February 17, 2018



Ms. Nancy Ryan Wisconsin Department of Natural Resources 2300 North Martin Luther King Jr. Drive Milwaukee, WI 53212

 RE: Soil Placement Approval Request for the Proposed BMO Tower Development Located at 778 North Water Street in Milwaukee, Wisconsin
 — DNR BRRTs # 02-41-579828; FEC Project No. 171204

Dear Ms. Ryan:

On behalf of Broadway Tierra Partners, LLC, *Friess Environmental Consulting, Inc. (FEC)* submits this letter to request that the Wisconsin Department of Natural Resources (DNR) grant a ch. NR 718.12 Wisconsin Administrative Code (WAC) approval for approximately 2,300-2,400 cubic yards (CY) of soil scheduled for excavation from the above-referenced property. The soils are proposed to be disposed of at the R&R excavating site ("the "Site") located near the intersection of Highway 60 and Highway I in the Town of Cedarburg.

This letter provides a description of the generator site history and re-development plans, presents a summary of characterization data obtained to date for the generator site, and provides our conclusions and recommendations regarding the management of the soils. This letter will also discuss the continued protectiveness of human health and the environment through management of these soils and the low hazard risk to remove and place the soils at the R&R Excavating Site.

#### R&R Excavating Site

The Site is located near the intersection of Highway 60 and Highway I in the Town of Cedarburg. The Site totals approximately 39.5-acres of which 11 acres had historically been quarried and subsequently filled as part of the quarry reclamation plan. The property is bordered by vacant agricultural land to the south and east, former quarries to the north and west, and Highway I farther to the east.

The Site meets the locational criteria outlined in ch. NR 718.12(1)(c) WAC. The soils placed at the R&R Excavating site have not been and will not be located within a floodplain; within 100 feet of any wetland or critical habitat area; within 300 feet of any navigable river, stream, lake, pond or flowage; or within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well. In addition, soils have not been placed and will not be placed within 3 feet of the groundwater table. Information related to the Site as it relates to the ch. NR 718.12 locational criteria has been previously provided to and approved by the DNR.

The soils proposed to be placed at the Site as part of this ch. NR 718.12 and/or LHE approval request will be placed at a depth of approximately 20 feet below the proposed finished grade and at a distance greater than 3 feet above the groundwater table at the Site. Based on the relatively insoluble and/or highly immobile nature of the impacts, the planned capping of the Site, and the increased distance from the groundwater table at the disposal site versus the generator site, we request an exemption to the locational criteria of ch. NR 718.12(1)(c)6 to allow placement of the contaminated soil at a depth greater than the depth of the original excavation from which it was removed.

Although it is not a condition of the approved reclamation plan, nor does the Site have groundwater quality exceedances, it is understood that the owner of the Site will accept placement of the Site on the DNR GIS registry following completion of the reclamation plan as part of the ch. NR 718.12 approval to accept soils at the Site. The GIS registry would prohibit construction of a potable well on the Site without prior DNR approval, document soil conditions on the Site, and implement a cap maintenance plan (CMP) for the Site. No development is planned as part of the reclamation.

#### Response Action (Generator) Site Description

The development project is located at 778 North Water Street in Milwaukee, Wisconsin. Several environmental studies have been conducted at the Site including Phase I and II Environmental Site Assessments and soil management sampling.

Based on a review of the Phase I ESA, the subject property was identified as a registered underground storage tank (UST) site. Two gasoline USTs were closed/filled with inert material on November 28, 1990 and December 16, 1991. The subject property was also historically occupied by Badger Auto Service Company Garage from 1935 to 1965. Additionally, a review of city directories and Sanborn Fire Insurance maps indicated that the subject property was historically utilized for printing operations and two 280-gallon gasoline tanks were buried in the alley between the subject property parcels and three gasoline tanks were located on the western side of the subject property. The historical use of the site was considered a possible recognized environmental conditions (PREC).

Sigma completed Phase II Environmental Site Assessment (ESA) and site investigation (SI) activities at the above referenced property (the "Site") between January and November, 2017, in order to assess potential environmental impacts associated with recognized environmental conditions identified in Sigma's Phase I ESA report completed for the Site in May 2017, and to characterize subsurface material for off-site disposal during earthwork activity associated with the construction of a new office building and parking garage. The results of Sigma's work identified Resource Conservation and Recovery Act (RCRA) metals in soil above actionable levels, as well as low-level detections of polycyclic aromatic hydrocarbons (PAHs), within the subsurface of the site. Low level VOCs were detected in isolated areas, but are not part of this soil disposal exemption. The soils will require soils management during earthwork.

On January 30, 2017, Sigma completed eight soil borings and five temporary wells within the executive garage area. Additionally, between April 13 and 14, 2017, Sigma completed eleven soil borings within the auto-banking area and lower basement level of the site. Soil borings within the executive garage and auto-banking areas were advanced to an approximate maximum depth of 8 to 12 feet below ground surface (bgs). The lower basement level sub-slab soil borings were completed with hand-held drilling equipment. Soil samples were collected continuously from the ground surface to the boring termination depth. Soil samples collected from the soil borings were field screened by visual and olfactory observations and by a calibrated photoionization detector (PID) to semi-qualitatively assess the presence of volatile organic compounds (VOCs). The PID field screening results were recorded on the soil boring logs.

Based on the results of the Phase II ESA and the proposed development plans, Sigma conducted a site investigation consisting of eighteen additional soil probes. A total of six groundwater samples were collected from 5 temporary wells. In addition, two samples were collected and submitted for water leach testing. The results of the SI were provided in their Site investigation Report & Remedial Action Plan for the BMO Downtown Campus Parking Structure dated January 4, 2018. The sample results, probe logs and lab reports were provided to the DNR in Sigma's SI/RAP dated January 4, 2018.

Thirty seven soil probes and five groundwater monitoring wells have been conducted on the site. One to three soil samples from each soil boring location (56 discrete soil samples total) were submitted for laboratory analysis of VOCs, PAHs, RCRA metals or lead, PCBs, and/or ethylene glycol. The soil sampling conducted for the environmental assessments has sufficiently characterized the soils to be removed for disposal. In addition, a soil sample was collected for analysis for each 100 cubic yards of contaminated soil for the first 600 yards and an additional sample was collected for analysis for each additional 300 cubic yards to be removed thus meeting the requirements of NR 718.12 (e), WAC.

The soil proposed for placement is excess soil generated during excavation for building construction as part of redevelopment. The development will involve construction of the new BMO Tower. Reworked fill is present on the site. Information regarding the development plans is included with this request.

Based on the results of the recent subsurface explorations, there are no significant sources of impact to the soil. Although the intent is to minimize any off-site transport, approximately 2,300-2,400 CY of soil are anticipated to require off-site management. The fill soils can be managed with a ch. NR 718.12 approval for placement at the R&R Excavating site. Based on a review of the analytical data from the generator site, the concentrations of this soil would be less than those soils placed at the R&R Excavating Site under previous disposal approvals.

