



*Grading-Paving-Sealing-Striping*

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JUN 29 2020

RACINE COUNTY

## Reclamation Plan

This application and plan is being submitted to Racine County as a request for a nonmetallic mining reclamation permit as required by the State of Wisconsin Administrative Code NR 135. The application describes the operational procedure and proposed reclamation plan for a sand and gravel pit located in the Town of Burlington. The property is a former campground at 7148 McHenry Street, Tax Parcels 002-02-19-07-010-000 and 002-02-19-18-015-000. Refer to the survey map attached. The property is adjacent to two active gravel pits. There is a long, paved road to Highway P for access. The property to the east is a farm field and to the southeast and south there are two homes. The portion of land to the west is wetland.

### Geologic Composition and Depth of Deposit

The glacial deposit below the topsoil and clay is sand and gravel down to groundwater and below groundwater. This is proven by the two active pits next to this property that have excavated to that depth. The top of the hills will be excavated roughly eighty feet deep to the final grade for reclamation.

### Distribution and Thickness of Topsoil

Test holes on the property show roughly one foot of topsoil in the meadow on the eastside of the property. The rolling hills in the woods vary from six inches on the top of the hills to five feet deep in the valleys. Thickness of clay varies in a similar manner.

The wooded area will have roots in the topsoil but after being salvaged, they should rot in the stockpile so it can be spread out in the reclaimed areas.

### Elevation of Groundwater

There is an existing pond at the south end of the property where the groundwater is roughly at elevation 804.

### Reclamation Measures

Before an area has the soil removed, trees that have a value for harvesting logs will be removed. If the remaining trees are not cut for firewood they will be piled and burned. The gravel excavation will work to the western boundary of the pit and will bury stumps and burn



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piles in the slopes, where they will be covered with gravel to a shape ready for soil replacement.

Rather than cut down additional trees in the 200-foot setback, we will stockpile a portion of the first soil removed in phase one to build a berm alongside the east edge of the meadow. As the pit reaches its final depth in the northwest corner, soil will be piled in the bottom of the pit until it is placed on the restored portions of the pit.

The maximum grade on the slopes will be 3H to 1V. When the pit reaches a point that it is in the field on the east half of the property, the soil will be placed into berms along the east and south boundaries of the property. The topsoil will be placed in berms separate from berms with clay.

The soil piles or berms onsite will be shaped and have temporary seed and fertilizer placed within seven days. The seed and fertilizer will conform to Wisconsin D.O.T. specifications for borrow pits. The side of any berms that face a property boundary will have silt fence or waddles placed and maintained until the soil is stabilized with a cover of grass. All other soil piles or berms will have slopes graded, seeded and have washouts repaired until grass holds the soil in place.

No topsoil will be removed from the property. The reclamation will be done in phases with soil removed ahead of the excavation placed on land that is shaped behind the excavation.

### **Topography and Structures**

Refer to the map attached for the topography. There are two homes on the property that will remain in place. A new truck road will be built around the southside of the old farmhouse and will remain in place after reclamation. This will provide access to the reclaimed area and to the home at the south end of the property. That road will be paved to the bottom of the pit but then will be a gravel road on the remainder of the property. Two new ponds will be built and will have a safety ledge built around the edges.

### **Revegetation Plan**

When slopes are ready to be reclaimed, the soil will be placed at a minimum of one-foot depth and planted with a WisDOT 70 seed mix with a fertilizer done in conformance with D.O.T. standards.



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When the lower flat ground is ready, a temporary seed mix will be planted per WisDOT standards for borrow pits. After large areas are completed, this will be replaced with alfalfa when it is feasible to farm it.

The work for planting seed will be done in the spring and fall of each year as much as is practical to insure the best chance of early growth.

The seeded areas that have reclamation completed will be inspected in the spring and fall for washouts that need to be repaired. Those washouts will have soil replaced and be seeded again until the soil is stabilized.

The vegetation that has grown will be called successful for acceptance when at least 80% of the portion of land inspected has a ground cover of grass.

#### **Biological Information and Wildlife**

The native vegetation includes various grasses, sumac, oaks, hickory and black cherry. The rural wildlife includes whitetail deer, turkey, racoon, rabbit, coyote, fox, sparrow, robin, squirrels, and chickadee.

#### **Erosion and Storm Water Management**

As the operation phasing plan shows, the mining is conducted in a manner that minimizes the acreage open before reclamation begins. This serves to control the amount of area subject to erosion in accordance with NR1354.06(2). Topsoil stockpiles shall be seeded with WisDOT #40 seed and applied per the D.O.T. specifications. Silt fence or waddles will be used in accordance with methods and procedures described in the "Wisconsin Construction Site Best Management Practices Handbook," where it is deemed necessary in the field. Silt fence will be placed after a major rain fall event. Except for soil piles that may face a property line, any erosion that may take place will happen in the confines of the pit. The pit is internally drained with no outlets.

A storm water management plan will be submitted to the DNR to obtain a permit. This will include controlling silt and sand runoff into the new ponds.



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**Interim Reclamation**

It is the intent of the operations plan with phasing described, that portions of any phase can be reclaimed after excavation work is complete. The general idea is to crush towards the edges of the pit so slopes can be shaped with soil and seeded.

**Criteria for Successful Reclamation**

The grass will have to achieve a plant density of 80% measured in random locations. Maintenance of the grass may include mowing or reseeding where needed.

**Post Mining Land Use**

The two homes and the related structures will remain. It is anticipated that the land will be rezoned to an agricultural use. It is planned that the perimeter slopes will return to native grasses and find that new trees will naturally take root from the existing woods. The bottom of the pit would be suitable for pasture or growing hay.

