



Dane County
 Department of Planning and Development
 Zoning Division
 Room 116, City-County Building
 210 Martin Luther King Jr. Blvd.
 Madison, Wisconsin 53703
 (608) 266-4266

Application Fees	
General:	\$495
Mineral Extraction:	\$1145
Communication Tower:	\$1145 (+\$3000 RF eng review fee)
PERMIT FEES DOUBLE FOR VIOLATIONS OR WHEN WORK HAS STARTED PRIOR TO ISSUANCE OF PERMIT	

CONDITIONAL USE PERMIT APPLICATION

APPLICANT INFORMATION

Property Owner Name:	4D Farms, LLC	Agent Name:	Jake Taff
Address (Number & Street):	6756 Old 113 Rd	Address (Number & Street):	5349 Norway Grove School Road
Address (City, State, Zip):	Dane, WI 53529	Address (City, State, Zip):	Deforest, WI 53532
Email Address:		Email Address:	madsand@centurytel.net
Phone#:		Phone#:	608-846-4333

SITE INFORMATION

Township:	Vienna	Parcel Number(s):	090922185604
Section:	-	Property Address or Location:	5379 County Road V
Existing Zoning: RM-16	Proposed Zoning: RM-16	CUP Code Section(s):	

DESCRIPTION OF PROPOSED CONDITIONAL USE

Type of conditional use permit (for example: limited family business, animal boarding, mineral extraction, or any other listed conditional use): non-metallic mineral extraction	Is this application being submitted to correct a violation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Provide a short but detailed description of the proposed conditional use: Extract sand and gravel for commercial use	

GENERAL APPLICATION REQUIREMENTS

Applications will not be accepted until the applicant has met with department staff to review the application and determined that all necessary information has been provided. Only complete applications will be accepted. All information from the checklist below must be included. Note that additional application submittal requirements apply for particular uses or as may be required by the Zoning Administrator. Applicants for significant and/or potentially controversial conditional uses are strongly encouraged to meet with staff prior to submittal.

<input type="checkbox"/> Complete attached information sheet for standards	<input type="checkbox"/> Site Plan drawn to scale	<input type="checkbox"/> Detailed operational plan	<input type="checkbox"/> Written legal description of boundaries	<input type="checkbox"/> Detailed written statement of intent	<input type="checkbox"/> Application fee (non-refundable), payable to Dane County Treasurer
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I certify by my signature that all information presented herein is true and correct to the best of my knowledge. I hereby give permission for staff of the Dane County Department of Planning and Development to enter my property for the purpose of collecting information to be used as part of the review of this application. I acknowledge that submittal of false or incorrect information may be grounds for denial of this application.

Owner/Agent Signature: Dennis Kelly

Date: 9/9/20

STANDARDS FOR CONDITIONAL USE PERMITS

Applicants must provide adequate evidence demonstrating to the Town and Dane County Zoning & Land Regulation Committee that the proposed conditional use satisfies the following 8 standards for approval, along with any additional standards specific to the applicable zoning district or particular use found in sections [10.220\(1\)](#) and [10.103](#) of the code.

Please explain how the proposed land use will meet the following standards (attach additional pages, if necessary):

<p>1. The establishment maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, comfort or general welfare.</p>
<p>2. The uses, values, and enjoyment of other property in the neighborhood for purposes already permitted shall be in no foreseeable manner substantially impaired or diminished by establishment, maintenance or operation of the conditional use.</p>
<p>3. The establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.</p>
<p>4. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the conditional use.</p>
<p>5. Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.</p>
<p>6. That the conditional use shall conform to all applicable regulations of the district in which it is located.</p>
<p>7. The conditional use is consistent with the adopted town and county comprehensive plans.</p>
<p>8. If the conditional use is located in a Farmland Preservation (FP) Zoning district, the conditional use is subject to the following additional standards found in section 10.220(1). Attach additional pages, if necessary.</p> <ul style="list-style-type: none">• Explain how the use and its location in the Farmland Preservation Zoning District are consistent with the purposes of the district: • Explain how the use and its location in the Farmland Preservation Zoning district are reasonable and appropriate, considering alternative locations: • Explain how the use is reasonably designed to minimize the conversion of land from agricultural use or open space use: • Explain how the use does not substantially impair or limit the current or future agricultural use of surrounding parcels zoned for agricultural use: • Explain how construction damage to land remaining in agricultural use is minimized and repaired, to the extent feasible:

WRITTEN STATEMENT OF INTENT AND OPERATIONS PLAN

Applicants must provide a detailed written statement of intent describing the proposed conditional use along with an operational plan that explains how the conditional use will be operated. Please use the form below and provide responses, as applicable, to your proposed conditional use. Attach additional pages, if necessary.

Describe in detail the proposed conditional use. Provide the specific location of the use(s), type of equipment used, planned property improvements, including description / size of existing or proposed new buildings to be used, and any other relevant information. For existing or proposed commercial operations, provide the name of the business and describe the nature and type of business activity.
List the proposed days and hours of operation.
List the number of employees, including both full-time equivalents and maximum number of personnel to be on the premises at any time.
List any anticipated noise, odors, dust, soot, runoff or pollution associated with the conditional use, along with any proposed measures that will be taken to mitigate impacts to neighboring properties.
Describe any materials proposed to be stored outside and any activities, processing or other operations taking place outside an enclosed building.
For proposals involving construction of new facilities and/or infrastructure, describe, as applicable, any measures being taken to ensure compliance with county stormwater and erosion control standards under Chapter 11 of Chapter 14 , Dane County Code.
List and describe existing or proposed sanitary facilities, including adequate private onsite wastewater treatment systems, associated with the proposed conditional use. For uses involving domestic pets or livestock, list and describe measures taken to address manure storage or management.
List and describe any existing or proposed facilities for managing and removal of trash, solid waste and recyclable materials.
Describe anticipated daily traffic, types and weights of vehicles, and any provisions, intersection or road improvements or other measures proposed to accommodate increased traffic.
Provide a listing of any hazardous, toxic or explosive materials to be stored on site, and any spill containment, safety or pollution prevention measures.
Describe any existing or proposed outdoor lighting along with any measures that will be taken to mitigate light-pollution impacts to neighboring properties. The Zoning Administrator may require submittal of a photometric plan for outdoor lighting if deemed necessary to determine potential impacts to neighbors.
Describe any existing or proposed signage, including size, location, and materials, consistent with the county's sign ordinance found in s. 10.800 .
Briefly describe the current use(s) of the property on which the conditional use is proposed.
Briefly describe the current uses of surrounding properties in the neighborhood.

APPLICATION CHECKLIST FOR A CONDITIONAL USE PERMIT

A scaled site plan and detailed operations plan must be submitted with your Conditional Use Permit application. Please use the checklist below to ensure you are submitting all required information applicable to your request. Please attach to your application form the required maps and plans listed below, along with any additional pages.

SCALED SITE PLAN. Show sufficient detail on 11" x 17" paper. Include the following information, as applicable:

- Scale and north arrow.
- Date the site plan was created.
- Existing subject property lot lines and dimensions.
- Existing and proposed wastewater treatment systems and wells. NA
- All buildings and all outdoor use and/or storage areas, existing and proposed, including provisions for water and sewer. NA
- All dimension and required setbacks, side yards and rear yards. NA
- Location and width of all existing and proposed driveway entrances onto public and private roadways, and of all interior roads or driveways.
- Location and dimensions of any existing utilities, easements or rights-of-way.
- Parking lot layout in compliance with s. [10.102\(8\)](#). NA
- Proposed loading/unloading areas. NA
- Zoning district boundaries in the immediate area. All districts on the property and on all neighboring properties must be clearly labeled.
- All relevant natural features, including navigable and non-navigable waters, floodplain boundaries, delineated wetland areas, natural drainage patterns, archeological features, and slopes over 12% grade.
- Location and type of proposed screening, landscaping, berms or buffer areas if adjacent to a residential area.
- Any lighting, signs, refuse dumpsters, and possible future expansion areas. NA

NEIGHBORHOOD CHARACTERISTICS. Describe existing land uses on the subject and surrounding properties:

- Provide a brief written statement describing the current use(s) of the property on which the conditional use is proposed.
- Provide a brief written statement documenting the current uses of surrounding properties in the neighborhood.

OPERATIONS PLAN AND NARRATIVE. Describe in detail the following characteristics of the operation, as applicable:

- Hours of operation.
- Number of employees, including both full-time equivalents and maximum number of personnel to be on the premises at any time.
- Anticipated noise, odors, dust, soot, runoff or pollution and measures taken to mitigate impacts to neighboring properties.
- Descriptions of any materials stored outside and any activities, processing or other operations taking place outside an enclosed building.
- Compliance with county stormwater and erosion control standards under [Chapter 11](#) of [Chapter 14](#), Dane County Code.
- Sanitary facilities, including adequate private onsite wastewater treatment systems and any manure storage or management plans approved by the Madison and Dane County Public Health Agency and/or the Dane County Land and Water Resources Department. NA
- Facilities for managing and removal of trash, solid waste and recyclable materials. NA
- Anticipated daily traffic, types and weights of vehicles, and any provisions, intersection or road improvements or other measures proposed to accommodate increased traffic.
- A listing of hazardous, toxic or explosive materials stored on site, and any spill containment, safety or pollution prevention measures taken.
- Outdoor lighting and measures taken to mitigate light-pollution impacts to neighboring properties. NA
- Signage, consistent with section [10.800](#). NA

ADDITIONAL MATERIALS. Additional information is required for certain conditional uses listed in s. [10.103](#):

- Agricultural entertainment, special events, or outdoor assembly activities anticipating over 200 attendees must file an [event plan](#).
- [Domestic pet](#) or [large animal boarding](#) must provide additional information in site and operations plans.
- Communication towers must submit additional information as required in s. [10.103\(9\)](#).
- Farm residences proposed in the FP-35 district must submit additional information as required in s. [10.103\(11\)](#).
- Mineral extraction proposals must submit additional information as required in s. [10.103\(15\)](#).

1. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, comfort or general welfare.
 - The existing zoning of the parcel is RM-16 (Rural Mixed Use). We are requesting a conditional use permit to accommodate a non-metallic mining operation. Public health, safety, and welfare will be met by the operation meeting and exceeding the current standards set forth by the Town of Vienna, Dane County, WisDNR, OSHA, and Mine Safety and Health Administration. Additional steps in the design and operation will be taken to prevent environmental and social impacts. Normal operating hours will be limited to 6:00 am to 6:00 pm.
2. The uses, values and enjoyment of other property in the neighborhood for purposes already permitted shall be in no foreseeable manner substantially impaired or diminished by establishment, maintenance or operation of the conditional use.
 - The non-metallic mining operation will conform to and exceed regulations intended to minimize the effect of the operation on groundwater, air quality, and other environmental impacts to the surrounding area. Dust control within the extraction area will be done by water truck. Additionally, there will be no onsite crushing or drying. A portable screening plant may be used at times. Material will be removed with excavators and trucked to the nearby Madison Sand & Gravel operation. After operations have ended, reclamation of the area will restore the land to a large lake with open grass fields.
3. That the establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.
 - The property exists outside of Deforest's ETZ, so only the Town and County are the approving jurisdictions. There is a county highway to the north, active quarry to the west and south, and farmland to the east. The existing homes to the northeast of the parcel will be protected by some berming that currently exists. Berms will also be erected to the north along County Highway V. These will protect the surrounding areas from noise, dust, and viewsheds. Crushing, drying and sorting work will be done at the main areas of Madison Sand and Gravel normal yard operations. Normal operating hours will be between 6:00 am and 6:00 pm to further reduce the impact on neighboring properties.
4. That adequate utilities, access roads, drainage and other necessary site improvements have been or are being made.
 - The requested operation of a mining operation will not require any utilities. The access to the mining property will be from existing lands owned by Madison Sand and Gravel. All stormwater on site will be kept within the pit. Care will be taken to not impede the offsite water that flows through the site.
5. Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.

- This is not applicable to this site as access will be neighboring lands owned by Madison Sand and Gravel.
6. That the conditional use shall conform to all applicable regulations of the district in which it is located.
- We are requesting a conditional use permit for the operation of a non-metallic mining operation on a parcel that is currently zoned RM-16.
7. That conditional use is consistent with the adopted town and county comprehensive plans.
- This request for the non-metallic mining use is consistent with the comprehensive plans for this area.

Neighborhood Characteristics

Provide a brief written statement describing the current use(s) of the property on which the conditional use is proposed.

- The current use of the property is for agricultural purposes. Less than half of the land is used for farming as the remaining is wetland and has too steep of topography.

Provide a brief written statement documenting the current uses of surrounding properties in the neighborhood.

- To the west and to the south, the area is being currently being mined by Madison Sand and gravel. To the north is County Highway V and agricultural land. To the east is agricultural land.



RECLAMATION PLAN

for

KELLEY PIT

**5379 County Highway V
Town of Vienna
Dane County, Wisconsin**

September 11, 2020

Prepared by:
Snyder & Associates
5010 Voges Road
Madison, WI 53718
Phone: (608) 838-0444

Prepared for:
Madison Sand & Gravel
5349 Norway Grove School Road
DeForest, WI 53532
Phone (608) 846-4333

NONMETALLIC MINING SITE RECLAMATION PLAN TABLE OF CONTENTS
Kelley Pit, Madison Sand & Gravel

Contents

1. BACKGROUND AND GENERAL INFORMATION	3
1.1 Description of Project Activity	3
1.2 Project Location	4
1.2.1 Address	4
1.2.2 Size	4
1.2.3 Legal Description	4
1.2.4 Property Boundaries	4
1.2.5 Areal Extent	4
1.3 Existing Land Use	4
1.4 Geological Composition	4
1.4.1 Distribution and Type of Topsoil	5
1.4.2 Depth to Mineral Deposit	5
1.4.3 Hydrogeology	5
1.4.4 Location of Surface Waters	5
1.4.5 Drainage Patterns	5
1.5 Operations	5
1.5.1 Dates and Times of Operations	6
1.5.2 Structures	6
1.5.3 Hauling Routes	6
1.6 Environmental Protection	6
1.6.1 Dust Control	7
1.6.2 Storm Water Control	7
2. STATE AND LOCAL REQUIREMENTS	7
2.1 Wisconsin DNR Requirements (NR 135)	7
2.1.1 Surface Water and Wetland Protection	7
2.1.2 Groundwater Protection	7
2.1.3 Topsoil Management	7
2.1.4 Final Grading and Slopes	7
2.1.5 Topsoil Redistribution for Reclamation	8
2.1.6 Revegetation and Site Stabilization	8
2.1.7 Assessing Completion of Successful Reclamation	8
2.1.8 Maintenance	8
2.2 Dane County Nonmetallic Mining Ordinance	8
3. RECLAMATION PLAN	8
3.1 Post Mining Land Use	8
3.2 Reclamation Measures	8
3.2.1 Final Grades and Slopes	8
3.2.2 Topsoil Management	9
3.2.3 Structures	9
3.2.4 Revegetation Plan	10
3.2.5 Revegetation Standards	10
Post mining Land Use and Success criteria Table	10
3.2.6 Erosion Control	11

3.2.7	Site Maintenance.....	11
3.3	Criteria for Successful Reclamation.....	11
3.4	Final Site Actions.....	12
3.5	Safety and Land Use.....	12
3.6	Sand and Gravel Products Usages.....	12
4.	Certification and Assurance	12
4.1	Certification of Reclamation Plan.....	12
4.2	Financial Assurance	12

APPENDICES:

Appendix A – General Maps and Additional Information

Existing Topography/ manmade features	A1
Areal Extent	A2
NRCS Web Soil Survey-Soil Map & Description	A3
Geological Composition-gravel	A4
Geological composition-sand	A5
Depth to Water Table	A6
Wisconsin Wetland Indicators	A7

Appendix B – Site Specific Maps and Information

Wetland Delineation Report	B1
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Appendix C – Project Plans

Project Plans	C1
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NONMETALLIC MINING RECLAMATION

For Madison Sand & Gravel Kelley Pit

Town of Vienna
Dane County, Wisconsin
September 11, 2020

1. BACKGROUND AND GENERAL INFORMATION

1.1 Description of Project Activity

The purpose of this report is to provide a framework for the nonmetallic mining conditions and reclamation at the new quarry site.

