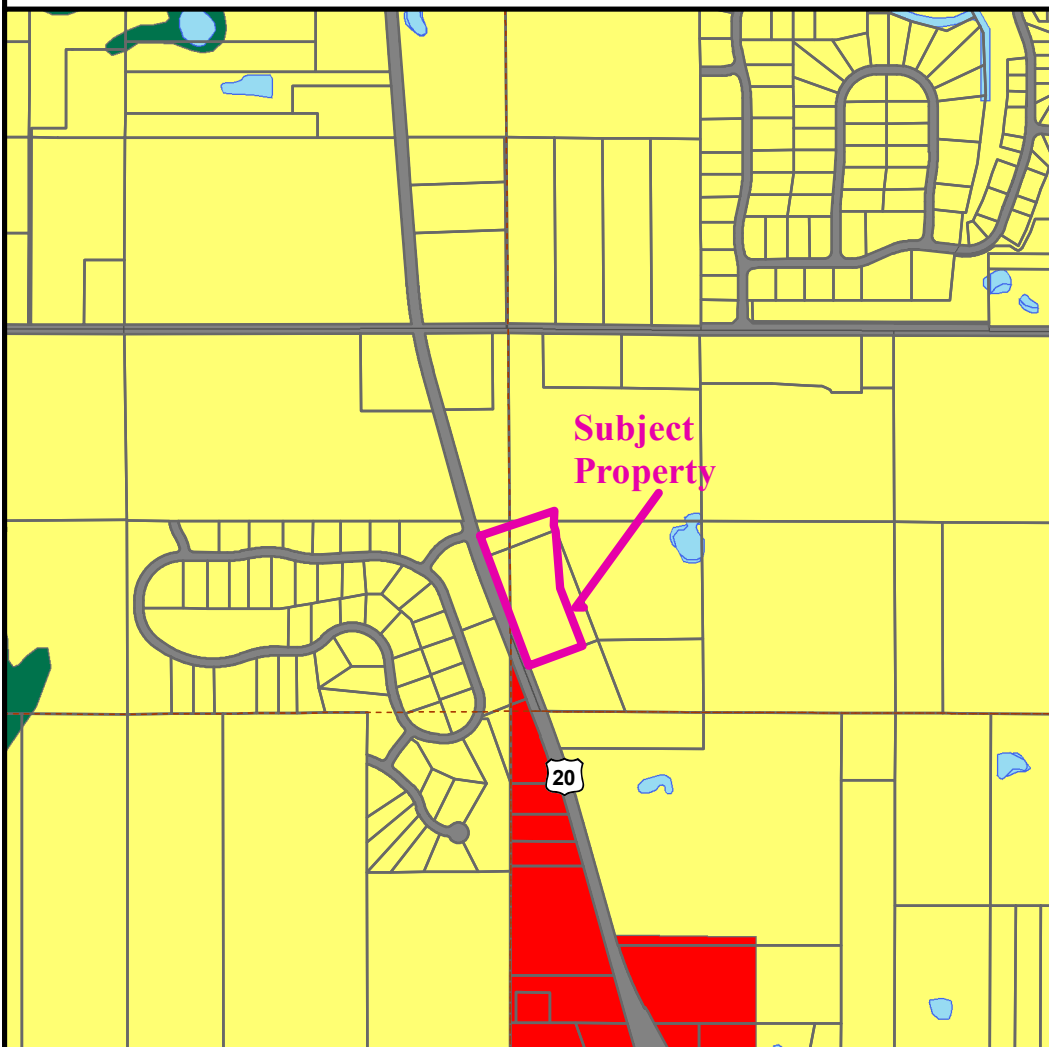
West: PD Planned Development



# 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

Coral Township: Commercial/Business

Hampshire: Estate Residential (0.24 to 0.80 units/ac)

### 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.

#### Sensitive Aquifer Recharge Areas

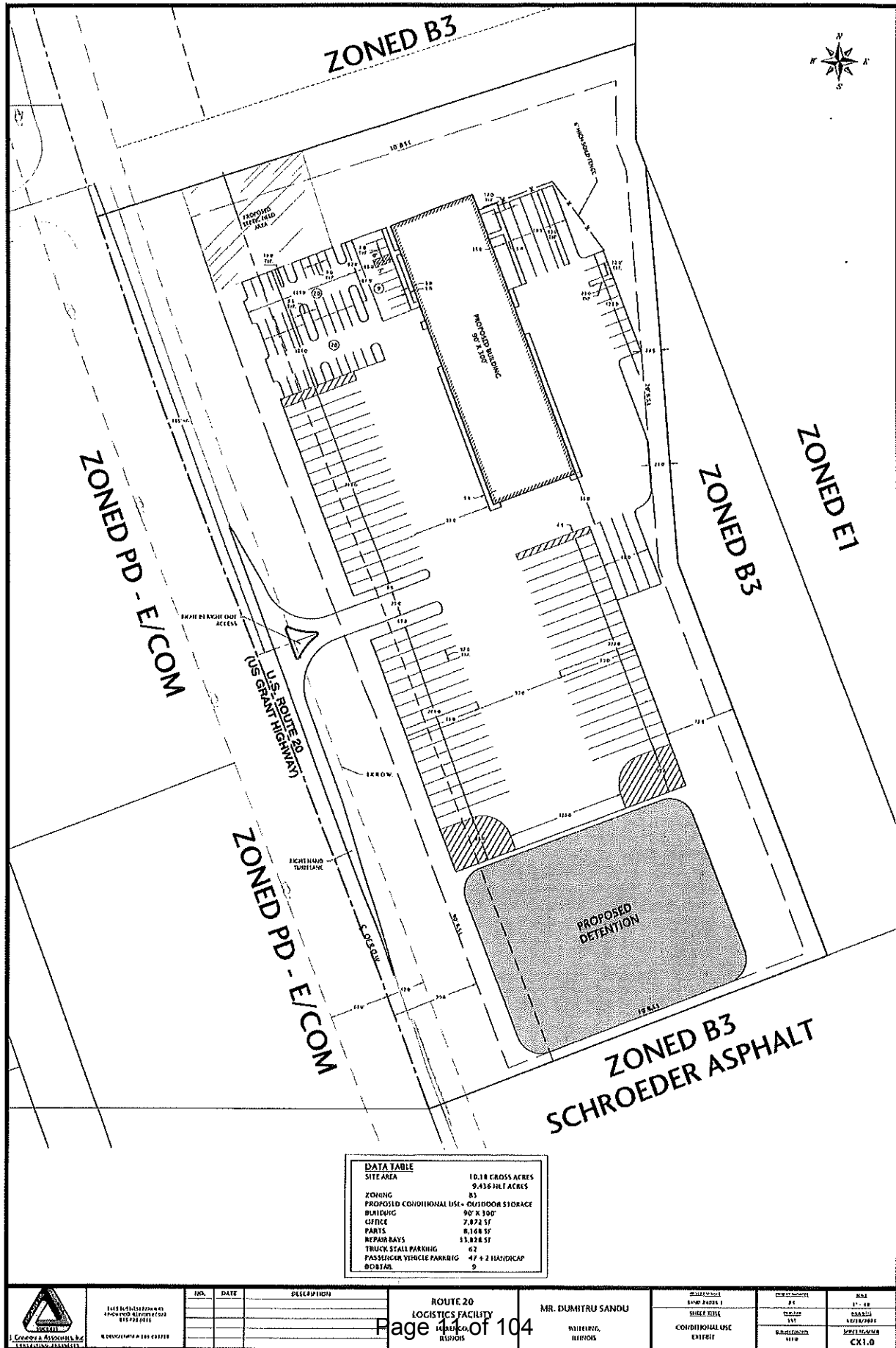
The site is NOT located in a zone with moderate contamination potential.

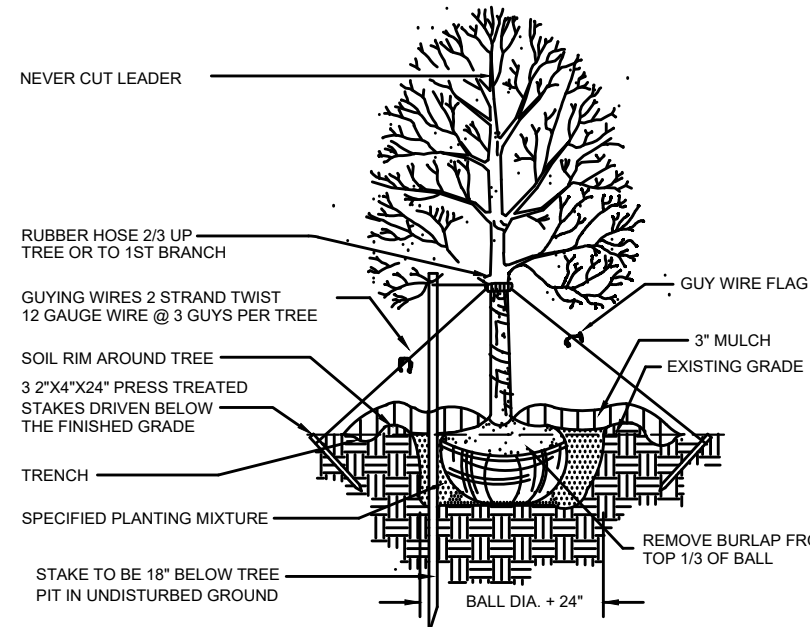
### Sensitive Aquifer Recharge Areas (SARA)



Sensitive Recharge Area



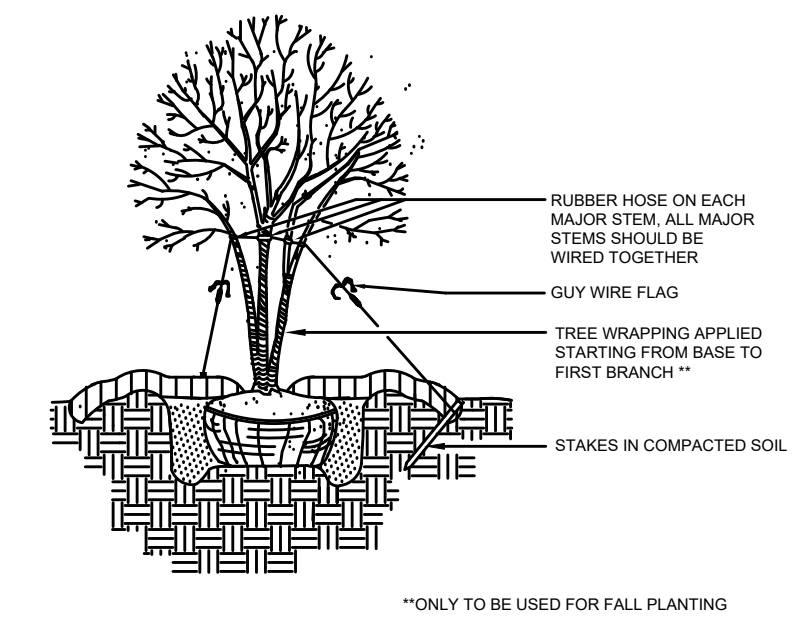




NOTES:  
1. TOP OF ROOT BALL SHALL BE 2"-3" ABOVE FINISH GRADE BEFORE BACKFILLING.  
2. IT IS THE CONTRACTOR'S OPTION TO EITHER STAKE OR GUY TREES.

