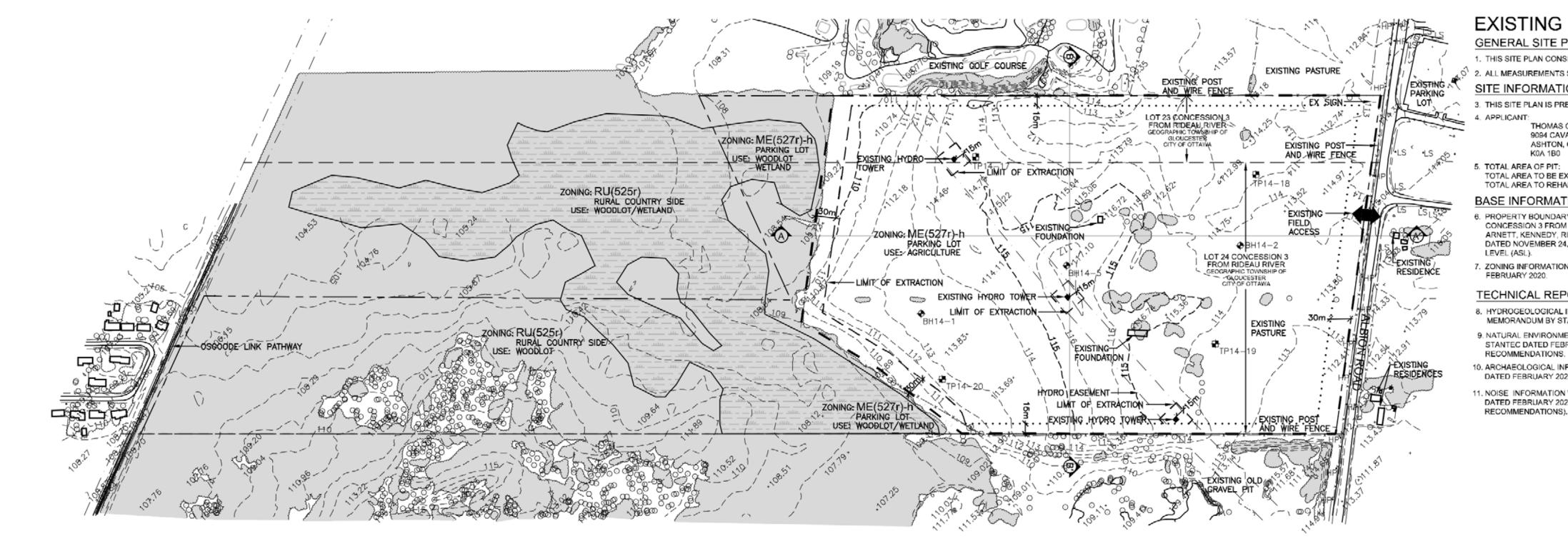
OTTAWA AIRPORT AUTHORITY, PARCEL 'C' - 4788 ALBION RD PROPOSED AGGREGATE OPERATION



CAVANAGH OTTAWA AIRPORT PIT







-PLANT MILKWEED-

IN SETBACKS

SILT FENCE

(SEE PHASE

A NOTE 5)

ACOUSTICAL -

BARRIER #5 -

5m (30m FROM

CRUSHING PLANT

(SEE PHASE A

AND OTHER NECTAR

PRODUCING PLANTS

EXISTING FEATURES NOTES

GENERAL SITE PLAN INFORMATION

1. THIS SITE PLAN CONSISTS OF 2 DRAWINGS AND MUST BE READ COLLECTIVELY. 2. ALL MEASUREMENTS SHOWN ON THIS SITE PLAN ARE IN METRES.

SITE INFORMATION

3. THIS SITE PLAN IS PREPARED FOR SUBMISSION TO THE CITY OF OTTAWA. APPLICANT: THOMAS CAVANAGH CONSTRUCTION LTD. 9094 CAVANAUGH ROAD,

K0A 1B0 5. TOTAL AREA OF PIT: TOTAL AREA TO BE EXTRACTED: 33.0 ha

ASHTON, ONTARIO

TOTAL AREA TO REHABILITATED: 33.0 ha BASE INFORMATION

PRÓPERTY BOUNDARY INFORMATION FOR PART OF LOTS 23 AND 24. CONCESSION 3 FROM RIDEAU RIVER, CITY OF OTTAWA WAS OBTAINED FROM ARNETT, KENNEDY, RIDDELL AND JASON SURVEYING LTD. LEGAL SURVEY, DATED NOVEMBER 24, 1988. ALL ELEVATIONS ARE GEODETIC AND ABOVE SEA

7. ZONING INFORMATION OBTAINED FROM GEOOTTAWA ONLINE MAPPING WEBISTE

TECHNICAL REPORT

- 8. HYDROGEOLOGICAL INFORMATION WAS OBTAINED FROM TECHNICAL MEMORANDUM BY STANTEC. DATED DECEMBER 2019.
- 9. NATURAL ENVIRONMENT INFORMATION WAS OBTAINED FROM REPORT BY STANTEC DATED FEBRUARY 2020 (SEE PAGE 2 OF 2 FOR TECHNICAL RECOMMENDATIONS
- 10. ARCHAEOLOGICAL INFORMATION WAS OBTAINED FROM REPORT BY STANTEC DATED FERRIARY 2020 (SEE PAGE 2 OF 2 FOR TECHNICAL RECOMMENDATIONS 1. NOISE INFORMATION WAS OBTAINED FROM REPORT BY FREEFIELD LTD. DATED FEBRUARY 2020 (REFER TO SHEET 1 OF 2 FOR TECHNICAL