The proposed sand and gravel quarry is located on a 32.6 acre parcel approximately 1 mile north-west of Deforest, WI. There is currently an agricultural field. The quarry will be extracting sand and gravel from the western section of the property. The location of the property can be seen in figure 1.1-1. An existing Madison Sand & Gravel quarry is located to the west and to the south of this parcel.

Mining will occur in a single phase. Before mining begins, the topsoil will be removed and stored onsite for reclamation. Additional erosion and stormwater control measures will be constructed. The mining will be performed by excavators and moved to the adjacent existing Madison Sand & Gravel pit for processing. There will be no explosives used on site. Mining is expected to occur for 15-20 years. After mining operations have ceased,

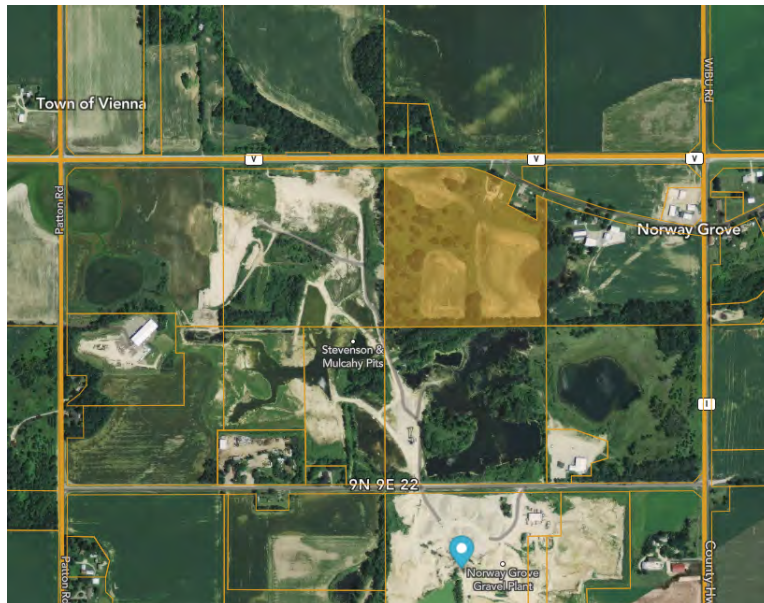


Figure 1.1-1

reclamation will return the land to a large lake and grass area. This lake is an extension of the reclamation plan for the adjacent Madison Sand and Gravel operation.

1.2 Project Location

The proposed mine will contain a quarry located on a 32.6 acre property in Dane County, Wisconsin. The operation will be located approximately 1 mile northwest of the Village of Deforest, WI. The mine is to the west of Interstate 39-90-94 and to the South of County Highway V. Access to the property is will be through the existing quarry lands owned by Madison Sand and Gravel just north of 5349 Norway Grove School Road.

1.2.1 Address

The mining operation will be contained to 5379 County Highway V.

This is parcel number 064/0909-221-8560-4.

1.2.2 Size

The parcel being used 32.6 acres. The mineral extraction area is approximately 30 acres. Areas that are designated as wetland will not be mined. See the proposed plans for more detail.

1.2.3 Legal Description

The legal description below assumes that the parcel

Part of the Northwest 1/4 of the Northeast 1/4 of Section 22, Township 9 North, Range 9 East, in the Town of Vienna, Dane County, Wisconsin, EXCEPT that part conveyed in Warranty Deed recorded in Vol. 762 of Deeds, page 144, as #1079027; ALSO EXCEPT Certified Survey Map 4794, recorded in Vol. 21 of Certified Survey Maps, page 152, as #1905094 and corrected in Certified Survey Map 5197, recorded in Vol. 23 of Certified Survey Maps. page 275, as #2005108; ALSO EXCEPT Lot 2, Certified Survey Map 5197, recorded in Vol. 23 of Certified Survey Maps, page 275, as #2005108, in the Town of Vienna, Dane County, Wisconsin; ALSO EXCEPT Lot 1, Certified Survey Map No. _____, recorded in Vol. _____ Certified Survey Maps, page(s) _____, as Doc. No. _____, in the Town of Vienna, Dane County, Wisconsin.

1.2.4 Property Boundaries

See the attached proposed plans.

1.2.5 Areal Extent

See Figure 1.1-1

1.3 Existing Land Use

The parcel is a 32.6 acre agricultural field with two areas of wetland on the property. See the plans for more information.

1.4 Geological Composition

The existing site is partially farmed with areas of trees and shrubs. The site is higher in elevation on the western property line and sloped to a low spot on the east property line.

The existing property has sand and gravel deposits throughout the property.

1.4.1 Distribution and Type of Topsoil

A variety of soils occur in the area of the proposed mining site. A map delineating the soil types has been included in the appendix Map A3. The primary soils encountered on the site are of silt loams nature and include 3.9% Dresden loam (DrD2), 35.5% Dresden loam (DrE2), 22.8% Dresden loam (DsC2), 7.2% Elburn silt loam (EgA), 8.9% Gravel pit (GP), 8.6% Kegonsa silt loam (KeB), 5.8% Marshan silt loam (Mc), and 7.3% Piano silt loam (PoA).

1.4.2 Depth to Mineral Deposit

The mineral deposits are located near the surface. Test pits were dug onsite and sand and gravel deposits were found to be prevalent. The mineral deposits were very similar to the existing deposits on the neighboring Madison Sand and Gravel property.

1.4.3 Hydrogeology

The Web Soil Survey reports that the groundwater would be in excess of 6.5' feet. This is what is expected as the groundwater will be the same as the neighboring property.

1.4.4 Location of Surface Waters

Surface water is present in the nearby operating quarry. A dry waterway meanders through the property and will be addressed as the mining continues in the area. The two separate wetland areas hold water from time to time.

1.4.5 Drainage Patterns

Drainage on the site flows to on o the two wetlands that don't drain or to the main drainage channel that traverses the site from the northeast to the south of the property.

The property is part of the Yahara River and Lake Mendota watershed which is part of the Lower Rock watershed.

1.5 Operations

Operations on site will be excavating and hauling material. An excavator and a loader will be on site performing continuous operations.

There will be no on site blasting, drilling, crushing, washing, fuel storage, asphalt batching, or concrete mixing.

1.5.1 Dates and Times of Operations

Normal operating hours will be limited to 6:00 am to 6:00 pm Monday through Saturday. The project is planned to span 15-20 years depending on the demand for product.

1.5.2 Structures

There are no structures on this piece of property.

1.5.3 Hauling Routes

There will be no hauling routes, as the material will be trucked to the existing operation areas and will not utilize any roads besides what is already permissible (crossing Norway Grove School Road) per current operations.

1.6 Environmental Protection

1.6.1 Dust Control

Water trucks will be on site for dust control.

1.6.2 Storm Water Control

Storm water and other runoff will be contained internally. Mining activities will start in the southwest portion of the site and continue to the northeast. The runoff will be directed to the existing pond that is currently within the Madison Sand and Gravel operations.

2. STATE AND LOCAL REQUIREMENTS

Section 2.2 below lists the state nonmetallic mining reclamation requirements; Section 2.3 below lists the local requirements and Section 2.4 is a listing of persons and/or entities receiving this document.

2.1 Wisconsin DNR Requirements (NR 135)

2.1.1 Surface Water and Wetland Protection

Nonmetallic mining reclamation shall be conducted and completed in a manner that assures compliance with water quality standards for surface waters and wetlands. Necessary measures for diversion and drainage of runoff from the site to prevent pollution of waters of the state shall be installed in accordance with the reclamation plan. Diverted or channelized runoff resulting from reclamation may not adversely affect neighboring properties.

2.1.2 Groundwater Protection

Nonmetallic mining site shall be reclaimed in a manner that does not cause a permanent lowering of the water table that results in adverse effects on surface waters, or a significant reduction in the quantity of groundwater reasonably available for future users of groundwater infiltration.

2.1.3 Topsoil Management

Removal of on-site topsoil material shall be performed prior any mining activity. Once removed, topsoil or topsoil substitute material shall either be used in contemporaneous reclamation or stored in an environmentally acceptable manner. Stockpiled topsoil will be used to construct the berms as shown on the plan. The location of stockpiled topsoil or topsoil substitute material shall be chosen to protect the material from erosion or further disturbance or contamination. Runoff water shall be diverted around all locations in which topsoil or topsoil substitute material is stockpiled.

2.1.4 Final Grading and Slopes

Final grades and slopes shall provide for stable and safe conditions in the post mining land use. Final reclaimed slopes covered by topsoil or topsoil substitute material may not be steeper than a 3:1.

2.1.5 Topsoil Redistribution for Reclamation

Topsoil or topsoil substitute material shall be redistributed in accordance with the approved reclamation plan in a manner which minimizes compaction and prevents erosion. Topsoil or topsoil substitute material shall be uniformly redistributed except where uniform redistribution is undesirable or impractical. Topsoil material redistribution may not be performed during or immediately after a precipitation event until the soils have sufficiently dried. A minimum of 6" of topsoil will be spread during reclamation activities.

2.1.6 Revegetation and Site Stabilization

All surfaces affected by nonmetallic mining shall be reclaimed and stabilized by revegetation or other means. Revegetation and site stabilization shall be performed as soon as practicable after mining activity has permanently ceased in any part of the mine site.

2.1.7 Assessing Completion of Successful Reclamation

The criteria for assessing when reclamation is complete and, therefore, when the financial assurance may be released shall be specified in the reclamation plan and shall be based on site inspection and report.

2.1.8 Maintenance

During the period of the site reclamation, after the operator has stated that reclamation is complete but prior to release of financial assurance, the operator shall perform any maintenance necessary to prevent erosion, sedimentation or environmental pollution.

2.2 Dane County Nonmetallic Mining Ordinance

See Chapter 74 of the Dane County Ordinance

3. RECLAMATION PLAN

3.1 Post Mining Land Use

Madison Sand & Gravel shall return the site to a lake with open grasslands after mining operations have ended. The proposed reclamation plan provides details and final land uses for the entire mining site. Generally, slopes shall be graded to 3:1 horizontal to vertical ratio or flatter. Rock faces may remain as exposed rock where practical.

3.2 Reclamation Measures

3.2.1 Final Grades and Slopes

Madison Sand & Gravel shall re-grade steep slopes and maintain 3:1 slopes or flatter where practical, to promote natural lines and blending contour lines to the undisturbed site topography. Mine operator shall use overburden screens and other clean material as backfill against vertical slopes.

All grading will be completed and resulting surfaces scarified prior to topsoil redistribution, Grading will be completed in a manner of preventing ponding of water on the reclaimed surfaces. The topsoil and subsoil will be placed and finished to the required lines, grades and slopes as shown in the reclamation plan.

3.2.2 Topsoil Management

Erosion control measures shall be installed prior any land disturbance activities. After completing erosion and sediment control measures, but prior to commencing mining activities, the top soil and surficial plant growth material shall be removed.

Topsoil removal shall be accomplished by scrapers or bulldozers and haul trucks. When feasible, soil will be removed in a manner to minimize the surface area exposed to erosion at any given time.

This topsoil stockpile shall be protected in a timely fashion from erosion through revegetation using a cover crop or through use of mulch or other protective measures. Utilizing the specified seed mix will minimize completion with undesirable and aggressive weedy species.

Topsoil redistribution and site preparation shall be performed to achieve the final topography and drainage patterns as practicable once mining has ceased. All grading will be completed and the resulting surfaces scarified prior topsoil redistribution. This will promote good adherence and bonding between the subsoil and the topsoil and improve infiltration and drainage. Grading will be accomplished so to prevent ponding of water on the reclaimed surface. Topsoil shall be placed back to a depth of minimum 4 inches.

When compaction of soil is found to be too dense (access roads) to allow for suitable bond, the mining operator shall employ measures to rectify this condition such as disking, chisel plowing, ripping and or scarification. These measures will promote good bonding between the topsoil and underlying materials and will ensure suitable substrate for plant growth and the development of plant root system.

All topsoil shall be redistributed into a prepared site. Topsoil redistribution will be performed under dry conditions using appropriate equipment as to minimize compaction. Any clods or lumps present after the topsoil redistribution shall be broken down by the use of harrows, discs or other appropriate equipment in order to provide uniform textured soil.

3.2.3 Structures

Any drainage and sediment control structures within the mining area shall be removed once the vegetative cover is sufficiently established to provide equivalent protection.

3.2.4 Revegetation Plan

The revegetation plan includes all activities in support of selecting, obtaining, handling and applying seed or otherwise installing plant materials to fulfill the reclamation plan. Seed and plant materials will be obtained from a licensed nursery. Seed shall be free of contamination by weedy species.

Seed selection shall be a cover crop based on the reclamation land use.

Reclaimed areas shall be seeded only after soils have been properly prepared as specified above. Seeding shall be done at any time during the growing season when soil conditions are suitable except between July 1 and August 15, unless permitted by the county representative. Seeding activities will not be carried out immediately following rain, when the ground is too dry or during windy periods. Care will be taken to follow the instructions that are provided by the supplier.

General seeding methods include: Broadcast Seeding Using Agricultural Equipment applicable for agricultural land use and wildlife/passive recreation. Seeding activities will be carried out using specified equipment and in a manner to avoid soil compaction. The area seeded will not exceed the area that can be mulched on the same day. Seed will be uniformly sown by means of equipment adapted to the purpose. Then the site will be lightly raked or dragged to cover the seed with approximately one-fourth inch of soil. After seeding is complete, the areas will be lightly rolled or compacted by means of suitable equipment to improve seed to soil contact and germination.

Following seeding, mulch will be applied uniformly at a rate of between 1 and 1.5 tons per acre. Mulch will be wheat straw, marsh hay or equivalent weed-free mulch. Mulching operations will begin at the top of the slope and proceed downward. The mulch cover will be applied so as to be loose enough to allow some sunlight to penetrate yet thick enough to provide shade and protection from desiccation and raindrop impact and erosion. After spreading on reseeded surfaces mulch will be crimped into the soil by passing over the reclaimed surface with a dull, weighted disk or similar implement. On steep slopes straw or hay mulch will be securely pegged or stapled in place. In lieu of such anchorage, the mulch may be secured by means of heavy biodegradable twine fastened with pegs or staples to form a grid. Also, at the discretion of the project manager erosion blanket, jute netting or a tactifier may be used in addition to or in lieu of the crimping process.

3.2.5 Revegetation Standards

The purpose of establishing clear revegetation surface criteria is necessary to

provide a reference point to evaluate the success of the reclamation operation in an objective manner. Suggested revegetation standards are listed below:

Post mining Land Use and Success criteria Table

Post Mining Land Use	Seed Mix	Stage Phase	Success Criteria	Years to Show
Agricultural	Crop cover	Final Reclamation	70% cover	1

Percent cover shall be determined by estimating the percentage of an area covered by vegetation and a predictor of site stability. A typical standard for percent cover is 70% cover (primarily leaf and stem area) averaged over the site at 90 percent statistical confidence level. Count may be physical and photos shall be provided. The measurement of cover should be timed to correspond with the period of peak vegetative growth, generally in early-mid August.

Upon completion of reclamation activities, whether this includes a portion of the site or the entire mining site, a representative from the Dane County Land & Water Resources Department or other relevant regulatory authority shall inspect the site in order to verify success of reclamation.

