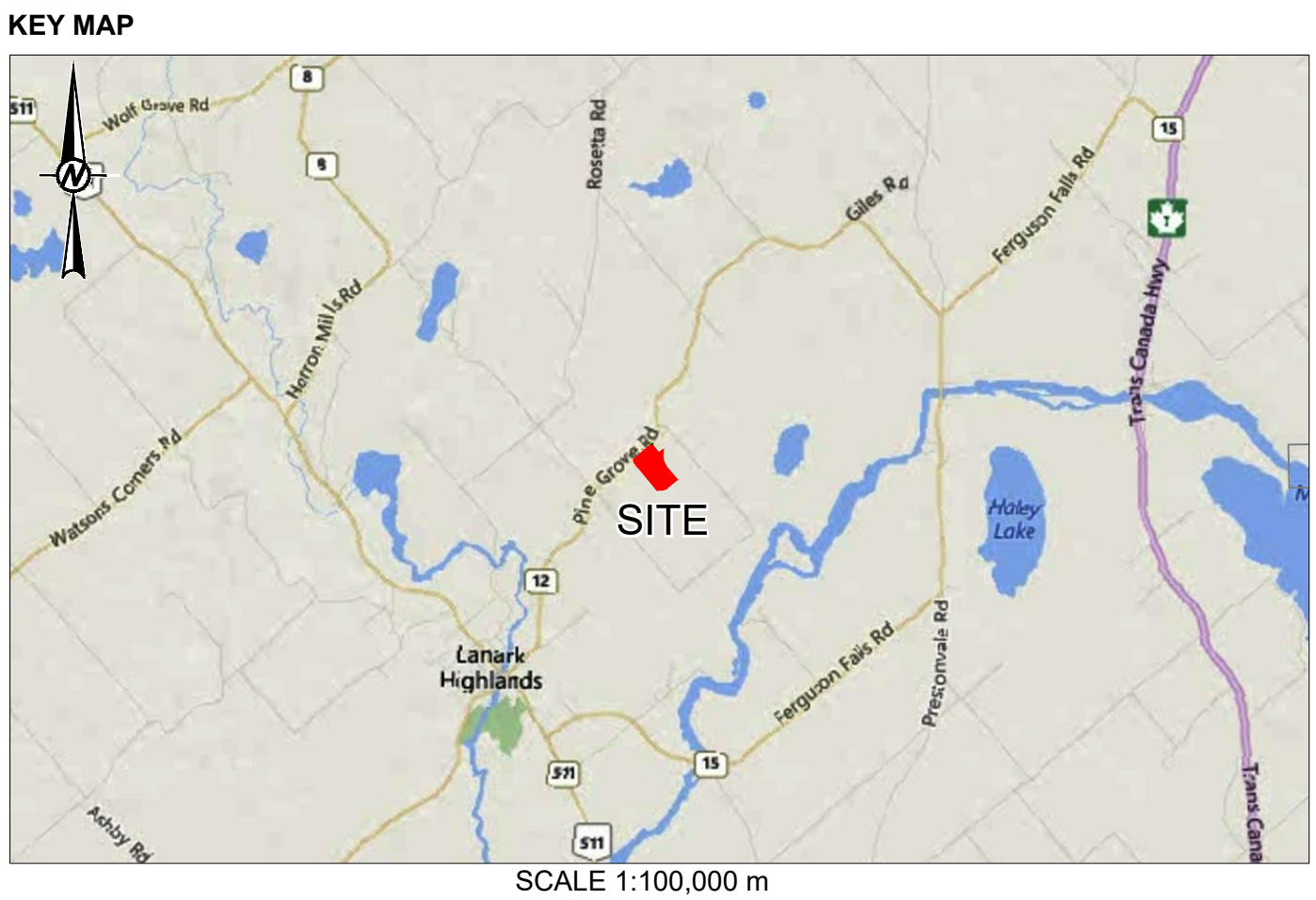




AMENDMENTS	DATE	APPROVAL DATE

SITE PLANS APPROVED BY THE MINISTRY OF NATURAL RESOURCES AND FORESTRY.

SIGNATURE _____ DATE _____






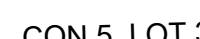










APPLICANT:
THOMAS CAVANAGH CONSTRUCTION LIMITED
9094 CAVANAGH ROAD
ASHTON, ONTARIO
K0A 1B0

NOTE(S)

1. LICENCED AREA, ARNOTT PIT **19.5** HECTARES.
2. AREA OF OPERATION, ARNOTT PIT **18.6** HECTARES.
3. THIS SITE PLAN IS PREPARED FOR A CLASS "A" CATEGORY 3 LICENSE UNDER THE AGGREGATE RESOURCES ACT AND REGULATIONS.
4. THIS PLAN WAS PREPARED USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS.
5. LOT, CONCESSION AND BOUNDARY LINES ON THIS PLAN AREA APPROXIMATE.
6. THIS IS NOT A LEGAL SURVEY DRAWING IN ACCORDANCE WITH THE PROVINCE OF ONTARIO SURVEYORS ACT 1987. THIS DRAWING WAS PRODUCED USING STANDARD PHOTOGRAMMETRIC PRACTICES.

LEGEND

- | | |
|---|---|
|  | BOUNDARY OF AREA TO BE LICENCED |
|  | LIMIT OF EXTRACTION |
|  | 120-METRE SURROUND |
|  | BOREHOLE / MONITORING WELL |
|  | PRIVATE WELL (AS PER MINISTRY OF ENVIRONMENT, CONSERVATION AND PARKS WATER WELL INFORMATION SYSTEM) |
|  | LOTS AND CONCESSION LINES |
|  | LAND ZONING BY-LAW |
|  | ADJACENT PIT AND QUARRY BOUNDARY |
|  | BUILDING: S-SILO, H-HOUSE, G-GARAGE, B-BARN, S-SHED, O-OFFICE, SC-SCALE HOUSE |
|  | PAGE WIRE FENCE/GATE |
|  | CEDAR RAIL FENCE/GATE |
|  | PRIMARY ENTRANCE |
|  | PRIMARY EXIT |
|  | SECONDARY ENTRANCE/EXIT |

REFERENCE(S)

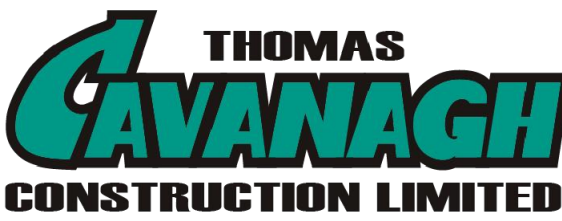
1. KEY PLAN: Service Layer Credits: Sources: ESRI, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community.
2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD.
UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS
PRINTER 2016
3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM
ZONE 18, VERTICAL DATUM: CGVD28