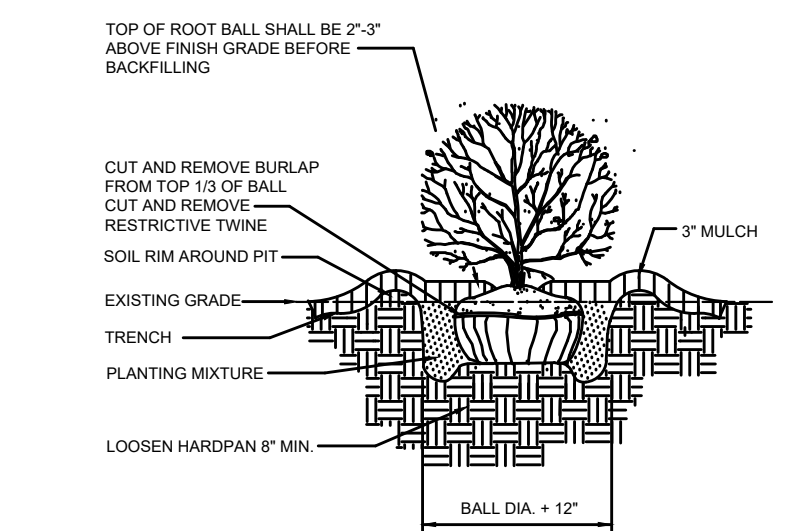
**DETAIL: DECIDUOUS TREE PLANTING**

NOT TO SCALE



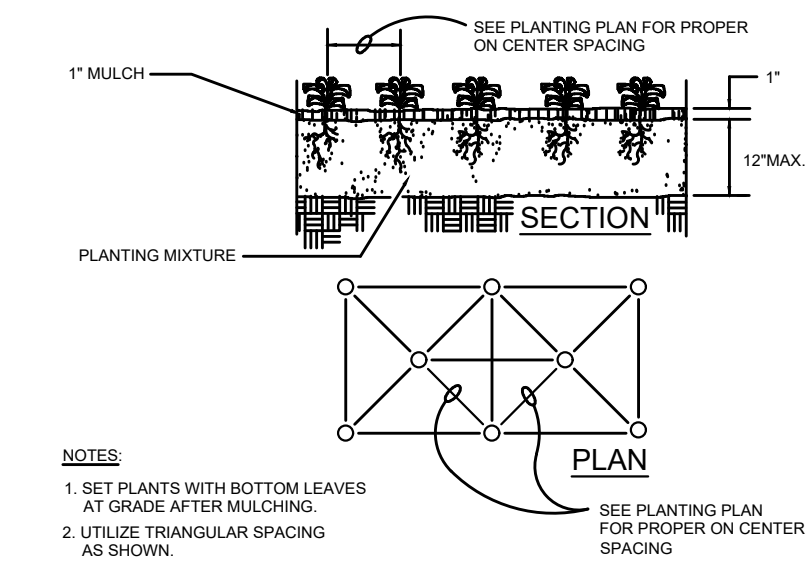
**DETAIL: MULTISTEM TREE STAKING**

NOT TO SCALE



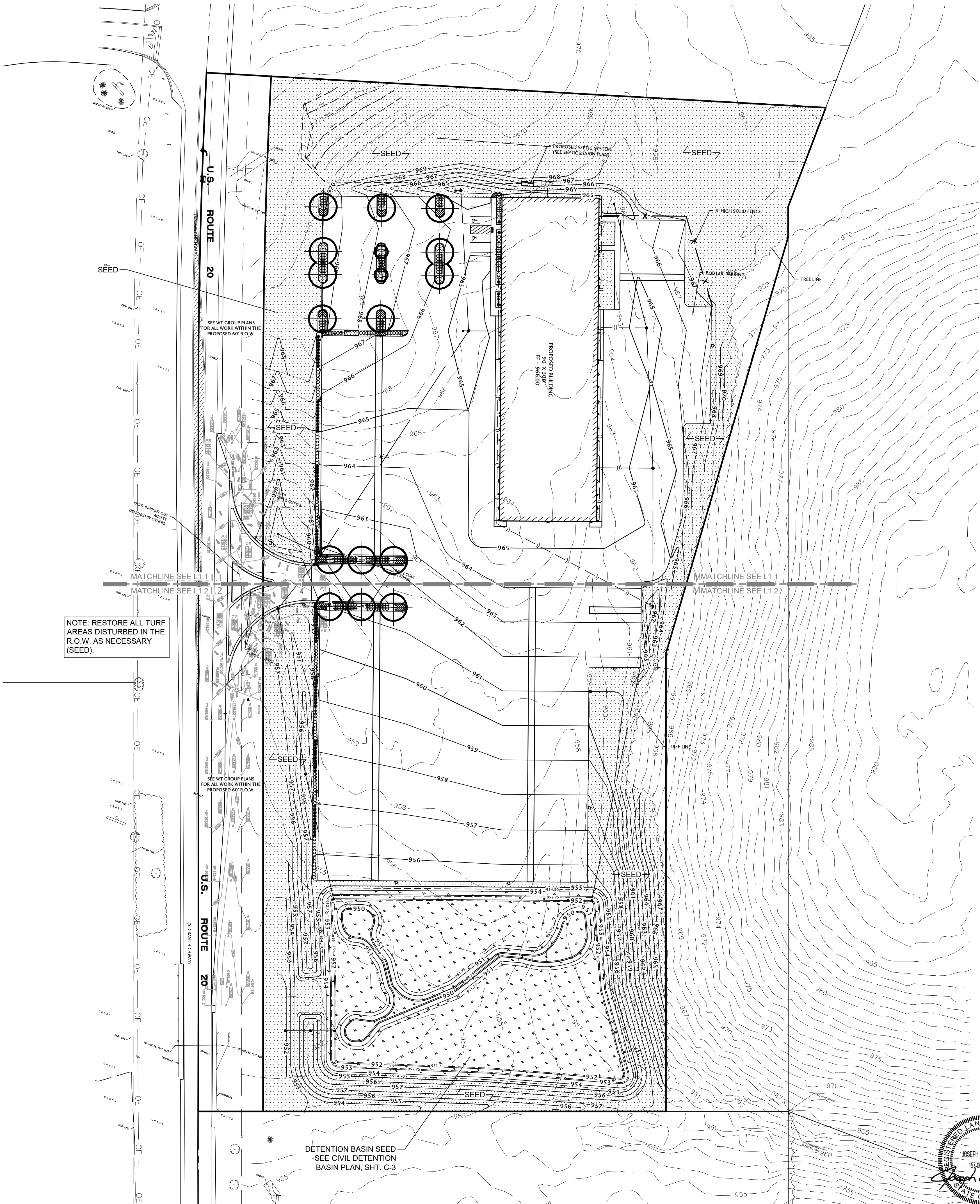
**DETAIL: SHRUB PLANTING**

NOT TO SCALE



**DETAIL: GROUND COVER PLANTING**

NOT TO SCALE



## PROPOSED PLANT SCHEDULE:

SYMBOL	KEY	COMMON/LATIN NAME	SIZE	CONDITION*	SPACING	QUANTITY
[NOTE: ALL PLANT MATERIAL TO BE SELECTED FROM THE BELOW LIST]						
	SHADE TREES					
	BC	BALD CYPRESS TAXODIUM DISTICHUM	3" CAL.	B & B	SPECIMEN	0
	MM	STATE STREET MAPLE ACER MIYABEI 'MORTON'	3" CAL.	B & B	SPECIMEN	0
	RL	REDMOND AMERICAN LINDEN TILIA X EUCLORA	3" CAL.	B & B	SPECIMEN	0
	ORNAMENTAL TREES					
	JL	JAPANESE TREE LILAC SYRINGA RETICULATA	8" HT.	B & B	SPECIMEN	0
	EVERGREEN SHRUBS					
	DY	DENSE YEW TAXUS X MEDIA 'DENSIFORMIS'	24" SPR.	B & B	3" O.C.	0
	KJ	KALLAY JUNIPER JUNIPERUS CHINENSIS 'KALLAY'S COMPACT'	24" SPR.	B & B	3" O.C.	0
	NA	NORTH POLE ARBORVITAE THUJA OCCIDENTALIS	4" HT.	B & B	4.5" O.C.	0
	DECIDUOUS SHRUBS					
	AL	ARONIA LOW SCAPE HEDGER ARONIA MELANOCARPA 'UCCONAM01Z'	18" HT.	B & B	3" O.C.	0
	CB	BLACK CHOKEBERRY ARONIA MELANOCARPA VAR. 'ELATA'	36" HT.	B & B	4.5" O.C.	0
	DK	KODIAK RED DIERVILLA DIERVILLA GZ885411	18" HT.	B & B	3" O.C.	0
	LH	LIMELIGHT HYDRANGEA HYDRANGEA PANICULATA	36" HT.	B & B	4.5" O.C.	0
	GROUNDCOVERS AND PERENNIALS					
	KG	KARL FOERSTER FEATHER REED GRASS CALAMAGROSTIS X ACUTIFLORA	2G.	CONTR.	3" O.C.	0
	PERENNIAL MIX 1"	GOING BANANA DAYLILY / HEMEROCALLIS SPECIES LITTLE LACE RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA 'LITTLE LACE'	1G.	CONTR.	2" O.C.	0
	PM	PERENNIAL MIX 2"	1G.	CONTR.	2" O.C.	0
	SEED	SEEDED LAWN CONTRACTOR'S SUNNY MIX (60% KENTUCKY BLUEGRASS, 40% PERENNIAL RYEGRASS)***	S.Y.	W/BLANKET		

\*IF B & B PLANTS ARE NOT AVAILABLE DUE TO TIME OF SEASON, CONTAINER GROWN PLANTS MAY BE SUBSTITUTED, AS APPROVED BY THE LANDSCAPE ARCHITECT.  
\*\*MIX EQUAL AMOUNTS OF EACH PLANT NOTED INTO EACH PLANTING AREA IN A NATURAL LAYOUT.  
\*\*\*SEED MIX TO BE SUPPLIED BY ARTHUR CLESEN INC. (847) 537-2177 (OR APPROVED EQUAL). INSTALL PER GROWER'S RECOMMENDATIONS.

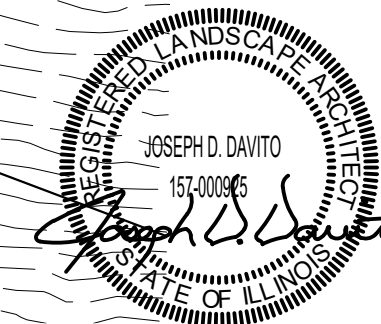
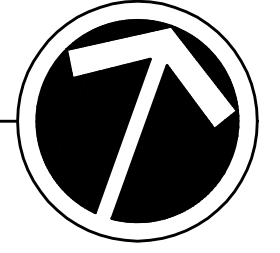
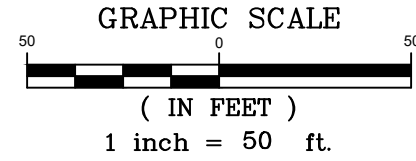
## LANDSCAPE PLAN NOTES:

- ALL PROPOSED SHRUB BEDS AND TREE RINGS TO RECEIVE 3" THC. SHREDDED HARDWOOD MULCH.
- REPAIR ALL EXISTING TURF AREAS DISTURBED DURING CONSTRUCTION (SEED).
- LIMIT OF SEED = PROPERTY LINE (UNLESS OTHERWISE NOTED).
- THE CONTRACTOR SHALL LOCATE THE EXISTENCE OF UTILITIES PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWING. PLANT MATERIAL QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE TO THOSE OF THE PLANT LIST.
- ALL PLANT MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOC. OF NURSEYMEN OR EQUIVALENT. NO "PARK GRADE" MATERIAL SHALL BE ACCEPTED.
- ALL PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS ORIGINAL GRADE BEFORE DIGGING.
- ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK SHALL BE ACCEPTED IF IT IS ROOT BOUND. ALL WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING.
- ALL PLANTINGS SHALL BE WATERED DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. WATER THOROUGHLY TO ENSURE ALL AIR POCKETS ARE REMOVED AROUND ROOT BALL.
- IMPORTED TOPSOIL AND SPREADING BY EXCAVATING CONTRACTOR.
- ALL PROPOSED TREES OUTSIDE PLANTING BED AREAS SHALL RECEIVE A 5" DIA. MULCH RING AROUND TRUNK.
- ALL PLANTS AND STAKES SHALL BE SET PLUMB, UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S OPTION TO STAKE TREES, BUT HIS RESPONSIBILITY TO ASSURE PLANTS REMAIN PLUMB UNTIL END OF GUARANTEE PERIOD. IF STAKING OF TREES IS NOT PERFORMED, REMOVAL OF TOP 1/3 OF BURLAP AND ROPES IS UNNECESSARY (REMOVE ALL NON-BIODEGRADABLE MATERIAL).
- INFORMATION CONTAINED IN "PLAN NOTES" TAKES PRECEDENCE OVER INFORMATION IN "DETAILS".
- VERIFY SITE CONDITIONS AND INFORMATION ON DRAWINGS. PROMPTLY REPORT ANY DISCREPANCIES AND/OR DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLAN. THE OWNER IS NOT RESPONSIBLE FOR UNAUTHORIZED CHANGES OR EXTRA WORK REQUIRED TO CORRECT UNREPORTED DISCREPANCIES.
- ALL PLANTING BED EDGES TO BE CULTIVATED.
- PARKWAY TREES LIMBS TO BE NO LOWER THAN 6' ABOVE GRADE.

NOTES:  
1. FOR ENLARGED PLANTING DETAIL, SEE "ENLARGED LANDSCAPE PLAN", SHTS. L1.1-L1.2.

## PRELIMINARY (OVERALL) LANDSCAPE PLAN

NOTE: ALL BASE INFORMATION PROVIDED BY J. CONDON & ASSOCIATES INC. (815) 728-0068



REVISIONS	
DATE	DESCRIPTION

# ROUTE 20 LOGISTICS FACILITY

CORAL TOWNSHIP, ILLINOIS

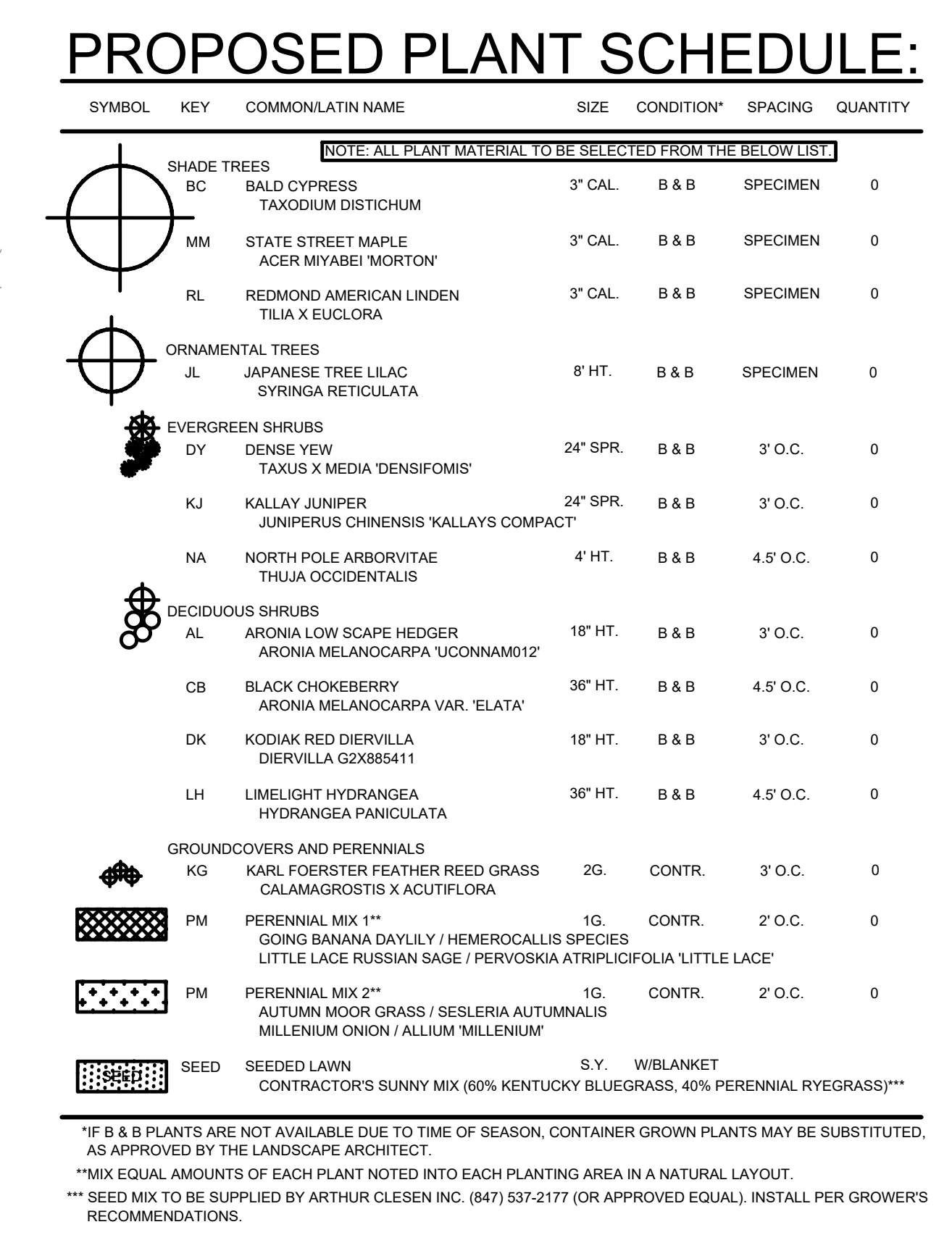
U.S. ROUTE 20

PRELIMINARY (OVERALL) LANDSCAPE PLAN	
SCALE:	1"=50'-0"
DATE:	JUNE 13, 2025
DRAWN BY:	J. DAVITO, PLA
CHECKED BY:	JDD

**J. DAVITO DESIGN, INC.**  
LANDSCAPE ARCHITECTURAL DESIGN  
2235 KANSAS DRIVE  
CORAL TOWNSHIP, ILLINOIS 60002  
(847) 485-6191  
WWW.JDAVITODESIGN.COM

PROJ. NO. 25-012
<b>L1.0</b>





REVISIONS	
DATE	DESCRIPTION

# ROUTE 20 LOGISTICS FACILITY

U.S. ROUTE 20  
CORAL TOWNSHIP, ILLINOIS

SCALE:	1"=30'-0"
DATE:	JUNE 13, 2025
DRAWN BY:	J. DAVITO, PLA
CHECKED BY:	JDD

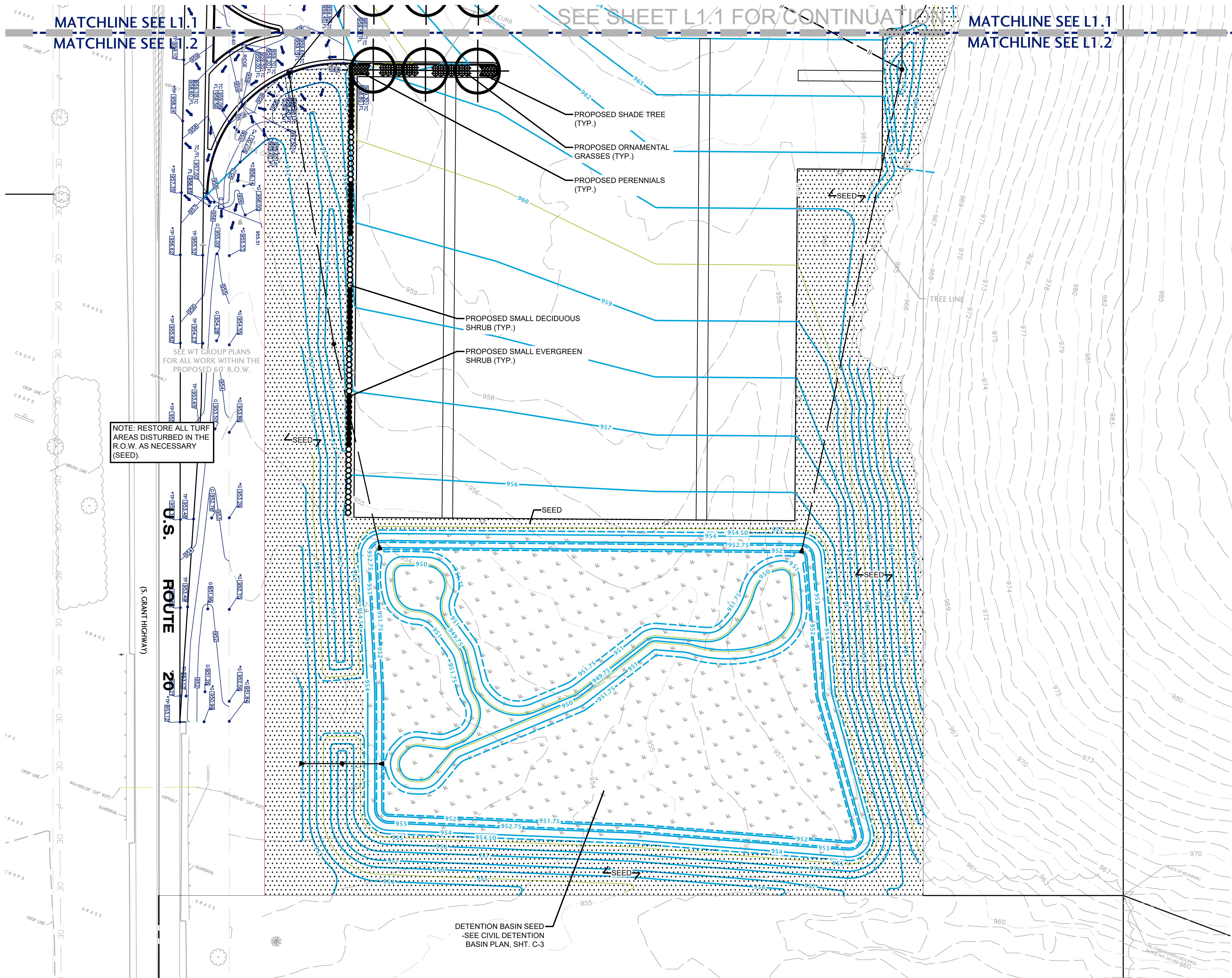


**J. DAVITO** DESIGN, INC.  
LANDSCAPE ARCHITECTURAL DESIGN  
ISLAND LAKE, IL 60042  
2735 KINGSTON DRIVE  
(847) 468-8797  
[WWW.DAVITODESIGN.COM](http://WWW.DAVITODESIGN.COM)

PROJ. NO. 25-012

**L1.1**

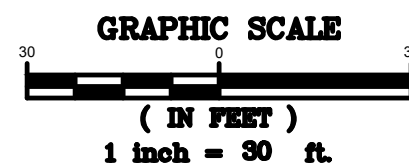




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EVERGREEN SHRUBS						
DY		DENSE YEW TAXUS X MEDIA 'DENSIFORMIS'	24" SPR.	B & B	3' O.C.	0
KJ		KALLAY JUNIPER JUNIPERUS CHINENSIS 'KALLAYS COMPACT'	24" SPR.	B & B	3' O.C.	0
NA		NORTH POLE ARBORVITAE THUJA OCCIDENTALIS	4" HT.	B & B	4.5' O.C.	0
DECIDUOUS SHRUBS						
AL		ARONIA LOW SCAPE HEDGER ARONIA MELANOCARPA 'UCONNAM012'	18" HT.	B & B	3' O.C.	0
CB		BLACK CHOKEBERRY ARONIA MELANOCARPA VAR. 'ELATA'	36" HT.	B & B	4.5' O.C.	0
DK		KODIAK RED DIERVILLA DIERVILLA G2X885411	18" HT.	B & B	3' O.C.	0
LH		LIMELIGHT HYDRANGEA HYDRANGEA PANICULATA	36" HT.	B & B	4.5' O.C.	0
GROUNDCOVERS AND PERENNIALS						
KG		KARL FOERSTER FEATHER REED GRASS CALAMAGROSTIS X ACUTIFLORA	2G.	CONTR.	3' O.C.	0
PM		PERENNIAL MIX 1** GOING BANANA DAYLILY / HEMEROCALLIS SPECIES LITTLE LACE RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA 'LITTLE LACE'	1G.	CONTR.	2' O.C.	0
PM		PERENNIAL MIX 2** AUTUMN MOOR GRASS / SESLERIA AUTUMNALIS MILLENNIUM ONION / ALLIUM 'MILLENNIUM'	1G.	CONTR.	2' O.C.	0
SEED		SEEDED LAWN CONTRACTOR'S SUNNY MIX (60% KENTUCKY BLUEGRASS, 40% PERENNIAL RYEGRASS)***	S.Y.	W/BLANKET		

\*IF B & B PLANTS ARE NOT AVAILABLE DUE TO TIME OF SEASON, CONTAINER GROWN PLANTS MAY BE SUBSTITUTED, AS APPROVED BY THE LANDSCAPE ARCHITECT.  
\*\*MIX EQUAL AMOUNTS OF EACH PLANT NOTED INTO EACH PLANTING AREA IN A NATURAL LAYOUT.  
\*\*\*SEED MIX TO BE SUPPLIED BY ARTHUR CLESEN INC. (847) 537-2177 (OR APPROVED EQUAL). INSTALL PER GROWER'S RECOMMENDATIONS.