#### **Development Plans**

The redevelopment of the site will consist of a new 25-story retail and office building referred to as the BMO Tower. The redevelopment (building, foundations, utilities, landscaping) will cover nearly all 35,765 square feet and the existing BMO Tower office building. The new construction will include lower level storage and building service rooms, a ground level (1st and 2nd floors) building lobby and limited retail space, and eight levels of above-ground parking (floors 3 through 10). The remaining fourteen floors (11 through 25) will be dedicated office space. Redevelopment plans for the proposed BMO Tower are attached. The current structure is being demolished. Construction of the new structure is anticipated to begin in February 2018 and be completed by January 2019. The site plan for the proposed development is attached.

It is anticipated that approximately 2,300-2,400 CY of material will be generated during excavation for basements, footings/foundations, utility construction and subgrade preparation/ grading for the floor slabs, parking lots, drive areas and sidewalks will be required. These soils will be placed of at the R&R Excavating site.

Sigma will monitor the earthmoving activities for unanticipated environmental conditions (such as a buried tank or barrel, strong unidentifiable odors, discolored soil, or volatile vapors) and to manage the materials appropriately, if necessary.

#### **Conclusions**

Approximately 2,300-2,400 CY of soils would originate from the generator site. The soils contain impacts that are likely attributable to the fill soils. The soils to be removed are associated with footing, foundation, and utility excavation related to the construction of the new BMO Tower. The soils cannot be transported off-site as clean fill. We request that the DNR grant the ch. NR 718.12 exemption approval, as well as an exemption to ch. NR 718.12(1) (c) 6, for the disposal of soil from the proposed development at the R&R Excavating Site.

We appreciate your assistance with this request. If you have any questions or comments regarding this submittal, please contact us at (414) 228-9815.

Respectfully, *Friess Environmental Consulting, Inc.* 

Inutre 1

Trenton J. Ott Project Manager

Ribert W. Frieseke

Richard W. Frieseke, P.E. President 171204BMO

#### **Project Contacts**

#### Disposal Site

R&R Excavating Site Parcel # 03-022-04-000 County Road I Cedarburg, WI 53012 SE ¼ of the NE ¼, Section 22, Township 10 N, Range 21 E WTM Coordinates: 683133, 318082; 43.317884 Latitude, -87.988200 Longitude

Charmoli Holdings, LLC Mr. Dick and Maxine Charmoli 320 Douglas Lane Cedarburg, WI 53012 (262) 377-5736

Ponfil Trust 224 Aspen Drive Grafton, WI 53024 (262) 238-0300

Friess Environmental Consulting, Inc. Mr. Rick Frieseke 6635 North Sidney Place Milwaukee, WI 53209 (414) 228-9815

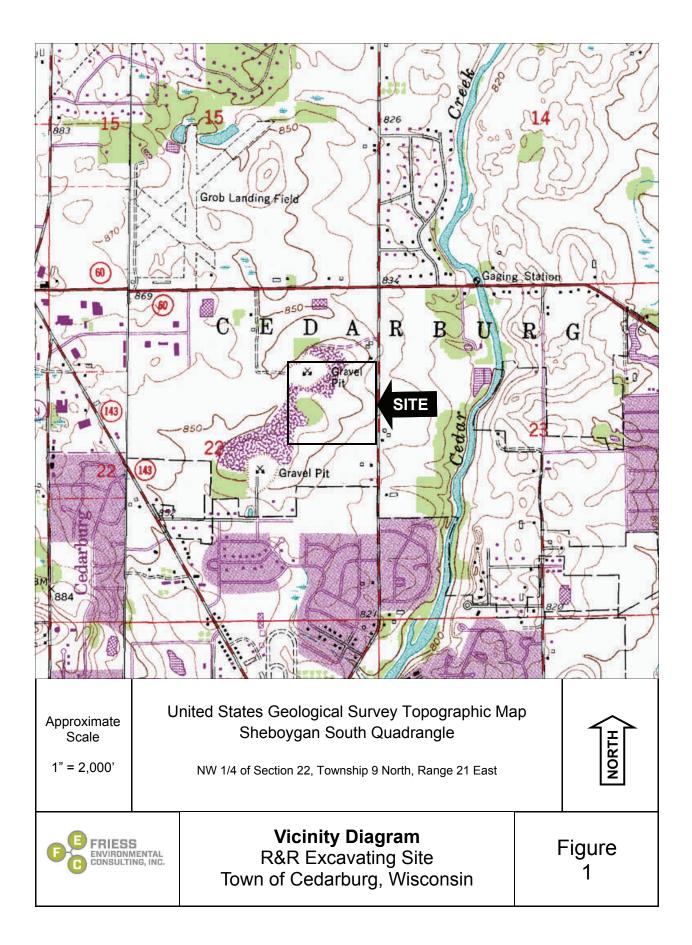
#### Generator Site

BMO Tower 778 North Water Street Milwaukee, Wisconsin 53202 Telephone: (414) 443-0700 Southeast ¼ of the Northeast ¼ Section 29 Township 7 North, Range 22 East WTM Coordinates: 690217, 285020; 43.24592 Latitude, -87.95452 Longitude

Broadway Tierra Partners, LLC c/o Irgens Development 833 Michigan Street, Suite 400 Milwaukee, WI 53202 Telephone: (414) 443-0700 Contact: Tim Gasperetti, P.E.

#### **Disposal Site Information**

- Site Diagrams
   Reclamation Plan





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## Site Information:

Total Property Area = 39.45 acres (100%) Quarry Area = 11.01 acres (27.9%)

Current Zoning = A-1 (Agricultural District) R-2 (Single Family Residential District)

# Site Fill Statistics:

Proposed 12" of Top Soil = 17,750 cubic yards Proposed 24" Soil Cap = 35,500 cubic yards Proposed General Fill = 536,510 cubic yards Total Site Fill Volume = 589,760 cubic yards

## PROPERTY DESCRIPTION :

The Southeast 1/4 of the Northeast 1/4 of Section 22, Town 10 North, Range 21 East, in the Town of Cedarburg, Ozaukee County, Wisconsin, inclusive of Certified Survey Map No. 386, as recorded in Vol. 2, Pages 92–93, as Document No. 235606 at the Ozaukee County Register of Deeds.

Excepting therefrom the East 33.0 feet, previously conveyed or dedicated for highway purposes.