CLIENT
THOMAS CAVANAGH CONSTRUCTION LIMITED

PROJECT
ARNOTT PIT

TITLE
EXISTING FEATURES - GENERAL

APPLICANT



YYYY-MM-DD 2020-09-24

DESIGNED JPAO

PREPARED MLF/JM

REVIEWED JPAO

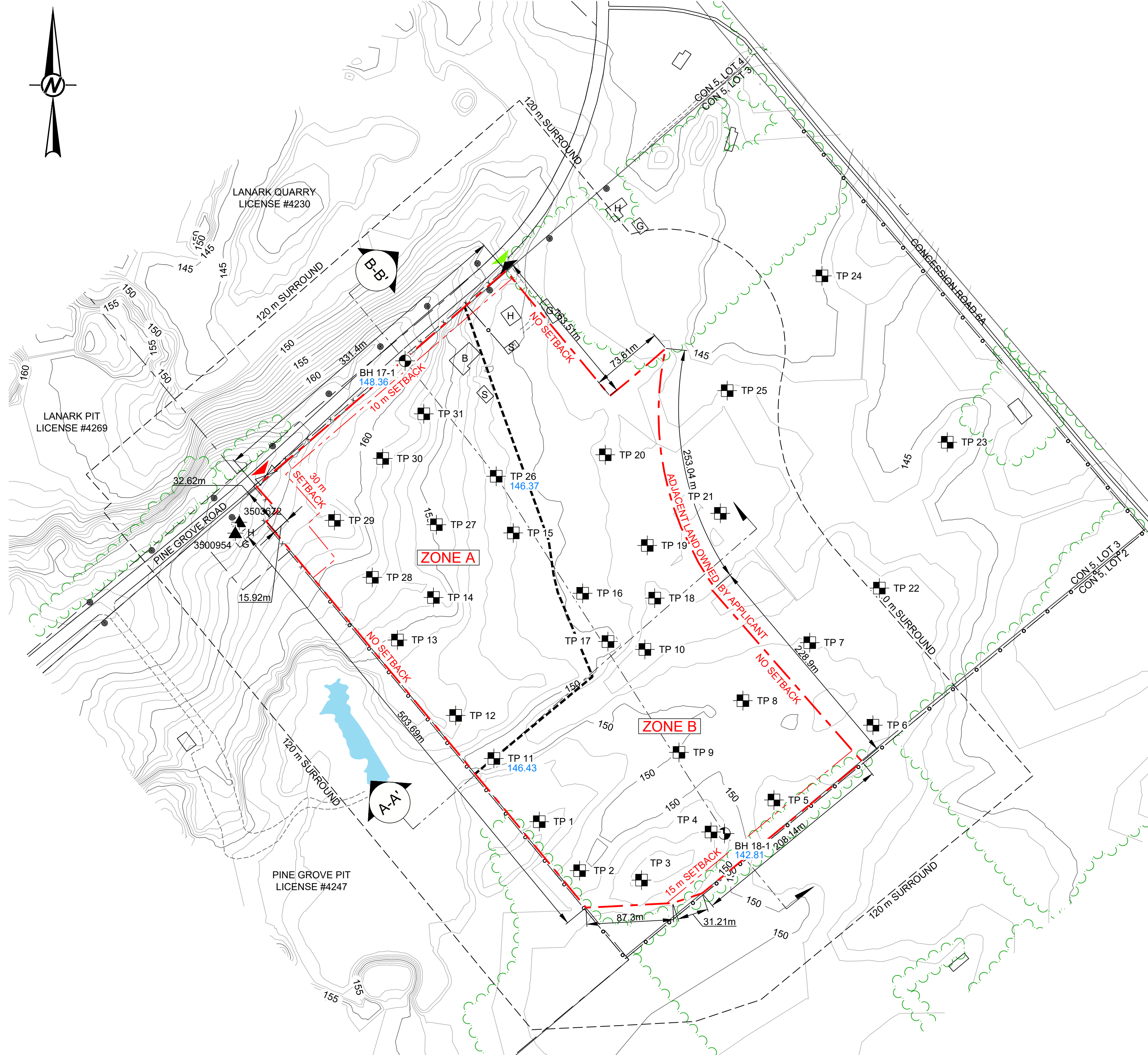
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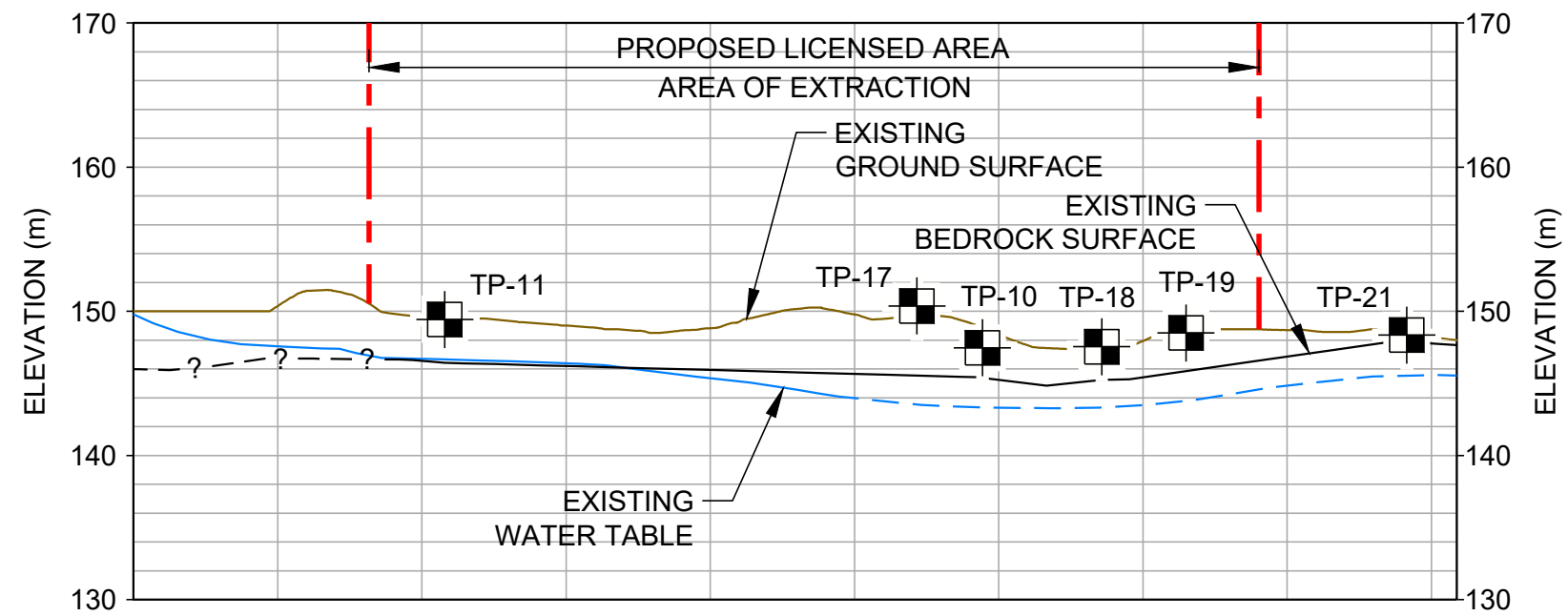
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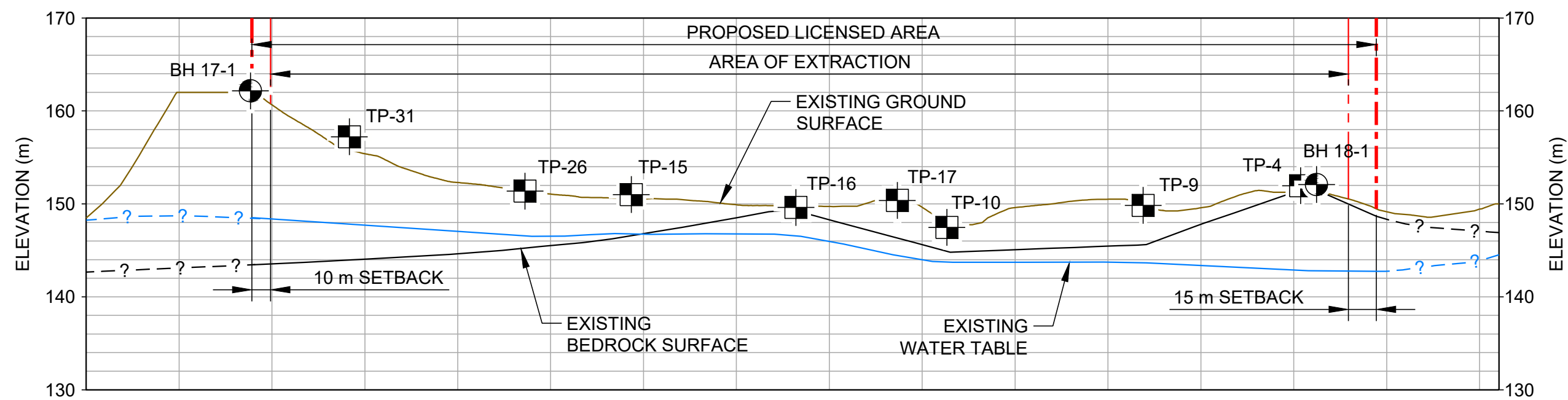
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EXISTING FEATURES - SITE
SCALE 1:2,500 m



SCALE 1:2,500 m
VERT. 1:500 m
A-A' SECTION



SCALE 1:2,500 m
VERT. 1:500 m
B-B' SECTION

EXISTING FEATURES NOTES:

THIS SITE PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVINCIAL STANDARDS FOR BILL 52 UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A, CATEGORY 3, PIT ABOVE THE WATER LICENSE.
THIS TYPE OF SITE PLAN ALLOWS FOR A PIT OPERATION THAT MAY EXTRACT AGGREGATE MATERIAL NO CLOSER THAN 1.5 METRES ABOVE THE ESTABLISHED WATER TABLE.

