

Permit No. \_\_\_\_\_  
A.I. No. 16044

STATE OF MISSISSIPPI

Application No. A1277AA

**APPLICATION TO AMEND AN EXISTING PERMIT**

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
OFFICE OF GEOLOGY / MINING & RECLAMATION DIVISION

Other permits required:	Y/N	Date
NPDES	_____	_____
State Operating Permit	_____	_____
Corps of Engineers	_____	_____
_____	_____	_____
_____	_____	_____

P. O. Box 2279  
Jackson, Mississippi 39225-2279  
(601) 961-5515  
Fax (601) 961-5521

For Office use only

City/County Approval		
Required	Yes _____	No _____
Received	Date: _____	
County	_____	
City	_____	

**A. GENERAL INFORMATION**

Existing Permit No. P00-026A Current Acreage 63 acres

1. Name of Applicant: Green Brothers Gravel Company, Inc.  
Mailing Address: 5179 Harmony Road, Crystal Springs, MS 39059  
E-mail Address: gbgc@greenbrothersgravel.com  
Phone No. 601-362-3620 Fax No. 601-981-0539  
Authorized Representative Heyward C. Green

2. Engineering Firm, Consultant, etc.: n/a

3. Name of Mine: Marx Mine Mine Supervisor: \_\_\_\_\_  
Phone No. 601-892-3611 Fax No. 601-892-3612

4. Location of Operation (to nearest quarter-quarter section):  

SE ¼ of SE ¼	33	1N	1W	Copiah
SW ¼	34	1N	1W	Copiah
	Section	Township	Range	County

5. Physical address of mine or nearest named road Highway 28

**6. Type of Amendment**

☒ Amendment to Expand Operation

☐ Amendment not involving an acreage change

**7. Method of Operation**

☒ Open Pit ☐ Strip ☐ Dredge

☐ Wash Operation, if so Water Source \_\_\_\_\_

Wash System Type ☐ Closed system ☐ Open system

8. Acres of new excavation: 3  
New haul roads, plant site,  
storage piles, etc. 3  
Total new acreage 3

Number of acres already permitted 63  
Total acres for amended permit 66

Materials to be mined Sand and gravel

9. Is the Permit Area located: Yes No  
a. within 100 feet of a public road? \_\_\_\_\_ X  
b. within 100 feet of a cemetery? \_\_\_\_\_ X  
c. within 300 feet of an occupied building? \_\_\_\_\_ X

If YES to a, b, or c, a letter must be filed with the Office giving permission from the owner or maintaining authority to mine within these distances to the subject property.

10. Has the applicant applied for, or have, any other permits or licenses that pertain to this or any other mining operation? Yes X No       

If "YES," list them in the space provided on page 5, or attach separate pages, and give the current status of each, including any violations or penalties.

## B. MINING PROCEDURE AND ENVIRONMENTAL ANALYSIS

- |  |  |
|--|--|
| 1. Description of materials:   | 2. Anticipated Schedule (month / year) |
| Thickness of overburden <u>10</u> ft.<br>(Topsoil <b>MUST</b> be stockpiled<br>for use during reclamation) | Begin clearing <u>09 / 2021</u>        |
| Thickness of useable material <u>35 - 60</u> ft.   | Begin mining <u>09 / 2021</u>          |
| Total depth of excavation <u>60</u> ft.  | Complete mining <u>09 / 2024</u>       |
| Estimated annual production <u>100,000</u> tons  | Begin reclamation <u>09 / 2022</u>     |
|  | Complete reclamation <u>09 / 2027</u>  |
3. Depth to ground water 110 ft.
4. How will dust be controlled?
- ☒ Water on haul roads
- ☐ \_\_\_\_\_
5. Types of erosion control structures that will be utilized.
- ☒ Settling ponds ☒ Drainage ditches
- ☒ Diversion berms ☒ Terraced slopes
- ☐ \_\_\_\_\_
6. Describe the land to be affected by mining as it presently exists:
- a. Land use Timber / Pasture
- b. Predominant vegetation Grass / Pine trees
7. Will explosives be used?        Yes X No
8. Is test-boring data available?        Yes X No
9. Are toxic materials likely to be encountered at any time?        Yes X No
10. Will there be discharge to local streams or other bodies of water?        Yes X No

If any of questions 7 – 10 are answered "YES," provide additional information on page 5, or attach separate pages.

## C. RECLAMATION PLAN

NOTE: It is suggested that county NCRS office be consulted for specific recommendations on the following items.

1. Describe the soil handling technique for the reclamation phase of the operation:
- ☒ Topsoil segregated ☐ Mixed strata ☐ \_\_\_\_\_
2. Describe the protection method for the stockpiled topsoil.
- ☐ berm around the storage pile
- ☒ grass cover on the pile (recommended)
- ☐ stored under a cover
- ☐ \_\_\_\_\_
3. How will highwalls, standing faces, and banks be reduced to minimize erosion? (All highwalls must be sloped, minimum 3 horizontal to 1 vertical.)
- ☐ slopes will be terraced
- ☒ sloped to a gradient of 3 to 1
- ☐ blended with surrounding contours
- ☐ \_\_\_\_\_

4. What is the general plan for reclamation?

- ☐ reforestation  
☒ establish grass cover  
☐ pond or lake  
☐ \_\_\_\_\_

5. What planting method will be used?

- ☒ broadcast seed      ☐ mechanical seeding  
☒ seeding by manual labor  
☐ \_\_\_\_\_

6. How will fertilizer and lime be applied and incorporated?

- ☒ harrowing      ☒ broadcasting      ☒ disking

7. Quantity of lime and fertilizer to be applied?

a. For initial planting

lime: 2 tons per acre

fertilizer: 13 - 13 - 13 (type) 600 pounds per acre

b. For successive years prior to 100% release

fertilizer: 13 - 13 - 13 (type) 400 pounds per acre

when: May (month)

