



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

June 5, 2024

US Army Corps of Engineers - Chicago
Regulatory Branch
231 South LaSalle Street, Suite 1500
Chicago, Illinois 60604

Attention: Teralyn Pompeii, Regulatory Chief

Subject: New Leaf Energy – **Request for No Permit Required Letter**
Solar Farm Site at Dietrich Road
Hampshire, Kane County, IL
(CBBEL Project No.230040.00028)

Dear Ms. Pompeii:

On behalf of New Leaf Energy, we are requesting a letter of no permit required, or a **letter of no objection**, for a proposed solar farm site at the above referenced location.

Two (2) wetlands were identified within the study area using the U.S. Army Corps of Engineers Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (August 2010). Attached to assist in your review is a copy of a wetland/waters assessment completed for the project site.

No wetlands or waters of the United States will be impacted due to the construction activities occurring on site.

Project Background

New Leaf Energy is proposing the construction of the 4.99 MW-AC ground mounted community solar farm at Dietrich Road in Hampshire, Lake County, IL. Approximately 29.5- acres of a larger 59-acre parent parcel of existing farmland will be disturbed during construction. Before any earthmoving activities begin, silt fence and a stabilized construction entrance/exit will be installed.

After the site has been stabilized, surveying and civil work will begin. This includes any minor grading, the installation of culverts, gravel access drive, and trenching. After the civil work is completed, the solar racking will be staked out and installed, followed by the installation of the modules. Once the modules are completed, the electrical activities will take place. Next, the electrical equipment will be installed, including transformers, switchgear, and utility poles. Once the electrical equipment is installed, the modules and the electrical equipment will be wired.

The last construction activities will include the solar array farm being enclosed with fencing and the site seeded according to the seeding schedule. A low maintenance shade tolerant seed mix (Meadow) will be planted for ground cover.

Developer: New Leaf Energy
Attn: Tony Puljic
55 Technology Drive, Suite #102
Lowell, MA 01851

Location: SE/SW ¼ of Section 1, T42N, R6E
Latitude/Longitude 42.1483141, -88.48932172
Hampshire Township
Kane County, IL

Site Area: +/- 29.5 Acres

To assist in your review, please find the following attached documents.

1. Signed request form
2. Wetland Delineation Report...
3. Site Plan...

If you have any questions regarding this submittal, please don't hesitate to contact me.

Sincerely,



Abby Brown
Environmental Resources Specialist42

U.S. ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT
REQUEST FOR A LETTER OF NO OBJECTION
 For use of this form, see ER 405-1-12; the proponent agency is CELRC-TS-R.

PRIVACY ACT STATEMENT

AUTHORITIES: 33 U.S.C. §§ 403, 1344; 33 C.F.R. pts. 322, 323, 325.
PRINCIPAL PURPOSE: To process requests for a Letter of No Objection from the U.S. Army Corps of Engineers permitting programs under Sections 10 and 404.
ROUTINE USE(s): This information may be used for any one of the Department of Defense blanket routine uses as published in the Federal Register, available at <http://dpcl.d.defense.gov/privacy/sornsindex/blanketroutineuses.aspx>.
MANDATORY OR VOLUNTARY DISCLOSURE AND EFFECT ON INDIVIDUAL NOT PROVIDING INFORMATION: Furnishing all of the information below is voluntary; failure to provide complete information may prevent or delay processing your request.

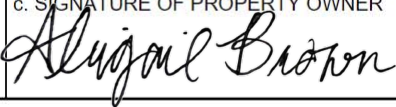
INSTRUCTIONS

THIS FORM CAN BE USED WHEN YOU WANT CONFIRMATION THAT A PROJECT ON YOUR PROPERTY DOES NOT FALL UNDER THE REGULATORY REQUIREMENTS OF THE U.S. ARMY CORPS OF ENGINEERS (USACE). PLEASE SUPPLY THE FOLLOWING INFORMATION AND SUPPORTING DOCUMENTS DESCRIBED BELOW. THIS FORM CAN BE FILLED OUT ONLINE AND THEN PRINTED. IT **MUST BE SIGNED BY THE PROPERTY OWNER** TO BE CONSIDERED A FORMAL REQUEST. SUBMITTING THIS REQUEST AUTHORIZES THE US ARMY CORPS OF ENGINEERS TO FIELD INSPECT THE PROPERTY SITE, IF NECESSARY, TO HELP IN THE DETERMINATION PROCESS. THE PRINTED FORM AND SUPPORTING DOCUMENTS SHOULD BE MAILED TO:

US ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT REGULATORY BRANCH 231 SOUTH LASALLE STREET, SUITE 1500 CHICAGO, ILLINOIS 60604 TELEPHONE: 312.846.5530 FAX: 312.353.4110 E-MAIL: ChicagoRequests@usace.army.mil	ADDITIONALLY, YOU MAY EITHER CALL OUR BRANCH TELEPHONE AT 312.846.5530 OR VIEW OUR WEBSITE AT http://www.lrc.usace.army.mil/Portals/36/docs/Regulatory/newapps.pdf TO DETERMINE WHICH NUMBER AND PROJECT MANAGER HAS BEEN ASSIGNED TO YOUR REQUEST. PROJECT MANAGER CONTACT INFORMATION CAN BE FOUND HERE: http://www.lrc.usace.army.mil/Missions/Regulatory/ContactInfo.aspx . PLEASE CONTACT US IF YOU NEED ANY ASSISTANCE WITH FILLING OUT THIS FORM.
--	--

SECTION I - LOCATION AND INFORMATION ABOUT PROPERTY TO BE SUBJECT TO A LETTER OF NO OBJECTION

1. PROPERTY ADDRESS LOCATION 0 Dietrich Road, Hampshire, Kane County, IL				
2. CITY OR UNINCORPORATED NAME Hampshire		3. STATE IL		4. ZIP CODE 60141
5. COUNTY Kane		6. TOWNSHIP NAME Hampshire		
7. QUARTER SW/SE	8. SECTION 1	9. TOWNSHIP 42N	10. RANGE 6E	11. PRINCIPAL MERIDIAN (PM) 3rd
12a. LATITUDE IN DECIMAL DEGREES °NORTH 42.1483141			b. LONGITUDE IN DECIMAL DEGREES °WEST -88.48932172	
13. SIZE OF PROPERTY IN ACRES +/- 29.5 acres of development			14. TAX PERSONAL IDENTIFICATION NUMBER (PIN) 141940024, 141900017	
15. PRIOR OR RELATED USACE PROJECT NUMBER			16. OTHER DESCRIPTIVE INFORMATION	
17a. IS THE PROPERTY SUBJECT TO A CONSERVATION EASEMENT OR DEED RESTRICTION? <input type="checkbox"/> YES (specify below) <input checked="" type="checkbox"/> NO				
b. IF YES, PLEASE EXPLAIN AND SUBMIT DETAILS OF THE PROJECT AREA. N/A				
18a. WAS THE PROPERTY A SITE FOR MITIGATION PURSUANT TO A PROJECT PREVIOUSLY PERMITTED BY USACE? <input type="checkbox"/> YES (specify below) <input checked="" type="checkbox"/> NO				
b. IF YES, PLEASE EXPLAIN AND SUBMIT DETAILS OF THE PROJECT AREA. N/A				

19a. IS THE PROPERTY NEIGHBORING / ADJACENT TO / BORDERING A PROJECT PREVIOUSLY PERMITTED BY USACE? <input type="checkbox"/> YES (<i>specify below</i>) <input checked="" type="checkbox"/> NO		
b. IF YES, PLEASE EXPLAIN AND SUBMIT THE NAME OF THE PROJECT, THE PERMITTEE'S NAME AND / OR ADDRESS, AND CORPS PERMIT NUMBER, IF AVAILABLE. N/A		
SECTION II - PROPERTY OWNER / REQUESTOR'S CONTACT INFORMATION		
1. PROPERTY OWNER NAME (<i>Last, First MI</i>) (<i>must be an individual</i>)		
2. PROPERTY OWNER COMPANY (<i>if applicable</i>) Quality Real Investors LLC - Quality Land Series		
3. MAILING ADDRESS (<i>Street, Post Office Box, City, State and Zip Code</i>) PO Box 672 Hampshire, IL 60140-0672		
4. DAYTIME TELEPHONE NUMBER 773-406-9565	5. FAX NUMBER	6. E-MAIL ADDRESS tpuljic@newleafenergy.com
IF THE PERSON REQUESTING THE LETTER OF NO OBJECTION IS NOT THE PROPERTY OWNER, PLEASE ALSO SUPPLY THE REQUESTOR'S CONTACT INFORMATION HERE.		
7. REQUESTOR'S NAME (<i>Last, First MI</i>) Brown, Abigail E		
8. COMPANY (<i>if applicable</i>) Christopher B. Burke Engineering, Ltd.		
9. MAILING ADDRESS (<i>Street, Post Office Box, City, State and Zip Code</i>) 9575 W Higgins Rd Rosemont, IL 60018		
10. DAYTIME TELEPHONE NUMBER 847-823-0500	11. FAX NUMBER 847-823-0520	12. E-MAIL ADDRESS abrown@cbbel.com
IF YOU HAVE ANY OF THE FOLLOWING INFORMATION, PLEASE INCLUDE IT WITH YOUR REQUEST: WETLAND DELINEATION, GRADING PLANS, RELEVANT MAPS, TOPOGRAPHIC SURVEY, AND SITE PHOTOGRAPHS. PLEASE IDENTIFY ON THE REQUIRED SITE MAP, PLAT OF SURVEY, OR IN A SEPARATE DRAWING: THE FOOTPRINT, LOCATION, AND TYPE OF POTENTIAL WORK. IT WILL ASSIST US IN DETERMINING IF NO PERMIT IS NECESSARY, AND WILL BE REFERENCED IN OUR RESPONSE LETTER.		
13. PLEASE DESCRIBE THE PROPOSED WORK ON THE PROPERTY New Leaf Energy is proposing the construction of the 4.99 MW-AC ground mounted community solar far at Dietrich Rd, Hampshire, Kane County, IL. Approximately 29.5 acres of a larger 59 acre parcel of existing farmland will be disturbed during construction. There will be no impacts to the wetlands identified on site.		
SECTION III - SIGNATURE CERTIFICATION		
I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS REQUEST FOR A LETTER OF NO OBJECTION IS ACCURATE AND COMPLETE.		
1a. PROPERTY OWNER (<i>Last, First MI</i>) Authorized Agent	b. DATE (YYYYMMDD) 6/5/2024	c. SIGNATURE OF PROPERTY OWNER 

JANUARY 8, 2024

WETLAND ASSESSMENT REPORT

NEW LEAF ENERGY

DIETRICH ROAD SOLAR PV ARRAY PROJECT

KANE COUNTY, ILLINOIS

CBBEL PROJECT No. 230040.00028



CHRISTOPHER B. BURKE ENGINEERING, LTD
9575 WEST HIGGINS ROAD, SUITE 600
Rosemont, IL 60018

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EXECUTIVE SUMMARY

On December 13, 2023, Christopher B. Burke Engineering, Ltd. (CBBEL) completed a field investigation of the Dietrich Road Solar PV Array Project study area to determine the on-site wetland boundaries. This report was prepared to document our findings. Two (2) wetlands were identified within the study area using the U.S. Army Corps of Engineers Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (August 2010). The wetland boundaries were flagged and located with handheld submeter GPS unit. An aerial photograph depicting the boundaries is included as Exhibit 6 in Appendix A. Floristic Inventories can be found in Appendix B. Representative photographs are included in Appendix C. Information collected from the field investigation is listed in the USACE Data Forms found in Appendix D.

Wetland Summary Table:

Delineated Area	Data Point	Community Type	Native Mean C-Value	Native FQAI
Wetland 1	1A	PEM	1.20	2.68
Wetland 2	2A/2C	PEM	2.57	9.62

METHODOLOGY

The Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (August 2010), identifies the mandatory technical criteria for wetland identification. The three essential characteristics of a jurisdictional wetland are hydrophytic vegetation, hydric soils and wetland hydrology as described below:

Hydrophytic Vegetation: The hydrophytic vegetation criterion is based on a separation of plants into five basic groups:

- (1) Obligate wetland plants (OBL) almost always occur (estimated probability >99%) in wetlands under natural conditions;
- (2) Facultative wetland plants (FACW) usually occur in wetlands (estimated probability 67-99%), but occasionally are found in non-wetlands;
- (3) Facultative plants (FAC) are equally likely to occur in wetlands or non-wetlands (estimated probability 34-66%);
- (4) Facultative upland plants (FACU) usually occur in non-wetlands (estimated probability 67-99%), but occasionally are found in wetlands; and
- (5) Obligate upland plants (UPL) almost always occur (estimated probability >99%) in non-wetlands under natural conditions.

Four procedures completed in the following order are used to determine if hydrophytic vegetation is present:



- 1) Rapid Test: The Rapid Test for hydrophytic vegetation is met if all dominant species across all strata are OBL or FACW, or a combination of the two based on a visual assessment.
- 2) Dominance Test: Using the 50/20 Rule, if greater than 50% of the plants present are FAC, FACW, or OBL, the subject area meets the hydrophytic vegetation criterion.
- 3) Prevalence Index: Each plant species in a sampling plot is assigned a numeric value (OBL=1; FACW=2; FAC=3; FACU=4; UPL=5). Based on the sampling data, the absolute cover is calculated for each species in each stratum and using the specified formula, if the Prevalence Index is 3 or less, hydrophytic vegetation is present.
- 4) Morphological Adaptations: Various species may develop physical characteristics after growing in wetland areas such as multi-stemmed trunks, shallow roots and buttressed stems. Hydrophytic vegetation is present if an adaptation is observed in more than 50% of FACU species growing in an area that contains hydric soil and wetland hydrology.

Hydric Soils: Hydric soils are defined in the manual as "soils that are saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part." Field indicators of hydric soil are found in the NTCHS Field Indicators of Hydric Soils in the United States (USDA Natural Resources Conservation Service 2006b or current version).

Wetland Hydrology: The wetland hydrology criterion is often the most difficult to determine. Typically, the presence of water for a portion of the growing season creates anaerobic conditions. Anaerobic conditions lead to the prevalence of wetland plants. Morphological adaptations of plants, drift lines and watermarks are examples of wetland hydrology field indicators.

Waters of the United States: Waters of the United States (waters) are defined as the ordinary high-water mark (OHWM) in non-tidal waters, provided the jurisdiction is not extended by the presence of wetlands. The OHWM refers to the line established by the fluctuations of water. These fluctuations can be indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, or the presence of litter and debris. Waters are typically not vegetated. They typically are located below the Ordinary High Water Mark (OHWM) of a creek, stream, river or lake. There are on occasions exceptions to this generalization.

RESULTS AND DISCUSSION

STUDY AREA

As shown on Exhibit 1 in Appendix A, the study area is located on the north side of Dietrich Road, northwest of the intersection of Dietrich Road and Briar Hill Road in Hampshire, Kane County, Illinois.



Existing Site Conditions

The study area consists of an agricultural field with mowed corn crops and two wetlands.

Wetland 1

Wetland 1, characterized at data point 1A, consisted of a large pond of an unknown depth with a small, emergent wetland fringe and a rocky/muddy shoreline.

Vegetation: At the time of the field investigation, the wetland was dominated by emergent vegetation such as hybrid cattail (*Typha X glauca*) and reed canary grass (*Phalaris arundinacea*). The floristic inventory for the wetland is in Appendix B and the Midwest Region Data Forms are in Appendix D.

Hydrology: At the time of the field visit, positive wetland hydrology was indicated by greater than 12 inches of inundation that is visible on aerial imagery, saturated soils, a high water table, a thin muck surface, aquatic fauna, and the FAC-neutral test.

Soils: Soils at the wetland are mapped as water. However, during the site visit, soil samples at data point 1A showed a thin, mucky clay layer with organic material confirming hydric soil conditions.

Wetland 2

Wetland 2, characterized at data points 2A and 2C, consisted of a depressional area with emergent vegetation located in the north/northwest portion of the project area.

Vegetation: At the time of the field investigation, the wetland was dominated by emergent vegetation such as hybrid cattail (*Typha angustifolia*), reed canary grass (*Phalaris arundinacea*), American water plantain (*Alisma subcordatum*), Allegheny monkey flower (*Mimulus ringens*), and devil's pitchfork (*Bidens frondosa*). The floristic inventory for the wetland is in Appendix B and the Midwest Region Data Forms are in Appendix D.

Hydrology: At the time of the field visit, positive wetland hydrology was indicated by oxidized rhizospheres on living plant roots, geomorphic position, and the FAC-Neutral test.

Soils: Soils at the wetland are mapped as Dunham silty clay loam, a hydric soil. During the field investigation, soil samples showed dark soils with rust-colored concentrations in the pore linings, confirming hydric soil conditions.

REFERENCE MATERIALS

The following reference materials were reviewed and used to assist in the wetland field reconnaissance. They are included as Exhibits 1-5 under Appendix A.

LOCATION MAP

As shown on Exhibit 1 in Appendix A, the study area is located on the north side of Dietrich Road, northwest of the intersection of Dietrich Road and Briar Hill Road in Hampshire, Kane County,



Illinois. Geographically, the study area is located in Section 1, Township 42 North, and Range 6, East of the 3rd Principal Meridian. Lat/Long: 42.1483141, -88.48932172.

