

Proposed Paris Plains Pit

699 PARIS PLAINS CHURCH ROAD



A COLAS COMPANY

About Us... The Miller Group

- Builds and supports urban and rural infrastructure across Canada
- Is a part of Colas Canada and The Colas Group of companies – a Canadian and world leader in construction and the maintenance of transportation infrastructure
- Locally known as Tri City Materials and Tri City Ready Mix
- Recently celebrated 107 years of time-proven construction methods and innovative technology
- For over 30 years, the Miller Group has been a leading supplier of construction materials for the production of asphalt and concrete, and for use in a variety of construction and rehabilitation projects
- Over 40 pits and quarries across Ontario, Nova Scotia and New Brunswick
- Miller takes pride in being an active member of local communities across the province

OUR VALUES

1	SAFETY & WELL-BEING We work safely to bring our best self home to our families.	2	COMMITMENT TO PEOPLE At our core we are our people. We succeed because we respect our people and invest in their development and well-being.	3	INTEGRITY We do the right thing because it's the right thing to do.
4	ACCOUNTABILITY We own our actions, our decisions, and our results.	5	COMMUNITY Our family, we live where we work.	6	ENTREPRENEURIAL SPIRIT We seek improvement and embrace innovation.



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Proposed Paris Plains Pit

Update

- Miller has submitted its application for a sand and gravel pit above the water table to the Province (Ministry of Natural Resources and Forestry) and the County of Brant
- The application to the Province is to operate a sand and gravel pit under the Aggregate Resources Act. The application to the County is for a Zoning By-Law Amendment to allow the land to be used for a sand and gravel pit
- The Provincial application has been deemed complete and is now undergoing the review process. We are working through comments received on the County application.
- The application process can take several years
- The application process allows for several periods of public and Indigenous consultation
- Separate notices (and public meeting) will come from the County of Brant

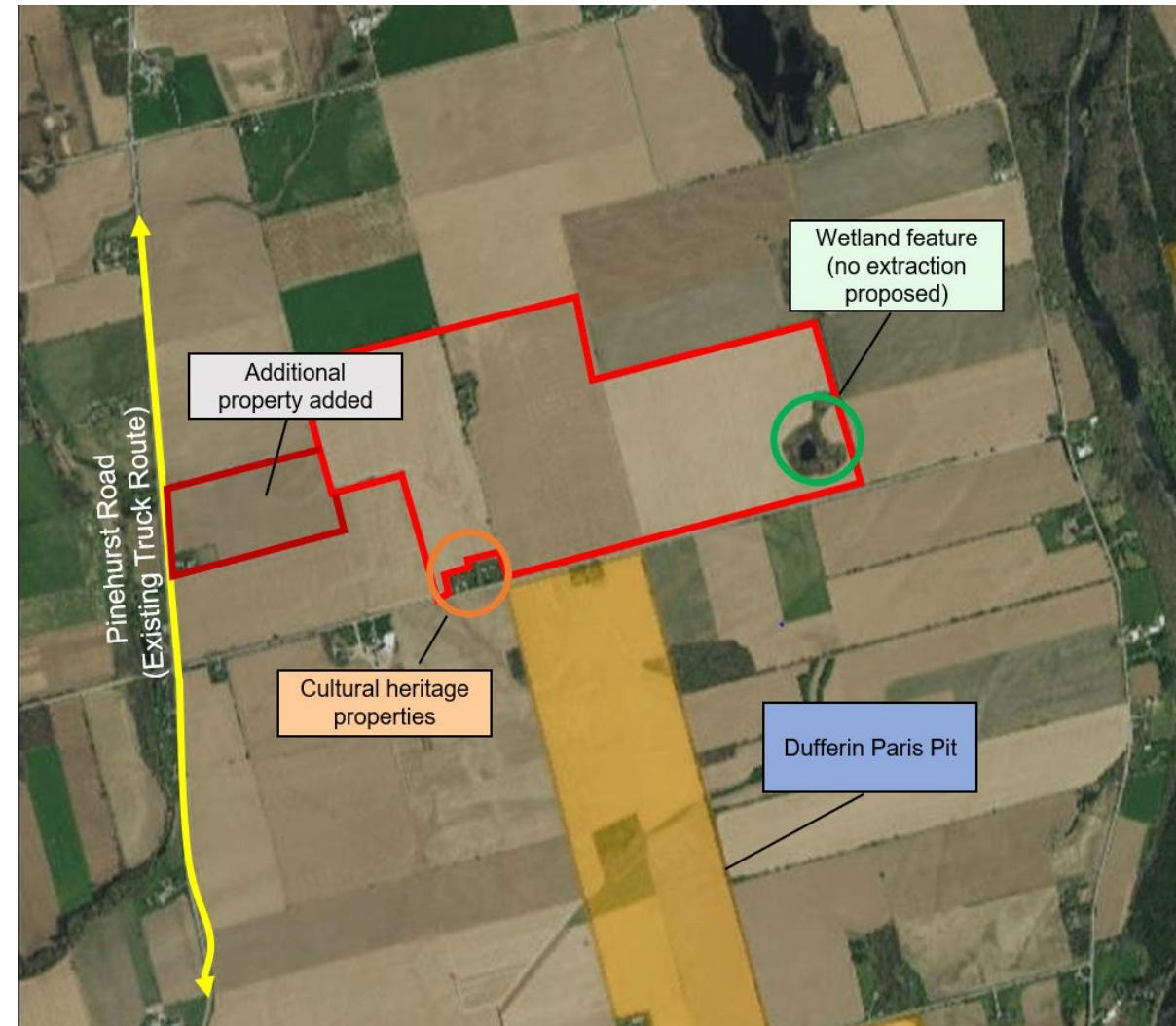
Proposed Paris Plains Pit

- The site is located about 1 km north of Paris
- Located in a primary aggregate deposit as mapped by the County of Brant and Province of Ontario
- Proposed sand and gravel pit with extraction above the water table only



Project Context

- Property is currently used for agricultural purposes
- Licence area of approx. 125.8 ha and extraction area of approx. 105.4 ha
- Adjacent to existing and historical aggregate operations
- Will utilize existing designated haul routes via Pinehurst Road
- Small on-site wetland feature will not be extracted and will be protected
- Working with Paris Plains Cemetery Association to donate adjacent land



Proposed Operations

- Five sequential extraction phases
- Processing will occur outside of the WHPA
- Plan includes setbacks, buffers, and mitigation measures to minimize impact
- 1,000,000 annual tonnage limit
- Proposed Hours of Operation
 - Weekdays: 7:00 am to 7:00 pm
- Proposed Hours of Shipping
 - Weekdays: 6:00 am to 6:00 pm
 - Saturday: 8:00 am to 2:00 pm