AREA A AREA A NOTES

BERM #3-4M

PROPOSED -

ACOUSTICAL

ACOUSTICAL -

BERM #1+5M

ENTRANCE/EXI

OFFICE/SCALEHOUSE ---

STORAGE BERM

- ESTABLISH ENTRANCE/ EXIT FROM ALBION ROAD WHERE SHOWN ON SITE PLANS, ACCORDING TO MUNICIPAL STANDARDS AND APPROVALS.
- PRIOR TO OPERATIONS COMMENCING IN AREA A, UPGRADE (IF NECESSARY) FENCING ON THE BOUNDARY OF THE GRAVEL PIT AND INSTALL MARKER POSTS AS SHOWN (SEE OPERATIONAL NOTE #10 FOR EXCEPTIONS). ALL FENCING SHALL BE MAINTAINED.
- PRIOR TO OPERATIONS COMMENCING ON SITE THE LIMITS OF THE WOODLAND BUFFER SHOULD BE FLAGGED AND CLEARLY MARKED BY A QUALIFIED PERSON. THE CITY OF OTTAWA WILL BE NOTIFIED, SHOULD CITY STAFF WISH TO CONFIRM THE BOUNDARIES.
- BEGIN STRIPPING TOPSOIL AND/OR OVERBURDEN SEPARATELY FROM AREA A AND USE THE MATERIAL TO CONSTRUCT ACOUSTIC BERMS AS SHOWN, EXCESS MATERIAL MAY BE STOCKPILED ON THE PIT FLOOR OR STORED IN STORAGE BERMS AS SHOWN.
- . PLANT COMMON MILKWEED AND OTHER NECTAR PRODUCING PLANTS IN THE SETBACKS (SEE NER TECHNICAL RECOMMENDATIONS PAGE 2 OF 2) AND INSTALL SILT FENCE ALONG 30m WOODLAND SETBACK WHEN OPERATIONS ARE WITHIN 50m OF THE WOODLAND
- 6. BEGIN EXTRACTION IN AREA A IN DIRECTION SHOWN. TEMPORARY STOCKPILES MAY BE LOCATED ON PIT FLOOR NEAR THE PIT FACE DURING EXCAVATION OF
- 7. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION.

AREA B AREA B NOTES (NOT SHOWN)

- 1. BEGIN STRIPPING TOPSOIL AND/OR OVERBURDEN SEPARATELY FROM AREA B AND USE THE MATERIAL TO BEGIN PROGRESSIVE REHABILITATION OF AREA A.
- 2. PROGRESSIVE REHABILITATION OF AREA A WHILE EXTRACTING AREA B.
- REHABILITATION IN AREA B USING MATERIAL STORED IN BERMS.
- 4. REMOVE ALL EQUIPMENT, STRUCTURES AND SCRAP FROM THE SITE AND REHABILITATE ALL HAUL ROADS.

OPERATIONS NOTES

GENERAL INFORMATION

THIS PLAN DEPICTS A SCHEMATIC OPERATIONS AND REHABILITATION SEQUENCE FOR THIS PROPERTY BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION. AREAS SHOWN ARE SCHEMATIC AND MAY SLIGHTLY VARY WITH MATERIAL QUALITY, SITE HYDROLOGY AND HYDROGEOLOGY OR MARKET DEMAND. AREAS DO NOT REPRESENT ANY SPECIFIC OR EQUAL TIME PERIOD.

EXTRACTION SHALL GENERALLY FOLLOW THE SEQUENCE SHOWN. WHEN PARTIAL REHABILITATION OF A AREA IS POSSIBLE IT SHALL BE CARRIED OUT. NOT WITHSTANDING THE EXTRACTION AND REHABILITATION PROCESS ABOVE, DEMAND FOR CERTAIN PRODUCTS OR BLENDING OF MATERIALS MAY REQUIRE SOME DEVIATION IN THE EXTRACTION AND REHABILITATION AREAS.

EXTRACTION/PROCESSING/HAULING INFORMATION TOTAL AREA TO BE EXTRACTED IS 33.8 HECTARES.

3. MAXIMUM NUMBER OF TONNES OF AGGREGATE TO BE REMOVED FROM THE SITE IN ANY CALENDAR YEAR IS 250,000 TONNES. TONNAGE AMOUNT MAY BE TEMPORARILY AMENDED FOR SPECIFIC PROJECTS.

EXTRACTION OF SAND AND GRAVEL WILL TAKE PLACE IN ONE OR TWO BENCHES, WITH A MAXIMUM HEIGHT OF ±6 METRES. THE GROUNDWATER TABLE IS ESTIMATED TO BE BETWEEN ± 107.7 AND 109.3m ASL (SEE HYDROGEOLOGICAL TECHNICAL MEMO BY STANTEC DATED DECEMBER 2019). MATERIAL FROM AREAS A AND B MAY BE EXTRACTED SIMULTANEOUSLY TO BLEND CUSTOM PRODUCTS AS MARKET

OTHER SITE ACTIVITIES WILL INCLUDE CRUSHING, WASHING, STRIPPING AND REHABILITATION, OPERATIONAL EQUIPMENT MAY INCLUDE TRUCKS, LOADERS, EXCAVATOR, BACKHOES, BULLDOZERS, SCRAPERS, CONVEYORS AND OTHER RELATED EQUIPMENT. PRODUCT STOCKPILES WILL BE LOCATED ON

MATERIAL FROM OTHER PROPERTIES MAY BE IMPORTED INTO THE SITE FOR BLENDING CUSTOM PRODUCTS AND/OR RESALE.

4. OFFICE/STORAGE BUILDING AND/OR SCALE/SCALEHOUSE MAY BE CONSTRUCTED WHERE SHOWN.

HYDROGEOLOGICAL INFORMATION

5. THE WATER TABLE ELEVATION VARIES ACROSS THIS LICENCE FROM APPROXIMATELY ±107.7 - ± 109.3m ABOVE SEA LEVEL (A.S.L.), BASED ON THE HYDROGEOLOGICAL TECHNICAL MEMORANDUM (SEE ABOVE). REFER TO SECTIONS ON SHEET 2 OF 2.

6. SURFACE DRAINAGE WILL BE DIRECTED TO LOW AREAS FOR WATER TO INFILTRATE INTO THE GRANULAR MATERIALS ON THE PIT FLOOR. THERE WILL BE NO OFF-SITE DITCHING/ DISCHARGE.

NOISE MITIGATION INFORMATION

SITE PREPARATION AND REHABILITATION: EXCAVATION AND PROCESSING 07:00-19:00 07:00-19:00

AIR QUALITY INFORMATION 8. WATER WILL BE APPLIED TO INTERNAL HAUL ROADS AND PROCESSING AREAS AS OFTEN AS REQUIRED

TO MITIGATE DUST.

SITE MANAGEMENT INFORMATION MAINTENANCE/ PROTECTION OF VEGETATION INFORMATION

EXISTING VEGETATION SHALL BE MAINTAINED IN A HEALTHY VIGOROUS GROWING CONDITION UNTIL SEQUENTIAL STRIPPING BEGINS OR UNTIL THE REHABILITATION IS COMPLETE. ANY VEGETATION PLANTED AS PART OF SITE IMPROVEMENTS OR PROGRESSIVE AND FINAL REHABILITATION WILL ALSO BE MAINTAINED IN A HEALTHY, VIGOROUS GROWING CONDITION (SEE NATURAL ENVIRONMENT TECHNICAL RECOMMENDATIONS PAGE 2 OF 2).

FENCING AND DEMARCATION INFORMATION

10. BOUNDARIES OF THE PIT THAT ARE PRESENTLY FENCED ARE SHOWN ON DRAWING 1 OF 2 EXISTING FEATURES. THE WEST BOUNDARY ALONG THE WOODED FEATURE SHALLBE CLEARLY MARKED DUE TO THE EXISTING VEGETATION MAKING THIS BOUNDARY INACCESSIBLE. SILT FENCING WILL BE CONSTRUCTED ONCE STRIPPING OCCURS WITHIN 50m OF THE SETBACKS ADJACENT TO THE NATURAL HERITAGE FEATURES IDENTIFIED ON SITE. THE 30m SETBACK ADJACENT THE WOODED AREA NATURAL FEATURE SHALL BE DEMARCATED WITH HIGHLY VISIBLE MARKER POSTS AT INTER-VISIBLE DISTANCES. ALL FENCING AND MARKER POSTS SHALL BE MAINTAINED UNTIL FINAL REHABILITATION IS COMPLETE.

SETBACKS AND EXTRACTION LIMITS SHALL BE DEMARCATED BY HIGHLY VISIBLE MARKERS A INTER-VISIBLE DISTANCES AND SHALL BE MAINTAINED.

TOPSOIL/SUBSOIL/OVERBURDEN STORAGE INFORMATION TOPSOIL AND OVERBURDEN SHALL BE STRIPPED AND STORED SEPARATELY IN BERMS WITHIN THE SETBACK WHERE SHOWN ON PLAN.

12. BERMS SHALL CREATE AN EFFECTIVE VISUAL BARRIER AND BE A MINIMUM OF ±2.5 METRES ABOVE THE EXISTING GRADE. BERMS SHALL NOT EXCEED 2:1. REFER TO TYPICAL BERM CROSS SECTION ON DRAWING 2 OF 2. ALL BERMS SHALL BE SEEDED (USING GRASS/ LEGUME MIXTURE, SEE REHABILITATION PLAN, NOTE #7) IMMEDIATELY UPON COMPLETION TO MINIMIZE NOISE, DUST AND EROSION.

13. ON COMPLETION OF THE BERMS, EXCESS ON-SITE OVERBURDEN WILL BE USED TO PROGRESSIVELY BACKFILL AND REHABILITATE THE SITE. TOPSOIL CAN BE TEMPORARILY STOCKPILED ON THE PIT FLOOR.

. ALL SCRAP, USED MACHINERY AND STUMPS GENERATED THROUGH THE OPERATIONS WILL BE STORED IN THE PROCESSING AREA, A MINIMUM OF 30m FROM THE BOUNDARY OF THE SITE AND NOT WITHIN 30m OF ANY BODY OF WATER AND SHALL BE DISPOSED OF ON AN ONGOING BASIS. STUMPS/ WOODY MATERIAL MAY BE CHIPPED AND USED FOR SOIL ENHANCEMENT DURING PROGRESSIVE REHABILITATION. TREES WILL BE HARVESTED AND SOLD AS LUMBER OR UTILIZED FOR FIREWOOD AND/ OR THEIR BEST USE. UPON COMPLETION OF EXTRACTION, ALL SCRAP EQUIPMENT AND USED MACHINERY SHALL BE REMOVED.

PETROLEUM STORAGE INFORMATION

-ACOUSTICAL

BARRIER #4

5m (15m FROM____

CRUSHING PLANT

15. FUEL, OIL, RADIATOR AND HYDRAULIC FLUID, AND OTHER CHEMICALS NEEDED FOR THE MAINTENANCE AND FUNCTIONING OF ON-SITE AGGREGATE PROCESSING EQUIPMENT SHALL BE APPROPRIATELY STORED IN ABOVE-GROUND CONTAINERS AND SHALL MEET THE REQUIREMENTS OF THE GASOLINE HANDLING ACT, AS AMENDED, AND THE GASOLINE HANDLING CODE AND REGULATIONS, AS AMENDED BY THE TECHNICAL STANDARDS AND SAFETY ACT (TSSA) AND LIQUID FUELS HANDLING CODE, AND IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT, CONSERVATION, AND PARK'S CHEMICAL STORAGE GUIDELINES. ALL REFUELING SHALL BE WITHIN A CONTAINMENT PAD. ALL SPILLS TO THE ENVIRONMENT MUST BE REPORTED TO THE SPILLS ACTION CENTRE OF MECP. ANY SPILL SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE MECP APPROVED FACILITY.

WITHIN 1.15m OF

NORTH BOUNDARY

AREA B

NO SCREENING ----

WITHIN 150m OF EAST BOUNDARY

EQUIPMENT SHALL BE RE-FUELED A MINIMUM 30m AWAY FROM SENSITIVE NATURAL FEATURES (E.G., WETLANDS) TO AVOID POTENTIAL IMPACTS IF AN ACCIDENTAL SPILLS OCCUR.

IN ORDER TO MAXIMIZE RESOURCE RECOVERY, IMPORTATION OF CLEAN INERT FILL (EG. TOPSOIL AND/OR OVERBURDEN) MAY BE IMPORTED TO FACILITATE AGRICULTURAL REHABILITATION.

IMPORTED MATERIAL SHALL MEET THE MINISTRY OF THE ENVIRONMENT, CONSERVATION, AND PARK'S CURRENT STANDARDS.

WASH PLANT INFORMATION

17. SHOULD A WASH PLANT BE REQUIRED WITH A PREDICTED WATER USAGE OF 50,000 L/DAY OR MORE, PRODUCER WILL APPLY TO THE MECP FOR A PERMIT-TO-TAKE-WATER. THIS PERMIT APPLICATION WILL BE ACCOMPANIED BY THE APPROPRIATE SUPPORTING DOCUMENTATION.

TECHNICAL RECOMMENDATIONS

THE FOLLOWING ARE THE TECHNICAL RECOMMENDATIONS FROM ALL OF THE EXPERTS' REPORTS. ADDITIONAL RECOMMENDATIONS MAY BE INCLUDED AS A RESULT OF THE REVIEW PROCESS.

OUSTIC ASSESSMENT REPORT - FREEFIELD LTD., FEBRUARY 2020 OPERATIONS AT THE PIT SHALL TAKE PLACE ONLY DURING THE DAYTIME PERIOD, 7 A.M. TO 7 P.M.

2. THE OPERATION OF THE SCREENING PLANT SHALL COMPLY WITH THE FOLLOWING:

THE SCREENING PLANT SHALL BE LOCATED ON THE FLOOR OF THE PIT.

- WHEN OPERATING IN AREA A. THERE ARE NO RESTRICTIONS ON THE LOCATION OF THE SCREENING PLANT. WHEN OPERATING IN AREA B. THE SCREENING PLANT SHALL BE AT LEAST 150 M WEST OF THE EASTERN SITE BOUNDARY AND AT LEAST 115 M SOUTH OF THE NORTHERN SITE BOUNDARY.
- THE OPERATION OF THE CRUSHING PLANT SHALL COMPLY WITH THE FOLLOWING:
- THE CRUSHING PLANT SHALL BE LOCATED ON THE FLOOR OF THE PIT.
- THE CRUSHING PLANT SHALL BE LOCATED WITHIN AREA A. THE CRUSHING PLANT SHALL BE SHIELDED BY BERMS 4 AND 5 AS DESCRIBED IN TABLE 7 AND BELOW.
- 4. NOISE BARRIERS OR BERMS ARE TO BE PROVIDED AS FOLLOWS:
- NOISE BARRIERS OR BERMS ARE TO BE PROVIDED AS FOLLOWS. NOTE THAT BERMS 1, 2 AND 3 ARE ONLY REQUIRED WHEN EXCAVATION IS TAKING PLACE IN AREA B

BERM No.	BERM HEIGHT (m)	BERM LENGTH (m
1	5	140
2	5	130
3	4	200
4	5	40
5	5	30

- A NOISE BARRIER MAY BE SUBSTITUTED FOR A BERM, AND VICE VERSA, PROVIDED THAT THE MINIMUM HEIGHT, MINIMUM EXTENT AND LOCATION REQUIREMENTS ARE SATISFIED.
- NOISE BARRIERS OR BERMS ARE TO BE SOLID, HAVING NO GAPS, AND ARE TO HAVE A SURFACE DENSITY OF NO LESS THAN 20 KG/M2. EXAMPLES OF SUITABLE BARRIERS OR BERMS ARE AS FOLLOWS.
- LIFT FACE OR EXISTING TERRAIN. EARTH, GRAVEL OR AGGREGATE BERMS OR STOCKPILES.
- CONCRETE OR BRICK WALLS. COMMERCIAL NOISE BARRIERS
- SHIPPING CONTAINERS.
- 5. IF A NEW PROCESS IS INTRODUCED TO THE SITE, THEN THIS PROCESS SHALL BE ASSESSED BY A QUALIFIED ACOUSTICAL CONSULTANT PRIOR TO COMMISSIONING. NOISE MITIGATION MEASURES SHALL BE REVIEWED, AND ALTERED IF NECESSARY, TO ENSURE THAT CITY OF OTTAWA AND MECP SOUND LEVEL LIMITS ARE MET AT ALL POINTS OF RECEPTION.

= = $\frac{225}{}$ = EXISTING 5m CONTOUR LINE $--\frac{224}{}$ -- EXISTING 1m CONTOUR LINE

EXISTING SPOT ELEVATION

EXISTING VEGETATION

EXISTING WETLAND

EXTRACTION FACE

UNDI\$TURBED AREA

AND OVERBURDEN

— EXISTING 1m CONTOUR LINE

--- x--- EXISTING FENCE

OTTAWA

INTERNATIONAL

KEY MAP

•HP EXISTING HYDRO POLE DIRECTION OF SURFACE WATER DRAINAGE

BOUNDARY OF PIT

PARCEL LINE

SETBACK LINE

EASEMENT LINE

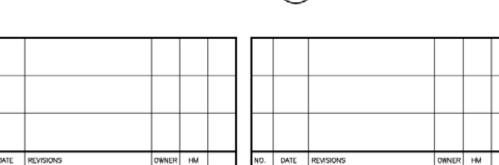
LIMIT OF EXTRACTION

◆ BH 14-5 MONITORING WELL (HOULE CHEVRIER ENGINEERING, 2014 BH 14-5 TEST PIT (HOULE CHEVRIER ENGINEERING, 2014









NO. DATE REVISIONS Pre Approval Review



Project Name

CAVANAGH **OTTAWA AIRPORT**

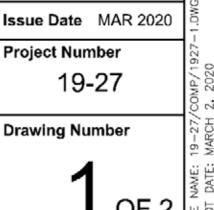
PART OF LOTS 23 AND 24, CONCESSION 3 FROM RIDEAU RIVER GEOGRAPHIC TOWNSHIP OF GLOUCESTER CITY OF OTTAWA

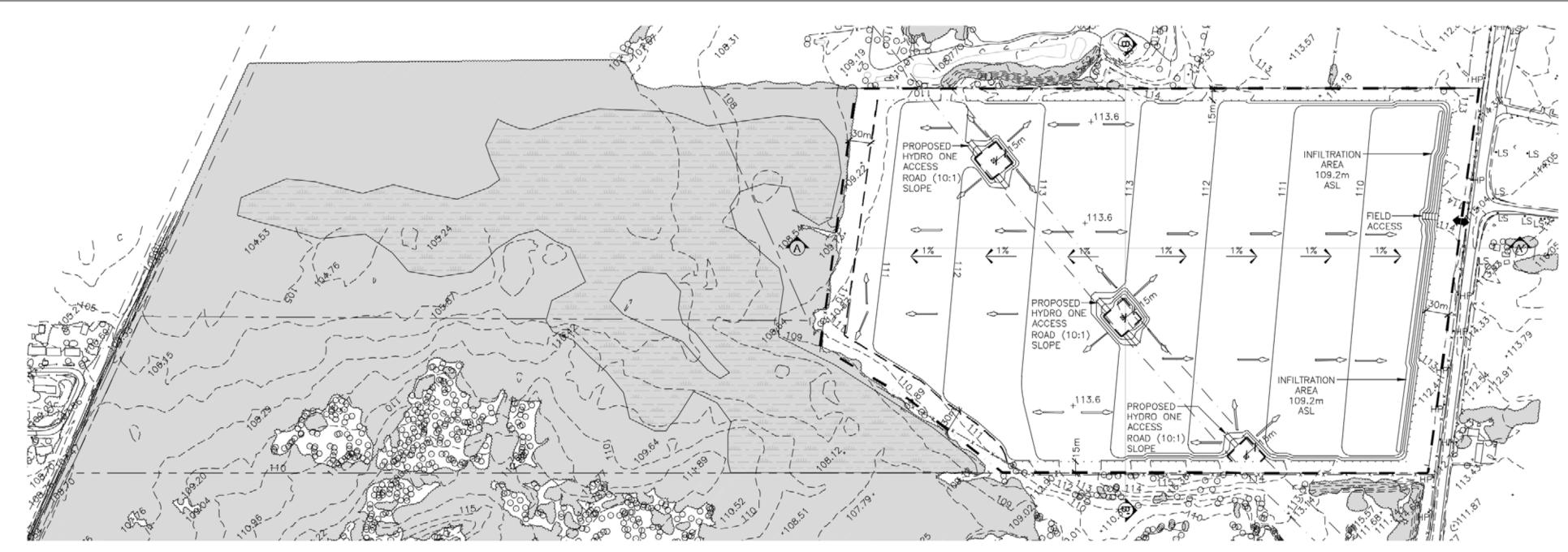
Scale 1:4000 North Stamp Drawing Status PRELIMINARY FOR DISCUSSION Drawn S.B. Issue Date MAR 2020 Checked M.H.

