



April 28, 2014

Mr. Dan Everson  
Assistant Zoning Administrator  
Dane County Planning & Development  
City County Building  
210 Martin Luther King Blvd., Room 116  
Madison, Wisconsin 53703

Dear Dan:

In my response to your request for more information on the two Mazomanie sites, I would like to submit the following information:

- 1.) Post Mining Land Use. The post mining land use as proposed in the reclamation plan will be a combination of agricultural (pasture, row crops, oats, alfalfa, and water features). These will be developed in the course of the mineral extraction operations. These water features would vary due to gradation of materials removed below water level. We are anticipating that up to 50% of the site has the potential to be restored as a water feature. Our plan shows a 23.9-acre water feature on the southeast side of the plan, and 26.3-acres on the northwest will be used for row crops or pasture.
- 2.) National Flood Insurance Map. The map legend describes the special flood hazard area (SFHA) subject to inundation by the 1% annual chance of flood. The highlighted areas on the color map that Dane County provided shows the areas that are capable of strong floodwaters during a flood incident. The areas of the Beuthin/Wipperfurth's pits are classified as Zone A with no base flood elevations determined. The proposed activities of the mineral extraction operations will continuously improve and enlarge the water storage capacity of the area, which will provide an additional protection to the local community. This area is not identified as part of the flood plain.
- 3.) Contours will be redrawn to 4-foot contours as all previous plans submitted to Dane County in the past.

When land conservation reviews the ECIP and determines that, something other than the simplified is necessary I will make the changes.

Please contact me with any additional questions or concerns. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Timothy Geoghegan", written in a cursive style.

Timothy Geoghegan



P.O. Box 277 Waunakee, WI 53597-0277 Phone 608-849-4162 Fax 608-849-5062

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## **Reclamation Plan Beuthin and Wipperfurth Properties**

**Intro:** The Beuthin and Wipperfurth properties are adjoining parcels of land that are non-conforming mineral extraction sites. These sites were used to supply sand and gravel to DOT, and private projects since 1919 in the case of the Wipperfurth property, and the early 1960's for the Beuthin property. Both of these sites contain large quantities of very high-grade sand and gravel. To this point, neither site has had a reclamation plan.

Yahara Materials, Inc. has leased both of these properties and is planning to operate both of these sites in conjunction with our Halfway Prairie site, which is adjacent to these properties. All operations and reclamation would be coordinated with all three sites.

**Location:** Both sites are located in Section 10, Town 8 North, Range 6 East, in Mazomanie Township, within Dane County, Wisconsin.

**Ownership:** Frederick and Virginia Beuthin  
10129 Mathewson Road  
Mazomanie, WI 53560

**Ownership:** Richard and Barbara Wipperfurth  
10026 Highway 19  
Mazomanie, WI 53560

**Operator:** Yahara Materials, Inc.  
P.O. Box 277  
Waunakee, WI 53597

**Existing Site Plan:** Both the Beuthin and Wipperfurth properties have existing gravel pits that have been worked over the years to supply aggregate for projects in the area. The balance of both properties is agricultural land and wooded areas.

The adjacent woods and agricultural lands support native wildlife such as coyotes, white-tailed deer, raccoons, fox, opossums, skunks, various birds, and other wildlife commonly found in Southwestern Wisconsin. The native plant life in the adjacent woods is typical of the woodland areas of Southern Wisconsin. The surrounding agricultural fields are annually rotated between soybeans, wheat, corn, oats and alfalfa.

**Reclamation  
Measures:**

Due to the nature of these deposits, reclamation will be an ongoing process. The first phase in integration of these three sites will be to remove the berms and stock piled strippings between the properties. We will use this material to reclaim portions of the Wipperfurth property adjoining Halfway Prairie Creek. When completed, the reclaimed area will be permanently seeded down with grass in accordance with our seeding plan.

Further, reclamation measure will follow this pattern of reclaiming previously worked areas as new areas are opened up. Much of the sand and gravel in this deposit is underwater, as this material is removed a lake will be created and final restoration of the site will include the water features created by excavation below water.

All slopes will be graded to a 3:1 slope ratio as specified in NR135. Final restoration will create a landscape of water features and agricultural land.

**1. Grading:**

All slopes outside lake area will be graded to a 3:1 grade.

**2. Seeding:**

All slopes and non-farmable areas will be seeded at a rate of seven pounds per 1,000 square feet of #20 WI DOT specification seed mixture within 7 days of completion of the grading operations. To optimize growth all planting will be conducted between May 15<sup>th</sup> in the spring, and no later than September 15<sup>th</sup> in the fall. Fertilizer shall be applied at the rate of 10 pounds per 1,000 square feet 16-8-8 (NPK). The steep side slopes of the pit will be stabilized with seed and polymer treatment to prevent any erosion. As our long-range plan is to return this site to agriculture, the relatively flat or gently sloping area would be returned to row crops, either such as corn and soybeans or to alfalfa. Therefore seeding of the pit floor will be unnecessary except to allow for any waterways within the site.