ENLARGED (SOUTH) LANDSCAPE PLAN

NOTE: ALL BASE INFORMATION PROVIDED BY J. CONDON & ASSOCIATES INC. (815) 728-0068

REVISIONS	
DATE	DESCRIPTION

ENLARGED (SOUTH) LANDSCAPE PLAN

J. DAVITO DESIGN, INC. LANDSCAPE ARCHITECTURAL DESIGN 2235 HUNSTON DRIVE J. DAVITO, PLA (847) 488-6131

ROUTE 20 LOGISTICS FACILITY CORAL TOWNSHIP, ILLINOIS U.S. ROUTE 20

SCALE: 1"=30'-0" DATE: JUNE 13, 2025 DRAWN BY: J. DAVITO, PLA CHECKED BY: JDD

J. DAVITO DESIGN, INC. COPYRIGHT © 2025

PROJ. NO. 25-012

L1.2










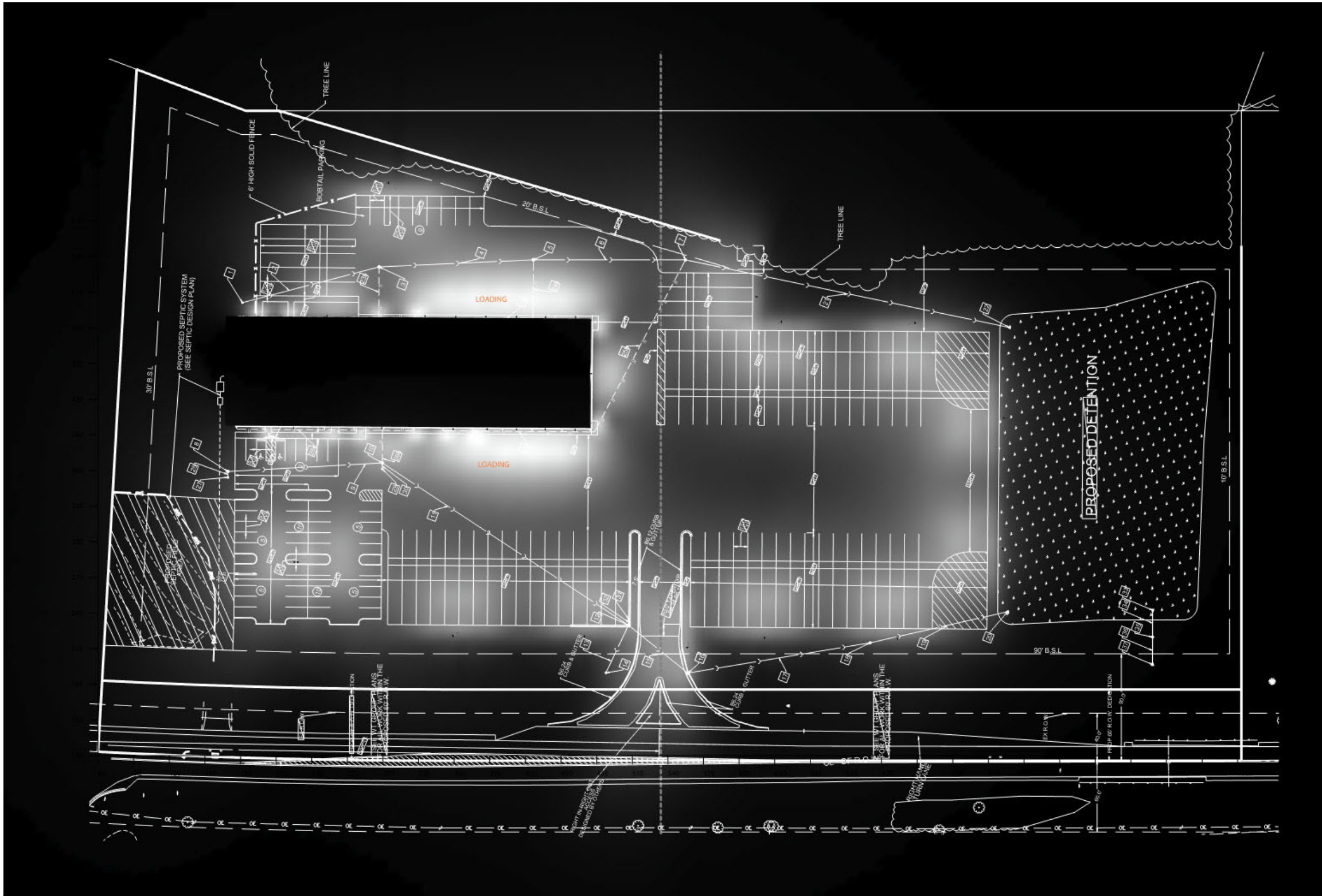


Calculation Summary											
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description	PtSpcLr	PtSpcTb	Meter Type
LOADING AREA	Illuminance	Fc	7.12	9.9	2.9	2.46	3.41	READINGS TAKEN AT 0'-0" AFG	10	10	Horizontal
PARKING LOT	Illuminance	Fc	1.79	5.4	0.2	8.95	27.00	READINGS TAKEN AT 0'-0" AFG	10	10	Horizontal
PROPERTY LINE	Illuminance	Fc	0.06	2.2	0.0	N.A.	N.A.	READINGS TAKEN AT 0'-0" AFG	10	N.A.	Horizontal
WALKWAYS	Illuminance	Fc	4.40	9.5	0.5	8.80	19.00	READINGS TAKEN AT 0'-0" AFG	10	N.A.	Horizontal

Luminaire Tag Summary	
Tag	Qty
A3	2
A4	11
AWM	15
B2	12

Luminaire Schedule												
All quotes/orders generated from this layout must be forwarded to the Local Rep Agency												
Symbol	Qty	Tag	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Description	Lum. Watts	Arr. Watts	Total Watts	BUG Rating
	2	A3	ALEDM3TN @150W	Single	19672	19672	1.000	TYPE III POLE MOUNT	149.1	149.1	298.2	B2-U0-G3
	9	A4	ALEDM4TN @150W	Single	19644	19644	1.000	TYPE IV POLE MOUNT	146.8	146.8	1321.2	B2-U0-G4
	1	A4	ALEDM4TN @150W x 2	Back-Back	19644	39288	1.000	TYPE IV POLE MOUNT	146.8	293.6	293.6	B2-U0-G4
	15	AWM	ALEDM4TWMN @78W	Single	10750	10750	1.000	TYPE IV WALL MOUNT	74.8	74.8	1122	B1-U0-G3
	12	B2	SLIMXS @12W_4K	Single	1576	1576	1.000	WALLPACK	11.5	11.5	138	B1-U0-G0

Expanded Luminaire Location Summary						
LumNo	Tag	X	Y	MTG HT	Orient	Tilt
1	A3	556.8	216.3	33	180	0
2	A3	312	596.1	33	270	0
3	A4	364.5	224.8	33	90	0
4	A4	471.9	224.3	33	90	0
5	A4	618.6	223.1	33	90	0
6	A4	727.3	222.2	33	90	0
7	A4	741.5	482	33	270	0
8	A4	632.4	482.9	33	270	0
9	A4	613.3	502.2	33	180	0
10	A4	815.1	403.4	33	180	0
11	A4	814.3	297	33	180	0
12	A4	236.8	285.9	33	0	0
12	A4	236.4	285.9	33	180	0
13	AWM	463.8	485.7	21.5	90	0
14	AWM	439	485.7	21.5	90	0
15	AWM	414.9	485.9	21.5	90	0
16	AWM	389.8	486	21.5	90	0
17	AWM	364.9	486	21.5	90	0
18	AWM	339.7	486.4	21.5	90	0
19	AWM	362.8	395.7	21.5	270	0
20	AWM	390.8	395.6	21.5	270	0
21	AWM	415	395.4	21.5	270	0
22	AWM	463.4	395	21.5	270	0
23	AWM	438.8	395.4	21.5	270	0
24	AWM	230.9	396.7	20	270	0
25	AWM	303.9	396.7	21.5	270	0
26	AWM	475.4	440.4	20	0	0
27	AWM	258.7	486.6	21.5	90	0
28	B2	195.8	487.3	10	90	0
29	B2	222.4	487.1	10	90	0
30	B2	296.1	486.9	10	90	0
31	B2	328.8	486.6	10	90	0
32	B2	281.3	395.8	10	270	0
33	B2	258.3	396.1	10	270	0
34	B2	203.4	396.5	10	270	0
35	B2	353.3	395.9	10	270	0
36	B2	328.1	396.1	10	270	0
37	B2	378.4	395.8	10	270	0
38	B2	476.9	480.4	10	0	0
39	B2	476	399.8	10	0	0
Total Quantity: 40						



NOTES:

\* The light loss factor (LLF) is a product of many variables. RAB's standard is to use the initial 1.0 LLF in accordance with most municipal lighting ordinance light trespass requirements, unless otherwise noted.

\* Illumination values shown (in footcandles) are the predicted results for planes of calculation either horizontal, vertical or inclined as designated in the calculation summary. Meter orientation is normal to the plane of calculation.

\* The calculated results of this lighting simulation represent an anticipated prediction of system performance. Actual measured results may vary from the anticipated performance and are subject to means and methods which are beyond the control of RAB Lighting Inc.

\* Mounting height determination is job site specific, our lighting simulations assume a mounting height (insertion point of the luminaire symbol) to be taken at the top of the symbol for ceiling mounted luminaires and at the bottom of the symbol for all other luminaire mounting configurations.

\* RAB disclaims all responsibility for the suitability of existing or proposed poles and bases to support proposed fixtures. This is the owner's, installer's and/or end-user's responsibility based on the weight and effective projected area ("EPA") of the proposed fixtures and the owner's site and soil conditions, wind zone, and many other factors. A professional engineer licensed to practice in the state the site is located should be engaged to assist in this determination.

\* The landscape material shown hereon is conceptual and is not intended to be an accurate representation of any particular plant, shrub, bush, or tree, as these materials are living objects, and subject to constant change. The conceptual objects shown are for illustrative purposes only. The actual illumination values measured in the field will vary.

\* Photometric model elements such as buildings, rooms, plants, furnishings or any architectural details which impact the dispersion of light must be detailed by the customer documents for inclusion in the RAB Lighting Design. The owner/contractor/customer/end-user must provide accurate and complete construction drawings that reflect what will be the final construction RAB is not responsible for any inaccuracies caused by incomplete, inaccurate, or outdated information provided by the owner/contractor/customer/end-user.

\* RAB Lighting Inc. luminaire and product designs are protected under U.S. and International intellectual property laws. Patents issued or pending may apply. Please see [www.rablighting.com/ip](http://www.rablighting.com/ip).

\* The Lighting Analysis, EZLayout, Energy Analysis and/or Visual Simulation ("Lighting Design") provided by RAB Lighting Inc. ("RAB") represents an anticipated prediction of lighting system performance based upon design parameters and information supplied by others. These design parameters and information provided by others have not been field verified by RAB and therefore actual measured results may vary from the actual field conditions. RAB recommends that design parameters and other information be field verified to reduce variation.

\* RAB does not warranty, either implied or stated, actual measured light levels or energy consumption levels as compared to those illustrated by the Lighting Design.

\* RAB does not warranty, either implied or stated, nor represents the appropriateness, completeness or suitability of the Lighting Design as compliant with any applicable regulatory code requirements with the exception of those expressly stated on drawings created and submitted by RAB. The Lighting Design is issued, in whole or in part, as advisory documents for informational and convenience purposes only, is not intended for construction nor as a part of a project's construction documentation package and should not be relied upon for any purpose.

\* Immediately prior to any party ordering RAB products used in the Lighting Design, the ordering party must verify that the lumen output of the fixtures being ordered (as shown on RAB's website) match the lumen output shown in the Lighting Design. Occasionally, Lighting Designs previously provided use fixtures that are then updated prior to an order and such updates could change the lumen output of the fixture. This in turn, could impact the installed lighting performance that differs from the Lighting Design.

PLOT TO 22"X34"PAGE

[illegible]

Prepared For: Casey Electric Sales, Inc. 1001 Industrial Drive Beasenville, IL 60106 Tel: 630-860-3600	Job Name: Route 20 Logistics Facility	Scale: as noted	PROJECT # 25949
	Lighting Layout Version B	Date: 4/22/2025	CASE # 1604091
		Filename: Route 20 Logistics Facility 1604091 B.AGI	
		Drawn By: dsantiago	

**RAB®**  
408 W 14th Street, New York, NY 10014  
888 722-1000 • [rablighting.com](http://rablighting.com)





Color: Bronze

Weight: 16.5 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

Type	Constant Current
120V	1.25A
208V	0.73A
240V	0.63A
277V	0.55A
Input Watts	76/92.8/149.1W

LED Info

Watts	150W
Color Temp	4000K (Neutral)
Color Accuracy	84/84/82 CRI
L70 Lifespan	100,000 Hours
Lumens	10765/12930/19672 lm
Efficacy	141.6/139.4/131.9 lm/W

Technical Specifications

Field Adjustability

Field Adjustable (Wattage):

Field adjustable light output in 3 discrete steps:  
Medium Housing: 150W/90W/78W (factory default 150W)

Compliance

UL Listed:

Suitable for wet locations

IP Rating:

Ingress protection rating of IP66 for dust and water

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

Trade Agreements Act Compliant:

This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.  
DLC Product Code: S-HDTJUG

LED Characteristics

LEDs:

Long-life, high-efficacy, discrete, surface-mount LEDs

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2017.

Electrical

Driver:

78W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.65A, 208V: 0.38A, 240V: 0.33A, 277V: 0.29A

90W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.75A, 208V: 0.44A, 240V: 0.38A, 277V: 0.33A

150W: Constant Current, Non-Class 2, 120-277V, 50/60 Hz, 120V: 1.25A, 208V: 0.73A, 240V: 0.63A, 277V: 0.55A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

4.15% at 120V, 8.72% at 277V

Power Factor:

100% at 120V, 95.9% at 277V

Surge Protection:

Line to Line: 10kV  
Line to Ground: 6kV

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Wattage Equivalency:

Equivalent to 400W Metal Halide

Construction

IES Classification:

The Type III distribution is meant to be located near the side of an area, projecting the light outward to fill the area. Ideal for roadways, general parking areas, lighting applications and where a large pool of light is required.

## Technical Specifications (continued)

### Cold Weather Starting:

The minimum starting temperature is -40°C (-40°F)

### Ambient Temperature :

Max Power Temp Rating: 40°C (104°F)

Middle Power Temp Rating: 52°C (125°F)

Low Power Temp Rating: 54°C (130°F)

### Housing:

Die-cast aluminum

### Lens:

Polycarbonate lens

### Reflector:

Aluminum reflector with white polycarbonate

### Vibration Rating:

3G vibration rating per ANSI C136.31

### Effective Projected Area:

1 Fixture: 0.37

2 Fixtures at 90°: 0.59

2 Fixtures at 180°: 0.74

3 Fixtures at 90°: 0.96

4 Fixtures at 90°: 0.96

### Gaskets:

High-temperature silicone gaskets

### Finish:

Formulated for high durability and long-lasting color

### Green Technology:

Mercury and UV free. RoHS-compliant components.

## Installation

### Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 3" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease.