3.2.6 Erosion Control

The main purpose of a general erosion control plan is to minimize erosion and limit the potential for sediment run-off into surface waters. Erosion control measures will be established prior to any site development activities including soil removal and stockpiling. Erosion control measures will be also established prior to initiating reclamation such as contemporaneous reclamation, backfilling or grading. Surface water runoff within mining areas shall be contained within the boundaries of the disturbed area and allowed to infiltrate. A perimeter berm will be constructed to prevent surface water discharge. Protection measures will be installed and maintained to support reclamation activities.

3.2.7 Site Maintenance

Mining operator shall inspect the sediment and erosion control systems on a regular basis and immediately after severe storms. Periodic follow-up inspections of all reclaimed or otherwise stabilized surfaces shall be performed to ensure they are in a condition stable enough to control erosion and sedimentation. When damage caused by traffic, wind, water or other cause is detected the mining operator will promptly perform all necessary maintenance and repair work to the erosion control system. Likewise, other work necessary to ensure long term success of the vegetation including follow-up fertilization, necessary soil amendments or any weed or pest control will be accomplished.

As part of maintenance of the reclaimed site, Madison Sand & Gravel will perform any necessary weed control or pest control and maintenance both to facilitate the establishment and survival of vegetation. Exotic species that occur on the site or are accidentally added though contaminants in the seed mixes or through the use of hay or other mulch products that are not weed free will be promptly controlled through fire, mechanical means or with herbicides. This is especially true when the species

appears on the list of state noxious weeds. This will continue until the concerns of the Dane County Land & Water Resources Department are satisfied.

3.3 Criteria for Successful Reclamation

Madison Sand & Gravel shall demonstrate compliance with the revegetation success standards (performance standards) for each post-mining land use contained in the reclamation plan. The techniques employed are as follows: percent cover will be determined as total cover (expressed as a percentage) as measured by coverage of the canopy (vertical projection of plant parts) and will be recorded by species. Cover will be measured over the entire re-vegetated site at no less than 20 randomly placed 10 square feet quadrates for each 10 acre area. Success criteria will vary with the post-mining land use. In addition, both presence (a species list) and frequency (number of quadrates the species occurs in) will be included.

3.4 Final Site Actions

The final removal of mining-related structures, drainage structures and sediment control structures will be accomplished once the vegetative cover is robust enough to provide equivalent protection. At such time and in accordance with the approved reclamation plan those structures will be removed and the soils in such areas will be reclaimed. At this time Madison Sand & Gravel shall request the Dane County Land & Water Resources Department perform the necessary inspection and evaluation work to certify the reclamation as complete (COC) and to release the financial assurance.

3.5 Safety and Land Use

The reclaimed site will have gentler slopes and better water runoff control than the pre-mining site. This shall improve the local water and soil quality.

3.6 Sand and Gravel Products Usages

Typical use of sand and gravel are landscaping, concrete and asphalt aggregate, drain tile, rain gardens, cattle bedding, volleyball sand, and mortar mix

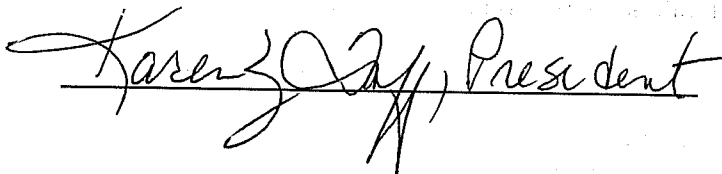
4. Certification and Assurance

4.1 Certification of Reclamation Plan

I hereby certify, as a duly authorized representative or agent, that Madison Sand & Gravel, shall comply with the provisions of the reclamation plan as well as the statewide nonmetallic mining reclamation standards as in § NR 135.05 through NR 135.15, Wis Asm. Code

Signature of Applicant or Duly Authorized agent

Date Signed


Karen Zapp, President

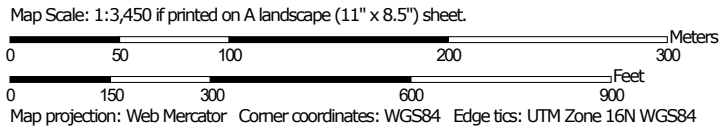
9-16-2020

Appendix A

Soil Map—Dane County, Wisconsin
(Kelley Pit)



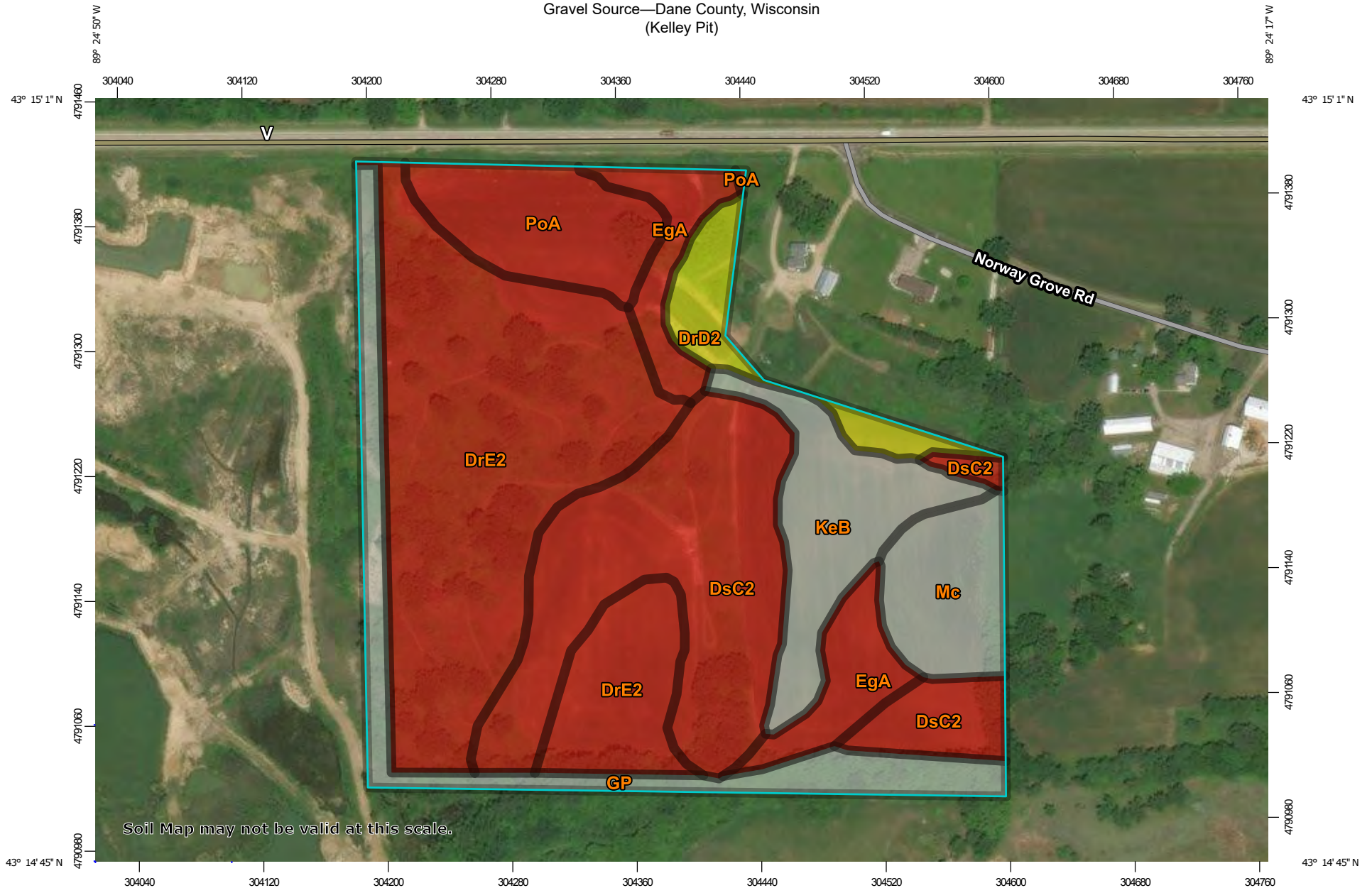
Soil Map may not be valid at this scale.



Map Unit Legend

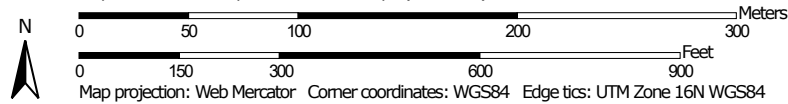
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DrD2	Dresden loam, 12 to 20 percent slopes, eroded	1.3	3.9%
DrE2	Dresden loam, 20 to 30 percent slopes, eroded	12.2	35.5%
DsC2	Dresden silt loam, 6 to 12 percent slopes, eroded	7.8	22.8%
EgA	Elburn silt loam, gravelly substratum, 0 to 3 percent slopes	2.5	7.2%
GP	Gravel pit	3.1	8.9%
KeB	Kegonsa silt loam, 2 to 6 percent slopes	3.0	8.6%
Mc	Marshan silt loam	2.0	5.8%
PoA	Plano silt loam, gravelly substratum, 0 to 2 percent slopes	2.5	7.3%
Totals for Area of Interest		34.3	100.0%

Gravel Source—Dane County, Wisconsin
(Kelley Pit)



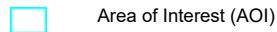
Soil Map may not be valid at this scale.

Map Scale: 1:3,450 if printed on A landscape (11" x 8.5") sheet.



MAP LEGEND

Area of Interest (AOI)



Area of Interest (AOI)

Background



Aerial Photography

Soils

Soil Rating Polygons



Poor



Fair



Good



Not rated or not available

Soil Rating Lines



Poor



Fair



Good



Not rated or not available

Soil Rating Points



Poor



Fair



Good



Not rated or not available

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dane County, Wisconsin
Survey Area Data: Version 19, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 17, 2014—Feb 12, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Gravel Source

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
DrD2	Dresden loam, 12 to 20 percent slopes, eroded	Fair	Dresden, eroded (90%)	Thickest layer (0.00)	1.3	3.9%
				Bottom layer (0.08)		
DrE2	Dresden loam, 20 to 30 percent slopes, eroded	Poor	Dresden, eroded (95%)	Thickest layer (0.00)	12.2	35.5%
				Bottom layer (0.00)		
			Boyer, eroded (3%)	Thickest layer (0.00)		
				Bottom layer (0.00)		
DsC2	Dresden silt loam, 6 to 12 percent slopes, eroded	Poor	Dresden, eroded (90%)	Thickest layer (0.00)	7.8	22.8%
				Bottom layer (0.00)		
			Casco, eroded (5%)	Thickest layer (0.00)		
				Bottom layer (0.00)		
EgA	Elburn silt loam, gravelly substratum, 0 to 3 percent slopes	Poor	Elburn, gravelly substratum (90%)	Thickest layer (0.00)	2.5	7.2%
				Bottom layer (0.00)		
GP	Gravel pit	Not rated	Pits, gravel (99%)		3.1	8.9%
			Aquents (1%)			
KeB	Kegonsa silt loam, 2 to 6 percent slopes	Not rated	Kegonsa (100%)		3.0	8.6%
Mc	Marshan silt loam	Not rated	Marshan (100%)		2.0	5.8%
PoA	Plano silt loam, gravelly substratum, 0 to 2 percent slopes	Poor	Plano, gravelly substratum (85%)	Thickest layer (0.00)	2.5	7.3%
				Bottom layer (0.00)		
Totals for Area of Interest					34.3	100.0%

Rating	Acres in AOI	Percent of AOI
Poor	25.0	72.8%

Rating	Acres in AOI	Percent of AOI
Fair	1.3	3.9%
Null or Not Rated	8.0	23.3%
Totals for Area of Interest	34.3	100.0%

Description

Gravel consists of natural aggregates (2 to 75 millimeters in diameter) suitable for commercial use with a minimum of processing. It is used in many kinds of construction. Specifications for each use vary widely. Only the probability of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material.

The properties used to evaluate the soil as a source of gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the bottom layer of the soil contains gravel, the soil is considered a likely source regardless of thickness. The assumption is that the gravel layer below the depth of observation exceeds the minimum thickness. The ratings are for the whole soil, from the surface to a depth of about 6 feet. Coarse fragments of soft bedrock, such as shale and siltstone, are not considered to be gravel.

The soils are rated "good," "fair," or "poor" as potential sources of gravel. A rating of "good" or "fair" means that the source material is likely to be in or below the soil. The bottom layer and the thickest layer of the soils are assigned numerical ratings. These ratings indicate the likelihood that the layer is a source of gravel. The number 0.00 indicates that the layer is a poor source. The number 1.00 indicates that the layer is a good source. A number between 0.00 and 1.00 indicates the degree to which the layer is a likely source.

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

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

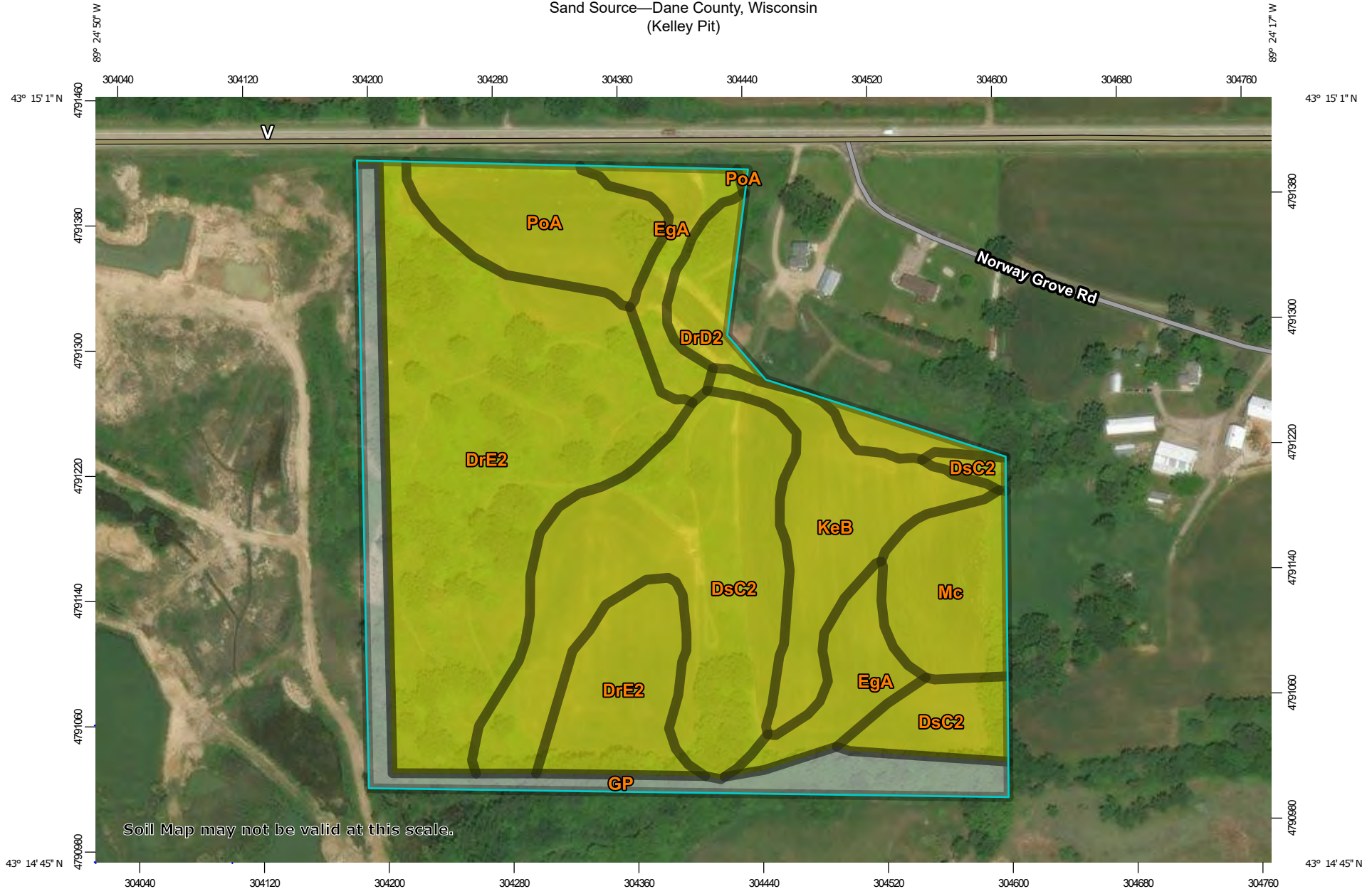
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

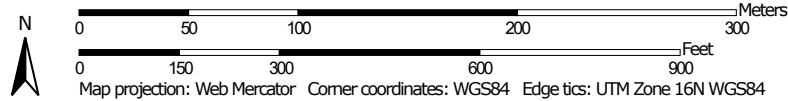
Tie-break Rule: Lower

Sand Source—Dane County, Wisconsin
(Kelley Pit)



Soil Map may not be valid at this scale.