Note\*: Please see enclosed WisDOT specifications for seed properties and germination rates.

**3. Drainage:**

This site drainage pattern is self-containing and will remain that way.

**4. Phasing:**

Due to the nature of this site, a phasing plan is not practical. As the deposit is depleted reclamation will begin as soon as possible, and be completed in a timely fashion.

**5. Fencing:**

The entire site is fenced in the normal course of agricultural operations.

**Erosion  
Control:**

During all phases of the reclamation, disturbed area will be closely monitored for potential erosion. The use of silt fencing, rip-rap, hay bales, and prompt seeding and mulching of the finished area will minimize any erosion, as all slopes will drain into the pit itself and be contained on site.

Upon completion of restoration, this site will be monitored to ensure all erosion control measures are maintained and functioning as designed.

**Post Mining  
Land Use:**

Agriculture- Pasture, Row Crops.

**Reclamation  
Estimate:**

Grading: 1' of topsoil or topsoil substitute, @ 1600 cubic yards per acre  
@\$0.63 per cubic yard = \$1,000.00 per acre.  
Seeding, fertilizer and mulch per acre= \$300.00.  
Miscellaneous landscaping and grading per acre= \$200.00  
Total per acre= \$1,500.00

**Criteria for  
Successful  
Reclamation:**

Percent cover of vegetation will determine successful reclamation. Randomly selected sample sites (square meter sections, two per acre) will be employed. Sampling will be conducted during peak growing periods and will compare sample sites to vegetation cover of undisturbed soils in neighboring area. A minimum of 70 percent vegetation (determined by visual count) or equal to percent cover of similarly vegetated areas in undisturbed location will qualify as successfully reclaimed. Annual site inspection will be performed to ensure standards for vegetation and reclamation are followed. If Dane County recommends grading and/or seeding remedial /repair measures or additional erosion control, they will be implemented and later re-evaluated to accomplish successful vegetation and reclamation of the site.

Yahara Material, Inc. will do the majority of the reclamation work during the course of pit operations in an ongoing pattern. As new areas are stripped, the overburden will be used in the reclamation of the previously mined areas. Our plans try to sequence stripping and reclamation so that areas of the pit can be permanently restored while stripping other sections of the pit.

**Conclusion:**

We feel that this is well designed, and can be easily implemented while still meeting all the requirements of NR135.

**Contact  
Person:**

Timothy Geoghegan  
Yahara Materials, Inc.  
P.O. Box 277  
Waunakee, WI 53597  
Phone: (608)-849-4162  
Fax: (608)-849-5062



## **EROSION CONTROL AND STORM WATER MANAGEMENT PLAN**

### **EROSION CONTROL MEASURES:**

#### **ENTRANCE:**

The entrance to these two sites will be through the Halfway Prairie Pit, which has 200 feet of paved driveway, which prevents tracking of material onto public roads. All slopes are seeded with grasses to provide cover.

#### **BERMS:**

The stripped soils will be separated in stock piles, the overburden will be stripped and used as the base of the berm, the top soil will be used to top dress the berms. The top soil and the subsoil will be used in the final restoration. The berms will be constructed with a depression that will serve as a sediment trap at the base of the berm. (See detail. The berms will be seeded and mulched in the spring from May 15 to May 30.). If needed the berm will have a buffer beyond the limits of the berm. This buffer will be seeded and mulched.

#### **SILT FENCING:**

Silt Fencing is used as necessary when soils are being stripped and stockpiled.

#### **STONE WEEPER:**

A stone weeper will be used to slow water velocity and trap any sediment as necessary. The weeper will be built with 3 to 6 inch clear stone, with a depression in the middle and higher at the slope of the ditch. The weeper will have a face with 1 to 2 inch stone.

#### **SEEDING:**

All the berms and non-farmable areas will be seeded at a rate of 7 pounds per 1,000 square feet of #20 WisDot Specification seed mixture within 7 days of completion of the grading operations. To optimize growth all planting will be conducted between May 15<sup>th</sup> in the spring, and no later than September 15<sup>th</sup> in the fall. Fertilizer shall be applied at the rate of 10 pounds per 1,000 square feet 16-8-8 (NPK). The steep side slopes of the quarry will be stabilized with seed and polymer treatment to prevent any erosion. As our long range plan is to return this site to agriculture, the relatively flat or gently sloping area would be returned to either row crops, such as corn and soybeans or to alfalfa. Therefore seeding of the quarry floor will be unnecessary except to allow for any waterways within the site.

**MULCHING:**

The berms will be stabilized with 90 lbs per 1000 square foot (2.5 ton/square foot) of mulch.