NATIONAL WETLAND INVENTORY

The National Wetland Inventory (NWI), Huntley Quadrangle (1983), indicates there is no wetland mapped within the study area (Exhibit 2). The NWI serves only as a large-scale guide and actual wetland locations and types often vary from that mapped.

SOIL SURVEY

The Soil Survey of Kane County, Illinois (2013) was reviewed to determine the location of hydric soils within the study areas (Exhibit 3). The following soil types are mapped within the study area:

- 323C2 - Casco loam, Eroded
- 325B - Dresden silt loam
- 325C2 - Dresden silt loam, Eroded
- 330A - Peotone silty clay loam, Hydric
- 523A - Dunham silty clay loam, Hydric
- 527C2 - Kidami loam, Eroded
- 618E - Senachwine silt loam
- 802B - Orthents, Loamy, Undulating
- 1103A - Houghton much, Undrained, Hydric

UNITED STATES GEOLOGICAL SURVEY

The United States Geological Survey (USGS), Huntley Quadrangle (1993), was reviewed to determine historic local drainage patterns (Exhibit 4). The USGS indicates that surface runoff from the study area drains generally east towards the onsite Wetland 1.

FLOOD INSURANCE RATE MAP

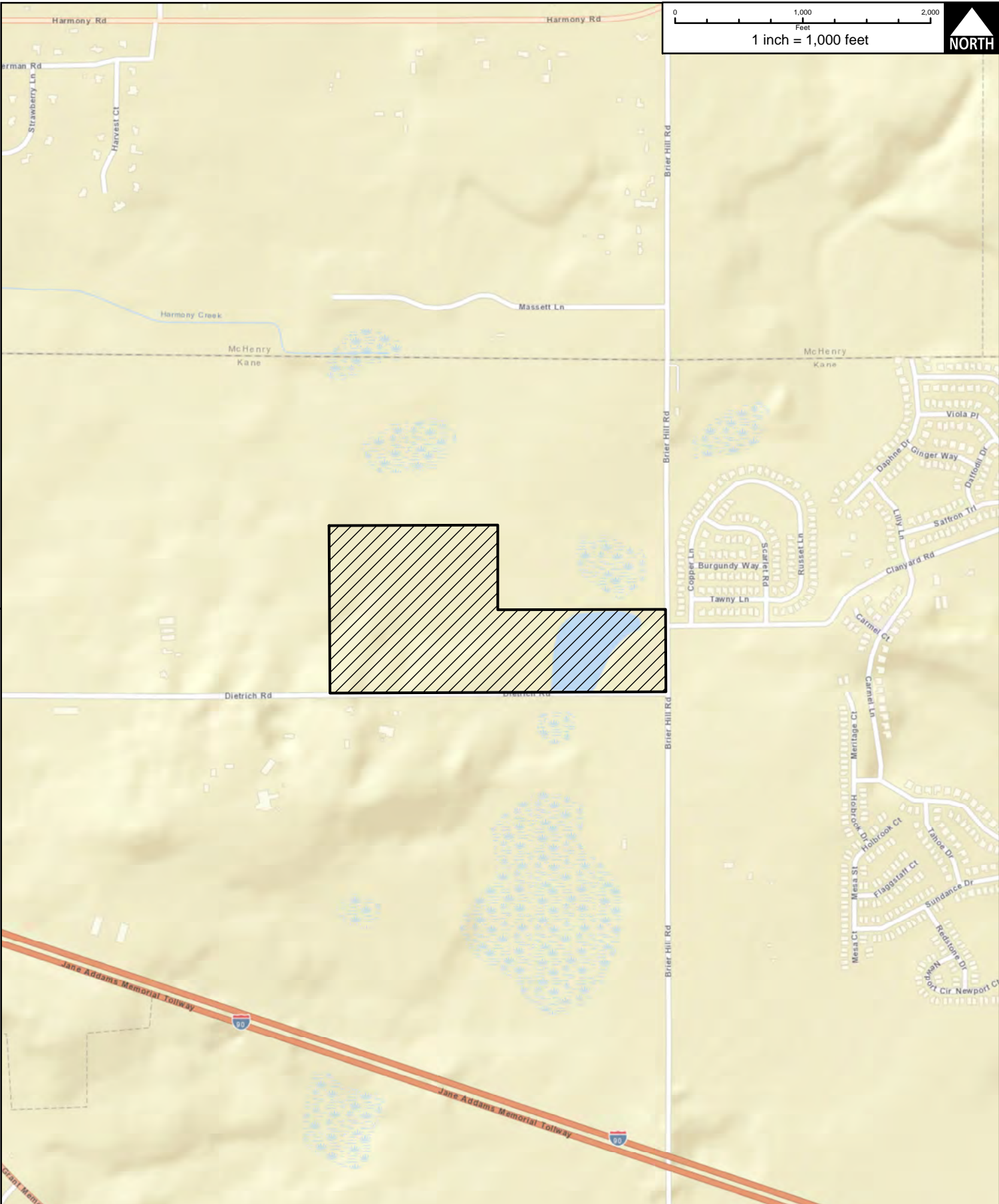
The Flood Insurance Rate Map (FIRM) of Kane County, Illinois and Incorporated Areas, map number 17089C0040H, effective date, August 3, 2009, was reviewed to determine the location of regulatory floodplain within the study areas (Exhibit 5). The FIRM indicates 100-year regulatory floodplain is not mapped within the study area.





APPENDIX A – EXHIBITS





N:\NewLeaf\230040_00028 - 0 Dietrich Rd, Kane, Solar\GIS\Exhibits\230040_00028_LOC.mxd

CLIENT:
NEW LEAF ENERGY

TITLE:
0 DIETRICH RD, HAMPSHIRE LOCATION MAP

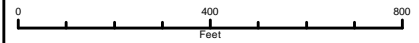
CBBEL# 23-0040.00028
DATE: 5/20/2023

CB CHRISTOPHER B. BURKE Engineering, Ltd.
9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500

DSGN.		SCALE:	1" = 1,000'
DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_LOC		

EXH 1

NOTE: TAKEN FROM THE NATIONAL WETLAND INVENTORY(NWI), HUNTLEY QUADRANGLE(1983)



1 inch = 400 feet



NO WETLAND MAPPED ON-SITE



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
NATIONAL WETLAND INVENTORY**

CBBEL# 23-0040.00028
DATE: 5/20/2023

 **CHRISTOPHER B. BURKE Engineering, Ltd.**
9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500

DSGN.		SCALE:	1" = 400'
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CHKD.	JMA	PLOT DATE:	5/20/2023
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EXH 2

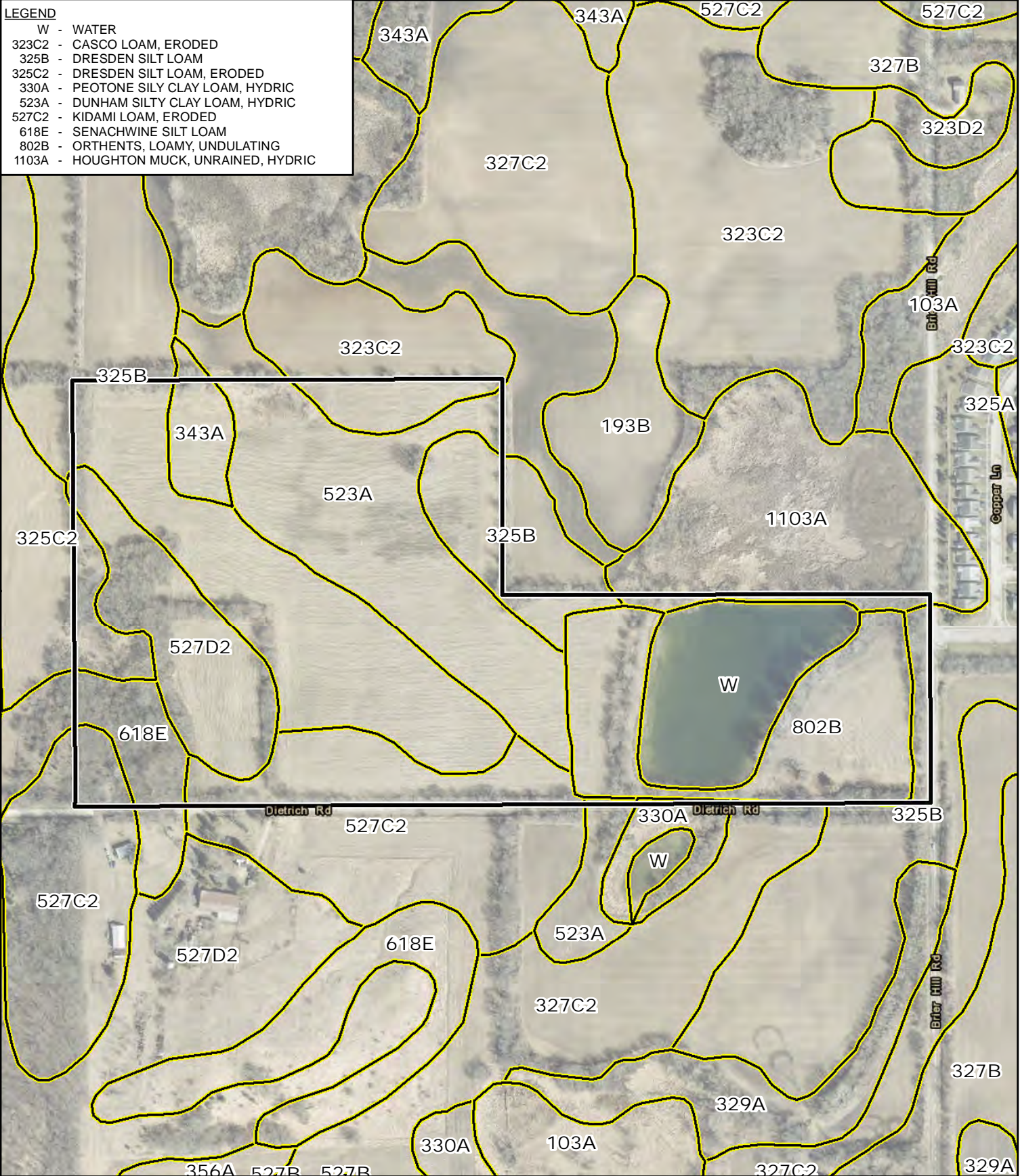
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NOTE: TAKEN FROM THE SOIL SURVEY OF KANE COUNTY, ILLINOIS(2013)



LEGEND

- W - WATER
- 323C2 - CASCO LOAM, ERODED
- 325B - DRESDEN SILT LOAM
- 325C2 - DRESDEN SILT LOAM, ERODED
- 330A - PEOTONE SILY CLAY LOAM, HYDRIC
- 523A - DUNHAM SILTY CLAY LOAM, HYDRIC
- 527C2 - KIDAMI LOAM, ERODED
- 618E - SENACHWINE SILT LOAM
- 802B - ORTHENTS, LOAMY, UNDULATING
- 1103A - HOUGHTON MUCK, UNRAINED, HYDRIC



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
SOIL SURVEY**

CBBEL# 23-0040.00028
DATE: 5/20/2023

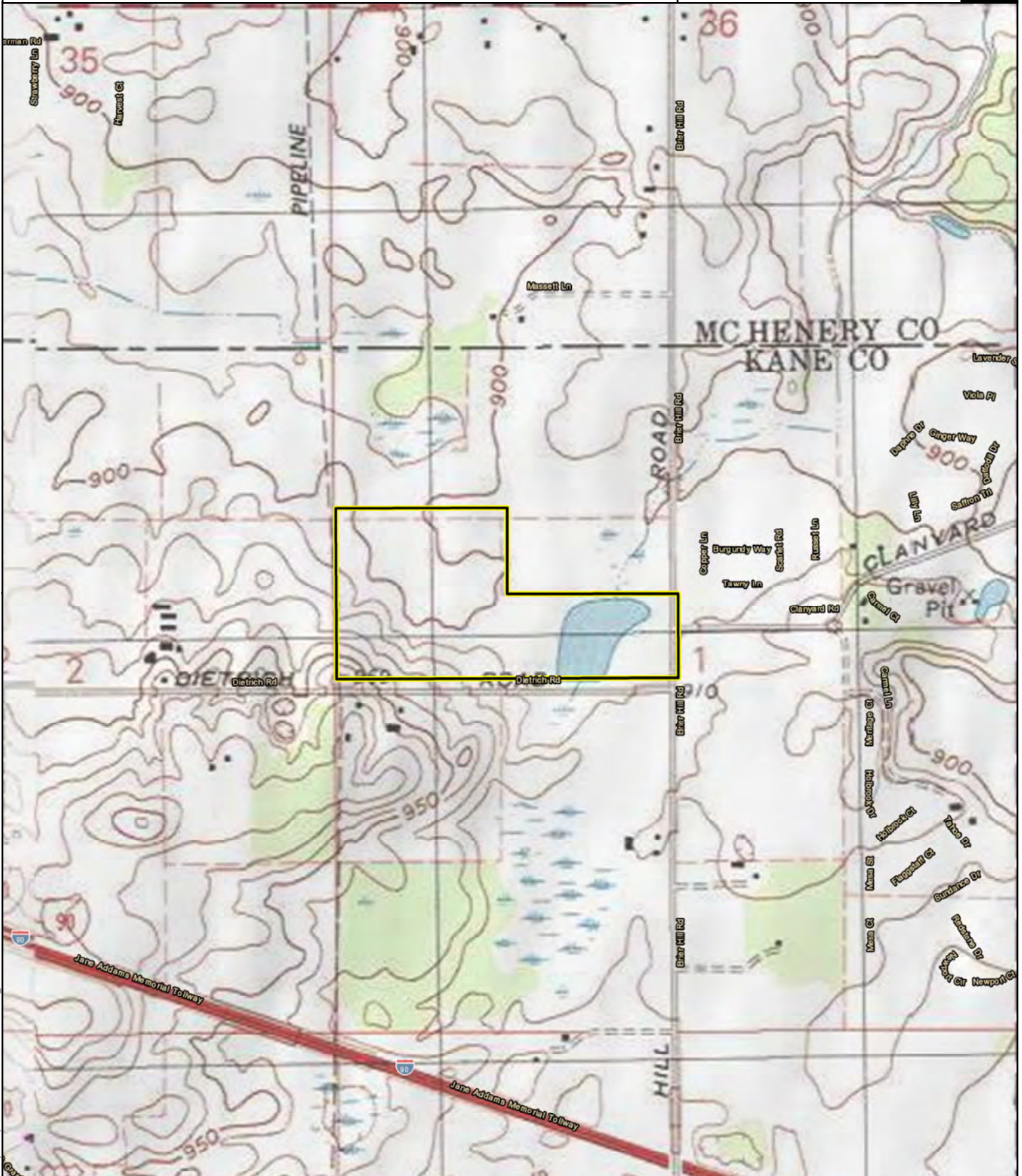
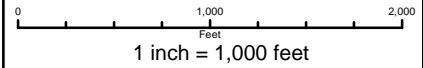
CHRISTOPHER B. BURKE Engineering, Ltd.
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DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
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EXH 3

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NOTE: TAKEN FROM THE UNITED STATES GEOLOGICAL SURVEY(USGS), HUNTLEY QUADRANGLE(1993)



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
UNITED STATES GEOLOGICAL SURVEY**

CBBEL# 23-0040.00028
DATE: 5/20/2023

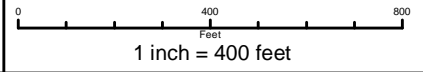
CHRISTOPHER B. BURKE Engineering, Ltd.
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DSGN.		SCALE:	1" = 1,000'
DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_USGS		

EXH 4

N:\NewLeaf\230040.00028 - 0 Dietrich Rd - Kane, Solar\GIS\Exhibits\230040.00028_USGS.mxd

NOTE: TAKEN FROM THE FLOOD INSURANCE RATE MAP(FIRM), KANE COUNTY AND INCORPORATED AREAS, ILLINOIS, MAP NUMBER 17089C0040H, EFFECTIVE DATE: AUGUST 3, 2009



NO FLOODPLAIN MAPPED ON-SITE



CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
FLOOD INSURANCE RATE MAP**