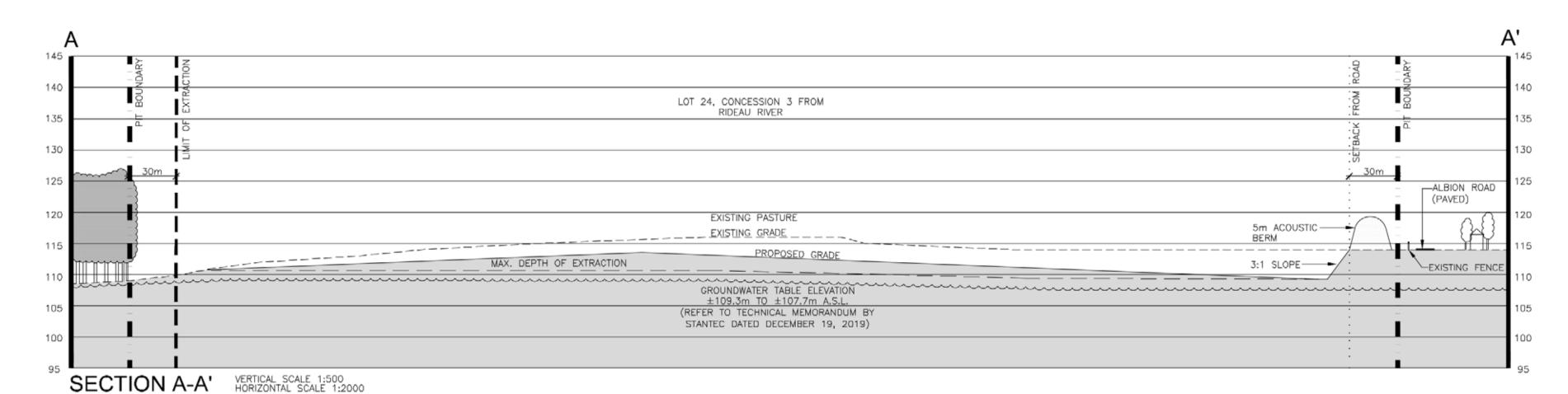
Drawing Title **EXISTING FEATURES**

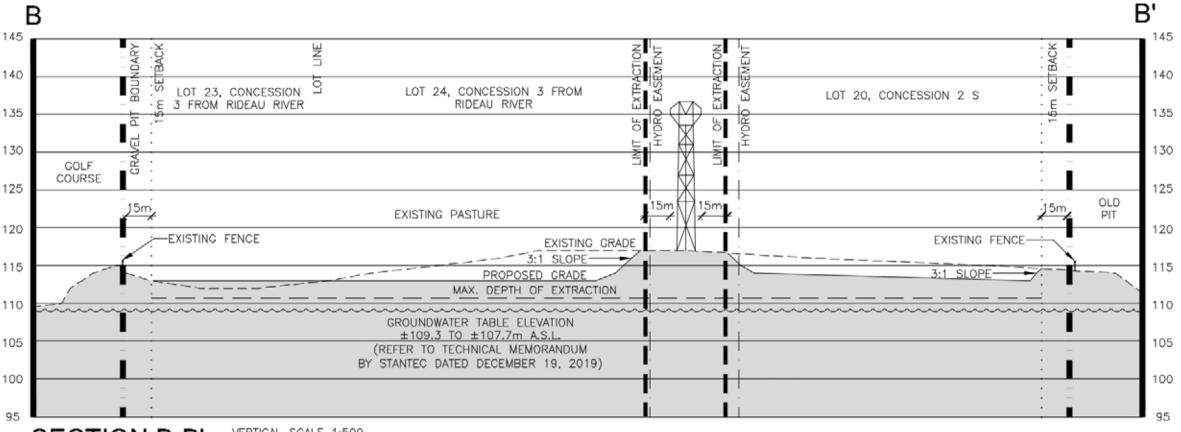
OPERATIONAL PLAN

Drawing Number









SECTION B-B' VERTICAL SCALE 1:500 HORIZONTAL SCALE 1:2000

TECHNICAL RECOMMENDATIONS CONTINUED

ARCHAEOLOGICAL ASSESSMENT - STANTEC DATED FEBRUARY 2020 SHOULD PREVIOUSLY UNDOCUMENTED ARCHAEOLOGICAL RESOURCES BE DISCOVERED, THEY MAY BE A NEW ARCHAEOLOGICAL SITE AND THEREFORE SUBJECT TO SECTION 48(1) OF THE ONTARIO HERITAGE ACT (GOVERNMENT OF ONTARIO 1990B). THE PROPONENT OR PERSON DISCOVERING THE ARCHAEOLOGICAL RESOURCES MUST CEASE ALTERATION OF THE SITE IMMEDIATELY AND ENGAGE A LICENSED CONSULTANT ARCHAEOLOGIST TO CARRY OUT ARCHAEOLOGICAL FIELDWORK, IN COMPLIANCE WITH SECTION 48(1) OF THE ONTARIO HERITAGE ACT (GOVERNMENT OF ONTARIO 1990B).

THE FUNERAL, BURIAL AND CREMATION SERVICES ACT, 2002, S.O. 2002, C.33 (GOVERNMENT OF ONTARIO 2002) REQUIRES THAT ANY PERSON DISCOVERING HUMAN REMAINS MUST NOTIFY THE POLICE OR CORONER AND THE REGISTRAR OF CEMETERIES AT THE MINISTRY OF GOVERNMENT AND CONSUMER SERVICES.

REHABILITATION NOTES

GENERAL INFORMATION

1. REFER TO SHEET 2 OF 2 FOR SECTIONS, SHEET 1 OF 2 FOR OPERATIONS AND AREA DIAGRAMS AND NOTES AND SHEET 2 OF 2 FOR FINAL REHABILITATION AND NOTES.

2. PROPERTY SHALL BE REHABILITATED TO: GRASSLAND/PASTURE

HYDROGEOLOGICAL INFORMATION

3. IT IS ANTICIPATED THAT THE GROUNDWATER ELEVATION ACROSS THE SITE WILL REMAIN RELATIVELY UNCHANGED AT ±109.3m TO 107.7m A.S.L. (REFER TO HYDROGEOLOGICAL TECHNICAL MEMORANDUM).

4. ALL SURFACE DRAINAGE WILL BE DIRECTED TO THE LOW AREAS REMAINING ON THE PIT. FLOOR ON SITE SO THAT THE WATER CAN INFILTRATE INTO THE GRANULAR MATERIALS. THERE WILL BE NO SURFACE DISCHARGE OFFSITE.

SIDESLOPE/MEADOW REHABILITATION INFORMATION

GRADING INFORMATION

5. REHABILITATED SLOPES WILL BE CONSTRUCTED AS SHOWN ON THE CROSS SECTIONS. REHABILITATION SHALL BE BY BACKFILLING (MINIMUM 3:1) AND/OR CUT AND FILL METHOD USING AVAILABLE ON-SITE OVERBURDEN AND TOPSOIL FROM WITHIN THE SITE AND/OR CLEAN INERT IMPORTED FILL THAT MEETS MECP'S CURRENT STANDARDS.

AVAILABLE OVERBURDEN REPLACED WILL BE APPROXIMATELY 200mm THICK.

REFER TO DRAWING 2 OF 2, SECTIONS, FOR MORE INFORMATION ON BACKFILLING AND CREATION OF REHABILITATED SIDESLOPES.

TOPSOILING INFORMATION

6. ALL AVAILABLE TOPSOIL ON THE SITE WILL REMAIN TO BE USED FOR REHABILITATION OF THIS SITE. AVAILABLE TOPSOIL REPLACED WILL BE APPROXIMATELY 200-300mm THICK.

VEGETATION STABILIZATION INFORMATION

7. TOPSOIL SHALL BE SEEDED WITH A MIXTURE OF GRASSES AND LEGUMES THAT MAY INCLUDE THE

FOLLOWING AT A RATE OF APPROXIMATELY 125KG/HA: RED CLOVER BUCKWHEAT TALL FESCUE COMMON MILKWEED ANNUAL RYE

REHABILITATION TO GRASSLANDS/PASTURE INFORMATION

8. DEEP RIPPING OF FIELDS SHALL BE PERFORMED TO ELIMINATE COMPACTION (WHERE REQUIRED). SPREADING OF AVAILABLE SUBSOIL/ OVERBURDEN AND ROUGH GRADING.

10. SPREADING OF AVAILABLE TOPSOIL AND FINE GRADING.

IN A HEALTHY, VIGOROUS GROWING CONDITION.

11. REMOVAL OF STONES LARGER THAN 100mm. 12. SEED AREAS WITH SEED MIXTURE NOTED ABOVE. ALL VEGETATION PLANTED SHALL BE MAINTAINED

13. MATERIAL FROM OTHER PROPERTIES (EG. MANURE AND/ OR TOPSOIL) MAY BE IMPORTED INTO THE SITE FOR SOIL ENHANCEMENT USING STANDARD AGRICULTURAL PRACTICES.

SETBACK REHABILITATION INFORMATION

14. AFTER SIDESLOPES ARE CREATED AND REQUIRED BERMS ARE REMOVED FROM SETBACKS, THESE AREAS WILL BE IMMEDIATELY STABILIZED WITH A SUITABLE GROUNDCOVER AND THEN CULTIVATED THE FOLLOWING SPRING.

TECHNICAL RECOMMENDATIONS CONTINUED

NATURAL ENVIRONMENT ASSESSMENT LEVEL 1 & 2 - STANTEC, FEBRUARY 2020

• MITIGATION MEASURES TO PROTECT NATURAL HERITAGE FEATURES FROM DIRECT AND INDIRECT IMPACTS (DESCRIBED IN SECTION 7.0 OF THE REPORT), WILL BE IMPLEMENTED BY THE

 A MINIMUM 30m SETBACK SHALL BE ESTABLISHED BETWEEN THE EXTRACTION FOOTPRINT AND THE SIGNIFICANT WOODLAND TO MINIMIZE IMPACTS TO WILDLIFE AND THE FORESTED WETLAND.