8. Describe the planting schedule:

Tree or Seed Species	Tree Spacing or lbs./acre	Planting Season
<u>Bahagrass, Pensacola</u>	<u>30 lbs / a</u>	<u>Feb to June or Sept to Nov</u>
<u>Bermudagrass, Common</u>	<u>5 lbs / a</u>	<u>Mar to June</u>
<u>Ryegrass, Gulf</u>	<u>35 lbs / a</u>	<u>Sept to Nov</u>
_____	_____	_____

9. Will the area be mulched? \_\_\_\_\_ Yes X No If yes, rate per acre \_\_\_\_\_

Method of holding in place: ☐ crimped ☐ \_\_\_\_\_

10. How will the vegetation be maintained until the final bond release?

☐ watering

☒ mowing

times per year Once (1)

approximate month(s) between August 15 and April 15, \_\_\_\_\_

☒ repairing gullies

☒ replanting eroded areas

☐ \_\_\_\_\_

11. How will debris be disposed of when the mine is finally closed?

- ☐ burying      ☐ burning      ☒ hauling away

12. Will a soil analysis be submitted for this site? X Yes \_\_\_\_\_ No

NOTE: available from the Cooperative Extension Service through the applicant's County Agent

13. Estimated cost per acre for reclamation of this site: \$1,000 (minimum of \$1,000 per acre)

**D. NAMES AND ADDRESSES OF PERSONS AFFECTED BY THIS OPERATION**

**1. Landowner(s) of area to be mined/leased**

Name: Green Brothers Gravel Co., Inc  
Address P. O. Box 1271  
Madison, MS 39130  
Phone: (601) 362-3620

Name: Hammett Dev. Prtnrshp LP  
Address: P. O. Box 209  
Lexington, MS 39095  
Phone: (662) 834-1867

**2. Landowner(s) within 500 feet of the area**

Name: Marx, George Ramsey Jr.  
Address 330 Woodland Circle  
Brandon, MS 39047  
Phone: (601) 992-8721

Name: Red Mountain Timberco IV  
Address: c/o Resource Mgmt Svc LLC  
Post Office Box 320368  
Flowood, MS 39232-0368

Name: Denton Pernel Marx  
Address 1139 Highway 472  
Hazlehurst, MS 39083  
Phone: (601) 894-0107

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_

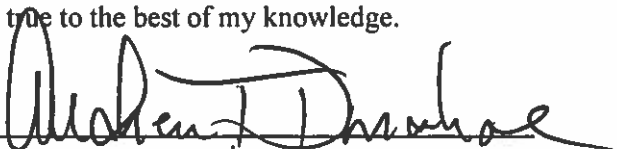
**3. Person(s) living on the permit area**

Name: \_\_\_\_\_  
Address \_\_\_\_\_  
Phone: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_

I declare that I have knowledge of the facts presented in the preceding pages and in all of the items attached to this application; furthermore, I certify that they are true to the best of my knowledge.

