

Existing Features

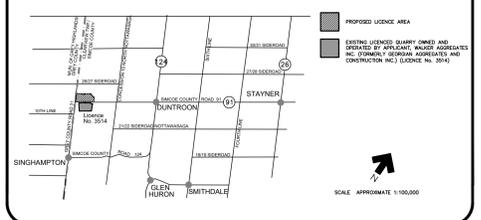
Legend

- | | | | |
|--|----------------------------------|--|---|
| | Expansion Licence Boundary | | South Quarry Licence Boundary |
| | Limit of Extraction | | Walker Aggregates Inc. Lands |
| | Lots and Concessions | | Hydro Pole Line |
| | Building/Structure | | Niagara Escarpment Designation Boundary |
| | Existing Driveway | | Existing Stream |
| | Field/Service Entrance | | Entrance to Phase 1 |
| | Entrance/Exit | | Existing Vegetation |
| | Direction of Surface Drainage | | Wetland Boundary (Surveyed & Estimated) |
| | Existing Fence | | Pond |
| | Existing Spot Elevation | | Elevation, Contour |
| | Niagara Escarpment Plan Boundary | | Parcel Fabric |
| | Cross Sections | | Existing Ditch |

NOTES:

- TOPOGRAPHIC INFORMATION PREPARED BY NORTHWAY-PHOTOMAP INC. AND GENERATED FROM AERIAL PHOTOGRAPHY FROM IN SPRING OF 2002. CONTOUR INTERVAL IS 2.0m. WITH FILL, LOW INTERPOLATED CONTOURS. ALL ELEVATIONS ARE INDICATED IN METRES ABOVE SEA LEVEL (MASL). SPOT ELEVATIONS IN ROB ROY UNIT 2 WETLAND BASED ON SURVEY BY ZUBEK, EMO, PATTEN & THOMSON, SEPTEMBER 2007.
- LICENCE BOUNDARY COMPRISED FROM EXISTING AREA SITE PLANS ORIGINALLY PREPARED BY ZUBEK, EMO AND PATTEN LTD.; DAVE T. HULME ENTERPRISES INC. BOUNDARY OF AREA TO BE LICENCED TAKEN FROM PRELIMINARY PLAN OF SURVEY PREPARED BY ZUBEK, EMO, PATTEN AND THOMSON LTD., JANUARY 2003, AND PLAN 518-4729 PREPARED BY ZUBEK AND EMO, JUNE 13, 1975.
- ZONING INFORMATION OBTAINED FROM MUNICIPALITY OF GREY HIGHLANDS ZONING BY-LAW 10-1978. NIAGARA ESCARPMENT PLAN DESIGNATIONS TAKEN FROM MAP 5 NIAGARA ESCARPMENT PLAN, MINISTRY OF NATURAL RESOURCES, JUNE 1, 2005.
- ALL MEASUREMENTS SHOWN ON THIS PLAN ARE IN METRES.
- BOUNDARY OF AREA TO BE LICENCED 65.93 ha, 162.93 (ac.) AREA TO BE EXTRACTED 58.49 ha, 144.52 (ac.)
- HYDROGEOLOGICAL INFORMATION OBTAINED FROM "GEOLOGICAL REPORT AND LEVEL 2 HYDROGEOLOGICAL ASSESSMENT DATED SEPTEMBER 2005, AND "LEVEL 2 HYDROGEOLOGICAL ASSESSMENT ADDENDUM" DATED OCTOBER 2007, PREPARED BY JAGGER HINE LIMITED.
- THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE, CATEGORY 2.
- HIGH MEASURED GROUNDWATER LEVELS VARY FROM 509 MASL TO 526 MASL ACROSS THE SITE.

Key Map



**PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE**

113 COLLIER STREET, BARRETT, ON L4N 1G1 | P: 705.720.0041 | WWW.MHBCAN.COM

MHBC Stamp

Christopher
is authorized by
Natural Resources
Subdivision of Ontario
Regulatory Services
to prepare
site plans.

Draft

Scale 1:3,000

DRAFT REVISIONS

NO.	DATE	DESCRIPTION

I ACKNOWLEDGE AND SHALL CARRY ON MY OPERATION IN ACCORDANCE WITH THIS SITE PLAN UPON WHICH MY LICENCE IS BASED. LICENCEE / SIGNATURE: _____ DATE: _____

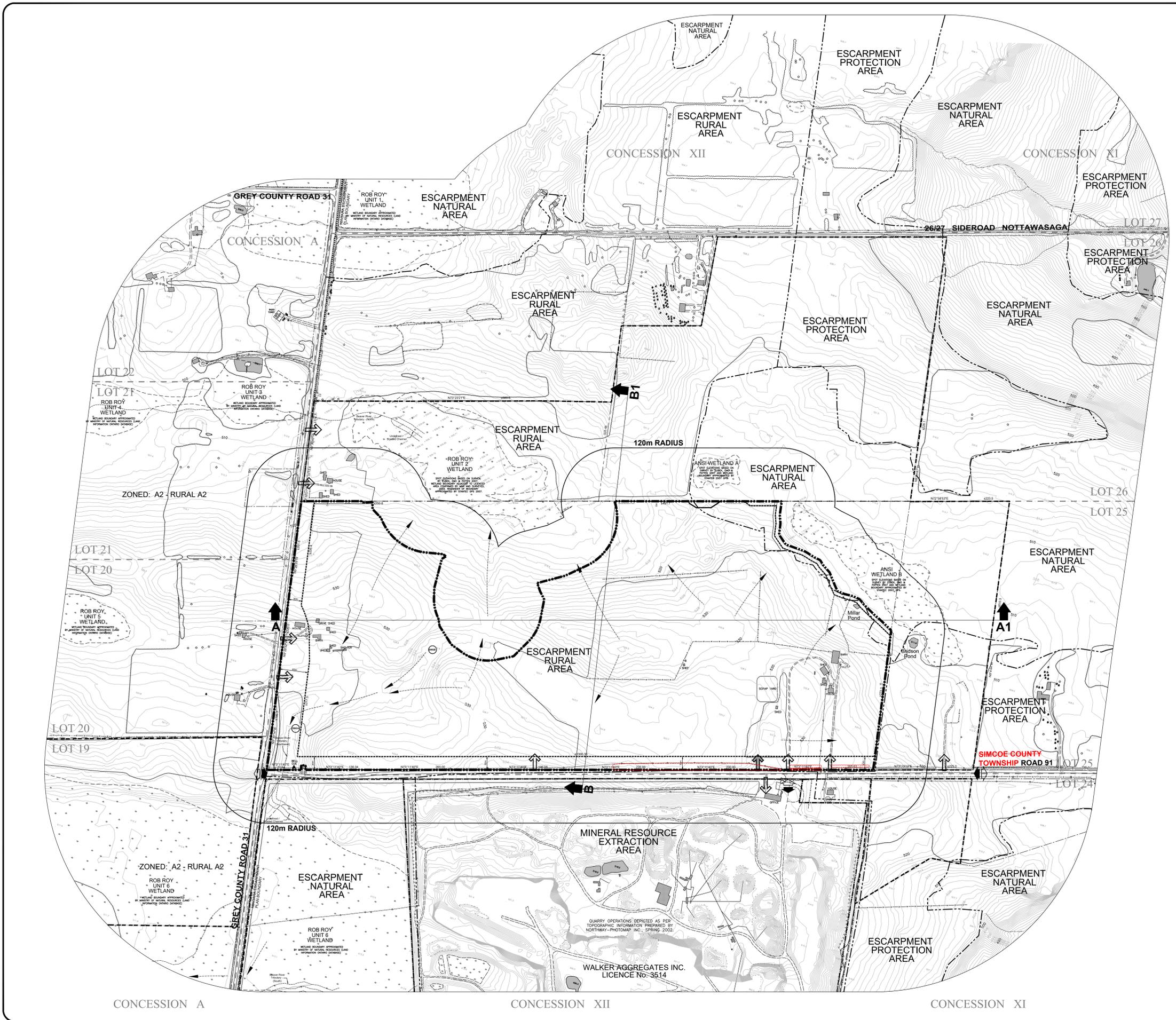
PROJECT NAME:
Duntroon Quarry Expansion

Lot 25 and Part Lot 26,
Concession XII and
Part Lot 25, Concession XI
Clearview Township
Simcoe County

Job No. 18110N
Des. By: A.W.D.S., D.C.P. / Chk. By: C.P.