## Optical

### Bug Rating:

150W: B2 U0 G3

90W: B2 U0 G2

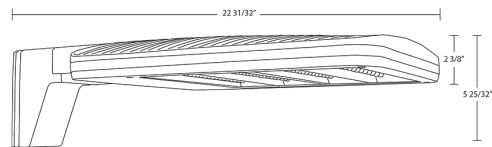
78W: B1 U0 G2

## Other

### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of ten (10) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

Dimensions



Features

- 0-10V dimmable standard
- IP66 Rated
- 100,000-Hour LED lifespan
- 10-Year, No-Compromise Warranty

Ordering Matrix

Family	Housing Size	Distribution	Mounting	Color Temp	Finish	Driver	Options
ALED	M	3T		N			
	M = Medium (150W/90W/78W) L = Large (260W/220W/170W) XL = Extra Large (385W/345W/300W) S = Small (80W/60W/40W)	2T = Type II 3T = Type III 4T = Type IV 5T = Type V AT = Auto Dealership Optic	Blank = Universal Pole Mount SF = Slipfitter WM = Wall Mount	Blank = 5000K Cool Y = 3000K Warm <sup>1</sup> N = 4000K Neutral	Blank = Bronze W = White B = Black	Blank = 120-277V, 0-10V Dimming /480 = 480V, 0-10V Dimming	Blank = No Option /7PR = 7 Pin Twistlock Receptacle /WS2 = Wattstopper, 20ft lens /WS4 = Wattstopper, 40ft lens <sup>3</sup>

<sup>1</sup> Dark sky approved in 3000K, available only on Small and Medium fixtures

<sup>2</sup> 480V available only on Medium, Large & Extra Large fixtures

<sup>3</sup> Wattstopper option available only on Large & Extra Large fixtures



Color: Bronze

Weight: 16.5 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

Type	Constant Current
120V	1.25A
208V	0.73A
240V	0.63A
277V	0.55A
Input Watts	74.8/91.3/146.8W

LED Info

Watts	150W
Color Temp	4000K (Neutral)
Color Accuracy	84/84/82 CRI
L70 Lifespan	100,000 Hours
Lumens	10750/12911/19644 lm
Efficacy	143.7/141.4/133.9 lm/W

Technical Specifications

Field Adjustability

Field Adjustable (Wattage):

Field adjustable light output in 3 discrete steps:  
Medium Housing: 150W/90W/78W (factory default 150W)

Compliance

UL Listed:

Suitable for wet locations

IP Rating:

Ingress protection rating of IP66 for dust and water

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

Trade Agreements Act Compliant:

This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.  
DLC Product Code: S-4MLOS8

LED Characteristics

LEDs:

Long-life, high-efficacy, discrete, surface-mount LEDs

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2017.

Electrical

Driver:

78W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.65A, 208V: 0.38A, 240V: 0.33A, 277V: 0.29A

90W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.75A, 208V: 0.44A, 240V: 0.38A, 277V: 0.33A

150W: Constant Current, Non-Class 2, 120-277V, 50/60 Hz, 120V: 1.25A, 208V: 0.73A, 240V: 0.63A, 277V: 0.55A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

3.45% at 120V, 8.26% at 277V

Power Factor:

100% at 120V, 95.6% at 277V

Surge Protection:

Line to Line: 10kV  
Line to Ground: 6kV

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Wattage Equivalency:

Equivalent to 400W Metal Halide

Construction

IES Classification:

The Type IV distribution is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.



## Technical Specifications (continued)

### Cold Weather Starting:

The minimum starting temperature is -40°C (-40°F)

### Ambient Temperature :

Max Power Temp Rating: 40°C (104°F)

Middle Power Temp Rating: 52°C (125°F)

Low Power Temp Rating: 54°C (130°F)

### Housing:

Die-cast aluminum

### Lens:

Polycarbonate lens

### Reflector:

Aluminum reflector with white polycarbonate

### Vibration Rating:

3G vibration rating per ANSI C136.31

### Effective Projected Area:

1 Fixture: 0.37

2 Fixtures at 90°: 0.59

2 Fixtures at 180°: 0.74

3 Fixtures at 90°: 0.96

4 Fixtures at 90°: 0.96

### Gaskets:

High-temperature silicone gaskets

### Finish:

Formulated for high durability and long-lasting color

### Green Technology:

Mercury and UV free. RoHS-compliant components.

## Installation

### Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 3" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease.

## Optical

### Bug Rating:

150W: B2 U0 G4

90W: B1 U0 G3

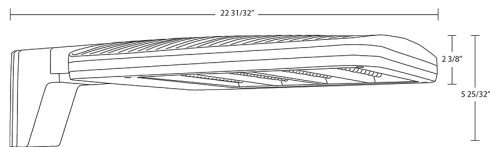
78W: B1 U0 G3

## Other

### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of ten (10) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

Dimensions



Features

- 0-10V dimmable standard
- IP66 Rated
- 100,000-Hour LED lifespan
- 10-Year, No-Compromise Warranty

Ordering Matrix

Family	Housing Size	Distribution	Mounting	Color Temp	Finish	Driver	Options
ALED	M	4T		N			
	M = Medium (150W/90W/78W) L = Large (260W/220W/170W) XL = Extra Large (385W/345W/300W) S = Small (80W/60W/40W)	2T = Type II 3T = Type III 4T = Type IV 5T = Type V AT = Auto Dealership Optic	Blank = Universal Pole Mount SF = Slipfitter WM = Wall Mount	Blank = 5000K Cool Y = 3000K Warm <sup>1</sup> N = 4000K Neutral	Blank = Bronze W = White B = Black	Blank = 120-277V, 0-10V Dimming /480 = 480V, 0-10V Dimming	Blank = No Option /7PR = 7 Pin Twistlock Receptacle /WS2 = Wattstopper, 20ft lens /WS4 = Wattstopper, 40ft lens <sup>3</sup>

<sup>1</sup> Dark sky approved in 3000K, available only on Small and Medium fixtures

<sup>2</sup> 480V available only on Medium, Large & Extra Large fixtures

<sup>3</sup> Wattstopper option available only on Large & Extra Large fixtures



Color: Bronze

Weight: 334.9 lbs

Project:

Type:

Prepared By:

Date:

Technical Specifications

Compliance

CSA Listed:

Suitable for wet locations

Performance

Description:

Steel pole 5" round 7 gauge 30 foot drilled two sides square base

Construction

Shaft:

46,000 p.s.i. minimum yield.

Hand Holes:

Reinforced with grounding lug and removable cover

Base Plates:

36,000 p.s.i. minimum yield.

Color:

Bronze powder coating

Height:

30 ft

Gauge:

7

Wall Thickness:

3/16"

Shaft Size:

5"

Anchor Bolt Templates:

WARNING Template must be printed on 12" x 18" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available [online](#).

Max EPA's/Max Weights:

70MPH 11.8 ft/380 lb.  
80MPH 7.6 ft/360 lb.  
90MPH 4.7 ft/310 lb.  
100MPH 2.6 ft/290 lb.  
110MPH 1.1 ft/270 lb

Accessories:

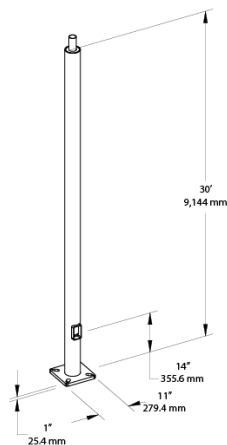
Base/Cap: [BCK-R5](#)  
Anchor Bolts: [BOLT5-8](#)

Other

Terms of Sale:

Pole Terms of Sale is available [online](#).

Dimensions



Features

- Designed for ground mounting
- Heavy duty TGIC polyester coating
- Reinforced hand holes with grounding lug and removable cover for easy wiring access
- Pole caps, base covers & bolts are sold separately
- Custom manufactured for each application

Ordering Matrix

Family	Shape	Size	Gauge	Height	Drilled/Welded Tenon
P	R	5	7	30	D2
	R = Round	4 = 4"	7 = 7	10 = 10'	D2 = Drilled
	TR = Tapered Round	5 = 5"	11 = 11	15 = 15'	WT = Welded Tenon
		6 = 6"		20 = 20'	
		7 = 7"		25 = 25'	
		8 = 8"		30 = 30'	





Color: Bronze

Weight: 16.5 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

Type	Constant Current
120V	1.25A
208V	0.73A
240V	0.63A
277V	0.55A
Input Watts	74.8/91.3/146.8W

LED Info

Watts	150W
Color Temp	4000K (Neutral)
Color Accuracy	84/84/82 CRI
L70 Lifespan	100,000 Hours
Lumens	10750/12911/19644 lm
Efficacy	143.7/141.4/133.9 lm/W

Technical Specifications

Field Adjustability

Field Adjustable (Wattage):

Field adjustable light output in 3 discrete steps:  
Medium Housing: 150W/90W/78W (factory default 150W)

Compliance

UL Listed:

Suitable for wet locations

IP Rating:

Ingress protection rating of IP66 for dust and water

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

DLC Product Code: S-4MLOS8

LED Characteristics

LEDs:

Long-life, high-efficacy, discrete, surface-mount LEDs

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2017.

Electrical

Driver:

78W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.65A, 208V: 0.38A, 240V: 0.33A, 277V: 0.29A

90W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.75A, 208V: 0.44A, 240V: 0.38A, 277V: 0.33A

150W: Constant Current, Non-Class 2, 120-277V, 50/60 Hz, 120V: 1.25A, 208V: 0.73A, 240V: 0.63A, 277V: 0.55A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

3.45% at 120V, 8.26% at 277V

Power Factor:

100% at 120V, 95.6% at 277V

Surge Protection:

Line to Line: 10kV  
Line to Ground: 6kV

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Wattage Equivalency:

Equivalent to 400W Metal Halide

Construction

IES Classification:

The Type IV distribution is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Cold Weather Starting:

The minimum starting temperature is -40°C (-40°F)

## Technical Specifications (continued)

### Ambient Temperature :

Max Power Temp Rating: 40°C (104°F)  
 Middle Power Temp Rating: 52°C (125°F)  
 Low Power Temp Rating: 54°C (130°F)

### Housing:

Die-cast aluminum

### Lens:

Polycarbonate lens

### Reflector:

Aluminum reflector with white polycarbonate

### Vibration Rating:

3G vibration rating per ANSI C136.31

### Effective Projected Area:

1 Fixture: 0.37  
 2 Fixtures at 90°: 0.59  
 2 Fixtures at 180°: 0.74  
 3 Fixtures at 90°: 0.96  
 4 Fixtures at 90°: 0.96

### Gaskets:

High-temperature silicone gaskets

### Finish:

Formulated for high durability and long-lasting color

### Green Technology:

Mercury and UV free. RoHS-compliant components.

## Installation

### Mounting:

Wall mount

## Optical

### Bug Rating:

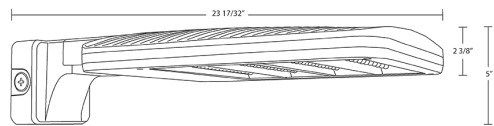
150W: B2 U0 G4  
 90W: B1 U0 G3  
 78W: B1 U0 G3

## Other

### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of ten (10) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

Dimensions



Features

- 0-10V dimmable standard
- IP66 Rated
- 100,000-Hour LED lifespan
- 10-Year, No-Compromise Warranty


Ordering Matrix

Family	Housing Size	Distribution	Mounting	Color Temp	Finish	Driver	Options
ALED	M	4T	WM	N			
<div><div>M = Medium (150W/90W/78W) L = Large (260W/220W/170W) XL = Extra Large (385W/345W/300W) S = Small (80W/60W/40W)</div><div>2T = Type II 3T = Type III 4T = Type IV 5T = Type V AT = Auto Dealership Optic</div><div>Blank = Universal Pole Mount SF = Slipfitter WM = Wall Mount</div><div>Blank = 5000K Cool Y = 3000K Warm<sup>1</sup> N = 4000K Neutral</div><div>Blank = Bronze W = White B = Black</div><div>Blank = 120-277V, 0-10V Dimming /480 = 480V, 0-10V Dimming</div><div>Blank = No Option /7PR = 7 Pin Twistlock Receptacle /WS2 = Wattstopper, 20ft lens /WS4 = Wattstopper, 40ft lens<sup>3</sup></div></div>							

<sup>1</sup> Dark sky approved in 3000K, available only on Small and Medium fixtures

<sup>2</sup> 480V available only on Medium, Large & Extra Large fixtures

<sup>3</sup> Wattstopper option available only on Large & Extra Large fixtures



Color: Bronze

Weight: 0.0 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

LED Info

Type	Constant Current	Watts	12/18/25W
120V	0.09A/0.14A/0.20A/0.21A	Color Temp	3000/4000/5000K
208V	0.07A/0.08A/0.10A/0.13A	Color Accuracy	80-83 CRI
240V	0.06A/0.07A/0.09A/0.11A	L70 Lifespan	100,000 Hours
277V	0.06A/0.07A/0.08A/0.10A	Lumens	1382-3444 lm
Input Watts	11.5-25.3W	Efficacy	116.1-142.9 lm/W

Technical Specifications

Field Adjustability

Field Adjustable:

Field Adjustable Light Output:  
25/18/12W (factory default 18W)  
Color temperature selectable 3000K, 4000K and 5000K (factory default 4000K)  
On/Off Photocell (factory default "Off")

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

LED Characteristics

LEDs:

Long-life, high-efficiency, surface-mount LEDs

Electrical

Driver:

25W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.20A, 208V: 0.13A, 240V: 0.11A, 277V: 0.10A  
18W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.14A, 208V: 0.10A, 240V: 0.09A, 277V: 0.08A  
12W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.09A, 208V: 0.08A, 240V: 0.07A, 277V: 0.06A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

Photocell:

120-277V selectable photocell that can be turned on and off.

Aux Power Supply:

Yes

Dim to Off:

Yes

Construction

Cold Weather Starting:

The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Housing:

Die-cast aluminum

Lens:

Tempered glass

Gaskets:

High-temperature silicone

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

Compliance

UL Listed:

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

ADA Compliant:

Meets ADA Requirements for wall-mounted luminaires.

IP Rating:

Ingress protection rating of IP65 for dust and water

Trade Agreements Act Compliant:

This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

Need help? Tech help line: (888) 722-1000 Email: techsupport@rablighting.com Website: www.rablighting.com

Copyright © 2025 RAB Lighting All Rights Reserved Note: Specifications are subject to change at any time without notice

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Page 1 of 3

## Technical Specifications (continued)

### DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

DLC Product Code: S-84SQ6T

### Installation

#### Mounting:

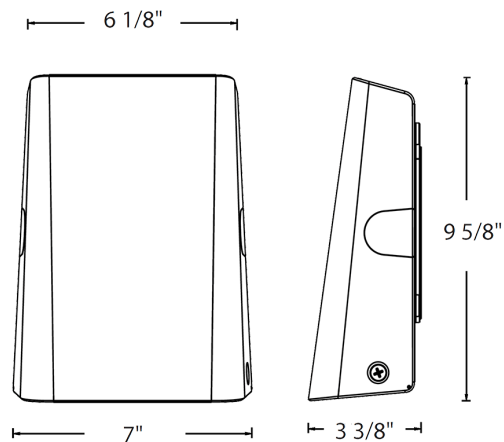
Heavy-duty mounting bracket with spring-hinged housing and "kick stand" allow for easy installations. Conduit entries on back and both sides.

### Other

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

## Dimensions



## Features

- 100,000-Hour LED lifespan
- 0-10V dimming standard
- 5-Year, no-compromise warranty



Ordering Matrix

Family	Wattage	Color Temp	Finish	Driver	Options
SLIM	XS				
XXS = 7/5/3.5W XS = 25/18/12W S = 38/28/18W M = 55/41/27W L = 60/45/29W		Blank = 3000K/4000K/5000K CCT Adjustable Y = 3000K Static	Blank = Bronze W = White	Blank = 120-277V, 0-10V Dimming	Blank = No Option /LC = Lightcloud /LCB = Lightcloud Blue





**Vanderstappen**  
Land Surveying, Inc.

www.vanderstappen.com  
1316 N. Madison St.  
Woodstock, Illinois 60098  
ph 815-537-8110 fax 815-537-8114  
Always faithful to the property first

# LEGAL DESCRIPTIONS:

## PARCEL A:

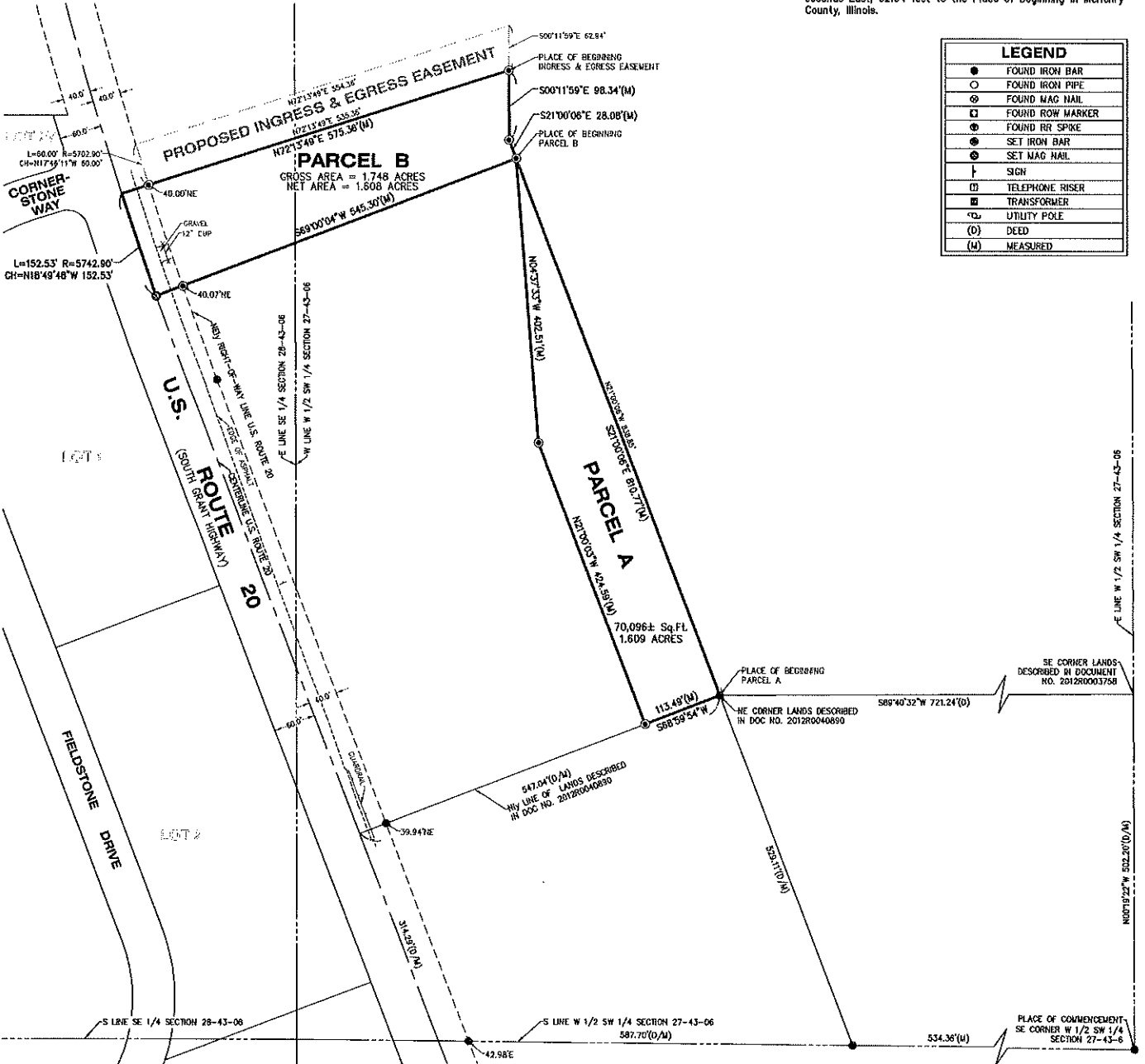
Part of the West Half of the Southwest Quarter of Section 27, Township 43 North, Range 6 East of the Third Principal Meridian, being described as follows: Commencing at the Southeast corner of the said West Half of the Southwest Quarter; thence North 00 degrees 19 minutes 22 seconds West, along the East line thereof, 502.20 feet to the Southeast corner of the lands described in Document No. 2012R0003758; thence South 89 degrees 40 minutes 32 seconds West along the South line thereof, 721.24 feet to the Northeast corner of the lands described in Document No. 2012R0040890 and the Place of Beginning; thence South 68 degrees 59 minutes 54 seconds West along the Northern line of said lands, 113.49 feet; thence North 21 degrees 00 minutes 03 seconds West, 402.51 feet; thence South 21 degrees 00 minutes 06 seconds East, 810.77 feet to the Place of Beginning, in McHenry County, Illinois.