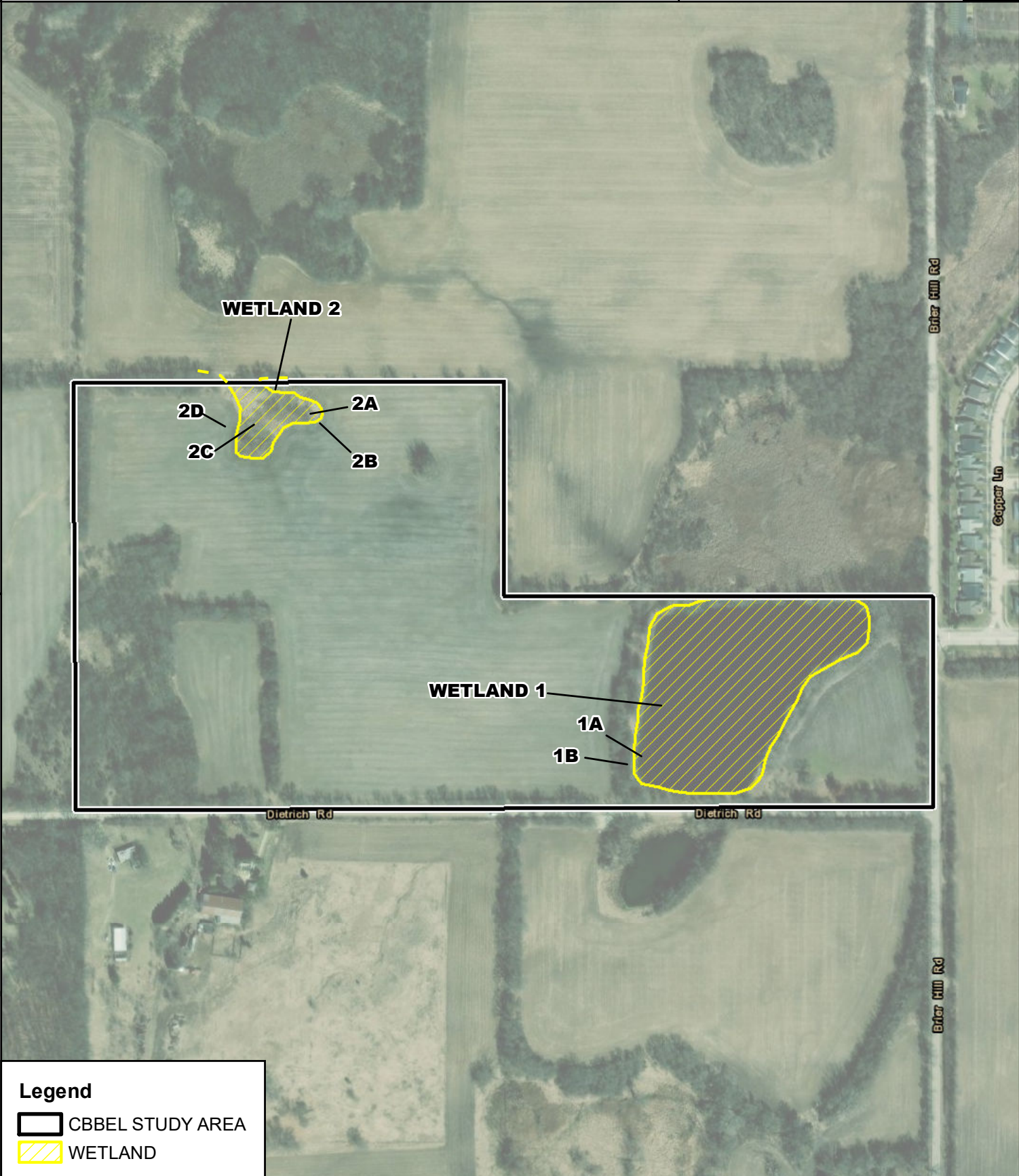
CBBEL# 23-0040.00028
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DSGN.		SCALE:	1" = 400'
DWN.	KEK	USER:	kkopija
CHKD.	JMA	PLOT DATE:	5/20/2023
FILE NAME:	230040.00028_FIRM		

EXH 5

N:\New_Leaf\230040_00028 - 0 Dietrich Rd, Kane, Solar\GIS\Exhibits\230040.00028_FIRM.mxd



Legend

- CBBEL STUDY AREA
- WETLAND

CLIENT:
NEW LEAF ENERGY

TITLE:
**0 DIETRICH RD, HAMPSHIRE
 APPROXIMATE WETLAND DELINEATION**

CBBEL# 23-0040.00028
 DATE: 12/14/2023

CB CHRISTOPHER B. BURKE Engineering, Ltd.
 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500

DSGN.		SCALE:	1" = 400'
DWN.	KEK	USER:	rheller
CHKD.	JMA	PLOT DATE:	12/14/2023
FILE NAME:	230040.00028_AWD		

EXH 6

N:\New_Leaf\230040.00028 - 0 Dietrich Rd, Kane, Sober GIS\Exhibits\230040.00028_AWD.mxd



APPENDIX B – FLORISTIC INVENTORIES

Wetland 1

CONSERVATISM-BASED METRICS		ADDITIONAL METRICS	
MEAN C (NATIVE SPECIES)	1.20	SPECIES RICHNESS (ALL)	10
MEAN C (ALL SPECIES)	0.60	SPECIES RICHNESS (NATIVE)	5
MEAN C (NATIVE TREES)	0.00	% NON-NATIVE WET INDICATOR (ALL)	0.50
MEAN C (NATIVE SHRUBS)	2.00	WET INDICATOR (NATIVE)	-0.50
MEAN C (NATIVE HERBACEOUS)	1.33	% HYDROPHYTE (MIDWEST)	0.00
FQAI (NATIVE SPECIES)	2.68	% NATIVE PERENNIAL	0.90
FQAI (ALL SPECIES)	1.90	% NATIVE ANNUAL	0.40
ADJUSTED FQAI	8.49	% ANNUAL	0.10
% C VALUE 0	0.70	% PERENNIAL	0.10
% C VALUE 1-3	0.30		0.90
% C VALUE 4-6	0.00		
% C VALUE 7-10	0.00		

SPECIES ACRONYM	SPECIES NAME (NWPL/MOHLERBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
PHAAU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
PHRAUSU	Phragmites australis ssp. australis	PHRAGMITES AUSTRALIS	Common Reed	0	FACW	FACW	-1	Grass	Perennial	Adventive
POPDEL	Populus deltoides	POPULUS DELTOIDES	Eastern Cottonwood	0	FAC	FAC	0	Tree	Perennial	Native
RHACAT	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	FAC	0	Shrub	Perennial	Adventive
SALALB	Salix alba	SALIX ALBA	White Willow	0	FACW	FACW	-1	Tree	Perennial	Adventive
SALINT	Salix interior	SALIX INTERIOR	Sandbar Willow	2	FACW	FACW	-1	Shrub	Perennial	Native
EREHIE	Senecio hieraciifolius	ERECTITES HIERACIFOLIA	American Burnweed	0	FAC	FACU	0	Forb	Annual	Native
SOLALT	Solidago altissima	SOLIDAGO ALTISSIMA	Tall Goldenrod	1	FACU	FACU	1	Forb	Perennial	Native
SYMLAN	Symphyotrichum lanceolatum	ASTER SIMPLEX	White Panicle Aster	3	FAC	FACW	0	Forb	Perennial	Native
TYPGLA	Typha X glauca	TYPHA X GLAUCA	Hybrid Cat-Tail	0	OBL	OBL	-2	Forb	Perennial	Adventive

Wetland 2

CONSERVATISM-BASED METRICS		ADDITIONAL METRICS	
MEAN C (NATIVE SPECIES)	2.57	SPECIES RICHNESS (ALL)	18
MEAN C (ALL SPECIES)	2.00	SPECIES RICHNESS (NATIVE)	14
MEAN C (NATIVE TREES)	1.00	% NON-NATIVE	0.22
MEAN C (NATIVE SHRUBS)	2.00	WET INDICATOR (ALL)	-1.00
MEAN C (NATIVE HERBACEOUS)	2.75	WET INDICATOR (NATIVE)	-1.00
FQAI (NATIVE SPECIES)	9.62	% HYDROPHYTE (MIDWEST)	0.94
FQAI (ALL SPECIES)	8.49	% NATIVE PERENNIAL	0.72
ADJUSTED FQAI	22.68	% NATIVE ANNUAL	0.06
% C VALUE 0	0.22	% ANNUAL	0.11
% C VALUE 1-3	0.56	% PERENNIAL	0.89
% C VALUE 4-6	0.22		
% C VALUE 7-10	0.00		

SPECIES ACRONYM	SPECIES NAME (NWPL/MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ACESAI	Acer saccharinum	Acer saccharinum	Silver Maple	1	FACW	FACW	-1	Tree	Perennial	Native
ALISUB	Alisma subcordatum	Alisma subcordatum	American Water-Plantain	3	OBL	OBL	-2	Forb	Perennial	Native
APOCAN	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	FAC	0	Forb	Perennial	Native
BIDFRO	Bidens frondosa	Bidens frondosa	Devil's-Pitchfork	1	FACW	FACW	-1	Forb	Annual	Native
ELYVIR	Elymus virginicus	Elymus virginicus	Virginia Wild Rye	3	FACW	FACW	-1	Grass	Perennial	Native
EPICOL	Epilobium coloratum	Epilobium coloratum	Purple-Leaf Willowherb	3	OBL	OBL	-2	Forb	Perennial	Native
EQUHYE	Equisetum hyemale	Equisetum hyemale	Tall Scouring-Rush	1	FACW	FAC	-1	Fern	Perennial	Native
HELGRO	Helianthus grosseserratus	Helianthus grosseserratus	Saw-Tooth Sunflower	4	FACW	FACW	-1	Forb	Perennial	Native
MIMRIN	Mimulus ringens	Mimulus ringens	Allegheny Monkey-Flower	4	OBL	OBL	-2	Forb	Perennial	Native
PACGLA	Packera glabella	SENECIO GLABELLUS	Cress-Leaf Groundsel	0	FACW	FACW	-1	Forb	Annual	Adventive
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial	Adventive
RUMCRI	Rumex crispus	RUMEX CRISPUS	Curly Dock	0	FAC	FAC	0	Forb	Perennial	Adventive
SALINT	Salix interior	Salix interior	Sandbar Willow	2	FACW	FACW	-1	Shrub	Perennial	Native
BOLFLU	Schoenoplectus fluviatilis	Scirpus fluviatilis; Bolboschoenus fluviatilis	River Club-Rush	4	OBL	OBL	-2	Sedge	Perennial	Native
SOLALT	Solidago altissima	Solidago altissima	Tall Goldenrod	1	FACU	FACU	1	Forb	Perennial	Native
SYMLAN	Symphotrichum lanceolatum	Aster simplex	White Panicked American-Aster	3	FAC	FACW	0	Forb	Perennial	Native
TYPGLA	Typha X glauca	TYPHA X GLAUCA	Hybrid Cat-Tail	0	OBL	OBL	-2	Forb	Perennial	Adventive
VERHAS	Verbena hastata	Verbena hastata	Simpler's-Joy	4	FACW	FACW	-1	Forb	Perennial	Native



APPENDIX C – SITE PHOTOGRAPHS



Photo 1: Wetland 1, facing northeast



Photo 2: Wetland 1, facing northeast



Photo 3: Wetland 1, facing east



Photo 4: Wetland 2, facing southwest



Photo 5: Wetland 2, facing northwest



Photo 6: Wetland 2, facing northeast



Christopher B. Burke Engineering, Ltd.
 9575 W. Higgins Road, Suite 600
 Rosemont, Illinois 60018
 847-823-0500

CLIENT: NEW LEAF ENERGY

PROJECT NO: 230040.00028

1/4/2024

REPRESENTATIVE PHOTOGRAPHS

EXHIBIT: RP



APPENDIX D – DATA FORMS

Project/Site: Dietrich Road City/County: Hampshire, Kane County Sampling Date: 12/13/2023
 Applicant/Owner: New Leaf Energy State: IL Sampling Point: 1A
 Investigator(s): Abby Brown, Ryan Heller, & Marc Taft Section, Township, Range: S1, T42N, R6E
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): 0 Lat: 42.146786 Long: -88.485124 Datum: WGS1984
 Soil Map Unit Name: Water NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
				=Total Cover																	
Sapling/Shrub Stratum	(Plot size: <u>15</u>)																				
1.	_____	_____	_____	_____	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Total % Cover of:</td> <td style="width:50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>70</u></td> <td>x 1 = <u>70</u></td> </tr> <tr> <td>FACW species <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>130</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.30</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>70</u>	x 1 = <u>70</u>	FACW species <u>30</u>	x 2 = <u>60</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>130</u> (B)	Prevalence Index = B/A = <u>1.30</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>70</u>	x 1 = <u>70</u>																				
FACW species <u>30</u>	x 2 = <u>60</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>100</u> (A)	<u>130</u> (B)																				
Prevalence Index = B/A = <u>1.30</u>																					
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
				=Total Cover																	
Herb Stratum	(Plot size: <u>5</u>)																				
1.	<u><i>Typha X glauca</i></u>	<u>70</u>	<u>Yes</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u><i>Phalaris arundinacea</i></u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
				100 =Total Cover																	
Woody Vine Stratum	(Plot size: <u>10</u>)																				
1.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2.	_____	_____	_____	_____																	
				=Total Cover																	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 2/1	100			C	M	Mucky Loam/Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): 12
 Water Table Present? Yes No Depth (inches): 2
 Saturation Present? Yes No Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Midwest Region
 See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024
 Requirement Control Symbol EXEMPT:
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Dietrich Road City/County: Hampshire, Kane County Sampling Date: 12/13/2023
 Applicant/Owner: New Leaf Energy State: IL Sampling Point: 1B
 Investigator(s): Abby Brown, Ryan Heller, & Marc Taft Section, Township, Range: S1, T42N, R6E
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): 2 Lat: 42.146817 Long: -88.485162 Datum: WGS1984
 Soil Map Unit Name: Orthents NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
				=Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>15</u>)				
1.	<u>Lonicera tatarica</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>110</u> x 4 = <u>440</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>115</u> (A) <u>465</u> (B) Prevalence Index = B/A = <u>4.04</u>
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
				<u>15</u> =Total Cover	
Herb Stratum	(Plot size: <u>5</u>)				
1.	<u>Bromus inermis</u>	<u>90</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: ____ 1 - Rapid Test for Hydrophytic Vegetation ____ 2 - Dominance Test is >50% ____ 3 - Prevalence Index is ≤3.0 ¹ ____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<u>Daucus carota</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
3.	<u>Solidago altissima</u>	<u>5</u>	<u>No</u>	<u>FACU</u>	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
				<u>100</u> =Total Cover	
Woody Vine Stratum	(Plot size: <u>10</u>)				
1.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2.	_____	_____	_____	_____	
				=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 3/1	100			C	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Dietrich Road City/County: Hampshire, Kane County Sampling Date: 12/13/2023
 Applicant/Owner: New Leaf Energy State: IL Sampling Point: 2A
 Investigator(s): Abby Brown, Ryan Heller, & Marc Taft Section, Township, Range: S1, T42N, R6E
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): 0 Lat: 42.149800 Long: -88.488805 Datum: WGS1984
 Soil Map Unit Name: Dunham silty clay loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
				=Total Cover																	
Sapling/Shrub Stratum	(Plot size: <u>15</u>)				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Total % Cover of:</td> <td style="width:50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>100</u></td> <td>x 2 = <u>200</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>200</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>100</u>	x 2 = <u>200</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>200</u> (B)	Prevalence Index = B/A = <u>2.00</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>100</u>	x 2 = <u>200</u>																				
FAC species <u>0</u>	x 3 = <u>0</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>100</u> (A)	<u>200</u> (B)																				
Prevalence Index = B/A = <u>2.00</u>																					
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
				=Total Cover																	
Herb Stratum	(Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1.	<u>Phalaris arundinacea</u>	<u>100</u>	<u>Yes</u>	<u>FACW</u>																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
				100 =Total Cover																	
Woody Vine Stratum	(Plot size: <u>10</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
				=Total Cover																	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 2/1	100			C	M	Loamy/Clayey	
8-18	10YR 2/1	85	10YR 4/6	10	C	M	Loamy/Clayey	Prominent redox concentrations
			10YR 5/1	5	D	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? Yes No Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Midwest Region
 See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024
 Requirement Control Symbol EXEMPT:
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Dietrich Road City/County: Hampshire, Kane County Sampling Date: 12/13/2023
 Applicant/Owner: New Leaf Energy State: IL Sampling Point: 2B
 Investigator(s): Abby Brown, Ryan Heller, & Marc Taft Section, Township, Range: S1, T42N, R6E
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): 0 Lat: 42.149865 Long: -88.488687 Datum: WGS1984
 Soil Map Unit Name: Dunham silty clay loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
				=Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>15</u>)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>90</u> x 2 = <u>180</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>100</u> (A) <u>225</u> (B) Prevalence Index = B/A = <u>2.25</u>
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
				=Total Cover	
Herb Stratum	(Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Phalaris arundinacea</u>	<u>90</u>	Yes	FACW	
2.	<u>Rubus occidentalis</u>	<u>5</u>	No	UPL	
3.	<u>Solidago altissima</u>	<u>5</u>	No	FACU	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
				<u>100</u> =Total Cover	
Woody Vine Stratum	(Plot size: <u>10</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
				=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 3/1	100			C	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)</p>	<p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> Coast Prairie Redox (A16)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12)</p> <p><input type="checkbox"/> Red Parent Material (F21)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (F22)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes _____ No <u>X</u></p>
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Remarks:

