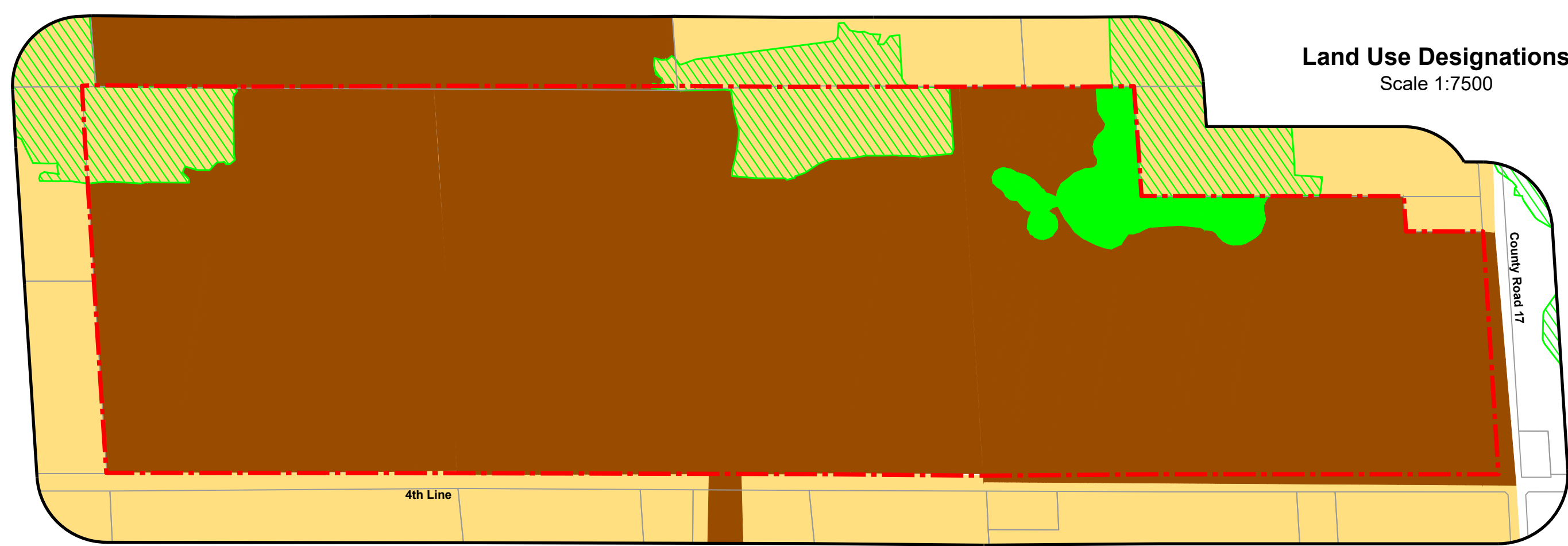


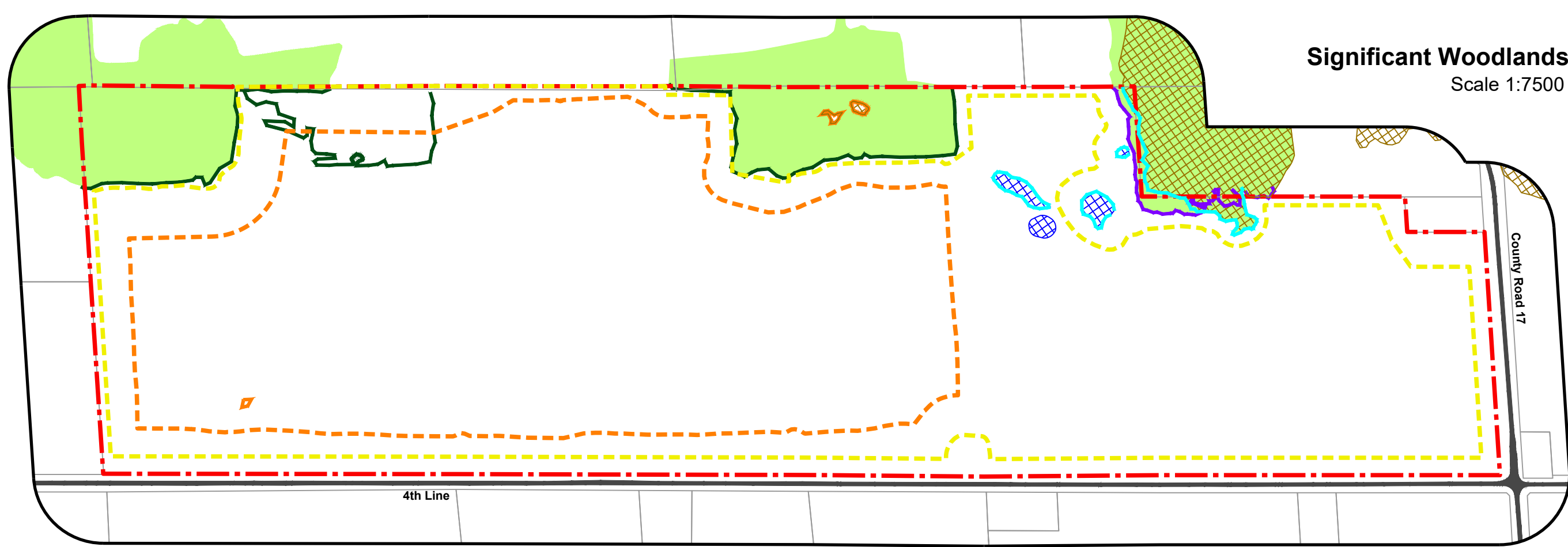
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|--|--|--|--|
| Part of West half of Lot 11, Concession 3<br>West Half of Lots 12, 13 and 14, Concession 3<br>(former geographic Township of Melancthon)<br>Township of Melancthon, County of Dufferin |  |  |  |
| Legend   |  |  |  |
|  | Licence Boundary   |  | Existing Licence Boundary                                    |
|  | Pit Limit of Extraction                                  |  | Existing Limit of Extraction                                 |
|  | Quarry Limit of Extraction                               |  | 120m Offset From Licence Boundary                            |
|  | Contours with Elevation<br>Metres above sea level (NASL) |  | Parcel Fabric  |
|  | Public Road  |  | Overhead Hydro   |
|  | Internal Haul Road                                       |  | Fence<br>1.2m post & wire fence unless otherwise noted       |
|  | Driveway   |  | Entrance / Exit<br>Operational - Solid<br>Farmhouse - Hollow |
|  | Excavation Face  |  | Gate   |
|  | Disturbed Area   |  | Direction of Surface Drainage                                |
|  | Stockpile  |  | Berm   |
|  | Processing Area  |  | Building/Structure   |
|  | Scrap Area   |  | Wetland  |
|  | Wooded Area  |  | Unevaluated Wetland  |
|  | Rehabilitated Area                                       |  | Cross Sections   |