September 20, 2021  
date

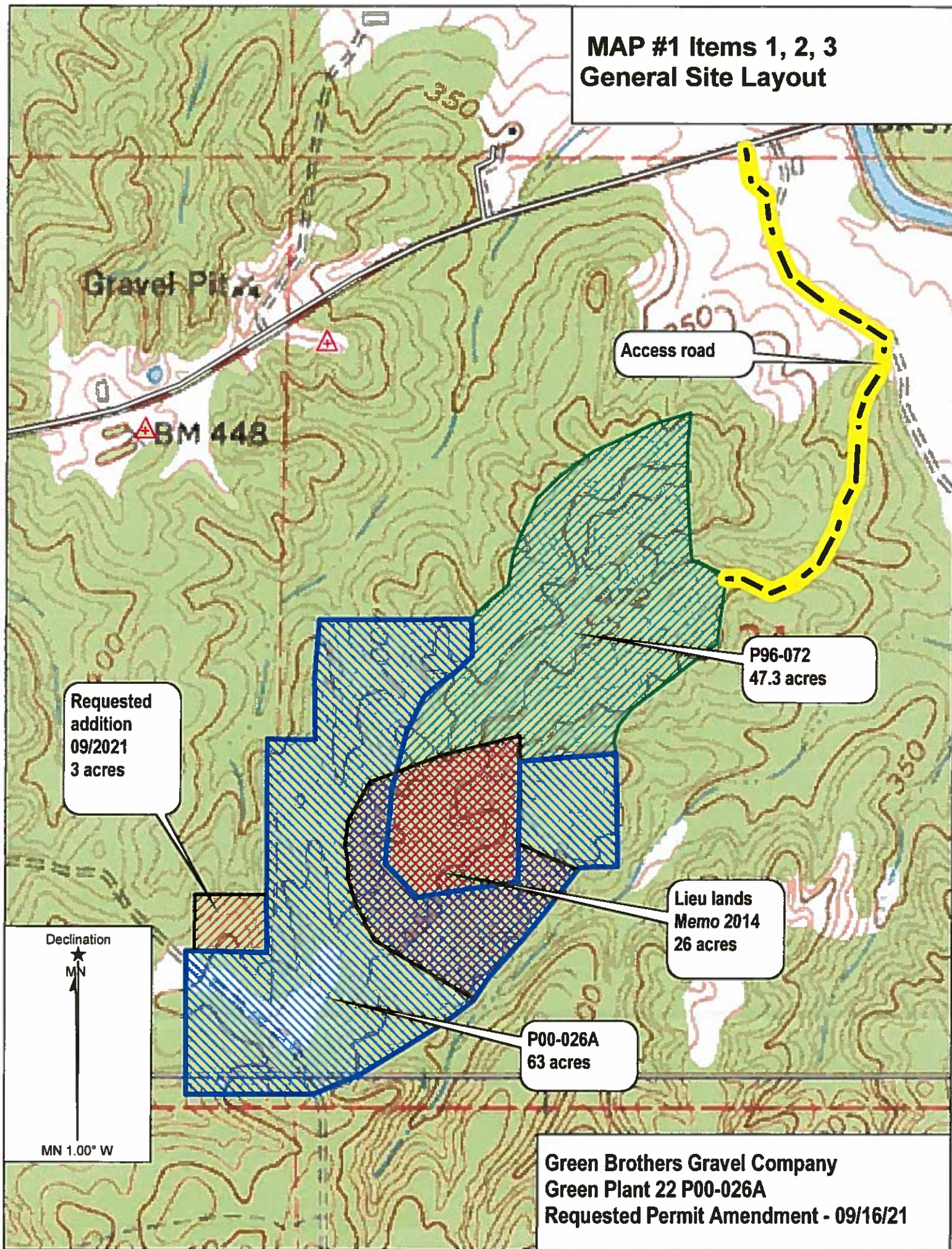
  
signature

Andrew T. Donahoe  
printed name

President  
Title

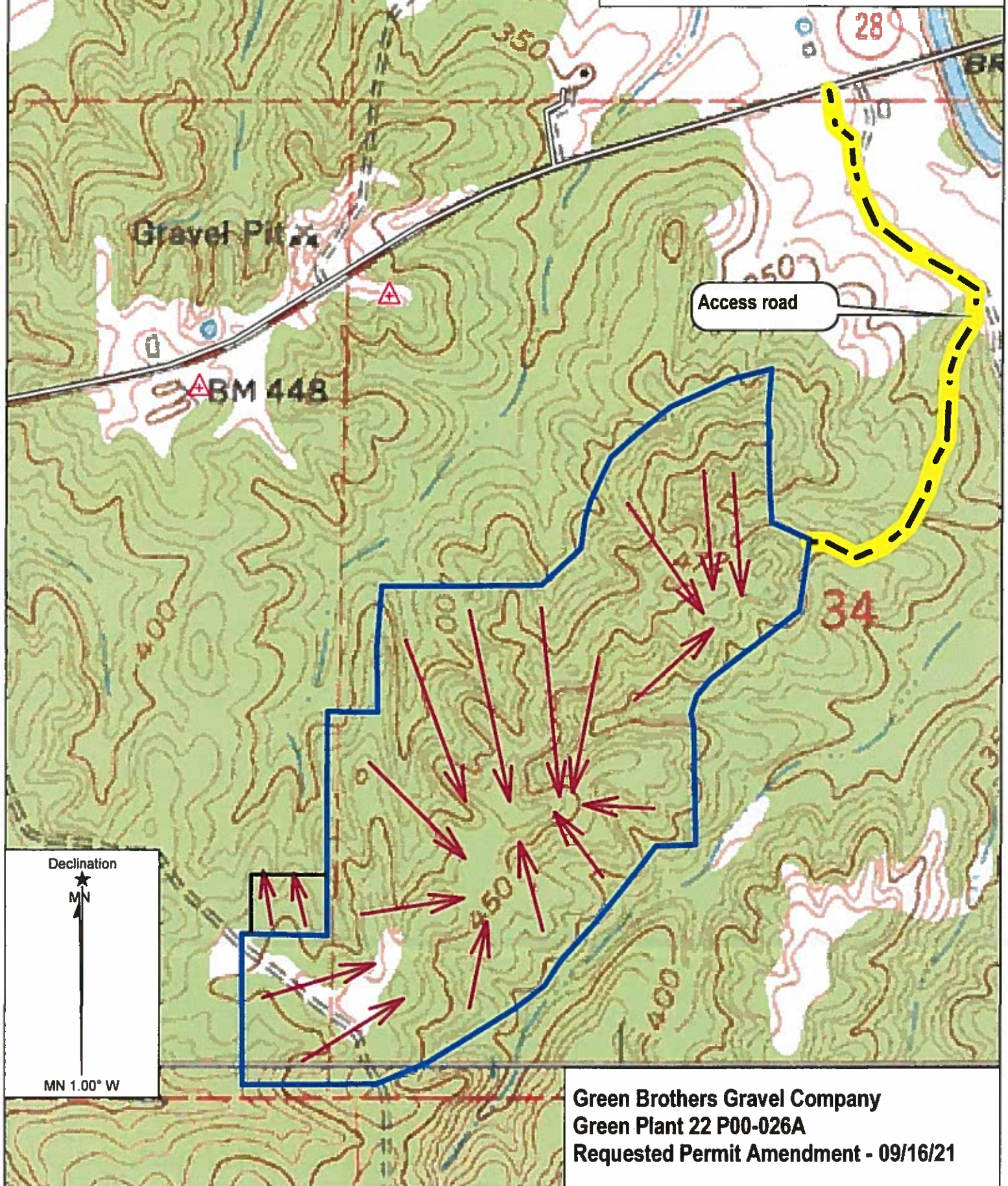


**MAP #1 Items 1, 2, 3  
General Site Layout**