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (minimum of two required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9)</p> <p><input type="checkbox"/> Aquatic Fauna (B13)</p> <p><input type="checkbox"/> True Aquatic Plants (B14)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Thin Muck Surface (C7)</p> <p><input type="checkbox"/> Gauge or Well Data (D9)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Crayfish Burrows (C8)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test (D5)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____</p> <p>Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____</p> <p>Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____</p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes _____ No <u>X</u></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Midwest Region
 See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024
 Requirement Control Symbol EXEMPT:
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Dietrich Road City/County: Hampshire, Kane County Sampling Date: 12/13/2023
 Applicant/Owner: New Leaf Energy State: IL Sampling Point: 2C
 Investigator(s): Abby Brown, Ryan Heller, & Marc Taft Section, Township, Range: S1, T42N, R6E
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): 0 Lat: 42.149709 Long: -88.489537 Datum: WGS1984
 Soil Map Unit Name: Dunham silty clay loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																																
2.	_____	_____	_____	_____																																	
3.	_____	_____	_____	_____																																	
4.	_____	_____	_____	_____																																	
5.	_____	_____	_____	_____																																	
				=Total Cover																																	
Sapling/Shrub Stratum	(Plot size: <u>15</u>)				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="right" colspan="2">Total % Cover of:</td> <td align="right" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td><td><u>70</u></td> <td>x 1 =</td><td><u>70</u></td> </tr> <tr> <td>FACW species</td><td><u>20</u></td> <td>x 2 =</td><td><u>40</u></td> </tr> <tr> <td>FAC species</td><td><u>10</u></td> <td>x 3 =</td><td><u>30</u></td> </tr> <tr> <td>FACU species</td><td><u>0</u></td> <td>x 4 =</td><td><u>0</u></td> </tr> <tr> <td>UPL species</td><td><u>0</u></td> <td>x 5 =</td><td><u>0</u></td> </tr> <tr> <td>Column Totals:</td><td><u>100</u> (A)</td> <td></td><td><u>140</u> (B)</td> </tr> <tr> <td align="right" colspan="4">Prevalence Index = B/A = <u>1.40</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	<u>70</u>	x 1 =	<u>70</u>	FACW species	<u>20</u>	x 2 =	<u>40</u>	FAC species	<u>10</u>	x 3 =	<u>30</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>100</u> (A)		<u>140</u> (B)	Prevalence Index = B/A = <u>1.40</u>			
Total % Cover of:		Multiply by:																																			
OBL species	<u>70</u>	x 1 =	<u>70</u>																																		
FACW species	<u>20</u>	x 2 =	<u>40</u>																																		
FAC species	<u>10</u>	x 3 =	<u>30</u>																																		
FACU species	<u>0</u>	x 4 =	<u>0</u>																																		
UPL species	<u>0</u>	x 5 =	<u>0</u>																																		
Column Totals:	<u>100</u> (A)		<u>140</u> (B)																																		
Prevalence Index = B/A = <u>1.40</u>																																					
1.	_____	_____	_____	_____																																	
2.	_____	_____	_____	_____																																	
3.	_____	_____	_____	_____																																	
4.	_____	_____	_____	_____																																	
5.	_____	_____	_____	_____																																	
				=Total Cover																																	
Herb Stratum	(Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
1.	<u><i>Typha X glauca</i></u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>																																	
2.	<u><i>Alisma subcordatum</i></u>	<u>15</u>	<u>Yes</u>	<u>OBL</u>																																	
3.	<u><i>Mimulus ringens</i></u>	<u>15</u>	<u>Yes</u>	<u>OBL</u>																																	
4.	<u><i>Packeria glabella</i></u>	<u>5</u>	<u>No</u>	<u>FACW</u>																																	
5.	<u><i>Bidens frondosa</i></u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																																	
6.	<u><i>Rumex crispus</i></u>	<u>10</u>	<u>No</u>	<u>FAC</u>																																	
7.	_____	_____	_____	_____																																	
8.	_____	_____	_____	_____																																	
9.	_____	_____	_____	_____																																	
10.	_____	_____	_____	_____																																	
				<u>100</u> =Total Cover																																	
Woody Vine Stratum	(Plot size: <u>10</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																																
1.	_____	_____	_____	_____																																	
2.	_____	_____	_____	_____																																	
				=Total Cover																																	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2C

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 3/1	80	2.5YR 4/6	20	C	PL/M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input checked="" type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
---	--

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Drift Deposits (B3)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Gauge or Well Data (D9)
	<input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input checked="" type="checkbox"/> Geomorphic Position (D2)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
---	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Midwest Region
 See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024
 Requirement Control Symbol EXEMPT:
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Dietrich Road City/County: Hampshire, Kane County Sampling Date: 12/13/2023
 Applicant/Owner: New Leaf Energy State: IL Sampling Point: 2D
 Investigator(s): Abby Brown, Ryan Heller, & Marc Taft Section, Township, Range: S1, T42N, R6E
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): 2-5% Lat: 42.149722 Long: -88.489756 Datum: WGS1984
 Soil Map Unit Name: Dunham silty clay loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
				=Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>15</u>)				
1.	_____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>100</u> x 5 = <u>500</u> Column Totals: <u>100</u> (A) <u>500</u> (B) Prevalence Index = B/A = <u>5.00</u>
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
				=Total Cover	
Herb Stratum	(Plot size: <u>5</u>)				
1.	<u>Zea mays</u>	<u>100</u>	<u>Yes</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation _____ 2 - Dominance Test is >50% _____ 3 - Prevalence Index is ≤3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
				<u>100</u> =Total Cover	
Woody Vine Stratum	(Plot size: <u>10</u>)				
1.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2.	_____	_____	_____	_____	
				=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2D

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 3/1	100			C	M	Loamy/Clayey	
10-18	10YR 3/1	85	10YR 4/6	5	C	M	Loamy/Clayey	
			10YR 5/1	10	D	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

SITE USE PERMIT SET

0 DIETRICH RD, HAMPSHIRE, IL 60140
0 DIETRICH RD - KANE IL

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SITE USE PERMIT DESIGN PACKAGE
0 DIETRICH RD
HAMPSHIRE IL, 60124

PROJECT NUMBER:
120-0531

REV	DATE	DESCRIPTION	CHECKED	RELEASE LEVEL
	03/26/24	RJQ	NB	SUP

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

T-1.0
TITLE PAGE

GENERAL NOTES

- AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM/PROJECT OWNER.
- WHEN THERE IS A CONFLICT BETWEEN THESE GENERAL NOTES AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS.
- THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A CONSTRUCTION LEVEL DESIGN AND ASSOCIATED DRAWINGS AND DETAILS.
- COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS.
- UNLESS OTHERWISE NOTED, THE DESIGN REPRESENTED ON THESE PLANS IS BASED ON THE INFORMATION AND CRITERIA LISTED IN THE "BASIS OF DESIGN" SECTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH INFORMATION IN PREPARATION OF THE CONSTRUCTION DESIGN.
- THE EXISTING CONDITIONS REPRESENTED ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE INFORMATION AND THE SITE DISCOVERY SUMMARIZED IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF SUCH INFORMATION AND SUPPLEMENT WITH ANY ADDITIONAL REQUIRED INFORMATION.
- UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT SHALL BE CONSIDERED TO BE NEW.
- ALL EQUIPMENT AND COMPONENTS SHALL BE MOUNTED IN COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS, CONSTRUCTION DETAILS, AND/OR PRUDENT INDUSTRY STANDARDS.
- TO THE EXTENT THAT TREES AND OTHER FEATURES AFFECT THE SYSTEM'S PRODUCTION, SUCH PRODUCTION MODELING IS BASED ON THE EXISTING APPROXIMATE HEIGHTS AND LOCATIONS RELATIVE TO THE SYSTEM AND MAY BE IMPACTED AS TREES GROW AND OTHER FEATURES CHANGE.

PROJECT SCOPE

THIS PROJECT CONSISTS OF THE INSTALLATION OF SOLAR MODULES PER THE SYSTEM DESCRIPTION, BELOW. THE MODULES WILL BE INSTALLED ON A SINGLE AXIS TRACKER MOUNTED RACKING SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED IN PARALLEL TO THE INVERTER(S), WHICH CONVERT THE PHOTOVOLTAIC OUTPUT POWER FROM DC TO AC. THE SOLAR ELECTRIC SYSTEM WILL BE INTERCONNECTED WITH THE EXISTING SITE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE APPLICABLE ELECTRICAL CODE AND COMED REQUIREMENTS.

SYSTEM DESCRIPTION

RACKING	ATI DURATRACK HZ V3	SYSTEM SIZE (KWAC)	4,990 KWAC
AZIMUTH	180	INVERTER(S)	(20) SOLECTRIA XGI 1500-250 (POWER LIMITED TO 249.5 KVA)
TILT ANGLE	+/- 52	CEC EFFICIENCY	98.5 %

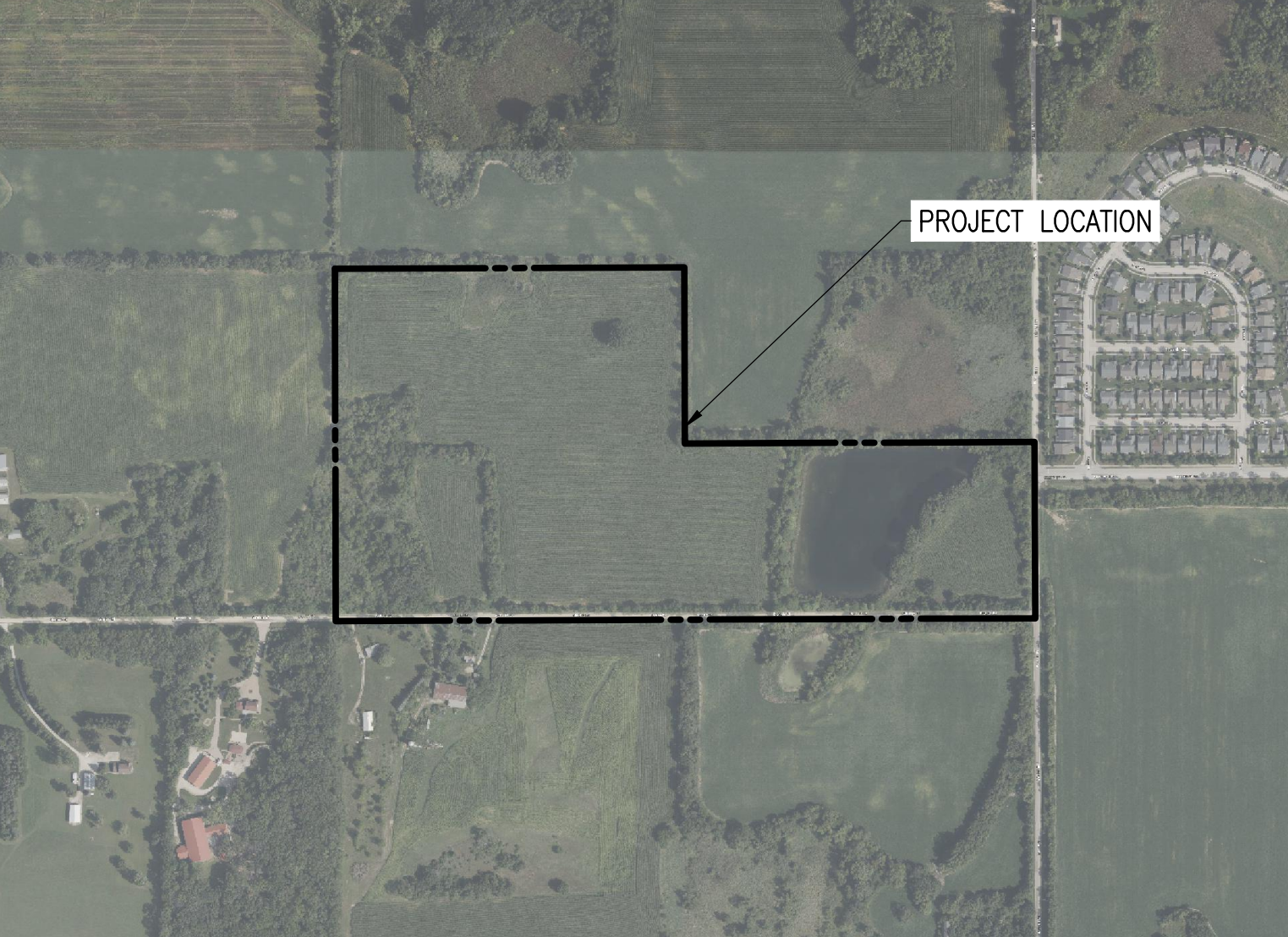
SPECIAL INSPECTIONS

GENERAL CONSTRUCTION SPECIAL INSPECTIONS	CODE/SECTION
1. FIRE RESISTANT PENETRATIONS AND JOINTS	BC 1704.27
2. ENERGY CODE COMPLIANCE INSPECTIONS	BC 110.3.5
FINAL	

LOCATION MAP



AERIAL VIEW



APPLICABLE CODES AND STANDARDS

- 2008 NATIONAL ELECTRICAL CODE
INTERNATIONAL BUILDING CODE
UL-1703 - SOLAR MODULES
UL-1741 - INVERTERS, COMBINER BOXES
UL-2703 - RACKING MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES
UL-3703 - STANDARD FOR SOLAR TRACKERS
- UL-1642 - STANDARD FOR LITHIUM BATTERIES
UL-1973 - STANDARD FOR BATTERIES FOR USE IN LIGHT ELECTRIC RAIL (LER) APPLICATIONS AND STATIONARY APPLICATION
UL-9540 - STANDARD FOR ENERGY STORAGE SYSTEM AND EQUIPMENT

PROJECT DIRECTORY

SYSTEM / PROJECT OWNER DIETRICH ROAD SOLAR 1, LLC 800-818-5249 55 TECHNOLOGY DR., SUITE #102 LOWELL, MA 01851	CIVIL ENGINEER FIRM: NEW LEAF ENERGY, INC CONTACT: XXXXXX PHONE: XXX-XXX-XXXX
LAND OWNER / HOST CAROL & WALTER QUANDT PO BOX 672 HAMPSHIRE, IL 60124	DESIGN ENGINEER FIRM: NEW LEAF ENERGY, INC. CONTACT: RYAN QUINN PHONE: (949) 668-1140
AUTHORITY HAVING JURISDICTION KANE COUNTY 719 S. BATAVIA AVE., BLDG A GENEVA, IL 60134	
UTILITY COMED	

GENERAL ABBREVIATIONS

(E) EXISTING	MFR MANUFACTURER
AHJ AUTHORITY HAVING JURISDICTION	MOD SOLAR MODULE
AL ALUMINUM	NS NORTH-SOUTH
APPROX APPROXIMATE	NTS NOT TO SCALE
ARY ARRAY	OAE OR APPROVED EQUAL
BLDG BUILDING	OC ON CENTER
NLE NEW LEAF ENERGY	OD OUTSIDE DIAMETER
CL CENTERLINE	OFCI OWNER FURNISHED CONTRACTOR INSTALLED
DAS DATA ACQUISITION SYSTEM	PCS POWER CONVERSION SYSTEM
DIA DIAMETER	PV PHOTOVOLTAIC
DO DITTO	PVC POLY VINYL CHLORIDE
EW EAST-WEST	SCH SCHEDULE
ESS ENERGY STORAGE SYSTEM	SS STAINLESS STEEL
ESU ENERGY STORAGE UNIT	SSS SOLAR SUPPORT STRUCTURE
FBO FURNISHED BY OTHERS	STC STANDARD TEST CONDITIONS
FF FORWARD FACING	TBD TO BE DETERMINED
GALV GALVANIZED	TP TAMPER PROOF
HDG HOT DIP GALVANIZED	TYP TYPICAL
HVAC HEATING VENTILATION AND AIR CONDITIONING	UON UNLESS OTHERWISE NOTED
ID INSIDE DIAMETER	VIF VERIFY IN FIELD
	WP WEATHER PROOF

REV 1.0

T-1.0
TITLE PAGE

GENERAL CIVIL NOTES

- APPROVALS**
- ORDER OF CONDITIONS (OOC) DATED MONTH DAY, YEAR.
 - SPECIAL PERMIT #_____ DATED MONTH DAY, YEAR.
 - SITE PLAN APPROVAL #_____ DATED MONTH DAY, YEAR.
- GENERAL NOTES**
- AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM OWNER. "SUBCONTRACTOR" IS THE EPC PROVIDER'S INSTALLATION SUBCONTRACTORS (INCLUDING SITE WORK SUBCONTRACTOR) AND CIVIL ENGINEER OF RECORD (CEOR) IS THE EPC PROVIDER'S DESIGNATED CIVIL ENGINEER.
 - EXISTING CONDITIONS SURVEY INFORMATION WAS PREPARED BY _____ PERFORMED ON _____. HORIZONTAL DATUM IS REFERENCED TO THE _____. VERTICAL DATUM IS REFERENCED TO _____.
 - THERE IS NO GUARANTEE THAT ALL THE EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT LIMITS ARE ON THIS DRAWING. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK. A DIG SAFE TICKET NUMBER INDICATING ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED SHALL BE OBTAINED PRIOR TO COMMENCING WORK. CONTACT "JULIE" AT 1-800-892-0123 AND PROVIDE 72 HOURS NOTICE TO RECEIVE A TICKET NUMBER.
 - THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.
 - TOWN APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES.
 - PRIOR TO CONSTRUCTING THE SITE ENTRANCES ONTO DIETRICH ROAD, THE CONTRACTOR SHALL OBTAIN A HIGHWAY/DRIVEWAY PERMIT FROM THE APPLICABLE AHJ.
 - SUBCONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
 - ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR/CEOR FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
 - AREAS USED AS FOR PARKING DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS INCLUDING, BUT NOT LIMITED TO, REGRADING, LOAMING AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS, AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.