CONTROL FOR THE SITE PLAN COMES FROM AN ON-SITE GROUND SURVEY CONDUCTED BY THOMAS CAVANAGH CONSTRUCTION LIMITED IN NOVEMBER 2009, AND OFF-SITE GROUND ELEVATION DATA PUBLICLY AVAILABLE FROM THE MINISTRY OF NATURAL RESOURCES AND FORESTRY SCOP 2013 DIGITAL ELEVATION MODE.

NOTE: NUMBERS BELOW REFER TO AGGREGATE RESOURCES ACT CATEGORY 3 PROVINCIAL STANDARDS VERSION 1.0

1.1.10 REFERENCES WHICH APPLY SPECIFICALLY TO SITE PLAN PREPARATION

GOLDER ASSOCIATES LTD., 2018. STAGE 1 AND 2 ARCHAEOLOGICAL ASSESSMENT, ARNOTT PIT, PART OF LOT 3, CONCESSION 5, GEOGRAPHIC TOWNSHIP OF LANARK, ONTARIO.
GOLDER ASSOCIATES LTD., 2019A. GROUNDWATER TABLE ASSESSMENT IN SUPPORT OF A CATEGORY 3, CLASS A, PIT ABOVE THE WATER TABLE, PROPOSED ARNOTT PIT, TOWNSHIP OF LANARK HIGHLANDS, ONTARIO
GOLDER ASSOCIATES LTD., 2019B. NATURAL ENVIRONMENT LEVEL 1 AND 2 TECHNICAL REPORT, PROPOSED ARNOTT PIT, TOWNSHIP OF LANARK HIGHLANDS, ONTARIO.
GOLDER ASSOCIATES LTD., 2019C. NOISE IMPACT ASSESSMENT, THOMAS CAVANAGH CONSTRUCTION LIMITED, PROPOSED ARNOTT PIT, TOWNSHIP OF LANARK HIGHLANDS, ONTARIO.
TOWNSHIP OF LANARK HIGHLANDS ZONING BY-LAW NO. 2003-451, NOVEMBER 18, 2003.

1.1.16 LOCATION AND USE OF ALL BUILDINGS AND STRUCTURES EXISTING ON AND WITHIN 120 METRES OF THE SITE

THERE IS AN EXISTING FARMHOUSE AND ASSOCIATED OUTBUILDINGS (I.E., BARN, SHED, GARAGE), LOCATED IN THE NORTHEASTERN PORTION OF THE SITE. WITHIN 120 METRES OF THE SITE, THERE IS ONE COMMERCIAL/INDUSTRIAL PROPERTY LOCATED WEST OF THE SITE ON PINE GROVE ROAD AND ONE RESIDENCE LOCATED EAST OF THE SITE ALONG PINE GROVE ROAD.

1.1.17 LOCATION OF EXISTING ENTRANCES TO AND EXITS FROM THE SITE

CURRENTLY, THE ENTRANCE/EXIT FOR THE SITE IS THROUGH THE DRIVEWAY OF THE FARM HOUSE LOCATED IN THE NORTHEAST PORTION OF THE SITE. FOLLOWING LICENSING, THE PRIMARY ENTRANCE/EXIT TO THE SITE DURING PIT OPERATIONS WILL BE THROUGH THE EXISTING PINE GROVE PIT TO THE WEST OF THE SITE.

1.1.18 INTERNAL HAUL ROADS

THERE ARE CURRENTLY NO INTERNAL HAUL ROADS WITHIN THE ARNOTT PIT.

1.1.19 ELEVATION OF THE ESTABLISHED WATER TABLE

BASED ON THE AVAILABLE GROUNDWATER LEVEL DATA, THE PROPOSED LICENSE AREA WAS DIVIDED INTO TWO ZONE A AND ZONE B. THE GROUNDWATER ELEVATION AT THE NORTH END OF ZONE A IS APPROXIMATELY 148.4 MASL. BASED ON THE ELEVATION OF THE GROUNDWATER ENCOUNTERED AT TP#28 (146.37) AND TP#11 (146.43), THE WATER TABLE SLOPES DOWNWARD TO APPROXIMATELY 146.4 MASL IN THE SOUTH AND SOUTHEAST PORTION OF ZONE A.

BASED ON TEST PIT INFORMATION GATHERED IN NOVEMBER 2009, THE WATER TABLE WAS NOT ENCOUNTERED IN THE TEST PITS COMPLETED WITHIN ZONE B, AND THE GROUNDWATER TABLE IS INTERPRETED TO BE FOUND WITHIN THE UNDERLYING BEDROCK. THE MEASURED WATER TABLE ELEVATION AT BH18-1 AT THE SOUTHERN END OF ZONE B WAS 142.81 MASL (JANUARY 9, 2019), AND THE GROUNDWATER TABLE WITHIN THE BEDROCK IN ZONE B IS EXPECTED TO BE GREATER THAN 1.5 METRES BELOW THE BEDROCK SURFACE.

1.1.20 EXISTING SURFACE WATER DRAINAGE AND DRAINAGE FACILITIES ON AND WITH 120 METRES OF THE SITE

THERE ARE NO SURFACE WATER FEATURES LOCATED ON THE SITE. A SEASONAL PONDED AREA IS LOCATED TO THE WEST OF THE SITE WITHIN 120 METRES. EXISTING DRAINAGE FROM PRECIPITATION AND SNOW MELT WOULD GENERALLY FOLLOW TOPOGRAPHY AND WOULD DRAIN FROM TOPOGRAPHIC HIGH IN THE NORTHNORTHWEST PORTION OF THE SITE TOWARDS THE SOUTH/SOUTHEAST. GIVEN THE COARSE NATURE OF THE GRANULAR DEPOSIT IN THE TOPOGRAPHICALLY HIGH PORTION OF THE SITE, THE PRECIPITATION WOULD RAPIDLY INFILTRATE, AND OFF-SITE DRAINAGE FROM THE SITE WOULD NOT BE EXPECTED.

1.1.21 LOCATION/TYPE OF EXISTING FENCING

PAGE WIRE FENCING CURRENTLY EXISTS ON THE NORTHERN LICENSE BOUNDARY ADJACENT TO PINE GROVE ROAD AND ALONG THE WESTERN LICENSE BOUNDARY BETWEEN THE SITE AND THE COMMERCIAL/INDUSTRIAL PROPERTY LOCATED TO THE WEST ON PINE GROVE ROAD. THE REMAINDER OF THE WESTERN LICENSE BOUNDARY, AS WELL AS THE SOUTHERN LICENSE BOUNDARY HAS CEDAR RAIL FENCING. THERE IS NO FENCING ALONG THE EASTERN LICENSE BOUNDARY; HOWEVER, THERE IS CEDAR RAIL FENCING ALONG LANARK 6" CONCESSION A ROAD (I.E., ALONG THE EASTERN BOUNDARY OF THE PROPERTY OWNED BY THE APPLICANT).

