

CONDITIONAL USE / SITE PLAN REVIEW APPLICATION

Racine County, Wisconsin

Owner: Losacco, LLC

Applicant/Agent: Asphalt Contractors, Inc.

Town: Burlington

Zoning district(s): M-4 (proposed)

TO THE RACINE COUNTY ECONOMIC DEVELOPMENT & LAND USE PLANNING COMMITTEE:

The undersigned requests a conditional use / site plan review permit to (specify use, project, structure, size, etc.)

To establish & operate a non-metallic mineral extraction (sand & gravel) operation including earthmoving, crushing, washing, stockpiling, transportation & reclamation

AT (site address): 7148 McHenry Street, Burlington, WI

Subdivision: _____ Lot(s): _____ Block: _____

Parcel # 002-02-19-07-010-000, 002-02-19-18-015-000 Section(s) 7, 18 T 2 N R 19 E

If served by municipal sewer, check here: _____ Sanitary permit #: _____

Attached are:

- zoning permit application
- 12 SETS: drawn-to-scale site plan that is based on a survey (10 of the 12 should be sized or folded to 8.5" x 11")
- letter of agent status
- hearing/review fee (Fees are non-refundable, & re-publication/amendment fees will be charged where applicable.)
- 3 SETS: landscaping/lighting plan Reclamation Plan
- 12 SETS: report/cover letter & operations plan
- abutting property owners' names & mailing addresses other

print name: Asphalt Contractors, Inc. e-mail address: aci@mia.net

address: 1701 Main Street telephone #: 262-878-4678

Union Grove, WI 53182

signed: R. Kordus

STAFF USE ONLY:

BASED ON CURRENT MAPPING, check applicable statement(s) below & underline or circle the word "all" or "partially".

N/A The property is all / partially located in the N/A shoreland area.

N/A The project is all / partially located in the N/A shoreland area.

The property is all / partially located in the spring valley creek floodplain.

N/A The project is all / partially located in the N/A floodplain.

The property is all / partially located in the wetland.

N/A The project is all / partially located in the wetland.

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The applicant is subject to the following Racine County Ordinance provisions (specify article/section):

Art VI Div. 70 M-4 Zoning District Section 70-1778 Mineral Extraction zoning & Ch 12.5 Non-metallic Mining Reclamation

Shoreland contract: yes _____ no

Public hearing date: August 17, 2020

Site plan review meeting date: N/A

Submittal received by: [Signature]

Date petition filed: 6/29/2020

cash or check #: 53471

amount received: \$ 475.00

APPLICATION FOR ZONING PERMIT
RACINE COUNTY, WISCONSIN (Rev. 11/20)

PERMIT NO. _____
 DATE PERMIT ISSUED _____

OWNER Losacco, LLC
Mailing _____
Address 7148 McHenry Street

APPLICANT Asphalt Contractors, Inc.
Mailing _____
Address 1701 Main Street

Burlington WI 53105
 City State Zip

Burlington WI 53105
 City State Zip

Phone (H) 262-539-2592 (W) _____

Phone (H) 262-878-4678 (W) _____

Parcel Id. # 002-02-19-18-015-000,
002-02-19-07-010-000

Site Address 7148 McHenry Street, Burlington, WI 53105

Municipality Town of Burlington Section(s) 7,18 Town 2 North, Range 19 East

Lot — Block — Subdivision Name _____ CSM # _____

Proposed Construction/Use To establish & operate a nonmetallic mineral extraction (sand & gravel) operation including; earthmoving, crushing, washing, stockpiling, transportation & reclamation

New Principal Bldg. _____ Size (____ x _____) (____ x _____) (____ x _____)
 Addition _____ Accessory _____ Area (sq ft) (see attached plans) (____ x _____)
 Alteration _____ Deck _____ # of Units/Stories _____ / _____ Building Ht.-Avg. (ft.) _____
 Conversion _____ Sign _____ Peak Ht. (ft.) _____ 100-Yr. Floodplain Elev. _____
 Temporary _____ Other NMM _____ Eave Ht. (ft.) _____ Flood Protection Elev. _____