- SITE PREPARATION NOTES**
- AREAS DESIGNATED FOR TREE CUTTING SHALL BE CUT ONLY. NO GRUBBING OR STRIPPING OF TOPSOIL IS NECESSARY UNLESS SPECIFICALLY SHOWN OTHERWISE AND APPROVAL HAS BEEN GIVEN BY THE CONTRACTOR.
 - TREE CLEARING AND STUMP REMOVAL SHALL BE IN ACCORDANCE WITH APPROVED LOCAL, STATE, AND FEDERAL PERMITS. TREES TO BE REMOVED SHALL BE MARKED BY THE CONTRACTOR'S PROJECT MANAGER OR SITE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK ON-SITE.
 - SEASONAL TREE CLEARING RESTRICTIONS MAY BE REQUIRED FOR ENDANGERED SPECIES PROTECTION. THE CONTRACTOR SHALL REFER TO THE TREE CLEARING PLAN FOR ANY RESTRICTIONS.
 - THE SUBCONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SITE CONDITIONS TO REMAIN THAT ARE DUE TO SUBCONTRACTOR(S) OPERATIONS.
 - ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE SUBCONTRACTOR(S).
 - THE SUBCONTRACTOR(S) SHALL BE RESPONSIBLE FOR COORDINATING THEIR EFFORTS WITH ALL TRADES.
 - THE SUBCONTRACTOR(S) SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
 - TEMPORARY CONSTRUCTION HAUL ROADS SHALL BE USED DURING CONSTRUCTION IF DEEMED NECESSARY BY THE CONTRACTOR. THE USE OF SEPARATION FABRICS SHALL BE USED TO FACILITATE FUTURE REMOVAL AND RECOVERY OF GRANULAR MATERIALS. HAUL ROADS SHALL BE MAINTAINED DURING CONSTRUCTION WITH APPROPRIATE EROSION CONTROL AND STORMWATER REDUCTION MEASURES. ONCE REMOVED, THE SUB-BASE AREA SHOULD BE DECOMPACTED WITH A YORK RAKE, LOAM REPLACED, AND RESEDED.
 - THE SITE ACCESS ROADS ARE DESIGNED TO MEET STATE FIRE CODE FOR FIRE TRUCK ACCESS. MEANS AND METHODS FOR ACCOMMODATING LARGER CONSTRUCTION DELIVERY VEHICLES MUST BE DETERMINED BY THE CONTRACTOR.
 - THE PROPOSED ROAD DESIGN SHOWN IN THESE PLANS SHALL BE CONSIDERED THE FINAL DESIGN CONDITION. ADDITIONAL MEANS AND METHODS OF CONSTRUCTION DEEMED NECESSARY BY THE OWNER OR CONTRACTOR SHALL BE DESIGNED BY OTHERS AND INCLUDED IN THE INITIAL EPC BID PRICE (INCLUDING, BUT NOT LIMITED TO: TEMPORARY HAUL ROADS, WIDENED OR LENGTHENED ROADS AND TURN OUT AREAS FOR LARGER CONSTRUCTION AND DELIVERY VEHICLES, TEMPORARY PARKING AND LAYDOWN AREAS, MODIFIED GRADING TO SUPPORT CONSTRUCTION AND DELIVERY VEHICLES, ETC.).

- EROSION AND SEDIMENT CONTROL MEASURES**
- A NPDES PERMIT SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH DISTURBANCE.
 - EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
 - SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE TOWN OF HAMPSHIRE OR THEIR REPRESENTATIVE AND THE CONTRACTOR/CEOR BEFORE CONSTRUCTION BEGINS.
 - STRAW BALES AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
 - DISTURBED AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED WITHIN 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING.
 - PRIOR TO SEEDING, ACCESS AISLES, TEMPORARY STAGING, STORAGE, AND PARKING AREAS ARE TO BE DE-COMPACTED AND RESTORED PER THE SWPPP.
 - STABILIZE SLOPES GREATER THAN 3:1 (HORIZONTAL: VERTICAL) WITH SEED, SECURED GEOTEXTILE

- FABRIC, SPRAYED COMPOST BLANKET, OR RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
- SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS.
 - CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS, SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION.
 - SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE.
 - AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE SUBCONTRACTOR(S) SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AT THE CONTRACTOR/CEOR DIRECTION.
 - AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE SUBCONTRACTOR(S) SHALL GRADE AND SEED AREA OF TEMPORARY EROSION CONTROL MEASURE.
 - DAMAGED OR DETERIORATED EROSION AND SEDIMENT CONTROL ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/CEOR.
 - THE CONTRACTOR'S SITE SUPERINTENDENT IS RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES TWICE EVERY SEVEN (7) CALENDAR DAYS (IF GREATER THAN 5 ACRES IS TO BE DISTURBED AT ANY ONE TIME) OR ONCE EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION, IN ACCORDANCE WITH THE NPDES REQUIREMENTS. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS.
 - PIPE OUTLETS (IF ANY) SHALL BE STABILIZED WITH STONE. REFER TO DETAILS.
 - WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
 - WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION/SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY CONTRACTOR/CEOR.
 - GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
 - NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
 - THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
 - EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
 - CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT DUST FROM FORMING.
 - EROSION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS IS INTENDED TO CONVEY MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO PREVENT SOIL EROSION AND TO COMPLY WITH THE PROJECT'S NPDES PERMIT STORMWATER POLLUTION PREVENTION PLAN.

- LAYOUT AND MATERIAL NOTES**
- THE CONTRACTOR SHALL HAVE PERIMETER FENCE, ELECTRICAL TRENCHES, AND RACKING STAKED OUT BY A LICENSED LAND SURVEYOR PRIOR TO ANY INSTALLATION OF RACKING OR TRENCHES.
 - EXCESS TRENCH MATERIAL SHALL BE PLACED ON THE SIDES OF THE TRENCH AND PLACED AT OR NEAR THE SAME LOCATION AS WHERE EXCAVATED. TOPSOIL REMOVED SHALL BE PLACED ON TOP AND LIGHTLY COMPACTED.
 - SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRIC CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.

- GRADING NOTES**
- WHERE PROPOSED GRADES MEET EXISTING GRADES, SUBCONTRACTOR(S) SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
 - CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES, PUBLIC ROADWAYS, AND ELECTRICAL EQUIPMENT AREAS.


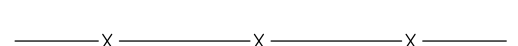






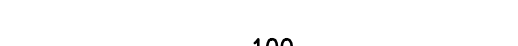
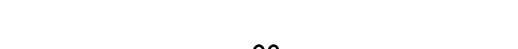


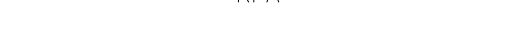


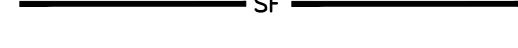






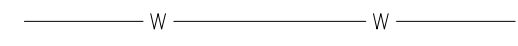
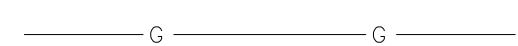

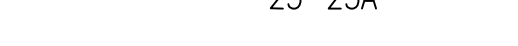




- PLANTING NOTES**
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN ON THE DRAWINGS.
 - MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
 - PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS TO ORIGINAL GRADES BEFORE DIGGING.
 - PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
 - PLANT SIZE AND QUANTITY SHALL NOT CHANGE WITHOUT APPROVAL OF CONTRACTOR/CEOR.

ABBREVIATIONS

- | | |
|------|--|
| BIT | BITUMINOUS |
| BMP | BEST MANAGEMENT PRACTICE |
| BVW | BORDERING VEGETATED WETLANDS |
| CB | CONCRETE BOUND |
| CONC | CONCRETE |
| CMP | CORRUGATED METAL PIPE |
| CPP | CORRUGATED PLASTIC PIPE |
| DH | DRILL HOLE |
| DIP | DUCTILE IRON PIPE |
| DMH | DRAIN MANHOLE |
| ECB | EROSION CONTROL BARRIER |
| FES | FLARED END SECTION |
| FH | FIRE HYDRANT |
| FND | FOUND |
| GG | GAS GATE |
| HDPE | HIGH-DENSITY POLYETHYLENE |
| HW | HEADWALL |
| ILSF | ISOLATED LANDS SUBJECT TO FLOODING |
| IP | IRON PIPE |
| ISW | ISOLATED WETLANDS (FEDERAL JURISDICTION) |
| LA | LANDSCAPED AREA |
| LOW | LIMIT OF WORK |
| N/F | NOW OR FORMERLY |
| NTS | NOT TO SCALE |
| OCS | OUTLET CONTROL STRUCTURE |
| OHW | OVERHEAD WIRE |
| RCP | REINFORCED CONCRETE PIPE |
| RET | RETAINING |
| ROW | RIGHT-OF-WAY |
| SB | STONE BOUND |
| TEL | TELEPHONE CABLE |
| TYP | TYPICAL |
| UP | UTILITY POLE |
| WG | WATER GATE |

REV 1.1

LEGEND

- | | |
|---|--------------------------------|
|  | ROAD (GRAVEL) |
|  | FENCE LINE |
|  | PROPERTY LINE |
|  | FLOW DIRECTION |
|  | BANK LINE/FLAG |
|  | WETLAND LINE/FLAG |
|  | (E) MAJOR CONTOUR |
|  | (E) MINOR CONTOUR |
|  | PROPOSED MAJOR CONTOUR |
|  | PROPOSED MINOR CONTOUR |
|  | WETLAND BUFFER ZONE |
|  | RIVERFRONT AREA |
|  | 100-YEAR FLOOD HAZARD AREA |
|  | TREELINE |
|  | SILT FENCE |
|  | SILT SOCK |
|  | STORM PIPE |
|  | ELECTRICAL TRENCH |
|  | OVERHEAD ELECTRIC |
|  | SEWER LINE |
|  | WATER LINE |
|  | GAS MAIN |
|  | 23-23A ASSESSORS MAP-LOT |
|  | SIGN |
|  | UTILITY POLE (WITH GUY ANCHOR) |
|  | HYDRANT |
|  | WATER VALVE |
|  | INDIVIDUAL TREE |
|  | PROPERTY MARKERS |
|  | FOUND REBAR |

NOTE: ITALIC FONTS INDICATE EXISTING CONDITIONS. STANDARD FONTS INDICATE PROPOSED CONDITIONS.

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**SITE USE PERMIT DESIGN PACKAGE
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HAMPSHIRE IL, 60124**

PROJECT NUMBER:
120-0531

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	03/26/24	RJQ	NB	SUP

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-0.0

CIVIL NOTES

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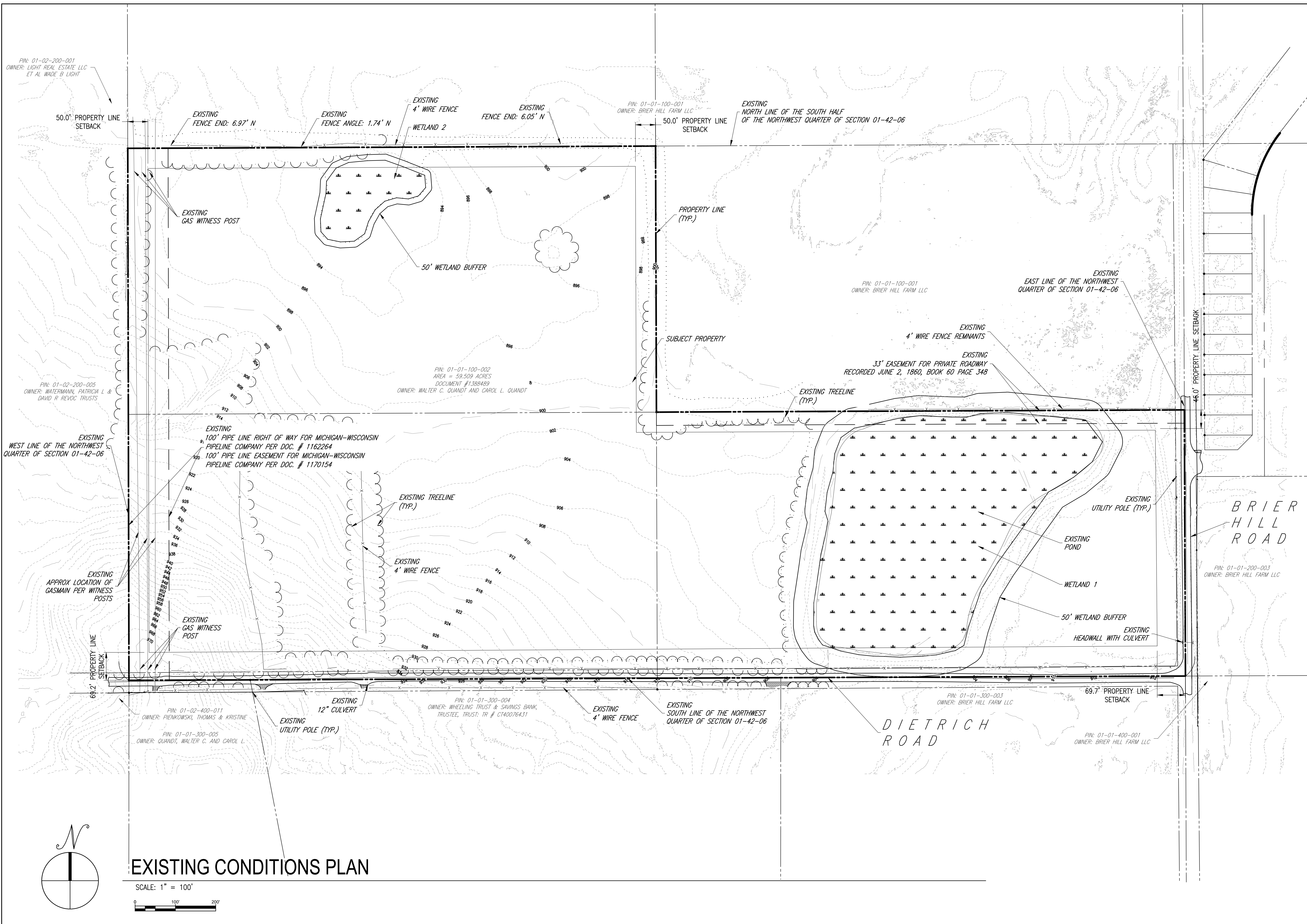
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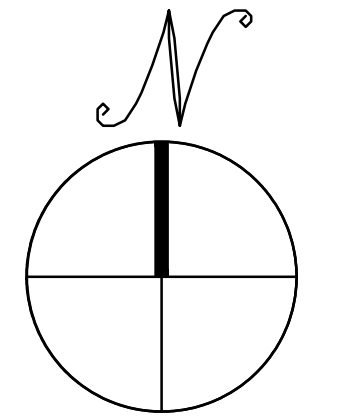
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-1.0
EXISTING CONDITIONS PLAN



EXISTING CONDITIONS PLAN

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



PIN: 01-02-200-001
OWNER: LIGHT REAL ESTATE LLC
ET AL WADE B LIGHT

EXISTING FENCE END: 6.97' N

EXISTING FENCE ANGLE: 1.74' N

EXISTING 4' WIRE FENCE

EXISTING FENCE END: 6.05' N

PIN: 01-01-100-001
OWNER: BRIER HILL FARM LLC

EXISTING NORTH LINE OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF SECTION 01-42-06

50.0' PROPERTY LINE SETBACK

50.0' PROPERTY LINE SETBACK

EXISTING GAS WITNESS POST

50' WETLAND BUFFER

PROPERTY LINE (TYP.)

PIN: 01-01-100-001
OWNER: BRIER HILL FARM LLC

EXISTING EAST LINE OF THE NORTHWEST QUARTER OF SECTION 01-42-06

PIN: 01-02-200-005
OWNER: WATERMANN, PATRICIA L & DAVID R REVOC TRUSTS

PIN: 01-01-100-002
AREA = 59,509 ACRES
DOCUMENT #1388489
OWNER: WALTER C. QUANDT AND CAROL L. QUANDT

EXISTING 4' WIRE FENCE REMNANTS

EXISTING 33' EASEMENT FOR PRIVATE ROADWAY
RECORDED JUNE 2, 1860, BOOK 60 PAGE 348

SUBJECT PROPERTY

EXISTING TREELINE (TYP.)

EXISTING WEST LINE OF THE NORTHWEST QUARTER OF SECTION 01-42-06

EXISTING 100' PIPE LINE RIGHT OF WAY FOR MICHIGAN-WISCONSIN PIPELINE COMPANY PER DOC. # 1162264
100' PIPE LINE EASEMENT FOR MICHIGAN-WISCONSIN PIPELINE COMPANY PER DOC. # 1170154

EXISTING TREELINE (TYP.)