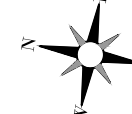
Land Use Designations



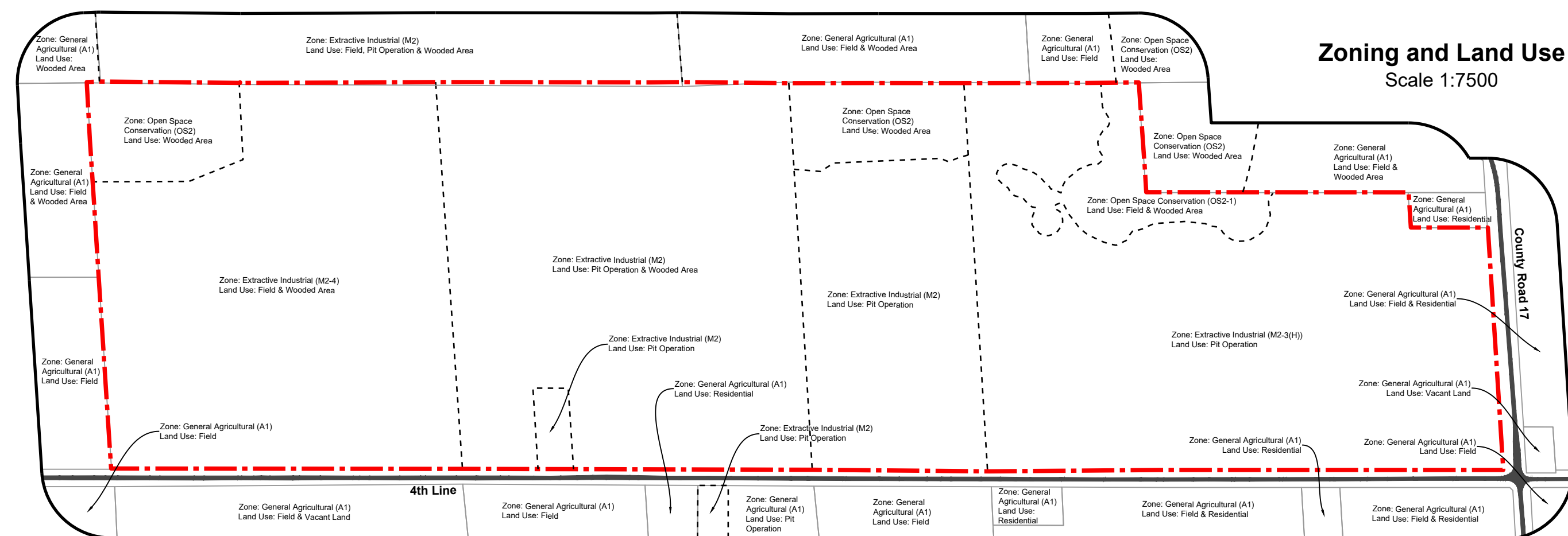
- Agriculture
- Extractive Industrial
- Environmental Protection
- Environmental Conservation
- Rural



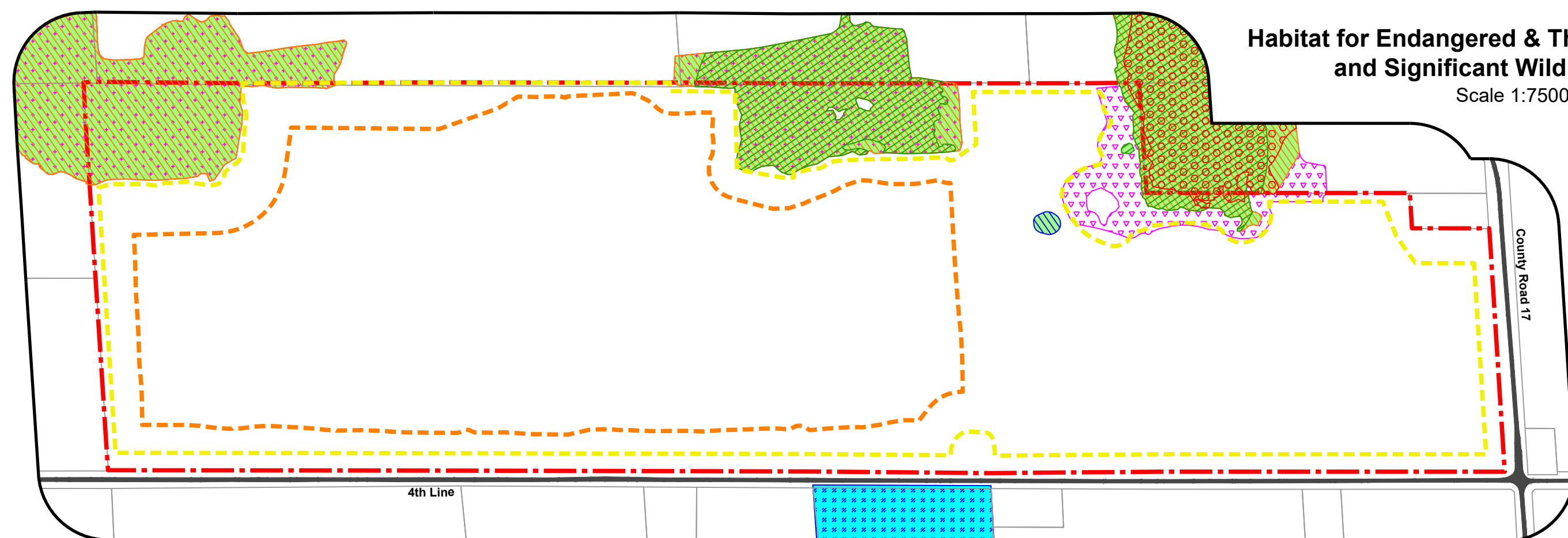
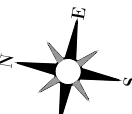
Significant Woodlands & Wetlands



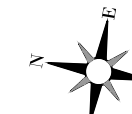
- Surveyed Dripline Boundary - 2024
- Surveyed Woodland Boundary - 2022
- Surveyed Wetland Boundary - 2024
- Surveyed Wetland Boundary - 2022
- Significant Woodland
- Wetland
- Unevaluated Wetland



Zoning and Land Use



Habitat for Endangered & Threatened Species and Significant Wildlife Habitat



- Species at Risk - Black Ash
- Species at Risk - Bobolink
- Species at Risk - Eastern Meadowlark
- Potential Species at Risk - Bat Habitat
- Significant Wildlife Habitat - Amphibian Breeding
- Significant Wildlife Habitat - Eastern Wood-Pewee
- Significant Wildlife Habitat - Grasshopper Sparrow
- Candidate Significant Wildlife Habitat - Amphibian
- Candidate Significant Wildlife Habitat - Bat Maternity

| Site Plan Acronyms |   |
|--------------------|---|
| 1.                 | ARA - Aggregate Resources Act                               |
| 2.                 | MASL - Metres Above Sea Level                               |
| 3.                 | MNR - Ministry of Natural Resources                         |
| 4.                 | MCM - Ministry of Citizenship and Multiculturalism          |
| 5.                 | MGCS - Ministry of Government and Consumer Services         |
| 6.                 | MECP - Ministry of Environment, Conservation and Parks      |
| 7.                 | PTTW - Permit to Take Water                                 |
| 8.                 | ECA - Environmental Compliance Approval                     |
| 9.                 | MAC - Maximum Allowable Concentration                       |
| 10.                | PWQO - Provincial Water Quality Objectives                  |
| 11.                | CEA - Community Engagement Agreement                        |
| 12.                | NDACT - North Dufferin Agriculture and Community Task Force |

| Site Plan Amendments |      |             |    |
|----------------------|------|-------------|----|
| No.                  | Date | Description | By |
|                      |      |             |    |
|                      |      |             |    |
|                      |      |             |    |
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| Site Plan Revisions (Pre-Licensing) |               |   |     |
|-------------------------------------|---------------|---|-----|
| 1                                   | February 2025 | Update drawing 3 of 5   | CAP |
| 2                                   | July 2025     | Update the archaeological, hydrogeological and hydrological report dates in Section J | CAP |
|                                     |               |   |     |
|                                     |               |   |     |
|                                     |               |   |     |

| No. | Date | Description | By |
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PLANNING  
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LANDSCAPE  
ARCHITECTURE