### OWNER :

Richard Charmoli 320 Douglas Lane Cedarburg, WI 53012

OPERATOR :

R.&R. Excavating & Bulldozing, Inc. Richard Charmoli, President 320 Douglas Lane Cedarburg, WI 53012

## Site History :

This site was originally opened as a County gravel pit in the late 1940's to early 1950's. R.&R. Excavating & Bulldozing, Inc. took over ownership and site operations in the early 1960's, and continued gravel mining operations until Jan. 2012. Limestone mining operations at this site took place from 1990 through 2011 in conjunction with the gravel mining. In January 2012, all mining operations at this site ceased. Heavy filling operations commenced in 2005 and are on-going.

# Post-mining Land Use :

The ultimate land use for the Quarry located on this property shall be in accordance with it's current zoning which is A-1 (Agricultural District) as referenced on this cover sheet. Filling will continue to occur at the site until the final reclamation grades are attained with the final layer being of a topsoil material suitable to support the desired function of the land based on it's zoning. The final grading plan will be designed to match the existing topography and drainage of the surrounding lands.

# **Biological Information :**

The lands adjacent to the reclamation site consist of a hardwood forest on the Northwest corner and agricultural lands planted with soy surrounding the remainder of the site. It is assumed that deer, birds, and various other wildlife utilize said lands for feeding, habitat cover, and travel between green space corridors.

# **Reclamation Measures :**

See Reclamation Measures on sheet 8 of 8

## F.E.M.A. Note

1. The subject property lies within Zone "X" areas determined to be outside the 0.2% annual chance Floodplain as determined by Flood Insurance Rate Map Community Panel No. 55089C 0178 F, Map Revised: December 4, 2007.

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## OCATION MAP





## SOILS MAP

Per the United States Department of Agric Conservation Service report Deted Septem **ulture Sol** nber, 1970

## SOIL TYPES :

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### **60**" TION PLAN

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## Index of Sheets

#### Sheet 6-7 S 4 З Ν **\_\_** COVER SITE INTERIM RECLAMATION GRADING PLAN GEOLOGICAL CROSS SECTIONS FINAL RECLAMATION GRADING PLAN EXISTING DRAINAGE PATTERNS SURVEY & QUARRY LIMITS Description

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RECLAMATION MEASURES & EROSION CONTROL DETAILS

### Revision Date: March 28, Revision Plan Date: July 10, 2012 Date: April 5, 2013 2013

# Benchmark Note :

1. Main Benchmark is the Section corner monument at the SE. corner of the NE.  $Y_4$  of Section 22, Town 10 North, Range 21 East. Top of monument elevation = 833.26.

CERTIFICATION OF RECLAMATION PLAN

I hereby certify, as duly authorized representative or agent, that I, <u>Richard Charmoli</u> will comply with the provisions of this reclamation plan as well as the statewide nonmetallic mining reclamation standards established in ss. NR 135.05 through NR 135.15, Wisconsin Administrative Code.

**Richard Cha** moli, Ow

Dated:

SCONS HENSEL HE-20831 REENDALE, MAL EV



NSE# LS-3350-12

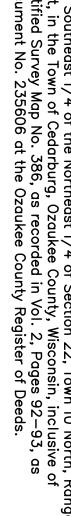
NORTH SHORE ENGINEERING, INC. Consulting Engineers & Land Surveyors 11433 N. Port Washington Rd., Mequon, Wisconsin, 53092 (262) 241-9400 • FAX: (262) 241-5337 www.northshoreengineering.net

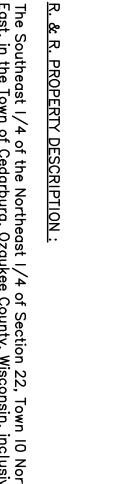


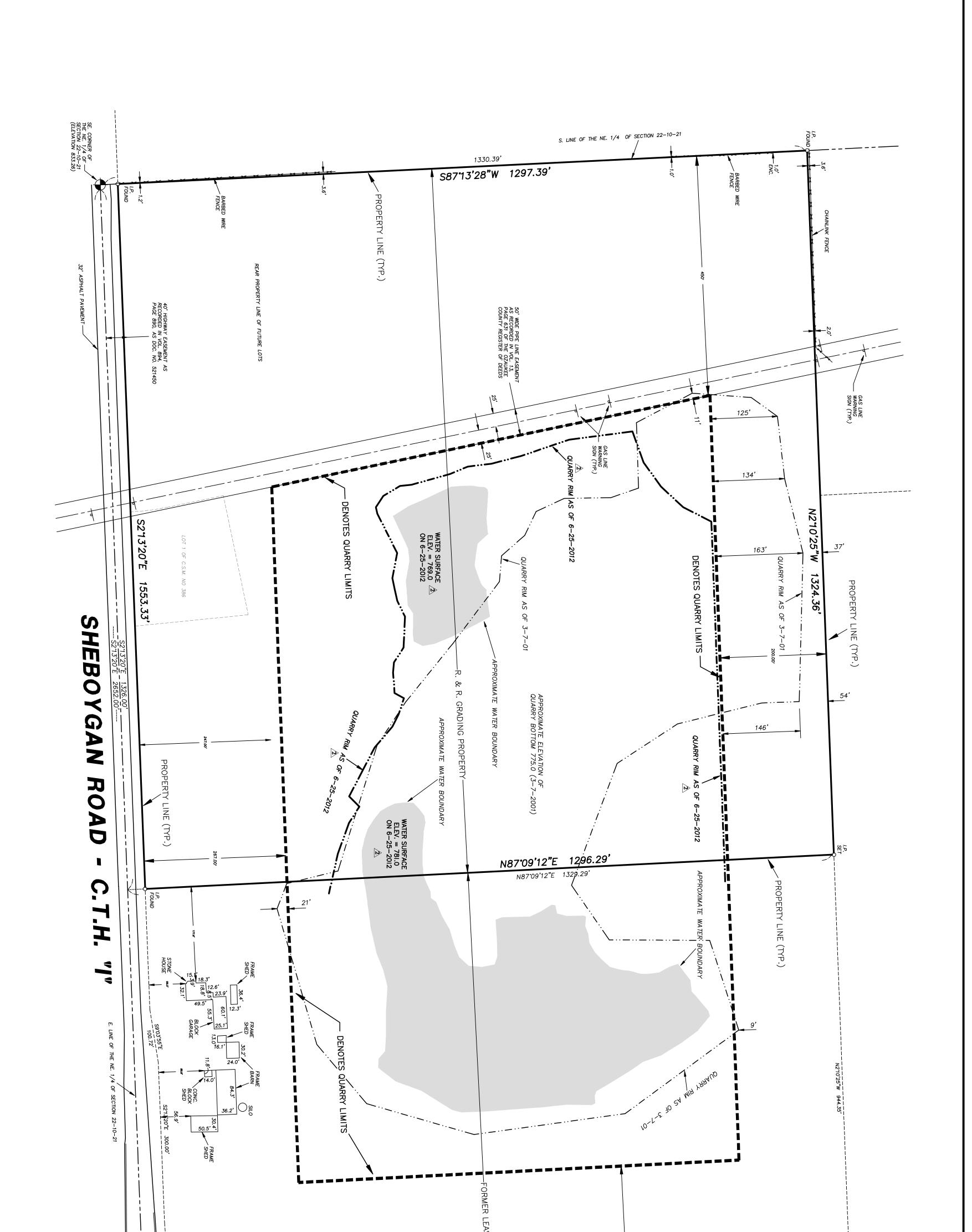
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Excepting therefrom the East 33.0 feet, previously conveyed or dedicated for highway purposes.