Map Scale: 1:3,450 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84




Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/2/2020
Page 1 of 5

MAP LEGEND

Area of Interest (AOI)





 Area of Interest (AOI)

Background





 Aerial Photography

Soils





Soil Rating Polygons

-  Poor
-  Fair
-  Good
-  Not rated or not available


Soil Rating Lines

-  Poor
-  Fair
-  Good
-  Not rated or not available






Soil Rating Points

-  Poor
-  Fair
-  Good
-  Not rated or not available

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Survey Area Data: Version 19, Jun 8, 2020

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Date(s) aerial images were photographed: Apr 17, 2014—Feb 12, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Sand Source

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
DrD2	Dresden loam, 12 to 20 percent slopes, eroded	Fair	Dresden, eroded (90%)	Thickest layer (0.14)	1.3	3.9%
				Bottom layer (0.50)		
			Casco, eroded (6%)	Bottom layer (0.25)		
				Thickest layer (0.28)		
DrE2	Dresden loam, 20 to 30 percent slopes, eroded	Fair	Dresden, eroded (95%)	Thickest layer (0.10)	12.2	35.5%
				Bottom layer (0.51)		
			Boyer, eroded (3%)	Thickest layer (0.18)		
				Bottom layer (0.22)		
			Rodman (2%)	Bottom layer (0.50)		
				Thickest layer (0.65)		
DsC2	Dresden silt loam, 6 to 12 percent slopes, eroded	Fair	Dresden, eroded (90%)	Thickest layer (0.08)	7.8	22.8%
				Bottom layer (0.50)		
			Casco, eroded (5%)	Thickest layer (0.22)		
				Bottom layer (0.25)		
EgA	Elburn silt loam, gravelly substratum, 0 to 3 percent slopes	Fair	Elburn, gravelly substratum (90%)	Thickest layer (0.00)	2.5	7.2%
				Bottom layer (0.60)		
GP	Gravel pit	Not rated	Pits, gravel (99%)		3.1	8.9%
			Aquents (1%)			
KeB	Kegonsa silt loam, 2 to 6 percent slopes	Fair	Kegonsa (100%)	Bottom layer (0.00)	3.0	8.6%
				Thickest layer (0.00)		
Mc	Marshan silt loam	Fair	Marshan (100%)	Bottom layer (0.00)	2.0	5.8%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Thickest layer (0.07)		
PoA	Plano silt loam, gravelly substratum, 0 to 2 percent slopes	Fair	Plano, gravelly substratum (85%)	Thickest layer (0.00) Bottom layer (0.38)	2.5	7.3%
Totals for Area of Interest					34.3	100.0%

Rating	Acres in AOI	Percent of AOI
Fair	31.3	91.1%
Null or Not Rated	3.1	8.9%
Totals for Area of Interest	34.3	100.0%

Description

Sand is a natural aggregate (0.05 millimeter to 2 millimeters in diameter) suitable for commercial use with a minimum of processing. It is used in many kinds of construction. Specifications for each use vary widely. Only the probability of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material.

The properties used to evaluate the soil as a source of sand are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the bottom layer of the soil contains sand, the soil is considered a likely source regardless of thickness. The assumption is that the sand layer below the depth of observation exceeds the minimum thickness. The ratings are for the whole soil, from the surface to a depth of about 6 feet.

The soils are rated "good," "fair," or "poor" as potential sources of sand. A rating of "good" or "fair" means that sand is likely to be in or below the soil. The bottom layer and the thickest layer of the soil are assigned numerical ratings. These ratings indicate the likelihood that the layer is a source of sand. The number 0.00 indicates that the layer is a "poor source." The number 1.00 indicates that the layer is a "good source." A number between 0.00 and 1.00 indicates the degree to which the layer is a likely source.

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

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

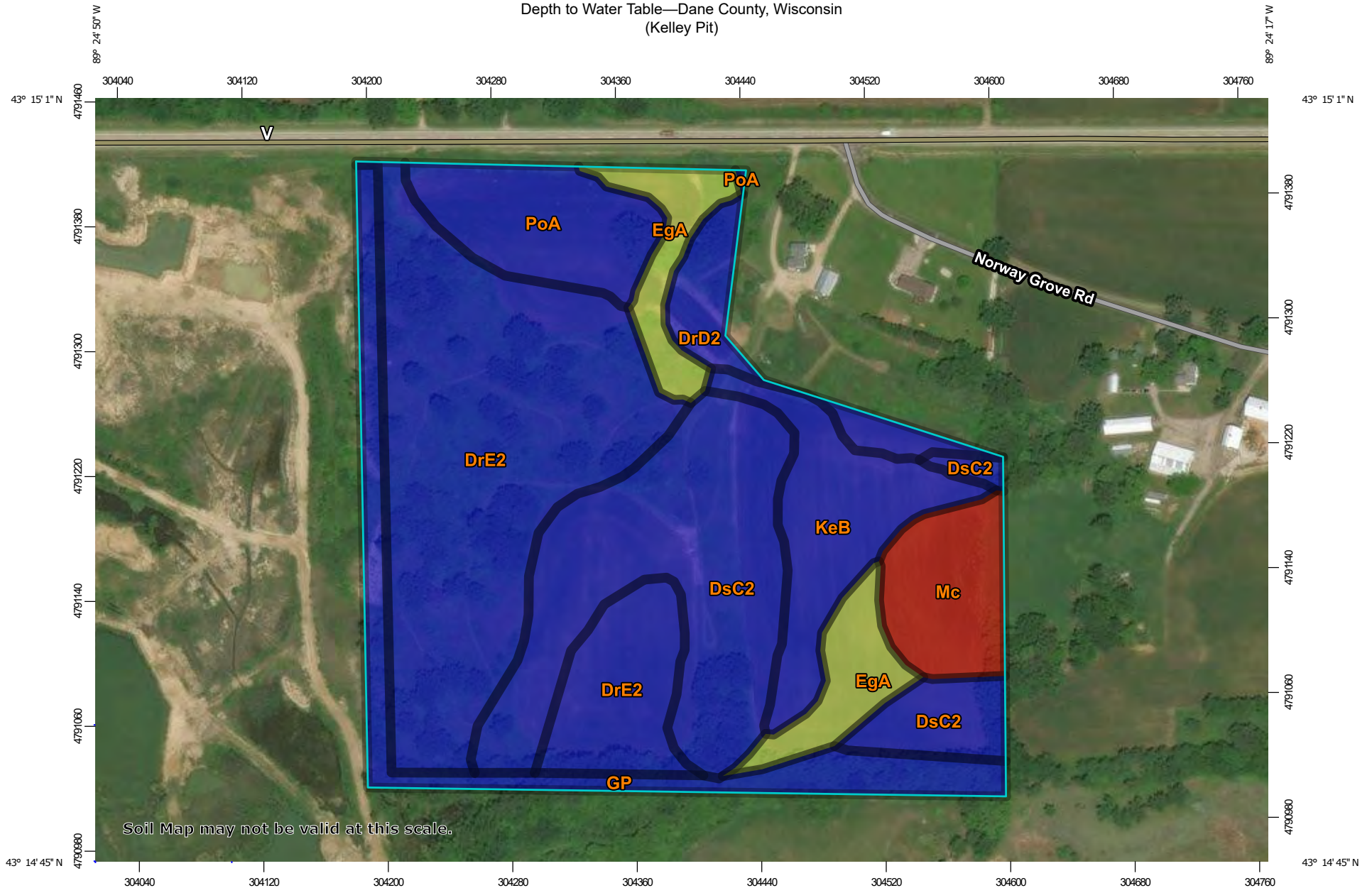
Rating Options

Aggregation Method: Dominant Condition

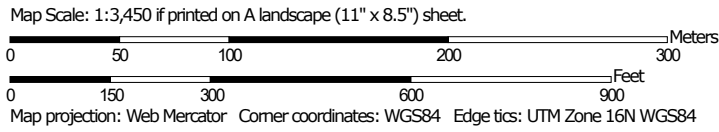
Component Percent Cutoff: None Specified

Tie-break Rule: Lower






























Depth to Water Table—Dane County, Wisconsin
(Kelley Pit)



Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)	 Not rated or not available
 Area of Interest (AOI)	
Soils	Water Features
Soil Rating Polygons	 Streams and Canals
 0 - 25	Transportation
 25 - 50	 Rails
 50 - 100	 Interstate Highways
 100 - 150	 US Routes
 150 - 200	 Major Roads
 > 200	 Local Roads
 Not rated or not available	Background
	 Aerial Photography
Soil Rating Lines	
 0 - 25	
 25 - 50	
 50 - 100	
 100 - 150	
 150 - 200	
 > 200	
 Not rated or not available	
Soil Rating Points	
 0 - 25	
 25 - 50	
 50 - 100	
 100 - 150	
 150 - 200	
 > 200	

MAP INFORMATION

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Survey Area Data: Version 19, Jun 8, 2020

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Date(s) aerial images were photographed: Apr 17, 2014—Feb 12, 2017

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Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
DrD2	Dresden loam, 12 to 20 percent slopes, eroded	>200	1.3	3.9%
DrE2	Dresden loam, 20 to 30 percent slopes, eroded	>200	12.2	35.5%
DsC2	Dresden silt loam, 6 to 12 percent slopes, eroded	>200	7.8	22.8%
EgA	Elburn silt loam, gravelly substratum, 0 to 3 percent slopes	61	2.5	7.2%
GP	Gravel pit	>200	3.1	8.9%
KeB	Kegonsa silt loam, 2 to 6 percent slopes	>200	3.0	8.6%
Mc	Marshan silt loam	0	2.0	5.8%
PoA	Plano silt loam, gravelly substratum, 0 to 2 percent slopes	>200	2.5	7.3%
Totals for Area of Interest			34.3	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

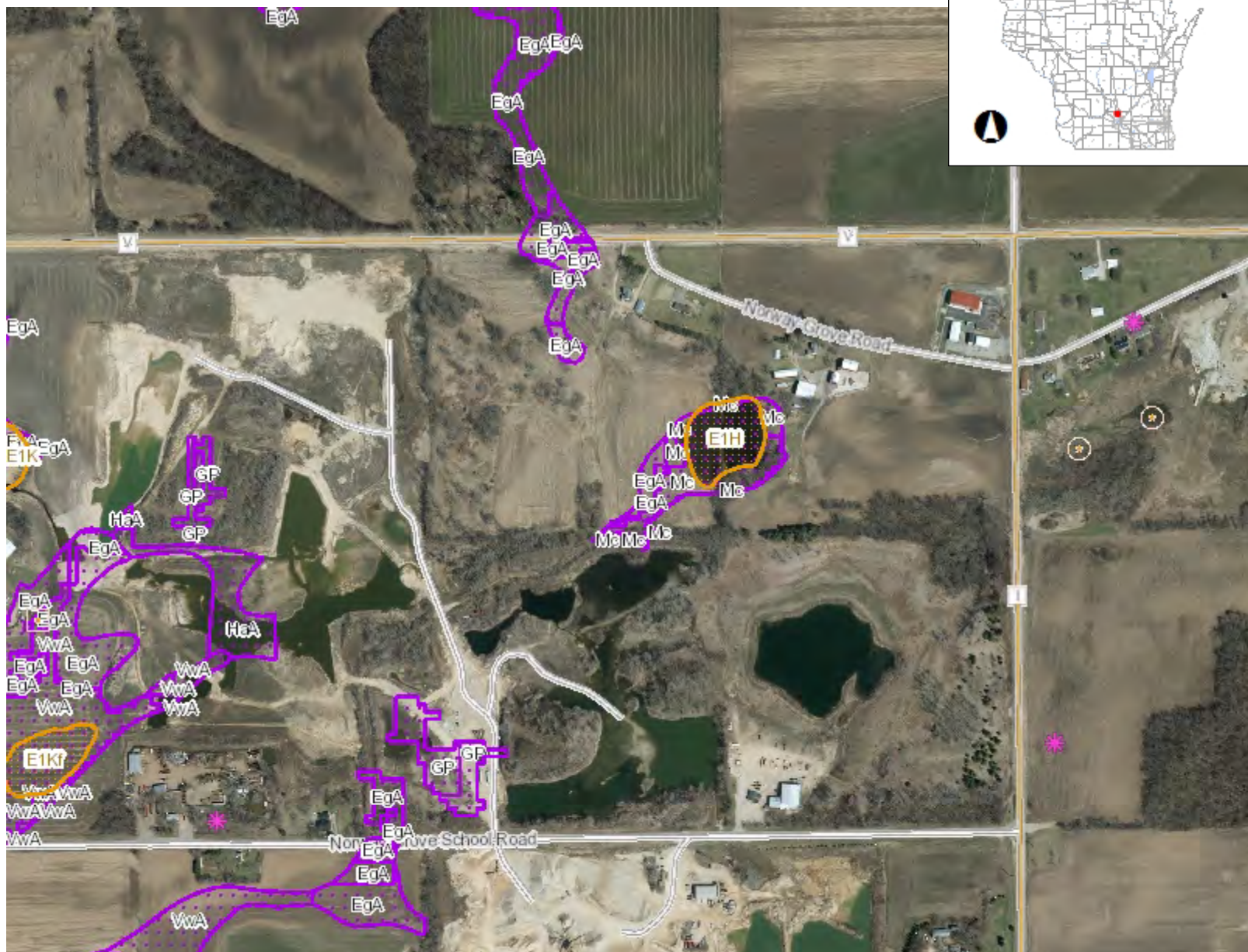
Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December



Surface Water Data Viewer Map



- Legend**
- ◆ Wetland Identifications and Confirmations
 - Wetland Class Points**
 - ▲ Dammed pond
 - Excavated pond
 - Filled excavated pond
 - ▲ Filled/draind wetland
 - Wetland too small to delineate
 - /// Filled Points
 - Wetland Class Areas**
 - Wetland
 - Upland
 - ▨ Filled Areas
 - Wetland Class Points**
 - ▲ Dammed pond
 - Excavated pond
 - Filled excavated pond
 - ▲ Filled/draind wetland
 - Wetland too small to delineate
 - /// Filled Points
 - Wetland Class Areas**
 - Wetland
 - Upland
 - ▨ Filled Areas
 - ✱ NRCS Wetspots
 - Maximum Extent Wetland Indicators
 - Municipality
 - State Boundaries
 - County Boundaries
 - Major Roads**
 - Interstate Highway
 - State Highway
 - US Highway
 - County and Local Roads