Note\*: Please see enclosed WisDOT specifications for seed properties and germination rates.

**MAINTENANCE:**

The berms will be inspected and repaired according to needs of the site. This will include cleaning of the weeper, the sediment basins and additional application of seed and mulch if necessary. The drive way will be maintained free of sediment or soil deposits.

**COST:**

The annual estimated cost of the erosion control measures is approximately \$1500.00 per year

**SCHEDULE:**

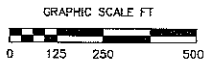
All schedules are presented as an estimate, as work at this site is market driven, and operational dates may vary as market demands dictate. The schedule presented represents a typical year.

- May 1<sup>st</sup>: Strip top soil and overburden, prepare and shape berms for seeding. Construct the swale next to the berms. Direct the excess of runoff into the quarry.
- May 15<sup>th</sup>: Seed and mulch berms and disturbed areas.
- August 15<sup>th</sup>: Seeding established and repair the areas where new vegetation is needed.
- September 1<sup>st</sup>: Inspect all erosion control measures to insure effectiveness.
- Weekly: Inspect all erosion control measures to insure effectiveness.

NOTE: The site is internally draining, no road ditches are present at the site, no cross section, runoff velocities, culverts, are applicable to this site. All three of these sites will be maintained in a coordinated pattern to insure a consistent erosion control and storm water management plan.

The contact person for this Erosion Control and Storm water Management Plan is:

Timothy J. Geoghegan  
Yahara Materials, Inc.  
P.O. Box 277  
Waunakee, WI 53597

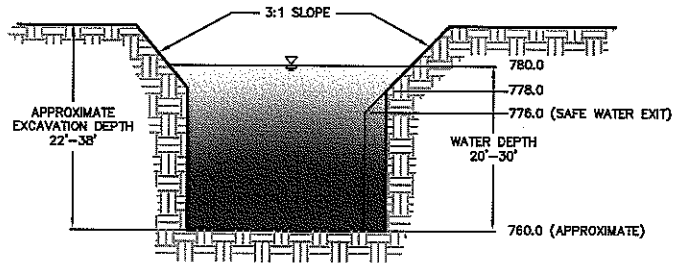


- NOTES:**
- 1) 2010 AERIAL PHOTO BY WISCONSINVIEW.ORG, PARCEL, SOILS & 4' CONTOURS BY DANE COUNTY LJO.
  - 2) STOCKPILED MATERIAL WILL BE REDISTRIBUTED ALONG PIT FLOOR TO PROMOTE REVEGETATION.
  - 3) PROVIDE A 30' PROTECTIVE AREA PER NR 151.1 (5)(d) REQUIREMENTS.
  - 4) NO GRADING SHALL OCCUR WITHIN 300' OF HALFWAY PRAIRIE CREEK.
  - 5) MINED AREA TO BE RETURNED TO AGRICULTURAL LAND USE UPON RECLAMATION OF THE SITE.

**LEGEND:**

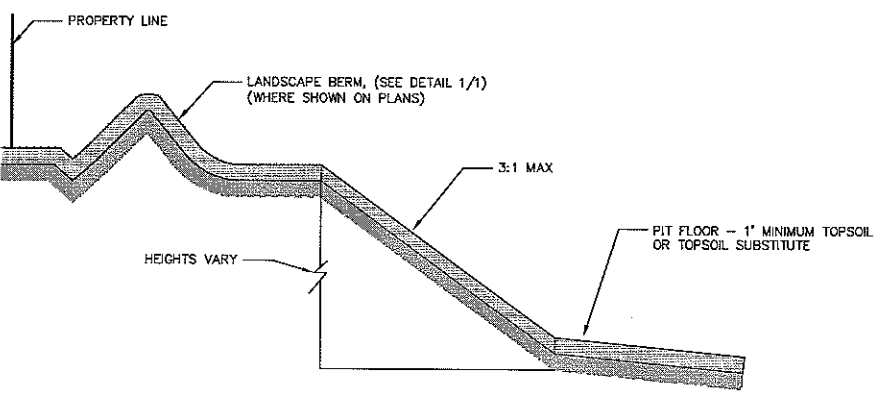
- PROPERTY LINE
- PIT PROPERTY BOUNDARY
- EXISTING 4' CONTOURS
- PROPOSED CONTOURS (RECLAMATION CONTOURS)
- PIT FLOOR ELEV. = 850.0 (APPROX.) AREA = 105.0 ACRES
- SOIL CLASSIFICATION
- USLE SLOPE
- LANDSCAPED BERM

THIS EXHIBIT WAS CREATED AS A COLOR DRAWING FOR CLARITY. PLEASE CONTACT THE ENGINEER TO REQUEST A COLOR COPY OF THE PLAN.