James G. Schneider Surveyor – S–2127

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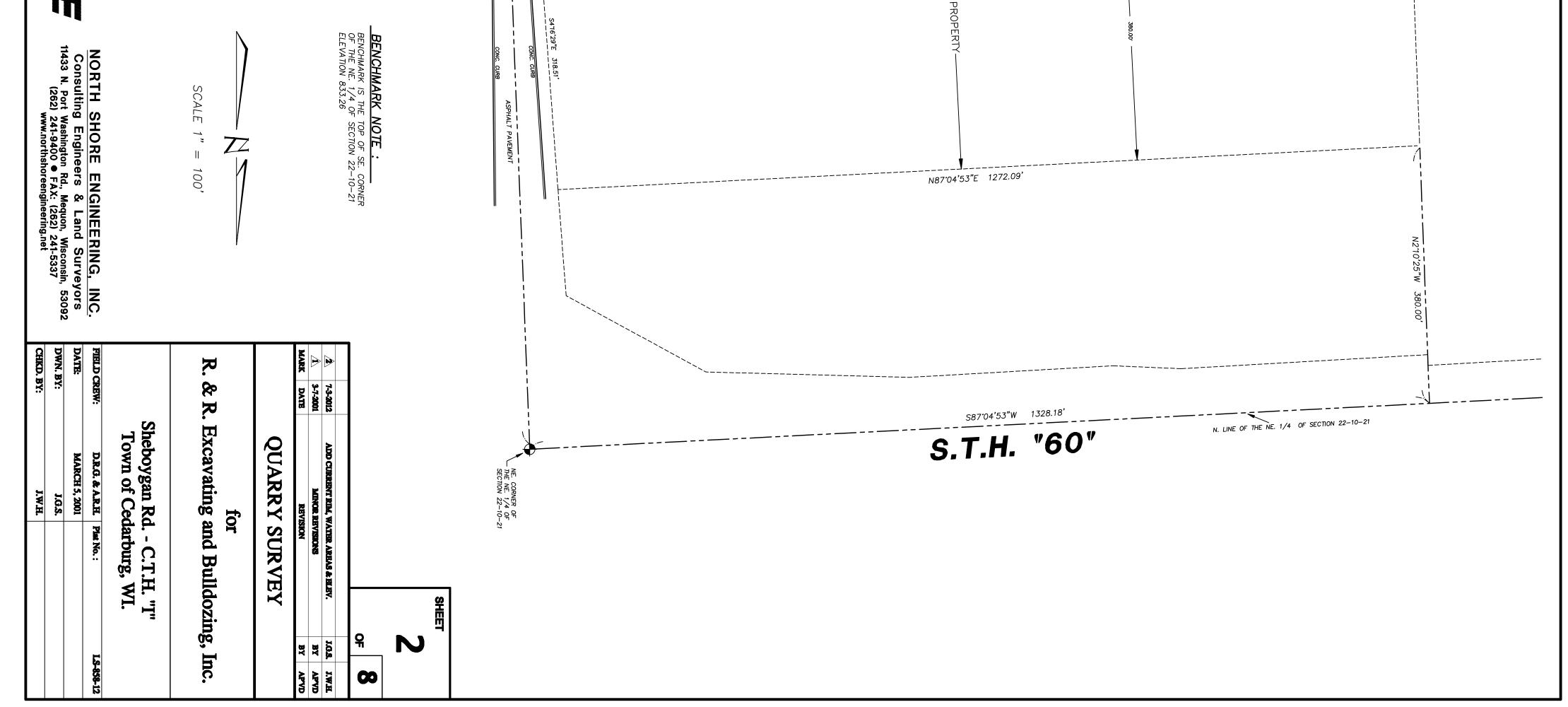
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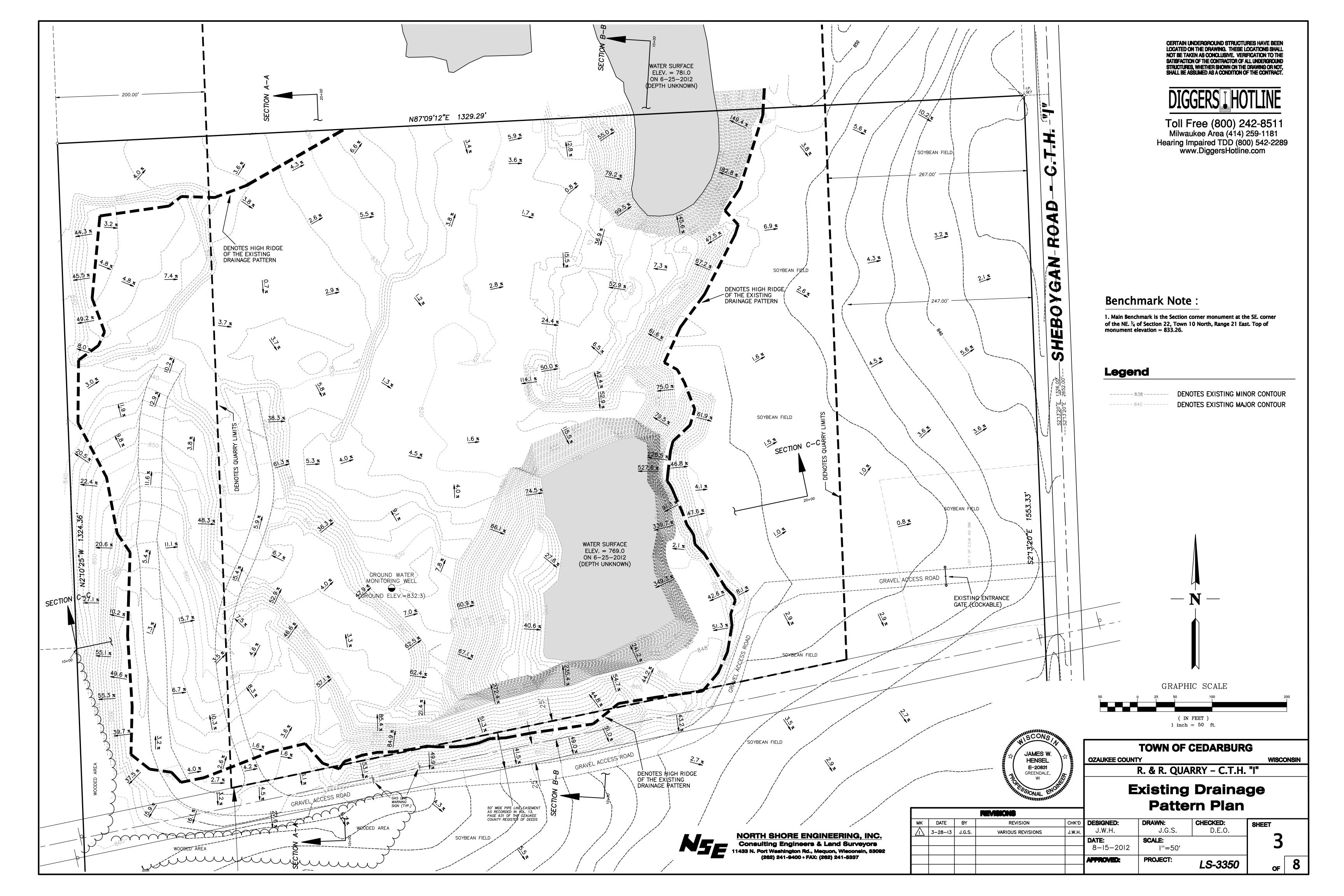
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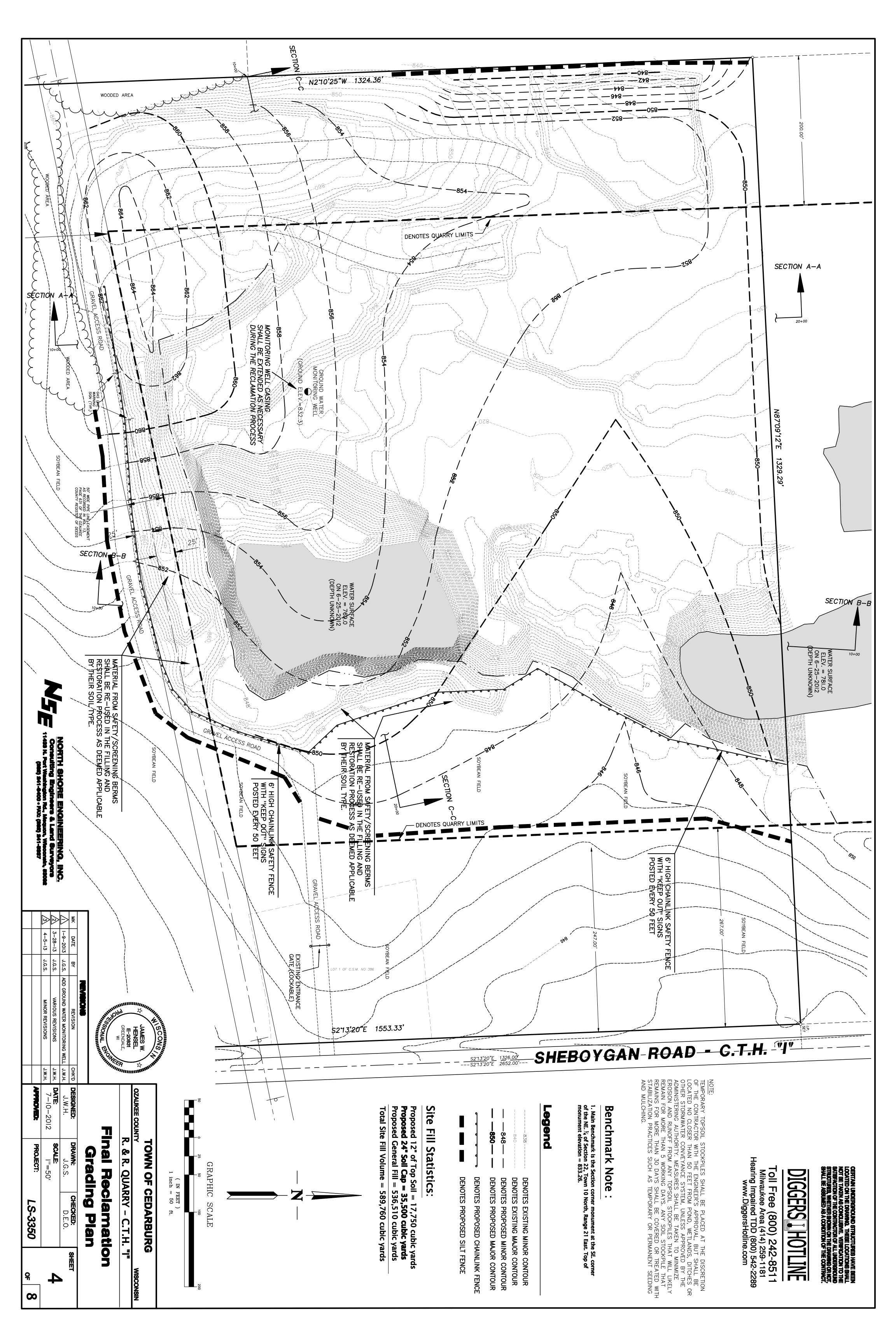