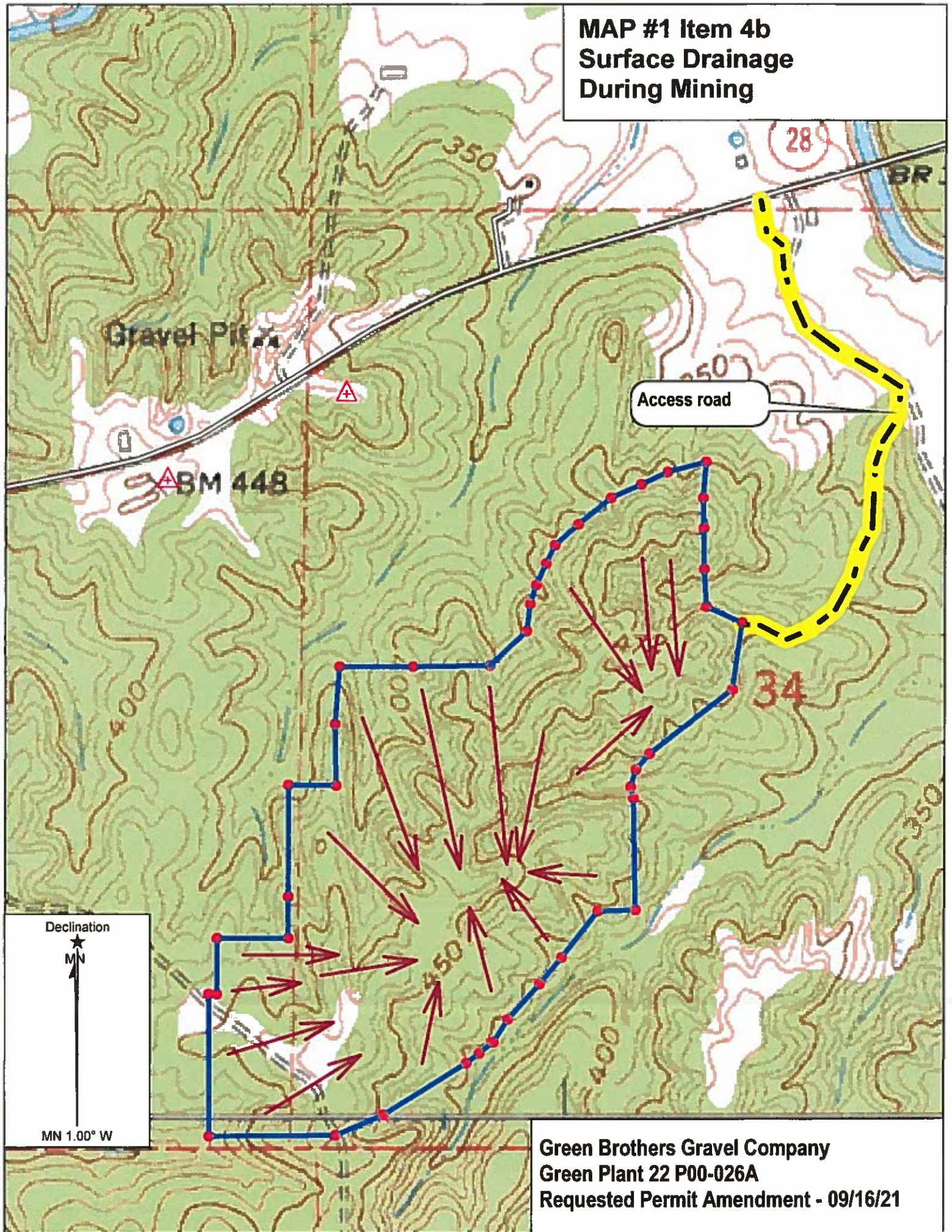


**MAP #1 Item 4a  
Surface Drainage  
Before Mining**





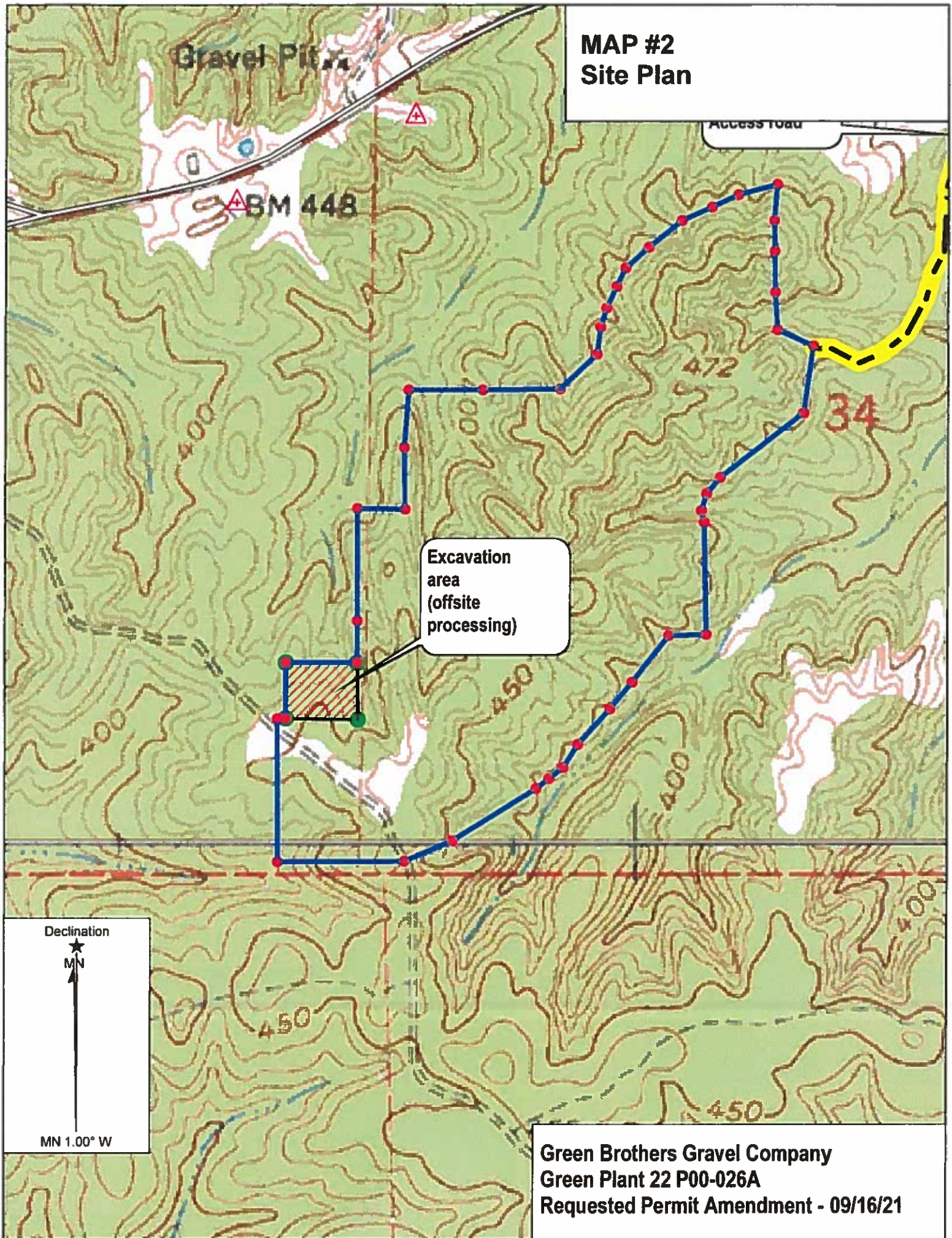
**MAP #1 Item 4b  
Surface Drainage  
During Mining**