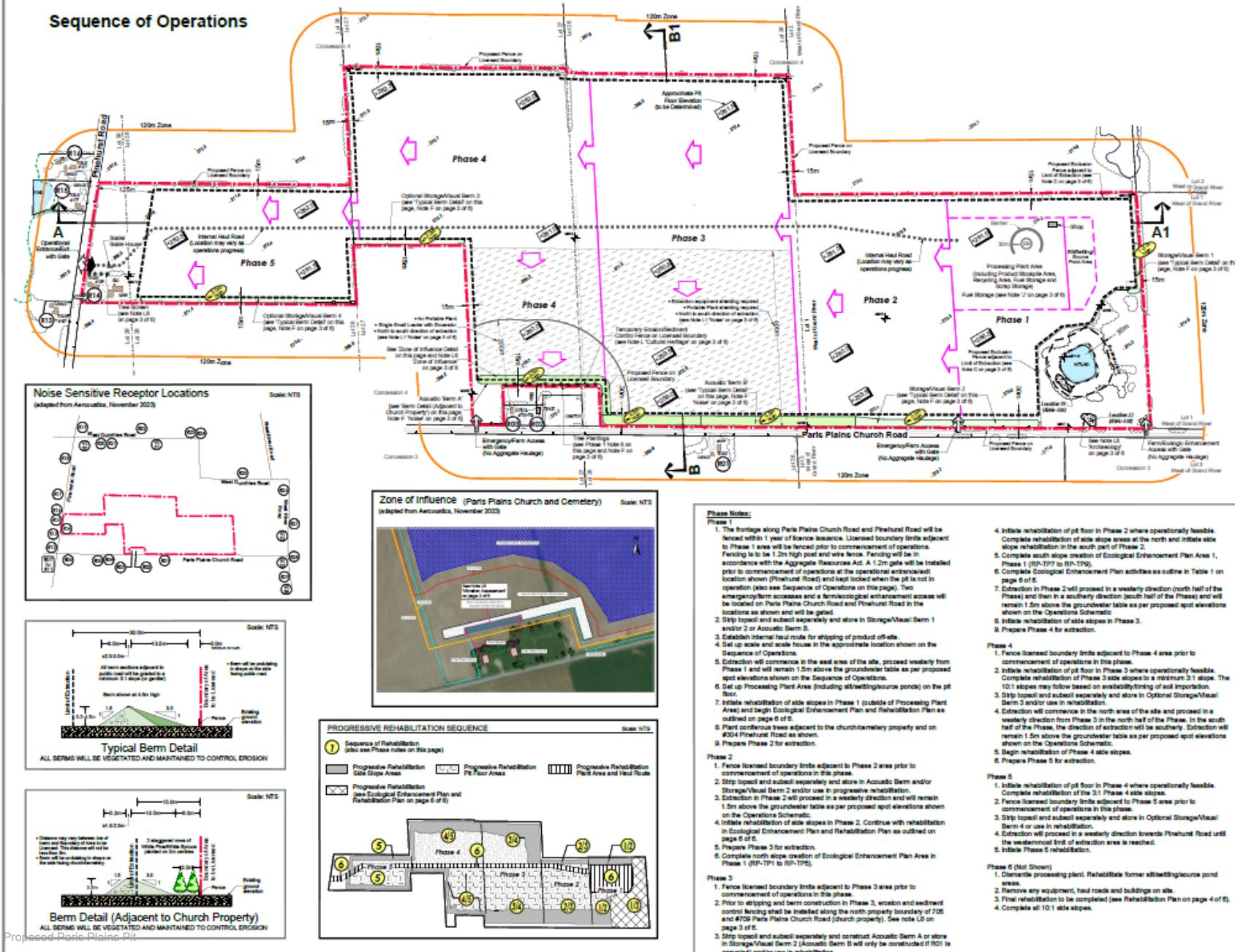


Application Studies

1. Planning Justification Report and ARA Summary Statement
2. Cultural Heritage Impact Assessment
3. Traffic Impact Study
4. Noise Impact Study
5. Vibration Study
6. Air Quality Assessment
7. Environmental Impact Study & Ecological Enhancement Plan
8. Agricultural Impact Assessment
9. Water Report (Hydrogeology Study)
10. Noise Impact Study
11. Archaeological Assessment Reports
12. ARA Site Plan (Existing Features, Operations Plan, and Rehabilitation Plan)



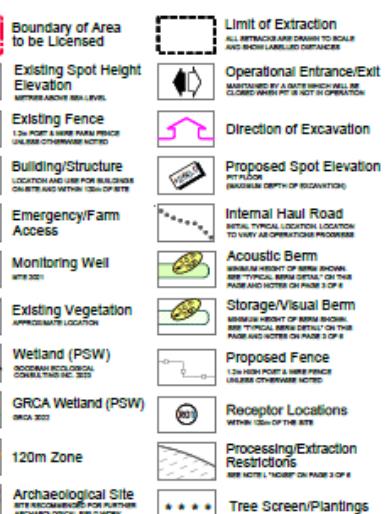
Sequence of Operations



Legal Deposit

Part of Lots 26 to 29 and Part of Lot 1 West of Grand River
Concession 4 (Geographic Township of Dumfries)
County of Brant

Legend



Unit 8

Accident

The logo for Miller Aggregates, featuring a stylized 'M' composed of a series of vertical bars of decreasing height, with the word 'Miller' in a bold, sans-serif font to its right, and 'AGGREGATES' in a smaller font below it.

Applicant's Signature

Paris Plains Pit

RA Licence Reference No.	Pre-approval review:		
For Application Submission - December 2023			
Plan Scale: 1:4,000 (Arch D)	Plot Scale: 1:4 [1mm = 4 units]	MODEL	
	Drawn By	D.G.S.	File No.
METERS	Checked By	C.P.	21236A
OPERATIONAL PLAN			
Drawing No.	2 OF 6		



A. General
 1. The site plan is prepared under the Aggregate Resources Act (ARA) for a Class A licence for a pit above the ground water table and follows the Aggregate Resources of Ontario Site Plan Standards August 2020, specifically Operations for all sites (Numbers 33-65 in the standards).
 2. Area Calculations: The Area of 105.4 hectares (260.4 acres).
 3. The maximum number of tonnes of aggregate to be removed from this property is 1,000,000 tonnes in calendar years.
 4. The site plan includes an area of 1000m x 1000m squares on an elevation of approximately 261.3 and 262.3 (minimum elevation water level) mASL. The water table slopes from north or northeast to south or southwest. The existing water table elevations are shown on each cross section on page 5 of Groundwater. Water elevation provided by MTE (December 6, 2023).
 5. The site plan includes the location of the Wellhead Protection Area (WPA) and the Wellhead Protection Area (WPA) which is part of the Lake Erie Source Protection Region (LESPR). A portion of the site exists within the Wellhead Protection Area (WPA) B, C and D. No proposed on-site activities are considered to be significant drinking water threats. See Hydrogeology notes on this page for details.
 6. Setbacks will be shown and labeled on the Sequence of Operations Diagram (page 2 of 6) and on the Existing Features Plan (page 1 of 6).
 7. Agricultural production may continue in areas not under extraction.
B. Hours of Operation
 1. The proposed hours of extraction and processing shall be limited to the daytime hours only (0600-1800), with shipping operations limited to the hours of 0600-1800. On Saturday, only shipping can occur and this can only take place between 0600-1400.
C. Site Access and Feeding
 1. The following access methods may be utilized for maintaining, setting maintenance and agricultural access. The access shall be kept, kept closed during hours of non-operation and shall be maintained throughout the life of the licence. Aggregate trucks shall not be permitted on the roads at these locations:
 2. The site shall be accessible via the internal roads and the operational area as shown and will be graded.
 3. A small portion of the boundary of the site is currently in the first year after licence issuance, fencing will be installed along the Parks Plains Church Road and Pinhook Road boundaries. The fencing will be installed in accordance with the Ontario Building Code in each phase as operations progress. This fencing will be MPA requirements.
 4. Excavation fencing shall be installed adjacent to the limit of extraction as shown on the Sequence of Operations between the area to be disturbed and the archaeological area and agricultural area. The fencing shall be installed in accordance with the Ontario Building Code. Installation of erosion and sediment control fencing will occur along the north property line of the church property during term construction and will be removed once the vegetation cover has established (see Note 1, Cultural Heritage on this page).
D. Drainage
 1. During excavation surface drainage from active pit areas will be detailed within the pit area. Drainage will continue to percolate naturally through the soil of undeveloped areas of the pit.
E. Site Preparation
 1. Prior to site preparation, a Spills Contingency Plan shall be developed to address any potential spills from equipment or fuel. Fuel storage facilities are located in Phase 1. The fuel storage area will be located outside of Wellhead Protection Areas (WPA) (Mobile equipment will be located outside of the WPA).
 2. Timber resources (Tim) will be salvaged for use as log, fence posts, and natural wood where appropriate. Non-merchantable timber, stumps and brush may be used or utilized for use in progressive rehabilitation and ecological enhancements. Excessive material not required for use in progressive rehabilitation will be removed by the end of the licence.
 3. Topsoil and subsoil shall be stripped and stored separately in accordance with Agricultural Impact Assessment (AIA) recommendations.
 4. All available soil will be used as soon as possible for rehabilitation and if excavated soil and subsoil not required for rehabilitation use in the creation of an acoustic barrier or rehabilitation, shall be used for the creation of a topsoil or subsoil mix for the creation of a topsoil mix during Phases 1-3. Topsoil and overburden topsoil shall be located within the limit of excavation and remain a minimum of 30 metres from the licence boundary and 50 metres from a property with residential use (see also, Operations Schedules on page 3 of 6).
 5. Temporary topsoil and subsoil which remain for more than one year shall have their slopes regulated to control erosion.
F. Berms and Screening
 1. Berms and screening shall be as specified in the location shown on the Sequence of Operations.
 2. The height of berms is the minimum required for aquatic保育.