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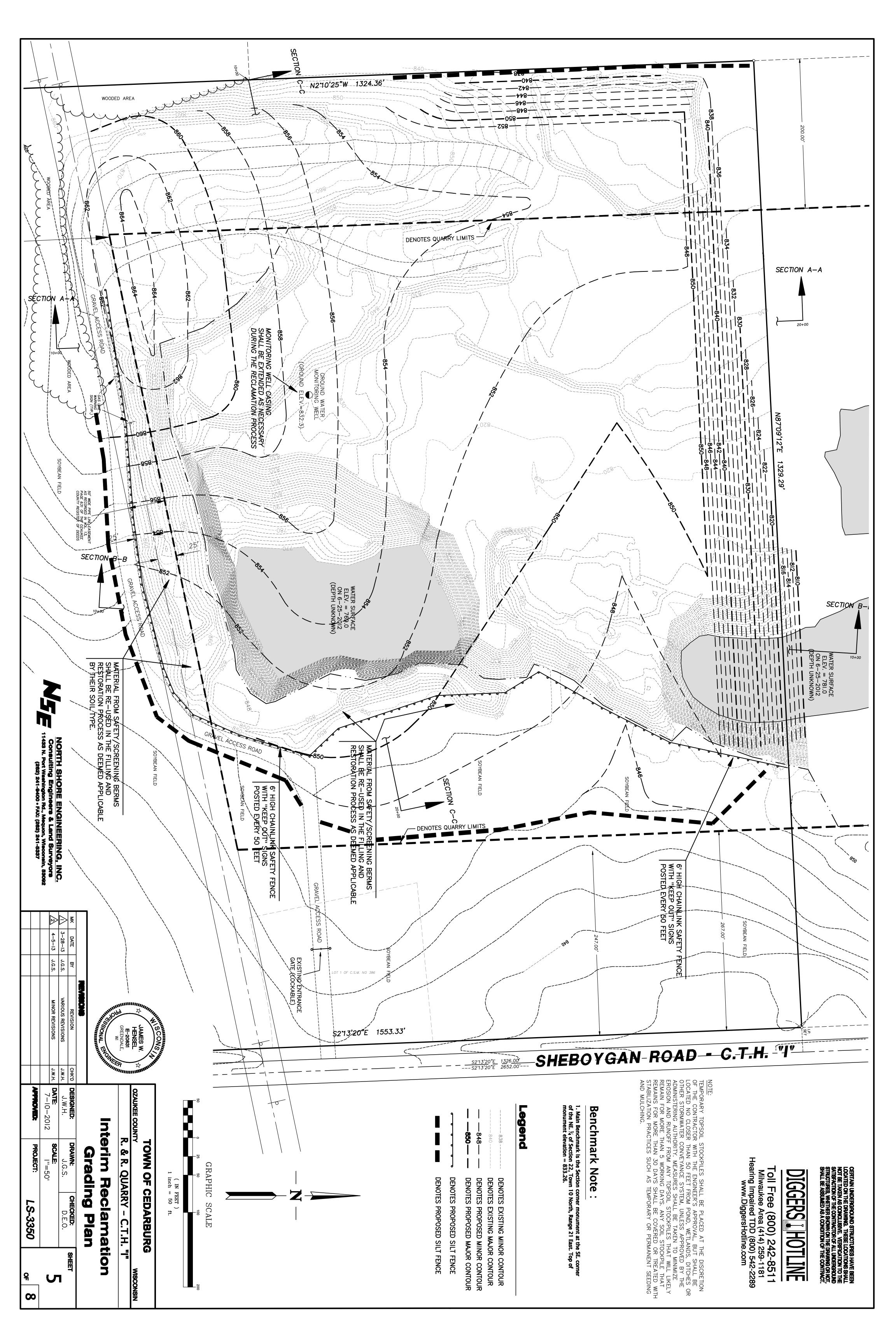
I have surveyed the above described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all visible structures thereon, boundary fences, apparent easements, roadways, and visible encroachments, if any. SURVEY CERTIFICATE