**Green Brothers Gravel Company  
Green Plant 22 P00-026A  
Requested Permit Amendment - 09/16/21**



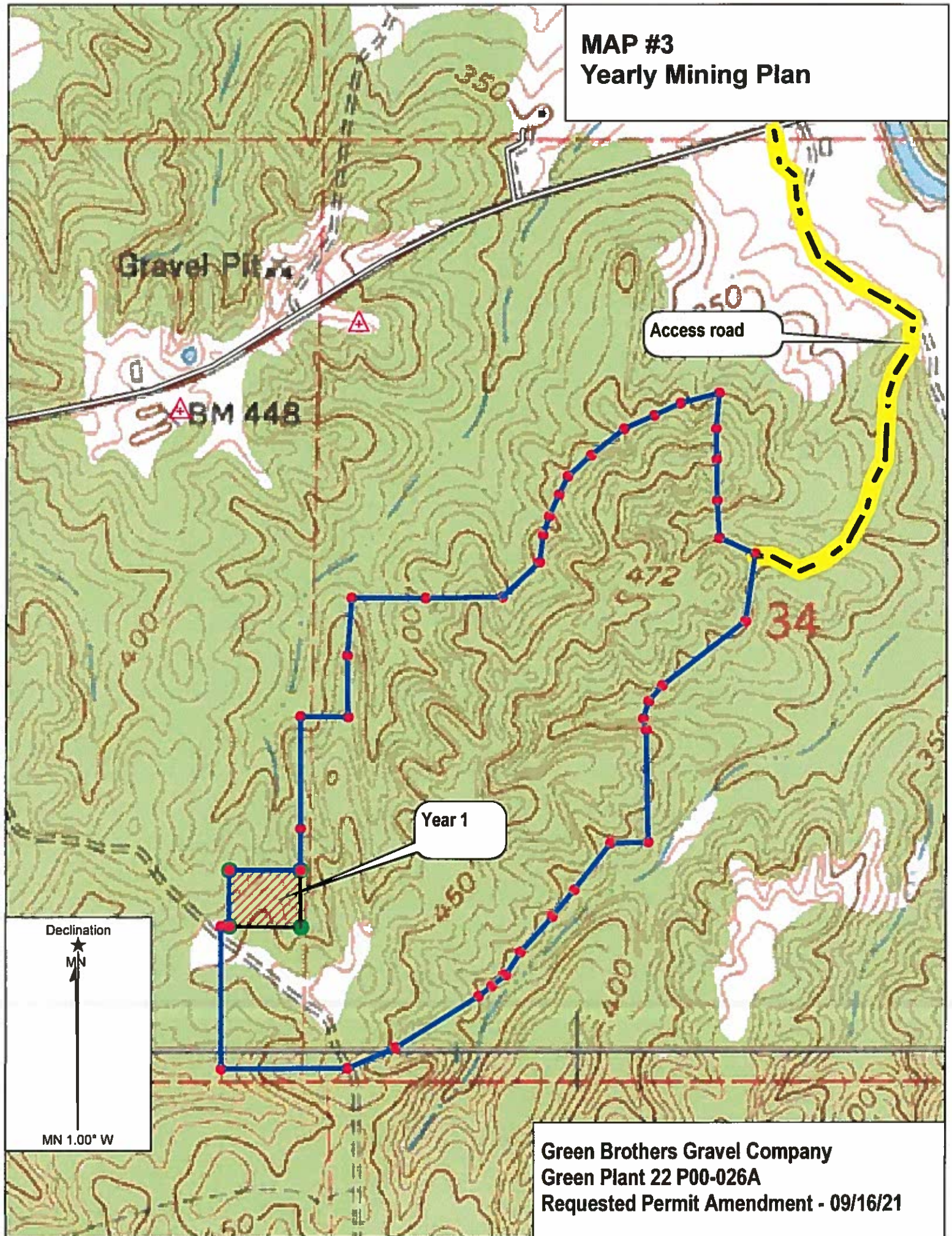
**MAP #2  
Site Plan**



**Green Brothers Gravel Company  
Green Plant 22 P00-026A  
Requested Permit Amendment - 09/16/21**



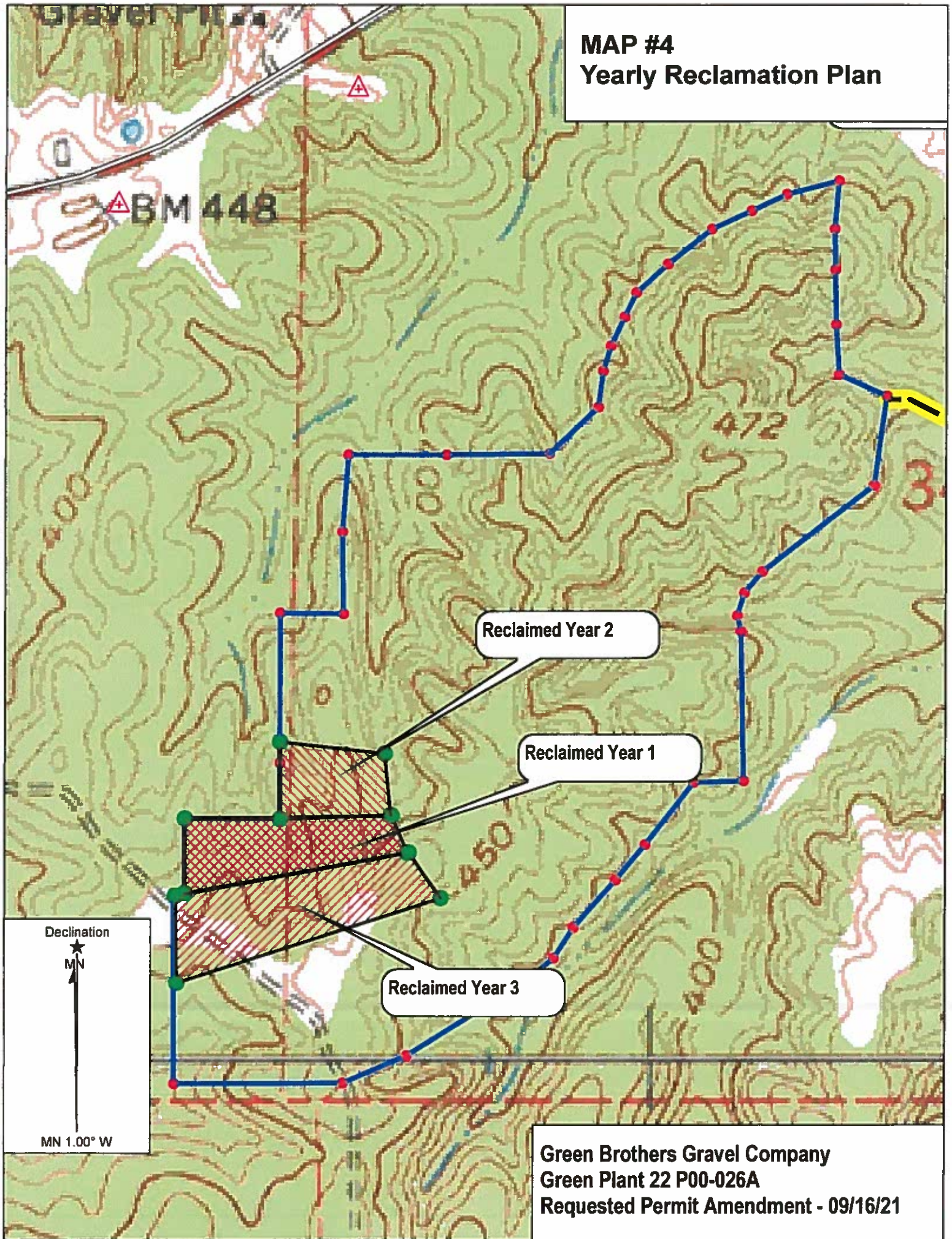