Contractor Asphalt Contractors, Inc. **Est. Value w/Labor** \$ _____ **ZONING DISTRICT** (proposed) M-4

Existing Nonconforming? <u>N/A</u>	* Yes _____ No <input checked="" type="checkbox"/>	Yard Setbacks	Proposed _____	OK? _____
*Structure's Fair Mrkt Value \$ _____	Cumulative % _____	Street-1 st	_____	_____
*>50% of Fair Market Value? <u>N/A</u>	Yes _____ No _____	Street-2 nd	_____	_____
Structure in Shoreland? (per map)	Yes _____ No <input checked="" type="checkbox"/>	Side-1 st	<u>see attached</u>	_____
Structure in Floodplain? (per map)	Yes _____ No <input checked="" type="checkbox"/>	Side-2 nd	<u>plans</u>	_____
Structure in Wetland? (per map)	Yes _____ No <input checked="" type="checkbox"/>	Rear	_____	_____
Substandard Lot?	Yes _____ No <input checked="" type="checkbox"/>	Shore	_____	_____
Abutting Lot-Same Owner/Closely Related?	Yes _____ No <input checked="" type="checkbox"/>	Total Acc. Structures	_____	_____
BOA Variance Needed?	Yes _____ No <input checked="" type="checkbox"/>	Date of Approval	_____	_____
<u>Conditional Use</u> Site Plan Needed?	Yes <input checked="" type="checkbox"/> No _____	Date of Approval	_____	_____
Shoreland Contract Needed?	Yes _____ No <input checked="" type="checkbox"/>	Date of Approval	_____	_____

Additional Zoning Permit Stipulations Listed on Back of this Form? Yes _____ No _____ (If "Yes," see back)

The applicant hereby acknowledges receipt of notice contained herein and certifies that submitted information/ attachments are true and correct to the best of the knowledge and belief of the signer, and that all construction/ use will be done in accordance with the Zoning Ordinance, applicable stipulations, and Wisconsin laws.

BOA/Conditional Use/Site Plan Pd: \$ 475.00 R. Korcus Pres 6-29-2020
 CC Date/Check/Cash # 53435 **Signature of Owner /Applicant** **Date**

Shoreland Contract Fee Pd: \$ _____ Robert Korcus
 CC Date/Check/Cash # _____ **Print Name(s)**

Zoning Permit Fee Pd: \$ _____
 CC Date/Check/Cash # _____ Notes (revisions, extensions, etc.)

Other: _____ Pd: \$ _____ **JUN 29 2020**

if shoreland erosion review fee is included above Zoning Administrator (Staff Initials)
RACINE COUNTY

Make checks payable to "Racine County Development Services" - Note: ALL FEES ARE NONREFUNDABLE (OVER)