## PARCEL B:

Part of the Southeast Quarter of Section 28 and part of the West Half of the Southwest Quarter of Section 27, Township 43 North, Range 6 East of the Third Principal Meridian, being described as follows: Commencing at the Southeast corner of the said West Half of the Southwest Quarter; thence North 00 degrees 19 minutes 22 seconds West, along the East line thereof 502.20 feet to the Southeast corner of the lands described in Document No. 2012R0003758; thence South 89 degrees 40 minutes 32 seconds West along the South line thereof, 721.24 feet to the Northeast corner of the lands described in Document No. 2012R0040890; thence North 21 degrees 00 minutes 06 seconds West, 810.77 feet to the Place of Beginning; thence South 68 degrees 59 minutes 54 seconds West, 402.51 feet to the centerline of U.S. Route 20; thence North 132.53 feet along said centerline, being along a curve to the right, having a radius of 5,742.90 feet, the chord of which bears North 18 degrees 49 minutes 48 seconds West, for a length of 152.53 feet; thence North 72 degrees 13 minutes 49 seconds East, 575.36 feet; thence South 00 degrees 11 minutes 59 seconds East, 98.34 feet; thence South 21 degrees 00 minutes 06 seconds East, 28.08 feet to the Place of Beginning in McHenry County Illinois.

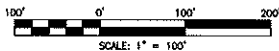
## INGRESS & EGRESS EASEMENT:

An Ingress and Egress Easement across part of the Southeast Quarter of Section 28 and part of the West Half of the Southwest Quarter of Section 27, Township 43 North, Range 6 East of the Third Principal Meridian, being described as follows: Commencing at the Southeast corner of the said West Half of the Southwest Quarter; thence North 00 degrees 19 minutes 22 seconds West, along the East line thereof 502.20 feet to the Southeast corner of the lands described in Document No. 2012R0003758; thence South 89 degrees 40 minutes 32 seconds West along the South line thereof, 721.24 feet to the Northeast corner of the lands described in Document No. 2012R0040890; thence North 21 degrees 00 minutes 06 seconds West, 810.77 feet to the Place of Beginning; thence South 68 degrees 59 minutes 54 seconds West, 402.51 feet to the centerline of U.S. Route 20; thence North 132.53 feet along said centerline, being along a curve to the right, having a radius of 5,742.90 feet, the chord of which bears North 18 degrees 49 minutes 48 seconds West, for a length of 152.53 feet; thence North 72 degrees 13 minutes 49 seconds East, 575.36 feet; thence South 00 degrees 11 minutes 59 seconds East, 98.34 feet; thence South 21 degrees 00 minutes 06 seconds East, 28.08 feet to the Place of Beginning in McHenry County, Illinois.



## LEGEND

●	FOUND IRON BAR
○	FOUND IRON PIPE
⊙	FOUND MAG NAIL
⊠	FOUND ROW MARKER
⊕	FOUND RR SPIKE
⊗	SET IRON BAR
⊛	SET MAG NAIL
+	SIGN
⌚	TELEPHONE RISER
⊞	TRANSFORMER
⌚	UTILITY POLE
(D)	DEED
(M)	MEASURED



CLIENT: JOHN CEDERLUND  
DRAWN BY: CKV/TVA CHECKED BY: APQ  
SCALE: 1"=100' SEC. 27-28 T. 43 R. 06 E.  
BASIS OF BEARING: IL EAST ZONE NAD83 (2011)  
P.L.N.: 17-27-300-013; 17-28-400-004  
JOB NO.: 240145-A & B I.D. MBV-2  
FIELDWORK COMP.: 03/21/24 BK. PG.  
ALL DISTANCES SHOWN IN FEET AND DECIMAL PARTS THEREOF CORRECTED TO 68° F. REF: 150343

NOTE: Only those Building Line Restrictions or Easements shown on a Recorded Subdivision Plat are shown hereon unless the description ordered to be surveyed contains a proper description of the required building lines and easements.

- No distance should be assumed by scaling.
- No underground improvements have been located unless shown and noted.
- No representation as to ownership, use, or possession should be hereon implied.
- This Survey and Plat of Survey are void without the original embossed or colored seal and signature affixed.



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

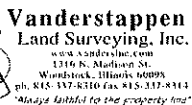
In my professional opinion, and based on my observations, I hereby certify that we have surveyed the premises above described, and that the plat hereon is a true representation of the said survey. This professional service conforms to the current Illinois minimum standards for a boundary survey.

Dated at Woodstock, McHenry County, Illinois 6/22 A.D., 20 24.

Vanderstappen Land Surveying Inc.  
Design Firm No. 184-602792

By: *Robert Vanderstappen*  
Illinois Professional Land Surveyor No. 38857

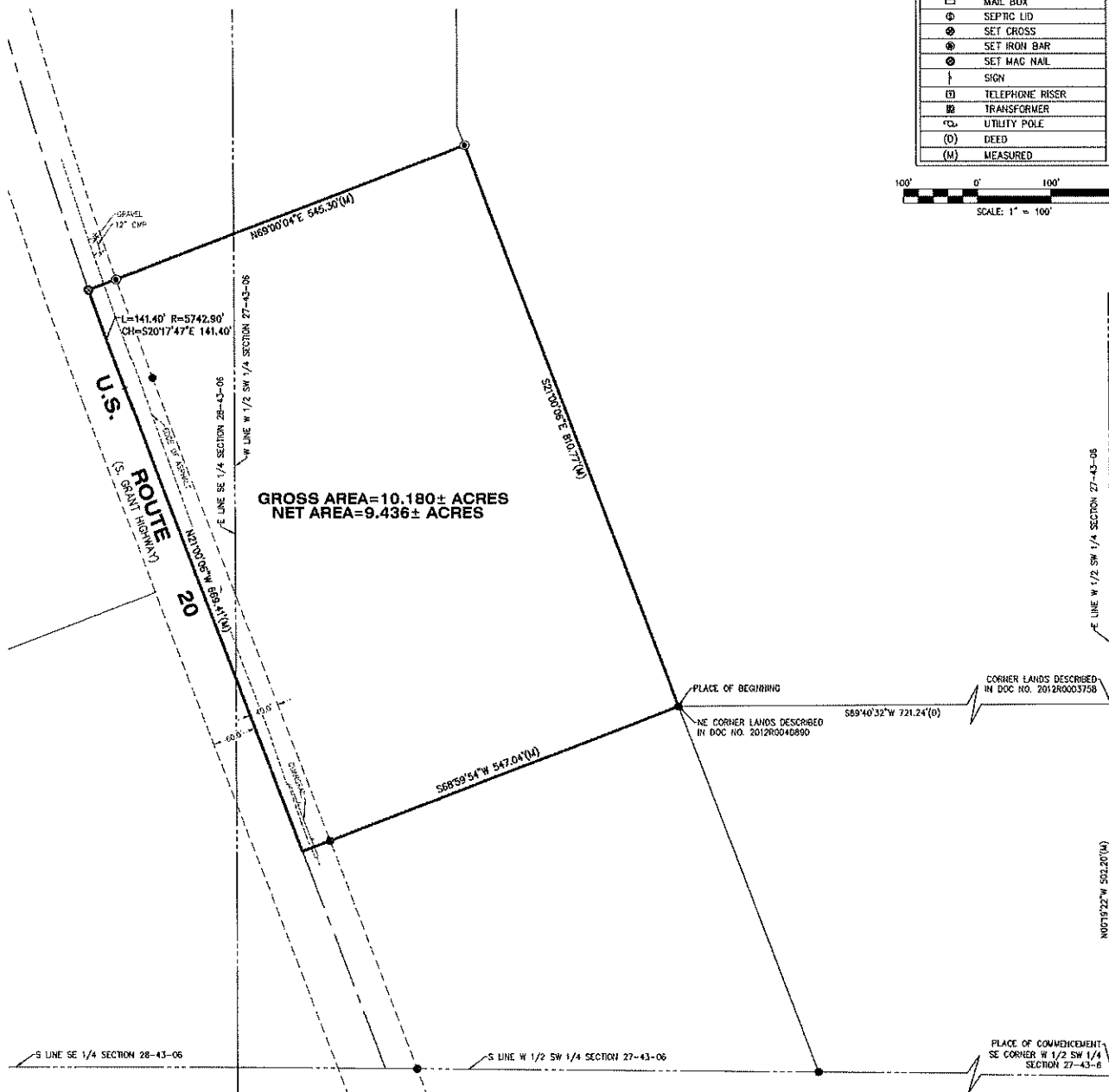
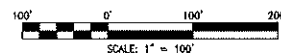
Compare your description and site markings with this plat and AT ONCE report any discrepancies which you may find.



Part of the Southeast Quarter of Section 28 and part of the West Half of the Southwest Quarter of Section 27, Township 43 North, Range 6 East of the Third Principal Meridian, being described as follows: Commencing at the Southeast corner of the said West Half of the Southwest Quarter; thence North 00 degrees 19 minutes 22 seconds West, along the East line thereof, 502.20 feet to the Southeast corner of the lands described in Document No. 2012R0003758; thence South 89 degrees 40 minutes 32 seconds West along the South line thereof, 721.24 feet to the Northeast corner of the lands described in Document No. 2012R0040890 and the Place of Beginning; thence South 68 degrees 59 minutes 54 seconds West along the Northerly line of said lands, 547.04 feet to the centerline of U.S. Route 20; thence North 21 degrees 00 minutes 06 seconds West along the centerline of U.S. Route 20, 100.00 feet to the center of a circular arc turning along a curve to the right, having a radius of 5,742.90 feet, the chord of which bears North 20 degrees 17 minutes 47 seconds West, for a length of 141.40 feet; thence North 69 degrees 00 minutes 04 seconds East, 545.30 feet; thence South 21 degrees 00 minutes 06 seconds East, 810.77 feet to the Place of Beginning in McHenry County Illinois.

### LEGEND

❖	AIR CONDITIONER
◆	DOWN GUY
⊠	ELECTRIC METER
●	FOUND IRON BAR
○	FOUND IRON PIPE
⊗	FOUND MAG NAIL
⊙	FOUND ROW MARKER
⊕	FOUND RR SPIKE
⊛	GAS METER
☐	MAIL BOX
⊞	SEPTIC LID
⊗	SET CROSS
⊙	SET IRON BAR
⊗	SET MAG NAIL
↑	SIGN
⬆	TELEPHONE RISER
⊞	TRANSFORMER
⊞	UTILITY POLE
(D)	DEED
(M)	MEASURED



GROSS AREA=10.180± ACRES  
NET AREA=9.436± ACRES

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 03/22 A.D., 2024.

Vanderstappen Land Surveying Inc.  
Design Firm No. 124-002792

By: [Signature]  
Illinois Professional Land Surveyor No. 3056

CLIENT: JOHN CEDERLUND  
DRAWN BY: CKV CHECKED BY: TYA  
SCALE: 1"=100' SEC. 27.28. 43 R. 06 E.  
BASIS OF BEARING: IL EAST ZONE NAD83 (2011)  
P.I.N.: 17-27-300-013; 17-28-400-004  
JOB NO. 240145 I.D. MB.  
FIELDWORK COMP. 03/21/24 BK. PG.  
ALL DISTANCES SHOWN IN FEET AND DECIMAL REF: 150343  
PARTS WHEREOF CORRECTED TO N.T.S.

**NOTE: Only those Building Line Restrictions or Easements shown on a Recorded Subdivision Plat are shown hereon, unless the description ordered to be surveyed contains a proper description of the required building lines or easements.**

- No distance should be assumed by scaling.
- No underground improvements have been located unless shown and noted.
- No representation as to ownership, use, or possession should be hereon implied.
- 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.



Z25-0028

Project Name: GLG Conditional Use

Project Description: Conditional Use Application for Storage & Variances to store semi-trucks not owned by property owner and use grindings. Parcels: 17-28-400-012; 17-27-300-028; 17-27-300-026; 17-28-400-010

Permit Type: CONDITIONAL USE WITH ZONING VARIATION

Site Address (Parcel) Owner Name: 387 STONE PL

Parcel Identification Number: 17-27-300-028

Site (Parcel) Address: RT 20 MARENGO, IL 60152

Number of Acres: 10.24

Site Address (Parcel) Owner Phone Number: 773-844-6344

Site Address (Parcel) Owner Email Address: blagnad@yahoo.com

Applicant Name (if other than owner): GLG SOLUTIONS INC

Primary Contact: Pfiffner, Elizabeth

Applicant Address: 387 STONE PL

Applicant Phone Number: 773-844-6344

Applicant Email Address: blagnad@yahoo.com

Amended Narrative:

<b>NARRATIVE:</b> Please use this space to explain your request in detail.
Petitioner will be utilizing the parcel for a semi-truck repair shop, office, and parts warehouse.
As part of this prospective use, Petitioner is requesting to allow on site semi-truck parking for drivers
when they are coming home for the weekend, when they take a short vacation, and when the
semi-trucks will be in line for repairs. The Petitioner's use, including the proposed conditional
use would allot for 47 standard parking spaces, 2 handicapped parking space, 9 bob-tail
parking spaces, and 62 trailer spaces.
Relative to the variation request, Petitioner is seeking to use grindings in lieu of pavement for the
proposed storage space. Additionally, Petitioner is seeking a zoning variance to allow for
the storage of semi-trucks that are not owned by Petitioner, as part of his ordinary business.
Owner anticipates approximately approximately 10-15 clients per day at the premises, this will
fluctuate based on the book of business and client needs. Owner projects approximately 25
employees in the offices and and additional 14 in the bays of the repair shop.
Legal description is attached hereto as Exhibit "A".

Type

**CONSENT**

I/We hereby authorize that the aforementioned applicant, attorney, and agent may act and testify on my behalf as my agent in the matter of this zoning application regarding the property listed above that is the subject of this application.

**VERIFICATION**

I/We hereby verify and attest to the truth and correctness of all facts, statements and information presented herein.

  
\_\_\_\_\_  
**Owner's Signature**

\_\_\_\_\_  
**Signature**

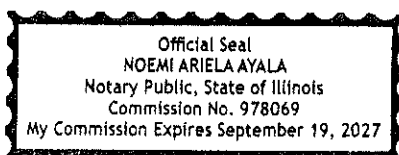
Dumitru Sandu

\_\_\_\_\_  
**Print Name**

\_\_\_\_\_  
**Print Name**

SUBSCRIBED and SWORN to before me  
this 4 day of February, 2025.

  
\_\_\_\_\_  
**NOTARY PUBLIC**



**Approval Standards for Conditional Use**  
(McHenry County Unified Development Ordinance §16.20.040E)

This form must be completed for requests for conditional use. Yes and No answers are insufficient. please provide a minimum one or two sentence explanation.

1. Please describe how the conditional use meets all applicable standards of UDO §16.56 (Use Standards) and §16.60 (Site Development Standards)?

There is appropriate road frontage, access for ingress and egress, the area where the vehicles will be stored will be paved, and the proposed conditional use is compatible with surrounding properties. No maintenance of the vehicles will be done in the storage area.