MNR Approval Stamp

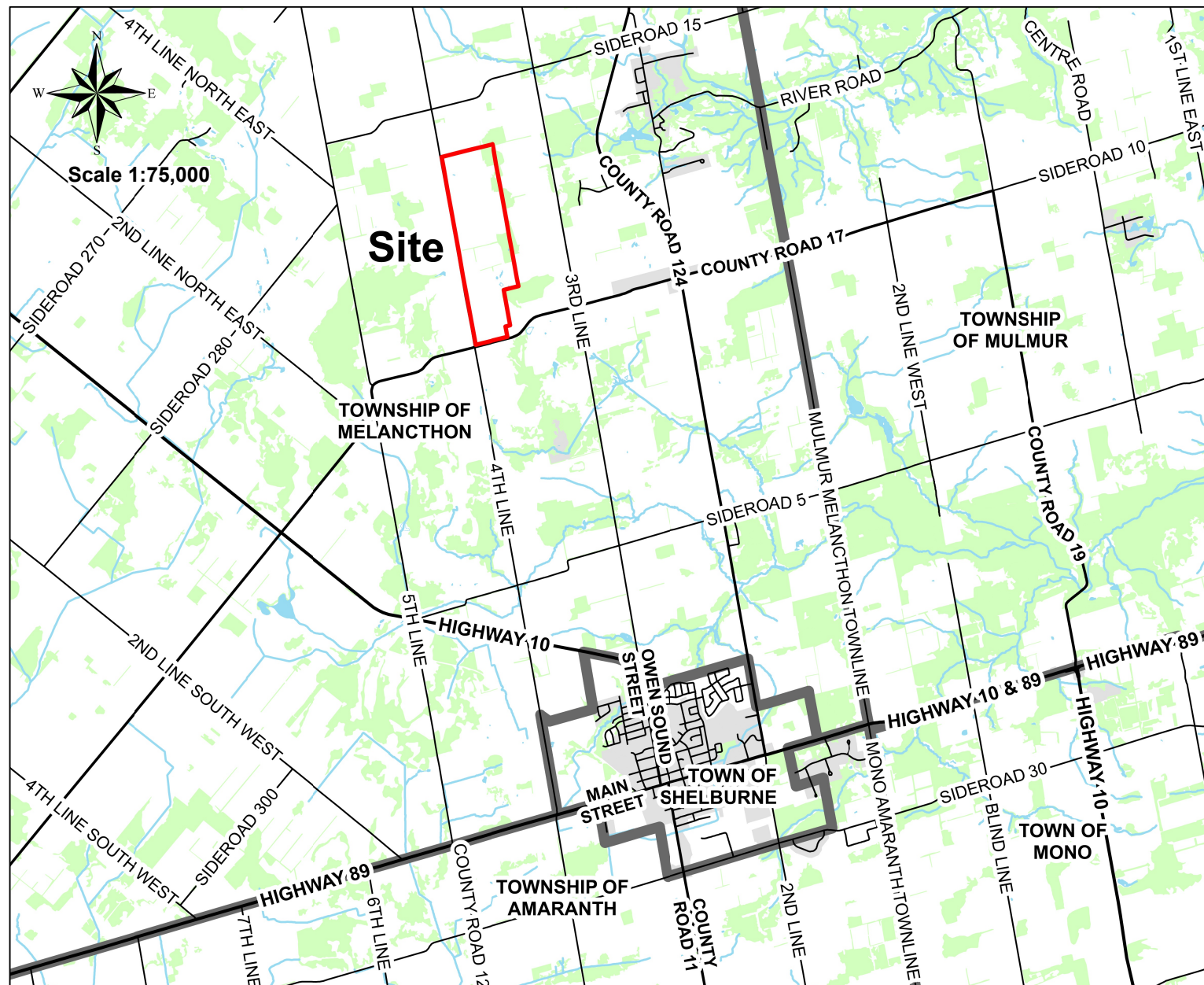
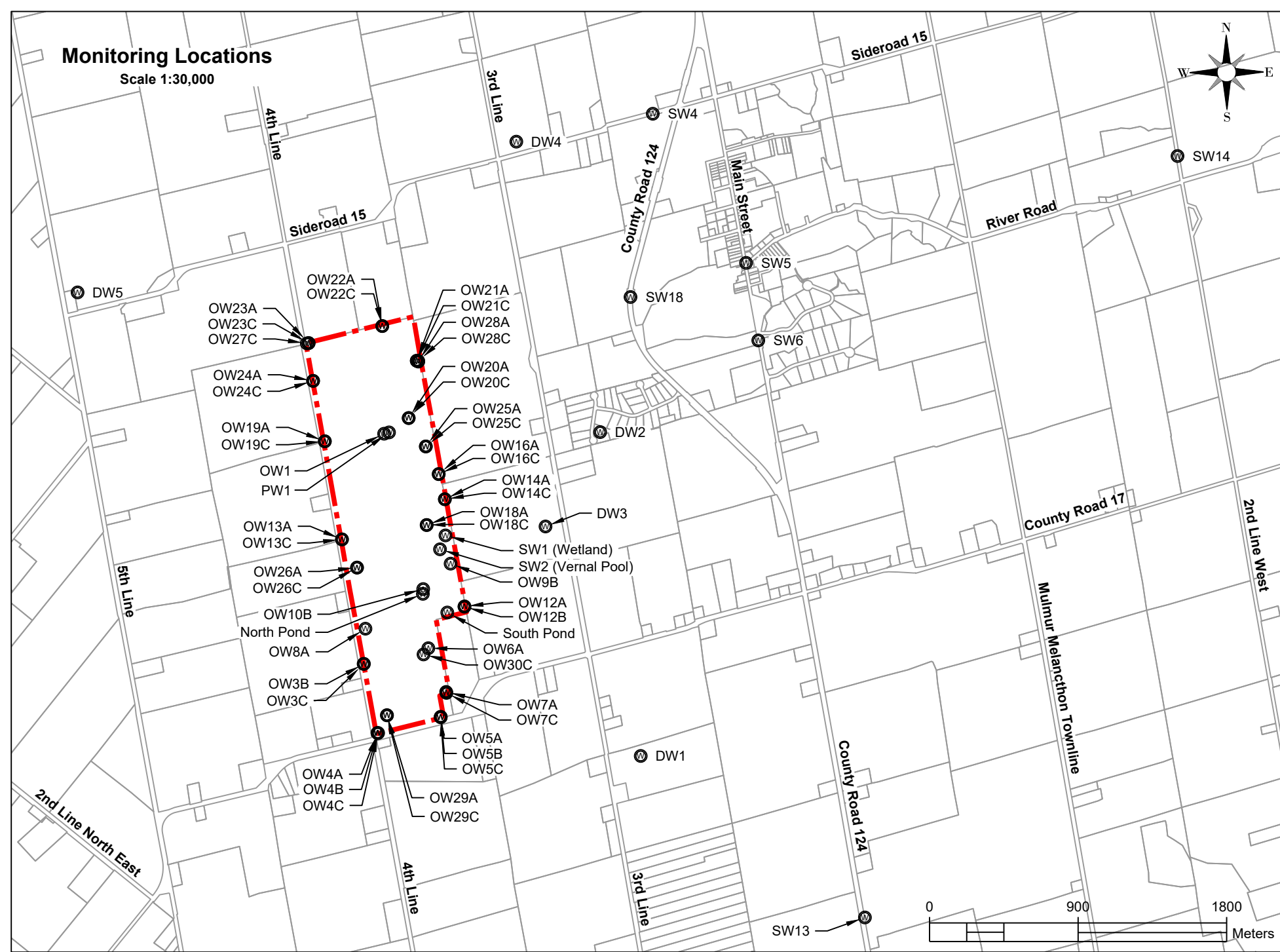
MHBC Stamp

Christopher Poole  
Is authorized by the Ministry of Natural Resources pursuant to Subsection 0.2(3)(f) of Ontario Regulation 244/07 to prepare and certify site plans.

Applicant

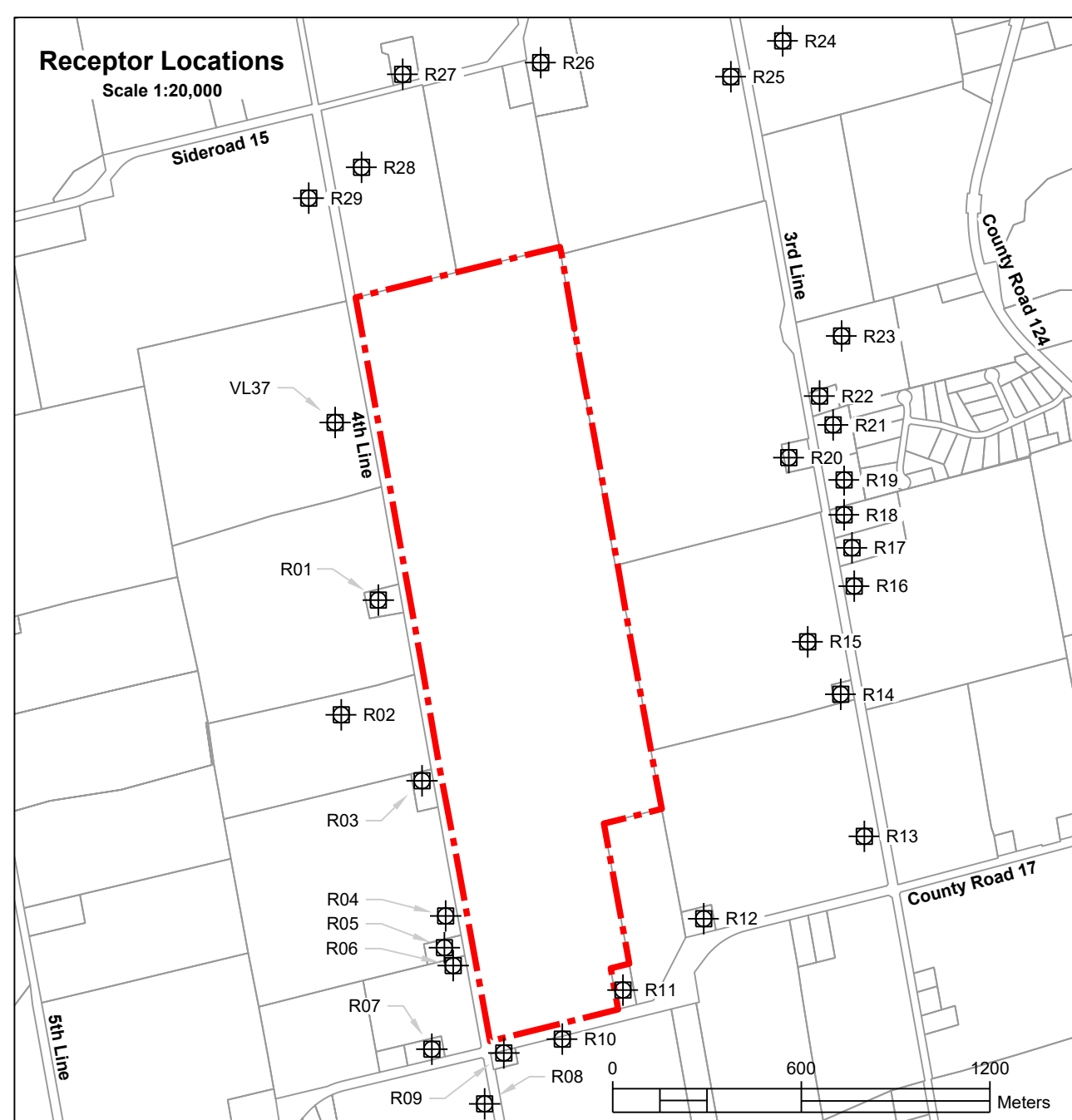
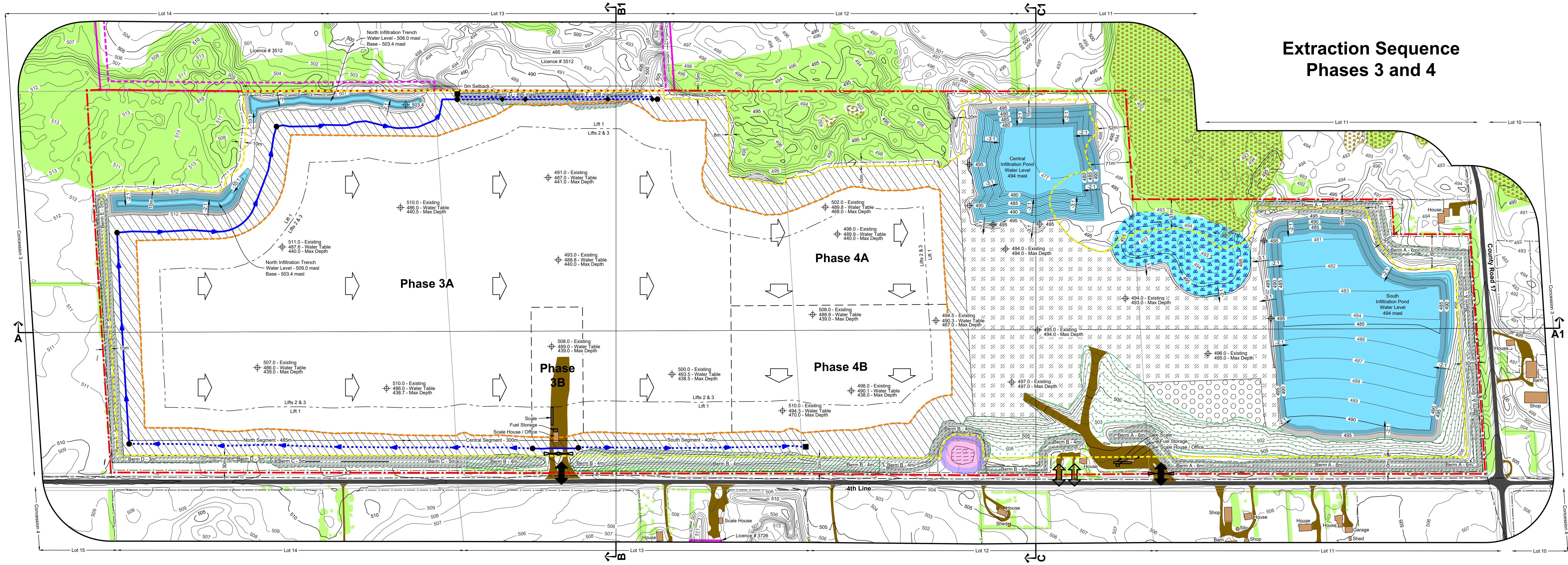
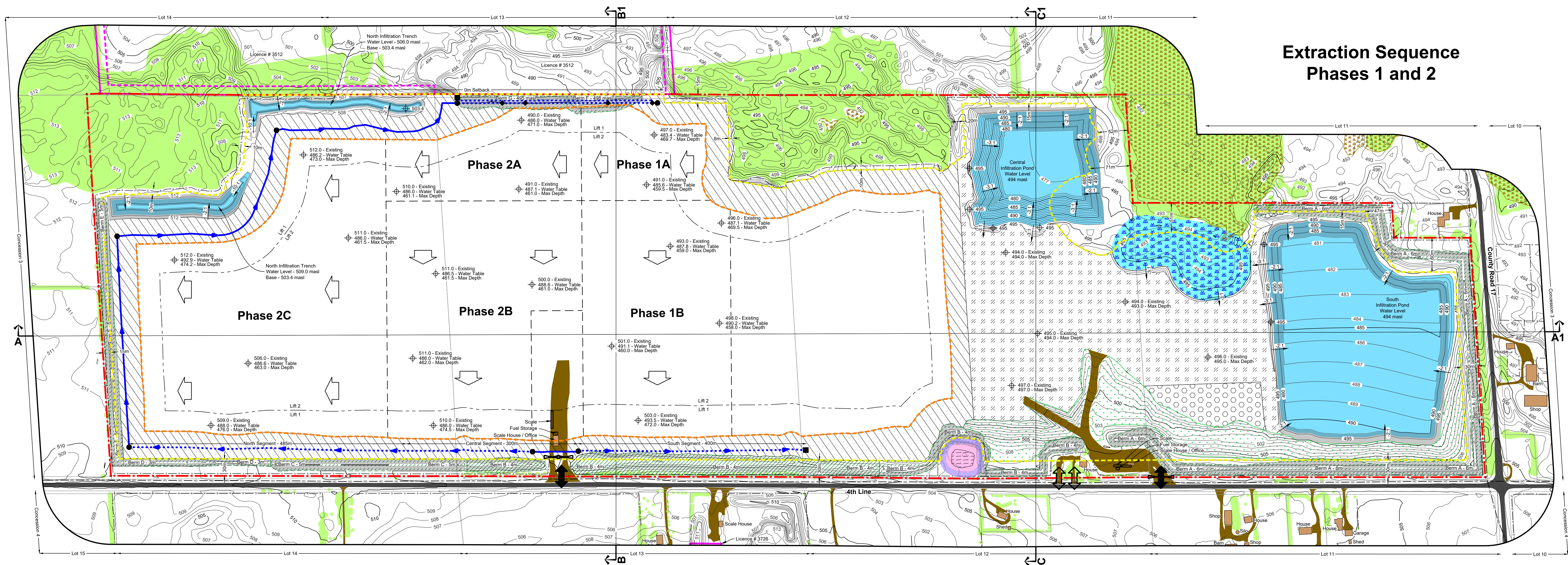
Strada Aggregates Inc.  
30 Floral Parkway  
Concord, Ontario  
L4K 4R1

| Project  |  |
|--|--|
| Strada Pit & Quarry  |  |
| 437031, 437075, 437101, 437159, 437163 & 437213 4th Line, Melancthon, Ontario, L0N 1S9 |  |
| MNR Licence Reference No.  |  |
| 626676   |  |
| Plan Scale: 1:3000 (Arch E)  |  |
| 0 0 90 180 Meters  |  |
| Drawing Name   |  |
| Existing Features  |  |
| Drawing No.  |  |
| 1 of 5   |  |
| File Path  |  |
| N:\Bian\Y349 Strada Melancthon KM File Drawings\Site Plan\CAD\Y349 - Site Plan.dwg     |  |



- A. General**
- This site plan is prepared under the Aggregate Resources Act (ARA) for a Class 'A' Licence for a pit and quarry below the groundwater table.
  - Area calculations
    - 2.1. Licence Boundary 149.0 ha
    - 2.2. Pit Limit of Extraction 123.7 ha
  - North and easting coordinates have been provided at all major corners of the licence boundary and at the centre point of every entrance and exit that intersects the licence boundary on the plan view of this drawing.
- B. References**
- Contours were obtained from the 2022 Ontario Digital Terrain Model (available through Geospatial Ontario), which is a raster data set representing the bare-earth terrain derived from a classified lidar point cloud, and are displayed in one metre intervals. Elevations shown are in metres above sea level (masl).
  - Topographic information was obtained from numerous sources including Geospatial Ontario, aerial photography captured by drone on April 7, 2022 and field investigations for technical reports.
  - All topographic features and structures are shown to scale in Universal Transverse Mercator (UTM) with North American Datum 1983 (NAD83), Zone 17 (metre), Central Meridian 81 degrees west coordinate system.
  - The licence boundary was established from:
    - A Plan of Survey by P.J. Williams dated April 26, 1972
    - A Plan of Survey by P.J. Williams dated December 14, 2001
    - A Surveyor's Real Property Report by P.J. Williams dated July 10, 2007
    - A Surveyor's Real Property Report by P.J. Williams dated May 21, 2016
    - An ARA site plan prepared by MHBC Planning dated March 28, 2012
  - Existing land use designations on and within 120 metres of the licence boundary (see Land Use Designations schematic on this drawing) was obtained from the Township of Melancthon Official Plan, Schedule A-5 - Land Use and Roads Plan, dated October 2017 and revised with Official Plan Amendment 2 dated July 5, 2018.
  - Existing zoning on and within 120 metres of the licence boundary (see Zoning and Land Use schematic on this drawing) was obtained from the Township of Melancthon Zoning By-law 12.1978 as amended by By-law 12.1982, Schedule "A" as of August 1996, and further amended by By-law 46-2003 dated November 5, 2003, By-law 9-2011 dated January 27, 2011 and By-law 34-2018 dated July 5, 2018. The licence area is currently zoned Extractive Industrial (M2), Extractive Industrial Exception (M2-30/1), Extractive Industrial Exception (M2-4), Open Space Conservation (OS2) and Open Space Conservation Exception (OS2-1).
  - Land use information identified on or within 120 metres of the licence boundary boundary (see schematic on this drawing) was determined using aerial photography captured by drone on April 7, 2022.
  - Structures identified on or within 120 metres of the licence boundary was determined using aerial photography captured by drone on April 7, 2022.
- C. Drainage**
- Surface drainage on and within 120 metres of the licence boundary is by overland flow in the directions shown by arrows on the plan view, or by infiltration.
- D. Groundwater**
- The maximum predicted water table within the limit of extraction varies between 483.0 masl and 500.0 masl and is shown in each cross section on drawing 5 of 5.
- E. Site Access and Fencing**
- Two operational access points exist on 4th Line in the locations shown on the plan view. There are also two access points for the farmhouse located on Lot 12, Concession 3 on 4th Line.
  - Post and wire fencing exists in the locations shown on the plan view.
- F. Significant Natural Features Within 120 Metres**
- There are significant woodlands, non-provincially significant wetlands, unevaluated wetlands, significant wildlife habitat and habitat for endangered and threaten species as determined by Natural Resource Solutions Inc. within the licence boundary (see Key Natural Heritage Features schematic on this drawing).
  - There are significant woodlands, non-provincially significant wetlands, unevaluated wetlands, significant wildlife habitat and habitat for endangered and threaten species as determined by Natural Resource Solutions Inc. outside the licence boundary within 120 metres (see Key Natural Heritage Features schematic on this drawing).
- G. Significant Human-Made Features Within 120 Metres**
- There are two licensed pits within 120 metres of the licence boundary. Licence # 3512 is in part of the east half of Lots 13 and 14, Concession 3 while Licence # 3728 is in part of the east half of Lot 13, Concession 4.
- H. Aggregate Related Site Features**
- There are existing aggregate operations and features on-site such as processing areas with portable equipment, stockpiles, scrap, haul roads, fuel storage, berms and excavation faces as shown on the plan view of this drawing.
- I. Cross Sections**
- Cross sections depicting existing conditions are shown on drawing 5 of 5.
  - Cross sections depicting post rehabilitation conditions are shown on drawing 5 of 5.
  - Cross section locations are identified on the plan view of drawings 1, 2 and 4 of 5.
- J. Technical Reports - References**
- Agricultural Impact Assessment, Strada Pit/Quarry, MHBC, August, 2024.
  - Air Quality Assessment, Strada Pit/Quarry, RWDI, June 14, 2024.
  - Blast Impact Analysis, Strada Pit and Quarry, Exploitech, May 6, 2024.
  - Cultural Heritage Screening Report, Strada Pit/Quarry, MHBC, August 27, 2024.
  - Level 1 and 2 Hydrogeological and Hydrological Assessment, Strada Pit/ Quarry, Tatham Engineering, June 26, 2025.
  - Natural Environment Report, Strada Pit/Quarry, Natural Resource Solutions Inc., dated October, 2024.
  - Noise Impact Study, Strada Pit/Quarry, Aerocoustics Engineering Ltd., May 17, 2024.
  - Stage 1 Archaeological Assessment of Strada Aggregates Existing Melancthon Pit, ASI, March 14, 2025.
  - Traffic Impact Study, Strada Pit and Quarry, HDR Inc, August 20, 2024.





**Table 1A: Closest Sensitive Receptors**

| Sensitive Receptor    | Straight Line Distance From Licence Boundary to Receptor (m) | Straight Line Distance From Quarry Limit of Extraction to Receptor (m) | Receptor ID |
|-----------------------|--|--|-------------|
| 477084 3rd Line       | 540  | 570  | R15         |
| 477148 3rd Line       | 500  | 610  | R20         |
| 477274 3rd Line       | 780  | 1020   | R25         |
| 437020 4th Line       | 70   | 700  | R08         |
| 437032 4th Line       | 90   | 630  | R05         |
| 437044 4th Line       | 65   | 540  | R04         |
| 437056 4th Line       | 65   | 145  | R03         |
| 437134 4th Line       | 275  | 350  | R02         |
| 437148 4th Line       | 100  | 160  | R01         |
| 437274 4th Line       | 340  | 425  | R09         |
| 437281 4th Line       | 305  | 460  | R28         |
| 625172 Side Road 15   | 650  | 720  | R27         |
| 625208 Side Road 15   | 580  | 620  | R26         |
| 585165 County Road 17 | 45   | 960  | R10         |
| 585189 County Road 17 | 15   | 865  | R11         |