1.1.22 LOCATION OF EXISTING TREE COVER

THERE IS NO EXISTING TREE COVER LOCATED ON THE SITE. WITHIN 120 METRES OF THE SITE, THERE ARE TREED AREAS LOCATED TO THE SOUTHWEST AND SOUTHEAST OF THE SITE CONTAINING PRIMARILY SUGAR MAPLE WITH SOME BLACK CHERRY AND IRONWOOD. WITHIN 120 METRES OF THE SITE TO THE EAST OF THE NORTHERN PORTION OF THE SITE, THERE IS A TREED AREA CONTAINING PRIMARILY SUGAR MAPLE WITH SOME WHITE ASH AND IRONWOOD.

1.1.23 LOCATION OF EXISTING STOCKPILES OF TOPSOIL AND OVERBURDEN

THERE ARE NO EXISTING STOCKPILES OF TOPSOIL OR OVERBURDEN ON THE SITE.

1.1.24 EXISTING AGGREGATE STOCKPILES/RECYCLABLE MATERIAL

THERE ARE NO EXISTING STOCKPILES OF AGGREGATE MATERIAL OR RECYCLABLE MATERIAL ON THE SITE.

1.1.25 EXISTING SCRAP LOCATIONS

THERE ARE NO EXISTING SCRAP LOCATIONS ON THE SITE.

1.1.26 EXISTING FUEL STORAGE AREA

THERE IS NO EXISTING FUEL STORAGE AREA ON THE SITE.

1.1.27 SIGNIFICANT NATURAL FEATURES ON AND WITHIN 120 METRES OF THE SITE

THERE ARE NO SIGNIFICANT NATURAL FEATURES ON OR WITHIN 120 METRES OF THE SITE.

1.1.28 SIGNIFICANT MAN-MADE FEATURES ON AND WITHIN 120 METRES OF THE SITE

SIGNIFICANT MAN-MADE FEATURES ON THE SITE INCLUDE A FARMHOUSE AND ASSOCIATED OUTBUILDINGS LOCATED IN THE NORTHEASTERN PORTION OF THE SITE. SIGNIFICANT MAN-MADE FEATURES WITHIN 120 METRES OF THE SITE INCLUDE THE PINE GROVE PIT LOCATED TO THE WEST OF THE SITE, THE LANARK PIT QUARRY LOCATED TO THE NORTH OF THE SITE, PINE GROVE ROAD LOCATED TO THE NORTH OF THE SITE AND ONE PRIVATE RESIDENCE LOCATED TO THE EAST OF THE SITE AND ONE COMMERCIAL/INDUSTRIAL PROPERTY LOCATED TO THE WEST OF THE SITE ALONG PINE GROVE ROAD.

1.1.29 ALL EXCAVATION FACES AND REHABILITATED AREAS

THERE ARE CURRENTLY NO EXCAVATION FACES OR REHABILITATED AREAS ON THE SITE.

1.1.30 LOCATION OF EXISTING PROCESSING AREAS AND IF EQUIPMENT IS STATIONARY AND/OR PORTABLE

THERE ARE CURRENTLY NO PROCESSING AREAS OR EQUIPMENT ON THE SITE.

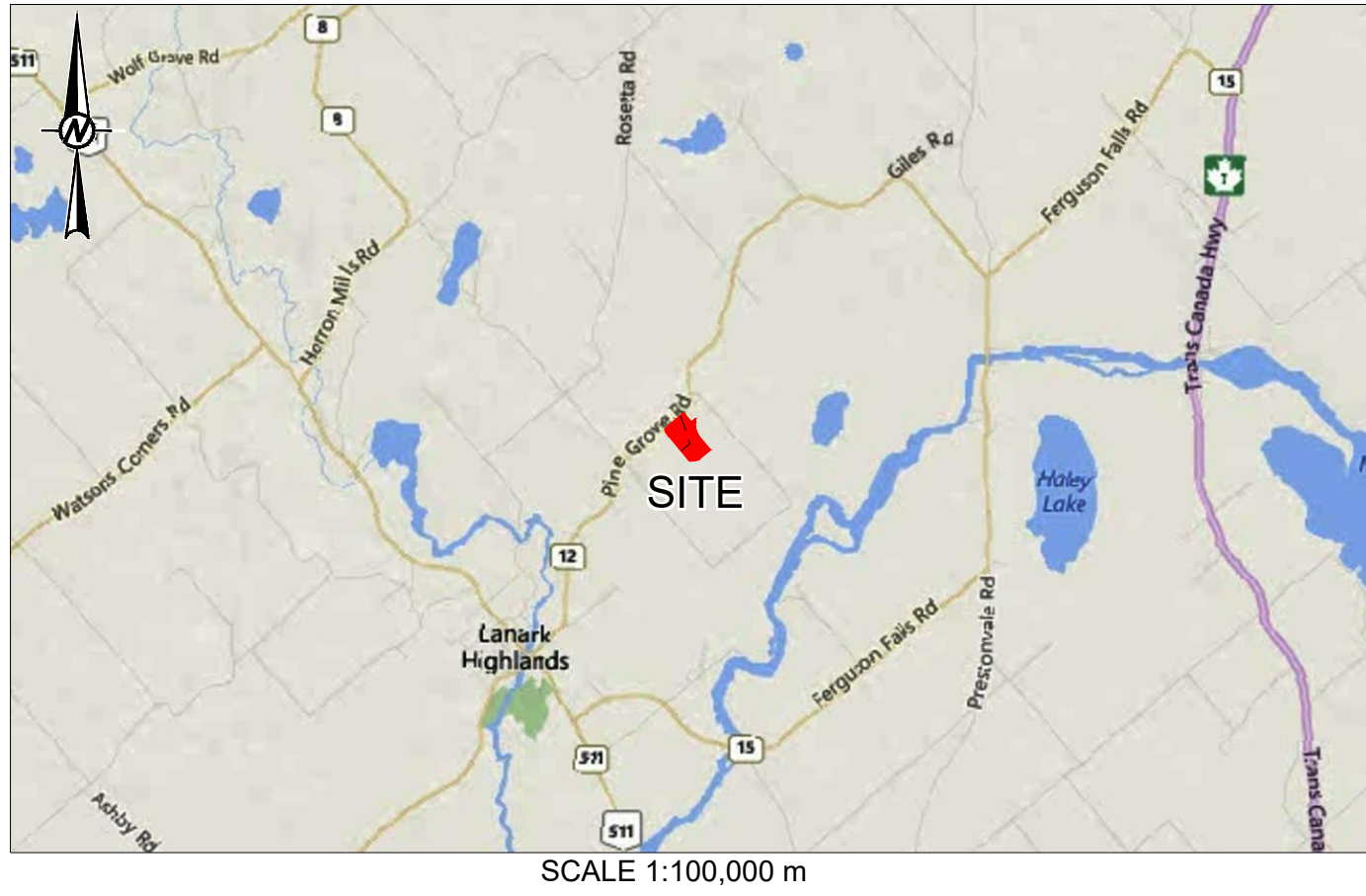
1.1.31 LOCATIONS OF EXISTING BERMS AND THEIR HEIGHT

THERE ON NO EXISTING BERMS ON THE SITE.

1.1.32 LOCATIONS OF CROSS-SECTION

REFER TO DRAWING (THIS PAGE) FOR LOCATION OF CROSS-SECTION.

KEY MAP



ARNOTT PIT PART OF LOT 3, CONCESSION 5 IN THE GEOGRAPHIC TOWNSHIP OF LANARK, TOWNSHIP OF LANARK HIGHLANDS, ONTARIO

APPLICANT:
THOMAS CAVANAGH CONSTRUCTION LIMITED
9094 CAVANAGH ROAD
ASHTON, ONTARIO
K0A 1B0

PIT LICENSE NO. _____

NOTE(S)

1. LICENCED AREA, ARNOTT PIT 19.5 HECTARES.
2. AREA OF OPERATION, ARNOTT PIT 18.6 HECTARES.
3. THIS SITE PLAN IS PREPARED FOR A CLASS "A" CATEGORY 3 LICENSE UNDER THE AGGREGATE RESOURCES ACT AND REGULATIONS
4. THIS PLAN WAS PREPARED USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS.
5. LOT, CONCESSION AND BOUNDARY LINES ON THIS PLAN AREA APPROXIMATE.
6. THIS IS NOT A LEGAL SURVEY DRAWING IN ACCORDANCE WITH THE PROVINCE OF ONTARIO SURVEYORS ACT 1987. THIS DRAWING WAS PRODUCED USING STANDARD PHOTOGRAMMETRIC PRACTICES.