Walker Industries Inc.

**Walker Industries Holdings Limited
Aggregates and Construction Group**
P.O. Box 100 Thorold Ontario
L2V 3Y9



CONCESSION A

CONCESSION XII

CONCESSION XI

Operational 2A of 4 Plan

Legend

	Expansion Licence Boundary		South Quarry Licence Boundary
	Limit of Extraction		Walker Aggregates Inc. Lands
	Lots and Concessions		Existing Spot Elevation
	Field/Service Entrance		Wetland Boundary (Surveyed & Estimated)
	Entrance/Exit (Operational)		Existing Stream
	Entrance to Phase 1		Pond
	Direction of Excavation		Plant Site
	Excavation Face		Building/Structure
	Existing Well Monitor Location		Existing Vegetation
	Quarry Dewatering Discharge Locations		Existing Fence
	Proposed Additional Well Monitor Locations		Proposed Berms
	Dual Purpose Monitor/Recharge Injection Well Location		Proposed Elevations
	Existing Driveway		Niagara Escarpment Plan Boundary
	Cross Sections		Phase 4

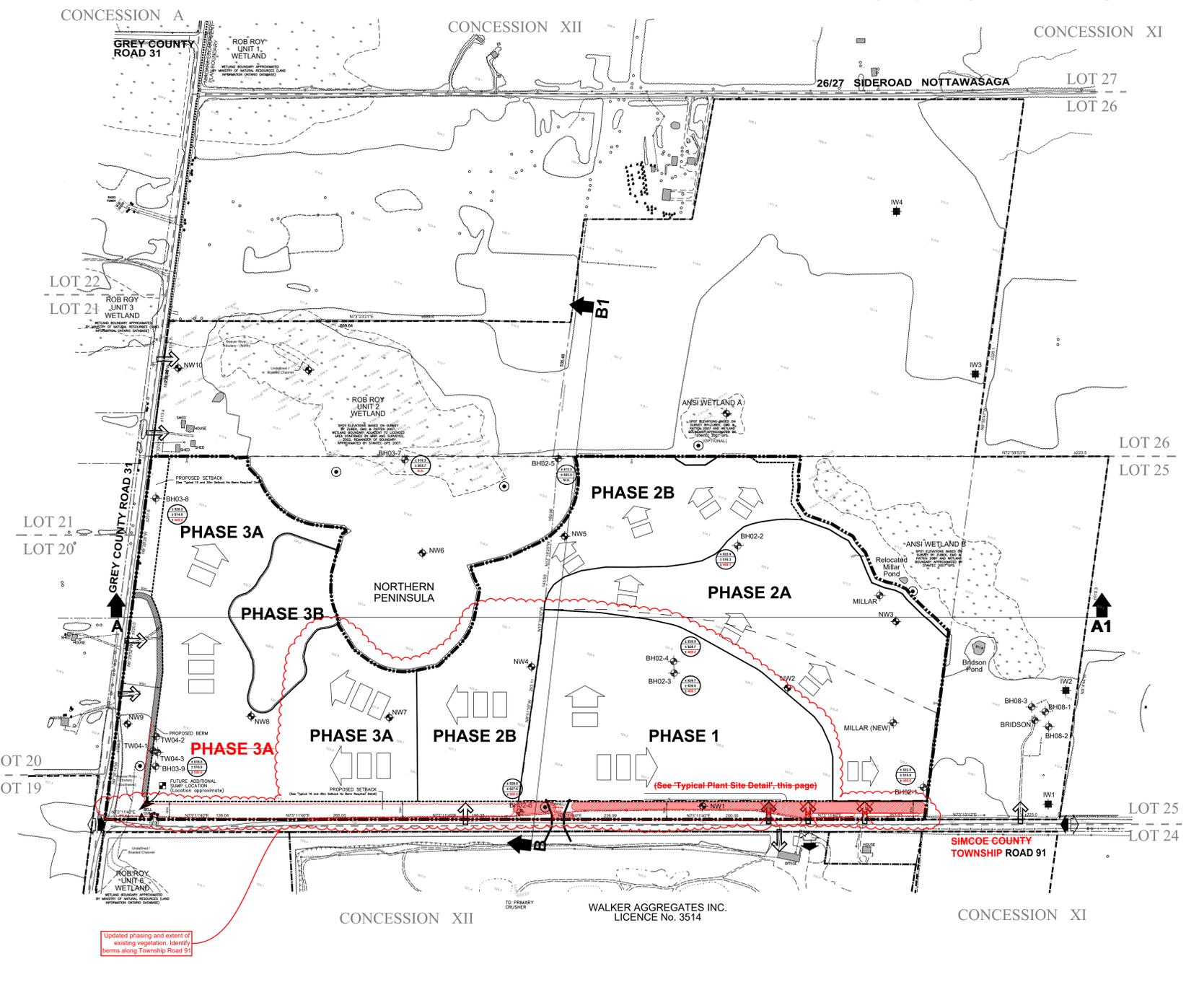
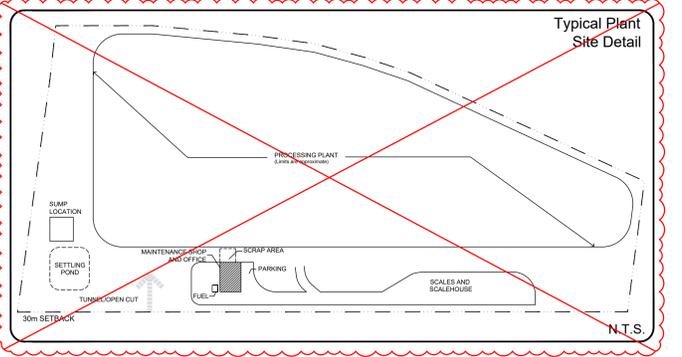
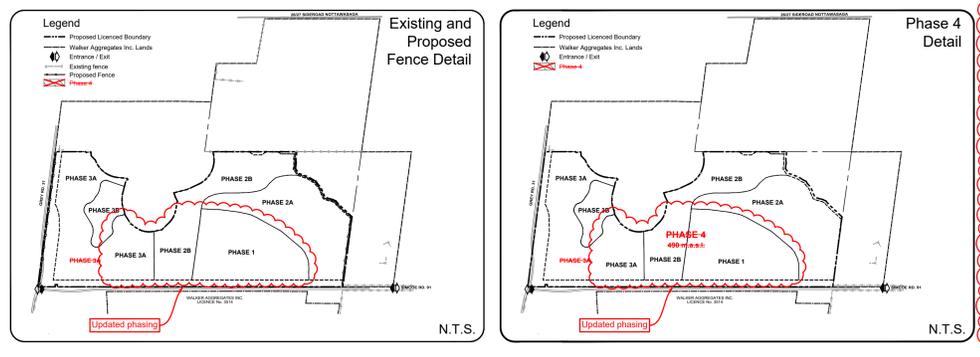
- DURING THE INITIAL STAGE OF DEVELOPING PHASE 1, A TUNNEL OR OPEN-CUT FOR TRUCKS AND/OR CONVEYORS WILL BE CREATED UNDERNEATH OR THROUGH THE PORTION OF CONCESSION ROAD 91 WHICH IS SHOWN. THIS PHASE WILL PERMIT TRANSPORT OF EXTRACTED MATERIAL FROM THE PHASE 1 AREA TO THE EXISTING PROCESSING PLANT WITH LICENCE NO. 3514, AND WILL BE THE TRANSPORT OF EXTRACTED MATERIAL FROM THE PHASE 1 AREA TO THE EXISTING PROCESSING PLANT. SEE PLANT-SITE AND TYPICAL-PLANT-SITE-DETAIL THIS PAGE.
- A PROCESSING PLANT PROCESSING MATERIAL FROM THIS SITE (LOT 25, CONCESSION 12, TOWNSHIP OF CLEARVIEW) IS PERMITTED ON LANDS TO THE SOUTH (LOT 24, CONCESSION 12, TOWNSHIP OF CLEARVIEW, AREA LICENCE NO. 3514) BUT ONLY FOR SUCH PURPOSES AS ARE NECESSARY TO OPERATE SUCH PLANT. THIS SITE IS TO ACCOMMODATE THIS PLANT AND THE OPERATIONS OF SUCH PLANT. THE OPERATIONS OF SUCH PLANT SHALL BE LIMITED TO THE PROCESSING OF MATERIAL FROM THIS SITE AND THE QUARRY UNDER LICENCE NO. 3514 SHALL BE REHABILITATED IN ACCORDANCE WITH THE APPROVED REHABILITATION PLAN. THIS PERMIT INCLUDES ALL RELATED PRODUCTION FACILITIES. SEE TYPICAL-PLANT-SITE-DETAIL THIS PAGE.
- UPON RELOCATION OF THE PROCESSING PLANT AND SCALES/SCALE-HOUSE FROM LOT 24 TO THE PLANT-SITE SHOWN ON THE REHABILITATION PLAN, THE EXISTING FACILITIES SHALL BE REHABILITATED.
- IN ADDITION, A PORTABLE CRUSHING SCREEN PLANT MAY BE LOCATED ADJACENT TO THE ACTIVE FACE WITHIN PHASES 1, 2A, 2B, 3A, AND 3B INCLUSIVE (SUBJECT TO GENERAL NOTES 24, 25 AND 26.2) AND AN IMPROVE PLANT SHALL BE LOCATED ON SITE. THE MAXIMUM HEIGHT OF STOCKPILES AND ALL PROCESSING EQUIPMENT IS 20 METRES FROM THE QUARRY FLOOR.
- ONCE THE OVERBURNED IS STRIPPED AND STORED IN THE BERMS SHOWN, OR STOCKPILED FOR FUTURE USE, EXTRACTION WILL TAKE PLACE IN PHASE 1, IN A NORTHERLY, EASTERLY AND WESTERLY DIRECTION. DRAINAGE WILL TAKE PLACE TO CREATE A DRY WORKING FLOOR. WATER WILL BE PUMPED FROM THE QUARRY FLOOR AND DISCHARGED IN ACCORDANCE WITH THE PERMIT TO TAKE WATER AND THE ENVIRONMENTAL COMPLIANCE APPROVAL. NO LATER THAN THREE YEARS FROM COMMENCEMENT OF EXTRACTION, THE RELOCATED MILLAR POND SHALL BE CONSTRUCTED AS SHOWN ON THIS PAGE AS FURTHER DESCRIBED IN THE MILLAR POND RELOCATION DESIGN CONCEPTS (CONSOLIDATED REPORT, STANTEC 2010, APPENDIX 15). THERE SHALL BE NO STRIPPING OF TOPSOIL OR OVERBURNED, AND NO EXTRACTION WITHIN 30 METRES OF THE EXISTING MILLAR POND UNTIL SUCH TIME AS SELF-SUSTAINING VEGETATION AND ACTIVE FROG BREEDING HAVE BEEN ESTABLISHED AT THE RELOCATED MILLAR POND AS DETERMINED THROUGH THE ADAPTIVE MANAGEMENT PLAN.
- PRIOR TO EXTRACTION WITHIN PHASE 2A, THE BOUNDARY OF THE WETLANDS TO THE NORTH AND NORTH EAST (ROB ROY UNIT 2 WETLAND AND ANS WETLAND A AND ANS WETLAND B) SHALL BE SURVEYED AND STAKED TO THE SATISFACTION OF MNR. NO EXTRACTION SHALL TAKE PLACE WITHIN 120 METRES OF THE STAKED BOUNDARY OF ROB ROY UNIT 2 WETLAND OR WITHIN 30 METRES OF THE STAKED BOUNDARY OF ANS WETLAND A AND ANS WETLAND B.