NAD_1983_HARN_Wisconsin_TM

1: 7,920

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

Notes

Appendix B



Assured Wetland Delineation Report

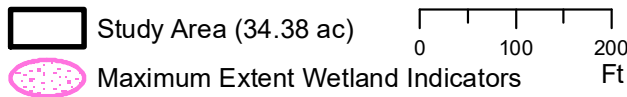
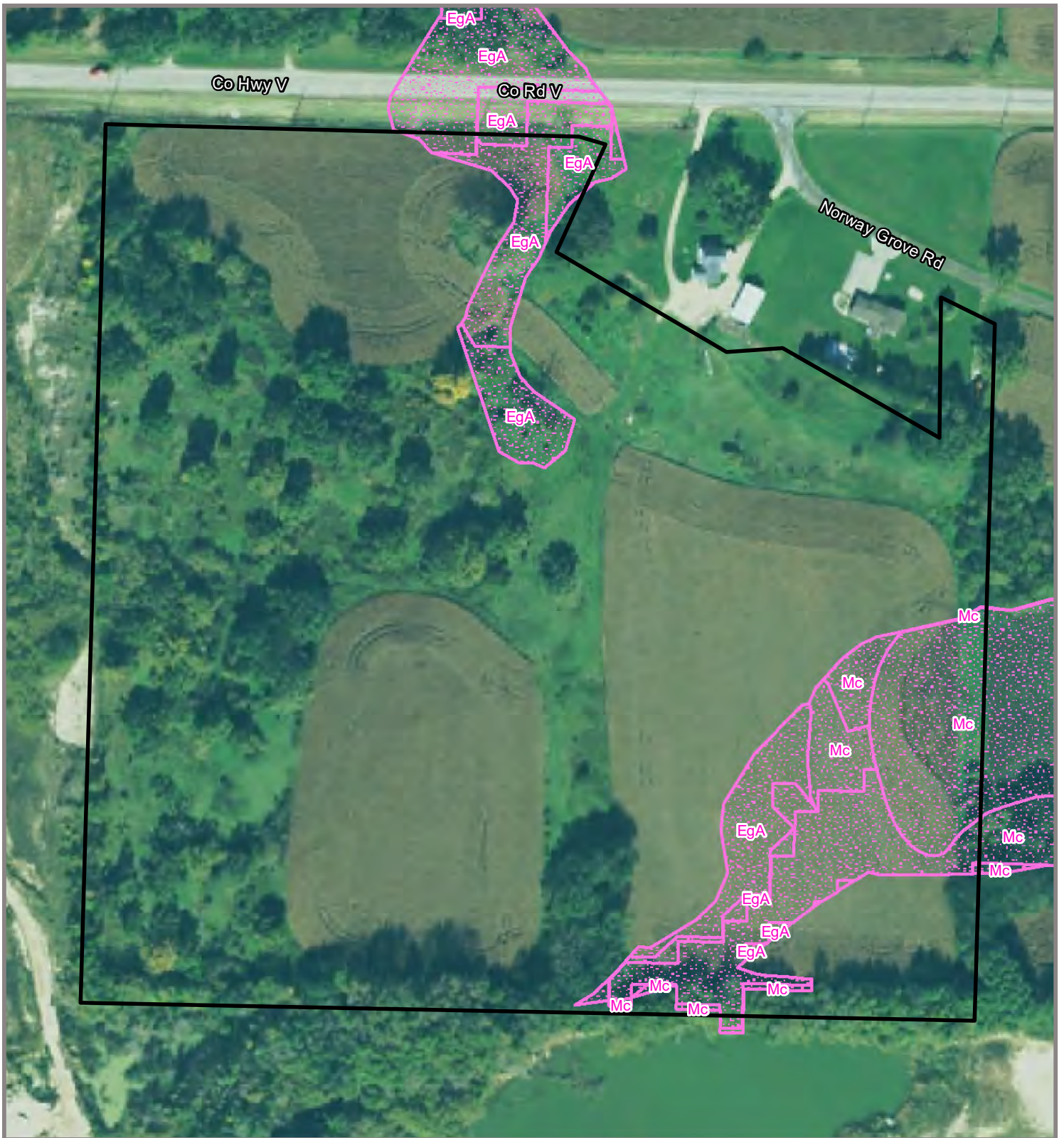
Kelley Pit Addition

Town of Vienna

Dane County, Wisconsin

May 15, 2020

Project Number: 20200297



Heartland
 ECOLOGICAL GROUP INC

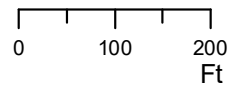
**Figure 4. SWDV
 Wetland Indicators**

Kelley Pit
 Project #20200297
 T9N, R9E, S22
 T Vienna, Dane Co, WI

2018 NAIP
 Data: WDNR 4/12/2020



- Study Area (34.38 ac)
- Dane Co 1' Contours
- Field Delineated Wetlands (2.07 ac)
- Sample Points**
- Upland
- Wetland



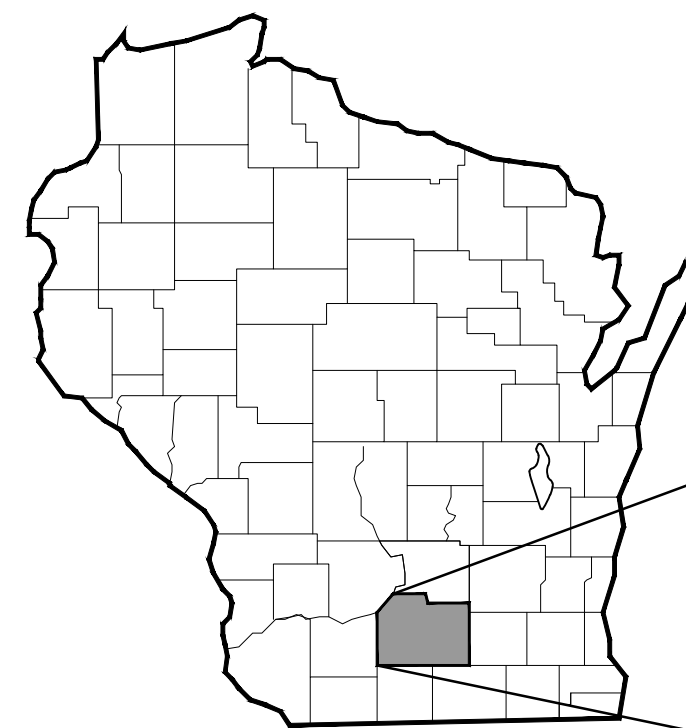
Heartland
ECOLOGICAL GROUP INC

Figure 6. Field Delineated Wetlands
 Kelley Pit
 Project #20200297
 T9N, R9E, S22
 T Vienna, Dane Co, WI
 2018 NAIP
 Data: Dane Co 4/21/2020

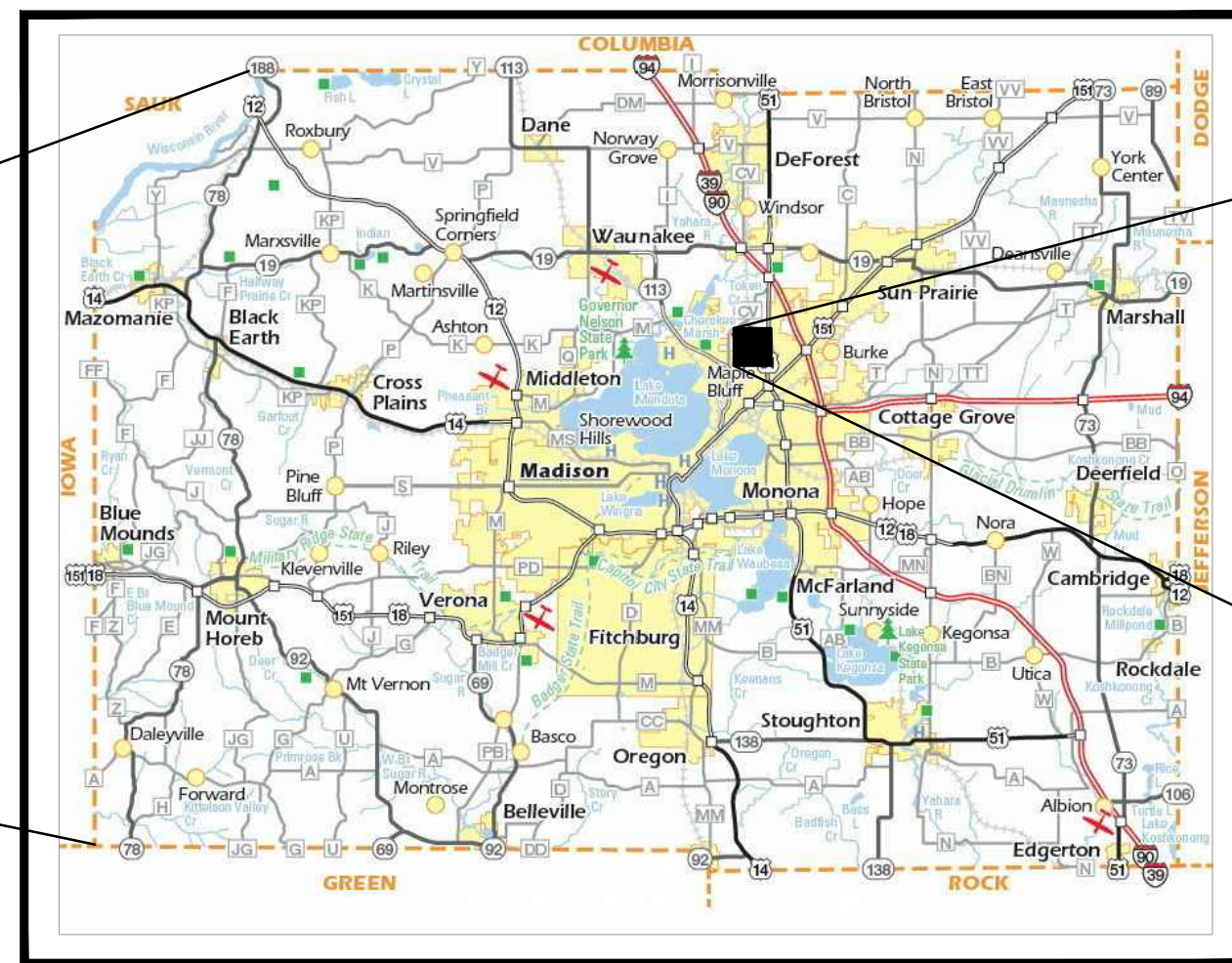
Appendix C

MADISON SAND & GRAVEL KELLEY PIT ADDITION

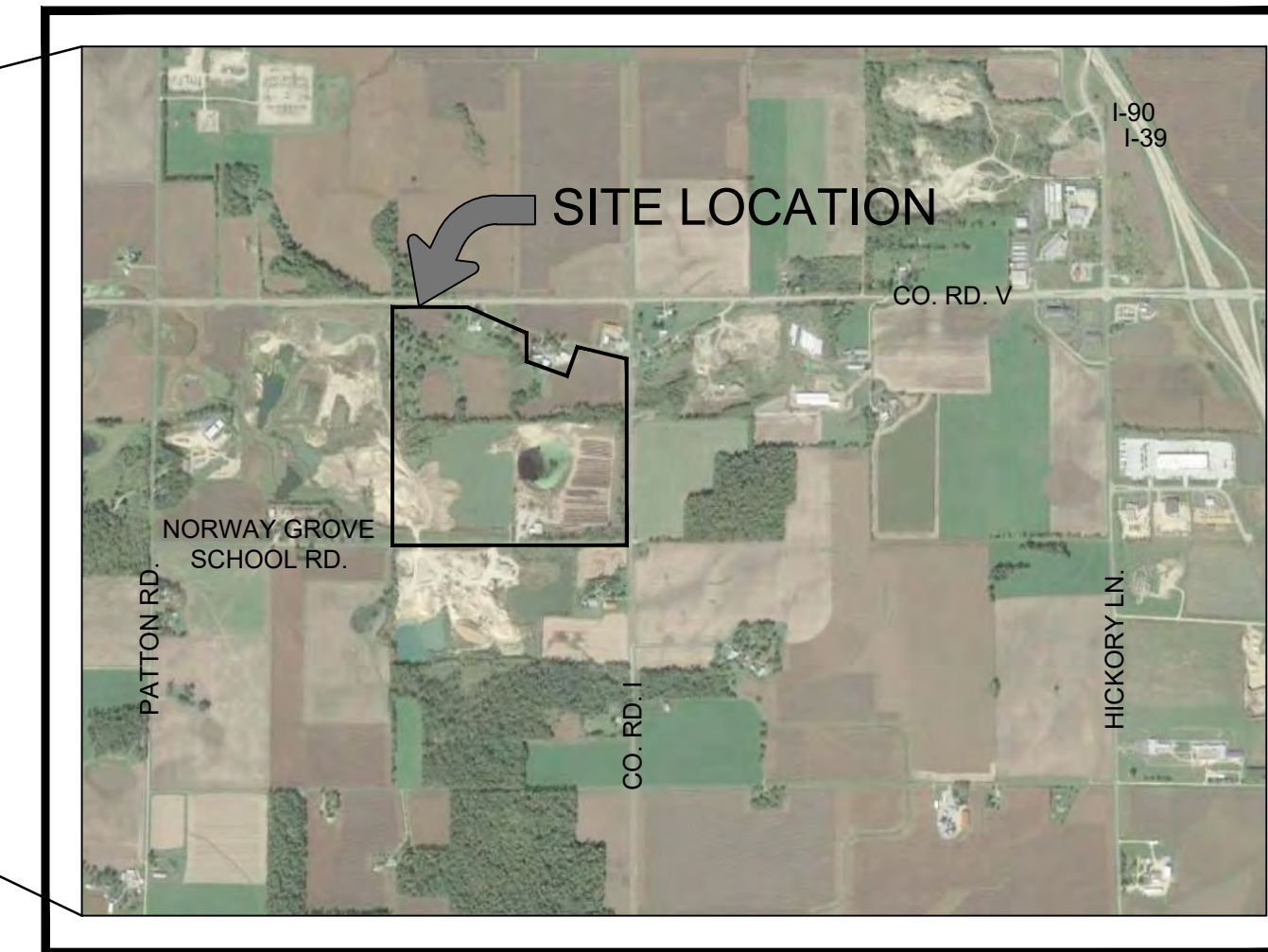
5379 COUNTY HIGHWAY V



REGIONAL MAP



DANE COUNTY



SITE LOCATION MAP

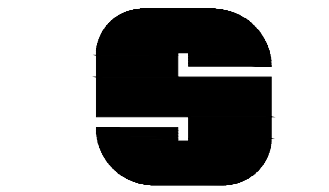
TOWN OF VIENNA

SHEET #	SHEET TITLE
C 100	TITLE SHEET
C101	LEGEND & NOTES
C200	EXISTING SITE PLAN
C201	PROPERTY OWNERSHIP MAP
C202	CERTIFIED SURVEY MAP
C203	MINING PLAN
C300	RECLAMATION PLAN
C400	RECLAMATION PROFILES
C500	EROSION CONTROL DETAILS


 TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = NTS	
Technician: MW	Date: SEPT 11, 2020	T-R-S: 9N 9E 22	
Project No: 119.1080.30			Sheet C 100

KELLEY PIT ADDITION
TOWN OF VIENNA, WISCONSIN
TITLE SHEET
SNYDER & ASSOCIATES, INC.
2727 S.W. SNYDER BLVD
 ANKENY, IOWA 50023
 515-964-2020 | www.snyder-associates.com


SNYDER & ASSOCIATES
 Project No: 119.1080.30
 Sheet C 100

V:\Projects\20191118_1080_30\CADD\1191080_Plan\1191080_Plan.dwg MARK: WAHL, 1/11/2020 09:08 - PLAN - C 100, 2020/09/08, 4:52 PM, ANSI FULL BLEED D (34.00 X 22.00 INCHES)

LEGEND

FEATURES

Spot Elevation		X 1225.25	
Contour Elevation		1225	
Fence (Barbed, Field, Hog)			
Fence (Chain Link)			
Fence (Wood)			
Fence (Silt)			
Tree Line			
Tree Stump			
Deciduous Tree \ Shrub			
Coniferous Tree \ Shrub			
Communication			
Overhead Communication			
Fiber Optic			
Underground Electric			
Overhead Electric			
Gas Main with Size			
High Pressure Gas Main with Size			
Water Main with Size			
Sanitary Sewer with Size			
Duct Bank			
Test Hole Location for SUE w/ID			
Sanitary Manhole			
Storm Sewer with Size			
Storm Manhole			
Single Storm Sewer Intake			
Double Storm Sewer Intake			
Fire Hydrant			
Fire Hydrant on Building			
Water Main Valve			
Water Service Valve			
Well			
Utility Pole			
Guy Anchor			
Utility Pole with Light			
Utility Pole with Transformer			
Street Light			
Yard Light			
Electric Box			
Electric Transformer			
Traffic Sign			
Communication Pedestal			
Communication Manhole			
Communication Handhole			
Fiber Optic Manhole			
Fiber Optic Handhole			
Gas Valve			
Gas Manhole			
Gas Apparatus			
Fence Post or Guard Post			
Underground Storage Tank			
Above Ground Storage Tank			
Sign			
Satellite Dish			
Mailbox			
Sprinkler Head			
Irrigation Control Valve			

(*) Denotes the survey quality service level for utilities

ZONING

RM-16 (RURAL MIXED USE ZONING DISTRICT)

FIRE LANE:

COUNTY ROAD V WILL ACT AS THE FIRE LANE ACCESS TO THE SITE

NOTE:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES ON AND ADJACENT TO THE SITE PRIOR TO THE START OF THE PROJECT.

GENERAL NOTES

- NOTIFY UTILITY PROVIDERS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES AND COORDINATE WITH UTILITY PROVIDERS AS NECESSARY DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION, AND DEPTH OF ALL UTILITIES. PROTECT ALL UTILITY LINES AND STRUCTURES NOT SHOWN FOR REMOVAL OR MODIFICATION. ANY DAMAGES TO UTILITY ITEMS NOT SHOWN FOR REMOVAL OR MODIFICATION SHALL BE REPAIRED TO THE UTILITY OWNER'S SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
- DIMENSIONS, BUILDING LOCATION, UTILITIES AND GRADING OF THIS SITE ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THIS PLAN AND FIELD CONDITIONS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERIFICATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO LOAD AND TRANSPORT ALL MATERIALS CONSIDERED TO BE UNDESIRABLE TO BE INCORPORATED INTO THE PROJECT TO AN APPROVED OFF-SITE WASTE SITE.
- CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED. RESPREAD TO MINIMUM 6" DEPTH TO FINISH GRADES.
- THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM NEIGHBORING STREETS, DRIVEWAYS, AND SIDEWALKS CAUSED BY CONSTRUCTION ACTIVITIES IN A TIMELY MANNER.
- THE ADJUSTMENT OF ANY EXISTING UTILITY APPURTANANCES TO FINAL GRADE IS CONSIDERED INCIDENTAL TO THE SITE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EROSION CONTROL MEASURES AS NECESSARY. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING ANY EXISTING EROSION CONTROL MEASURES ON SITE AT THE TIME OF CONSTRUCTION. GRADING AND SOIL EROSION CONTROL CODE REQUIREMENTS SHALL BE MET BY CONTRACTOR. A GRADING PERMIT IS REQUIRED FOR THIS PROJECT.
- CONTRACTOR TO COORDINATE NATURAL GAS, ELECTRICAL, TELEPHONE AND ANY OTHER UTILITY SERVICES WITH UTILITY SERVICE PROVIDER, AND THE OWNER PRIOR TO CONSTRUCTION.

EROSION CONTROL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WISDNR WPDES DISCHARGE PERMIT AND DANE COUNTY EROSION CONTROL PERMIT. CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
- ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD, FOUND AT: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html OR THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK IF A TECHNICAL STANDARD IS NOT AVAILABLE.
- ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH ALL APPLICABLE PERMITS ISSUED FOR THE PROJECT.
- ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. REPAIRS SHALL BE MADE IMMEDIATELY TO EROSION CONTROL PRACTICES AS NECESSARY.
- TEMPORARY STOCKPILES SHALL BE STABILIZED IF NOT REMOVED IN 10 DAYS. PERIMETER CONTROL ON THE DOWNHILL SIDE SHALL BE IN PLACE AT ALL TIMES (SILT FENCE OR APPROVED EQUAL).
- TEMPORARY SEED MIXTURE SHALL CONFORM TO 630.2.1.5.1.4 OF THE WISDOT STANDARD SPECIFICATIONS USE WINTER WHEAT OR RYE FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 15TH.
- DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM) IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050.
- SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS TO MAINTAIN A THREE FOOT DEPTH OF TREATMENT, MEASURED BELOW THE NORMAL WATER ELEVATION. SEDIMENT WILL BE REMOVED FROM THE DIVERSION DITCHES WHEN IT REACHES HALF THE HEIGHT OF THE DITCH. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REACHES HALF THE HEIGHT OF THE FENCE/BALE THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 PRIOR TO DISCHARGE TO WATERS OF THE STATE, WETLANDS, OR OFFSITE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY EROSION CONTROL AND/OR SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
- TRACKED MATERIAL TO ADJACENT STREETS SHALL BE COLLECTED AT THE END OF EACH WORKING DAY OR AS REQUIRED BY THE CITY OF JAMESVILLE.
- DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 106B.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EROSION CONTROL FACILITIES AND MEASURES NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT THE PROJECT SITE. THESE FACILITIES AND MEASURES MAY OR MAY NOT BE SHOWN ON THE DRAWINGS AND THEIR ABSENCE ON THE DRAWINGS DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING THEM. ANY MEASURES AND FACILITIES SHOWN ON THE DRAWINGS ARE THE MINIMUM ACTIONS REQUIRED.
- ERODED MATERIAL THAT HAS LEFT THE CONSTRUCTION SITE SHALL BE COLLECTED AND RETURNED TO THE SITE BY THE CONTRACTOR.
- AFTER FINAL VEGETATION IS ESTABLISHED, REMOVE ALL EROSION CONTROL FACILITIES. RESTORE AREAS DISTURBED BY THE REMOVALS.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE. CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARDS.
- PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
- WATERING OF NEW SEEDING SHALL BE OF A DURATION AND FREQUENCY ADEQUATE TO ENSURE PROPER ESTABLISHMENT OF NEW SEEDING.
- MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
- ALL FINAL GRADING SHALL HAVE A MINIMUM SLOPE OF 2% AS THE FINAL GRADE WITH NO FLAT AREAS. NO FINAL GRADES SHALL HAVE A SLOPE STEEPER THAN 3:1.

KELLEY PIT ADDITION

LEGEND & NOTES

SNYDER & ASSOCIATES, INC. |

TOWN OF VIENNA, WISCONSIN

2727 S.W. SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | www.snyder-associates.com

MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = NTS	
Technician: MW	Date: SEPT 11, 2020	T-R-S: 9N 9E 22	
Project No: 119.1080.30			Sheet C 101

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

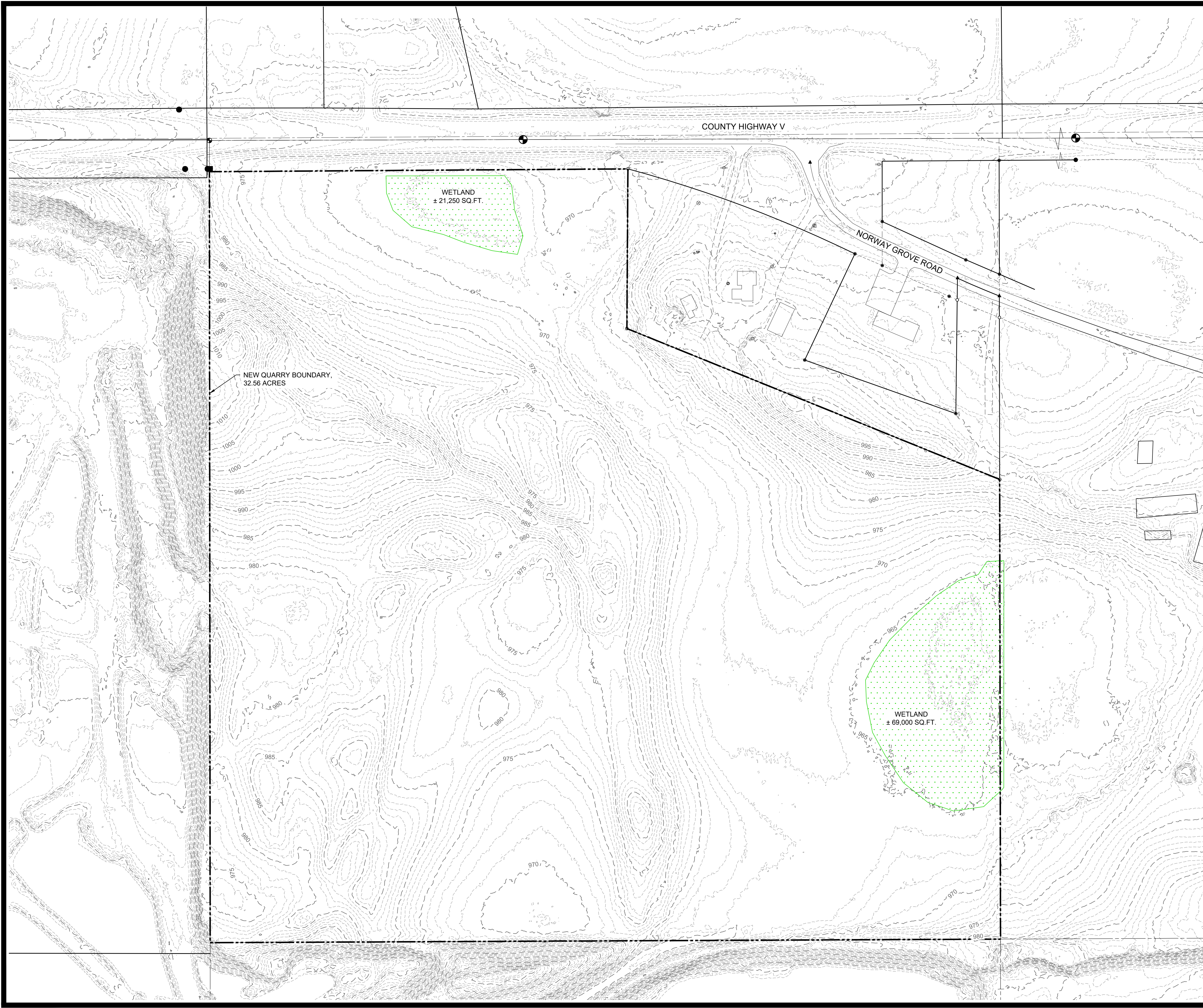
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

SNYDER & ASSOCIATES

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**KELLEY PIT ADDITION
EXISTING TOPOGRAPHIC PLAN**



**SNYDER
& ASSOCIATES**
Project No: 119.1080.30
Sheet C 200

TOWN OF VIENNA, WISCONSIN

SNYDER & ASSOCIATES, INC. |
2727 S.W. SNYDER BLVD
ANKENY, IOWA 50023
515-984-2020 | www.snyder-associates.com

MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = 80'	
Technician: MW	Date: SEPT 11, 2020	T-R-S: 9N 9E 22	
Project No: 119.1080.30			Sheet C 200

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MADISON GAS & ELECTRIC
COUNTY HWY V
Zoning FP-35

MELISSA HAHN
5404 COUNTY HWY V
Zoning RR-1

STEVEN FOX
5394 COUNTY HWY V
Zoning RR-2

4D FARMS, LLC
COUNTY HWY V
Zoning FP-35

DOUGLAS MIDTHUN
7233 WIBU RD

COUNTY HIGHWAY V

WETLAND
± 21,250 SQ.FT.

BRENT KELLEY
COUNTY HWY V

DOUGLAS MIDTHUN
COUNTY HWY V
Zoning FP-1

BRENT KELLEY
5339 NORWAY GROVE RD
Zoning SFR-08

NEW QUARRY BOUNDARY,
32.56 ACRES

MADISON SAND &
GRAVEL CO. INC
Zoning FP-35

4D FARMS, LLC
5379 COUNTY HIGHWAY V
Zoning RM-16

DOUGLAS MIDTHUN
5323 NORWAY GROVE RD
Zoning RM-16

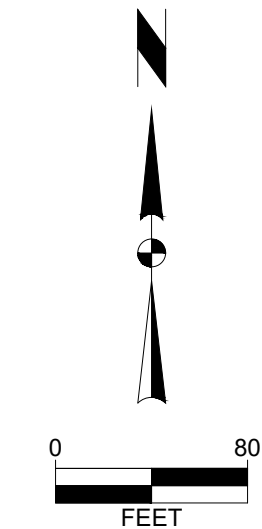
LEGAL DESCRIPTION OF MINERAL EXTRACTION AREA:
PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4,
SECTION 22, TOWN 9 NORTH, RANGE 9 EAST,
TOWN OF VIENNA, DANE COUNTY, WISCONSIN

Part of the Northwest 1/4 of the Northeast 1/4 of Section 22,
Township 9 North, Range 9 East, in the Town of Vienna, Dane
County, Wisconsin, EXCEPT that part conveyed in Warranty
Deed recorded in Vol. 762 of Deeds, page 144, as #1079027;
ALSO EXCEPT Certified Survey Map 4794, recorded in Vol. 21 of
Certified Survey Maps, page 152, as #1905094 and corrected in
Certified Survey Map 5197, recorded in Vol. 23 of Certified
Survey Maps, page 275, as #2005108; ALSO EXCEPT Lot 2,
Certified Survey Map 5197, recorded in Vol. 23 of Certified
Survey Maps, page 275, as #2005108, in the Town of Vienna,
Dane County, Wisconsin; ALSO EXCEPT Lot 1, Certified Survey
Map No. _____, recorded in Vol. _____ Certified
Survey Maps, page(s) _____, as Doc. No. _____,
in the Town of Vienna, Dane County, Wisconsin.

WETLAND
± 69,000 SQ.FT.