EXISTING 4' WIRE FENCE

EXISTING UTILITY POLE (TYP.)

EXISTING POND

WETLAND 1

50' WETLAND BUFFER

EXISTING HEADWALL WITH CULVERT

BRIER HILL ROAD

PIN: 01-01-200-003
OWNER: BRIER HILL FARM LLC

EXISTING APPROX LOCATION OF GASMAIN PER WITNESS POSTS

EXISTING GAS WITNESS POST

PIN: 01-02-400-011
OWNER: PIENKOWSKI, THOMAS & KRISTINE

PIN: 01-01-300-005
OWNER: QUANDT, WALTER C. AND CAROL L.

EXISTING 12" CULVERT

PIN: 01-01-300-004
OWNER: WHEELING TRUST & SAVINGS BANK, TRUSTEE, TRUST TR # C140076431

EXISTING 4' WIRE FENCE

EXISTING SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 01-42-06

PIN: 01-01-300-003
OWNER: BRIER HILL FARM LLC

PIN: 01-01-400-001
OWNER: BRIER HILL FARM LLC

69.7' PROPERTY LINE SETBACK

DIETRICH ROAD

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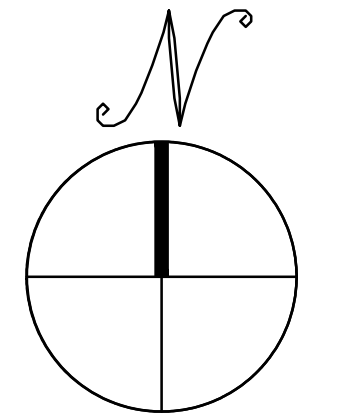
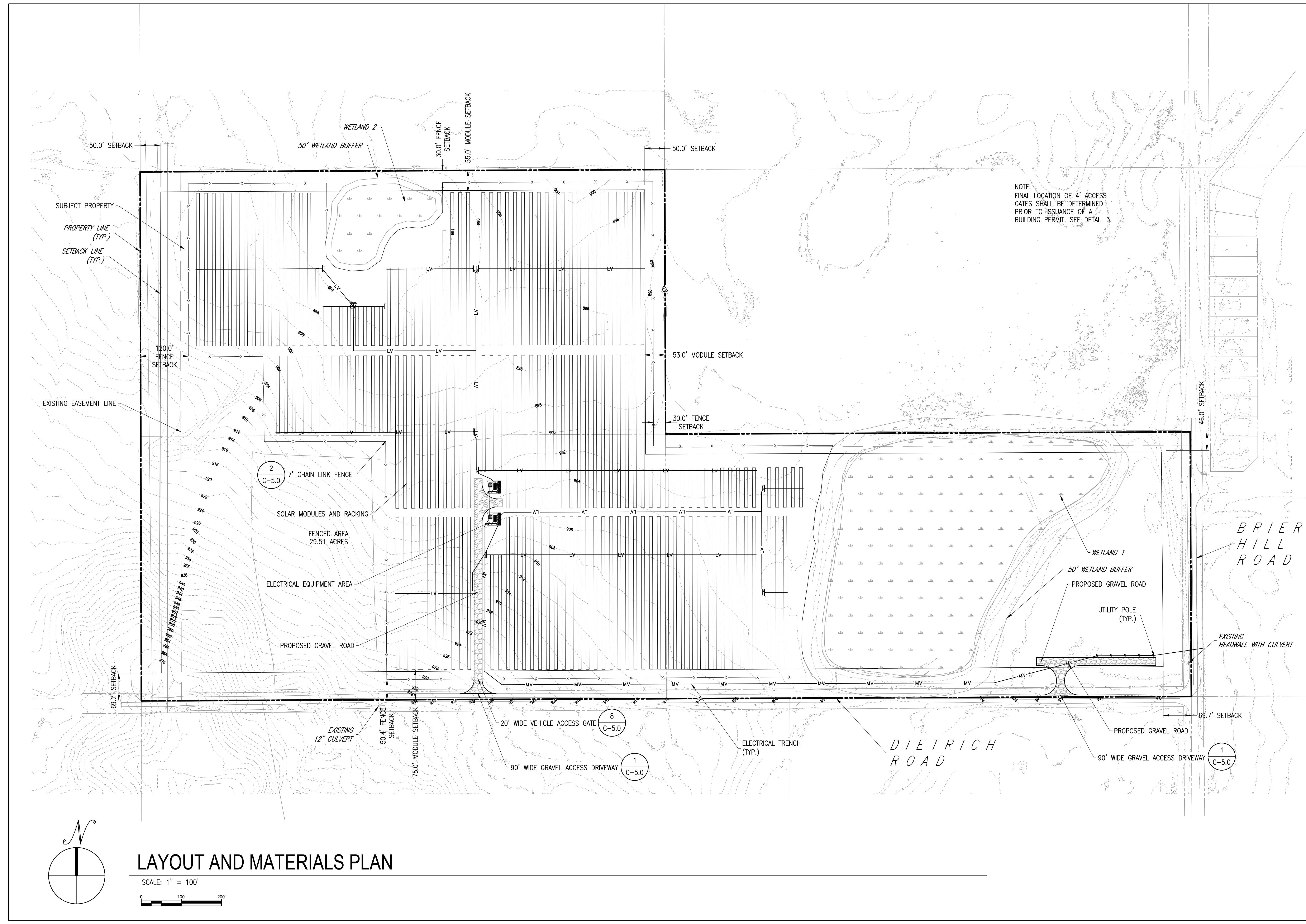
SITE USE PERMIT DESIGN PACKAGE
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HAMPSHIRE IL, 60124

PROJECT NUMBER:
120-0531

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL

SCALE: 1" = 100'
ARCH D 24" X 36"

C-2.0
LAYOUT AND MATERIALS PLAN



LAYOUT AND MATERIALS PLAN

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

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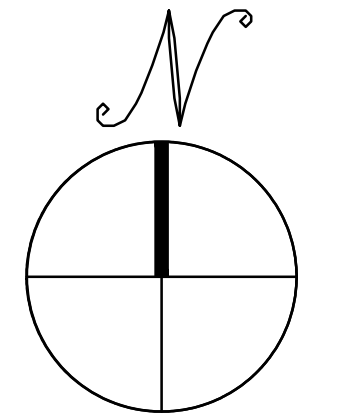
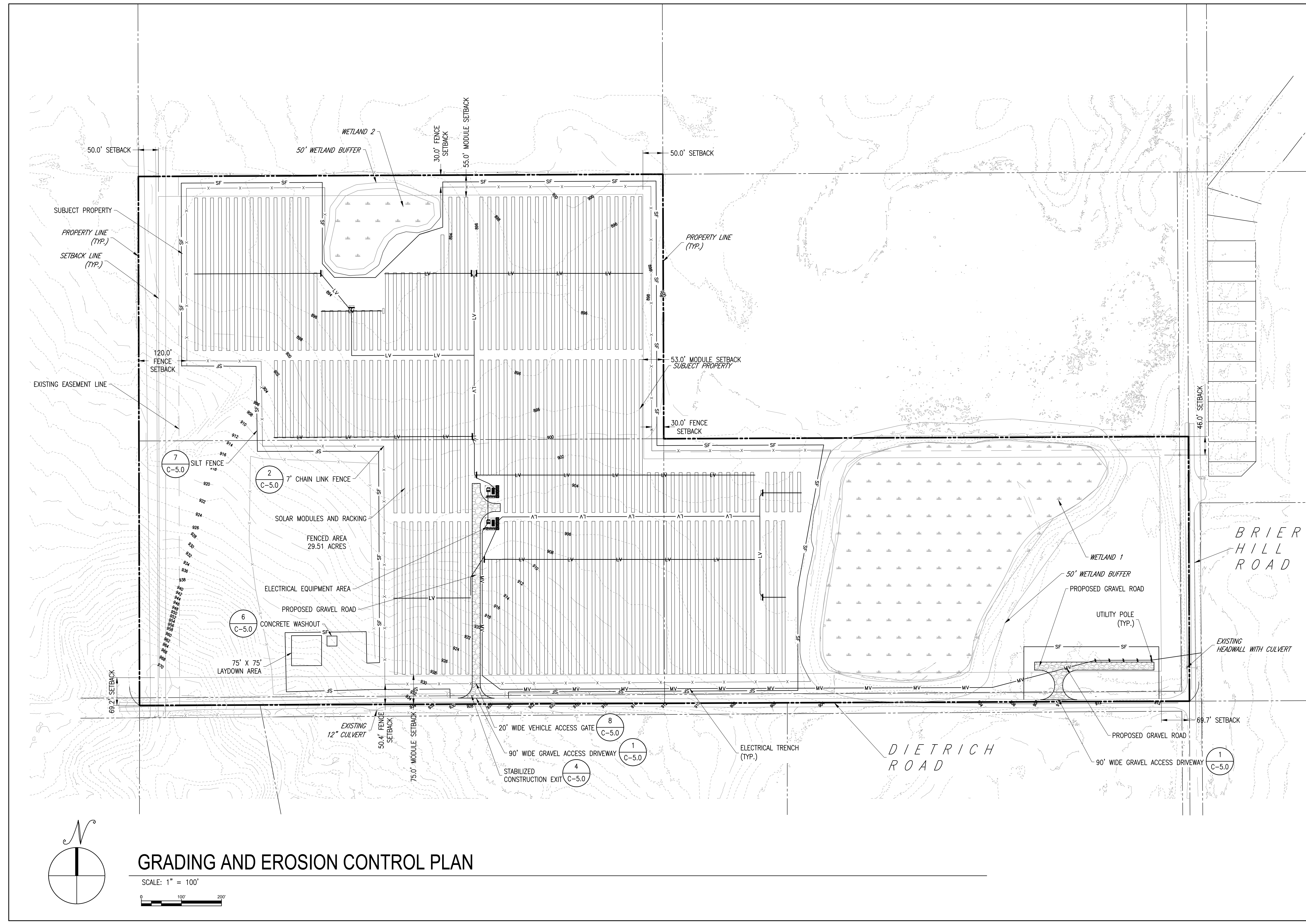
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REV	DATE	DRAWN	CHECKED	RELEASE LEVEL

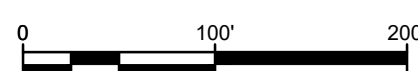
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.0
GRADING AND EROSION CONTROL PLAN



GRADING AND EROSION CONTROL PLAN

SCALE: 1" = 100'



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 PHONE: (508) 818-5249 FAX: (508) 678-8991
 WWW.NEWFLEAFENERGY.COM

SCORE OF WORK: ALT-00
 INSTALLATION OF BATTERY ENERGY STORAGE SYSTEMS
 CONCRETE PADS AND RELATED EQUIPMENT AT GRADE
 BLOCK: 0000
 LTR: 1500
 BR: 000000
 COUNTY BOARD: 503
 ZONING DISTRICT: M1-12RD
 ZONING MAP: 00A
 OCCUPANCY GROUP: FT
 CONSTRUCTION CL: TYPE III
 USE GROUP: GA

NOT FOR CONSTRUCTION

BCB
 9575 W. Higgins Road
 Rosemont, Illinois 60018
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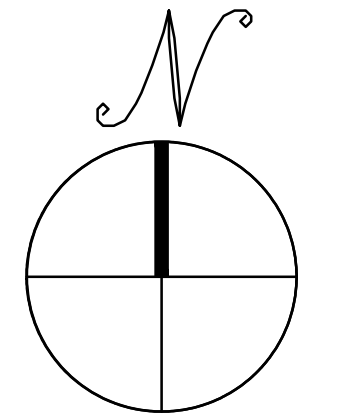
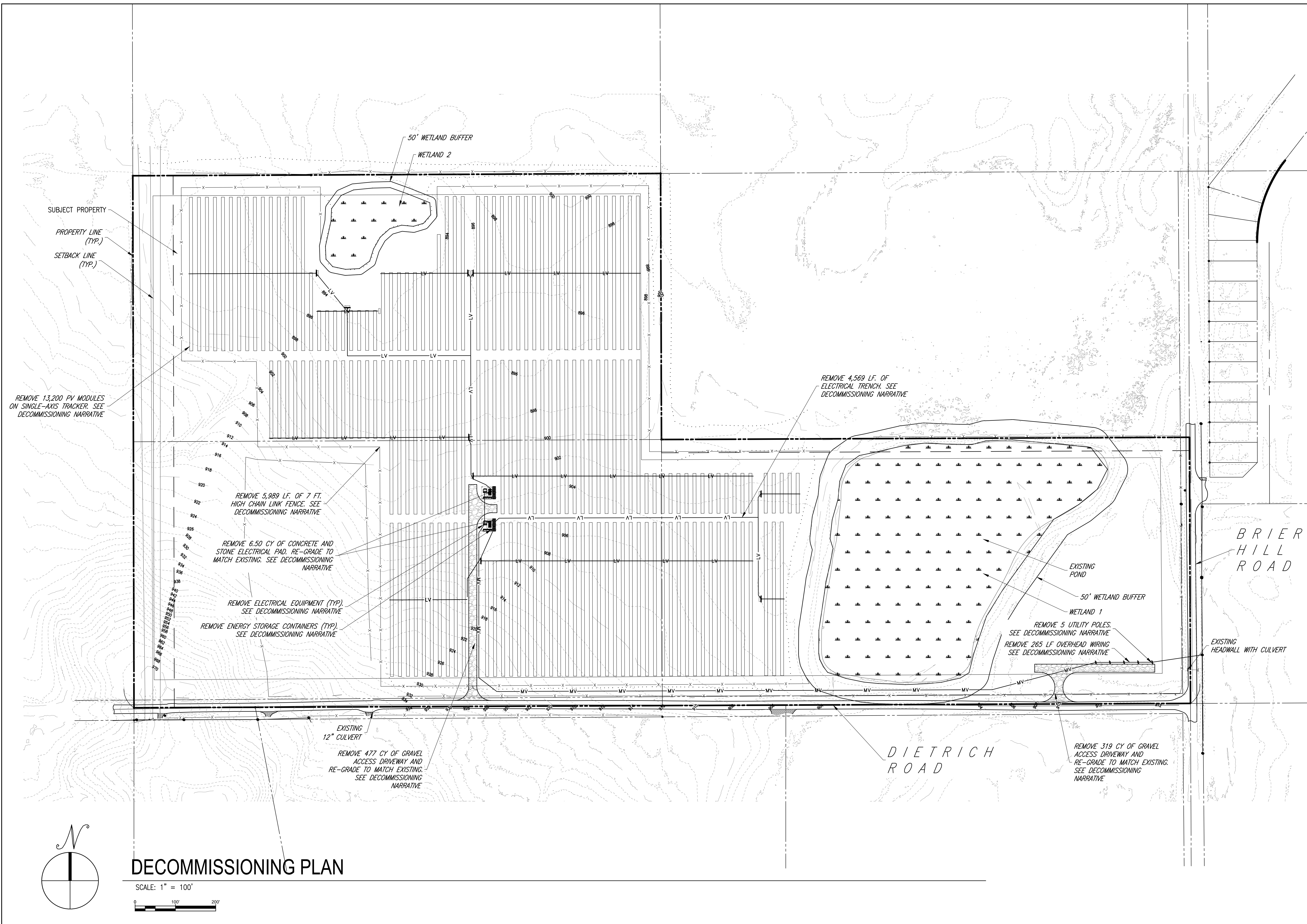
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REV	DATE	DRAWN	CHECKED	RELEASE LEVEL

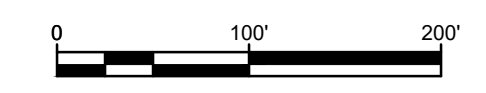
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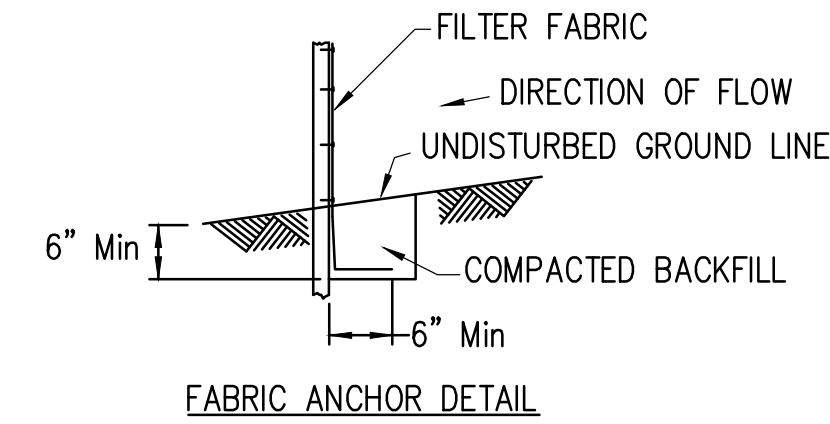
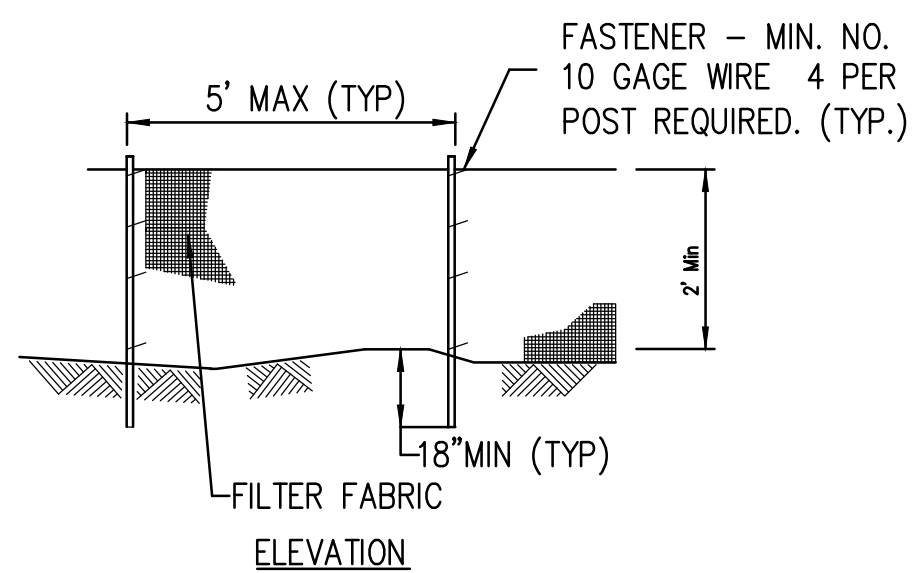
C-4.0
 C-4.0 DECOMMISSIONING PLAN