LEGEND

- BOUNDARY OF AREA TO BE LICENCED
- LIMIT OF EXTRACTION
- 120-METRE SURROUND
- DIVIDE BETWEEN ZONE A AND ZONE B
- BOREHOLE / MONITORING WELL
- TEST PIT LOCATION
- 148.36
- WATER TABLE ELEVATION WITHIN MONITORING WELL OR TEST PIT
- PRIVATE WELL (AS PER MINISTRY OF ENVIRONMENT, CONSERVATION AND PARKS WATER WELL INFORMATION SYSTEM)
- CON 5, LOT 3
- CON 5, LOT 2
- LOTS AND CONCESSION LINES
- ADJACENT PIT AND QUARRY BOUNDARY
- BUILDING; S-SILO, H-HOUSE, G-GARAGE, B-BARN, S-SHED, O-OFFICE, SC-SCALE HOUSE
- PAGE WIRE FENCE/GATE
- CEDAR RAIL FENCE/GATE
- ROAD: PAVED
- ROAD/DRIVEWAY: UNPAVED
- UTILITY POLE
- POND
- CONTOURS/INDEX CONTOURS
- WOODED AREA
- CROSS-SECTIONS
- PRIMARY ENTRANCE
- PRIMARY EXIT
- SECONDARY ENTRANCE/EXIT

REFERENCE(S)

1. KEY PLAN: Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, OpenStreetMap contributors, and the GIS User Community
2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2016
3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

CLIENT

THOMAS CAVANAGH CONSTRUCTION LIMITED

PROJECT

ARNOTT PIT

TITLE

EXISTING FEATURES - SITE

APPLICANT



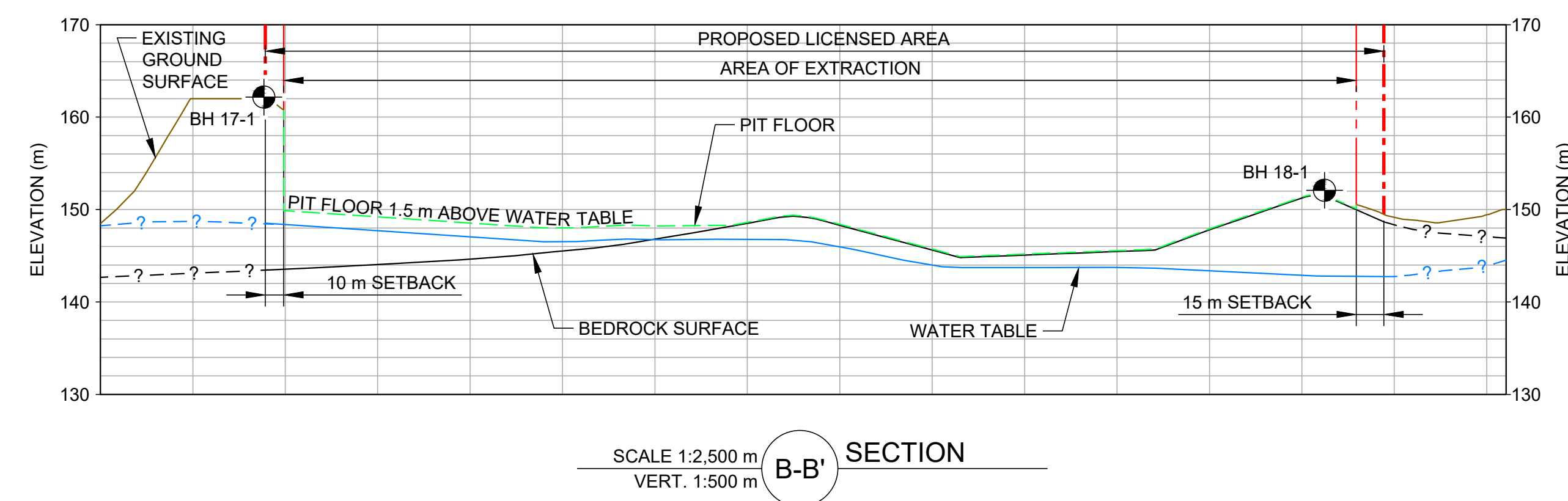
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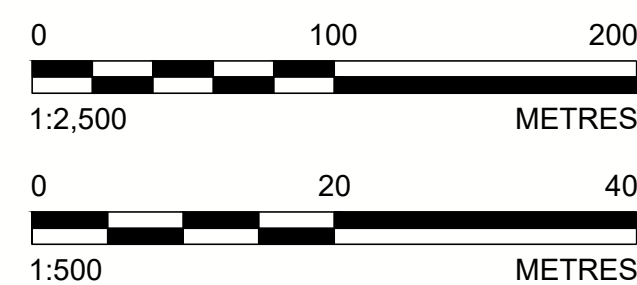


AMENDMENTS	DATE	APPROVAL DATE
SITE PLANS APPROVED BY THE MINISTRY OF NATURAL RESOURCES AND FORESTRY.		
SIGNATURE _____	DATE _____	