3. Berms shall not exceed 1.5 m on the interior (excavated) side and 2 m on the exterior side facing Parks Plains Road. See 'Typical Berm Detail' on page 2 of 6.
 4. Berms shall not exceed 3.0 m on the exterior side facing the church property.
 5. Berms shall not be located within 30 m of the licence boundary.
 6. The proposed berms shall be constructed and maintained in accordance with the details on page 2 of 6 and will be vegetated to control erosion through the operational life of the pit, using a mix of native and non-native species (e.g. MTO Seed Mix or equivalent, mixture of Creeping Red Fescue, Prairie Ryegrass, White Clover, and White Clover). Temporary erosion control will be implemented as required.
 6. In addition to acoustic berms, optional acoustic berms may be constructed in the locations as shown.
 7. These berms (see Note 1) will be planted within the surface area between the berms and the boundary adjacent to the church and maintained at commencement of operations. These trees will be planted in front of the berm required for noise attenuation during operations to provide additional screening to the site and shall be maintained throughout pit operations.
 8. A row of trees (see Note 1) will be planted between the head road and the house at #904 Pinhook Road at the same time the head road is being constructed.
 9. The portion of berms that are facing public roads or the church property will be constructed as they are undertaking the construction of the berms.
 10. Existing trees within the site area will be maintained except where berms are required. Red Cedar (Juniperus virginiana), White Cedar (Thuja occidentalis), White Pine (Pinus strobus), White Spruce (Picea glauca), Eastern Cottonwood (Populus deltoides), Hackberry (Celtis occidentalis), Tilia (Tilia americana), Common Buckthorn (Rhamnus cathartica), White Birch (Betula papyrifera), Gray Dogwood (Cornus canescens), Highbush Cranberry (Vaccinium corymbosum), Shagbark Hickory (Carya ovata).

G. Extraction Sequence
 1. The operational plan includes a schematic operations sequence for this property. Phases do not represent any specific or equal time period and blending requirements may require material from different phases. The direction of extraction will be in accordance with the Ministry of Labour requirements. The proposed pit floor will be located at an elevation of 261.3 m ASL (Nadir corner of Phase 5) or 260.0 m ASL or 7.5 m to 14.0 m below the existing ground surface.
 2. Only above water extraction will occur across the site. For the majority of the site, the groundwater table is approximately 10m above the ground surface. Excavation will take place at a minimum elevation of 14.0 m ASL (Nadir corner of Phase 5) or 260.0 m ASL and Cross Section Plan (page 8 of 6) for excavation depths and final rehabilitation of the production and screening of aggregate materials (see also, Operations Notes on page 2 of 6).
H. Extraction Details
 1. The maximum depth of extraction is as shown as an elevation on the Sequence of Operations. Extraction Phase 1 of 6 (approximately 10m) will occur in up to 20m through the five phases as shown on the Sequence of Operations on page 2 of 6 and in accordance with the Ministry of Labour requirements. The proposed pit floor will be located at an elevation of 261.3 m ASL (Nadir corner of Phase 5) or 260.0 m ASL or 7.5 m to 14.0 m below the existing ground surface.
 2. Only above water extraction will occur across the site. For the majority of the site, the groundwater table is approximately 10m above the ground surface. Excavation will take place at a minimum elevation of 14.0 m ASL (Nadir corner of Phase 5) or 260.0 m ASL and Cross Section Plan (page 8 of 6) for excavation depths and final rehabilitation of the production and screening of aggregate materials (see also, Operations Notes on page 2 of 6).
I. Aggregate Production
 1. Aggregate processing will take place in Phase 1, in the area delineated on the Sequence of Operations drawing, except for primary crusher which will move with the active pit face and subject to noise recommendations in L1 on the page (also see page 2 of 6).
 2. Internal head roads will vary as extraction progresses. The head road will transport materials from east part of the site in a westerly direction to access the operational areas on Pinhook Road.

L. Equipment and Processing

1. The equipment used on site for aggregate operations may include and is limited to: Processing Plant, Excavator, Loader, Screening, Screening and Stockpiling, Stockpiling, Pile Driver, 2 Excavators, Haul Truck, Tractor, Tiller, and Compactor.

2. The wash plant, including associated activities (e.g. a sand screen, pit sand, pit sand etc.), is planned to be located in the Processing Plant Area in Phase 1 subject to applicable Permit to Take Water.

M. Fuel Storage

1. Fuel or associated products may be stored on site in Phase 1 outside of the Wellhead Protection Area (WPA). See Sequence of Operations drawing on page 2 of 6. The licensee of permit shall ensure that the fuel storage facility is in accordance with the Ontario Ministry of Natural Resources and Energy, 2000 (O Reg 244/97 Section 6.12 (1) (One) also Hydrogeology notes on this page). Mobile equipment will be refuelled by fuel truck or at the fuel storage facilities located in Phase 1.

N. Scraps, Recycling and Accessory Aggregate Use

1. Scraps will be stored on site within the Processing Plant Area. Scraps will only include materials derived from the operation of the pit such as scrap metal or lumber, discarded machinery and equipment. Scraps will not be located within 30m of any body of water or within 50m of the Pinhook Road or Parks Plains Church Road.

2. All scrap will be removed on an ongoing basis. The property will be kept in an orderly condition.

O. Recycling

1. Recycling of concrete, asphalt and other aggregate products, will be permitted on site and located in the Processing Plant Area.

2. Recycled materials may be accepted and be accepted with the following:

- 30m of any body of water or man-made pond;

- 2m of the surface of the established water table.

3. Any rebar and other structural metal must be removed from the recycled material during processing and placed in a designated scrap pile on site which will be removed on an ongoing basis.

4. Removal of recycled aggregate is to be ongoing.

Once the aggregate has been depleted there will be no further importation of recyclable materials permitted.

5. Once the recycling has been completed and approved in accordance with the site plan, all recycling will be removed.

6. Aggregate from outside the site may be imported onto the site subject to the following:

a. Imported aggregate may be created, processed and blended with on-site and/or imported material.

b. The imported aggregate removed from the site each year shall be tracked and reported on the return metric under Section 14.1 of the ARA.

c. The quantity of imported aggregate removed from the site each year shall count toward the maximum annual tonnage limit.

P. Report Recommendations

1. Notes (cont'd)

Numerical Specifics to Receptor R01:

If R01 is occupied during extraction of the phases listed below, the following additional noise controls shall be employed:

General R01 (cont'd):

1. During processing operation, an acoustic barrier shall be located between the Processing Plant and Wash plant and Receptor R01, with a minimum height of 12 m within 30 m of these sources.