**Table 1B: Closest Sensitive Receptors**

| Sensitive Receptor    | Straight Line Distance From Licence Boundary to Receptor (m) | Straight Line Distance From Quarry Limit of Extraction to Receptor (m) | Receptor ID |
|-----------------------|--|--|-------------|
| 585021 County Road 17 | 245  | 720  | R12         |
| 585121 County Road 17 | 187  | 674  | R07         |
| 438574 4th Line       | 200  | 1130   | R06         |
| 585142 County Road 17 | 47   | 941  | R09         |
| 477018 3rd Line       | 650  | 950  | R13         |
| 477058 3rd Line       | 626  | 798  | R14         |
| 477081 3rd Line       | 730  | 784  | R16         |
| 477107 3rd Line       | 744  | 779  | R17         |
| 477125 3rd Line       | 738  | 758  | R18         |
| 477133 3rd Line       | 758  | 777  | R19         |
| 477151 3rd Line       | 754  | 779  | R21         |
| 477181 3rd Line       | 728  | 764  | R22         |
| 477185 3rd Line       | 830  | 810  | R23         |
| 477285 3rd Line       | 966  | 1235   | R24         |
| 437202 4th Line       | 135  | 204  | VL37        |

**Legal Description**  
Part of West half of Lot 11, Concession 3  
West Half of Lots 12, 13 and 14, Concession 3  
(former geographic Township of Melancthon)  
Township of Melancthon, County of Dufferin

**Legend**

- Licence Boundary
- Pit Limit of Extraction
- Quarry Limit of Extraction
- Contours with Elevation
- Public Road
- Driveway
- Water Feature
- Wooded Area
- Rehabilitated Area
- Wetland
- Unevaluated Wetland
- Processing and Stockpiling Area
- Recycling and Scrap Area
- 2:1 Side Slopes to Top of Bedrock
- Arch. Site BaHb-17 Stage 2 Limit
- Arch. Site BaHb-17 Stage 3 Limit
- Arch. Site BaHb-17 10m Offset from Stage 3 Limit
- Existing Licence Boundary
- Existing Limit of Extraction
- 120m Offset From Licence Boundary
- Parcel Fabric
- Overhead Hydro
- Fence
- Entrance / Exit
- Gate
- General Direction of Excavation & Boundary
- Berm
- Building/Structure
- Spot Elevation
- Pond Side Slope
- Buried Tile Drain
- Injection Well
- Inspection Port
- Pump Station
- Cross Sections

**Typical Acoustic Berm**  
N.T.S.

**Site Plan Acronyms**

- ARA - Aggregate Resources Act
- MASL - Metres Above Sea Level
- MNR - Ministry of Natural Resources
- MCM - Ministry of Citizenship and Multiculturalism
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- CEA - Community Engagement Agreement
- NDACT - North Dufferin Agriculture and Community Task Force

**Site Plan Amendments**

| No. | Date | Description | By |
|-----|------|-------------|----|
|     |      |             |    |
|     |      |             |    |
|     |      |             |    |

**Site Plan Revisions (Pre-Licensing)**

| No. | Date          | Description  | By  |
|-----|---------------|--|-----|
| 1   | February 2025 | Update drawing 3 of 5  | CAP |
| 2   | July 2025     | Add fencing along the wooded boundaries within Lots 12 and 14, Concession 3, within the licence boundary | CAP |
|     |               |  |     |
|     |               |  |     |

**MHBC**  
PLANNING  
URBAN DESIGN &  
LANDSCAPE  
ARCHITECTURE  
113 COLLIER STREET, BARCEL, ON, L4N 3H3 (P: 905.733.0915) WWW.MHBCPLAN.COM

**MNR Approval Stamp**

**MHBC Stamp**

Christopher Poole  
Is authorized by the Ministry of Natural Resources pursuant to Subsection 0.2(3)(f) of Ontario Regulation 244/07 to prepare and certify site plans.

Applicant

**STRADA AGGREGATES**  
Strada Aggregates Inc.  
30 Floral Parkway  
Concord, Ontario  
L4K 4R1

**Project**  
**Strada Pit & Quarry**  
437159 4th Line, Melancthon, Ontario, L0N 1S9

|                           |                       |
|---------------------------|-----------------------|
| MNR Licence Reference No. | Applicant's Signature |
| 626676                    | <i>[Signature]</i>    |

|                             |           |
|-----------------------------|-----------|
| Plan Scale: 1:3000 (Arch E) | Date      |
| 0 90 180 Meters             | July 2025 |
| Drawn By                    | File No.  |
| C.P.                        | Y3491     |
| Checked By                  |           |
| B.Z.                        |           |

**Drawing Name**  
**Operational Plan**

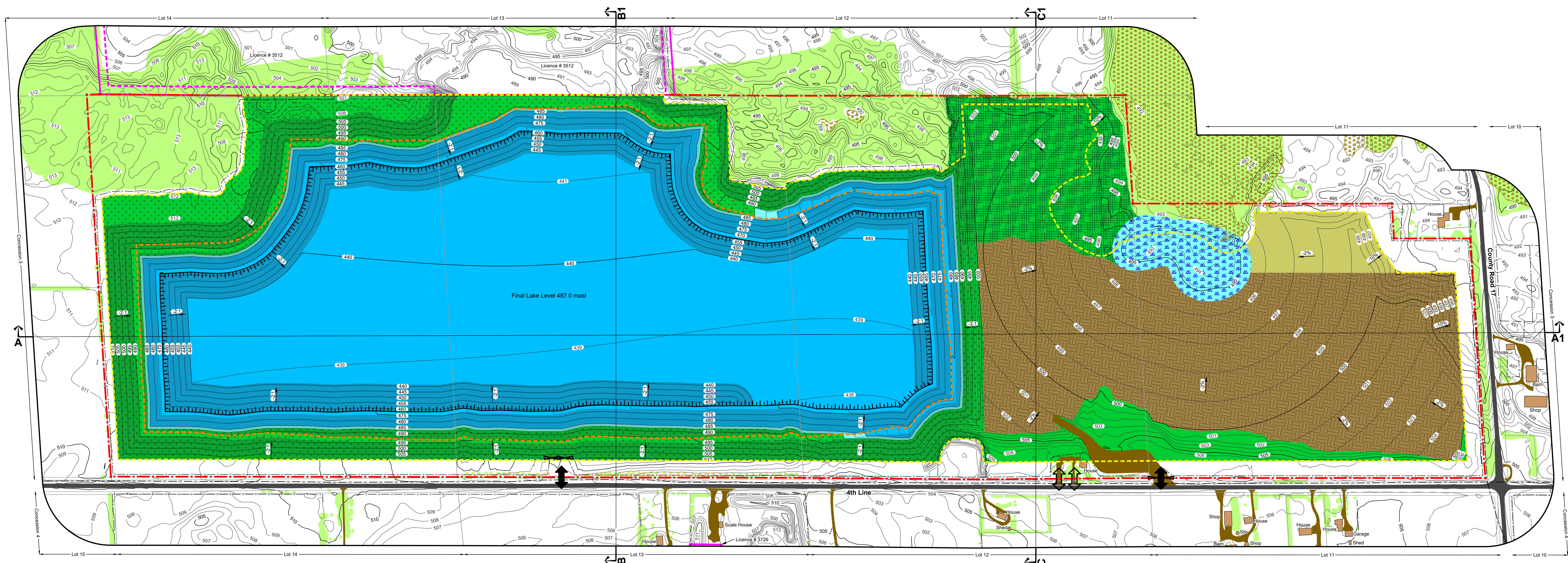
**Drawing No.**  
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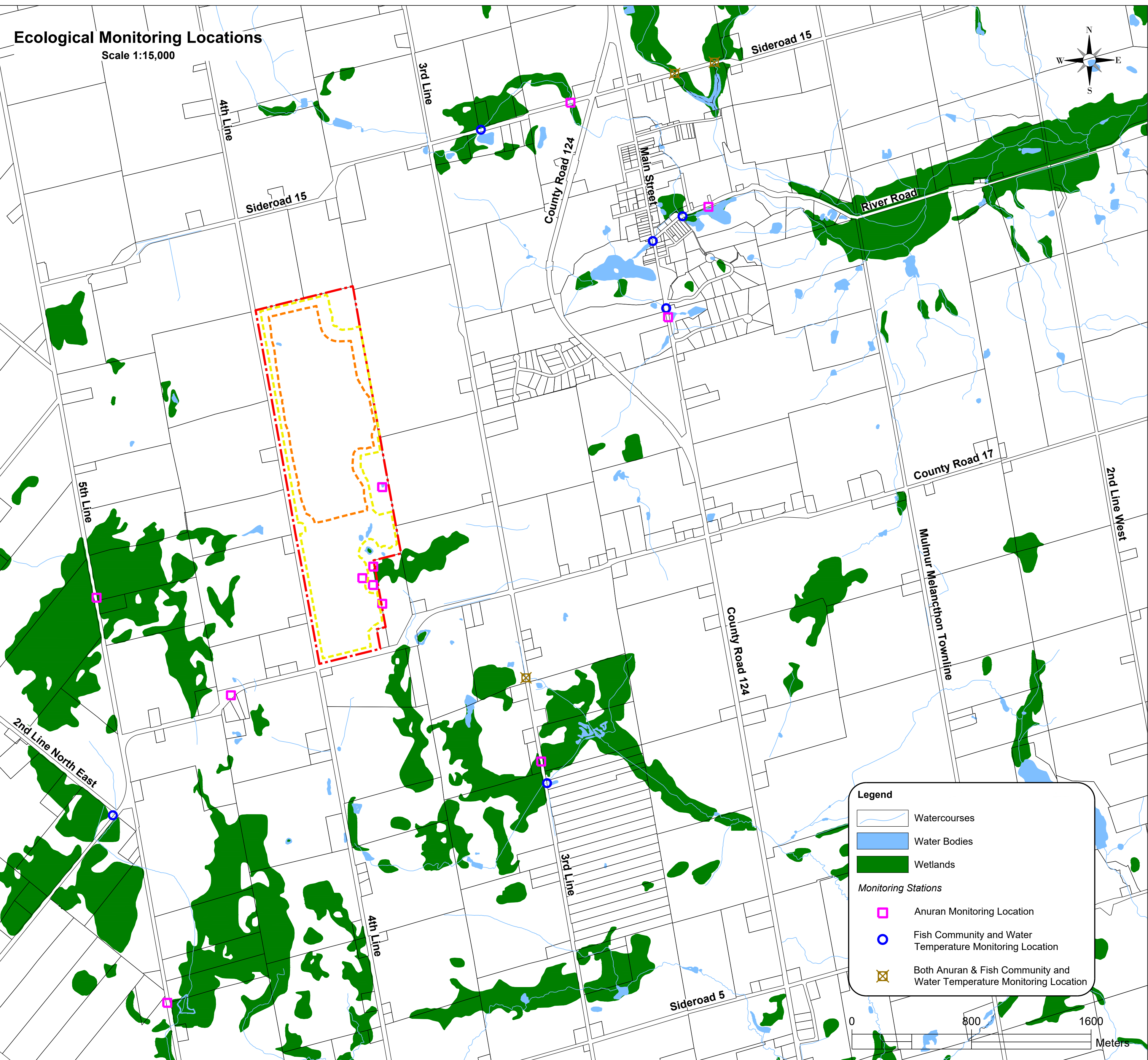








