

REHABILITATION PLAN NOTES:

GENERAL

1. THE AREA TO BE REHABILITATED IS 19.5 HECTARES (17.5ha EXTRACTION AREA AND 2.0ha SETBACKS AREA).
2. REHABILITATION OF THE PIT WILL PROVIDE FOR FOREST AND OPEN FIELD MEADOWS.
3. UNDISTURBED AREAS WILL REMAIN.
4. A MINIMUM 50 METRE WILDLIFE CORRIDOR WILL BE MAINTAINED ACROSS THE SITE DURING THE LIFE OF THE PIT THROUGH TO FINAL REHABILITATION.

PROGRESSIVE REHABILITATION:

5. AS EXTRACTION MOVES FROM NORTH TO SOUTH, THE PIT WILL BE PROGRESSIVELY REHABILITATED.
6. PROGRESSIVE REHABILITATION WILL PROCEED WHEN FINAL EXTRACTION LEVELS HAVE BEEN REACHED IN ANY PHASE.
7. REHABILITATION OF PHASE 1 WILL BE COMPLETED PRIOR TO EXTRACTION IN PHASE 3. REHABILITATION OF PHASE 2 WILL BE COMPLETED PRIOR TO EXTRACTION IN PHASE 4.
8. PERIMETER SLOPES WILL BE CREATED PROGRESSIVELY AS THE LIMITS OF EXTRACTION IN EACH PHASE ARE REACHED.
9. TO ENSURE SUCCESSFUL REHABILITATION TO FOREST AND OPEN FIELD MEADOW, THE NATURAL ENVIRONMENT RECOMMENDATIONS WILL BE IMPLEMENTED (SEE SHEET 4 OF 4).

FINAL REHABILITATION:

10. ALONG THE NORTH BOUNDARY, THE SITE WILL BE GRADED TO A COMMON ELEVATION WITH THE EXISTING LEWIS PIT (LICENSE NO. 3560).
11. ALL FACES WILL BE REHABILITATED BY CREATING PERIMETER SLOPES NO STEEPER THAN 3:1.
12. UPON COMPLETION OF EXTRACTION, ALL SCRAP AND EQUIPMENT WILL BE REMOVED FROM THE SITE.
13. ALL INTERNAL HAUL ROADS WILL BE REHABILITATED ONCE NO LONGER IN USE.

CREATION AND REHABILITATION OF PERIMETER SLOPES:

14. PERIMETER SLOPES WILL BE ESTABLISHED BY BACKFILLING OVERBURDEN AND/OR UNMARKETABLE AGGREGATE MATERIAL AND/OR IMPORTED MATERIAL AND THEN GRADED PRIOR TO THE PLACEMENT OF THE TOPSOIL.
15. ALL PERIMETER SLOPES WILL BE CONSTRUCTED USING 3:1(MAX) SLOPES ALONG THE PIT FACES.
16. TOPSOIL AND SUBSOIL THAT HAS BEEN STRIPPED AND STORED ON-SITE WILL BE RE-APPLIED SEPARATELY. OVERBURDEN AND/OR IMPORTED MATERIAL MAY BE USED TO BACKFILL PIT FACES AND CREATE PERIMETER SLOPES AND ESTABLISH FINISHED GRADES.
17. TOPSOIL WILL BE SPREAD (100mm THICK) TO GROW AND MAINTAIN A GRASS / LEGUME SEED MIXTURE SUITABLE FOR THE SOIL CONDITIONS TO PREVENT EROSION AND DUST.
18. PERIMETER SLOPES WILL BE REFORESTED AS PER THE NATURAL ENVIRONMENT RECOMMENDATIONS SHOWN ON SHEET 4 OF 4.
19. VEGETATION AND REFORESTED AREAS WILL BE MAINTAINED ON REHABILITATED SLOPES UNTIL IT IS SELF-SUSTAINING.

IMPORTATION OF MATERIAL:

20. TOPSOIL AND IMPORTED MATERIAL MAY BE BROUGHT ON SITE AND USED DIRECTLY IN THE PROGRESSIVE REHABILITATION OF THE PIT.
21. EXCESS SOIL, AS DEFINED IN ONTARIO REGULATION 406/19 UNDER THE ENVIRONMENTAL PROTECTION ACT, MAY BE IMPORTED TO THIS SITE FOR THE FOLLOWING REHABILITATION PURPOSES:
 - i) CREATION OF FINAL SIDE SLOPES
 - ii) CREATION OF THE 60m PLATEAU AROUND THE EXTRACTION BOUNDARY
 - iii) TOP DRESSING TO ESTABLISH VEGETATION
22. THE LICENSEE MUST MANAGE ALL IMPORTED MATERIAL IN ACCORDANCE WITH THE EXCESS SOIL MANAGEMENT REGULATION, ONTARIO REGULATION 406/19 (THE EXCESS SOIL REGULATION), AND MUST FOLLOW THE APPLICABLE EXCESS SOIL QUALITY STANDARDS UNDER O. REG. 406/19 UNDER THE ENVIRONMENTAL PROTECTION ACT.

