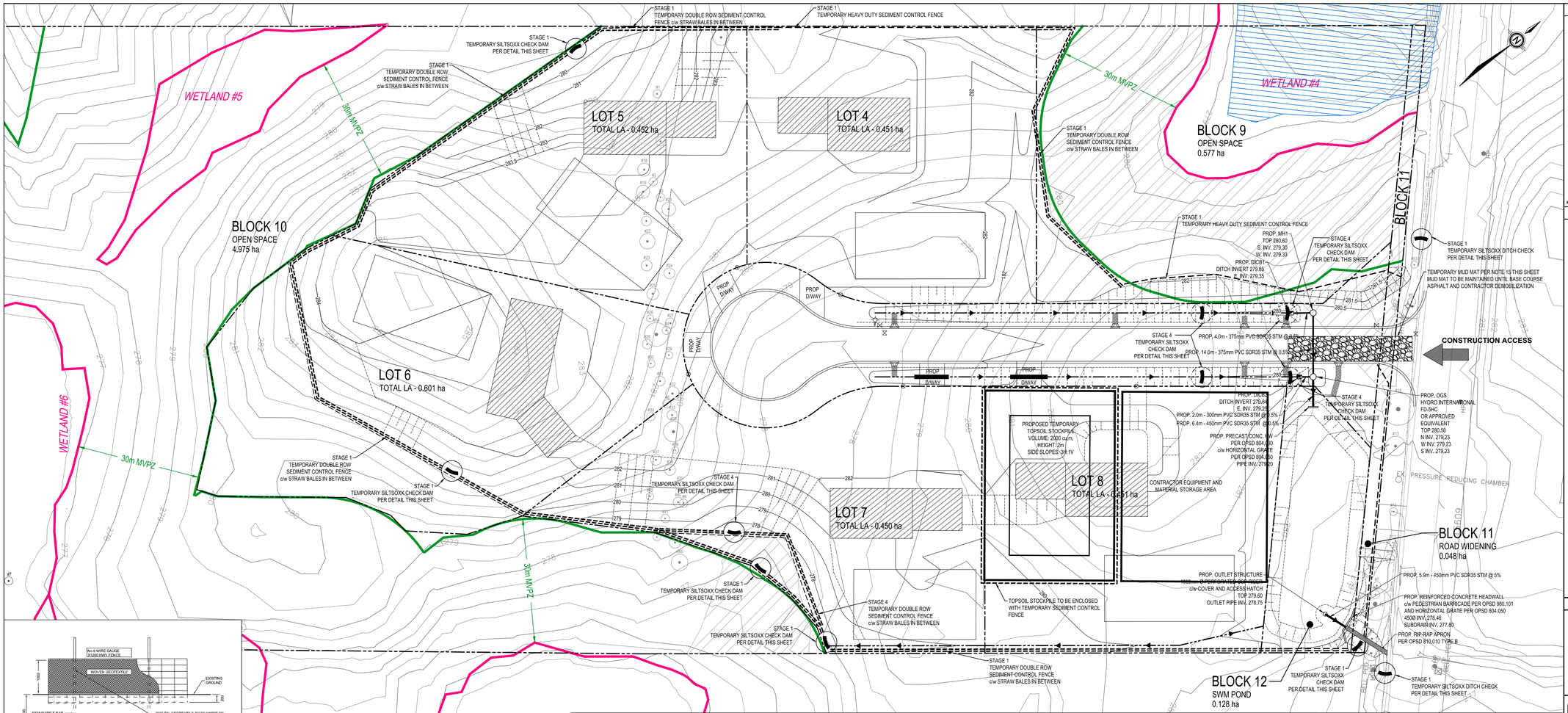
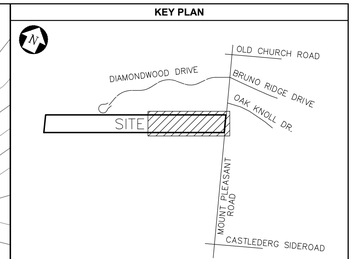


KEY PLAN



KEY PLAN — TOWN OF CALEDON — NTS

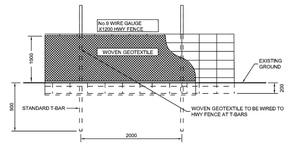
LEGEND

- KEY NATURAL HERITAGE FEATURE
- KEY NATURAL HERITAGE FEATURE 30m MINIMUM VEGETATION PROTECTION ZONE (MVPZ)
- ENVIRONMENTAL ZONE 2
- SILTSOXX DITCH CHECK PER DETAIL THIS SHEET - 450mm
- SILTSOXX DITCH CHECK PER DETAIL THIS SHEET - 300mm
- HEAVY DUTY SEDIMENT CONTROL FENCE PER MODIFIED TOWN OF CALEDON STANDARD DRAWING 304
- DOUBLE ROW HEAVY DUTY SEDIMENT CONTROL FENCE c/w STRAW BALES IN BETWEEN
- PROPOSED MUD MAT