**MAP #3**  
**Yearly Mining Plan**



**Green Brothers Gravel Company**  
**Green Plant 22 P00-026A**  
**Requested Permit Amendment - 09/16/21**

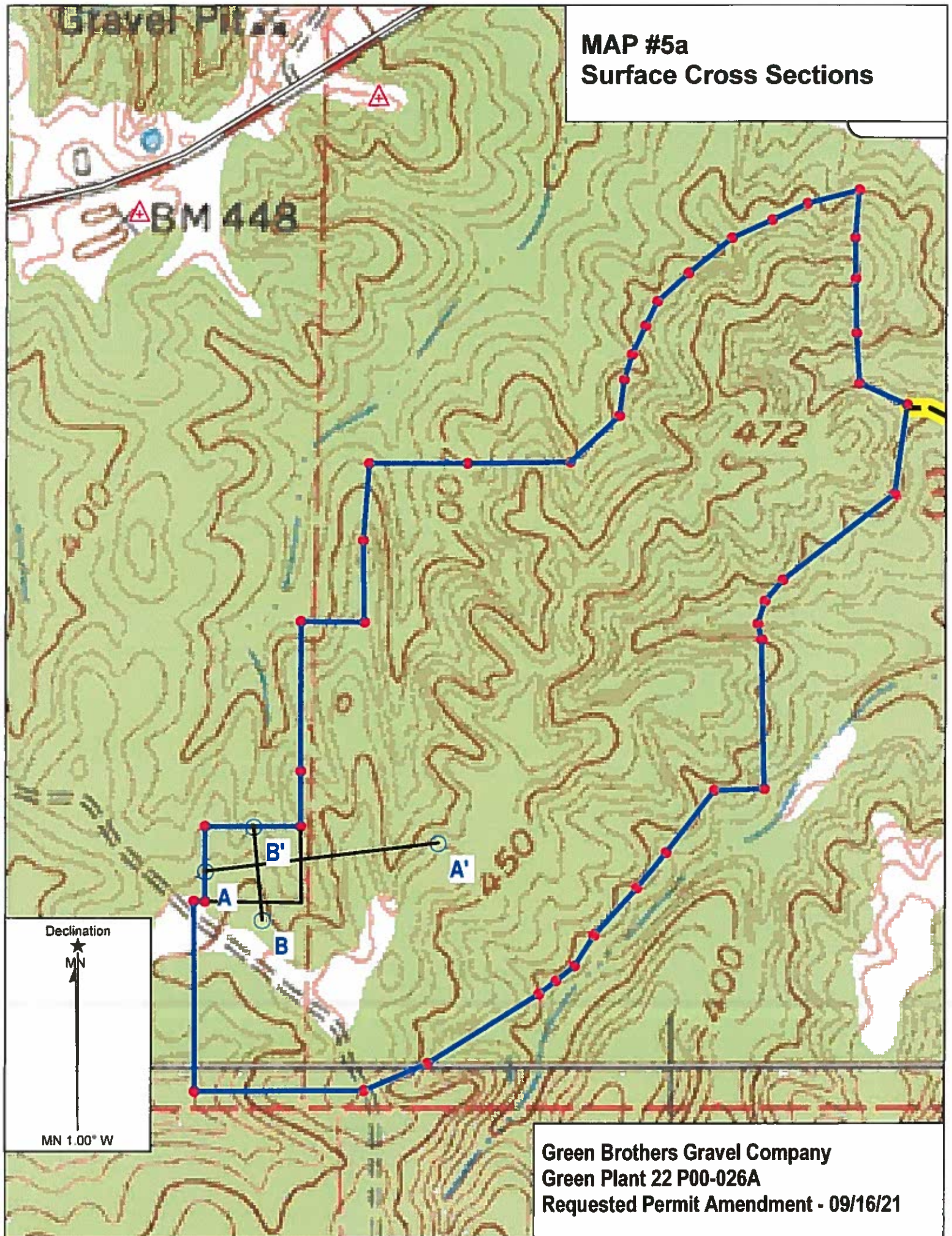


**MAP #4**  
**Yearly Reclamation Plan**





**MAP #5a**  
**Surface Cross Sections**

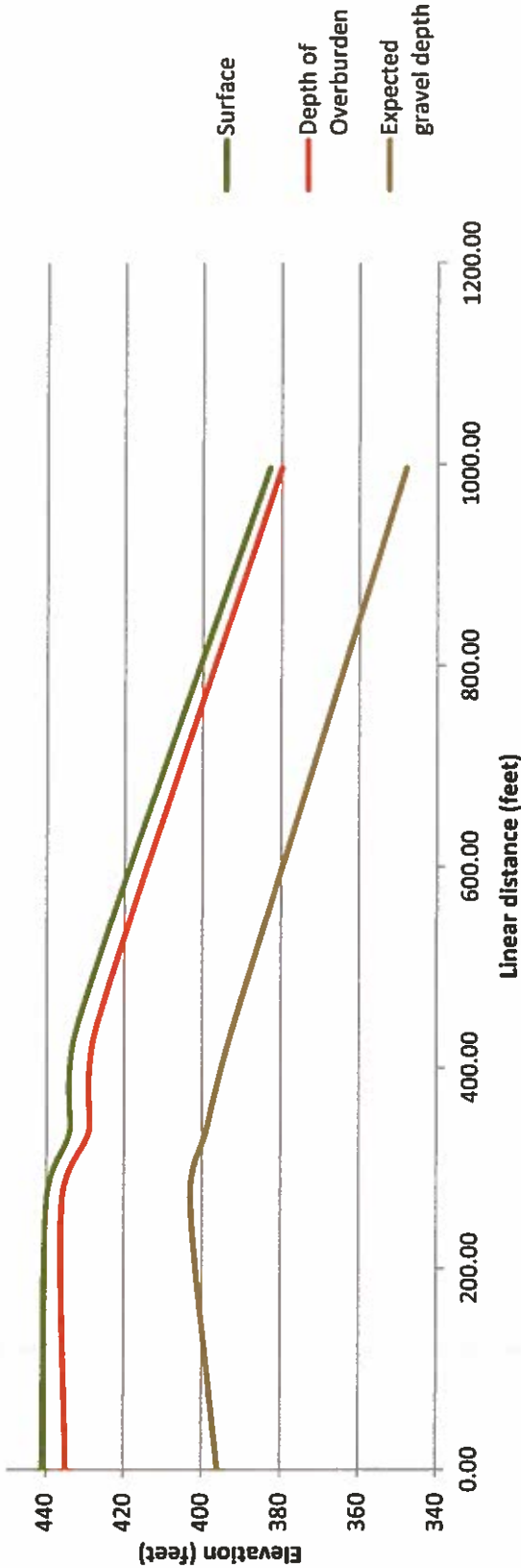