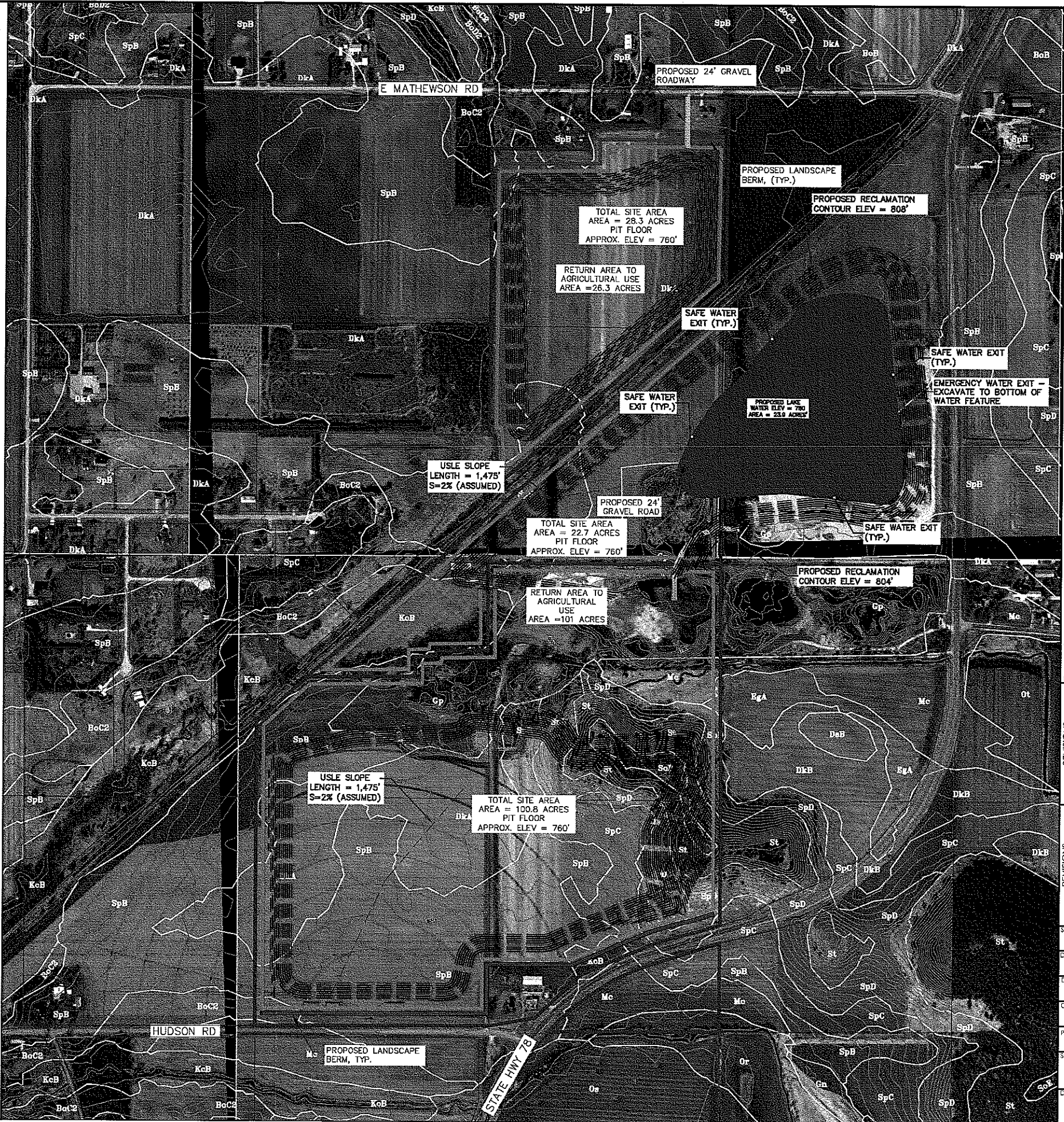


NOTE: SAFE WATER EXIT SHALL EXTEND A MINIMUM OF 6' (VERTICAL) INTO THE WATER AT A 3:1 MAXIMUM SLOPE

**1 LAKE CROSS SECTION**  
SCALE: NONE



**2 SLOPE DETAIL**  
SCALE: NONE



**vierbicher**  
planners | advisors  
REEDSBURG - MADISON - PRAIRIE DU CHIEN  
977 Fuller Drive, Suite 201 - Madison, Wisconsin 53717  
Phone: (608) 824-0332 Fax: (608) 624-0550

Reclamation Plan  
Wipperfurth / Beuthin Pit  
Town of Mazomanie  
Dane County, Wisconsin

REVISIONS		NO.	DATE	REMARKS

SCALE: 1"=17'-1"=600'  
22"x34"-1"=300'

DATE: 05/15/2014

DRAWER: ACAR

CHECKED: RKOL

PROJECT NO.: 96044709

SHEET: 5 OF 5

DWG. NO.: