

**Amendment
of a
Natural Environmental Impact Assessment
dated Feb. 14, 2013**

**for: Cooney Construction
& Landscape Ltd.**

**re:
Pt. Lot 23, Concession III, Darling
Township of Lanark Highlands**

prepared by:
Hans K. von Rosen
Pinegrove Biotechnical
1355 Pine Grove Rd;
Lanark, Ontario, K0G 1K0

Office Tel.: (613) 259-2847
Email: hkvonrosen@gmail.com

Date: 14. November 2020

14.0 Explanation:

This amendment covers an alteration of the western boundary line of the Aggregate Extraction Area. Purpose of the line relocation is to utilize the “natural indicator” of an already existing old farm road as a boundary marker. A field inspection on Sept. 24, 2020 established the following:

The revised line, i.e. the old farm road, is situated north and outside of of the DARLING FOREST, which is a SIGNIFICANT LIFE SCIENCE ANSI.

The old farm road lies at the foot of the glacial deposit, which constitutes the aggregate. The road marks a noticeable change in tree species composition.

Craigs Creed, a coldwater stream west of the aggregate area, contains a naturally reproducing Brook Trout population.

The amendment will NOT impact the Darling Forest ANSI.

The amendment will NOT impact the recorded species composition of the ANSI.

The amendment will NOT impact the coldwater re-charge of the trout stream.

The amendment will reduce the “Adjacent Area” setback from a generic 120m to 70m, 55m, 50m and 70m respectively, for a length of 220m between the old road to the ANSI boundary.

No negative impacts upon significant Natural Heritage Values are foreseen by reducing the Adjacent Area to the location of the old farm road.

Outstanding issues which were flagged in the 2013 EIS, such as Species At Risk (SAR) assessments for Meadowlark, Bobolink and Whip-poor-will and Blandings Turtles, were covered in the 2019 Addendum to the EIS.

15.0 Summary of GPS Positions, (NAD 1983)
2013, 2019, & 2020

taken in 2013		NAD 1983		
Wpt. station	description	easting	northing	comments
040		373866	5008007	gate
041		373657	5007814	SW bdy. jog lot 22
042		373525	5007901	N of open slew
042 B	80 m south			S side of slew
042 C	60 m W			W of slew, timber ridge in ANSI
043		373393c	5007871	SW corner chg, old timber road W
044		373403	5007816	ANSI tongue, mx. conf. & hdwd.
045		373354	5007952	open hill top, steep drop west
046		373534	5008074	open top ridge, 3 pegs
047		373638	5008078	single peg

taken in 2019		NAD 1983	
Stn.	description	easting	northing
#1	25m north-east of SW wetland, on old trail, 100m from ANSI	373521	5007931
#2	NW trail, 90m from ANSI, young mixed conifer & intolerant hardwoods re-colonizing formerly cleared grasslands east, mixed age tol. hdwds and conifer west.	373449	5007895
#3	west loop of trail, 150m north of ANSI, 210m east of Craigs Creek old trail turns east, mixed age tol. hdwd. forest, between 2 ridges.	373131	5007950
#4	within prop. lic. area. open grassland, single free standing Bn 45 years old, showing canker	373441	5008006
#5	on proposed bdy. line, turning E. open grass area	373537	5008072

taken in 2020		NAD 1983			
Wpt. #.	description	easting	northing	latitude	longitude
113	truck stop NE of small wetland patch	373592	5007920	45d 12.805	076d 36.591
114	turn on road to 240 deg. mag	373533	5007931	45d 12.811	076d 36.635
115	30m n of small wetland patch	373498	5007901	45d 12.794	076d 36.662
116	on old road	373441	5007890	45d 12.787	076d 36.705
117	on old road, bottom of hill	373359	5007887	45d 12.785	076d 36.768
118	turn more northerly, SW of aggreg.	373338	5007889	45d 12.786	076d 36.784
119	wetland edge, off old road	373369	5007796	45d 12.736	076d 36.759

16.0 Boundary Amendment (see item 10.0 of the EIS)

- * The amended boundary follows an historic farm road, starting from Wpt. 113, which is situated north-east of a small wetland. This wetland is not a part of the ANSI;
- * proceeding westerly for about 50m, and with a 30m offset from the wetland patch to Wpt. 114,
- * thence WSW on 240 deg.mag to Wpt 115,
- * thence further westerly on the old road to Wpt's. 116, 117 and 118
- * then north-westerly to connect with the original extraction area boundary,
(see *Stn. 3 of the original EIS*).

Note: Wpt's 115, 116, and 117 mark the westerly edge of the deposit.

17.0 Landscape Description

for a more detailed description of vegetation and landscape see items 10.2 and 10.3 of the EIS dated Sept. 2019, repeated below.

10.2 South-western boundary line, (section two)

This boundary more or less follows an overgrown historic farm road, starting at Stn 1, 35m north of a small wetland pond, and running at 280 deg mag. for about 120m to Stn.2. It marks the westerly edge of the glacio-fluvial outwash deposit of gravel and sand found in the centre of the subject area. At Stn.2 this road is situated approximately 90m NNE of the edge of the ANSI.

10.3 Westerly loop, (section 3)

*Near Stn. 2 the road swings westerly for about 220m in a valley between a high sandy hill to the north and a moderate rise to the south. Timber cover on both sides of the road consists of mature *Mh. Aw, Or, Bd, Iw*. Ground vegetation is bracken fern and ephemeral spring flowers. Particular attention was paid to confirm presence or absence of species at risk, such as *American Ginseng END* and orchids such as *Yellow Ladyslipper SC*. None were sighted. The valley marks the edge of the outwash deposit. Setback from the edge of the ANSI is about 90m.*

18.0 SAR concerns within the amendment:

- Bobolink END and E. Meadowlark END, two grassland bird species..... none.
- (a) The mature forest habitat south of the old farm road is unsuitable for grassland birds.
- (b) The meandering early morning transect carried out with assistance of a flushing dog in Sept. 2019 did not reveal either Bobolink or Meadowlarks in the semi open shrublands north of Stn. 2 (2019), which is almost identical to Wpt. 116 (2020).....
The species considered not present.

Whip-poor-will END, a nocturnal insectivorous bird..... unknown.

According to the endangered species protocol, W/PW assessments are to be carried out in the prime calling season of the species; i.e. between late May to early July, about one hour after sunset or one hour before sunrise respectively, at a night when the moon is visible.

Assessments during the “shoulder season” i.e. July or August are deemed less reliable.

Since all field work on the subject lands was carried out in the “shoulder seasons” namely Sept. 2013, Sept. 2019 and October 2020, the absence of the species on the subject lands is not confirmed.

Note: W/PW have declined significantly in Lanark Highlands since about 1990, and are not expected to be present. (*pers. observation H.v.R.*)

Blandings Turtles END and Snapping Turtles SC: not seen

Both species migrate relatively long distances from open aquatic habitat, to warm grass covered incubation areas.

Note: Travel through cool micro climates such as conifer belts are generally avoided (*personal knowledge H.v.R.*)

Since the setback of open water of Craigs Creek from the closest point of the proposed amended pit boundary is 190 m (Wpt. 118) and larger at Wpt. 117, 116, & 115, and since the near-water side of the 60m wide ANSI Adjacent Area is predominantly cedar covered, the presence of Blandings and Snapping Turtles in the open grasslands north of the proposed new boundary line is considered unlikely.

Other Species At Risk

Yellow Ladyslipper SC, Ginseng END, Butternut END..... none, covered under 11.3 EIS

19.0 ANSI Setbacks:

The amendment will shift the south-westerly boundary of the extraction area southward and onto the existing old farm road.

This will reduce the ANSI “Adjacent Area” Setback from a generic 120m, to 60m at Wpt. 115, 50m at Wpt. 116 and 90m at Wpt. 117 respectively, over a length of 220m between the old road to the ANSI boundary. No negative impacts upon the ANSI or upon other significant Natural Heritage Values are foreseen.

20.0 Conclusion.

Boundary Adjustment

Adjusting the south-western boundary southward to the old farm road between W/pt. 113 to 118 (of 2020), and thereafter to continue along the previously established line as outline by the land survey of G.A.Smith Surveying Ltd. is recommended.

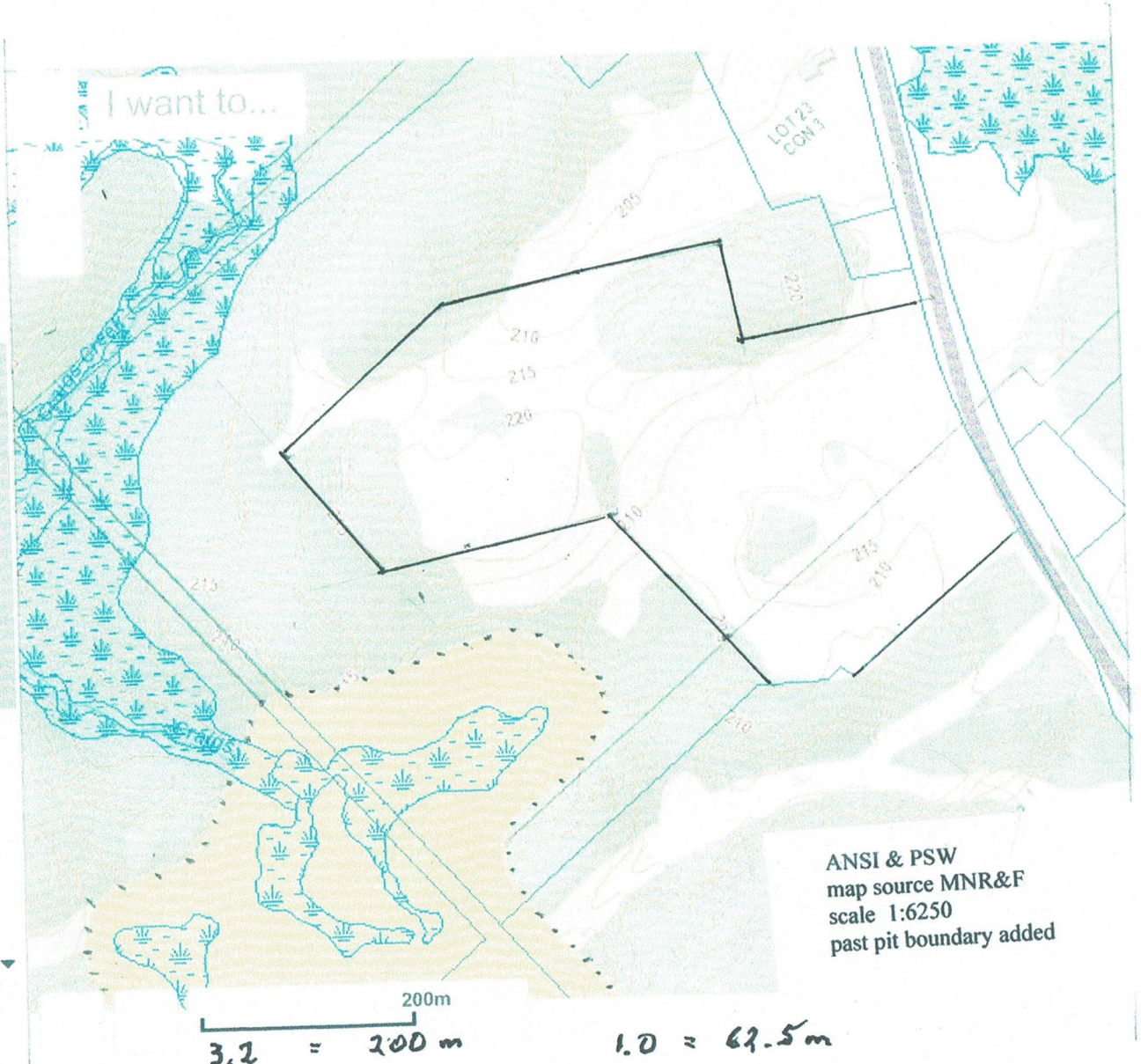


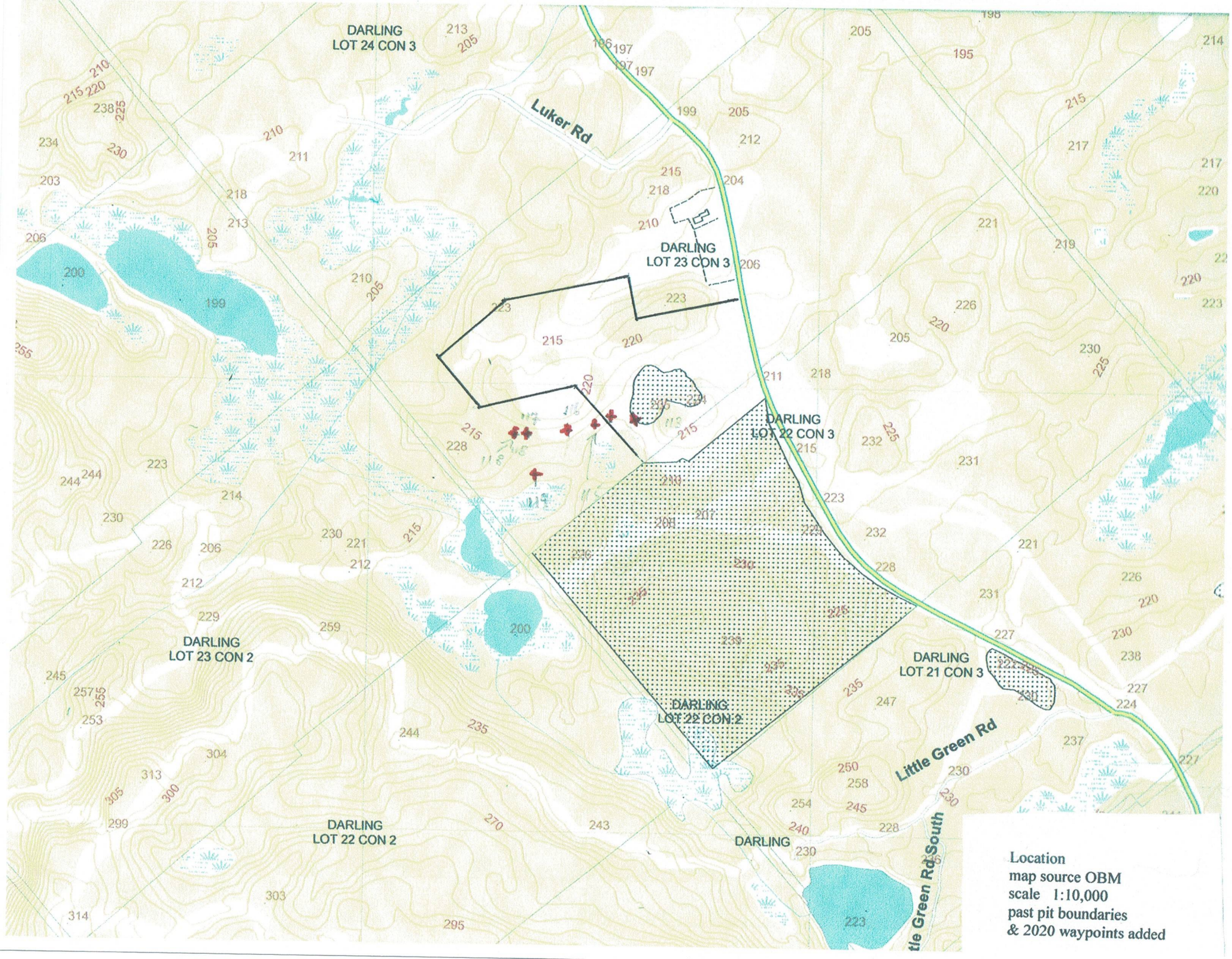
Hans von Rosen
Pinegrove Biotechnical



Select Map Layers

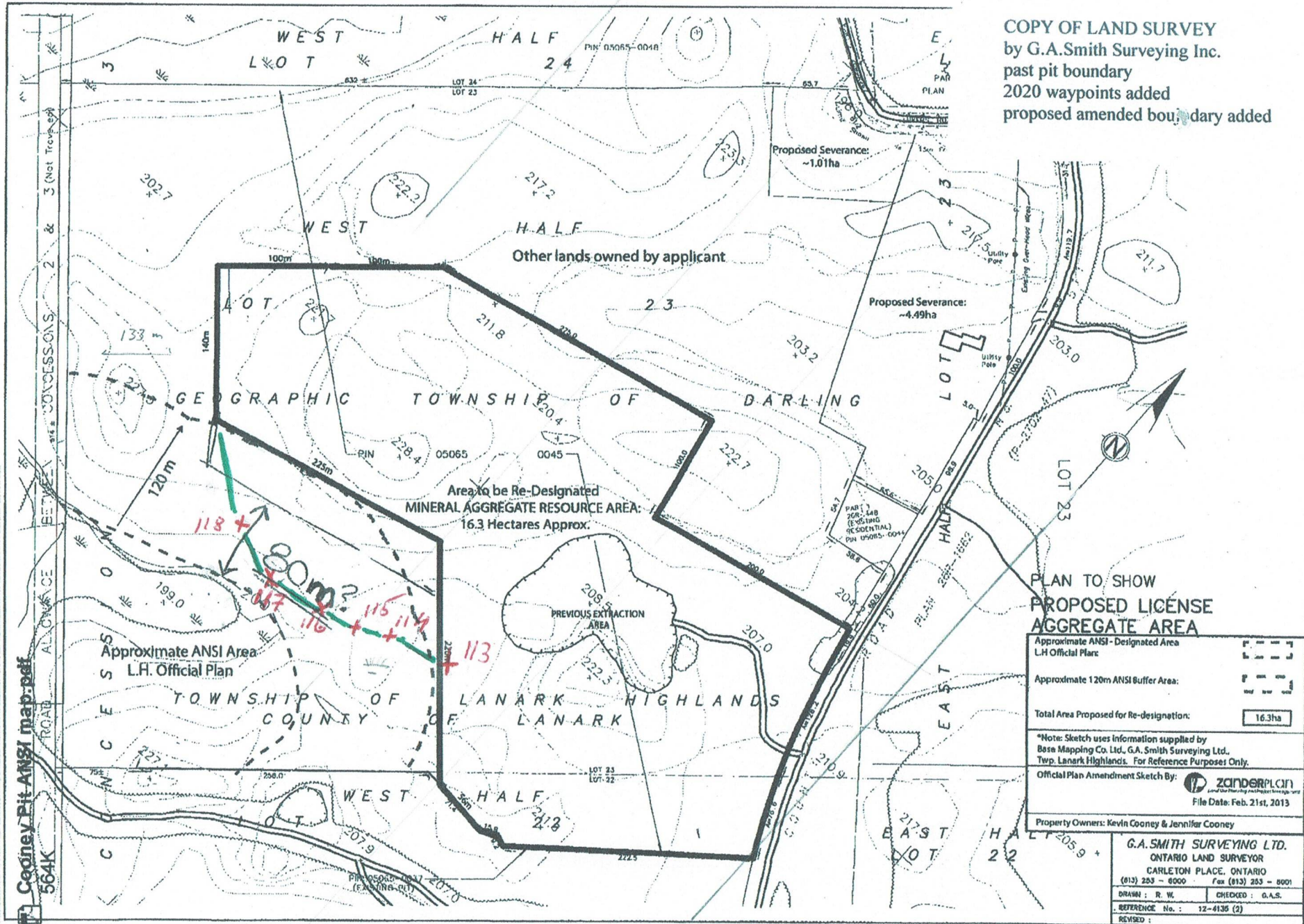
- UKM Boundary
- NEP Boundary
- NEP Parks and Open Space System
- NEP Minor Urban Centres
- Greenbelt Hamlets
- Greenbelt External Connections
- Wetland
- Woodland
- ANSI
- Conservation Reserve
- Provincial Park
- Greenbelt Towns and Villages





Location
map source OBM
scale 1:10,000
past pit boundaries
& 2020 waypoints added

COPY OF LAND SURVEY
 by G.A. Smith Surveying Inc.
 past pit boundary
 2020 waypoints added
 proposed amended boundary added



PLAN TO SHOW
 PROPOSED LICENSE
 AGGREGATE AREA

Approximate ANSI - Designated Area L.H. Official Plan:	
Approximate 120m ANSI Buffer Area:	
Total Area Proposed for Re-designation:	16.3ha
*Note: Sketch uses information supplied by Base Mapping Co. Ltd., G.A. Smith Surveying Ltd., Twp. Lanark Highlands. For Reference Purposes Only.	
Official Plan Amendment Sketch By:	ZANDER PLC Land Surveying and Mapping Services File Date: Feb. 21st, 2013
Property Owners: Kevin Cooney & Jennifer Cooney	
G.A. SMITH SURVEYING LTD. ONTARIO LAND SURVEYOR CARLETON PLACE, ONTARIO (913) 253 - 8000 Fax: (913) 253 - 8001	
DRAWN: R. W.	CHECKED: G.A.S.
REFERENCE No.: 12-4135 (2)	
REVISED:	

13.04 = 620 m