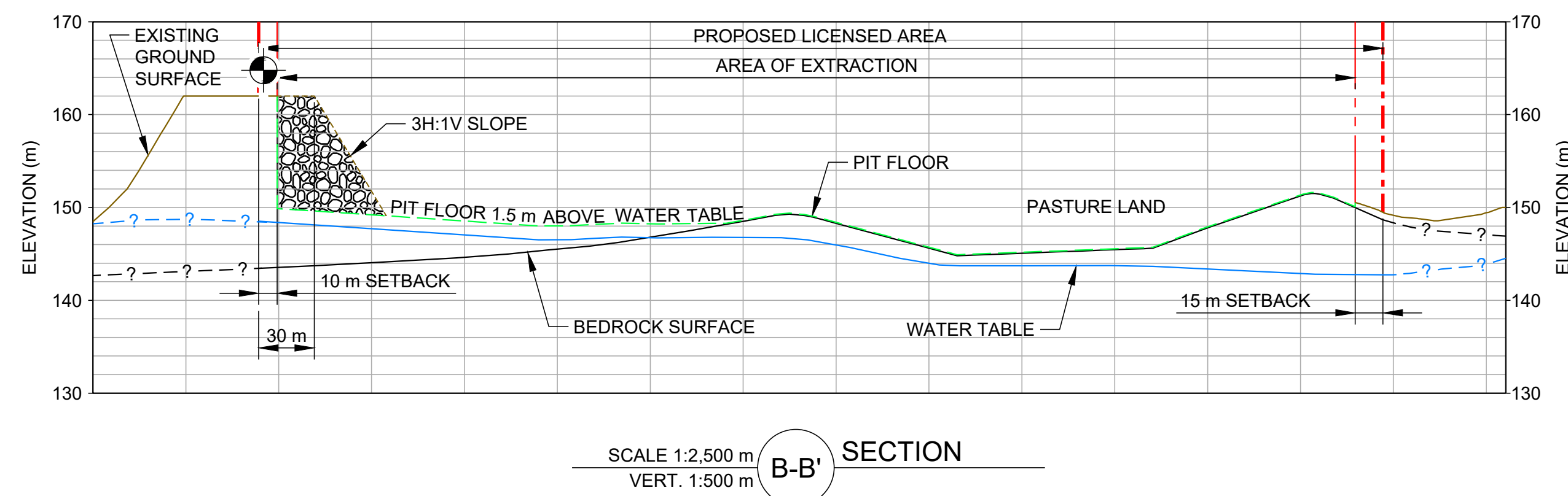
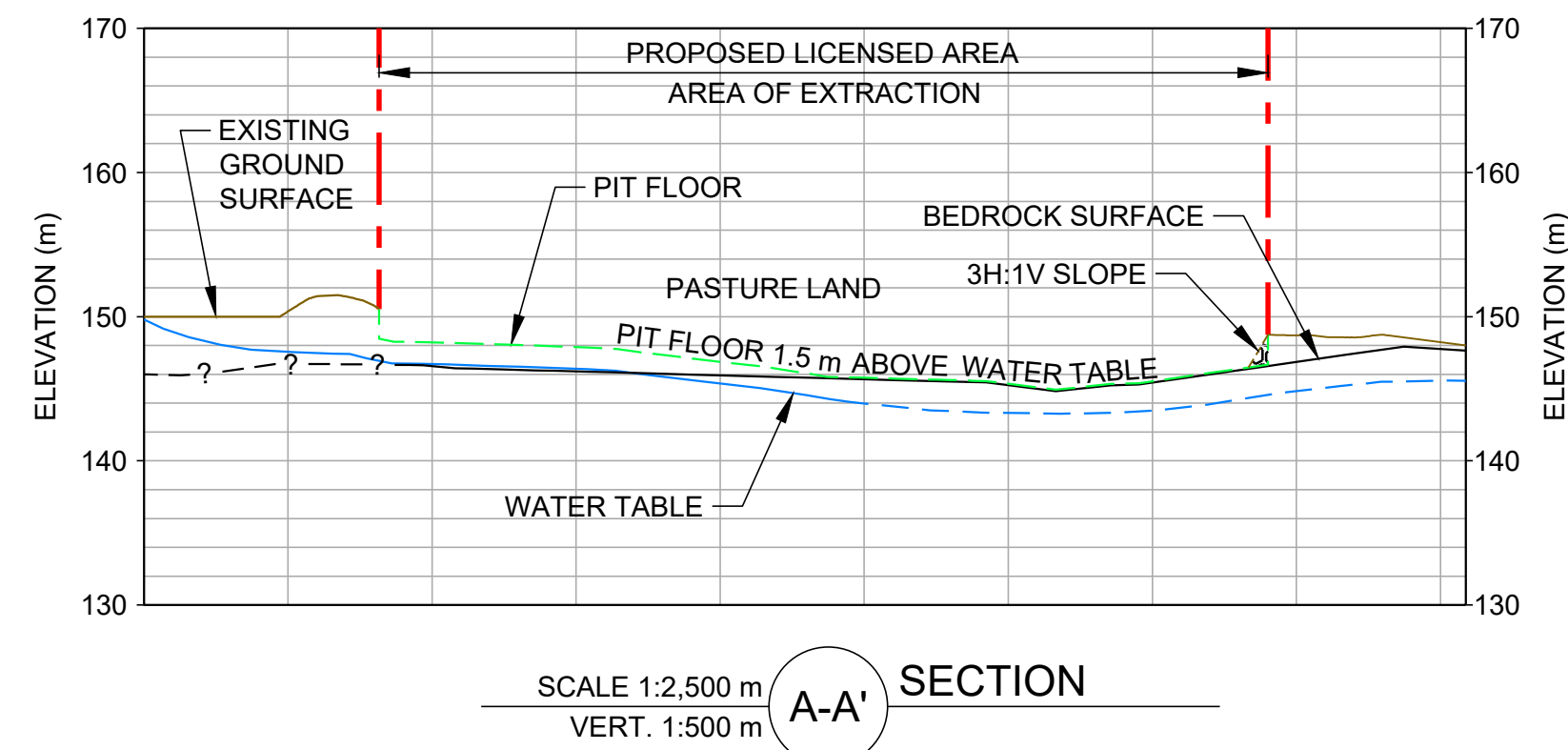
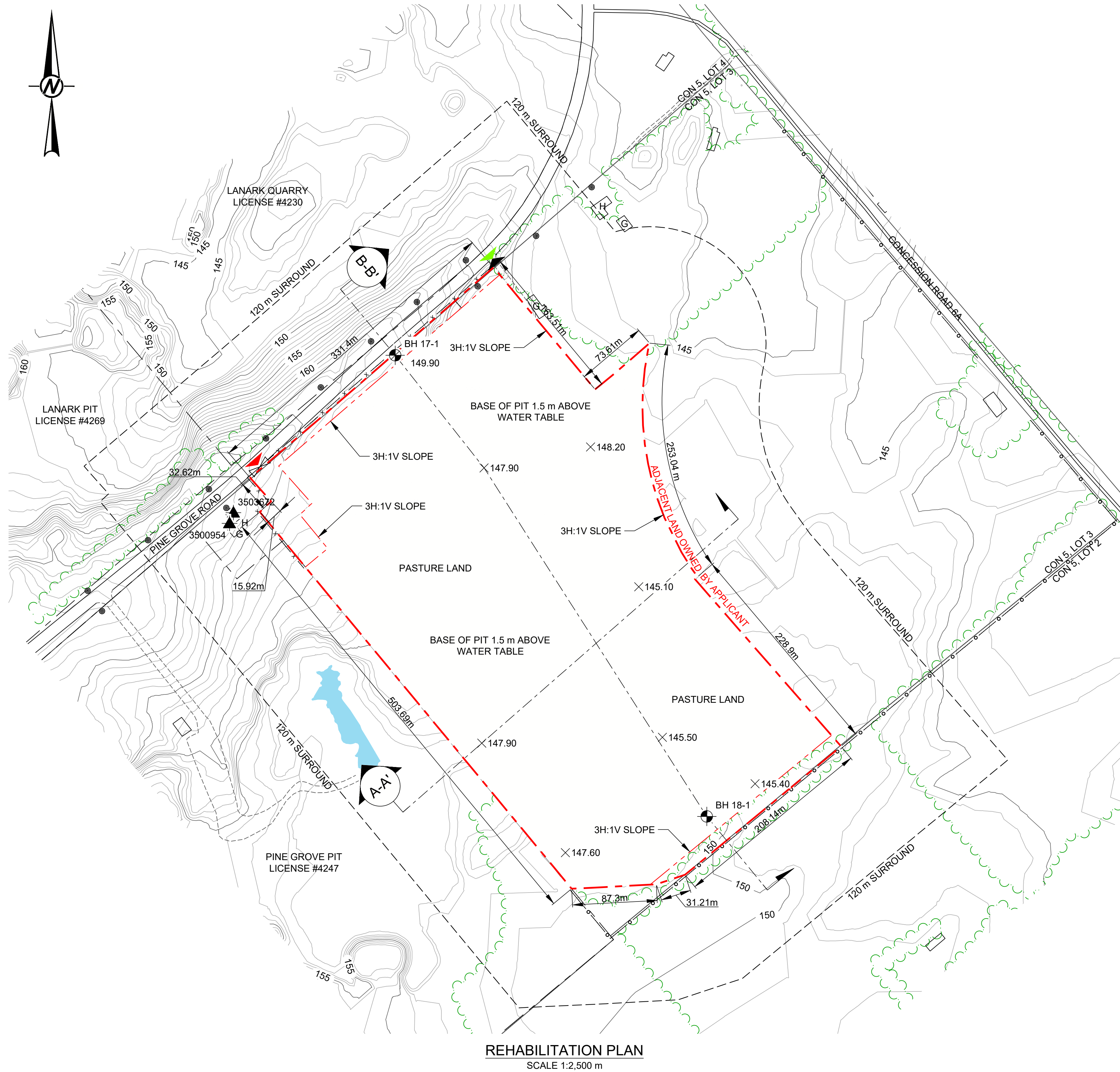
SIGNATURE OF APPLICANT/LICENSEE	DATE
PREPARED UNDER THE DIRECTION OF: BRIAN HENDERSON	DATE