- AS EXTRACTION WITHIN PHASE 1 APPROACHES A DEPTH OF 500 MASL, STRIPPING OF PHASE 1A MAY COMMENCE. EXTRACTION WITHIN PHASE 2A SHALL EXTEND EASTERLY AND NORTHERLY FROM THE QUARRY FACE IN PHASE 1, PRIOR TO STRIPPING OF LANDS WITHIN PHASE 1B. THE NORTHERLY DIRECTION SHALL BE LIMITED TO THE BOUNDARY OF WETLAND A AND WETLAND B. THE WESTERLY DIRECTION SHALL BE LIMITED TO THE BOUNDARY OF WETLAND A AND WETLAND B. IN THE EVENT PHASE 2B IS STRIPPED, THE PORTION OF PHASE 2B CAN ONLY PROCEED IN THE EVENT THE REFORESTATION IS ECOLOGICALLY SUCCESSFUL. EXTRACTION WITHIN PHASE 2B WILL NOT TAKE PLACE UNTIL THE REFORESTATION ASSESSMENT DEMONSTRATES THAT THE PLANTED WETLAND IS ECOLOGICALLY SUCCESSFUL.
- EXTRACTION IN PHASE 2B WILL BE UNDERTAKEN FROM EAST TO WEST AND SOUTH TO NORTH FROM PHASES 1 AND 2A RESPECTIVELY.
- PHASES 3A AND 3B WILL PROGRESS SIMULTANEOUSLY OR MERGE AS ONE PHASE IN A WESTERLY AND NORTHERLY DIRECTION. PHASE 3A PROGRESS INDEPENDENT OF PHASE 3B. PHASE 3B WILL PROGRESS IN A NORTHERLY DIRECTION ONCE GENERAL NOTE 22 IS IN EFFECT. PHASE 3B WILL PROGRESS IN A WESTERLY DIRECTION ONCE GENERAL NOTE 22 IS IN EFFECT. THE WESTERLY DIRECTION SHALL BE LIMITED TO THE BOUNDARY OF WETLAND A AND WETLAND B. THE NORTHERLY DIRECTION SHALL BE LIMITED TO THE BOUNDARY OF WETLAND A AND WETLAND B.
- NOTWITHSTANDING THAT PHASE 3B IS LOCATED WITHIN THE EXTRACTION AREA, QUARRY RELATED ACTIVITIES, INCLUDING SITE ALTERATION AND/OR EXTRACTION, ARE ONLY PERMITTED WITHIN PHASE 3B AT SUCH TIME AS:
 - A PERMIT UNDER SECTION 17(2) C OF THE ENDANGERED SPECIES ACT, 2007 FOR THE REMOVAL OF THE RETAINABLE BUTTERNUT TREES WITHIN PHASE 3B HAS BEEN GRANTED BY THE MINISTRY OF NATURAL RESOURCES, OR
 - THE RETAINABLE BUTTERNUT TREES DOCUMENTED ON SITE IN JUNE 2009 DECLINE AS A RESULT OF BUTTERNUT CANKER TO DECIDE WHETHER THEY ARE NO LONGER CONSIDERED RETAINABLE, AND NO OTHER RETAINABLE BUTTERNUT TREES ARE FOUND ON SITE; OR
 - THE STATUS OF BUTTERNUT (AS LISTED ON THE SPECIES AT RISK IN ONTARIO LIST) IS CHANGED AND THE RESULT IS SUCH THAT BUTTERNUT IS NO LONGER SUBJECT TO SECTION 9 OR 10 OF THE ENDANGERED SPECIES ACT, 2007, AND EXTRACTION IN PHASE 3B IS IN KEEPING WITH OTHER RELEVANT PROCESSES AND LEGISLATION APPLICABLE TO BUTTERNUT AT THAT TIME, FOR GREATER CLARITY REGARDING SCENARIO (I) ABOVE, IN THE EVENT THAT ONLY A PORTION OF PHASE 3B NO LONGER HAS RETAINABLE BUTTERNUT TREES, EXTRACTION IS ONLY PERMITTED PROVIDED THAT PORTION OF PHASE 3B WHICH CONTINUES TO HAVE RETAINABLE BUTTERNUT TREES, INCLUDING THE 25 METRE SETBACK, IS CLEARLY DEMARCATED AND FENCED AND IS NOT SUBJECT TO EXTRACTION.
- PRIOR TO COMPLETION OF PHASE 2B, STRIPPING OF TOPSOIL AND OVERBURNED WITHIN PHASE 3A WILL COMMENCE. THESE MATERIALS SHALL BE STOCKPILED FOR PROGRESSIVE REHABILITATION.
- WHEN THE QUARRY FLOOR REACHES THE WESTERLY LIMIT OF PHASE 3A, A SUNP WILL BE CREATED IN THE AREA SHOWN ON THE PLAN. WATER WILL BE DISCHARGED AT THE LOCATIONS IDENTIFIED AS QUARRY DRAINAGE DISCHARGE LOCATIONS AS IDENTIFIED ON THE PLAN, OR AT OTHER LOCATIONS IDENTIFIED THROUGH AN ADAPTIVE MANAGEMENT PLAN (AMP) APPROVED BY THE MINISTRY OF NATURAL RESOURCES (MNR).
- PHASE 4 AS PHASE 3A IS NEARING COMPLETION, A FURTHER LIFT WILL BE INITIATED TO AN ELEVATION OF 400 MASL. PHASE 4 IS A FINAL LIFT. NEW NEGOTIATED PERMANENT PLANTING IS DISCONTINUED AND MONITORING OF SITE PROGRESS WILL CONTINUE WITH USE OF A PORTABLE PROCESSING PLANT. PROGRESSIVE REHABILITATION OF PHASE 3A (OR COMBINED PHASES 3A AND 3B) SHALL COMMENCE. REHABILITATION OF THE SITE IS 100% COMPLETED, AND WATERING WILL CEASE. FLOW DRAINS AND CHANNELS AND, IF NECESSARY, FURTHER MONITORING OF PHASE 3A (OR COMBINED PHASES 3A AND 3B) SHALL BE UNDERTAKEN TO CONTINUE TO MONITOR WATERSHED WATERSHED TOWARDS THE WESTERLY DIRECTION. SUCH TIME AS IT HAS BEEN DEMONSTRATED TO THE SATISFACTION OF THE MINISTRY OF NATURAL RESOURCES THAT THE WETLANDS ARE SELF-SUSTAINING AS DEMONSTRATED THROUGH MONITORING IN THE AMP.
- ON SITE MOBILE EQUIPMENT TO BE USED WITHIN THE LICENCE AREA WILL INCLUDE, BUT IS NOT LIMITED TO, LOADERS, HAUL TRUCKS, SCRAPERS, BALDOZERS, BACKHOES, DRILLS, AND A PORTABLE AND PERMANENT PROCESSING PLANT.
- THE HOURS OF OPERATION ARE:

Activity	Monday to Friday	Saturday
Stripping	7:00 am to 5:00 pm	8:00 am to 5:00 pm
Quarrying	7:00 am to 5:00 pm	8:00 am to 5:00 pm
Operations (including processing)	8:00 am to midnight	7:00 am to 5:00 pm
Stripping	8:00 am to 5:00 pm	None
Environment	24 hours a day	24 hours a day

 NOTE: SUNDAYS CLOSED EXCEPT FOR MAINTENANCE. OUTSIDE THESE HOURS, ANY ACTIVITY CAN ONLY TAKE PLACE ON AN EMERGENCY BASIS AS DETERMINED BY THE MINISTRY OF TRANSPORTATION, THE COUNTY OF SIMCOE, THE TOWNSHIP OF CLEARVIEW, OR OTHER PUBLIC ROAD AUTHORITY.
- NO OPERATIONS MAY OCCUR ON STATUTORY HOLIDAYS AS DEFINED IN ACCORDANCE WITH THE EMPLOYMENT STANDARDS ACT EXCEPT THAT CANADA DAY CAN BE TAKEN AS AN ALTERNATE DAY. MAINTENANCE MAY OCCUR ON HOLIDAYS.
- BLASTING SHOULD OCCUR DAILY IN ACCORDANCE WITH PROVINCIAL STANDARDS.
- THE MAXIMUM TONNAGE TO BE REMOVED ANNUALLY FROM THIS SITE IS 2.5 MILLION TONNES, IN COMBINATION WITH LICENCE NO. 3514.
- REHABILITATION WILL BE PROGRESSIVE DURING QUARRY OPERATIONS AS SUFFICIENT AREAS BECOME AVAILABLE. OVERBURNED FROM PHASES 1 WILL BE USED FOR THE CONSTRUCTION OF THE BERM AT THE WEST SIDE OF PHASE 3A. PHASE 4 SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SETBACK DETAIL - PHASE 2 - BERM REQUIRED" DETAIL ON PAGE 28 OF 4.
- THE BERMS ALONG TOWNSHIP ROAD 91 (AS SHOWN) SHALL BE CONSTRUCTED TO AN ELEVATION BETWEEN 532 AND 536 MASL IN ORDER TO REACH THREE METRES FROM THE CENTRAL DIVISION OF THE BERM. SHALL BE 3.1 METRE WIDE AT THE TOP AND ONE METRE WIDE AT THE BOTTOM. THE TOP OF THE BERMS SHALL REMAIN 1.0 METRES FROM THE LIMITS OF EXTRACTED MATERIAL. THE WEDGELIKE WATERSHED SHALL BE LOCATED WITHIN THREE METRES OF THE LICENCE BOUNDARY. THE "SETBACK DETAIL - PHASE 2 - BERM REQUIRED" DETAIL ON PAGE 28 OF 4 DOES NOT APPLY TO THE BERMS ALONG TOWNSHIP ROAD 91 AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS NOTE.
- OFF-SITE AGGREGATE MATERIAL REQUIRED FOR IMPROVED PAVEMENTS MAY BE IMPORTED AND STOCKPILED IN THE PERMANENT PROCESSING PLANT AREA. STOCKPILES OF IMPORTED MATERIAL WILL NOT EXCEED 20 METRES. AN IMPROVED FLOOR DRAINAGE WILL BE REHABILITATED AND STOCKPILES OF IMPORTED MATERIAL WILL NOT EXCEED 20 METRES. ENVIRONMENTAL MANUAL - INERT FILL ACCEPTANCE PROCEDURE.
- FOR DETAILS ON PROGRESSIVE AND FINAL REHABILITATION REFER TO PART 3 OF 4 ENTITLED "REHABILITATION PLAN".