2. Is the conditional use compatible with the existing or planned future development of the area?

Yes, the proposed conditional use is compatible with existing and possible future development. It is currently zoned B-3 and has several similarly situated uses surrounding the parcels.

3. Is the conditional use detrimental to or endanger the public health, safety, morals, comfort or general welfare of the area?

No, the proposed use would not endanger or be detrimental to the public health, safety, morals, comfort or general welfare of the area. The proposed conditional use is compatible with surrounding area uses.

4. Will the conditional use be injurious to the use and enjoyment of other property in the area?

The proposed conditional use would not be injurious to the use and enjoyment of the surrounding properties in the area.

5. Will the conditional use substantially diminish and impair property value in the area?

No, the proposed use would not diminish or impair the surrounding property values and would arguably increase the surrounding properties values.

6. Are adequate utilities, access roads, drainage, and other necessary facilities provided?

There are adequate utilities, access roads, drainage, and necessary facilities surrounding the proposed conditional use.

7. Has conditional use operation been designed to provide ingress and egress to minimize traffic congestion and hazard on the public streets?

The proposed conditional use will not have any additional impact on the ingress and egress. However, in conjunction with the Petitioner's intended use for the B-3 parcel as a repair shop, office, and parts warehouse, the proposed conditional use has been taken into consideration to minimize any traffic congestion relative to ingress and egress to the property.

8. Will the conditional use conform to the applicable standards of the underlying zoning district?

Yes, the conditional use will conform to the applicable standards of the underlying B-3 zoning district.

9. Will the conditional use be reasonably in the interest of the public welfare?

Yes, the proposed conditional use would be in the interest of public welfare. It will help to bolster the local economy and have the potential impact of increasing surrounding property values, as well as filling a need in the community.

10. Will there be adequate measures taken to provide protection to groundwater recharge and groundwater quality?

Yes, the Petitioner is working with an engineer and taking all necessary measures to protect and preserve the ground water recharge and quality.



**Approval Standards for Variation**  
(McHenry County Unified Development Ordinance §16.20.020F)

This form must be completed for requests for variation. Yes and No answers are insufficient, please provide a minimum one or two sentence explanation.

1. What hardship is placed upon the property owner due to the particular surroundings, shape, or topographic conditions of the property if the strict letter of the zoning regulations were carried out?

The property is surrounded by businesses, if the variance proposed is not approved, he will not be able to use the parcel for his intended purposes and it would not be suitable for its highest and best use. The grindings would be more beneficial to soil drainage than the use of pavement, and having to use pavement may affect the drainage on the property.

2. How is the hardship described in question 1 unique to this property and not applicable to all properties within the same zoning district?

None of the other surrounding parcels have a use similar to the Petitioner's intended use of this parcel. If it is denied, the Petitioner will not be able to provide a need for the community, as this parcel is located close to I-90. There is a need for truckers in the area to be able to store their vehicles for a period of time, as well as during the repair process on the semi-trucks. The use of grindings would allow for more drainage, alleviate the need for continual resurfacing of pavement, is more cost effective, and allows the re-use of existing materials that need to be otherwise destroyed.

3. Other than increased monetary gain, what is the purpose of the variation?

The purpose is to fill a need for semi-truck repair and storage of the vehicles in the case of the repair or when the owners of semi-trucks would like a place for the vehicles for a period of time. The proposed grindings are more suitable to the proposed use of the property than pavement and would be less invasive on the land than pavement. It also is providing benefit of using materials that have a need to be destroyed, allowing the reuse of existing materials, and reduced the risk of affecting the drainage on the land from years of resurfacing existing pavement.

4. Did the property owner or past owners create the difficulty or hardship that the variation seeks to relieve?

Past land owners could have sought a more broad zoning classification on this parcel, especially considering the property's proximity to I-90.

5. Will the variation be detrimental to the public welfare or injurious to other property or improvements in the neighborhood?

No, the variations requested will not be a detriment or be injurious to other property owners or to the surrounding improvements.

6. Will the variation: impair an adequate supply of light and air to adjacent property, increase congestion on the public streets, increase the risk of fire to adjacent property, or substantially diminish or impair property values within the neighborhood?

No, the proposed variations will not have any negative impact as set forth in this paragraph. Arguably, the proposed variations would increase the property values in the neighborhood. The property is located on a highly trafficked highway, and will not increase traffic. The storage of semi-trucks not owned by Petitioner and use of grindings will not increase risk of fire.

7. Will this variation confer special privilege to the property owner that is denied to other owners with property in the same zoning district?

No, the Petitioner does not believe the granting of these variations will confer a special privilege that is denied to surrounding owners.

# McHENRY~LAKE COUNTY SOIL & WATER CONSERVATION DISTRICT

## NATURAL RESOURCES INFORMATION REPORT

**25-008-4669**

March 5, 2025



This report has been prepared for:  
GLG Solutions, LLC

Contact Person:  
Dumitru Sandu/Elizabeth Pfiffner

PREPARED BY:  
McHENRY-LAKE COUNTY SOIL & WATER CONSERVATION  
DISTRICT

1648 S. EASTWOOD DR.

WOODSTOCK, IL 60098

PHONE: (815) 338-0444

[www.mchenryswcd.org](http://www.mchenryswcd.org)

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

## EXECUTIVE SUMMARY OF NRI REPORT #25-008-4669

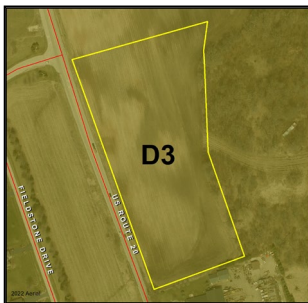
*It is the opinion of the McHenry-Lake County Soil and Water Conservation District Board of Directors that this report as summarized on these pages are pertinent to the requested zoning change.*





**Site Picture: Looking east**

**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 D3 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 entire 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 5.1 acres or 55.8% of the parcel is comprised of high leaching potentials for fertilizers (identified in red).

**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.):**

#### **Septic Limitations**

The USDA-NRCS Soil Survey Map of the area indicates 0.5 acres or 5.4% of the parcel has a severe limitation for septic systems.



#### **Small Commercial Building Limitations**

Small commercial buildings are structures that are less than three stories high and do not have 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 0.6 acres or 6.8% of the parcel contain very limited soils for commercial buildings (identified in red).

#### **Erosion Ratings**

The NRCS Soils Survey indicates 4.9 acres or 53.2% of the parcel contains highly erodible soils.



#### **Prime Farmland Soils**

The Natural Resources Conservation Service (NRCS) Soil Survey indicates 8.5 acres or 93.2% of the parcel is comprised of prime farmland soils (identified in green).



### Hydric Soils

The NRCS Soil Survey indicates 0.5% of the parcel contains hydric soils (identified in red).

### 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 no wetlands on the parcel.

#### ADID Wetland Inventory

The ADID Wetland Study indicates there are no wetlands on the parcel.

#### 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 0.5% of the parcel experiences Frequent ponding, which means that ponding occurs on average, more than once in 2 years. The chance of ponding is more than 50 percent in one year (identified in blue).

**Cultural Resources:** None identified

**Preserved or Recognized Ecological Sites:** None identified

**Woodlands:** None identified

**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 Score for the parcel is 77.6. A Site Assessment was not completed.

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**ADDITIONAL CONCERNS OF THE BOARD OF DIRECTORS**

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The McHenry-Lake County SWCD Board of Directors has no immediate concerns regarding this zoning change.



## NATURAL RESOURCE INFORMATION REPORT (NRI)

NRI Report Number	25-008-4669		
Date District Board Reviews Application	March 4, 2025		
Applicant's Name	GLG Solutions, LLC		
Size of Parcel	10.23 acres		
Zoning Change	B-3 Conditional Use & Variance (Semi Truck Storage on Grindings)		
Parcel Index Number(s)	17-27-300-026, 17-27-300-028, 17-28-400-010, 17-28-400-010		
Common Location	Undefined		
Contact Person	Applicant		
<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*



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## PURPOSE AND INTENT

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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.

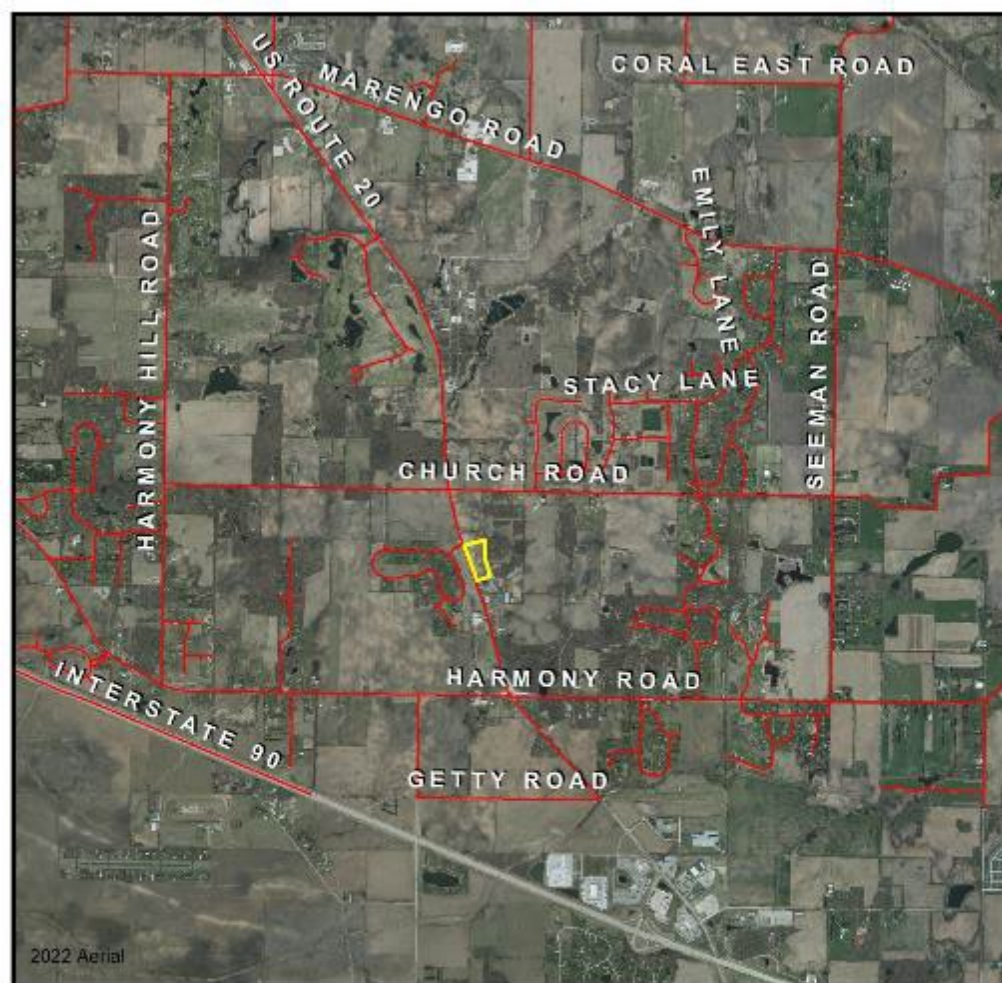
The conclusions of this report in no way indicate that a certain land use is not possible, but it should alert the reader to possible problems that may occur if the capabilities of the land are ignored. Any questions on the technical data supplied in this report or if anyone feels that they would like 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](http://www.mchenryswcd.org)  
E-mail: [Spring.Duffey@il.nacdnet.net](mailto:Spring.Duffey@il.nacdnet.net)**

## PARCEL LOCATION

### Location Map for Natural Resources Information Report # 25-008-4669

In the Southwest Quarter of Section 27 and the Southeast Quarter of Section 28, Township 43 North, Range 6 East, on 10.23 acres. This parcel is located on the east side of US Route 20, south of the intersection of US Route 20 and Church Road, McHenry County, IL.



0 1,200 2,400 4,800 7,200 9,600 Feet

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

#### Key To Features

 Parcel Boundary

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## ARCHAEOLOGIC/CULTURAL RESOURCES

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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)*

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## ECOLOGICALLY SENSITIVE AREAS

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### ***What is Biological Diversity and Why Should it be Conserved?<sup>1</sup>***

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

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<sup>1</sup>Taken 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

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 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)*



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## WOODLANDS

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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 D3 geologic limitations.

**D-3** 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 less than 20 feet sand and gravel.)

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

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## SENSITIVE AQUIFER RECHARGE AREAS

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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.)*

***\*A check of the resource map indicates the parcel is not within a Sensitive Aquifer Recharge Area.***

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## SOILS INFORMATION

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### **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.

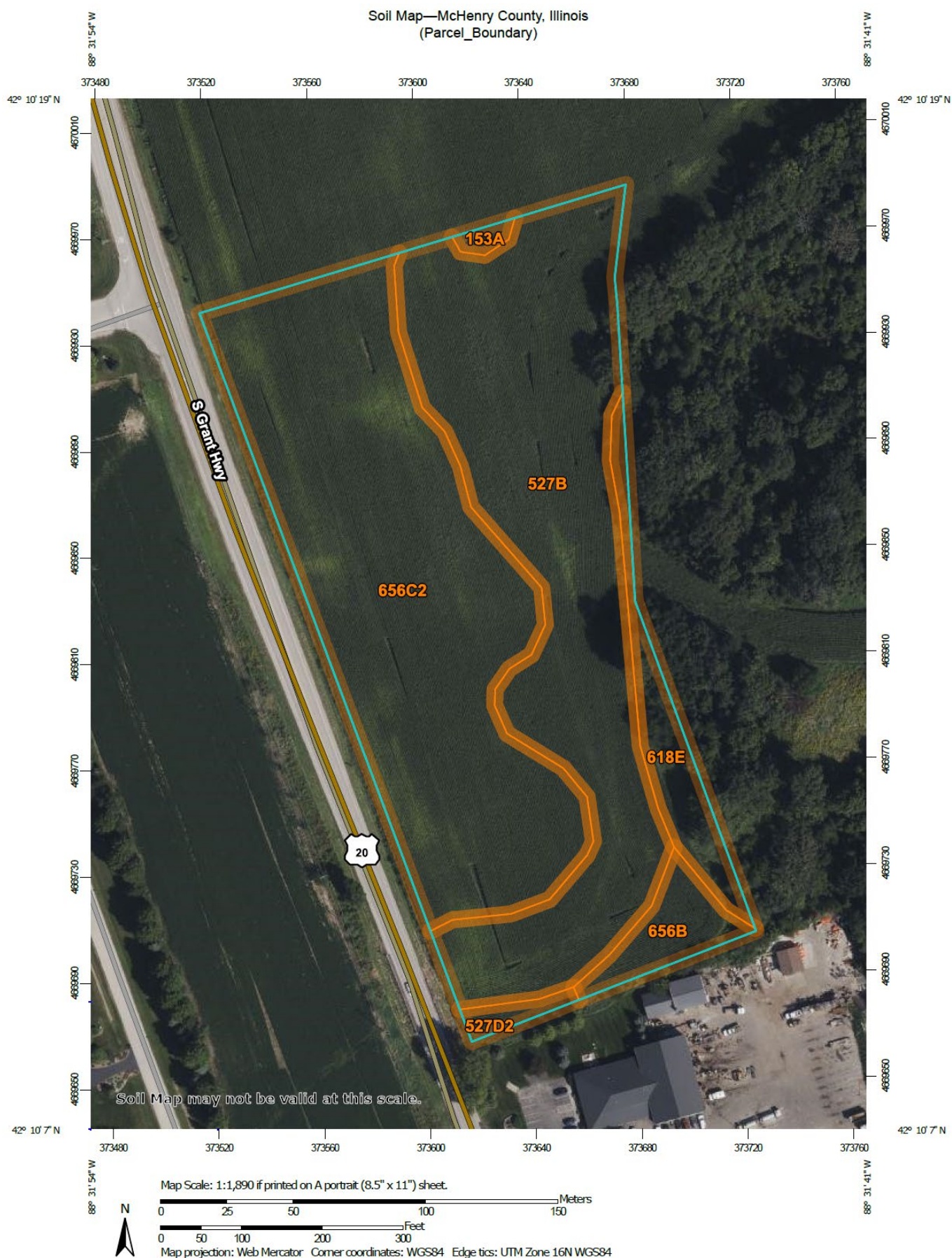
The limitation categories (slight, moderate or severe) indicate the potential for difficulty in using that soil unit for the proposed activity and, thus, the degree of need for thorough soil borings and engineering studies. A limitation does not

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
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded	0.1	1.0%
618E	Senachwine silt loam, 12 to 20 percent slopes	0.5	5.4%
656B	Octagon silt loam, 2 to 4 percent slopes	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	4.3	46.8%
<b>Total</b>		<b>9.2</b>	<b>100.0%</b>

## 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.

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## SOIL LEACHABILITY

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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.