Q. Phase 2 - Continued

1. Prior to extraction or processing operations in the Phase 2 area, an acoustic barrier shall be extended to a minimum height of 4.5 m and a length of approximately 300m shall be installed as shown on the Operational Plan (Item 6) and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 3 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 3 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

R. Phase 3 - Continued

1. Prior to extraction or processing within the Phase 4 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 5 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 5 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

S. Phase 4 - Continued

1. Prior to extraction or processing within the Phase 6 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 7 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 7 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

T. Phase 8 - Continued

1. Prior to extraction or processing within the Phase 9 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 10 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 10 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

U. Phase 11 - Continued

1. Prior to extraction or processing within the Phase 12 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 13 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 13 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

V. Phase 14 - Continued

1. Prior to extraction or processing within the Phase 15 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 16 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 16 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

W. Phase 17 - Continued

1. Prior to extraction or processing within the Phase 18 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 19 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 19 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

X. Phase 20 - Continued

1. Prior to extraction or processing within the Phase 21 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 22 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 22 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

Y. Phase 23 - Continued

1. Prior to extraction or processing within the Phase 24 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 25 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 25 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

Z. Phase 26 - Continued

1. Prior to extraction or processing within the Phase 27 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 28 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 28 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

A. Phase 29 - Continued

1. Prior to extraction or processing within the Phase 30 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 31 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 31 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

B. Phase 32 - Continued

1. Prior to extraction or processing within the Phase 33 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 34 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 34 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

C. Phase 35 - Continued

1. Prior to extraction or processing within the Phase 36 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 37 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 37 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

D. Phase 38 - Continued

1. Prior to extraction or processing within the Phase 39 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 40 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 40 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

E. Phase 41 - Continued

1. Prior to extraction or processing within the Phase 42 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 43 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 43 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

F. Phase 44 - Continued

1. Prior to extraction or processing within the Phase 45 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 46 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 46 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

G. Phase 47 - Continued

1. Prior to extraction or processing within the Phase 48 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 49 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 49 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

H. Phase 50 - Continued

1. Prior to extraction or processing within the Phase 51 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 52 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 52 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

I. Phase 53 - Continued

1. Prior to extraction or processing within the Phase 54 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 55 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 55 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

J. Phase 56 - Continued

1. Prior to extraction or processing within the Phase 57 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 58 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 58 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

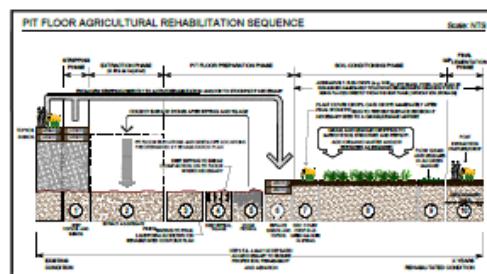
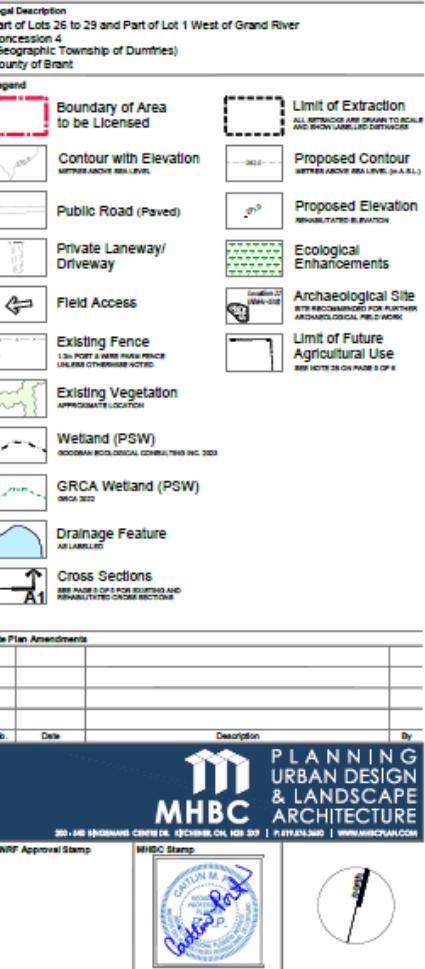
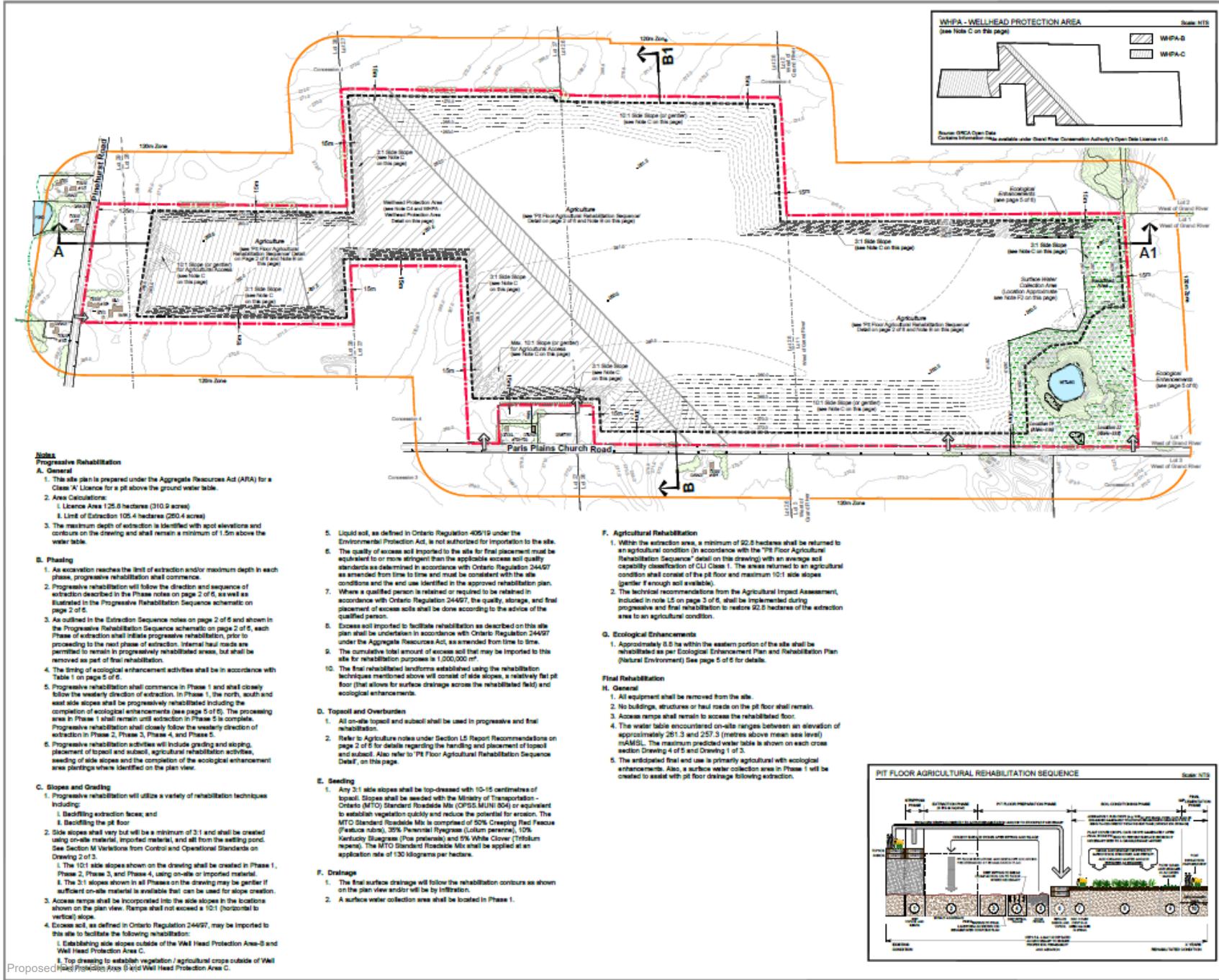
K. Phase 59 - Continued

1. Prior to extraction or processing within the Phase 60 area, R01 shall be extended to 200 m in the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extraction and processing operations within the pit while Receptor R01 is occupied.