PIN 0020219 - 07 - 010000
 0520219 18 014000

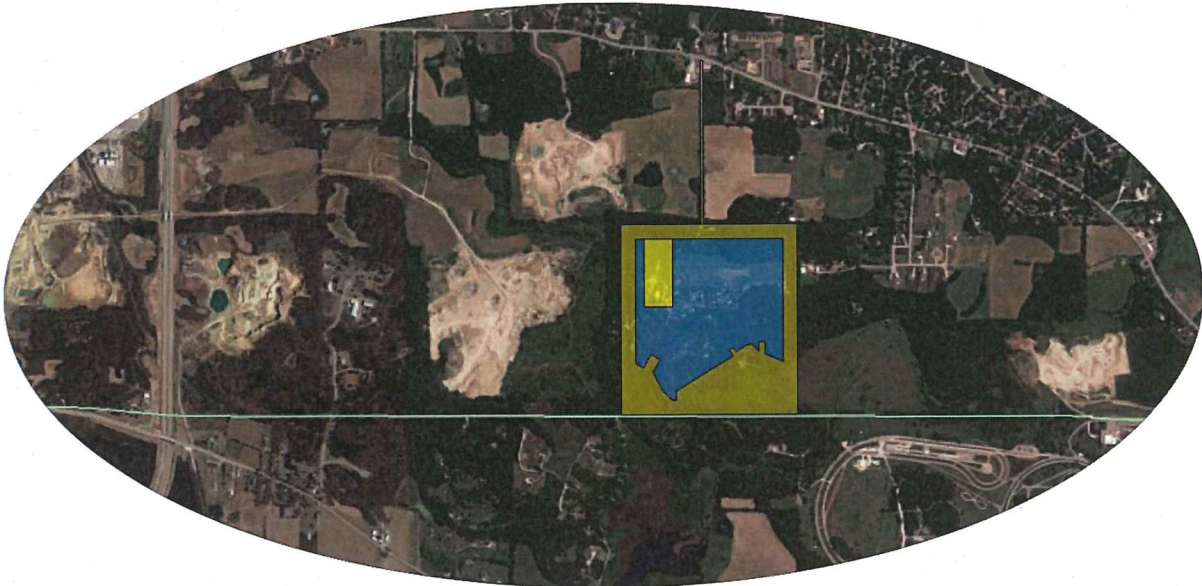
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Mineral Extraction Burlington, Wisconsin



Vicinity Map



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Cover Page

Asphalt Contractors, Inc. is an asphalt maintenance, paving, and producing contractor with a home office located in Union Grove, WI and an asphalt plant in Burlington, WI. The company employs around 100 people on average, performing services such as asphalt production, paving, sealing, striping, grading, crushing, and maintenance.

We are proposing a mineral extraction process as depicted on the enclosed plans drawn by Cardinal Engineering. To produce asphalt, we need very specific type of aggregate. The aggregate resources in this area do not produce the gradations needed. With recent demand from construction projects in SE Wisconsin, the availability for aggregates is rapidly depleting.

This year we have been successful in providing low bids to the Towns of Burlington and Lafayette, Villages of Sturtevant, Fontana, and Twin Lakes, and the City of Delevan. To remain competitive and offer low bids we need a viable source of aggregate.

Initially, this project would be rezoned to allow mineral extraction. Asphalt Contractors is proposing an access road off County Highway P, with acceleration/deceleration lanes subject to the approval of Racine County. Traffic impact should be less than 1%. There would be no traffic on town roads other than travel for work being performed.

The project would proceed according to the enclosed phasing diagram. We also have included a restoration phasing diagram. The property will initially be rezoned to accommodate the mineral extraction process, but as the project is completed it will return to agricultural zoning.

There will be a scale house with bathroom facilities for truck drivers and employees. We will have a septic system that meets the requirements of Racine County. We have strategically located runoff ponds to collect site water. The entire site will have inward drainage and no water will be allowed to exit the mineral extraction area and enter streams, rivers, or lakes. The extraction process does not require blasting; therefore, none will be done. We will not import concrete or asphalt for crushing, those functions are already taking place at our Burlington Asphalt Plant.

We have recorded the existing noise/decibel levels on site and in the surrounding area. It is our intention that the noise level at the neighboring properties be no more than the existing levels prior to the projects start.

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Groundwater Impact

Asphalt Contractors will not adversely affect the existing neighboring water supplies. All drainage will be inward drainage, no site water will run offsite. Asphalt Contractors' excavation will be above the water table. The water table is at an elevation of 804 ft. Asphalt Contractors will not be excavating in the water table per our submitted plans.

According to a study completed for the Minnesota Department of natural resources, gravel pit mining has minimal impacts on water aquifer levels and surrounding well levels in the areas. Gravel pit operations are considered a "clean" industry, which means that no chemicals or solvents are used throughout the excavation process; water quality in and around gravel mining pits is not normally an issue. Additionally, groundwater contamination that has occurred in certain situations were found to be caused entirely from human and animal waste. Aggregate extraction and processing is not a source of this type of contamination.