## Nitrate Leaching Potential, Nonirrigated

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	Low	Pella, cool (85%)	Water quantity available for leaching (0.99)	0.0	0.5%
				Denitrification due to saturation (0.50)		
527B	Kidami silt loam, 2 to 4 percent slopes	Moderately high	Kidami (85%)	Water quantity available for leaching (0.99)	3.9	42.8%
				Water travel time (0.61)		
527D2	Kidami loam, 6 to 12 percent slopes, eroded	Moderately high	Kidami (85%)	Water quantity available for leaching (0.99)	0.1	1.0%
				Water travel time (0.61)		
618E	Senachwine silt loam, 12 to 20 percent slopes	High	Senachwine (85%)	Water quantity available for leaching (0.98)	0.5	5.4%
				Water holding capacity (0.84)		
				Water travel time (0.40)		
				Slope (0.05)		
656B	Octagon silt loam, 2 to 4 percent slopes	High	Octagon (85%)	Water quantity available for leaching (0.99)	0.3	3.6%
				Water holding capacity (0.45)		
				Water travel time (0.38)		
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	High	Octagon (85%)	Water quantity available for leaching (0.99)	4.3	46.8%
				Water holding capacity (0.45)		
				Water travel time (0.38)		
Rating		Acres			Percent	
High		5.1			55.8%	
Moderately high		4.0			43.7%	
Low		0.0			0.5%	

## 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

<b>Highly Permeable Soils</b>			
<b>Map Unit Symbol</b>	<b>Highly Permeable</b>	<b>Acres</b>	<b>Percent</b>
153A	Pella silty clay loam, cool, 0 to 2 percent slopes - No	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes - No	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded - No	0.1	1.0%
618E	Senachwine silt loam, 12 to 20 percent slopes - No	0.5	5.4%
656B	Octagon silt loam, 2 to 4 percent slopes - No	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded - No	4.3	46.8%
<b>Total Highly Permeable Soils</b>		<b>0</b>	<b>0.0%</b>

## LIMITATIONS FOR SEPTIC SYSTEMS

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### **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.

<b>Septic Limitations</b>			
<b>Map Unit Symbol</b>	<b>Septic Rating</b>	<b>Acres</b>	<b>Percent</b>
153A	Pella silty clay loam, cool, 0 to 2 percent slopes - Severe	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes - Slight	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded - Moderate	0.1	1.0%
618E	Senachwine silt loam, 12 to 20 percent slopes- Severe	0.5	5.4%
656B	Octagon silt loam, 2 to 4 percent slopes - Slight	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded - Slight	4.3	46.8%
<b>Total Severe Limitations</b>		<b>0.5</b>	<b>5.4.0%</b>

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## SMALL COMMERCIAL BUILDINGS

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Small commercial buildings are structures that are less than three stories high and do not have 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 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 (which is inferred from the Unified classification of the soil). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, 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 site.





Small Commercial Buildings						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	Very limited	Pella, cool (85%)	Ponding (1.00)	0.0	0.5%
				Depth to saturated zone (1.00)		
				Shrink-swell (0.24)		
527B	Kidami silt loam, 2 to 4 percent slopes	Somewhat limited	Kidami (85%)	Shrink-swell (0.35)	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded	Very limited	Kidami (85%)	Slope (1.00)	0.1	1.0%
				Shrink-swell (0.35)		
618E	Senachwine silt loam, 12 to 20 percent slopes	Very limited	Senachwine (85%)	Slope (1.00)	0.5	5.4%
				Shrink-swell (0.10)		
656B	Octagon silt loam, 2 to 4 percent slopes	Somewhat limited	Octagon (85%)	Shrink-swell (0.01)	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	Somewhat limited	Octagon (85%)	Slope (0.14)	4.3	46.8%
				Shrink-swell (0.01)		
Rating		Acres			Percent	
Somewhat limited		8.5			93.2%	
Very limited		0.6			6.8%	

## 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
153A	Pella silty clay loam, cool, 0 to 2 percent slopes - No	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes - No	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded - Yes	0.1	1.0%
618E	Senachwine silt loam, 12 to 20 percent slopes - Yes	0.5	5.4%
656B	Octagon silt loam, 2 to 4 percent slopes - No	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded - Yes	4.3	46.8%
<b>Total Highly Erodible Soils</b>		<b>4.9</b>	<b>53.2%</b>

## 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
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	Prime farmland if drained	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes	All areas are prime farmland	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded	Not prime farmland	0.1	1.0%
618E	Senachwine silt loam, 12 to 20 percent slopes	Not prime farmland	0.5	5.4%
656B	Octagon silt loam, 2 to 4 percent slopes	All areas are prime farmland	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	All areas are prime farmland	4.3	46.8%
<b>Total Prime Farmland</b>			<b>8.5</b>	<b>93.2%</b>





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## AGRICULTURAL AREAS

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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.

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## LAND EVALUATION & SITE ASSESSMENT (LESA)

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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

### LAND EVALUATION (LE) WORKSHEET

Map Unit Symbol	LE Score	Acres	Percent	Weighted Ave.
153A	94	0.0	0.5%	0.47
527B	79	3.9	42.8%	33.812
527D2	73	0.1	1.0%	0.73
618E	67	0.5	5.4%	3.618
656B	81	0.3	3.6%	2.916
656C2	77	4.3	46.8%	36.036
<b>Land Evaluation Score</b>				<b>77.6</b>

### 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: A Site Assessment was not completed.**

## 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.

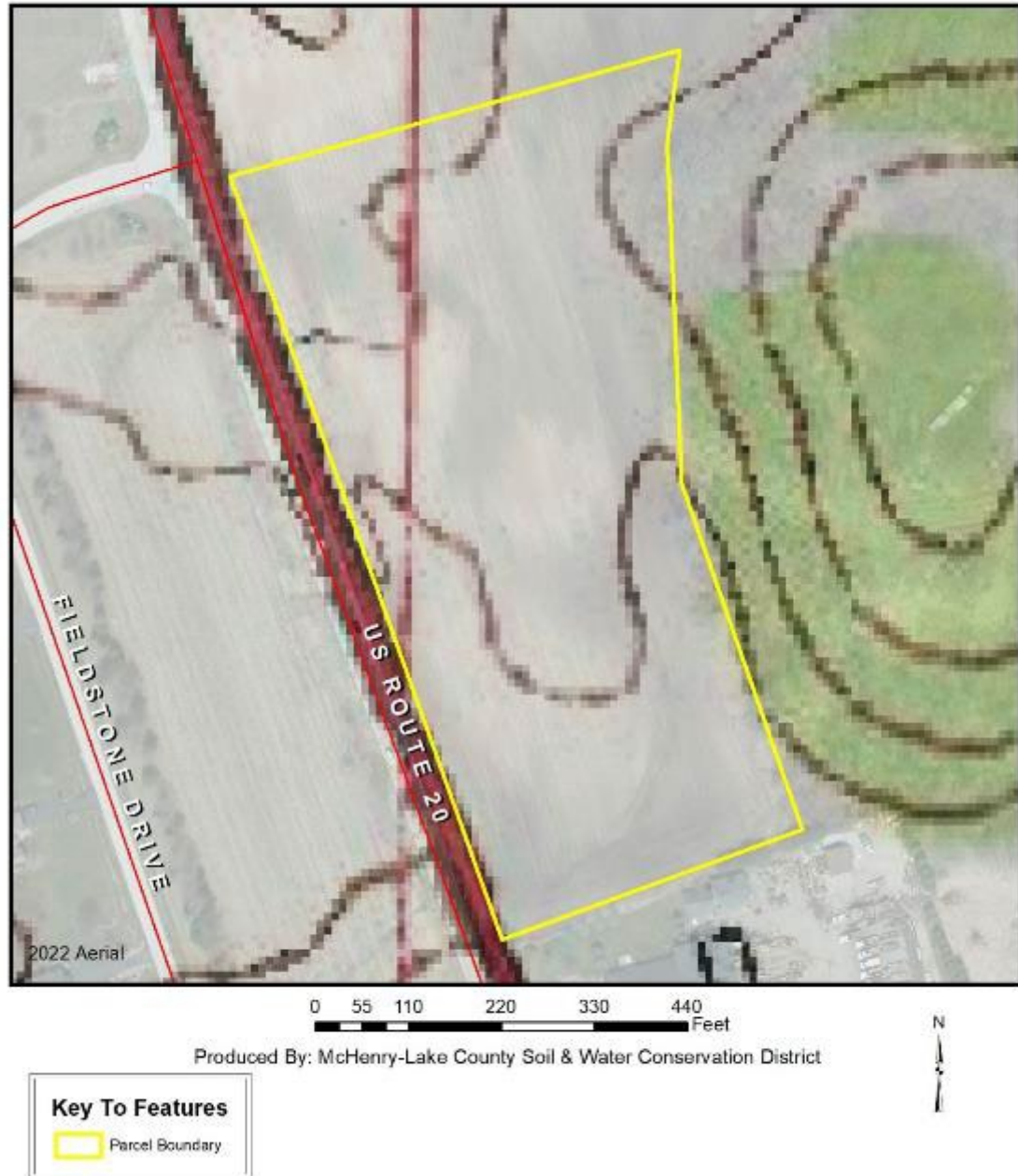
It should be noted that greater floods than those shown on the two maps are possible. The flood boundaries indicated provide a historic record only until the map publication date. Additionally, these flood boundaries are a function of the watershed conditions existing when the maps were produced. Cumulative 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.



#### Flood of Record Map Showing Topographic Information

This parcel is located on rolling topography (slopes 0 to 20%) involving high and low areas (elevation ranges from 952' above sea level to 972' above sea level). An erosion control system should include a sedimentation basin to address these exiting concentrated flows during construction. The same area used for a sedimentation basin during construction can be used for a stormwater retention system after construction.

During construction, temporary vegetation can decrease erosion on the slopes if the area is to be mass graded.

Also, the flood of record for this area indicates previous flooding on 0% of the parcel.



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

Key To Features	
<span style="border: 2px solid yellow; display: inline-block; width: 20px; height: 10px;"></span>	Parcel Boundary
<span style="border-bottom: 2px solid red; display: inline-block; width: 20px;"></span>	2 Ft Contours





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



Federal Emergency Management Agency: Flood Insurance Rate Map Panel 17111C0300J

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



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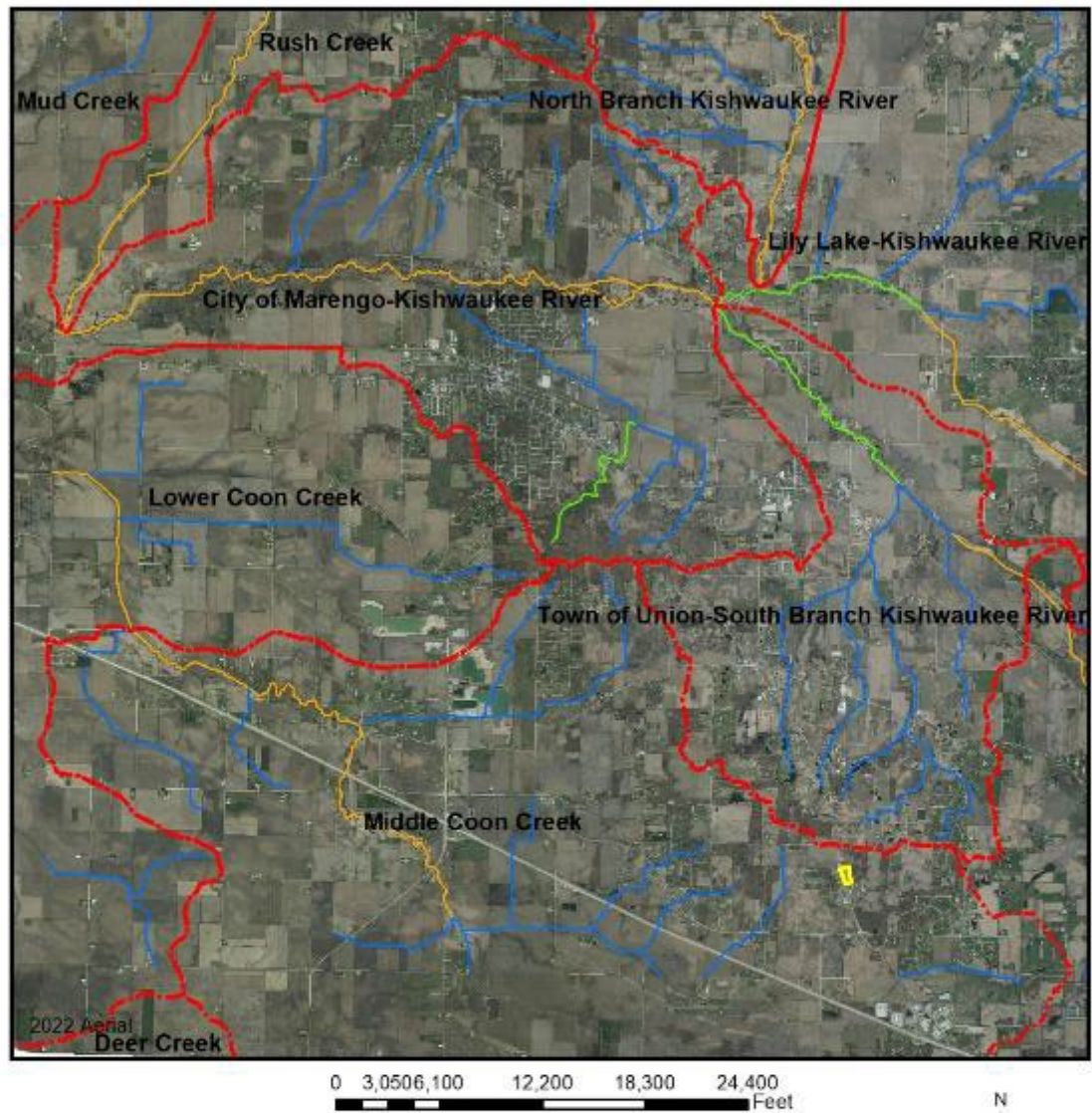
## WATERSHED PLANS

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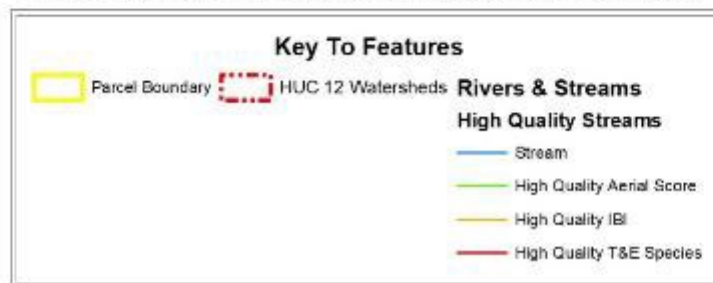
### Watershed and Subwatershed Information

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 – 070900060103) of the Coon Creek Watershed, which is 31,767.67 acres in size.
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## WETLAND INFORMATION

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### Importance of Wetland Information

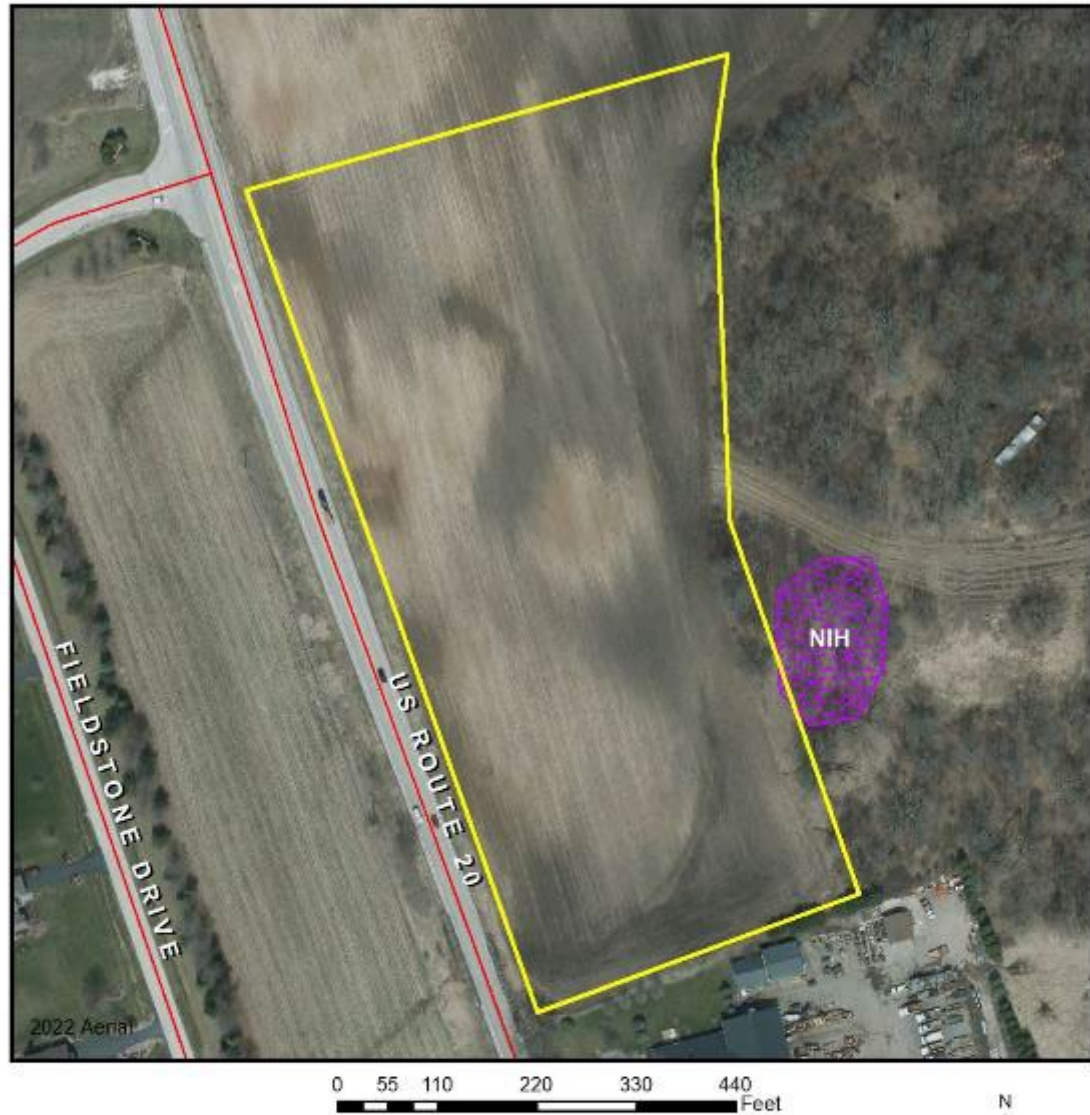
Wetlands function in many ways to provide numerous benefits to society. They control flooding by offering a slow release of excess water downstream or through the soil. They cleanse water by filtering out sediment and some pollutants, and can function as rechargers of our valuable groundwater. They also 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."*



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Natural Resources Conservation Service: Wetland Inventory Map.