DECOMMISSIONING PLAN

SCALE: 1" = 100'

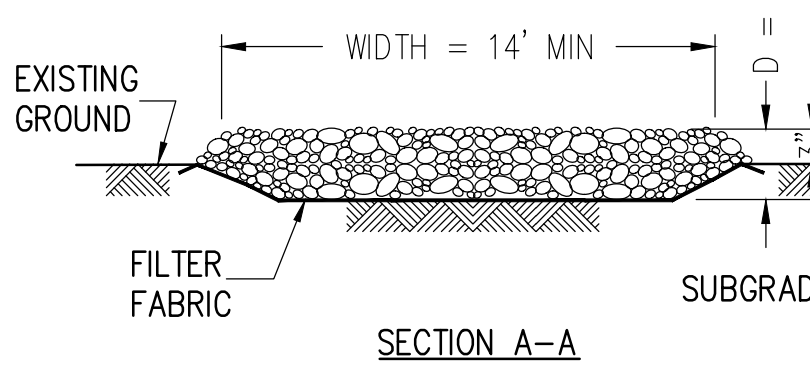
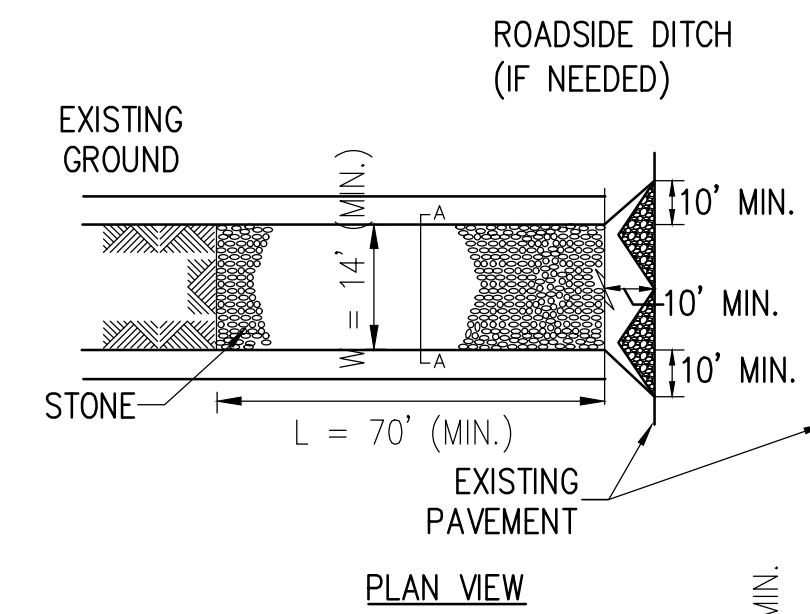




- NOTES:
1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION I 592 GEOTEXTILE TABLE 1 OR 2, CLASS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 40 FOR WOVEN.
 3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

7 SILT FENCE

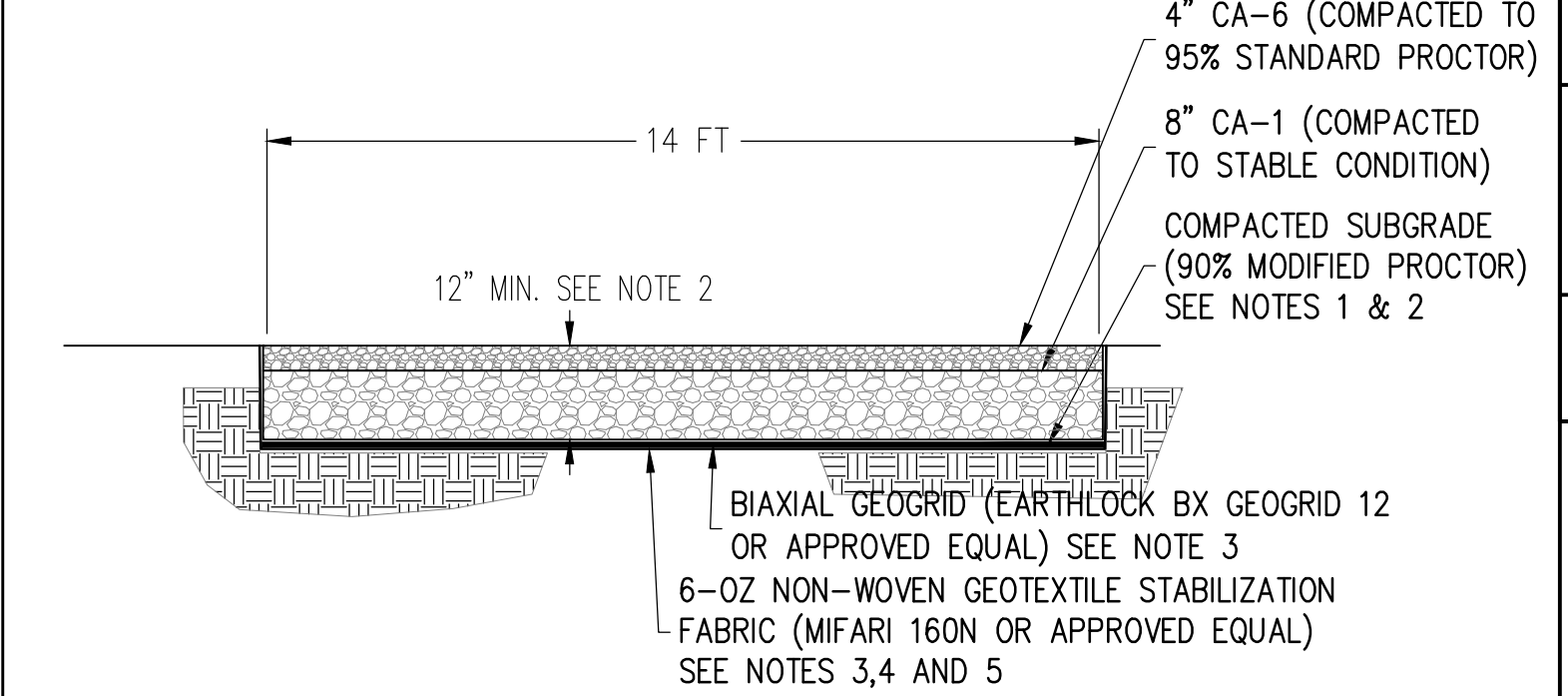
SCALE: NTS



- NOTES:
1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1 OR 2, CLASS I, II OR IV AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF ROCK.
 2. ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3, OR CA-4 AND BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 25 ROCKFILL USING PLACEMENT METHOD 1 AND CLASS III COMPACTION.
 3. SEE PLANS FOR CONSTRUCTION ROAD LOCATION, D AND W DIMENSIONS. MINIMUM WIDTH IS 14 FEET FOR ONE-WAY TRAFFIC AND 20 FEET FOR TWO-WAY TRAFFIC. TWO-WAY TRAFFIC WIDTHS SHALL BE INCREASED A MINIMUM OF 4 FEET FOR TRAILER TRAFFIC. DEPENDING ON THE TYPE OF VEHICLE OR EQUIPMENT, SPEED, LOADS, CLIMATIC AND OTHER CONDITIONS UNDER WHICH VEHICLES AND EQUIPMENT OPERATE AN INCREASE IN THE MINIMUM WIDTHS MAY BE REQUIRED.
 5. ROADWAY SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE.

4 STABILIZED CONSTRUCTION ENTRANCE

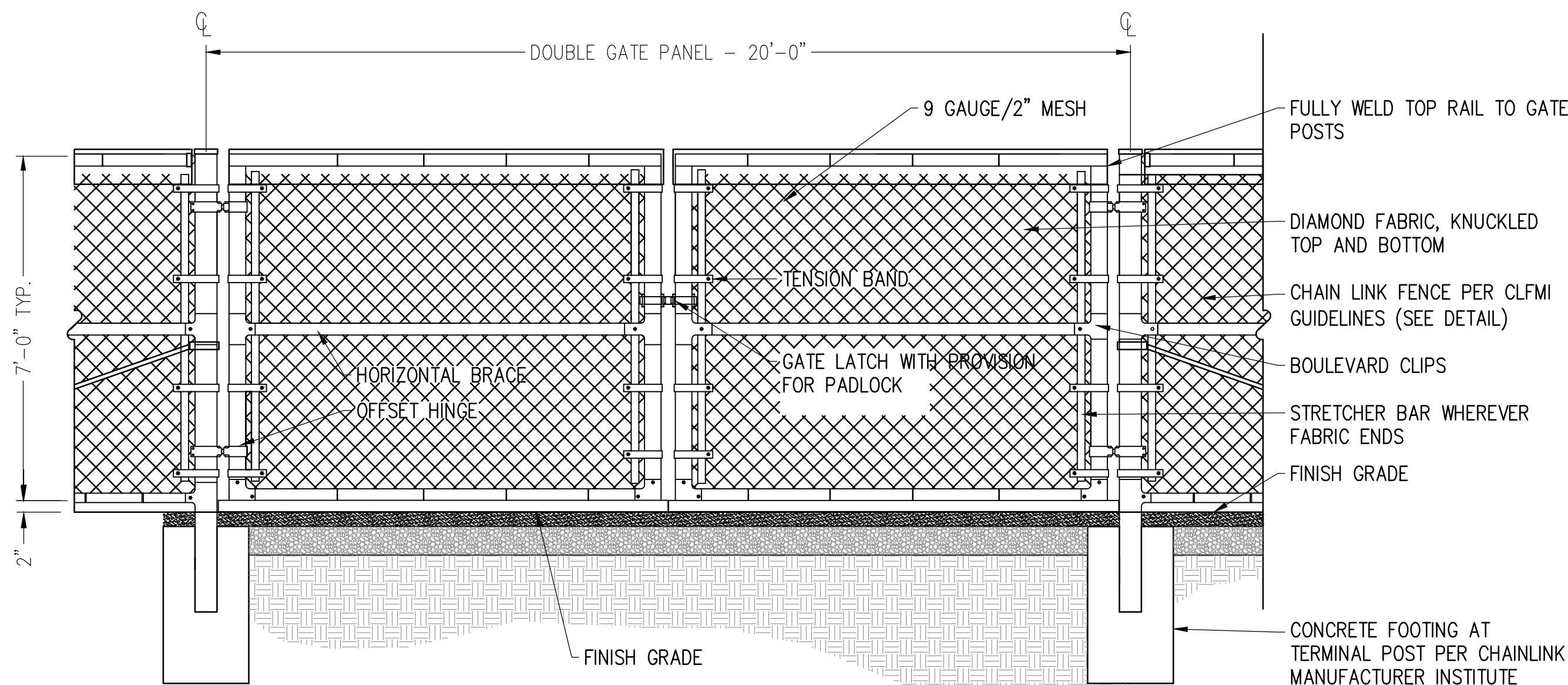
SCALE: NTS



- NOTES:
1. SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
 2. SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION CRITERIA.
 3. SUBCONTRACTOR SHALL FOLLOW MANUFACTURER INSTALLATION PROCEDURES.
 4. WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
 5. SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.

1 GRAVEL ACCESS ROAD

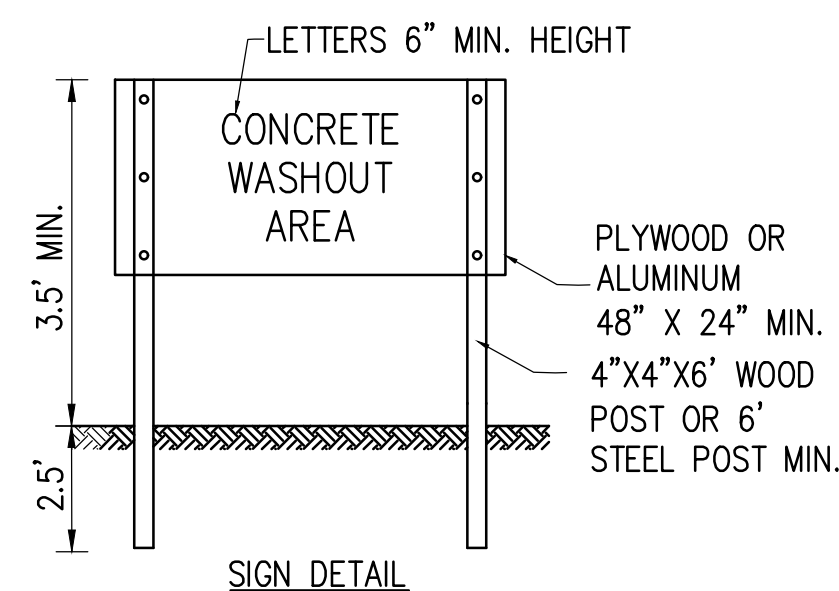
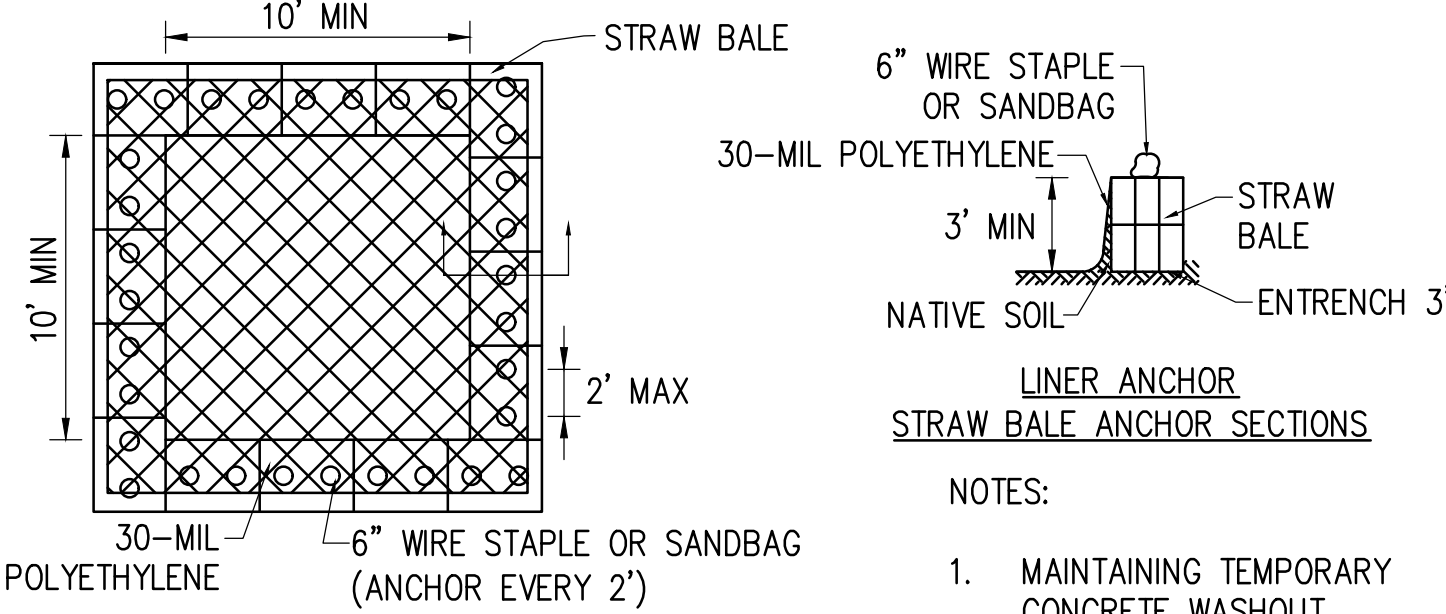
SCALE: NTS



NOTE: FABRIC SHALL BE GALVANIZED UNLESS OTHERWISE NOTED, REFER TO PLANS.