I hereby certify that Asphalt Contractors, Inc. will comply with the provisions of this reclamation plan as submitted. This also includes compliance with the statewide nonmetallic mining reclamation standards established in NR135.05 through NR135.15 in the Wisconsin Administrative Code. I also further stipulate that if there is a change in company ownership or the ownership of the land, that Racine County will be given a minimum of 30-day notice and all documentation herein will be revised to reflect those changes.

Dated 6/29/2020

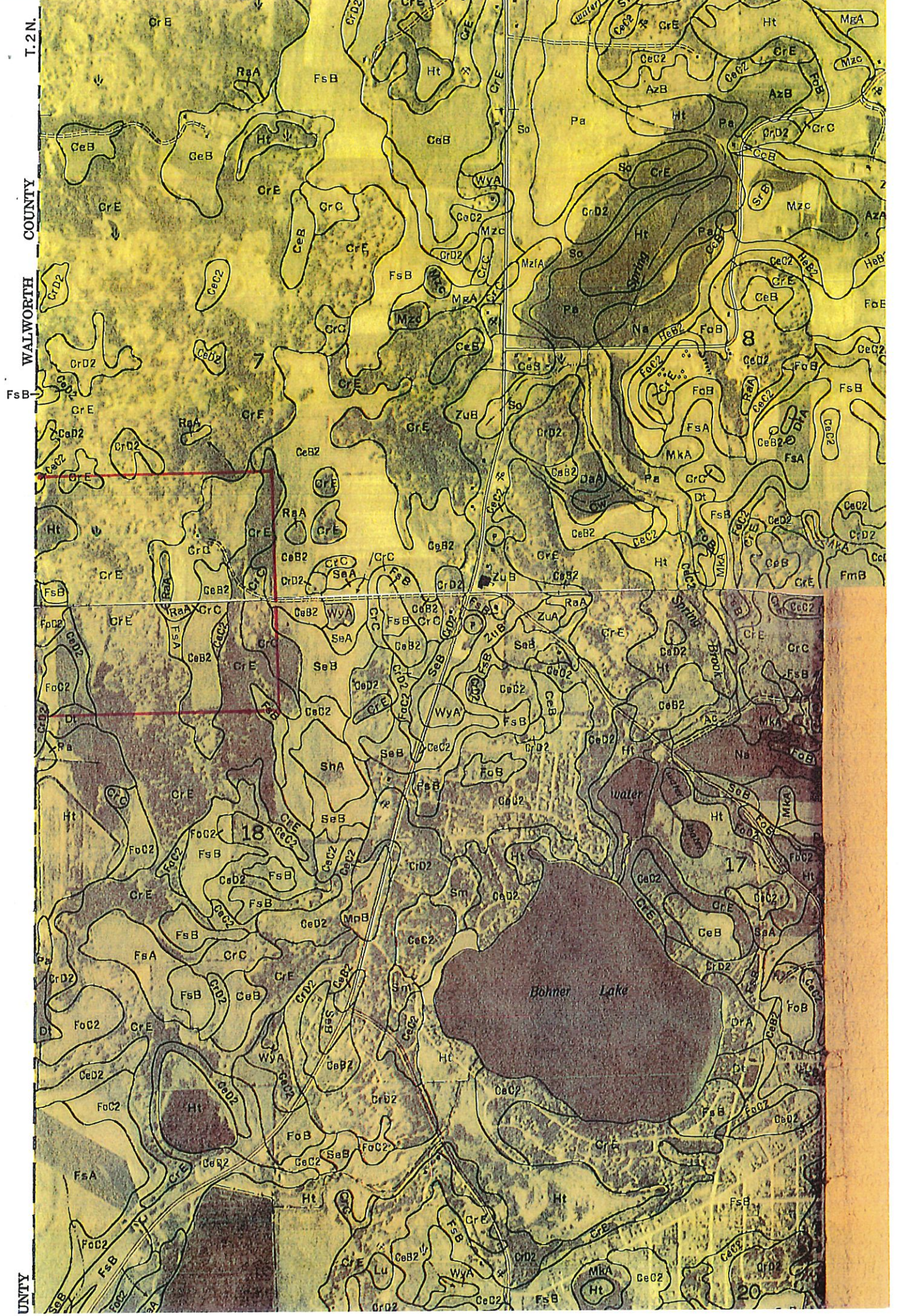
Signed R. Kordus Pres.

Robert Kordus  
President

T. 2 N.

WALWORTH COUNTY

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**Financial Assurance for the Reclamation of the Burlington Campground Pit**

**Mobilization**

Move 4 pieces @ 2 Hours each @ \$120.00/Hour

For each move, \$960.00, round up to \$1,000.00

4 Mobilizations, other mobilizations for reclamation are in conjunction with overburden removal.

$$4 \times \$1,000.00 = \$ 4,000.00$$

**Reclaim Mining Area**

**Price/Acre**

Shape Subgrade: Dozer for 10 Hours x \$150.00/hour= \$ 1,500.00

Place soil: Excavator: \$150.00/Hour

2 Haul Trucks: \$300.00/Hour

Dozer: \$150.00/Hour

\$600.00/Hour x 8 Hours= \$ 4,800.00

\$ 6,300.00/ac

Maximum of 15 Acres open x \$6,300.00 = \$ 94,500.00

Landscape: Till the soil 6 hours x \$75.00: \$ 450.00

Seed 90lbs x \$6.00/lb: \$ 540.00

Fertilizer 50 lb x \$0.75/lb: \$ 37.50

\$1,027.50/acre x 15 acres = \$ 15,412.50

Remove Truck Scale = \$ 1,000.00

\$114,912.50

County Administration 10% = \$ 11,491.25

Total Cost: \$126,403.75

Total Bond: \$130,000.00