- ### GENERAL NOTES:
- EXTRACTION WITHIN LOT 25, CON. 12 WILL COMMENCE PRIOR TO COMPLETION OF QUARRYING AND FINAL REHABILITATION WITHIN EXISTING QUARRY IN LOT 24, CON. 12 (LICENCE NO. 3514). OPERATIONS WILL PROCEED SIMULTANEOUSLY IN BOTH THE EXISTING AND NEW AREAS.
 - THE LICENCE AREA IS 65.93 HA AND THE EXTRACTION AREA IS 58.49 HA. THE LICENCE BOUNDARY AND THE EXTRACTION LIMIT AROUND THE NORTHERN PENINSULA IS A SETBACK A COMBINATION OF 120 METRES FROM THE ROB ROY UNIT 2 WETLAND AS SURVEYED AND CONTROLLED BY MNR IN 2002, TOGETHER WITH 100 METRES FROM LOT 21 OF THE AMERICAN HART'S TONGUE FERN AS MAPPED BY STANTEC IN FIGURE NO. 10 DATED REVISED JULY 16, 2009 (MNR LETTER TO REC JULY 17, 2009 [EX. 37, VOLUME 13, PAGE 863]).
 - THE SITE PLANS DEPICT A SCHEMATIC SEQUENCE FOR DEVELOPMENT OF THE SITE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION. EXTRACTION ELEVATIONS AND APPROXIMATE LIMITED VARIATIONS DURING OPERATIONS AND REHABILITATION OF THE SITE WILL BE PERMITTED IN ORDER TO ADJUST TO ANY VARIATIONS IN RESOURCES AND MARKET CONDITIONS OR HYDROLOGICAL CONDITIONS. ANY MAJOR VARIATION OR DEVIATION FROM THE SITE PLANS WILL ONLY BE PERMITTED BY AMENDMENT.
 - SETBACK LIMIT FROM ALL MUNICIPAL ROAD ALLOWANCES IS A MINIMUM OF 30 METRES. AREAS AROUND SETBACKS WILL BE BACKFILLED WITH OVERBURNED OR STOCKPILED NO STEEPER THAN 2:1. EXCEPT FOR AREAS OF EXPOSED VERTICAL FACES AS SHOWN ON PAGE 3 OF 4, SLOPES WILL BE KEPT AS SHOWN AS POSSIBLE AFTER FINAL GRADING TO CONTROL WIND BLOWN DUST AND EROSION.
 - NO ROADS SHALL BE CONSTRUCTED WITHIN THE SETBACK AREAS EXCEPT AS A FARM ACCESS AND/OR A TEMPORARY ACCESS FOR STRIPPING OF EXTRACTION AREAS, REHABILITATION OR BERMING PURPOSES. A MAJOR GRADED LANEWAY WILL ALSO BE PERMITTED IN THE SETBACK AREA IMMEDIATELY NEXT TO THE NORTH AND NORTHEAST EXTRACTION LIMIT TO ACCESS MITIGATION AND MONITORING STATIONS.
 - TOPSOIL, SUBSOIL AND OVERBURNED AND AGGREGATE STOCKPILES SHALL BE LOCATED WITHIN THE EXTRACTION AREA AND NOT WITHIN 30 METRES OF THE LICENCE BOUNDARY. THE HEIGHT OF STOCKPILES SHALL NOT EXCEED 20 METRES IN HEIGHT FROM THE QUARRY FLOOR.
 - TOPSOIL, SUBSOIL AND OVERBURNED WILL BE STRIPPED, STORED AND REPLACED SEPARATELY WHEREVER THERE ARE DISTINGUISHABLE LAYERS AND SUFFICIENT THICKNESS TO ALLOW HANDLING IN THIS MANNER. IF REQUIRED, TOPSOIL, SUBSOIL AND OVERBURNED MAY BE TRANSPORTED TO THE LICENCE NO. 3514 AND USED IMMEDIATELY FOR REHABILITATION. EXCESS TOPSOIL AND OVERBURNED ARE TO BE RETAINED AND STABILIZED FOR FUTURE REHABILITATION.
 - QUARRYING OF THE AMBELL FORMATION WILL BE UNDERTAKEN IN UP TO THREE FOUR LIFTS TO A MAXIMUM DEPTH OF 29.42 METRES.
 - REMOVING WILL BE COMPLETED PRIOR TO ANY DISTURBANCE ASSOCIATED WITH THE SITE PREPARATION, FENCING WILL BE COMPLETED IN ACCORDANCE WITH THE EXISTING AND PROPOSED FENCE DETAIL AS SHOWN ON THIS PAGE. EXISTING RESIDENCES AND BUILDINGS WILL BE DEMOLISHED PRIOR TO EXTRACTION WITHIN THE PHASE WHERE THEY ARE LOCATED.
 - NO LATER THAN THREE YEARS AFTER THIS LICENCE IS ISSUED, TREE PLANTING AND TRANSPLANTING WILL BE UNDERTAKEN FOR PURPOSES OF: (1) REFORESTATION AS SHOWN ON THE PLANNING LOCATION DETAIL (PAGE 28 OF 4) THE TYPICAL PLANTING BLOCK DETAIL (PAGE 3 OF 4) AND FIGURE 2.0 ALTERNATE BLOCK REFORESTATION, OF CHAIN SURVEY VERTICAL CONTROL, OCTOBER 2007, STANTEC CONSULTING LIMITED; (2) VISUAL MITIGATION AS SHOWN ON THE PLANNING LOCATION DETAIL (PAGE 28 OF 4); (3) VISUAL MITIGATION PLANTING QUARTY EXPANSION (CONSOLIDATED REPORT, STANTEC 2010, APPENDIX 17); AND (4) VISUAL MITIGATION PLANTING QUARTY EXPANSION (CONSOLIDATED REPORT, STANTEC 2010, APPENDIX 17). ALL PLANTING SHALL BE KEPT HEALTHY AND DEAD MATERIAL SHALL BE REPLACED.
 - ALL SCRAP AND USED MACHINERY GENERATED THROUGH THE OPERATIONS WITHIN THIS LICENCE WILL BE STORED IN THE PROCESSING AREA AS SHOWN. A MINIMUM OF 30M FROM THE BOUNDARY OF THE SITE AND WILL BE DISPOSED OF ON AN ONGOING BASIS. TIMBERS AND STUMPS REMOVED DURING SITE PREPARATION WILL BE SALVAGED AS SAW LOGS/POSTS AND/OR FUEL WOOD, MULCHED FOR ON SITE USE IN REHABILITATION OR RETAINED FOR USE IN REHABILITATION MARKET STRUCTURES WHERE POSSIBLE.
 - AS SOON AS IS PRACTICAL FOLLOWING BERM CONSTRUCTION, BERMS WILL BE SEEDED WITH APPROPRIATE GRASS/LEGUME MIXTURE TO FORM BLOWN DUST AND EROSION FROM OCCURRING.
 - PRIOR TO THE COMMENCEMENT OF SHIPPING OF QUARRY PRODUCT FROM LOT 25, CONCESSION XI, THE IMPROVEMENTS TO TOWNSHIP ROAD 91 AND SIDEROAD 26/27, AS COMPLETED BY THE ROAD SETTLEMENT AGREEMENTS, BETWEEN THE TOWNSHIP OF CLEARVIEW AND THE COUNTY OF SIMCOE, SHALL BE UNDERTAKEN BY THE SHIPPERS.
 - PRIOR TO COMMENCEMENT OF EXTRACTION, THE OPERATOR SHALL SUBMIT DETAILS OF THE PROPOSED METHODS OF CONVEYING WATER FROM THE PROPOSED QUARRY LAKE TO ROB ROY 2 AND ANS WETLAND AND ANS WETLAND TO WETLAND TO THE SMP AND MAKE IN CONSULTATION WITH THE GREY SABLE CONSERVATION AUTHORITY AND THE NOTTAWASAGA VALLEY CONSERVATION AUTHORITY.

- ### CONSULTANTS RECOMMENDATIONS (NOT INCLUDED IN PREVIOUS NOTES OR SITE PLAN)
- SEE PAGE 28 OF 4
- ### VARIATIONS TO THE CONTROL AND OPERATIONAL STANDARDS
- AS PROVIDED BY SECTION 14(2) 0.13, THE FOLLOWING STANDARDS HAVE BEEN VARIED:
- (1) (X) NO FENCE WILL BE REQUIRED ALONG THE NORTH LIMIT OF THE LICENCE BOUNDARY AS SHOWN ON THE EXISTING AND PROPOSED FENCE DETAIL ON THIS PAGE. NO FENCE WILL BE REQUIRED ALONG THE SOUTH LIMIT OF THE LICENCE BOUNDARY. PROPOSED FENCES AND GATES ARE INSTALLED AND MAINTAINED AT THE EAST AND WEST SITE ENTRANCE IN ACCORDANCE WITH THE EXISTING AND PROPOSED FENCE DETAIL (THIS PAGE).
 - (1) (1) 10B EXCAVATION WILL BE ALLOWED WITHIN 30 METRES OF A WATERBODY AS FOLLOWS AND AS SHOWN ON THIS PLAN, THE SURFACE WATER FEATURING ADJACENT TO PHASE 3A:
 - (1) 9 & 11 EXCAVATION WILL BE ALLOWED WITHIN THE 30-METRE SETBACK ALONG FORMER SIMCOE ROAD 91 FOR PURPOSES OF THE TUNNEL OR OPEN-CUT TO THE EXISTING OPERATIONS LIMITED AMOUNTS OF AGGREGATE AND OVERBURNED MAY BE REMOVED ALONG THE NORTHERN, WESTERN AND EASTERN LIMITS IN ASSOCIATION WITH THE INSTALLATION OF THE RECHARGE MITIGATION SYSTEM IF REQUIRED.
 - (1) 10A & 10B IN-ADDITION, THERE SHALL BE A 0.0 M SETBACK FROM THE EASTERN LICENCE LIMIT AND THE NORTHERN WETLAND A AND ANS WETLAND B. FINALLY, THERE SHALL BE A 0.0 M SETBACK WHERE THE LICENCE BOUNDARY ADJUTS THE NORTHERN PENINSULA. THIS IS IN RECOGNITION OF WALKER AGGREGATES INC.'S OWNERSHIP OF THE LANDS TO THE EAST AND THE NORTH ACQUIRED FOR BUFFER PURPOSES AND IN RECOGNITION THAT THE LICENCE BOUNDARY IS SETBACK 120 M FROM ROB ROY UNIT 2 WETLAND AND 100 M FROM COLONY 1 OF THE AMERICAN HART'S TONGUE FERN.
 - (1) 17 & 18 EXCESS TOPSOIL AND OVERBURNED MAY BE REMOVED FROM THIS SITE AND TRANSPORTED TO THE ADJACENT LICENCE NO. 3514.
 - (1) 19A A VERTICAL FACE IS PERMITTED FOR AESTHETIC PURPOSES AS SHOWN ON PAGE 3 OF 4 OF THESE PLANS.
 - (1) 11 LIMITED AMOUNTS OF AGGREGATE AND/OR OVERBURNED MAY BE REMOVED FROM THE SETBACKS TO FACILITATE THE CONSTRUCTION OF THE TUNNEL CROSSING.
 - (1) 2 A GATE SHALL NOT BE REQUIRED FOR THE TUNNEL CROSSING.
 - (1) 3 A CLEAR VIEW OF THE ROAD ABOVE IN BOTH DIRECTIONS SHALL NOT BE PROVIDED AT THE TUNNEL CROSSING.
 - (1) 9 & 10.6A EXCAVATION SHALL OCCUR WITHIN THE SETBACK IN ORDER TO FACILITATE CONSTRUCTION ASSOCIATED WITH THE TUNNEL.
 - (1) 11 AGGREGATE / OVERBURNED SHALL BE REMOVED FROM THE SETBACK TO FACILITATE CONSTRUCTION ASSOCIATED WITH THE TUNNEL.
 - (1) 16 THE BERM CONSTRUCTED SOUTH OF THE HYDRO EASEMENT ALONG TOWNSHIP ROAD 91 MAY BE LOCATED WITHIN THREE METRES OF THE LICENCE BOUNDARY.
- ### PRESCRIBED CONDITIONS
- DUST WILL BE MITIGATED ON SITE.
 - WATER OR ANOTHER PROVINCIALY APPROVED DUST SUPPRESSANT WILL BE APPLIED TO INTERNAL HAUL ROADS AND PROCESSING AREAS AS OFTEN AS REQUIRED TO MITIGATE DUST.
 - PROCESSING EQUIPMENT WILL BE EQUIPPED WITH DUST SUPPRESSANT OR COLLECTION DEVICES, WHICH THE EQUIPMENT CREATES DUST AND IS BEING OPERATED WITHIN 300 METRES OF THE RECEPTOR.
 - ANY RECOMMENDATIONS AND/OR RECOMMENDED MONITORING PROGRAM IDENTIFIED IN THE TECHNICAL REPORT WILL BE DESCRIBED ON THIS PLAN AND ALL RECORDS WILL BE RETAINED BY THE LICENSEE UNDER AND MADE AVAILABLE UPON REQUEST BY THE MINISTRY OF NATURAL RESOURCES FOR AUDIT PURPOSES.
 - A SPILLS CONTINGENCY PROGRAM WILL BE DEVELOPED PRIOR TO SITE PREPARATION.
- PRESCRIBED CONDITIONS CONTINUED ON PAGE 28 OF 4



PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE

MHC MBCC

Scale 1:3,000

0 25 50 100 150m

DRAFT REVISIONS

DATE

PROJECT NAME: Duntroon Quarry Expansion

Walker Aggregates Inc.

Walker Industries Holdings Limited

Aggregates and Construction Group

P.O. Box 100 Thorold Ontario L2V 3V8

Operational 2B of 4 Plan



PRESCRIBED CONDITIONS (cont'd)

- 3.6 REFUELING AND MAINTENANCE OF MOBILE ON-SITE EQUIPMENT (NOT OFF SITE HAULAGE TRUCKS) WILL TAKE PLACE ON AN IMPROVED PAD DESIGNED TO CONTROL FUEL SPILLS OF AND ABOVE GROUND FUEL TANKS SHALL BE DOUBLE WALLED IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SAFETY ACT AND THE HAZARDOUS LIQUID SPILLING CODE AND THE FUEL CODE. ALL FUEL STORAGE AND REFUELING OPERATIONS WILL BE CARRIED OUT IN THE AREA SHOWN AS FUEL STORAGE AND REFUELING OPERATIONS. FUEL DISPENSERS WILL BE USED TO TRANSPORT FUEL TO THE SITE AND TO REFUEL THE PORTABLE PROCESSING PLANT AND MOBILE EQUIPMENT. FUEL LEAKAGE AND SPILLS SHALL BE SET OUT IN WALKER'S PART 151 PROTOCOL AND EMERGENCY RESPONSE HANDBOOK SHALL BE IMPLEMENTED AS REQUIRED.
- 3.7 IF REQUIRED, AN ENVIRONMENTAL COMPLIANCE APPROVAL WILL BE OBTAINED FOR THE DISCHARGE OF WATER TO BE DISCHARGED OFF SITE.
- 3.8 IF REQUIRED, AN ENVIRONMENTAL COMPLIANCE APPROVAL WILL BE OBTAINED FOR PROCESSING EQUIPMENT TO BE USED ON SITE.
- 3.9 IF REQUIRED, A PERMIT TO TAKE WATER WILL BE OBTAINED FOR UTILIZING GROUND AND/OR SURFACE WATER.
- 3.10 THE **LIKENESS LICENCE** WILL MONITOR ALL BLASTS, GROUND VIBRATIONS AND BLASTS OVERPRESSURE AND WILL OPERATE TO ENSURE COMPLIANCE WITH CURRENT PROVINCIAL GUIDELINES.
- 3.11 BLASTING WILL NOT OCCUR ON A HOLIDAY OR BETWEEN THE HOURS OF 6:00 PM ON ANY DAY AND 8:00 AM ON THE FOLLOWING DAY.
- 3.12 ALL BLAST MONITORING REPORTS MUST BE RETAINED BY THE **LIKENESS LICENCE** AND MADE AVAILABLE UPON REQUEST BY THE MINISTRY OF NATURAL RESOURCES FOR AUDIT PURPOSES.

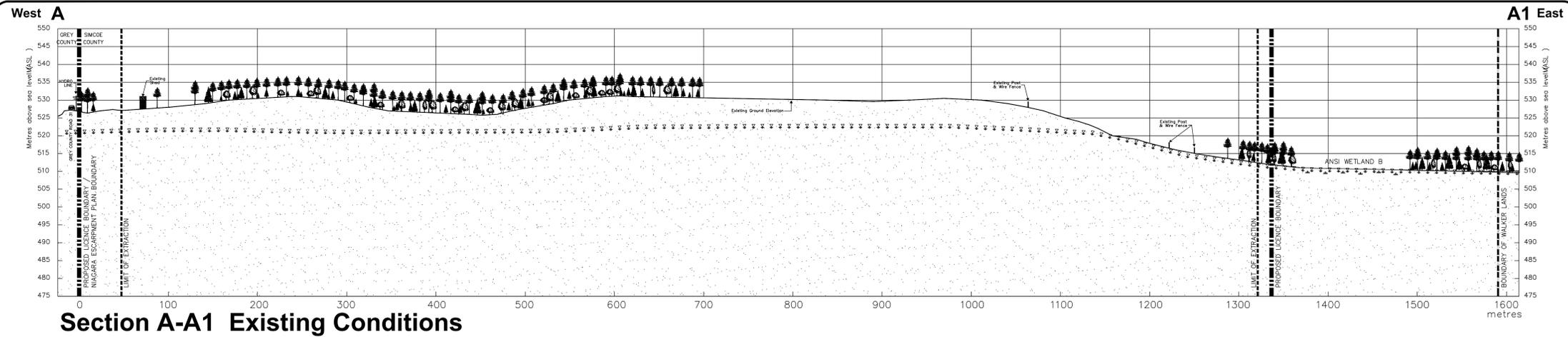
CONSULTANTS RECOMMENDATIONS (NOT INCLUDED IN PREVIOUS NOTES OR SITE PLAN)