- Legal Description**  
Part of West half of Lot 11, Concession 3  
West Half of Lots 12, 13 and 14, Concession 3  
(former geographic Township of Melancthon)  
Township of Melancthon, County of Dufferin
- Legend**
- Licence Boundary
  - Pit Limit of Extraction
  - Quarry Limit of Extraction
  - Contours with Elevation
  - Public Road
  - Driveway
  - Wooded Area
  - Rehabilitated Agricultural Area
  - Rehabilitated Native Meadow Area
  - Existing Rehabilitated Area
  - Rehabilitated Side Slopes
  - Rehabilitated Woodland Area
  - Quarry Lake Littoral Zone
  - Rehabilitated Wetland
  - Rehabilitated Lake
  - Existing Licence Boundary
  - Existing Limit of Extraction
  - 120m Offset From Licence Boundary
  - Parcel Fabric
  - Overhead Hydro
  - Fence
  - Entrance / Exit
  - Gate
  - Building/Structure
  - Proposed Final Slope
  - Proposed Final Grade
  - Wetland
  - Unevaluated Wetland
  - Cross Sections



#### PROGRESSIVE REHABILITATION

##### A. General

- Area calculations
  - Licence Boundary 149.0 ha
  - Pit Limit of Extraction 123.7 ha
  - Quarry Limit of Extraction 65.7 ha
- The maximum annual tonnage is 2,000,000 tonnes.
- The maximum predicted water table within the limits of extraction varies between 483.0 to 500.0 masl and is shown in each cross section on drawing 5 of 5.

##### B. Phasing

- As excavation reaches the limit of extraction or maximum depth, progressive rehabilitation shall commence.
- Progressive rehabilitation shall follow the general direction and sequence of extraction identified on drawing 2 of 5 and described in the notes on drawing 3 of 5.
- Each phase of extraction shall commence progressive rehabilitation prior to proceeding to the next phase of extraction.

##### C. Slopes and Grading

- Progressive rehabilitation for the pit shall consist of backfilling the pit floor and side slopes to establish the grades, slopes and elevations depicted on the plan view of this drawing. Side slopes may also be established for the pit using the cut and fill rehabilitation technique.
- Progressive rehabilitation for the quarry shall consist of backfilling the excavation face from lift 1 to the top of bedrock to establish a 2:1 side slope. The excavation face for lift 2 shall remain vertical (see Section N Variations from Control and Operation Standards on drawing 3 of 5). The excavation face for lift 3 shall be backfilled from the floor of lift 3 to the bottom of lift 2 to establish a 2:1 side slope. However, the excavation face for lift 3 along the west boundary of Phase 4B shall remain vertical (see Section N Variations from Control and Operation Standards on drawing 3 of 5).

##### FINAL REHABILITATION

##### E. General

- All equipment shall be removed from the site.
- The scale house / office and scale on Lot 13, Concession 3 shall be removed.
- The scale house / office and scale on Lot 12, Concession 3 may remain.
- The farmhouse on Lot 12, Concession 3 may remain.
- Aside from the buildings and structures mentioned in notes E.2 to E.4 above, all other buildings, structures and haul roads shall be removed.
- The anticipated final lake level is 487.0 masl.
- The anticipated final end-use will be agriculture with naturalized open space consisting of a native meadow, side slopes, a woodland, littoral zones, a wetland and a lake.

#### Site Plan Acronyms

- ARA - Aggregate Resources Act
- MASL - Metres Above Sea Level
- MNR - Ministry of Natural Resources
- MCM - Ministry of Citizenship and Multiculturalism
- MGCS - Ministry of Government and Consumer Services
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#### Site Plan Amendments

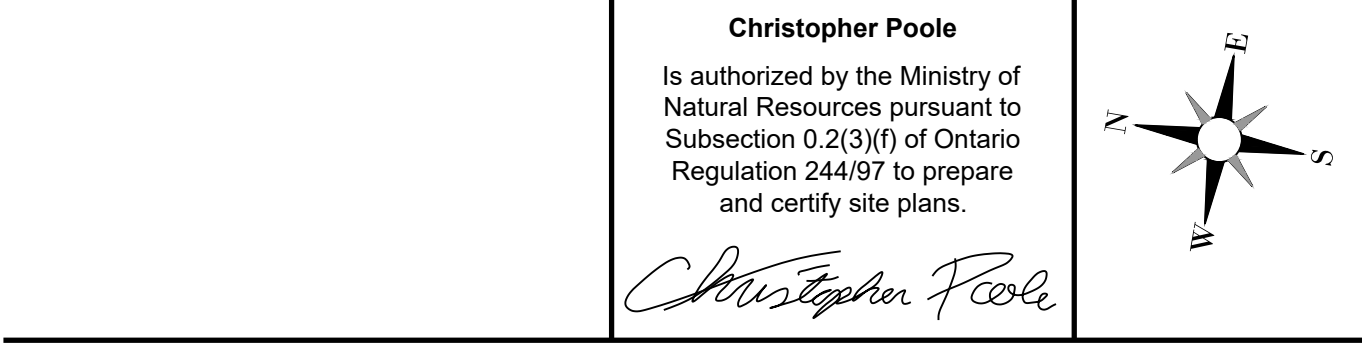
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#### Site Plan Revisions (Pre-Licensing)

| No. | Date          | Description  | By  |
|-----|---------------|--|-----|
| 1   | February 2025 | Update drawing 3 of 5  | CAP |
| 2   | July 2025     | Add fencing along the wooded boundaries within Lots 12 and 14, Concession 3, within the licence boundary | CAP |
|     |               |  |     |
|     |               |  |     |
|     |               |  |     |



#### MNR Approval Stamp



#### Applicant



#### Project

### Strada Pit & Quarry

437159 4th Line, Melancthon, Ontario, L0N 1S9

#### MNR Licence Reference No.

626676

#### Applicant's Signature

Y3491

#### Plan Scale: 1:3000 (Arch E)

0 90 180 Meters

#### Date

July 2025

#### Drawn By

C.P.