The map indicates there are no wetlands on the parcel.



## 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 indicates there are no wetlands on the parcel in question. (Map shown on next page.)*



0 55 110 220 330 440 Feet

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



#### Key To Features

	Parcel Boundary		farmed wetland
	high functional wetland		high quality lake
	high quality wetland		lake
	wetland		

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## Hydric Soils

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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.

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.

<b>Hydric Rating by Map Unit</b>				
<b>Map unit symbol</b>	<b>Map unit name</b>	<b>Rating</b>	<b>Acres in AOI</b>	<b>Percent of AOI</b>
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	87 - Hydric	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes	0	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded	0	0.1	1.0%
618E	Senachwine silt loam, 12 to 20 percent slopes	0	0.5	5.4%
656B	Octagon silt loam, 2 to 4 percent slopes	0	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	0	4.3	46.8%
<b>Total Hydric</b>			<b>0.0</b>	<b>0.5%</b>





## 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
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	None	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes	None	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded	None	0.1	1.0%
618E	Senachwine silt loam, 12 to 20 percent slopes	None	0.5	5.4%
656B	Octagon silt loam, 2 to 4 percent slopes	None	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	None	4.3	46.8%
<b>Total Very Frequent, Frequent, Occasional, or Rare</b>			<b>0.0</b>	<b>0.0%</b>





## 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
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	Frequent	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes	None	3.9	42.8%
527D2	Kidami loam, 6 to 12 percent slopes, eroded	None	0.1	1.0%
618E	Senachwine silt loam, 12 to 20 percent slopes	None	0.5	5.4%
656B	Octagon silt loam, 2 to 4 percent slopes	None	0.3	3.6%
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	None	4.3	46.8%
<b>Totals Frequent</b>			<b>0.0</b>	<b>0.5%</b>





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## RETENTION SYSTEMS, LINED

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Lined retention systems are stormwater management practices that are placed 3 to 5 feet in the ground, depending on the application. An impervious liner, made of rubber or clay, is used to retain water and thus to maintain hydrophytic vegetation. These systems are meant to be used where the hydrology will not allow other systems, but the slope and bedrock depth are favorable. These systems include retention basins and intermittent wetlands. They slow the movement of stormwater to surface waters and also filter a significant portion of pollutants from the stormwater. The fundamental function of these systems is to hold the runoff generated by an area, such as a parking lot, from the first 1 inch of rainfall during a 24-hour storm preceded by 48 hours of no measurable precipitation. Water should not be at the surface continuously, but a water table within the depth of the system is needed to allow the growth of hydrophytic vegetation. Only that part of the soil between depths of 24 and 80 inches is evaluated.

The ratings are based on the soil properties that affect infiltration of the stormwater, construction and maintenance of the system, and public safety and health. Some land shaping may be needed to allow stormwater runoff to accumulate in the system. Saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect the transmission of rainwater. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause

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 specified system (1.00) and the point at which the soil feature is not a limitation (0.00).

The accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer lists the map unit components. These components 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 the one listed for the map unit. The percent composition of each component in a particular map unit is shown to help the user better

lateral seepage and surfacing of the water in downslope areas. Some slopes may become unstable and move upon addition of water

Soils that are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the bottom of the system may adversely affect water quality and public health. In these soils the lined retention system may not adequately filter the stormwater, particularly if the adsorptive capacity of the soil below the system is low. As a result, the ground water may become contaminated. In areas underlain by limestone, solution channels and subsequent subsidence may damage adjacent infrastructure. Also, areas underlain by limestone may be subject to ground-water contamination.

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 system. "Not limited" indicates that the soil has features that are very favorable for the specified system. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified system. 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 system. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

understand the percentage of each map unit that has the rating indicated. Other components with different ratings may occur in each map unit.

The complete ratings list 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.

Retention Systems, Lined						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	Somewhat limited	Pella, cool (85%)	Vegetation establishment (0.05)	0.0	0.5%
527B	Kidami silt loam, 2 to 4 percent slopes	Somewhat limited	Kidami (85%)	Water spreading surface (0.50)	3.9	42.8%
				Water movement (0.14)		
				Vegetation establishment (0.05)		
				Insufficient groundwater (0.01)		
527D2	Kidami loam, 6 to 12 percent slopes, eroded	Somewhat limited	Kidami (85%)	Slope (0.97)	0.1	1.0%
				Water spreading surface (0.50)		
				Water movement (0.14)		
				Insufficient groundwater (0.01)		
				Vegetation establishment (0.00)		
618E	Senachwine silt loam, 12 to 20 percent slopes	Severely limited	Senachwine (85%)	Slope (1.00)	0.5	5.4%
				Water spreading surface (0.50)		
				Water movement (0.14)		
				Insufficient groundwater (0.13)		
				Vegetation establishment (0.00)		
656B	Octagon silt loam, 2 to 4 percent slopes	Somewhat limited	Octagon (85%)	Water spreading surface (0.50)	0.3	3.6%
				Vegetation establishment (0.16)		
				Water movement (0.14)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
				Insufficient groundwater (0.01)		
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	Somewhat limited	Octagon (85%)	Water spreading surface (0.50)	4.3	46.8%
				Vegetation establishment (0.16)		
				Water movement (0.14)		
				Slope (0.12)		
				Insufficient groundwater (0.01)		
Rating		Acres		Percent		
Somewhat limited		8.7		94.6%		
Severely limited		0.5		5.4%		





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## RETENTION SYSTEMS, UNLINED

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Unlined retention systems are stormwater management practices that are placed 3 to 5 feet in the ground, depending on the application. These systems include retention basins and intermittent wetlands. They slow the movement of stormwater to surface waters and also filter a significant portion of pollutants from the stormwater. The fundamental function of these systems is to hold the runoff generated by an area, such as a parking lot, from the first 1 inch of rainfall during a 24-hour storm preceded by 48 hours of no measurable precipitation. Water should not be at the surface continuously, but a water table within the depth of the system is needed to allow the growth of hydrophytic vegetation. Only that part of the soil between depths of 24 and 80 inches is evaluated.

The ratings are based on the soil properties that affect infiltration of the stormwater, construction and maintenance of the system, and public safety and health. Saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect the transmission of rainwater. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance.

Excessive slope may cause lateral seepage and surfacing of the water in downslope areas. Some slopes may become unstable and move upon addition of water.

Soils underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the bottom of the system may adversely affect water quality and public health. In these soils the unlined retention system may not adequately filter the stormwater, particularly if the adsorptive capacity of the soil below the system is low. As a result, the ground water may become contaminated. In areas underlain by limestone, solution channels and subsequent subsidence may damage adjacent infrastructure. Also, areas underlain by limestone may be subject to ground-water contamination.

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 system. "Not limited" indicates that the soil has features that are very favorable for the specified system. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified system. 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 system. 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 specified system (1.00) and the point at which the soil feature is not a limitation (0.00). The accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer lists the map unit components. These components 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 the one listed for the map unit. The percent composition of each component in a particular map unit is shown to help the user better understand the percentage of each map unit that has the rating indicated. Other components with different ratings may occur in each map unit.

The complete ratings list 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.

Retention Systems, Unlined						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
153A	Pella silty clay loam, cool, 0 to 2 percent slopes	Somewhat limited	Pella, cool (85%)	Wetness interferes with installation (0.67)	0.0	0.5%
				Vegetation establishment (0.05)		
527B	Kidami silt loam, 2 to 4 percent slopes	Somewhat limited	Kidami (85%)	Wetness interferes with installation (0.24)	3.9	42.8%
				Water movement (0.14)		
				Insufficient groundwater (0.08)		
				Vegetation establishment (0.05)		
527D2	Kidami loam, 6 to 12 percent slopes, eroded	Somewhat limited	Kidami (85%)	Slope (0.97)	0.1	1.0%
				Wetness interferes with installation (0.24)		
				Water movement (0.14)		
				Insufficient groundwater (0.08)		
				Vegetation establishment (0.00)		
618E	Senachwine silt loam, 12 to 20 percent slopes	Severely limited	Senachwine (85%)	Insufficient groundwater (1.00)	0.5	5.4%
				Slope (1.00)		
				Water movement (0.14)		
				Vegetation establishment (0.00)		
656B	Octagon silt loam, 2 to 4 percent slopes	Somewhat limited	Octagon (85%)	Wetness interferes with installation (0.18)	0.3	3.6%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
				Vegetation establishment (0.16)		
				Water movement (0.14)		
				Insufficient groundwater (0.08)		
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	Somewhat limited	Octagon (85%)	Wetness interferes with installation (0.18)	4.3	46.8%
				Vegetation establishment (0.16)		
				Water movement (0.14)		
				Slope (0.12)		
				Insufficient groundwater (0.08)		
Rating		Acres		Percent		
Somewhat limited		8.7		94.6%		
Severely limited		0.5		5.4%		





## 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.**

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## THREATENED & ENDANGERED SPECIES

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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](http://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
- 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.

Mr. Kolev noted that the previous plat submitted was completed by Al Schmitt, while the current plat was completed by Vanderstappen. There were two tables shown on the previous plat that need to be added to the current one. This contains information about impervious area each plat is allotted. The Scheys noted that they will have Vanderstappen add that information and return the updated plat to zoning.

**Health Department - Kristin Chapman**

Ms. Chapman stated that a note needs to be added to the final plat indicating that the designated and future septic system replacement areas need to be free from encroachments.

**Mover:** Renee Hanlon

**Seconded:** Stoyan Kolev

Motion to approve final plat for Schey's Subdivision with administrative corrections for Stormwater Division and Department of Health.

**Approved by Voice**

**4. SITE PLAN REVIEW**

4.1 Z25-0028 B-3 to B-3C, GLG Solutions Inc, Coral Twp

Dumitru Sandu, Elizabeth Pfiffner and Jim Condon were present.

**Building Division - Steve Gardner**

Mr. Gardner reviewed his comments. He noted that the current codes will need to be followed when applying for building permit. No other comments.

**Planning Division - Renee Hanlon**

Ms. Hanlon reviewed her comments. She noted that the current legal doesn't include E1 or if it does, it will need to be included in the petition and the legal will need to be accurate. Ms. Pfiffner indicated that the surveyor has indicated that E-1 is not within the plat of survey. The entire storage yard area will need to be fenced with a 6' screen fence, the petition can be amended to add the variation request. Before the public hearing, a landscape plan will be needed. Signage and lighting details are also required prior to the public hearing - these can be included on the landscape plan or provided separately.

**Environmental Health- Kristin Chapman**

Ms. Chapman reviewed her comments. Applicant confirmed they will not be washing any vehicles onsite but will be repairing onsite for which they will have a special waste holding tank.

Ms. Chapman noted that a deed restriction or easement may be required if the septic system or well are installed on a parcel separate from the building being served.

She noted that should the number of personnel change, registration with the IEPA may be required due to population control.

The applicant confirmed only the office employees will use the showers, not the truckers. No accommodations will be provided for the truckers.

**Water Resources - Stoyan Kolev**

Mr. Kolev reviewed his comments.

Mr. Kolev stated staff may ask for a drain tile survey due to tiles in the area.

He also advised the applicant provide a buffer off of the parking area. Applicant confirmed there is a five foot flat grassy area with a four foot slope.

**Division of Transportation - Keith McGraw**

Mr. McGraw noted that this road is controlled by IDOT and briefly reviewed some items which IDOT may require. The applicant stated that they submitted layout plan and preliminary geometry to IDOT for right hand turn lane.

**Coral Township - Bob Wagner**

Mr. Wagner stated last time a lane was proposed for a subdivision there, IDOT would not allow access and all access was proposed for Church Rd.

The applicant stated they've been in contact with IDOT and are confident IDOT will accept the proposal.

Mr. Wallen reiterated that the only revisions needed are landscape plan, signage and lighting plans will need to be updated prior to hearing date.

**Mover:** Renee Hanlon

**Second:** Stoyan Kolev

Motion to approve site plan with administrative changes as noted prior to the hearing date.

**Approved by Voice**



IN THE MATTER OF THE APPLICATION OF  
GLG SOLUTIONS LLC., APPLICANT  
FOR AN AMENDMENT OF THE  
UNIFIED DEVELOPMENT ORDINANCE  
OF McHENRY COUNTY, ILLINOIS  
FOR A CONDITIONAL USE WITH VARIATION

LEGAL NOTICE FOR PUBLIC HEARING  
Z25-0028

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 an A CONDITIONAL USE WITH VARIATION for the following described real estate:

Part of the Southeast Quarter of Section 28 and part of the West Half of the Southwest Quarter of Section 27, Township 43 North, Range 6 East of the Third Principal Meridian, being described as follows: Commencing at the Southeast corner of the said West Half of the Southwest Quarter; thence North 00 degrees 19 minutes 22 seconds West, along the East line thereof 502.20 feet to the Southeast corner of the lands described in Document No. 2012R0003758; thence South 89 degrees 40 minutes 32 seconds West along the South line thereof, 721.24 feet to the Northeast corner of the lands described in Document No. 2012R0040890 and the Place of Beginning; thence South 68 degrees 59 minutes 54 seconds West along the Northerly line of said lands, 547.04 feet to the centerline of U.S. Route 20; thence North 21 degrees 00 minutes 06 seconds West along said centerline, 669.41 feet; thence Northerly 141.40 feet along said centerline, being along a curve to the right, having a radius of 5,742.90 feet, the chord of which bears North 20 degrees 17 minutes 47 seconds West, for a length of 141.40 feet; thence North 69 degrees 00 minutes 04 seconds East, 545.30 feet; thence South 21 degrees 00 minutes 06 seconds East, 810.77 feet to the Place of Beginning in McHenry County Illinois. Excepting therefrom the following: Part of the West Half of the Southwest Quarter of Section 27, Township 43 North, Range 6 East of the Third Principal Meridian, being described as follows: Commencing at the Southeast corner of the said West Half of the Southwest Quarter; thence North 00 degrees 19 minutes 22 seconds West, along the East line thereof, 502.20 feet to the Southeast corner of the lands described in Document No. 2012R0003758; thence South 89 degrees 40 minutes 32 seconds West along the South line thereof, 721.24 feet to the Northeast corner of the lands described in Document No. 2012R0040890 and the Place of Beginning; thence South 68 degrees 59 minutes 54 seconds West along the Northerly line of said lands, 113.49 feet; thence North 21 degrees 00 minutes 03 seconds West, 424.59 feet; thence North 04 degrees 37 minutes 33 seconds West, 402.51 feet; thence South 21 degrees 00 minutes 06 seconds East, 810.77 feet to the Place of Beginning, in McHenry County, Illinois. Including the following: Part of the Southeast Quarter of Section 28 and part of the West Half of the Southwest Quarter of Section 27, Township 43 North, Range 6 East of the Third Principal Meridian, being described as follows: Commencing at the Southeast corner of the said West Half of the Southwest Quarter; thence North 00 degrees 19 minutes 22 seconds West, along the East line thereof 502.20 feet to the Southeast corner of the lands described in Document No. 2012R0003758; thence South 89 degrees 40 minutes 32 seconds West along the South line thereof, 721.24 feet to the Northeast corner of the lands described in Document No. 2012R0040890; thence North 21 degrees 00 minutes 06 seconds West, 810.77 feet to the Place of Beginning; thence South 69 degrees 00 minutes 04 seconds West, 545.30 feet to the centerline of U.S. Route 20; thence Northerly 152.53 feet along said centerline, being along a curve to the right, having a radius of 5,742.90 feet, the chord of which bears North 18 degrees 49 minutes 48 seconds West, for a length of 152.53 feet; thence North 72 degrees 13 minutes 49 seconds East, 575.36 feet; thence South

00 degrees 11 minutes 59 seconds East, 98.34 feet, thence South 21 degrees 00 minutes 06 seconds East, 28.08 feet to the Place of Beginning in McHenry County Illinois.

**PINs 17-28-400-012; 17-27-300-028; 17-27-300-026; and 17-28-400-010**

The subject property is located on the east side of S Illinois Route 20 (S Grant Hwy), approximately one thousand four hundred fifty (1,450) feet south of the intersection of S Illinois Route 20 and Church Road with a common address of S Illinois Route 20, Marengo, Illinois, in Coral Township.

The subject property is presently zoned “B-3” General Business District and consists of approximately 10.3 acres with the “B-3” General Business District and “E-1” Estate District zoning to the North and East, “B-3” General Business District to the South, and “PD” Planned Development to the West.

The Applicant is requesting a CONDITIONAL USE of the subject property to allow for a storage yard with variations to allow: 1) outdoor storage areas to be surfaced with grindings instead of the pavement required and 2) the storage of semi-trucks that are not owned or leased by the property owner or tenant as required.

The Applicant and Owner of Record is GLG Solutions LLC. Dumitru Sandu, member and owner, can be reached at 387 Stone Place, Wheeling, Illinois.

A hearing on this Petition will be held on the 4<sup>th</sup> day of September 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 14<sup>TH</sup> DAY OF AUGUST 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](http://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](http://www.mchenrycountyil.gov/county-government/new-meeting-portal) and choosing the “Video” link for the specific meeting date.