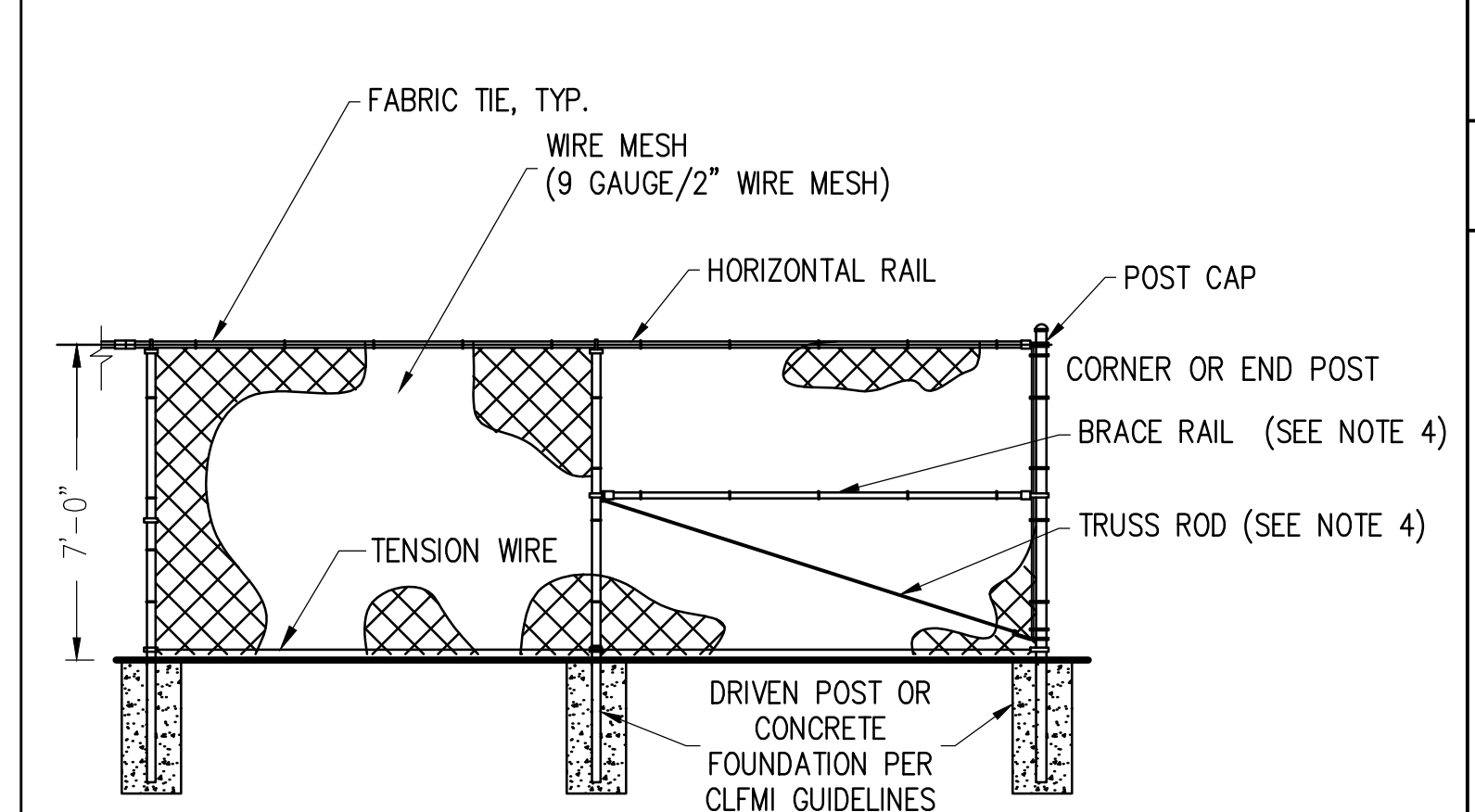
8 VEHICLE GATE

SCALE: NTS
XD_CIVIL_FENCE_VEHICLE_GATE_7 OR 8 07-25-2017



5 CONCRETE WASHOUT

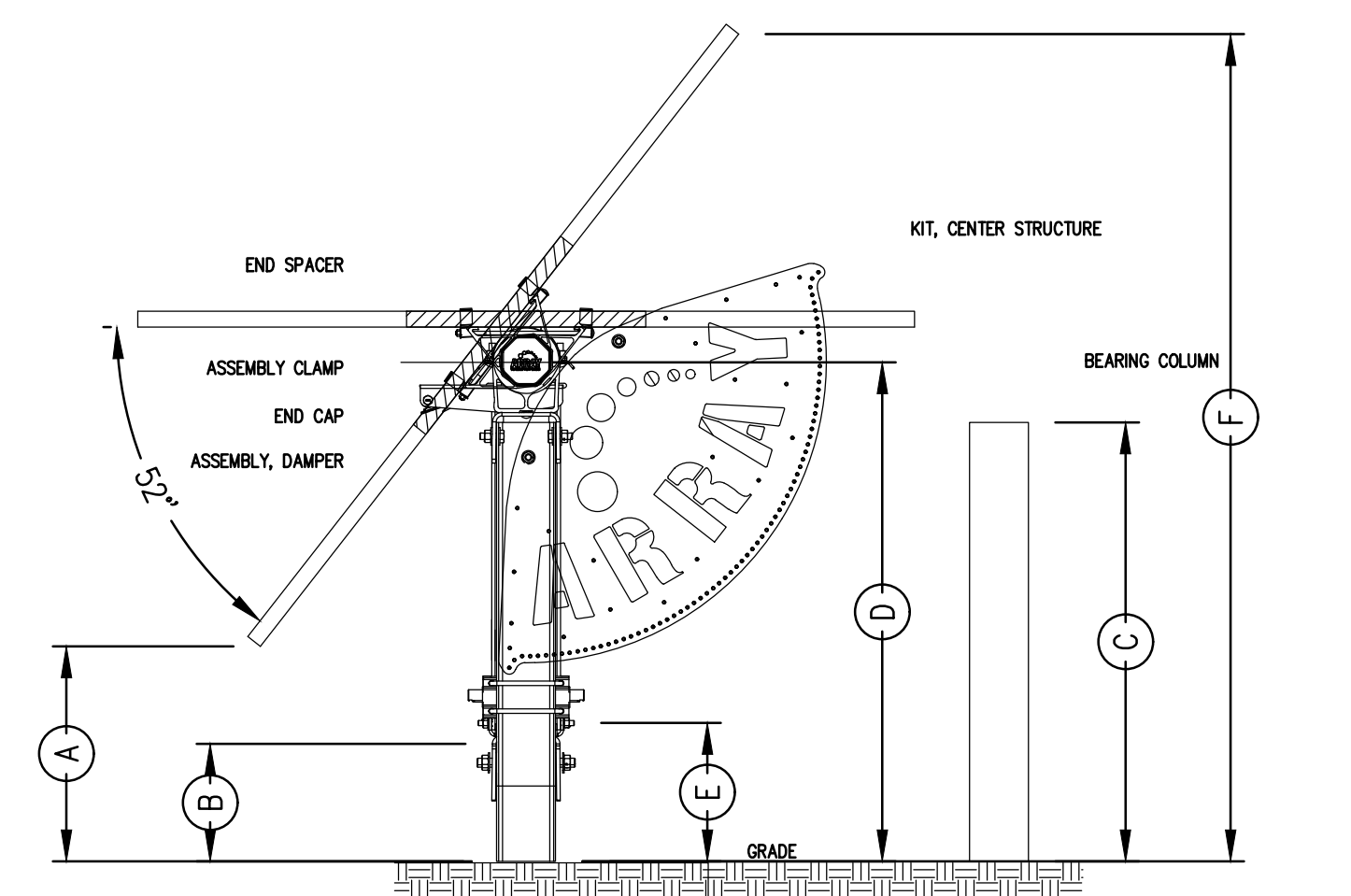
SCALE: NTS



- NOTES:
1. THE FENCE SHALL MEET OR EXCEED THE CHAIN LINK FENCE MANUFACTURER INSTITUTE (CLFMI) GUIDELINES AND RELATED FEDERAL SPECIFICATIONS FOR SECURITY CHAIN LINK FENCE MATERIALS AND INSTALLATION.
 2. ALL FENCE MATERIAL AND COMPONENTS SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
 3. THIS DETAIL NOT APPLICABLE FOR PRIVACY FENCE OR FENCE WITH SLATS.
 4. ADJUSTABLE TRUSS ROD AND BRACE RAIL AT CORNER OR END POSTS ONLY, IF REQUIRED BY CLFMI GUIDELINES.

2 CHAIN LINK FENCE

SCALE: NTS

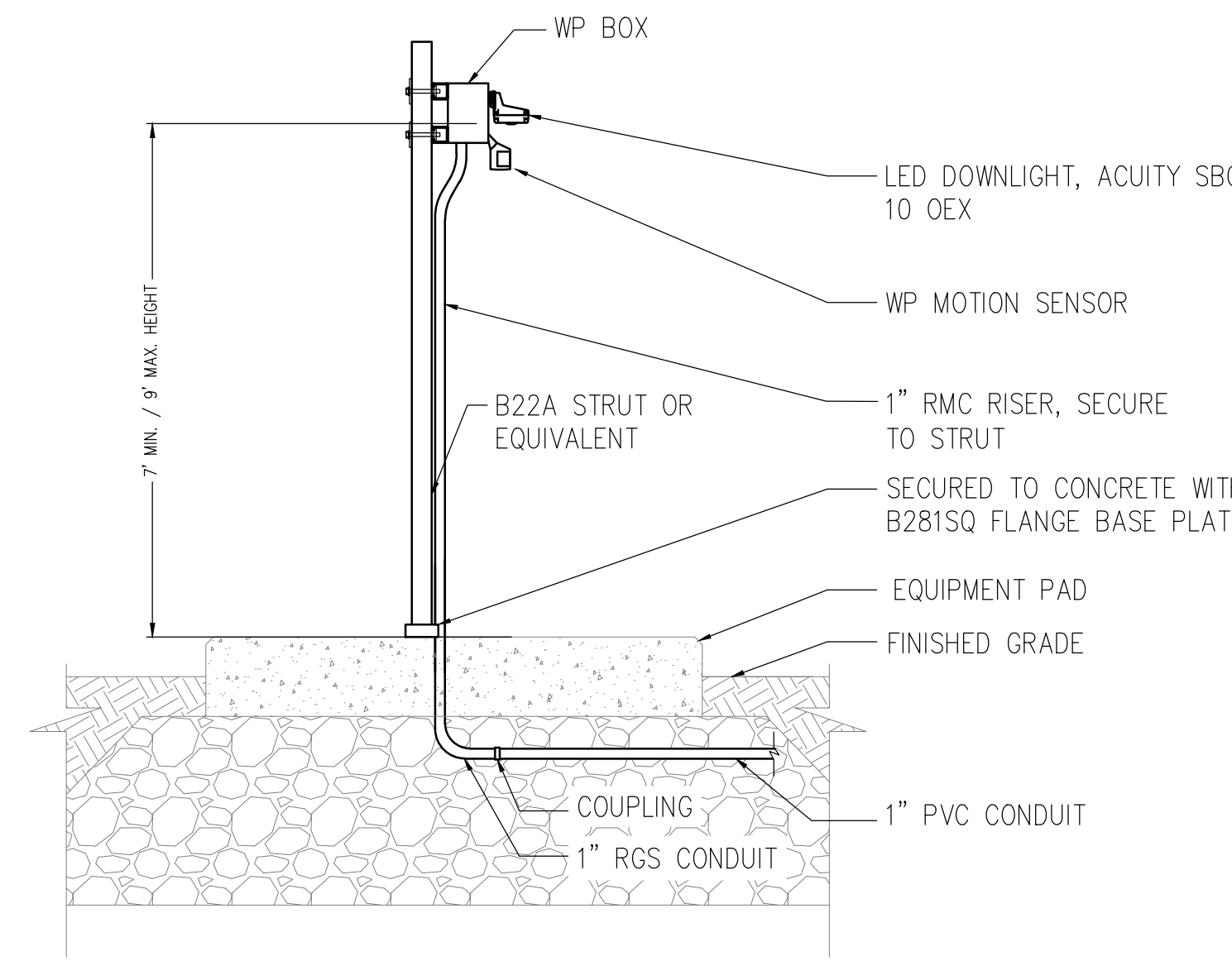


A	B	C	D	E	F
BOTTOM EDGE OF 77" MODULE AT 52" (IN)	GEARBOX COLUMN (IN)	BEARING COLUMN HEIGHT (IN)	CENTER OF ROTATION (IN)	TO BOTTOM OF DRIVELINE (IN)	TOP EDGE OF 77" MODULE AT 52" (IN)
32	22	54	60	24	94

NOTE: CLEARANCES HAVE ± INSTALL TOLERANCES.

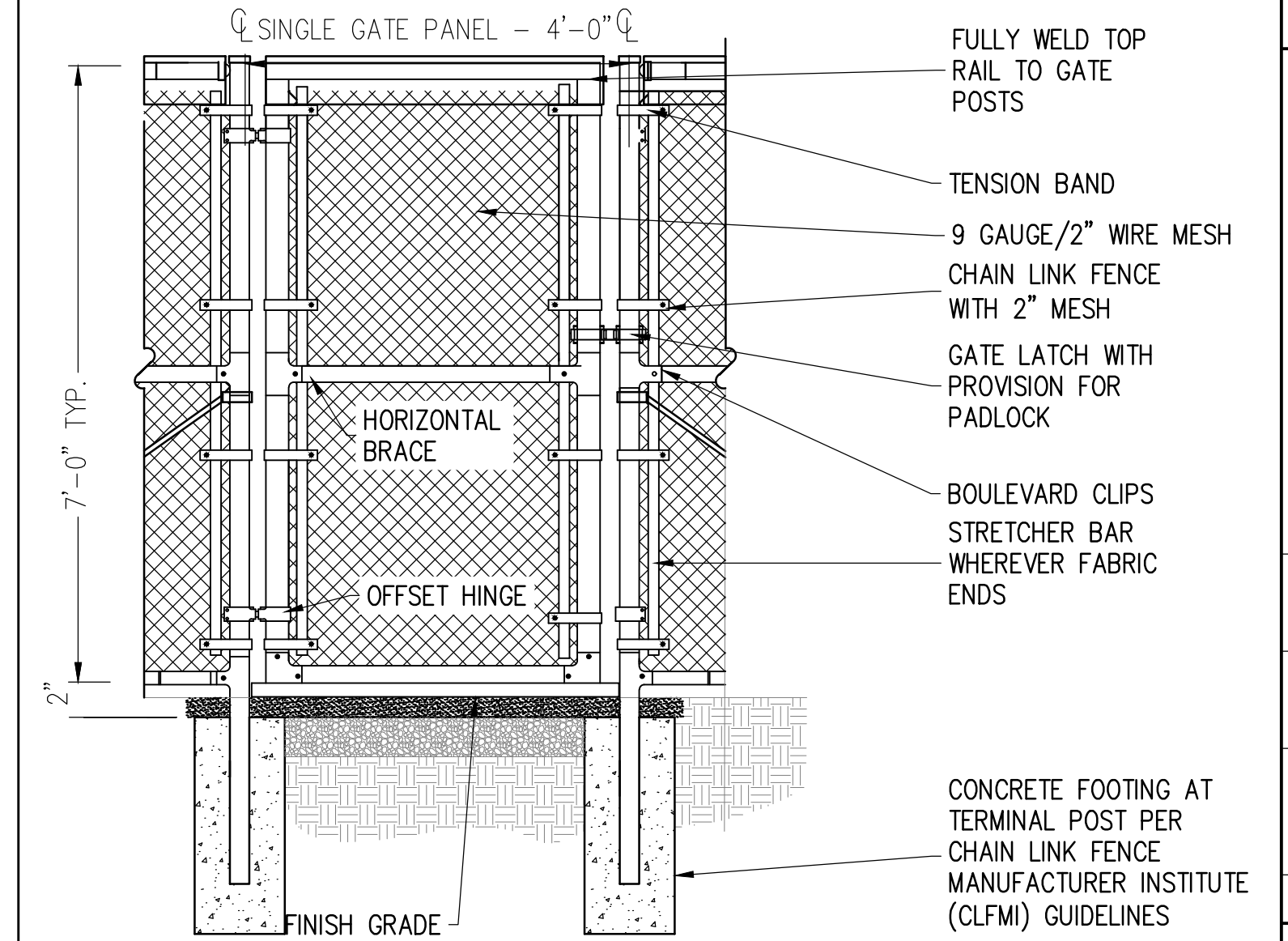
9 VERTICAL MOUNT MOTOR CLEARANCES

SCALE: N.T.S.
XD_STRUCT_ARRAY_ELEVATION 2018-02-15



6 LIGHTING MOUNTING - DOWNLIGHT

SCALE: NTS
XD_ELEC_LIGHT_MOUNTING-DOWNLIGHT 2018-06-22_JPL



3 4' MAN GATE

SCALE: NTS
XD_CIVIL_SITE_CONSTRUCTION_4' WALK THROUGH GATE 07-25-2017

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PROJECT NUMBER:
120-0531

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	03/26/24	RJQ	NB	SUP

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-5.0

CIVIL DETAILS IL