#### Checked By

B.Z.

#### Drawing Name

### Rehabilitation Plan

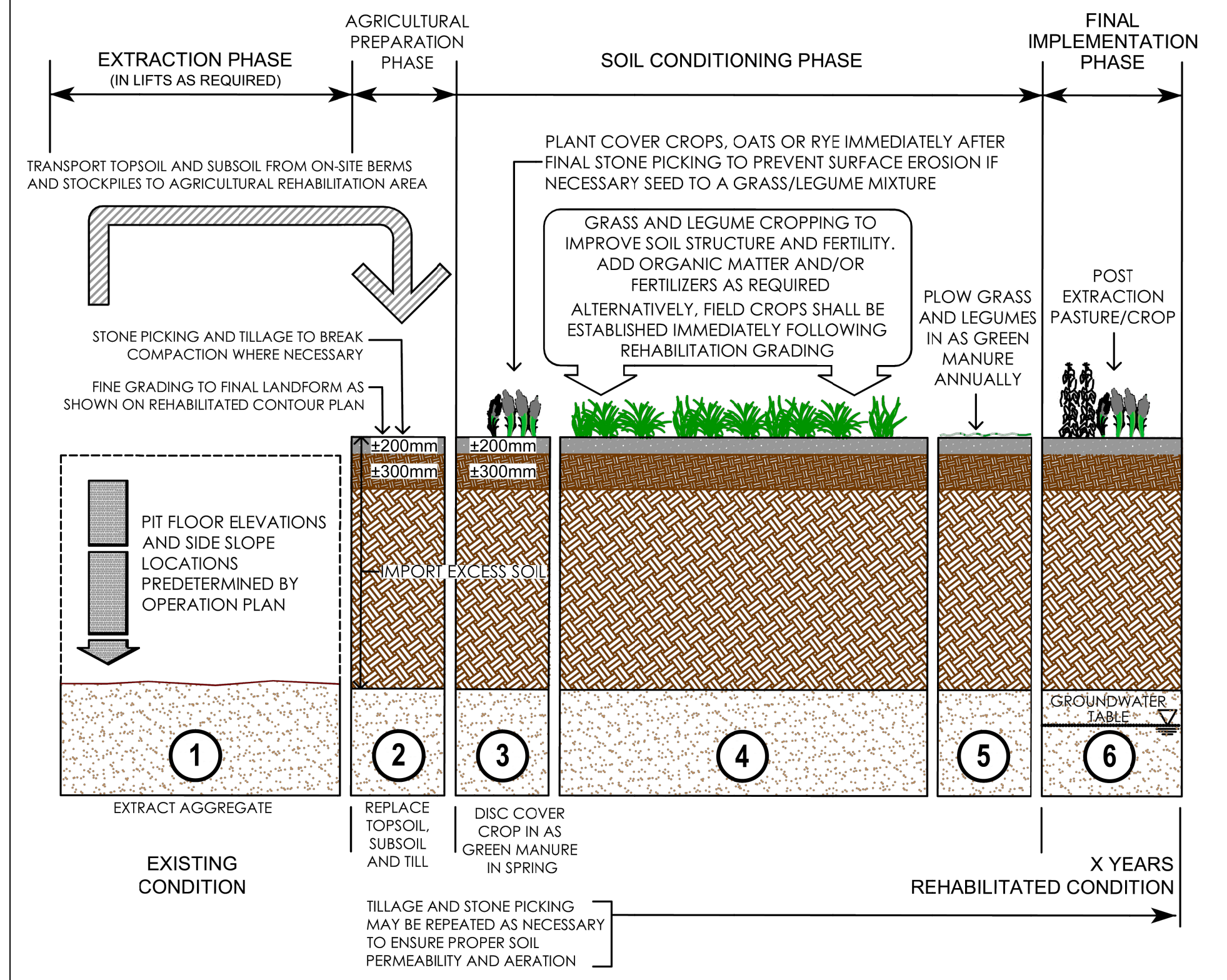
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4 of 5

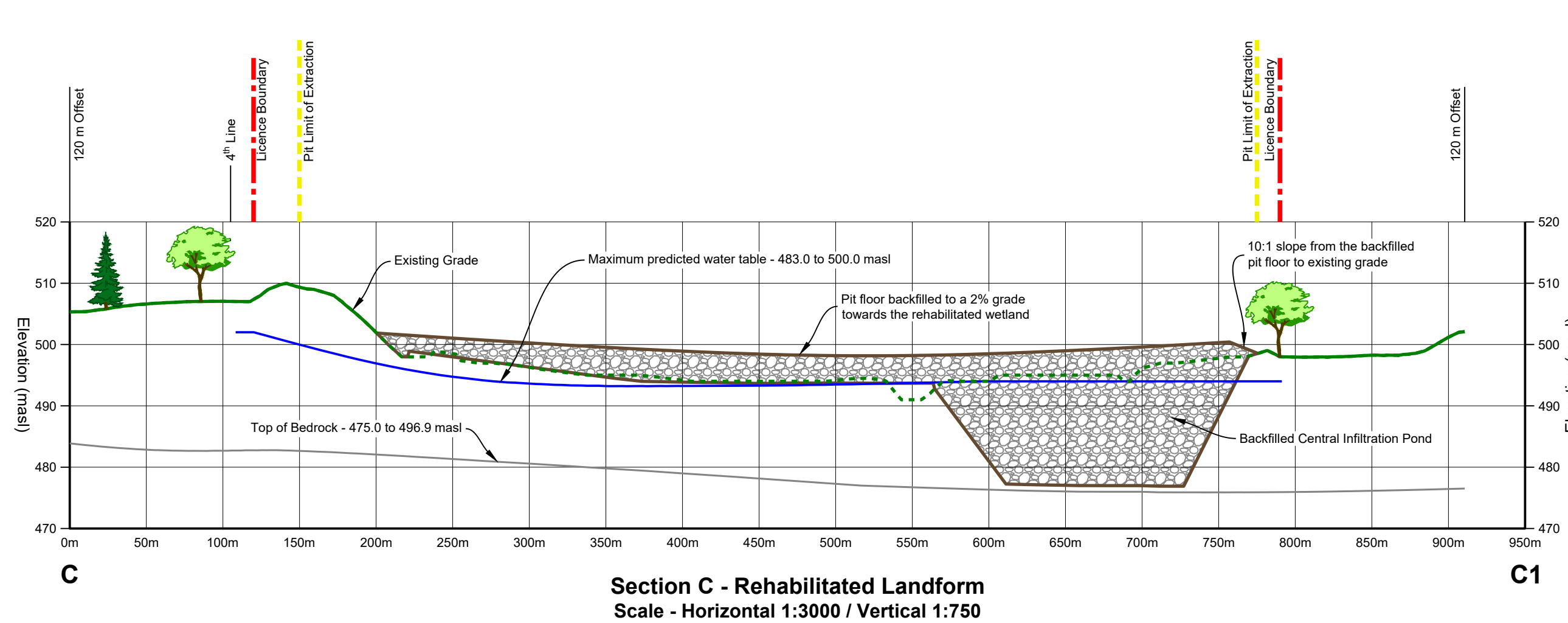
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### Pit Floor Agricultural Rehabilitation Sequence







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