**Green Brothers Gravel Company**  
**Green Plant 22 P00-026A**  
**Requested Permit Amendment - 09/16/21**

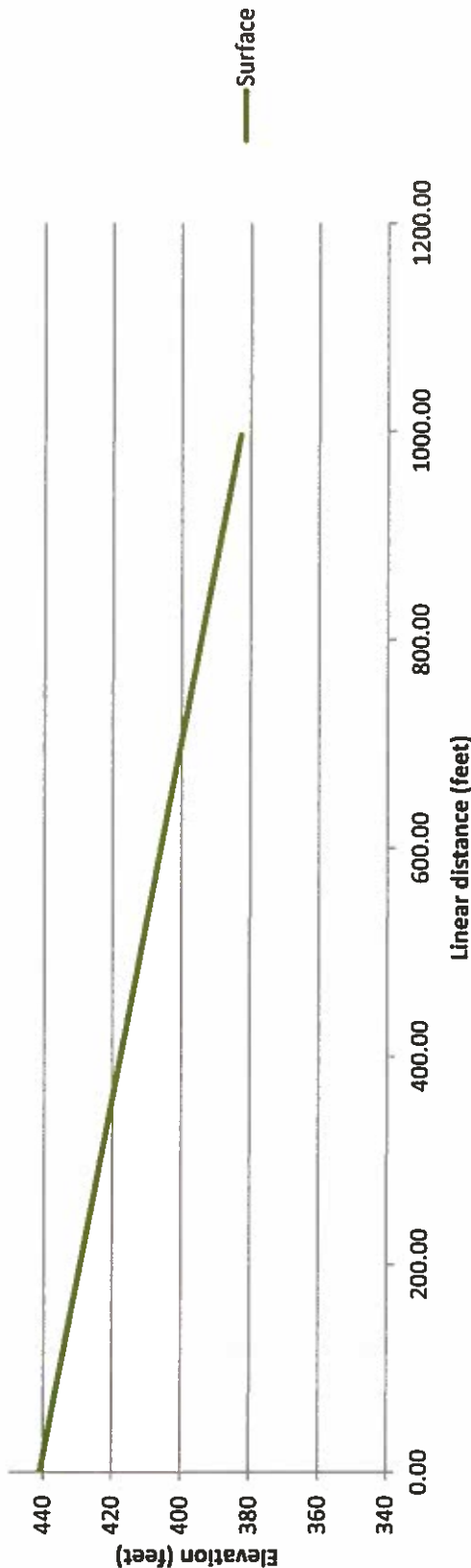


Green Brothers Gravel Company Surface Mining Permit Amendment (P00-026A)

MAP 5b - Ground Surface Profile - Section A - A1 (Pre-Mining)