FORMER LEASE PROPERTY DESCRIPTION :

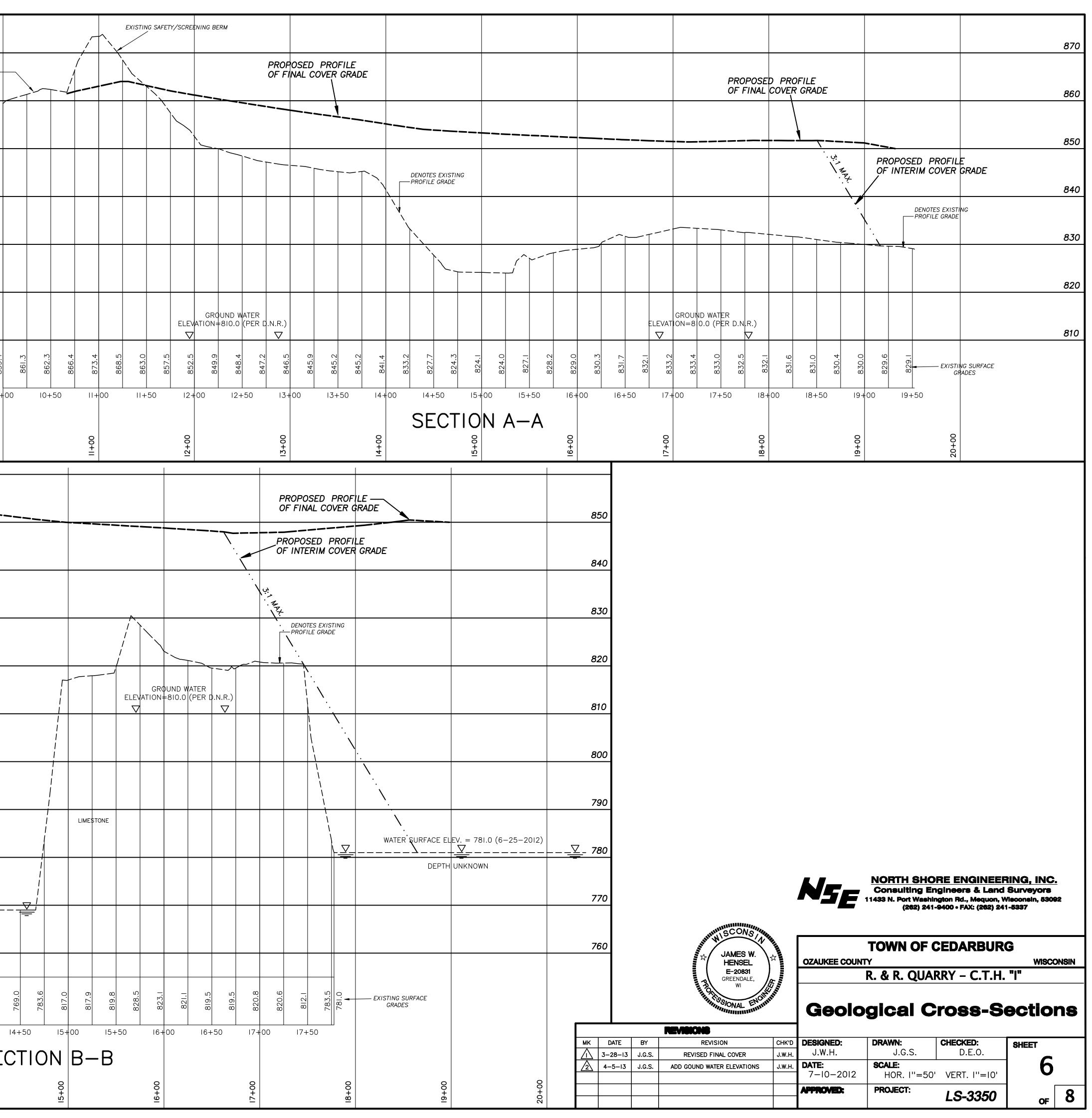








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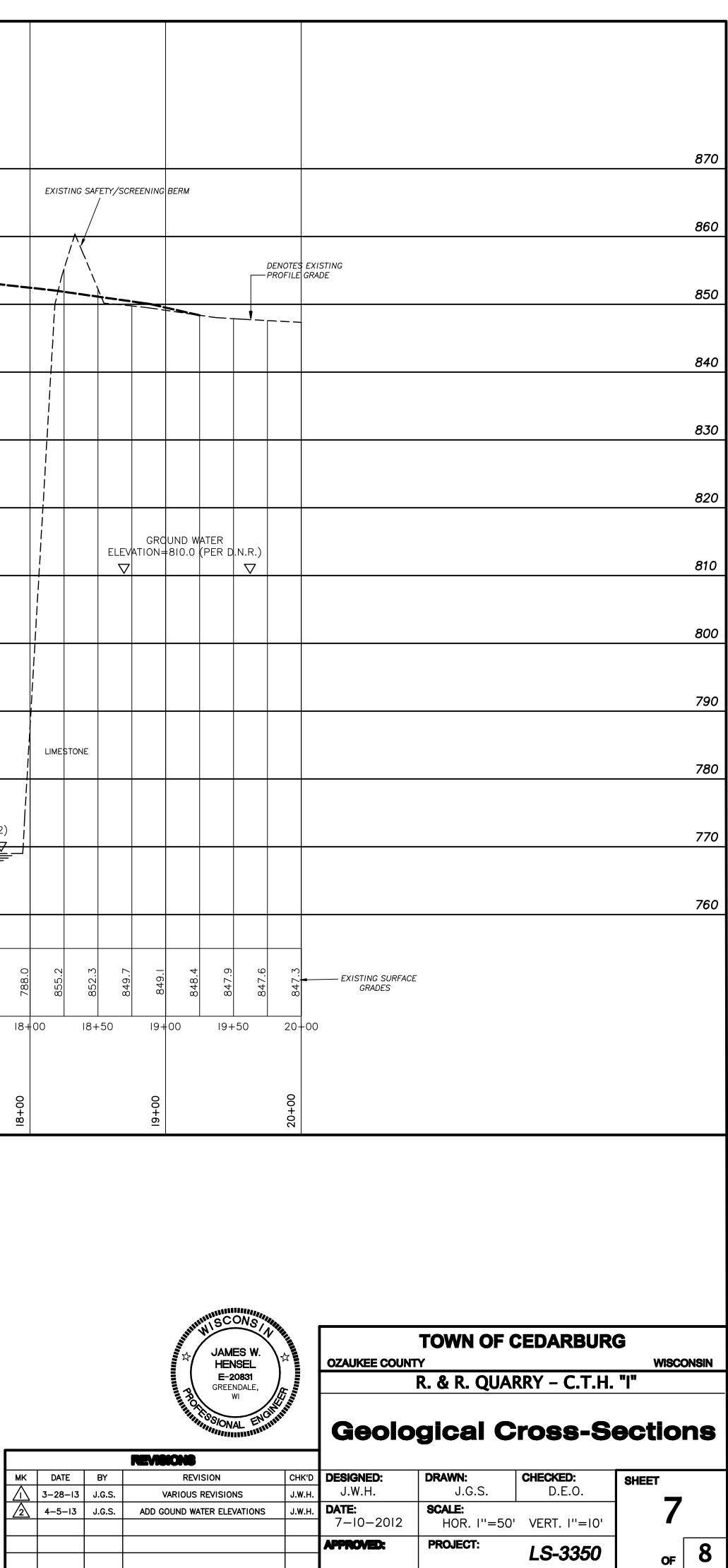


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# **A. GENERAL NOTES**

 All required reclamation work operations shall conform to the requirements of the following.

 a. Town of Cedarburg and Ozaukee County Codes and Ordinances.
 b. Wisconsin Administrative Code - NR135
 c. Wisconsin D.O.T. 2012 Standard Specifications for Highway and Structure Construction
 d. Wisconsin D.N.R. Technical Standard Specifications for Prighway and Structure Construction

 The Owner and /or Operator shall be responsible for permit acquisitions and related costs thereto.
 The Contractor shall install and maintain the following temporary B.M.P.'s in accordance with current Technical Standards. Wisconsin D.N.R.

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Technical Standards.
Silf encing per WDNR Tech. Sci. 1056
Gravel access neud shall serve as tracking pad

Seecling per WDNR Tech. Sci. 1056 for Construction Sites

Gravel access neud shall serve as tracking pad

Seccinding an embankment work operations of fill materials shall be in accordance with Section 207 of the State D.O.T. Specifications.
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Soli cap shall be placed across the grading area, directly below the top soil layer to a minimum depth of 24-inches and shall consist of soils comparable or in like kind with Hochheim Leam, as referenced in the United States Department of Agriculture Soil Conservation Savice report Dated September, 1970.
Re-vegetation shall be in accordance with Section 525, 627, and 630 of Wisconsin DOT 2012 Standard Specifications for Highway and Structure Construction
Soft water testing was performed on 6-7-2012. Please reference reports dated 6-8-2012 and 6-12-2012, prepared by Sintegy Environmental Lab, Inc. Gse report included with reclamation plan)
Som water runoff shall be maintained and directed to the Southeast complished through evaporation and infiltration. At such time that the filling operation surface water mitigation will be accessary, a set of plans, designed by alicensed Engineer, shall be provided to Ozaukee County Land and Water Management & the Wisconsin Department of Natural Resources for their approval.

# **B. RECLAMATION MEASURES**

The reclamation measures and plan shall conform to the requirements of NR 135.19.
 Proposed earthwork and reclamation shall be as follows and as shown on Plan Sheets 4 and 5 of the Plans.