2. During extraction or processing within the Phase 61 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 12 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

3. While R01 is occupied, extraction operations in Phase 61 within 200 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

L. Report Recommendations (cont'd)



Natural Environment Notes and Details

1. Operational Notes (see also pages 2 and 3 of 6)

A. Demarcation of Units of Disturbance

The limit of extraction shall be clearly demarcated with monument markers (e.g., metal T-bars, cedar posts, or equivalent) spaced no more than 30 m apart and all corners shall have markers installed.

In addition to Wetland W1 and Ecological Enhancement Plan (EEP) Units, the maximum distance between monument markers shall be 10 m and areas referred to as "Archaeological Area - No Disturbance" or equivalent wording shall be installed. Signage shall also state "Archaeological Area - No Disturbance", where fencing is also intended to protect Archaeological Areas. Monument markers shall be installed following the final crop harvest in a particular area, prior to site preparation for extraction.

B. SIE/Ecological Fencing

SIE/Ecological Fencing shall be installed per the layout shown page 2 of the SIE/Ecological Fencing Unit, prior to commencement of site preparation for extraction in a particular area, prior to commencement of site preparation for extraction with a native fence, prior to commencement of site preparation for extraction.

EEP/Ecological Fencing shall be heavy-duty all-fencing or Andrew's Wildlife Fencing or equivalent. The fencing shall be installed in accordance with the guidance provided in the MNR guidance document titled "Reptile and Amphibian Excavation Fencing" found at: <http://www.ontario.ca/page/reptile-and-amphibian-excavation-fencing>

SIE/Ecological Fencing may also be installed to protect and fence intended to also protect archaeological features.

The condition of the fencing shall be monitored on a regular basis and it shall be promptly repaired as necessary.

Gaps in the fencing may be temporarily created to provide access for EEP and Rehabilitation Plan activities. Any gaps in the fencing shall be promptly closed.

SIE/Ecological Fencing shall be removed as part of Final Rehabilitation activities.

C. Agricultural Use

The installation of SIE/Ecological Fencing shall occur gradually as the pit develops and in coordination with farming activities (i.e., SIE/Ecological Fencing shall be installed following the initial crop harvest in a particular area, prior to commencement of site preparation for extraction in a particular area, prior to commencement of site preparation for extraction with a native fence, prior to commencement of site preparation for extraction). The fencing shall be encouraged to continue and site preparation is required. In order to prevent future Ecological Enhancement Plan (EEP) Units from becoming infested with annual weeds over time, before they can be seeded with custom native seed mixes.

D. Timing of Tree-clearing Operations

Tree-clearing will not occur during the active period for bats and the bird breeding season, i.e., no tree-clearing between April 1 and November 30. This will avoid potential contraventions of the Migratory Bird Conservation Act, Fish and Wildlife Conservation Act and the Endangered Species Act.

E. Salvage of Woody Material, Weathered Rock, etc.

Boulders, rocks and cobble shall be salvaged from fence lines and stone piles within the extraction area. Rock material shall also be salvaged during stripping operations. This material shall be salvaged within the extraction area and/or yard area for use as part of the Ecological Enhancement Plan (EEP) and future pit rehabilitation.

Logs, stumps, root wads and branches shall be salvaged during clearing and grubbing operations. Trunks may be chipped. The salvaged woody material and logs shall be incorporated within the extraction area for use as part of the Ecological Enhancement Plan (EEP) and future pit rehabilitation.

F. Rehabilitation Notes (see also page 4 of 6)

A. Ecological Enhancement Plan (EEP) and Rehabilitation Plan

[Natural Environment] Ecological Enhancement Plan (EEP) and Rehabilitation Plan (Natural Environment) Units are provided in Tables 1, 2 and 3 on these pages. Further detail is provided in the Natural Environmental Technical Report 3 - Scoped EEP (GEOBIO Ecological Consulting Inc. (GEC) 2023).

B. Demarcation of Rehabilitation Areas (Natural Environment)

The demarcation line for the "Unit of Future Agricultural Use" is shown on the Rehabilitation Plan. The Unit of Future Agricultural Use shall be clearly demarcated with monument markers (e.g., metal T-bars or equivalent) spaced no more than 10 m apart and all corners shall have markers installed. Signage shall also state "Archaeological Area - No Disturbance" or equivalent wording shall be installed.

C. Maintenance/Tending of Plantings

Wood chip mulch and/or COCOCOAM weed control matting (min. 50 mm diameter) will be installed to control herbaceous competition around planted seedlings and to improve moisture retention.

Monitoring of the site's success is available, during the first year of establishment, plantings will be weeded during dry periods, defined as when less than 25 mm of precipitation occurs within a 14-day period between late April and early October.

D. Ecological Monitoring

Following commencement of EEP activities, an annual monitoring programme will be undertaken in order to verify that the components of the Ecological Enhancement Plan (EEP) & Rehabilitation Plan (Natural Environment) are being successfully implemented. A network of fixed-point photo-monitoring stations shall be established and monitoring shall occur several times each year (minimum of 2 visits per year during the growing season), following the completion of the Ecological Enhancement Plan (EEP) and Rehabilitation Plan (Natural Environment) and/or rehabilitation (e.g., seedling planting, tree planting, etc.). Monitoring methods will include fixed-point photography, general reconnaissance, and assessment of growth of woody plantings, custom seed mix and wildlife plug-planting as appropriate. Percent mortality of woody plantings will be assessed annually as part of the annual ecological monitoring program. Ecological Enhancement Plan (EEP) and Rehabilitation Unit that experience high mortality of plantings shall be replanted as necessary. The survival rate of woody plantings is 85% of planned to achieve a minimum of 100% survival of woody plantings. This will be substituted with species that are performing better at this site. Corrective measures will be implemented as necessary.

Ecological Enhancement Plan (EEP) Units and Rehabilitation Units will be monitored for species and management strategies will be developed and implemented as necessary.

Ecological monitoring of Wetland W1 will occur during the initial site preparation stage through the completion of Phase 1 extraction and this monitoring shall include:

- Fixed-point photography: Establishment of at least 2 photo-monitoring stations using permanent markers (e.g., metal T-bar or rebar). Fixed-point photographs shall be taken at least twice per year.

- On-site Wetland Reconnaissance: To be completed at the time of photo-monitoring events.

- Amphibian Call Survey: One (1) GONG Meter SSM or equivalent shall be deployed from early spring until June 30.

- Ecological monitoring data and photographs from Wetland W1 shall be included in the Ecological Reporting.

E. Ecological Reporting

Upon completion of all ecological enhancement activities, an ecological monitoring report shall be completed for every EEP period until final rehabilitation is complete. The 5-year ecological monitoring report shall be completed no later than June 30 following the end of the fifth year in each cycle. The ecological monitoring report shall be circulated in the MNR and County of Brant. The monitoring report shall also detail the ecological enhancement and rehabilitation activities completed by the proponent. Summary and Assessment of the components of the Ecological Enhancement Plan (EEP) & Rehabilitation Plan are being successfully implemented. The monitoring report shall also include any recommendations that may increase the success of enhancement and rehabilitation measures in subsequent years.