. PRIOR TO STRIPPING AND OPERATIONS IN ANY AREA, THE LIMITS OF THE WOODLAND BUFFER SHALL BE STAKED OR OTHERWISE CLEARLY MARKED BY A QUALIFIED PERSON. THE CITY OF

 SILT FENCING FOR INTERNAL SEDIMENT AND EROSION CONTROL DURING STRIPPING OPERATIONS AS ILLUSTRATED ON THE SITE PLAN SHOULD BE INSTALLED AND MAINTAINED.

OTTAWA WILL BE NOTIFIED, SHOULD CITY STAFF WISH TO CONFIRM THE BOUNDARIES.

MAINTAINED DURING ACTIVE OPERATIONS.

SILT BARRIERS AND EROSION CONTROL MEASURES WILL BE MONITORED AND REGULARLY

. TOPSOIL AND OVERBURDEN SHOULD BE STRIPPED AND STORED SEPARATELY IN BERMED STOCKPILES, BERMS AND STOCKPILES OF TOPSOIL SHOULD BE GRADED TO STABLE SLOPES AND SEEDED TO PREVENT EROSION AND MINIMIZE DUST, STOCKPILES SHALL BE MAINTAINED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR THE PROTECTION, CREATION AND MAINTENANCE OF BANK SWALLOW HABITAT IN ONTARIO (MNRF 2017).

 CONSTRUCTION ACTIVITIES WITH THE POTENTIAL TO HARM MONARCH EGGS, CATERPILLAR OR PUPAE (E.G., VEGETATION CLEARING) SHALL NOT BE UNDERTAKEN DURING THE LARVAL PERIOD WHICH IS APPROXIMATELY MAY 1 TO SEPTEMBER 30 (MISSION-MONARCH 2020),

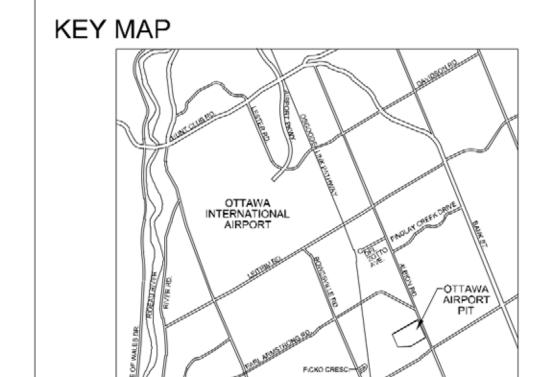
 DURING OPERATION, COMMON MILKWEED (ASCLEPIAS SYRIACA) AND NECTAR PRODUCING PLANTS SHALL BE PLANTED WITHIN THE LICENCE BOUNDARY BUT OUTSIDE THE EXTRACTION AREA AND WHERE HABITAT DISTURBANCE CAN BE AVOIDED, TO PROVIDE HABITAT FOR

 CONSTRUCTION ACTIVITIES WITH THE POTENTIAL TO REMOVE RESIDENCES OF BOBOLINK OR EASTERN MEADOWLARK (E.G., VEGETATION CLEARING) SHALL NOT BE UNDERTAKEN DURING THE BREEDING SEASON WHICH IS APRIL 8 TO AUGUST 28 IN THIS REGION (ENVIRONMENT CANADA

2:1 (AT LEAST) SIDE SLOPE— SEEDED TO PREVENT EROSION MINIMUM 3m

TYPICAL BERM SECTION

___ 1.2m HIGH POST AND WIRE FENCE



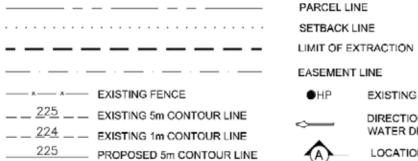


______ PROPOSED 1m CONTOUR LINE

GROUND WATER TABLE

EXISTING SPOT ELEVATION

EXISTING VEGETATION



EXISTING HYDRO POLE DIRECTION OF SURFACE WATER DRAINAGE LOCATION OF CROSS SECTION

BOUNDARY OF PIT

EXISTING WETLAND

─ ─ ~ ~ EXISTING GRADE EXISTING VEGETATION PROPOSED GRADE

NO. DATE REVISIONS OWNER HM

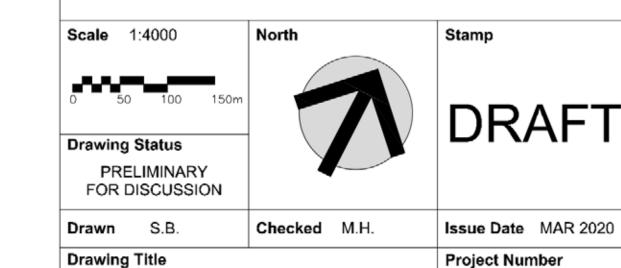
Pre Approval Review Site Plan Amendments



Project Name

CAVANAGH **OTTAWA AIRPORT**

PART OF LOTS 23 AND 24, CONCESSION 3 FROM RIDEAU RIVER GEOGRAPHIC TOWNSHIP OF GLOUCESTER CITY OF OTTAWA



SECTIONS, DETAILS AND REHABILITATION PLAN

19-27 Drawing Number