DRAINAGE:

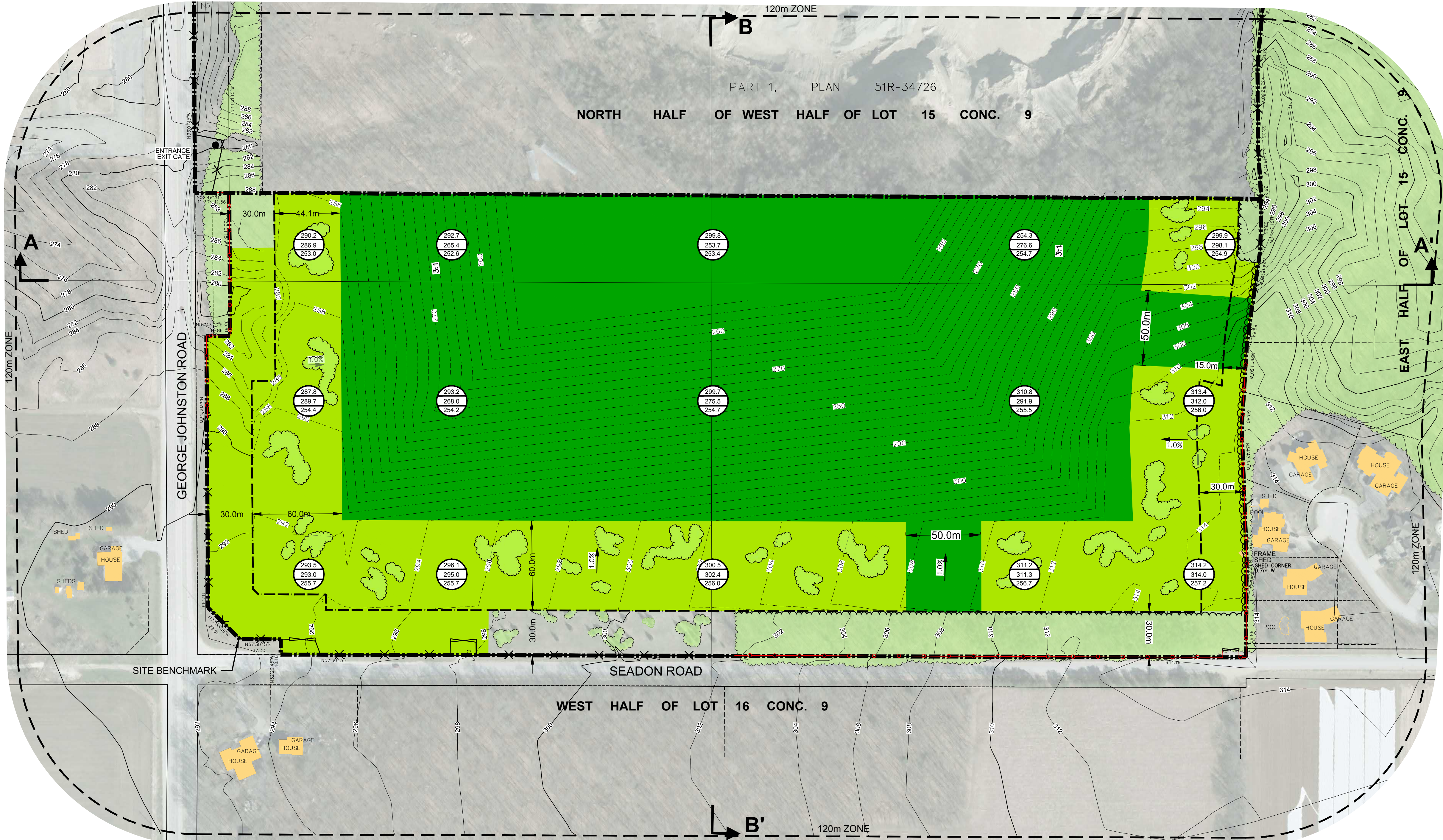
23. SURFACE DRAINAGE WILL FOLLOW THE FINAL CONTOURS SHOWN ON THE PLAN AND WILL DRAIN TOWARDS THE NORTH CENTRAL PORTION OF THE SITE. ALL SURFACE WATER DRAINAGE WILL BE DIRECTED TO THE LOW AREAS REMAINING ON THE PIT FLOOR SO THAT THE WATER CAN INFILTRATE INTO THE UNDERLYING SHALLOW GROUNDWATER TABLE.
24. THE MAXIMUM PREDICTED WATER TABLE ELEVATION IS EXPECTED TO REMAIN UNCHANGED AND WILL CONTINUE TO MATCH EXISTING CONDITIONS, WHICH VARIES FROM ±256 MASL IN THE SOUTHEAST CORNER OF THE SITE TO ±251 IN THE NORTHWEST PORTION OF THE SITE.