- ### HYDROLOGY
1. PUMPING OF WATER THAT ACCUMULATES IN THE EXCAVATION AS A RESULT OF DIRECT PRECIPITATION, SURFACE WATER RUNOFF, AS WELL AS SOME GROUNDWATER INFLOW, WILL BE REQUIRED IN ORDER TO MAINTAIN DRY WORKING CONDITIONS ACROSS THE QUARRY FLOOR.
 2. WATER THAT ACCUMULATES ON THE QUARRY FLOOR WILL BE CHANNLED INTO THE MAIN SUMP FOR RE-USE. EXCESS WATER WILL BE RETURNED TO THE OWNER SHALL OBTAIN AN ENVIRONMENTAL COMPLIANCE APPROVAL PURSUANT TO THE OWA WHICH SHALL ENSURE APPROPRIATE WATER QUALITY DISCHARGE STANDARDS.
 3. WATER ACCUMULATED IN THE AREAS NOTED ABOVE WILL BE USED IN THE FOLLOWING ORDER OF PRIORITY FOR MITIGATION OF OFF SITE IMPACTS IN ACCORDANCE WITH THESE SITE PLANS, OR AS REFERRED OR AUGMENTED BY AN ADAPTIVE MANAGEMENT PLAN APPROVED BY THE MINISTRY OF NATURAL RESOURCES: (1) DUST CONTROL AND ROAD CLEANING, (2) FOR PORTABLE AGGREGATE PROCESSING OPERATIONS, AND (3) FOR IRRIGATION OF LANDSCAPED AREA.
 4. AGGREGATE PROCESS WATER WILL BE DIRECTED TO A SETTLING POND SYSTEM FOR REMOVAL OF FINES AND CLEAN WATER WILL BE RETURNED TO THE SUMP OR OTHER SOURCE WATER PONDS FOR REUSE.
 5. A SUMP, EXTENDING BELOW THE QUARRY FLOOR, IS TO BE LOCATED WITHIN THE PHASE 1 EXTRACTION AREA FOR PORTABLE QUARRY PROCESSING PURPOSES. THIS SUMP SHALL BE LOCATED AT THE EAST END OF THE QUARRY FLOOR HAS REACHED 500 MMS AND WILL REMAIN IN THAT GENERAL LOCATION THROUGHOUT THE LIFE OF THE QUARRY. THE SUMP IS TO BE SIZED TO PROVIDE SUFFICIENT STORAGE OF WATER FOR THE OPERATIONS FOR THE LIFE OF THE QUARRY (I.E. APPROXIMATELY 50 METRES BY 50 METRES AT THE MINIMUM DEPTH OF 5 METRES). THE SUMP WILL BE DESIGNED AND ENLARGED AS NECESSARY TO ACCOMMODATE FINAL EXTRACTION (DOWN TO AN ELEVATION OF +465 MMS) NEAR THE PHASE 1 AREA. IN ADDITION, A SECOND SUMP MAY BE CREATED AND WILL FOLLOW THE EXTRACTION FACE FOR ONGOING QUARRY DEACTIVATION.
 6. IMPLEMENT GROUNDWATER AND SURFACE WATER MONITORING PROGRAMS AS DESCRIBED BELOW, OR AS REFERRED OR AUGMENTED IN AN ADAPTIVE MANAGEMENT PLAN APPROVED BY THE MINISTRY OF NATURAL RESOURCES.

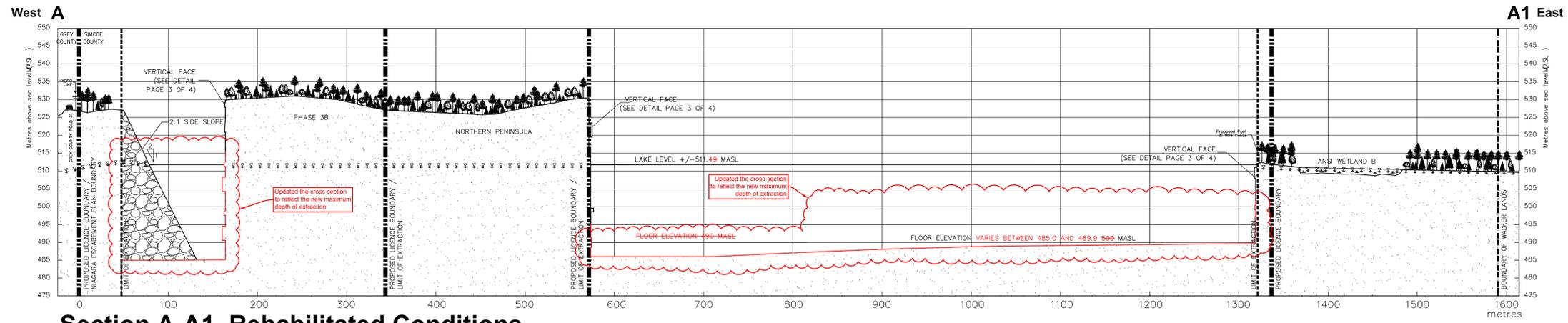
GENERAL
MONITORING SHALL BE UNDERTAKEN BY A QUALIFIED PERSON AS DEFINED BY THE MINISTRY OF THE ENVIRONMENT FOLLOWING CONTINGENCY INDUSTRY STANDARDS.
MONITORING LOCATIONS EXISTING AS OF JUNE 2010 ARE SHOWN IN FIGURE 2-1 OF THE WATER RESOURCES MONITORING PROGRAM SUMMARY REPORT (2008-2009), MARCH 2010, GENIVIA CONSULTANT LP.
MONITORING IS SUBJECT TO LANDOWNER PERMISSION FOR LOCATIONS ON PRIVATE PROPERTY.