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Air Quality Impact

The United States Environmental Protection Agency (U.S. EPA) provides information pertaining to national ambient air quality standards (NAAQS) that all industries within the United States must comply with. These values are professionally reviewed and updated approximately every 6 years. A portion of the NAAQS table can be found below.

The primary quality standard refers to sensitive populations, such as those that are asthmatic, elderly, or young. As long as the air emissions are below the primary value, those that are most vulnerable to air particles are protected.

Particulate matter comes in many different forms and sizes. However, the U.S. EPA focuses on particles that are 2.5 microns and 10 microns in diameter. The 2.5-micron particles, which are smaller and more dangerous, are primarily made through combustion processes. The proposed gravel pit will **not** generate this type of particulate. The 10-micron particles are generated through stone crushing activities and will be the main focus of air quality control on site.

The Wisconsin Department of Natural Resources (WDNR) follows and enforces the U.S. EPA values for air quality standards. Our crusher, which is the main source of particle emission on site, is regulated through the WDNR and has obtained an operational permit. This permit states that crusher air emissions are below the primary standard.

Particle Pollution (PM)	PM _{2.5}	primary	1 year	12.0 µg/m ³	annual mean, averaged over 3 years
		secondary	1 year	15.0 µg/m ³	annual mean, averaged over 3 years
		primary and secondary	24 hours	35 µg/m ³	98th percentile, averaged over 3 years
	PM ₁₀	primary and secondary	24 hours	150 µg/m ³	Not to be exceeded more than once per year on average over 3 years

NAAQS data provided by the United States Environmental Protection Agency.

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Traffic Impact Calculations

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There will be minimal impact to traffic per the below calculations. The quarry will largely support Asphalt Contractors internal product needs and as such the truck traffic on Highway P already encompasses the current truck traffic of our business. ****Our truck traffic is already there and included on the counts.*

Operating Assumptions

Estimated Mineral Extraction: 150,000 tons a year

Season: April – November (8 months, 1 month = 4.25 weeks, 5 days/week)

Truck Load: 20 tons

$$\frac{8 \text{ months}}{\text{year}} \times \frac{4.25 \text{ weeks}}{\text{month}} \times \frac{5 \text{ working days}}{\text{week}} = \frac{170 \text{ working days}}{\text{year}}$$

$$\frac{150,000 \text{ tons}}{\text{year}} \div \frac{20 \text{ tons}}{\text{truck}} = \frac{7,500 \text{ trucks}}{\text{year}}$$

$$\frac{7,500 \text{ trucks}}{\text{year}} \div \frac{170 \text{ working days}}{\text{year}} = \frac{44 \text{ trucks}}{\text{day}}$$

Estimated Traffic Impacts by Direction

****For our model, we will round up to 50 trucks. Scenarios are in order from Most to Least likely.*

Scenario 1:

All 50 Trucks North:

North: 0.6% of total daily traffic

South: 0.0% of total daily traffic

Note: If tonnage doubles, the maximum impact is 1.1% of total daily traffic

Scenario 2:

25 Trucks North and 25 Trucks South:

North: 0.3% of total daily traffic

South: 0.8% of total daily traffic

Note: If tonnage doubles, the maximum impact is 0.6% of total daily traffic North and 1.6% of total daily traffic South

Scenario 3:

All 50 Trucks South:

North: 0.0% of total daily traffic

South: 1.6% of total daily traffic

Note: If tonnage doubles, the maximum impact is 3.2% of total daily traffic

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Noise Impact

Asphalt Contractors' objective is to have no greater noise levels than those that currently exist. Per the values and chart listed below, our target distance between our neighbors and crushing equipment would not be less than 700 ft with no berm. We have selected a minimum distance of 700 ft between crushing equipment and neighbors to insure a 45 dB level. We are also installing berms as shown on the diagram to control any fugitive noise.