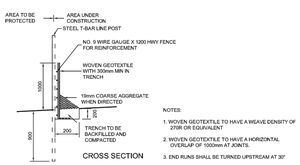
10m 0 10m 20m
SCALE 1:500

GENERAL NOTES

1. THE INFORMATION SHOWN HEREIN IS PRELIMINARY AND SUBJECT TO DETAIL DESIGN.
2. CONTOURS GENERATED FROM ORTHOPHOTOGRAPHY DEVELOPED IN THE SPRING OF 2002, AND SURVEYED ELEVATIONS BY CALDER ENGINEERING LTD. (2017 & 2019) AND EPLETT WOROBEC RAIKES SURVEYING LTD. (2015). ACTUAL ELEVATIONS MAY VARY FROM THOSE SHOWN.
3. EZ2 ZONE LIMITS INFERRED FROM INFORMATION PROVIDED BY AZIMUTH ENVIRONMENTAL CONSULTANTS INC. DATED NOVEMBER 2016.



ELEVATION



CROSS SECTION

NOTES:
1. WOVEN GEOTEXTILE TO HAVE A WEAVE DENSITY OF 27/IR OR EQUIVALENT
2. WOVEN GEOTEXTILE TO HAVE A HORIZONTAL OVERLAP OF 1000mm AT JOINTS.
3. END RUNS SHALL BE TURNED UPSTREAM AT 30°

ALL REFERNECES TO "WOVEN" GEOTEXTILE IN STANDARD NO.304 SHALL BE REPLACED WITH NON WOVEN"

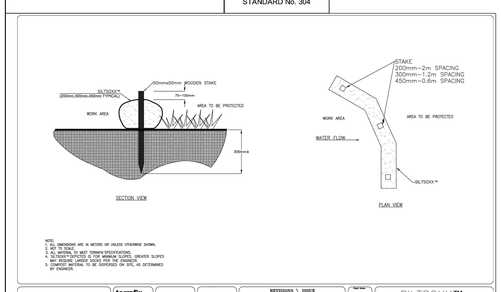
NO.	REVISION	APR'D	DATE
2	NAME CHANGED, STANDARD No. 325.01 NOW 304		JUNE 08
1	SUPPORT FENCING CHANGED TO HWY FENCE		Oct 02

TOWN OF CALEDON

SEDIMENT CONTROL FENCE

APR'D: C.C. DATE: APRIL 2000
DRAWN: BJM SCALE: N.T.S.

STANDARD No. 304



NOTE:
1. ALL DIMENSIONS ARE IN METERS OR UNLESS OTHERWISE SHOWN.
2. NOT TO SCALE.
3. ALL MATERIAL TO MEET TERRAFIX SPECIFICATIONS.
4. SILTSOXX™ MAY BE USED ON MILD SLOPES AND GENTLE GREIDER SLOPES MAY REQUIRE LARGER SOXS FOR THE CHANGES.
5. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

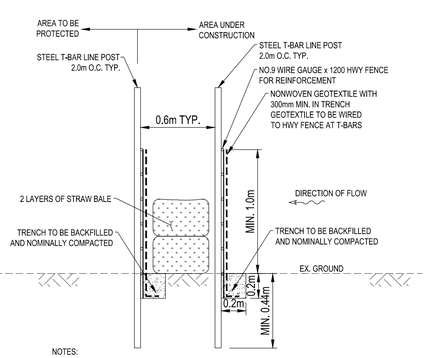
terrafix — 209 George Street Lindsay, Ontario K9V 3L3 705-878-5362

REVISIONS \ ISSUE

SILTSOXX™ APPLICATION DETAIL — Sheet Number 1 OF 1

EMERGENCY CONTACT LIST

NAME/AGENCY	PHONE NUMBER
TOWN OF CALEDON - FINANCE AND INFRASTRUCTURE	905-584-2272
TORONTO AND REGION CONSERVATION	416-661-6600
MINISTRY OF ENVIRONMENT SPILLS REPORTING	416-325-3000
OWNER - LAURELPARK INC.	905-822-2615
PROJECT ENGINEER - CALDER ENGINEERING LTD.	905-857-7600



NOTES:
1. NONWOVEN GEOTEXTILE TO HAVE A HORIZONTAL OVERLAP OF 1000mm AT JOINTS.
2. END RUNS SHALL BE TURNED UPSTREAM AT 30°.
3. STRAW BALES TO BE PLACED CONTINUOUSLY END TO END BETWEEN SEDIMENT CONTROL FENCE.