MADISON SAND &
GRAVEL CO. INC
Zoning FP-35

LB LAND INVESTMENTS INC
Zoning RI



MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = 80'	
Technician: MW	Date: SEPT 11, 2020	T-R-S: 9N 9E 22	
Project No: 119.1080.30			Sheet C 201

KELLEY PIT ADDITION
PROPERTY OWNERSHIP MAP
TOWN OF VIENNA, WISCONSIN

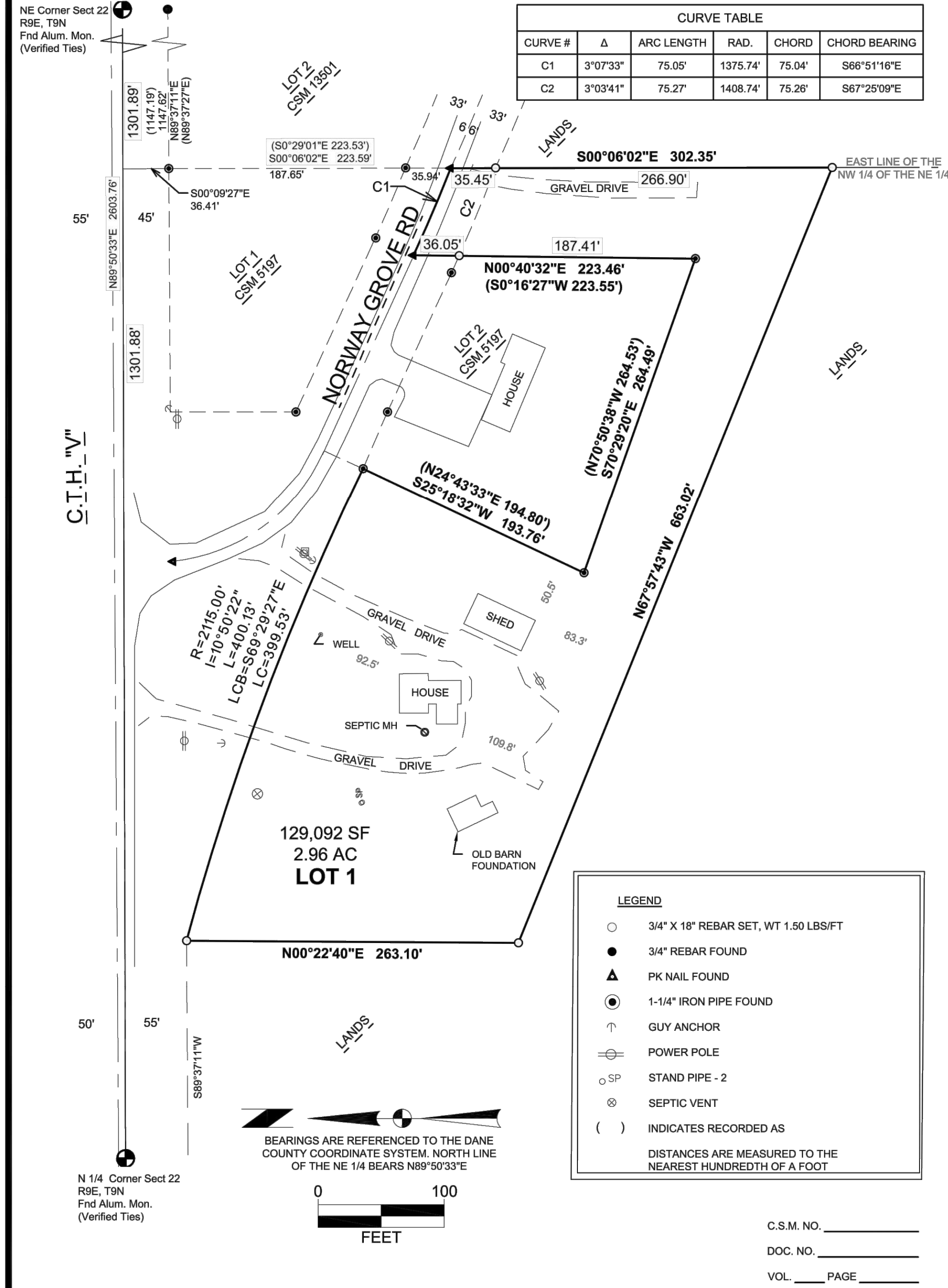
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ANKENY, IOWA 50023
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Project No: 119.1080.30
Sheet C 201

CERTIFIED SURVEY MAP No. _____

PART OF NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22,
TOWNSHIP 9 NORTH, RANGE 9 EAST, TOWN OF VIENNA, DANE COUNTY, WISCONSIN.



CURVE #	Δ	ARC LENGTH	RAD.	CHORD	CHORD BEARING
C1	3°07'33"	75.05'	1375.74'	75.04'	S66°51'16"E
C2	3°03'41"	75.27'	1408.74'	75.26'	S67°25'09"E

LEGEND	
○	3/4" X 18" REBAR SET, WT 1.50 LBS/FT
●	3/4" REBAR FOUND
▲	PK NAIL FOUND
⊙	1-1/4" IRON PIPE FOUND
↑	GUY ANCHOR
⊖	POWER POLE
○ SP	STAND PIPE - 2
⊗	SEPTIC VENT
()	INDICATES RECORDED AS
DISTANCES ARE MEASURED TO THE NEAREST HUNDREDTH OF A FOOT	

SNYDER & ASSOCIATES

SURVEYED FOR:
4 D Farms, LLC
6756 Old 113 Rd
Dane, WI 53529

SURVEYED BY:
Snyder & Associates, Inc.
5010 Voges Road
Madison, WI 53718
(608) 838-0444
www.snyder-associates.com

FN: 119.1080.30
DATE: 04-29-2020
REVISIONS:
REV1
REV2
REV3

C.S.M. NO. _____
DOC. NO. _____
VOL. _____ PAGE _____

SHEET 1 OF 2

CERTIFIED SURVEY MAP No. _____

PART OF NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22,
TOWNSHIP 9 NORTH, RANGE 9 EAST, TOWN OF VIENNA, DANE COUNTY, WISCONSIN.

SURVEYOR'S CERTIFICATE

I, Eric E. Lindaas, Professional Land Surveyor, hereby certify that in full compliance with the provisions of Chapter 236.34 of the Wisconsin Statutes and the subdivision regulations, Code of Ordinances of the Town of Vienna and under the direction of 4 D Farms, LLC owner of said land, I have surveyed, divided and mapped this Certified Survey Map; that such Certified Survey Map correctly represents all exterior boundaries and the subdivision of the land surveyed; and that this land is more fully described as follows:

Being part of the Northwest 1/4 of the Northeast 1/4 of Section 22, Township 9 North, Range 9 East, Town of Vienna, Dane County, Wisconsin more fully described as follows:

Commencing at the North 1/4 corner of said Section 22, Town 9 North, Range 9 East;
Thence N89°50'30"E, 1301.88 feet along the North line of the Northeast 1/4 to the East line of the Northwest 1/4 of the Northeast 1/4;
Thence S00°06'02"E, 223.59 feet along the said East line to the centerline of Norway Grove Road being the Point of Beginning;
Thence continuing S00°06'02"E, 302.35 feet;
Thence N67°57'43"W, 663.02 feet;
Thence N00°22'40"E, 263.10 feet to the South right of way of C.T.H. "N";
Thence along an arc of curve 400.13 feet with a radius of 2115.00 feet whose cord bears S69°29'27"E, 399.53 feet to the Northeast Corner of Lot 2, CSM 5197;
Thence S25°18'23"W, 193.76 feet along the Westerly line of said Lot 2;
Thence S70°29'29"E, 264.49 feet along the Southerly line of said Lot 2;
Thence N00°40'32"E, 223.46 feet along the Easterly line of said Lot 2 to the Centerline of said Norway Grove Road;
Thence along an arc of curve 75.05 feet with a radius of 1375.74 feet whose cord bears S66°51'16"E, 75.04 feet to the Point of Beginning;

This description contains 129,092 square feet or 2.96 acres more or less.

Dated this _____ day of _____, 2020.

Signed:
Eric E. Lindaas, P.L.S. No. 2919
Snyder & Associates, Inc.
5010 Voges Road
Madison, WI 53718
608-838-0444
elindaas@snyder-associates.com

DANE COUNTY APPROVAL

Approved for recording per the Dane County Zoning & Land Regulation Committee action on the _____ day of _____, 2020.

By: _____ Date: _____
Daniel Everson, Planning and Zoning

TOWN OF VIENNA RESOLUTION

Resolved that the certified survey map located in the Town of Vienna was hereby approved on the _____ day of _____, 2020.

Approved By: _____
Town Clerk

REGISTER OF DEEDS CERTIFICATE

Received for recording this _____ day of _____, 2020, at _____ o'clock __m. and recorded in Volume _____ of Certified Survey Maps on pages _____ as Doc. No. _____.

Kristi Chlebowski, Dane County Register of Deeds

SNYDER & ASSOCIATES

SURVEYED FOR:
4 D Farms, LLC
6756 Old 113 Rd
Dane, WI 53529

SURVEYED BY:
Snyder & Associates, Inc.
5010 Voges Road
Madison, WI 53718
(608) 838-0444
www.snyder-associates.com

FN: 119.1080.30
DATE: 04-29-2020
REVISIONS:
REV1
REV2
REV3

C.S.M. NO. _____
DOC. NO. _____
VOL. _____ PAGE _____

SHEET 2 OF 2

KELLEY PIT ADDITION
CERTIFIED SURVEY MAP
SNYDER & ASSOCIATES, INC. |

TOWN OF VIENNA, WISCONSIN

Project No: 119.1080.30
Sheet C 202

SNYDER & ASSOCIATES

Project No: 119.1080.30
Sheet C 202

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NOTES:

1. THE PROPOSED BERMS WILL BE MADE UP OF THE STRIPPED TOPSOIL AND UNDESIRABLE MATERIALS FOUND IN THE PIT.
2. THE BERMS WILL RECEIVE 6" OR TOPSOIL WITH SEED AND MULCH.
3. SILT FENCE SHALL BE PLACED AROUND THE TOE OF THE BERMS UNTIL VEGETATION IS ESTABLISHED.
4. MATERIAL EXTRACTION WILL START AT THE SOUTHWEST CORNER IN THE EXISTING PIT AND PROCEED TO THE NORTHEAST. ALL STORM WATER RUNOFF WILL BE CAPTURED INTERNALLY AS THE EXISTING MADISON SAND AND GRAVEL PIT OPERATES TODAY.
5. ALL MINING ACCESS WILL COME FROM THE EXISTING PIT, NO NEW ACCESS IS REQUESTED FOR THIS PERMIT.

I:\sandy\01\Volume\Projects\2019\1191080_30\CADD\1191080 - PLAN - MINING.dwg SCOTT ANDERSON, 11/19/2019, 2:29 PM, ANSI FULL BLEED D (34.00 X 22.00 INCHES)

MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = 80'	
Technician: MW	Date: SEPT 16, 2020	T-R-S: 9N 9E 22	
Project No: 119.1080.30			Sheet C 203

TOWN OF VIENNA, WISCONSIN
 2727 S.W. SNYDER BLVD
 ANKENY, IOWA 50023
 515-964-2020 | www.snyder-associates.com

KELLEY PIT ADDITION
MINING PLAN
SNYDER & ASSOCIATES, INC. |

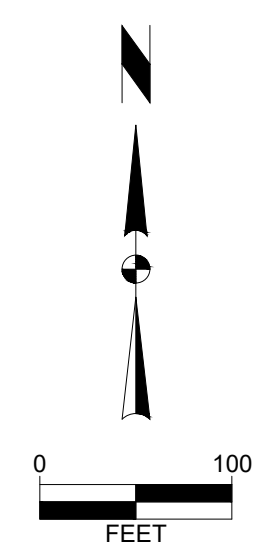


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NOTES:

1. MAXIMUM SIDE SLOPES ON RECLAMATION AREA IS 3:1
2. ALL RECLAIMED AREA SHALL RECEIVE AT A MINIMUM OF 6" OF TOPSOIL
3. ALL DISTURBED AREAS WILL RECEIVE TOPSOIL, SEED, MULCH, AND EROSION MATS ON ALL AREA GRADED 4:1 OR STEEPER
4. MINIMUM GRADE FOR SHEET FLOW SHALL BE 1%
5. ALL TOPSOIL SHALL STAY ONSITE TO BE USED FOR BERMS AND RECLAMATION. SILT FENCE SHALL BE INSTALLED AROUND ALL TOPSOIL PILES
6. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCES
7. NO SIGNAGE WILL BE A PART OF THIS DEVELOPMENT
8. MAXIMUM SIDE SLOPES ON RECLAMATION AREA IS 3:1
9. ALL RECLAIMED AREA SHALL RECEIVE AT A MINIMUM OF 6" OF TOPSOIL
10. ALL DISTURBED AREAS WILL RECEIVE TOPSOIL, SEED, MULCH, AND EROSION MATS ON ALL AREA GRADED 4:1 OR STEEPER
11. MINIMUM GRADE FOR SHEET FLOW SHALL BE 1%
12. ALL TOPSOIL SHALL STAY ONSITE TO BE USED FOR BERMS AND RECLAMATION
13. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCES
14. WETLANDS WILL NOT BE DISTURBED
15. PROPOSED LAKE AS SHOWN IN ADJOINING MADISON SAND AND GRAVEL RECLAMATION PLANS.
APPROXIMATE WATER ELEV. : ± 949.00'
BOTTOM OF LAKE ELEV. : ± 919.00'



MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = 40'	
Technician: MW	Date: SEPT 11, 2020	1"=40-S, 9N 9E 22	
Project No: 119,1080.30			Sheet C 300

TOWN OF VIENNA, WISCONSIN

KELLEY PIT ADDITION

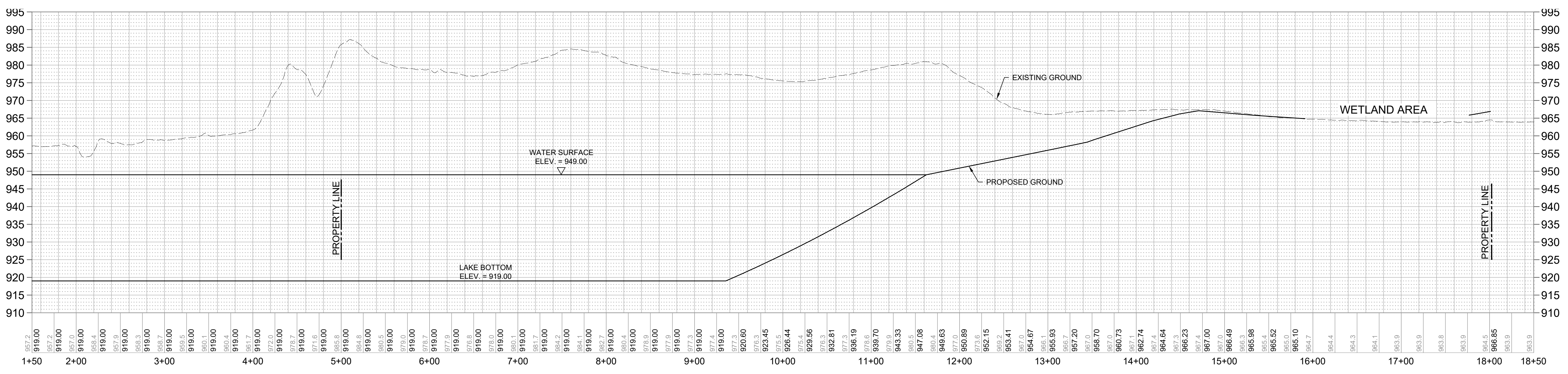
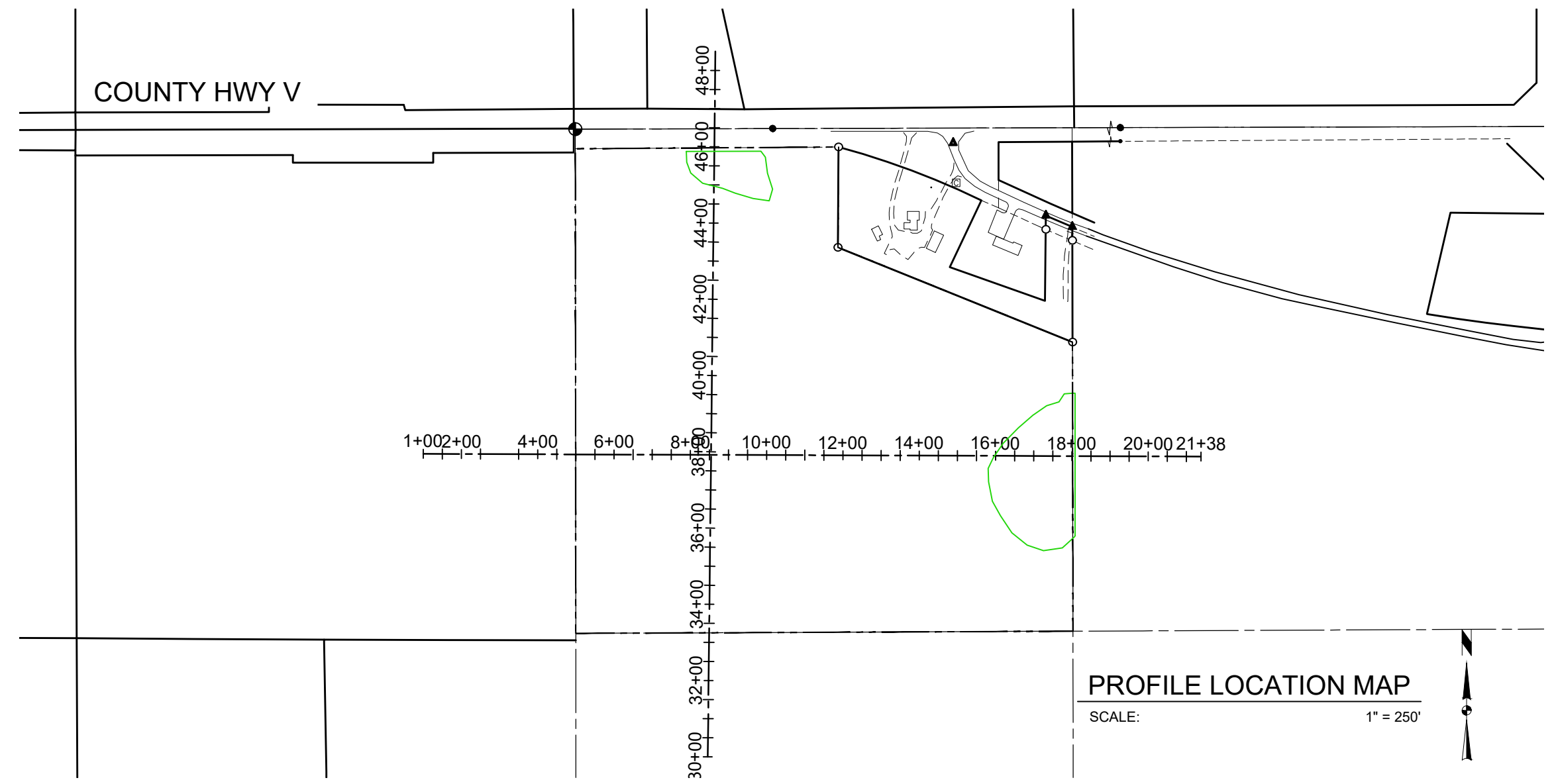
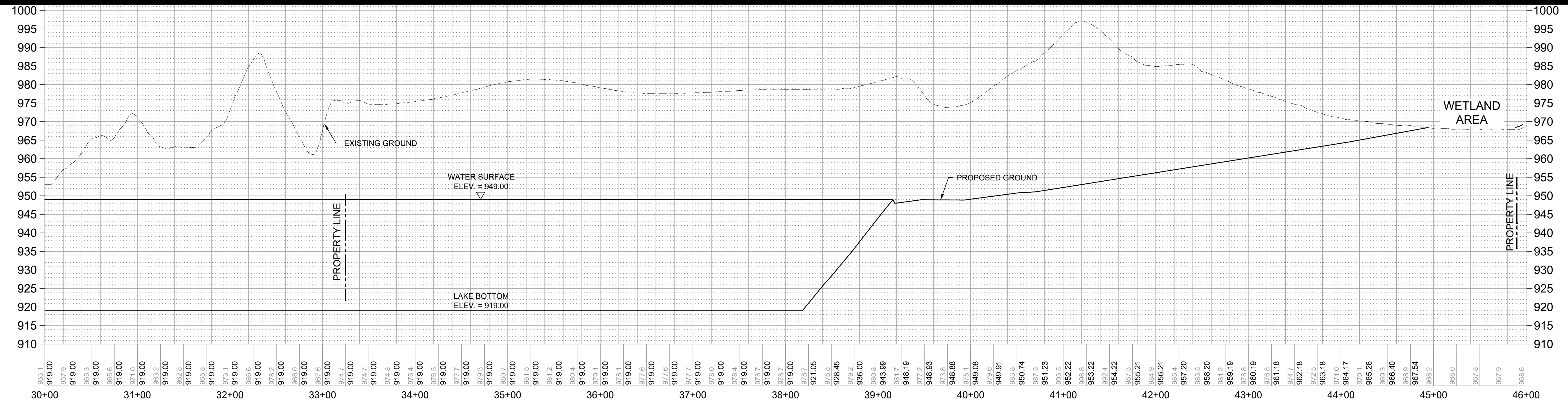
RECLAMATION PLAN