TABLE 1: PARIS PLAINS PIT ECOLOGICAL ENHANCEMENT PLAN (EEP) AND REHABILITATION PLAN (NATURAL ENVIRONMENT): UNIT DETAILS

Unit	Native	Area	Timing	Native Species	Planting	Native	Seed	Notes
Biological Enhancement Plan (EEP) for land that will not be harvested / Rehabilitation Management								
TP1	W1	0.00	Complete by end of Phase 1 extraction	Red Cedar, White Pine, Common Juniper, Eastern Hemlock, Eastern White Pine, Northern White Cedar	100 acres	100% EPP	NA	<ul style="list-style-type: none"> • Old-growth forest dominated by Boreal Spruce (1+), with Boreal White Spruce, Common Juniper, Eastern Hemlock, Eastern White Pine, Northern White Cedar, and other species. • Between November 1 and March 31, all Common Juniper and other woody species are removed. Between April 1 and November 30, all Common Juniper and other woody species are removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP.
Rehabilitation Plan (Natural Environment) for land that will be harvested / Rehabilitation Management								
TP1	W1	0.00	Complete by end of Phase 1 extraction	Red Cedar, White Cedar, Northern White Cedar, Eastern Hemlock, Eastern White Pine, Northern White Cedar	100 acres	100% EPP	NA	<ul style="list-style-type: none"> • Old-growth forest dominated by Boreal Spruce (1+), with Boreal White Spruce, Common Juniper, Eastern Hemlock, Eastern White Pine, Northern White Cedar, and other species. • Between November 1 and March 31, all Common Juniper and other woody species are removed. Between April 1 and November 30, all Common Juniper and other woody species are removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP.
TP1	W1	0.00	Complete by end of Phase 1 extraction	Red Cedar, White Cedar, Northern White Cedar, Eastern Hemlock, Eastern White Pine, Northern White Cedar	100 acres	100% EPP	NA	<ul style="list-style-type: none"> • Old-growth forest dominated by Boreal Spruce (1+), with Boreal White Spruce, Common Juniper, Eastern Hemlock, Eastern White Pine, Northern White Cedar, and other species. • Between November 1 and March 31, all Common Juniper and other woody species are removed. Between April 1 and November 30, all Common Juniper and other woody species are removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP.
TP1	W1	0.00	Complete by end of Phase 1 extraction	Red Cedar, White Cedar, Northern White Cedar, Eastern Hemlock, Eastern White Pine, Northern White Cedar	100 acres	100% EPP	NA	<ul style="list-style-type: none"> • Old-growth forest dominated by Boreal Spruce (1+), with Boreal White Spruce, Common Juniper, Eastern Hemlock, Eastern White Pine, Northern White Cedar, and other species. • Between November 1 and March 31, all Common Juniper and other woody species are removed. Between April 1 and November 30, all Common Juniper and other woody species are removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP. • Individual mature firs, jackpines, white pines, and other woody species shall be removed as required by the EEP.
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Traffic

- Direct access to Pinehurst Road with improvements including southbound turning lane
- Pinehurst Road is approved truck route
- No truck traffic or need for improvements to Paris Plains Church Road
- No truck traffic in front of church or cemetery
- Predicted Traffic Flow
 - 75 % travelling northbound
 - 25 % travelling southbound
- At maximum capacity, we expect up to 30 trucks (60 two-way truck movements) an hour
- Studies based on peak volumes in a given hour
- We do not anticipate these type of volumes throughout a full day of operation or every day of the operation.



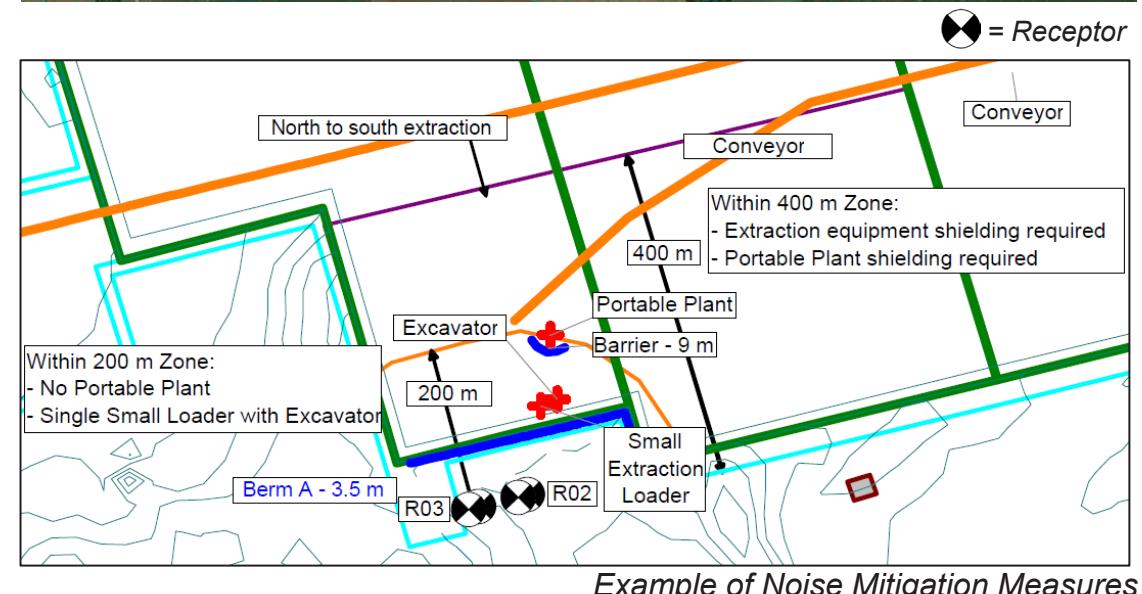
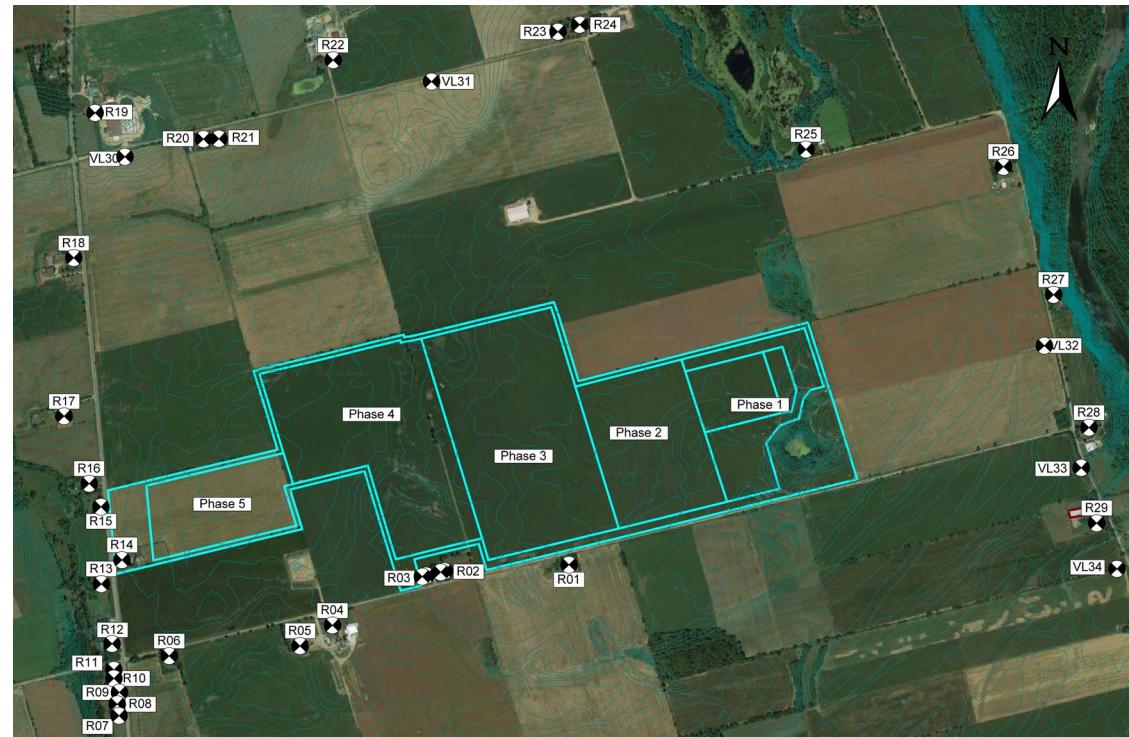
Hydrogeology and Water Quality