**THOMAS
CAVANAGH
CONSTRUCTION LIMITED**

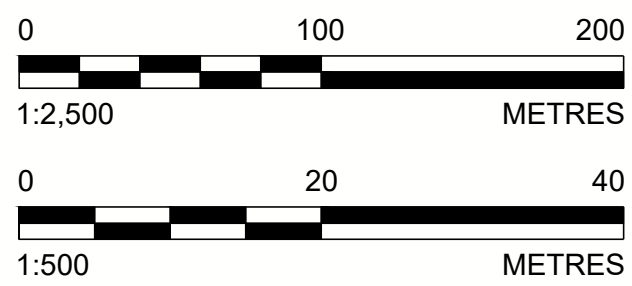


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AMENDMENTS	DATE	APPROVAL DATE
SITE PLANS APPROVED BY THE MINISTRY OF NATURAL RESOURCES AND FORESTRY.		
SIGNATURE _____		DATE _____

SIGNATURE OF APPLICANT/LICENSEE _____	DATE _____
PREPARED UNDER THE DIRECTION OF: BRIAN HENDERSON	DATE _____



REHABILITATION NOTES:
THE PROPOSED POST REHABILITATION USE OF THE SITE IS PASTURE LANDS. REHABILITATION WILL BE COMPLETED IN A MANNER TO ENSURE THAT THE SITE BLENDS INTO THE SURROUNDING LANDS.

NOTE: NUMBERS BELOW REFER TO AGGREGATE RESOURCES ACT CATEGORY 3 PROVINCIAL STANDARDS VERSION 1.0

1.3.1 SEQUENCE/DIRECTION OF PROGRESSIVE OPERATION

PROGRESSIVE REHABILITATION WILL BE COMPLETED IN DIRECT CORRELATION TO THE DEVELOPMENT OF THE PIT AS THE EXTRACTION LIMITS ARE REACHED AND ENOUGH AREA IS AVAILABLE TO ENSURE THAT THE PRODUCTION, STOCKPILING AND PROCESSING OF AGGREGATE MATERIALS WILL NOT INTERFERE WITH REHABILITATION ACTIVITIES.

THE WESTERN BOUNDARY IS COMMON WITH CAVANAGH'S PINE GROVE PIT. TIMING FOR REHABILITATION OF THE WESTERN FACE WILL BE COORDINATED BETWEEN BOTH PITS. AS SUCH, NO TIMING FOR THE START OF PROGRESSIVE REHABILITATION OF THE WESTERN FACE IS PROPOSED.

1.3.2 USE OF OVERBURDEN IN PROGRESSIVE REHABILITATION

TOPSOIL OR OVERBURDEN STRIPPED IN THE OPERATION OF THE SITE WILL BE USED IN THE REHABILITATION OF THE SIDE SLOPES OF THE PIT. STRIPPED TOPSOIL AND OVERBURDEN MAY ALSO BE UTILIZED IN VARIOUS OPERATION REQUIREMENTS PRIOR TO REHABILITATION (I.E., NOISE MITIGATION BERMS).

1.3.3 VEGETATION TO BE ESTABLISHED DURING PROGRESSIVE REHABILITATION

SLOPES WILL BE SEEDED WITH A MIX OF GRASSES AND LEGUMES CONSISTING OF NON-INVASIVE SPECIES TO PREVENT EROSION. THE FINAL DETAILS OF THE PLANTING PROGRAM (I.E., SPECIES, NUMBER, SIZE AND SPACING) WILL BE COMPLETED IN CONSULTATION WITH MINISTRY OF NATURAL RESOURCES AND FORESTRY STAFF DURING REHABILITATION OF THE AREA.

1.3.4 & 1.4.2 PIT SLOPING

PIT FACES WILL BE EXCAVATED TO THE EXTRACTION SETBACK LIMITS. 3:1 SIDE SLOPES WILL BE GRADED WITH OVERBURDEN MADE AVAILABLE FROM SITE STRIPPING OPERATIONS AND EXTRACTION. THE PORTION OF THE WESTERN SETBACK THAT IS SUBJECT TO THE COMMON BOUNDARY AGREEMENT WITH THE ADJACENT PIT WILL BE EXCAVATED AND BLENDED WITH THE FINAL ELEVATION OF THE ADJACENT PIT.

THE AGGREGATE MATERIAL AT THE NORTHERN EXTENT OF THE EXTRACTION AREA WOULD BE REMOVED TO WITHIN 10 METRES OF THE LICENSE BOUNDARY IN 50-METRE SECTIONS. WHEN EACH 50-METRE SECTION HAS BEEN EXTRACTED, THE EXTRACTED AREA WOULD BE BACKFILLED USING OVERBURDEN FROM THE SITE TO REINSTATE A STANDARD 30-METRE SETBACK WITH 3:1 SIDE SLOPES DOWN TO THE PIT FLOOR.

IF STEEP BEDROCK OUTCROPS ARE ENCOUNTERED, SLOPING WILL BE COMPLETED ALONG THE SIDES OF THE EXPOSED ROCK AT 3:1. THE TOPS OF THE BEDROCK OUTCROPS CAN BE LEFT EXPOSED TO PROVIDE FOR ADDITIONAL WILDLIFE HABITAT. MOST OF THE SOUTHERN HALF AND WESTERN SIDE OF THE PIT WILL BE EXCAVATED TO THE BEDROCK SURFACE, AND THE FLAT LYING PORTIONS OF EXPOSED BEDROCK WILL BE COVERED WITH TOPSOIL AND REVEGETATED.

1.3.5 PROGRESSIVE REHABILITATION IN RELATION TO SITE OPERATIONS

PROGRESSIVE REHABILITATION WILL BE COMPLETED IN DIRECT CORRELATION TO THE DEVELOPMENT OF THE PIT AS THE EXTRACTION LIMITS ARE REACHED AND ENOUGH AREA IS AVAILABLE TO ENSURE THAT THE PRODUCTION, STOCKPILING AND PROCESSING OF AGGREGATE MATERIALS WILL NOT INTERFERE WITH REHABILITATION ACTIVITIES.

1.3.6 & 1.4.1 IMPORTATION OF TOPSOIL OR MATERIAL TO FACILITATE REHABILITATION

ALL TOPSOIL AND OVERBURDEN STRIPPED IN THE OPERATION OF THE SITE WILL BE USED IN THE REHABILITATION OF THE SITE. WHERE INSUFFICIENT QUANTITIES OF NATIVE TOPSOIL AND/OR OVERBURDEN ARE AVAILABLE FOR REHABILITATION, CLEAN FILL MAY BE IMPORTED FOR USE IN THE ESTABLISHMENT OF THE FINAL REHABILITATION CONTOURS OUTLINED IN THIS PLAN. IT IS THE RESPONSIBILITY OF THE LICENSEE TO ENSURE THAT ALL MATERIALS IMPORTED FOR REHABILITATION ARE IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES AND THE REQUIREMENTS OF THE APPLICABLE REGULATORY AGENCIES AT THE TIME OF FILL IMPORTATION. DOCUMENTATION WITH RESPECT TO THE SOURCE, QUANTITY AND QUALITY OF IMPORTED FILL MATERIAL WILL BE RETAINED BY THE LICENSEE AND MADE AVAILABLE UPON REQUEST BY THE APPLICABLE REGULATORY AGENCY. THE IMPORTATION OF MATERIAL MUST BE NOTED ON THE ANNUAL COMPLIANCE ASSESSMENT REPORT.

1.4.3 VEGETATION TO BE ESTABLISHED DURING FINAL REHABILITATION

FINAL REHABILITATION OF GRADED/SLOPED AREAS OF THE PIT WILL BE VEGETATED IN A MANNER SIMILAR TO THAT INITIATED DURING PROGRESSIVE REHABILITATION (SEE NOTE 1.3.3). PIT FLOOR COVERAGE WILL OCCUR PROGRESSIVELY AS AN AREA BECOMES UNUSED. THE FINAL DETAILS OF THE REHABILITATION PLANTING PROGRAM SHALL BE ESTABLISHED IN CONSULTATION WITH MINISTRY OF NATURAL RESOURCES AND FORESTRY STAFF JUST PRIOR TO FINAL REHABILITATION TO ENSURE THAT THE PLAN IS APPROPRIATE FOR CONDITIONS AT THE TIME.