SNYDER & ASSOCIATES, INC. |

2727 S.W. SNYDER BLVD
ANKENY, IOWA 50023
515-984-2020 | www.snyder-associates.com



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MARK	REVISION	DATE	BY
Engineer: SJA	Checked By: SJA	Scale: 1" = VARIES	
Technician: MW	Date: SEPT 11, 2020	T-R-S: 9N 9E 22	
Project No: 119.1080.30			Sheet C 400

TOWN OF VIENNA, WISCONSIN

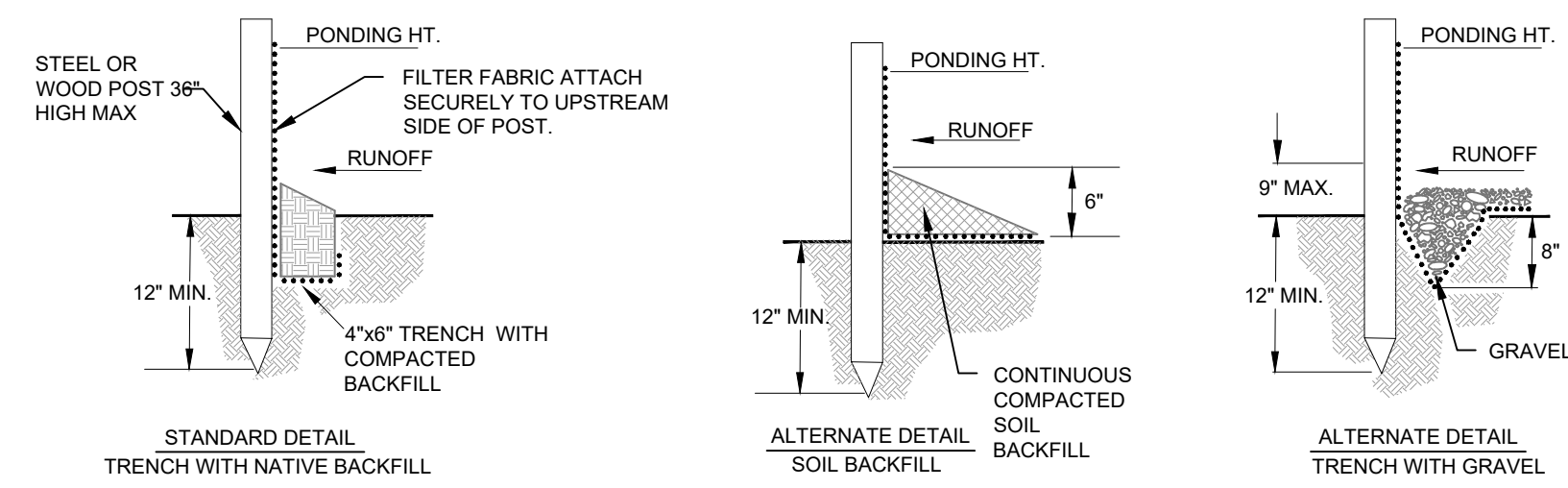
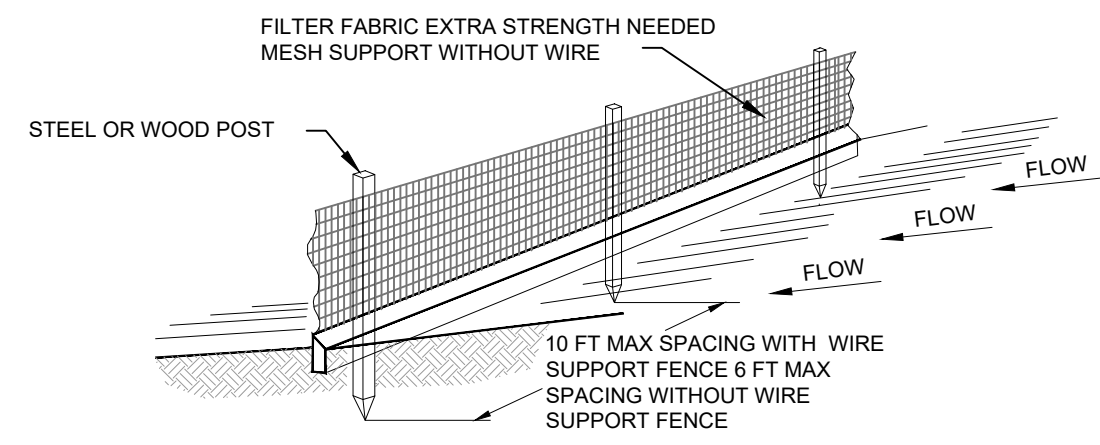
2727 S.W. SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | www.snyder-associates.com

KELLEY PIT ADDITION

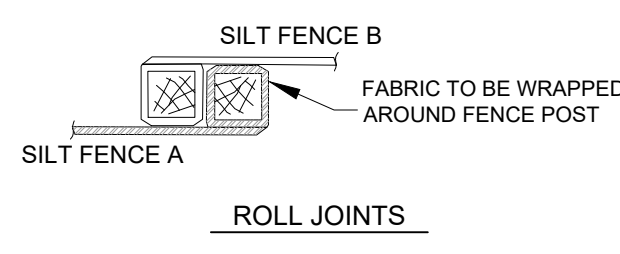
RECLAMATION PROFILES

SNYDER & ASSOCIATES, INC. I

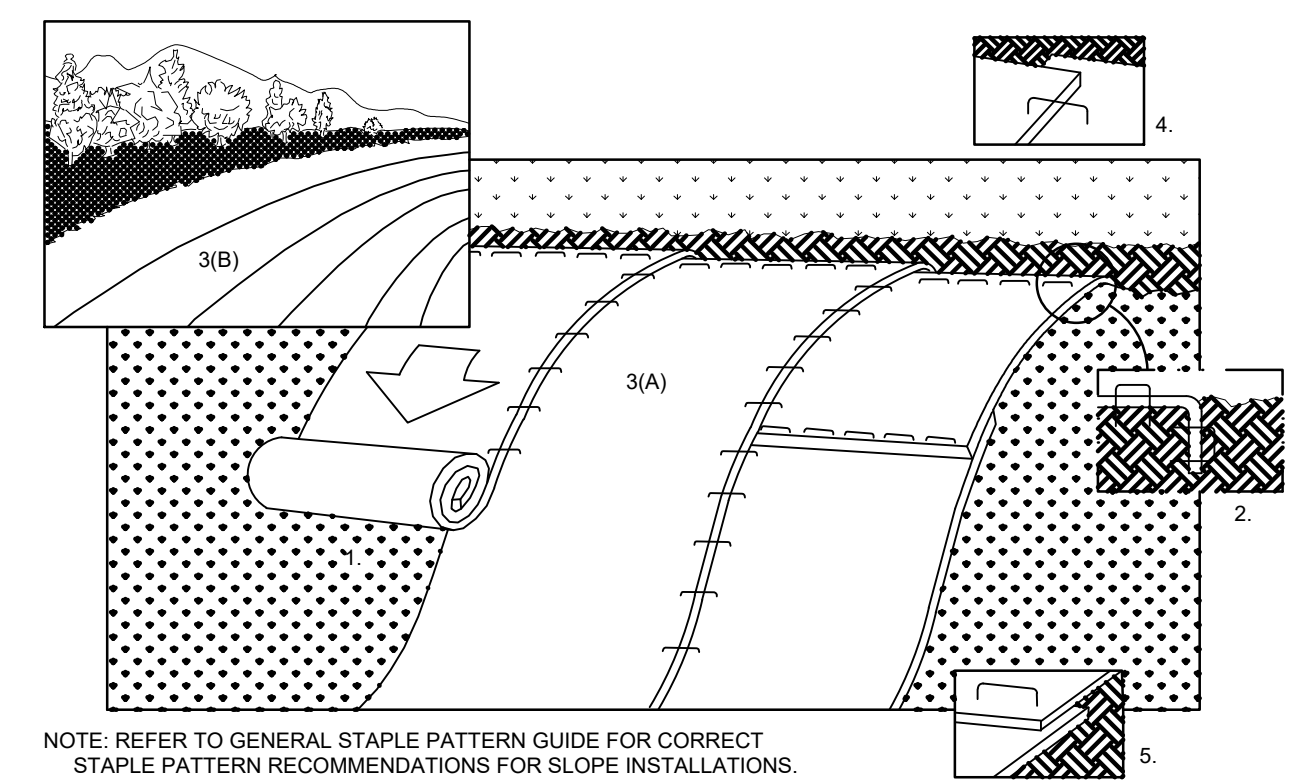




- NOTE:
1. INSPECT FENCE WEEKLY AND AFTER EACH RAIN EVENT OF 0.5 INCHES AND REPAIR IF REQUIRED. REMOVE SEDIMENT WHEN NECESSARY OR WHEN SEDIMENT REACHES 1/2 OF FENCE HEIGHT.
 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 4. SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1056.



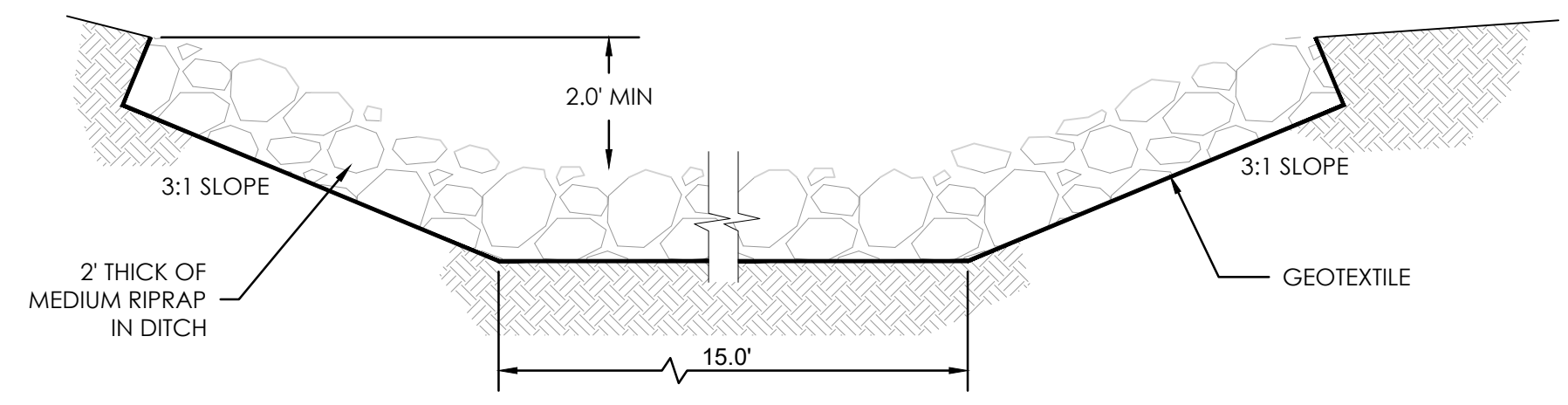
1 SILT FENCE DETAIL
SCALE: NTS



- NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
 6. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.
 7. EROSION MAT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD # 1052.

3 EROSION CONTROL MAT - SLOPE INSTALLATION
SCALE: NTS

5 NOT USED
SCALE: NTS

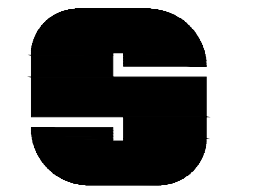


2 RIPRAP DITCH TYPICAL SECTION
SCALE: NTS

4 NOT USED
SCALE: NTS

6 NOT USED
SCALE: NTS

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MARK	REVISION	DATE	BY	Engineer: SJA	Checked By: SJA	Scale: 1" = NTS		
				Technician: MW	Date: SEPT 11, 2020	T-R-S: 9N 9E 22		
							Project No: 119.1080.30	Sheet C 500
KELLEY PIT ADDITION				TOWN OF VIENNA, WISCONSIN				
EROSION CONTROL DETAILS				SNYDER & ASSOCIATES, INC. 				
				SNYDER & ASSOCIATES				
							Project No: 119.1080.30	
							Sheet C 500	