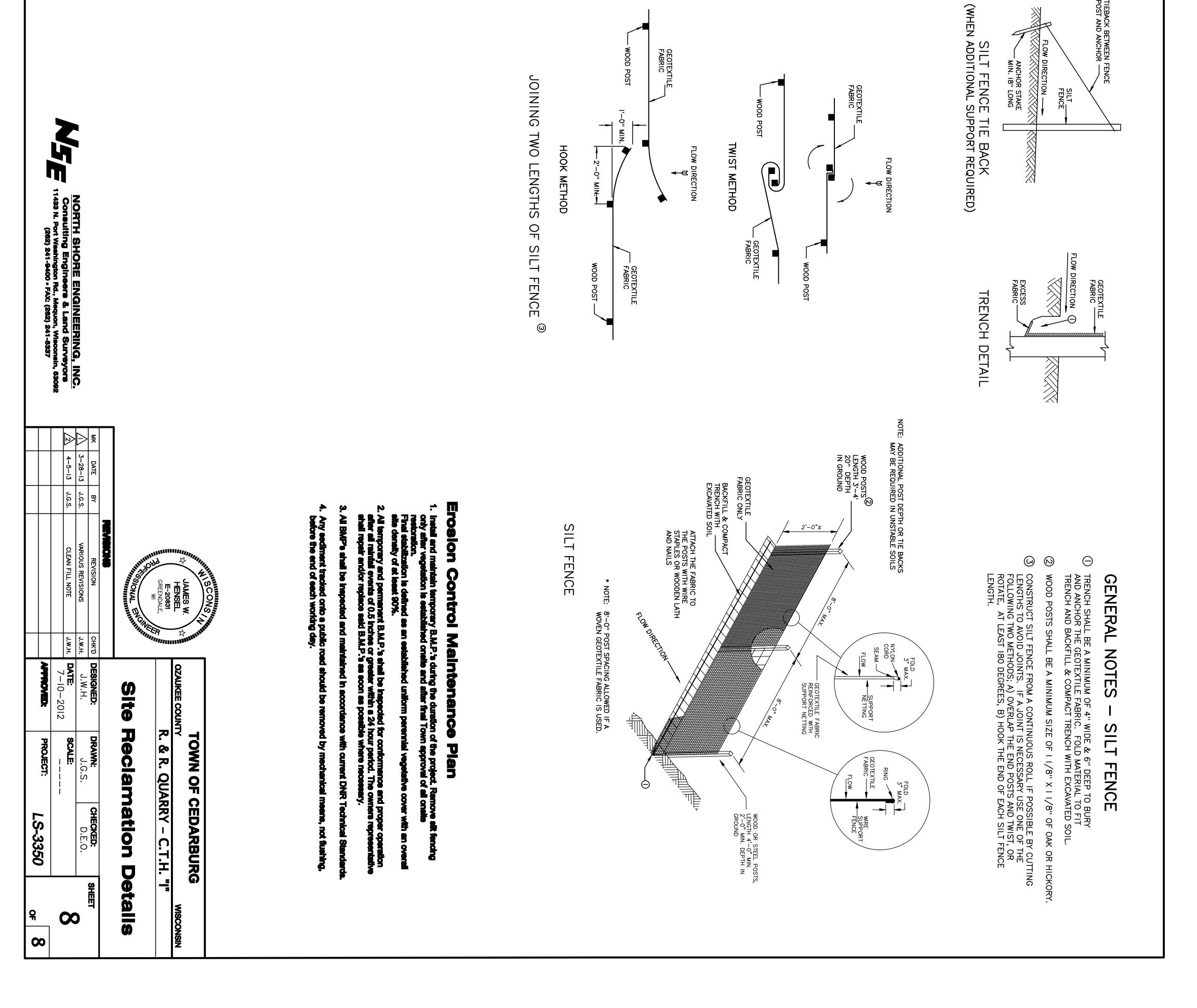
 a. High walls will be eliminated with the proposed earthwork.
 b. Finished slope angles generally vary from 1% to 2%, with slopes of drainage swales at 2 1/2 % to 4%. The interim reclamation area. These 3:1 slopes are required to blend the final grading contours with existing post-mining lands.
 c. Existing safety/screening berms shall be used as part of the fill for this reclamation plan at such point in the filling process that they are no longer needed for safety measures.
 d. Prior to the placement of topsoil, all graded surfaces will be scarified for effective topsoil adhesion.
 e. Rough and final grading will be completed such that ponding of water will be eliminated on the reclamated surface.
 f. All topsoil will be placed to match the proposed finished grades and contours of the grading plans.
 g. Reference: February 16, 2005 Memorandum as prepared by Environmental & Development Solutions and as approved by the Town of Cedarburg and R & R Excavating & Bulldozing representative. The Memorandum of Understanding outlines the protocol for filling operations at the site. (See memorandum included with reclamation plan)

h. Slopes shall not exceed 3:1 for this reclamation plan

Topsoil construction shall be as follows.
 Erosion and sedimentation Best Management Practices (B.M.P.) shall be installed and constructed prior to topsoil storage piles shall receive erosion control protection measures as required. Additional protection shall include re-vegetation seeding and mulcining. Seeding shall be restricted to natural pratile seed matures.
 Topsoil will be redistributed onto the graded site in accordance with Section 625 of the D.O.T. Standard Specifications.
 All graded areas shall be completed as follows.
 The re-vegetation plan shall be the stabilized as soon as possible after site grading operations.
 Seed materials shall be nervey grade and fee of contamination by weed species.
 Seed materials shall be as follows.
 Seed materials of the D.O.T. Standard in side of contamination by weed species.
 Seed Mixture #2 & #3 per: A Guide to Developing Reclamation Plans for Nonmetallic Mining Sites in Wisconsin Appendix C for wildlife and passive recommendations based on site conditions.
 Seed Mixture #2 & #3 per: A Guide to Developing Reclamation Plans for Nonmetallic Mining Sites in Wisconsin Appendix C for subplication, wildlife, grazing, and passive reclamation. Seed rate application shall be as recommended in said treference or supplication shall take passication shall be as to conditions.
 Seed Mixture #2 & #3 per: A Guide to Developing Reclamation Plans for Nonmetallic Mining Sites in Wisconsin Appendix C for subplication shall take place bareement during the growing season pending subble soil conditions. Seed rate application shall as place bareemeng up in an any prime during the growing season pending subble soil conditions.
 For the 31 slopes in the interim reclamation grading hydroseding macherial or suppliers recommendations and is and conform to the requirements of section 628 of the D.O.T. Sandard for said sudard for said sundard for sa

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e following erosion control plan shall be implemented as part of the reclamation plan. a. After topsoil removal and stock piling, each area/stockpile shall have a perimeter silt fence installation with appropriate temporary seed mixture application. b. Silt fencing shall be installed as shown on Sheets 3 and 4 of the Plans and at such time that the filling operations have raised the grade enough to require the need for runoff protection. c. Seeding and mulching operations shall be completed as soon as possible after grading operations. d. The reclamation site shall be monitored, inspected, and maintained until vegetative cover is fully established.



LAND AND WATER MANAGEMENT	PERMIT # <u>NMMP0116</u>
O ZAUKEE COUNTY	THIS CERTIFIES THAT A
NON-METALLIC	<b>RECLAMATION PERMIT</b>
	Has Been Issued To:
Owner: R&REXCAV	ATING & BULLDOZING, INC.
Non-Metallic Mining Operator:	SAME
Site Location: WEST SIDE	OF HWY I (SHEBOYGAN ROAD
Legal Description:	
Identification Number <u>03-022-04-000.00</u>	Township <u>10</u> N-Range <u>21</u> E, Town of <u>CEDARBURG</u> ; Parcel Date of Issue <u>JUNE 28, 2013</u> Canitation and Health Specialist)
Any changes of planned project or change in ownersh Management or this permit may be revoked.	ip must be reported to the Ozaukee County Department of Land and Water
121 W. MAIN STREET	REMISES IN PLAIN VIEW F, P.O. BOX 994, PORT WASHINGTON, WI 53074-0994 : (262) 238-8313 Fax: (262) 284-8367 Metro Fax: (262) 238-8367