1.4.4 BUILDINGS/STRUCTURES REMAINING ON SITE

NO BUILDINGS/STRUCTURES WILL REMAIN ON SITE FOLLOWING FINAL REHABILITATION.

1.4.5 ANTICIPATED ELEVATION OF GROUNDWATER

THE ANTICIPATED ELEVATION OF THE WATER TABLE AT THE NORTH END OF THE PIT WILL REMAIN BETWEEN 147.42 MASL AND 148.36 MASL (I.E., THE SAME AS THE RANGE PREVIOUSLY OBSERVED AT MONITORING WELL LOCATION BH17-1) AND WOULD BE LOCATED WITHIN THE OVERBURDEN MATERIAL. AS THE SOUTH END OF THE PIT, THE ANTICIPATED WATER TABLE ELEVATION WOULD BE APPROXIMATELY 142.8 MASL (I.E., BASED ON THE GROUNDWATER LEVEL MEASURED AT BH18-2) AND WOULD BE LOCATED WITHIN THE BEDROCK.

1.4.6 INTERNAL HAUL ROADS

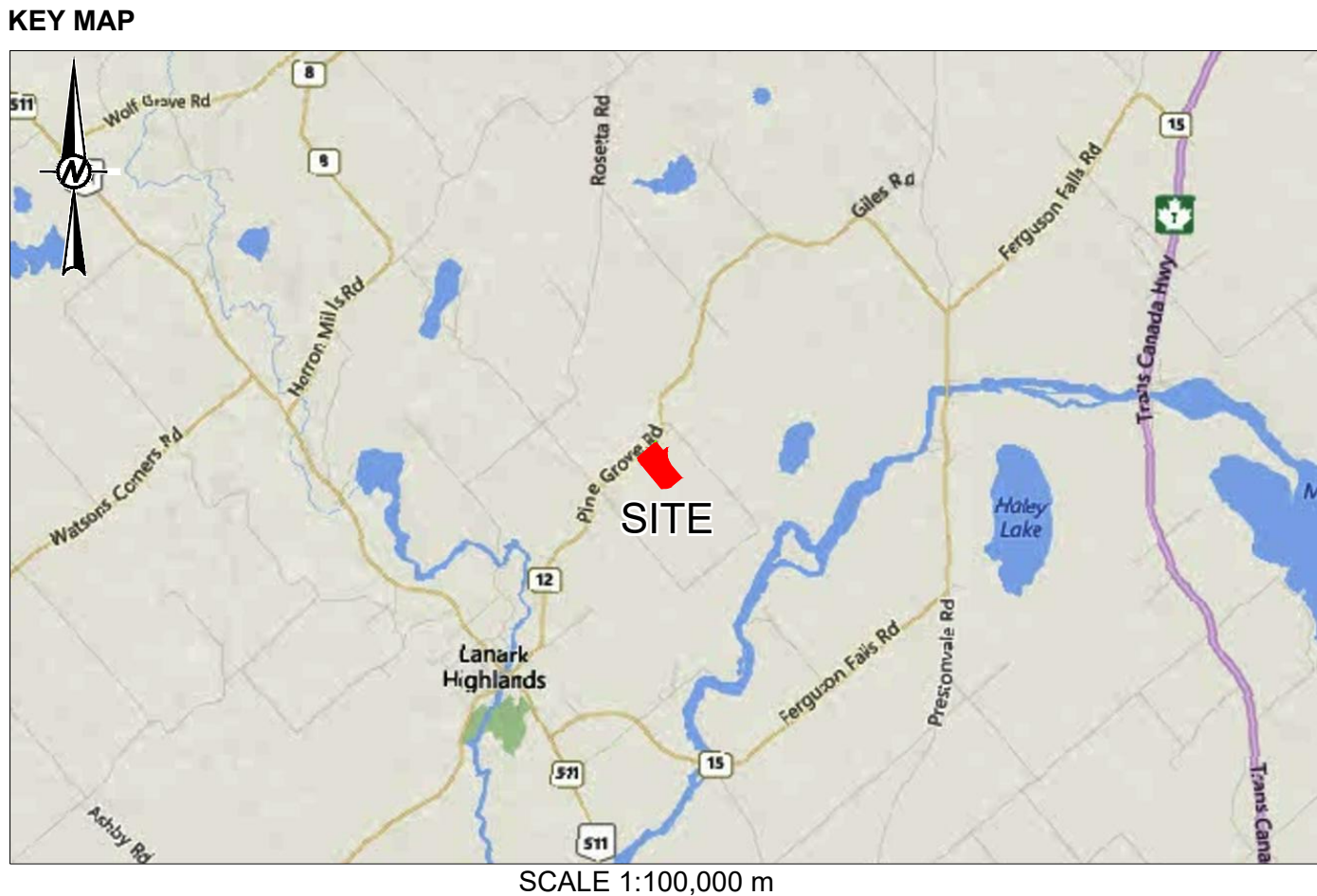
INTERNAL HAUL ROADS WILL BE REMOVED.

1.4.7 FINAL SURFACE WATER DRAINAGE

FOLLOWING REHABILITATION, THERE WILL BE NO OFF-SITE SURFACE WATER DRAINAGE

1.4.8 LOCATIONS OF CROSS-SECTION

REFER TO DRAWING (THIS PAGE) FOR LOCATION OF CROSS-SECTION.



ARNOTT PIT
PART OF LOT 3, CONCESSION 5
IN THE GEOGRAPHIC TOWNSHIP OF LANARK,
TOWNSHIP OF LANARK HIGHLANDS, ONTARIO

APPLICANT:
THOMAS CAVANAGH CONSTRUCTION LIMITED
9094 CAVANAGH ROAD
ASHTON, ONTARIO
K0A 1B0

- NOTE(S)**
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 2. AREA OF OPERATION, ARNOTT PIT **18.5** HECTARES.
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- LEGEND**
- BOUNDARY OF AREA TO BE LICENCED
 - - - LIMIT OF EXTRACTION
 - - - - - 120-METRE SURROUND
 - × 148.20 FINAL REHABILITATED PIT FLOOR ELEVATION (masl)
 - ⊕ BOREHOLE / MONITORING WELL
 - ▲ PRIVATE WELL (AS PER MINISTRY OF ENVIRONMENT, CONSERVATION AND PARKS WATER WELL INFORMATION SYSTEM)
 - CON 5, LOT 3
CON 5, LOT 2 LOTS AND CONCESSION LINES
 - - - ADJACENT PIT AND QUARRY BOUNDARY
 - H B- BARN, S-SHED, O-OFFICE, SC-SCALE HOUSE
 - x x PAGE WIRE FENCE/GATE
 - o o CEDAR RAIL FENCE/GATE
 - ROAD: PAVED
 - - - - - ROAD/DRIVEWAY: UNPAVED
 - UTILITY POLE
 - POND
 - 160 CONTOURS/INDEX CONTOURS
 - WOODED AREA
 - A-A' CROSS-SECTIONS
 - ▲ PRIMARY ENTRANCE
 - ▲ PRIMARY EXIT
 - ▲ SECONDARY ENTRANCE/EXIT

- REFERENCE(S)**
1. KEY PLAN: Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community.
 2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2016
 3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

CLIENT
THOMAS CAVANAGH CONSTRUCTION LIMITED

PROJECT
ARNOTT PIT

TITLE
REHABILITATION PLAN

APPLICANT	YYYY-MM-DD	2020-09-24
	DESIGNED	JPAO
	PREPARED	MLF/JM
	REVIEWED	JPAO
	APPROVED	KAM

PROJECT NO. 1671160 PHASE 4000 REV. 0 DRAWING 4 of 4