FENCING:

25. ALL FENCING WILL REMAIN AS SHOWN ALONG THE SOUTH, EAST AND WESTERN BOUNDARIES OF THE SITE.

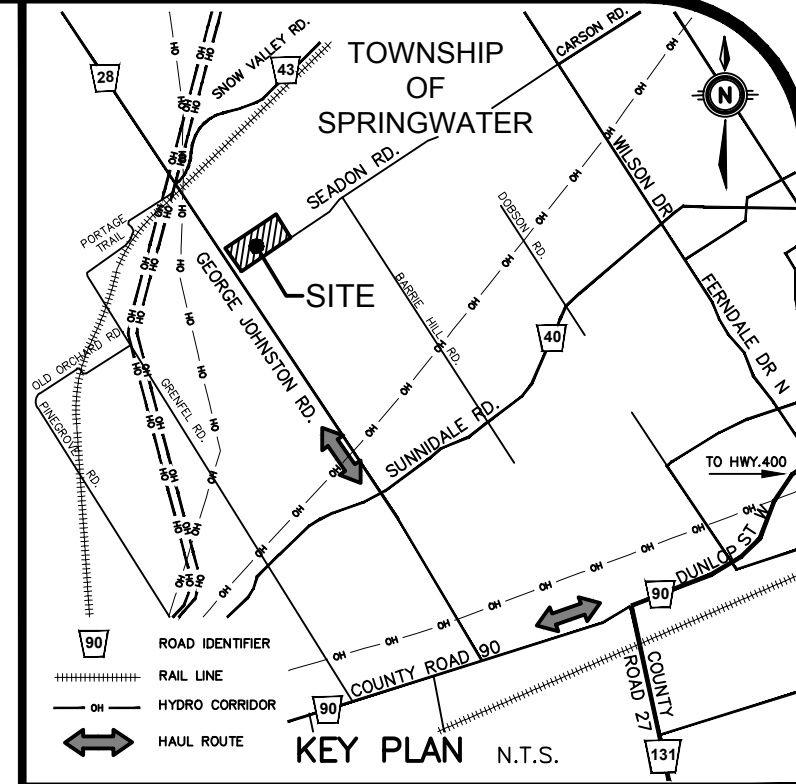
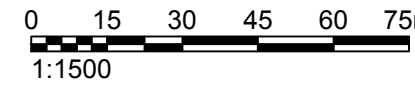
CROSS-SECTIONS:

26. REFER TO SHEET 4 OF 4, CROSS-SECTIONS AND DETAILS PLAN FOR MORE INFORMATION ON THE FINAL PIT FLOOR ELEVATION, BACKFILLING AND CREATION OF REHABILITATED SIDESLOPES.



LEGEND

- LOT LINE
- LICENCED BOUNDARY
- LIMIT OF EXTRACTION
- 120m ZONE
- PROPOSED FENCE
- EXISTING FENCE
- EXISTING CONTOURS
- REHABILITATION CONTOURS
- 1.6ha AREA TO REMAIN AS EXISTING VEGETATION
- 7.3ha AREA REHABILITATED TO COMBINATION OF FIELD MEADOW AND LOW DENSITY REFORESTATION
- 12.2ha AREA REHABILITATED TO REFORESTATION AREA
- EXISTING GROUND ELEVATION (314)
- REHABILITATION ELEVATION (314)
- PIT FLOOR ELEVATION (257)



SITE BENCHMARK ELEV. = 293.06m
TOP OF SIB LOCATED IN THE SOUTH WEST CORNER OF PROPERTY (AS SHOWN ON PLAN). ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE RTK SMARTNET NETWORK CGVD28:78

I, ACKNOWLEDGE AND SHALL CARRY ON THE OPERATION OF THIS SITE IN ACCORDANCE WITH THE SITE PLAN UPON WHICH MY LICENSE IS BASED.

David W. Kennedy March 16, 2022
DATE

SITE PLANS APPROVED BY:

MINISTRY OF NORTHERN DEVELOPMENT, MINES, NATURAL RESOURCES AND FORESTRY DATE

DECLARATION OF PURPOSE
THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS 'A' LICENCE PIT ABOVE WATER.

SITE PLAN VARIATIONS	
8.	
7.	
6.	
5.	
4.	
3.	
2.	
1.	Zero setback along North boundary 0.13(1)10.1
No. V A R I A T I O N O.Reg. Section	
SITE PLAN AMENDMENTS	
8.	
7.	
6.	
5.	
4.	
3.	
2.	
1.	
No. R E V I S I O N BY YYYY-MM-DD	

MTE
Engineers, Scientists, Surveyors
519-743-6500

David W. Kennedy

CLIENT
GALIBIER MATERIALS INC.
151 Whitehall Drive Markham, ON
PROJECT
LEWIS PIT EXPANSION
WEST 1/2 OF LOT 15, CONCESSION 9,
TOWNSHIP OF SPRINGWATER (FORMERLY VESPREA TOWNSHIP),
COUNTY OF SIMCOE, ONTARIO
DRAWING

REHABILITATION PLAN	
Project Manager J.FLANAGAN	Project No. 40318-400
Design By JBF	Checked By CJC
Drawn By WSS	Checked By JBF
Surveyed By J.D.BARNES	Drawing No. AR1.3
Date MARCH 2022	Scale 1:1500
Sheet 3 of 4	