PERFORMANCE INDICATOR MONITORING PROGRAM

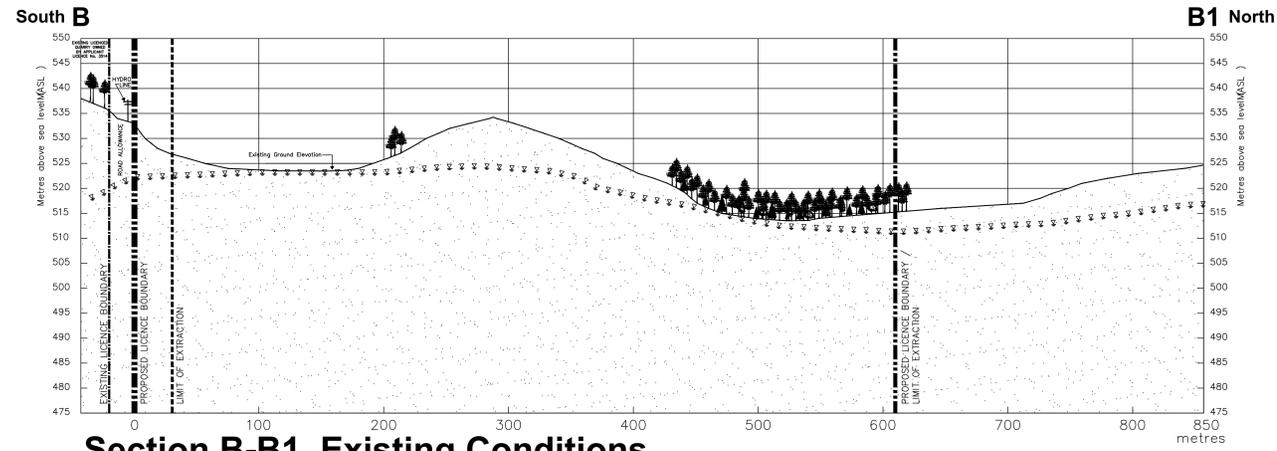
- (A) SURFACE WATER CHANNEL FLOW AND TEMPERATURE SHALL BE MONITORED AT THE FOLLOWING LOCATIONS:
 - 1) PRETTY RIVER TRIBUTARY SYSTEM: SW1, SW2, SW7A, SW7B, SW8, AND CONTROL STATION;
 - 2) BATEAUX CREK TRIBUTARY SYSTEM: SW9, SW4, SW5, AND CONTROL STATION;
 - 3) BEAVER RIVER TRIBUTARY SYSTEM: SW6, SW1, SW2, SW3, SW4, SW5, AND CONTROL STATION IN ROB ROY PSW UNIT 3 AT THE KARST SINK POINT CHANNEL. (TO BE INSTALLED PRIOR TO EXTRACTION).
 STAGE-DISCHARGE RELATIONSHIPS SHALL BE DEVELOPED FOR EACH LOCATION. CONTROL STATIONS WILL BE IDENTIFIED IN CONSULTATION WITH THE NOTTAWASAGA VALLEY CONSERVATION AUTHORITY.
MONITORING SHALL BE CONDUCTED AS FOLLOWS:
 - 1) HOURLY: WATER LEVEL, STAGE, AND TEMPERATURE WILL BE RECORDED BY A DATALOGGER AT ALL STATIONS. STATIONS SW1A, SW1, SW7A, SW7B AND ALL CONTROL STATIONS SHALL BE EQUIPPED WITH LOGGERS TO RECALL THE DATA TRANSFER CAPABLE.
 - 2) MONTHLY: DOWNLOAD DATA FROM THE DATALOGGER AT ALL STATIONS. MEASUREMENT OF FLOW PH, TEMPERATURE, CONDUCTIVITY AND DISSOLVED OXYGEN.
 - 3) QUARTERLY: MEASUREMENT OF STREAMFLOW AS CHECK ON STAGE-DISCHARGE RELATIONSHIPS.
 - 4) ANNUALLY: SAMPLE FOR WATER QUALITY PARAMETERS INCLUDING pH, TEMPERATURE, DISSOLVED OXYGEN, SPECIFIC CONDUCTANCE, ALKALINITY, HARDNESS, COLOUR, TOTAL SUSPENDED SOLIDS MAJOR AND MINOR ION CONSTITUENTS, NUTRIENTS, AMMONIA, TOTAL PETROLEUM HYDROCARBONS AND BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE).
- (B) SURFACE WATER ELEVATION SPRINGS SHALL BE MONITORED AT THE FOLLOWING LOCATIONS:
 - 1) PRETTY RIVER TRIBUTARY SYSTEM: SW2C, SW2A, SW77
 - 2) BATEAUX CREK TRIBUTARY SYSTEM: SW10, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW18, SW19, SW20, SW21, SW22, SW23, SW24, SW25, SW26, SW27, SW28, SW29, SW30, SW31, SW32, SW33, SW34, SW35, SW36, SW37, SW38, SW39, SW40, SW41, SW42, SW43, SW44, SW45, SW46, SW47, SW48, SW49, SW50, SW51, SW52, SW53, SW54, SW55, SW56, SW57, SW58, SW59, SW60, SW61, SW62, SW63, SW64, SW65, SW66, SW67, SW68, SW69, SW70, SW71, SW72, SW73, SW74, SW75, SW76, SW77, SW78, SW79, SW80, SW81, SW82, SW83, SW84, SW85, SW86, SW87, SW88, SW89, SW90, SW91, SW92, SW93, SW94, SW95, SW96, SW97, SW98, SW99, SW100, SW101, SW102, SW103, SW104, SW105, SW106, SW107, SW108, SW109, SW110, SW111, SW112, SW113, SW114, SW115, SW116, SW117, SW118, SW119, SW120, SW121, SW122, SW123, SW124, SW125, SW126, SW127, SW128, SW129, SW130, SW131, SW132, SW133, SW134, SW135, SW136, SW137, SW138, SW139, SW140, SW141, SW142, SW143, SW144, SW145, SW146, SW147, SW148, SW149, SW150, SW151, SW152, SW153, SW154, SW155, SW156, SW157, SW158, SW159, 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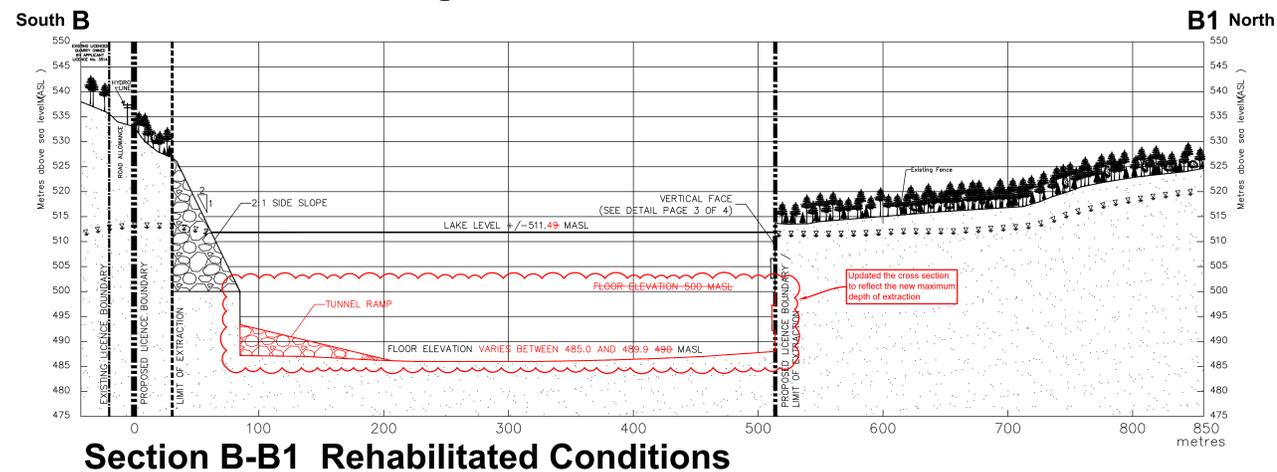
Section A-A1 Existing Conditions



Section A-A1 Rehabilitated Conditions



Section B-B1 Existing Conditions



Section B-B1 Rehabilitated Conditions

Cross Sections 4 of 4

Legend

- Walker Aggregates Inc. Lands
- Expansion Licence Boundary
- Swamp or Wetland
- Limit of Extraction
- South Quarry Licence Boundary
- Ground Water Table

For Details of Plan View see Pages 1, 2A & 3 of 4

- NOTES:**
- TOPOGRAPHIC INFORMATION PROVIDED BY NORTHWAY-PHOTOGRAPHY INC. AND GENERATED FROM AERIAL PHOTOGRAPHY FLOWN IN SPRING OF 2002. CONTOUR INTERVAL IS 2.0m, WITH 1.0m INTERPOLATED CONTOURS. ALL ELEVATIONS ARE INDICATED IN (MASL).
 - HYDROGEOLOGICAL INFORMATION OBTAINED FROM "GEOLOGICAL REPORT AND LEVEL 2 HYDROGEOLOGICAL ASSESSMENT" DATED SEPTEMBER 2005 AND "LEVEL 2 HYDROGEOLOGICAL ASSESSMENT ADDENDUM" DATED OCTOBER 2007 PREPARED BY JAGGER HIMS LIMITED INDICATES THE GROUND WATER TABLE ACROSS THE LICENCED AREA VARIES SEASONALLY FROM ±509 MASL TO ±511 MASL IN THE TOPOGRAPHICALLY LOW AREAS, TO ±518 MASL TO ±526 MASL IN THE TOPOGRAPHICALLY HIGH AREAS.
 - CROSS SECTIONS PLOTTED FROM ABOVE REFERENCED TOPOGRAPHIC INFORMATION.
 - FOR PLAN VIEW OF CROSS SECTIONS, SEE "EXISTING FEATURES" PLAN, PAGE 1 OF 4 AND "REHABILITATION" PLAN, PAGE 3 OF 4.
 - SEE TYPICAL PLANTING BLOCK DETAIL (PAGE 3 OF 4) AND GENERAL NOTE 4 (PAGE 3 OF 4) FOR ADDITIONAL INFORMATION ON SLOPE TREATMENTS.
 - GROUNDWATER ELEVATIONS SHOWN ARE BASED ON ASSUMPTION THAT THE MAQ QUARRY (WEST OF GREY COUNTY ROAD 31) IS OPERATING AT THE SAME TIME AND IS REHABILITATED AT THE SAME TIME AS THIS LICENCE.

MHC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
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DRAFT REVISIONS

NO.	DATE	DESCRIPTION
1	2024.08.28	ISSUED FOR PERMIT

Scales:
Horizontal 1:2,000
Vertical 1:500
Vertical Exaggeration 4x
Unless Otherwise Noted on Plan

I ACKNOWLEDGE AND SHALL CARRY ON MY OPERATION IN ACCORDANCE WITH THIS SITE PLAN UPON WHICH MY LICENCE IS BASED.

LICENCEE / SIGNATURE: _____ DATE: _____

PROJECT NAME:
Duntroon Quarry Expansion

Job No. 181101
Des. By: A.W.D.S., D.P., Osk. By: C.P.

Lot 25 and Part Lot 26,
Concession XII and
Part Lot 25, Concession XI
Clearview Township
Simcoe County

Walker Aggregates Inc.
Walker Industries

Walker Industries Holdings Limited
Aggregates and Construction Group
P.O. Box 100 Thorold Ontario
L2V 3Y8