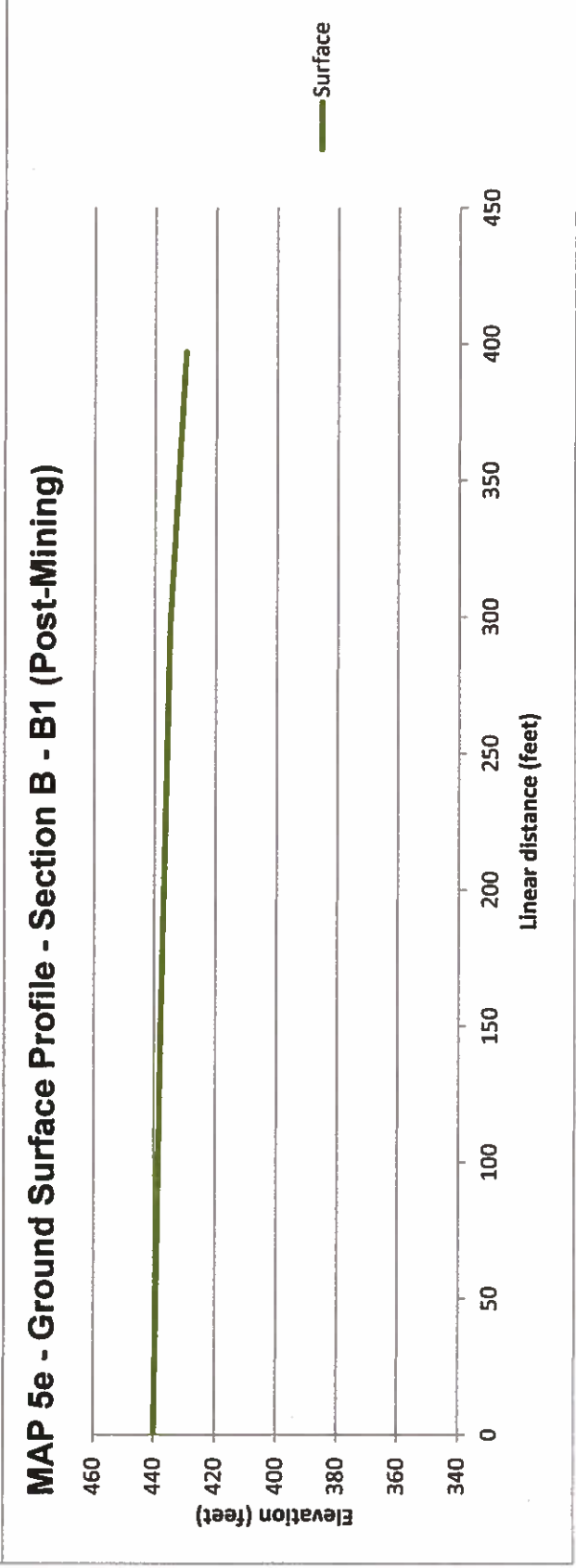
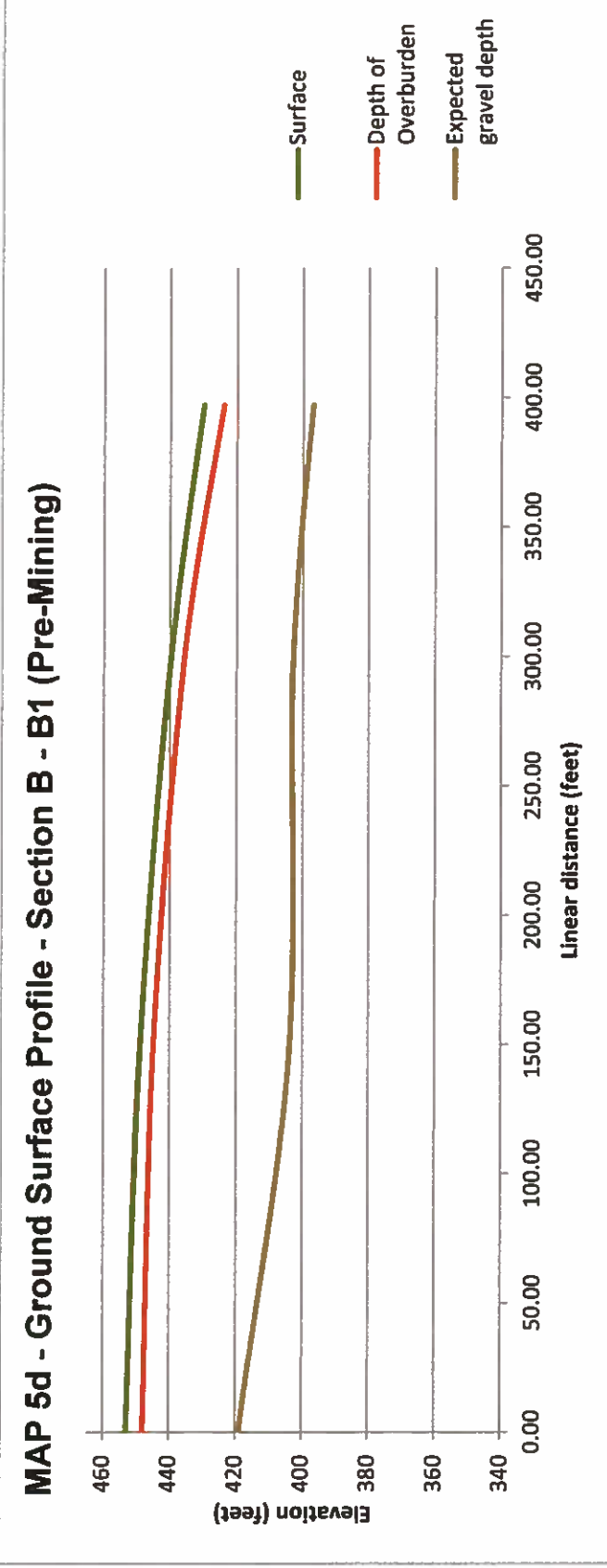


MAP 5c - Ground Surface Profile - Section A - A1 (Post-Mining)





Green Brothers Gravel Company Surface Mining Permit Amendment (P00-026A)





**MAP #6**  
**Post-mining Reclamation**

BM 448

The area will continue to be sloped to blend in with surrounding property.

The additional acreage will enable the steepness of the slopes in the areas to be reduced.

Declination



MN 1.00° W

**Green Brothers Gravel Company**  
**Green Plant 22 P00-026A**  
**Requested Permit Amendment - 09/16/21**



# MAP GPS 1 Corner GPS Coordinates

1 - 31° 52' 37.05" 90° 17' 48.88"  
2 - 31° 52' 37.05" 90° 17' 53.45"  
3 - 31° 52' 40.33" 90° 17' 53.45"  
4 - 31° 52' 40.33" 90° 17' 48.88"

Declination

★  
MN

MN 1.00° W

Green Brothers Gravel Company  
Green Plant 22 P00-026A  
Requested Permit Amendment - 09/17/21