Reference Values

Normal Conversation: \approx 60 dB

Lawn Mower: \approx 90 dB

Loud Rock Concert: \approx 120 dB

Experimental Values

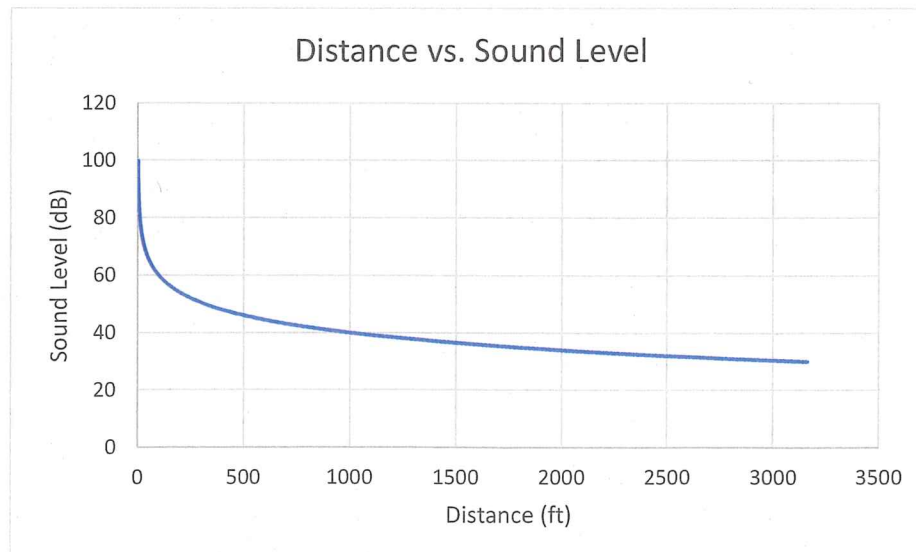
Backup Alarm: \approx 100 dB

Burlington Crusher: \approx 92 dB

Milwaukee Crusher: \approx 100 dB

The Milwaukee crusher sound level reading will be used for calculations to ensure that the "worst case scenario" is simulated. The target value that is to be obtained is 45 dB, which represents the ambient sound level within the Asphalt Contractors parking lot.

Using the inverse square law, it was determined that it would take 562 ft for the reduction of 100 dB to 45 dB. The graph below visually displays the distance to sound level relationship.





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Noise Impact Calculations

To ensure that our estimations for noise impact were free of human error, we used the estimation calculator software provided by Georgia State University.

Distance from crusher necessary to be at 45 dB is 562 ft.

$$\frac{I_2}{I_1} = \left[\frac{d_1}{d_2} \right]^2$$

If you measure a sound level $I_1 = 100$ dB

at distance

$d_1 = 0.3048$ m = 1 ft

then at distance

$d_2 = 171.2976$ m = 562.0000 ft

the inverse square law predicts a sound level

$I_2 = 45.00527$ dB

Noise level to the closest neighbor who is 867 ft away is 41.2 dB.

$$\frac{I_2}{I_1} = \left[\frac{d_1}{d_2} \right]^2$$

If you measure a sound level $I_1 = 100$ dB

at distance

$d_1 = 0.3048$ m = 1 ft

then at distance

$d_2 = 264.2616$ m = 867.0000 ft

the inverse square law predicts a sound level

$I_2 = 41.23961$ dB

Note: Estimations are calculated at the house structure.

Noise level to the second closest neighbor who is 976 ft away is 40.2 dB.

$$\frac{I_2}{I_1} = \left[\frac{d_1}{d_2} \right]^2$$

If you measure a sound level $I_1 = 100$ dB

at distance

$d_1 = 0.3048$ m = 1 ft

then at distance

$d_2 = 297.4848$ m = 976.0000 ft

the inverse square law predicts a sound level

$I_2 = 40.21100$ dB

Note: Estimations are calculated at the house structure.

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