- Extraction will occur at least 1.5 meters above the water table
- Average 10m depth across the site
- Extracted floor will be returned to agricultural use
- 10 monitoring wells in place and have data loggers to monitor water levels. Baseline water quality measurements have also been collected
- On-site wetland/water feature will be protected and enhanced
- Mitigation measures have been developed and implemented to ensure Source Water Protection Plan
- Domestic wells are protected
- Includes baseline study of wells within 1 km of site
- Annual monitoring and report



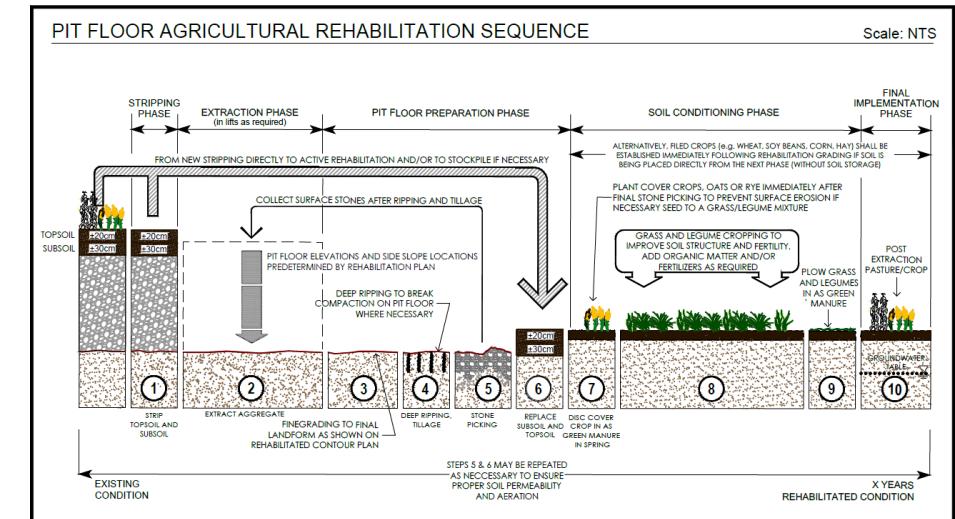
Noise and Dust

- Miller is committed to ensuring minimal noise and dust for nearby homes and businesses
- Operations will not exceed noise thresholds outlined in provincial guidelines
- Air Quality and Noise Impact mitigations will be in place, for example:
 - Additional setbacks behind church and cemetery
 - Strategic location of processing plant
 - Noise and visual berms along Paris Plains Church Rd
 - Localized equipment restrictions in specific phases/areas within site
 - Dust management plan
 - Annual noise monitoring



Proposed Rehabilitation

- Progressive and final rehabilitation back to an agricultural condition
- Includes ecological enhancements in and adjacent to Phase 1
- Use of Agricultural Rehabilitation Best Management Practices, for example:
 - Careful soil handling and storage
 - Ripping and tilling to alleviate soil compaction
 - Grading/sloping to control drainage and air flow
 - Stone picking
 - Use of soil amendments and cover crops to improve condition and fertility of soil
 - Monitoring and reporting
 - Relationship with local farmers



 The Final Rehab

BOYINGTON PIT 3

Located on the Oak Ridges Moraine, the 196-hectare Boyington Pit 3 site was awarded the OSSGA Progressive Rehabilitation Award in 2021. Owned by Miller Paving Limited (A Colas Company), the goal was to progressively return the site to agricultural use by partnering with the local agricultural community and re-establishing soil productivity.

Over six weeks in the spring of 2021, the top floor was graded via cut and fill to establish a gentle rolling landscape. Topsoil that had been stored in windrows/berms from previous strip-tilling operations was used to top-dress and provide the growing medium. Miller Paving Limited partnered with Highview Holsteins to plant areas of the site with either corn or soybean – consistent with the existing soybean, wheat and corn rotation. Twelve hecates were returned to agriculture production in 2021 and yields are being monitored for comparison to agricultural production. Miller will also continue to work with the soils to enhance the organic content and improve future yields.

OSSGA's Progressive Rehabilitation Award recognizes the ongoing efforts of individual operators in progressively rehabilitating their sites in accordance with their site plans. Overall, the OSSGA Industry Recognition Awards Program recognizes a wide range of activities that contribute to a progressive image of our members aggregate producers and the aggregate industry as a whole. A key goal is to raise the bar by highlighting operations that go above and beyond what is required by legislation.

For more information on OSSGA's Industry Recognition Awards, visit ossga.com

38 AVENUES FALL

Environmental Impact Study

Based on recommendations with respect to the extraction footprint, operational plan, Ecological Enhancement Plan (EEP) and Rehabilitation Plan (Natural Environment):

- Implement as shown on the Site Plans
- No negative effects on Endangered and Threatened species, Significant Wetlands, Fish Habitat and Significant Wildlife Habitat.
- From a natural environment perspective, the Paris Plains Pit will result in a net environmental gain
- Onsite Wetland W1 will be protected with generous buffers.
- Existing vegetation features will be enhanced and new habitats created at the east end of the site.



Figure 8
Natural Heritage Features

Paris Plains Pit
Part of Lots 26 to 29 and Part of Lot 1
West of Grand River
Concession 4
(Geographic Township of Dumfries)
County of Brant

Notes:

• Source - County of Brant 2022 Satellite Imagery
• Contains information licensed under the Open Government Licence - County of Brant

LEGEND

- Subject Site
- Limit of Extraction
- 120m Offset
- Natural Heritage System
- Wildlife Values Area
- Wetland - Evaluated (Significant)
- Wetland - Unevaluated
- DF1 Depression Feature (non-wetland)
- Woodland
- Significant Wildlife Habitat (SWH): Amphibian Breeding Habitat (Woodland)

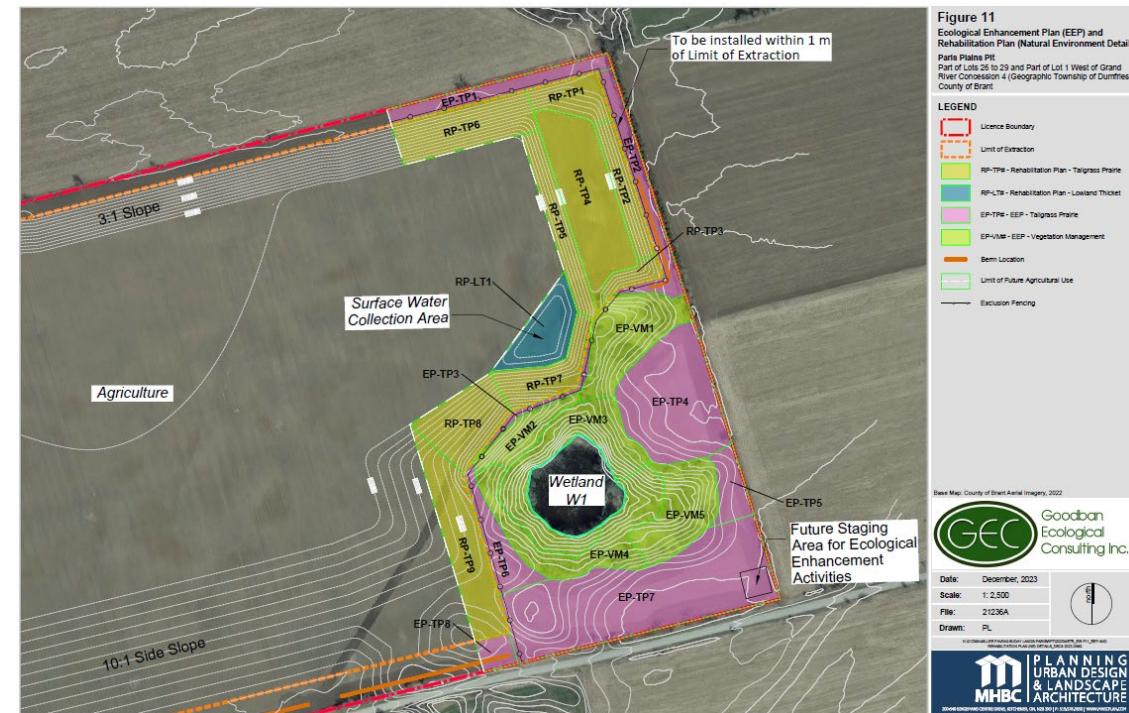
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MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE

Ecological Enhancement Plan (~ 8 ha)

Implementation of the EEP and Rehabilitation Plan (Natural Environment) will:

- Enhance existing natural and semi-natural habitats and agricultural land
- Naturalization of new rehabilitation side slopes and terraces
- Creation of a combined 8.0 ha of 'new habitats'
- Plant 1070 trees, 2210 shrubs, 3312 wildflower plugs and 750 sedgeplugs;
- Install 117 habitat features, including 102 rock piles and 15 woody debris features
- Create an ecological linkage between Wetland W1 and its related habitats and Depression Feature DF1 (north of the northeast corner)



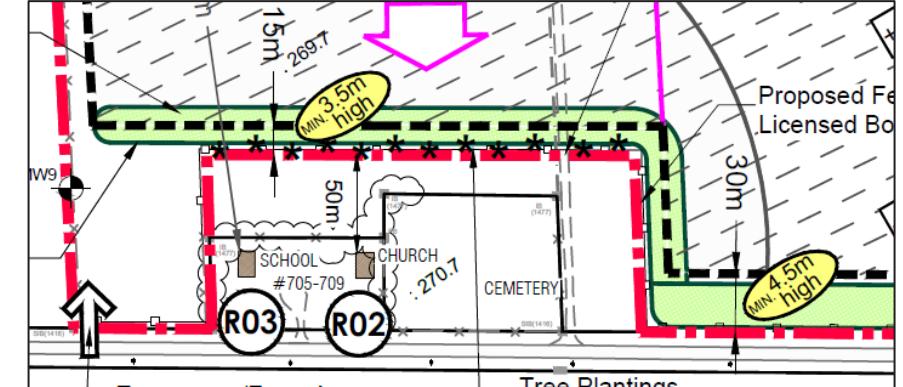
Preserving Cultural Heritage

- The proposed location is adjacent to the Paris Plains Stone Church, cemetery and Maus Schoolhouse
- Active and ongoing consultation with the Cemetery preservation group
- Engineering Structural Condition Assessment of Paris Plains Church and the Maus Schoolhouse completed in October 2022
 - Vibration monitoring plan for berm construction within 60m
- Mapping of cemetery underway in consultation with Ministry of Tourism, Culture, and Sports and Bereavement Authority of Ontario (BAO)
- Miller will ensure that no adverse effects on the buildings or cemetery
- Additional lands to be donated to the Cemetery preservation group



Cemetery donation lands

Proposed Paris Plains Pit

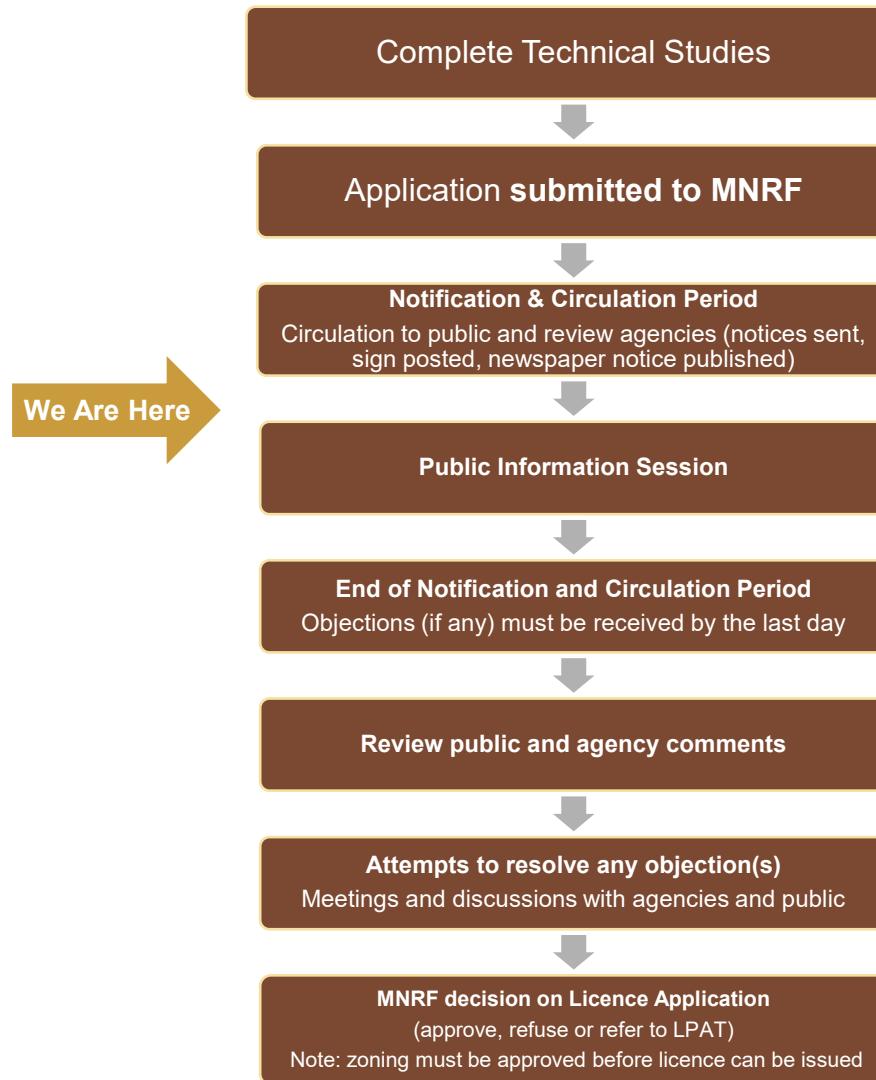


Berm around schoolhouse, church and cemetery from Site Plans

Archeology & Indigenous Consultation

- Archaeological Assessments Timeline:
 - **November/December 2021:**
 - Stage 1 & 2 Assessments of Paris Plains Property
 - **May 2022:**
 - Stage 3 Assessment of Paris Plains Property
 - **April/May 2023:**
 - Stage 1 & 2 Assessments of Pinehurst Property
- Mississaugas of the Credit First Nation, Six Nations of the Grand River Elected Council and the Haudenosaunee Confederacy Chiefs Council participated in the fieldwork and review processes
- Miller is committed to ongoing consultation with First Nations

Aggregate Resources Act Application Process



- Planning Act Application and Aggregate Resource Act Licence Application required
- Ontario's Aggregate Resources Act (ARA) is one of the most stringent aggregate application processes in the world
- The ARA sets out a comprehensive set of study requirements
- Requires detailed site plans with conditions and mitigation requirements
- Full agency review required
- Mandated public notice and consultation
- Indigenous duty to consult
- Unresolved objections (if any) decided by OLT

Public Consultation

- Committed to going above and beyond the requirements of the Planning Act for Zoning By-Law Amendment application
- ARA requires public consultation including landowner notification, notice sign, newspaper notice, Public Information Session. Applicant is required to attempt to resolve all comments received.
- One on-one-meetings with immediate neighbours ongoing to obtain feedback throughout process
- Website and handouts
- Committed to working closely with the public and all levels of government to ensure a transparent and collaborative application process



Next Steps

- Ongoing public comment period
- ARA-mandated public meeting on Thursday May 2nd from 6:00pm to 8:00pm
 - To register, email property@millergroup.ca
 - Upon registering, you will receive a confirmation email containing information about joining the webinar
- Official Public Comment Period ends **June 10th**
 - Official Comments directed to property@millergroup.ca and ARAApprovals@ontario.ca
- Review of Public and Agency comments begins
- County of Brant public meeting
- Updates will be available on our website
 - www.millergroup.ca/land-management/active-projects