DOUBLE SEDIMENT CONTROL FENCE WITH STRAW BALES DETAIL — SCALE: NTS — 2/09

EROSION AND SEDIMENT CONTROL NOTES

SITE MANAGEMENT

1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES TO BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF INSPECTION.
2. DISTURBED AREAS TO BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
3. ALL IN-WATER AND NEAR WATER WORKS TO BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
4. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
5. AN ENVIRONMENTAL MONITOR TO ATTEND THE SITE TO INSPECT ALL NEW CONTROLS, AS WELL AS ON A REGULAR BASIS, OR FOLLOWING RAIN/SNOWMELT EVENT, TO MONITOR ALL WORKS, AND IN PARTICULAR WORKS RELATED TO EROSION AND SEDIMENT CONTROLS, DEWATERING OR UNWATERING, RESTORATION AND IN-WATER OR NEAR WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR SHALL CONTACT THE TRCA ENFORCEMENT OFFICER AS WELL AS THE PROPONENT.
6. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, TO BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE TO BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
7. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS TO BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR SHALL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G. FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
8. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
9. ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THE WATERCOURSE UNLESS APPROVED BY THE TRCA.

CONSTRUCTION TIMING

10. IN ORDER TO COMPLY WITH THE MIGRATORY BIRDS CONVENTION ACT, TRCA RECOMMENDS THAT TREE REMOVALS BE COMPLETED BETWEEN AUGUST 1 AND APRIL 1.
11. TO PROTECT LOCAL FISH POPULATIONS DURING THEIR SPAWNING, NURSERY AND MIGRATORY PERIODS, IN-WATER/NEAR WATER ACTIVITIES MAY ONLY OCCUR DURING THE FOLLOWING TIME PERIOD [TRCA TO CONFIRM TIMING WINDOW DURING REVIEW OF FIRST SUBMISSION].

FISH AND WILDLIFE RELOCATION

12. FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA UNDER THE SUPERVISION OF A QUALIFIED AQUATIC BIOLOGIST. A PERMIT FROM THE MINISTRY OF NATURAL RESOURCES IS REQUIRED.

ENVIRONMENTAL COMPLIANCE

13. PLEASE NOTIFY THE TRCA AT 416-661-6000 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
14. AN ENVIRONMENTAL MONITOR TO BE ON SITE, AND PROVIDE ADVICE, TO ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA ENFORCEMENT OFFICER AND PROJECT MANAGER IF AN ISSUE ARISES.

EROSION AND SEDIMENT CONTROLS

15. MUD MAT TO BE PROVIDED ON SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. MUD MAT(S) SHALL BE A MINIMUM OF 5m WIDE, 30m LONG AND 0.45m DEEP. THE MUD MAT(S) SHALL CONSIST OF 50-100mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT EXCEPT FOR THE FIRST 15m WHICH SHALL BE 50mm CLEAR STONE. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MUD MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.
16. TOPSOIL AND MATERIAL STOCKPILES TO BE ENCLOSED WITH SEDIMENT CONTROL FENCE. SEDIMENT CONTROL FENCE FOR STOCKPILES TO BE TERRAFIX TERRAFENCE OR APPROVED EQUIVALENT.
17. REMOVE TEMPORARY SEDIMENT CONTROLS FOLLOWING COMPLETION OF CONSTRUCTION AND SITE STABILIZATION AND REINSTATE AFFECTED AREAS TO EXISTING CONDITIONS OR BETTER. TIMING OF REMOVAL OF TEMPORARY SEDIMENT CONTROLS TO BE APPROVED BY TOWN STAFF.
18. SEDIMENT CONTROL FENCING ON LOTS TO REMAIN IN PLACE UNTIL BUILDER HOME CONSTRUCTION AND THEN EITHER BE MAINTAINED, REMOVED OR AUGMENTED. SEDIMENT CONTROL FENCE TO BE REMOVED BY BUILDER ON COMPLETION OF HOUSE CONSTRUCTION AND LOT RESTORATION.

CONSTRUCTION PHASING

PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS TO SCHEDULE A MEETING WITH REPRESENTATIVES FROM THE OWNER, TRCA, AND TOWN TO REVIEW CONSTRUCTION PHASING AND EROSION AND SEDIMENT CONTROL PLANNING, ESTABLISH INSPECTION AND REPORTING PROCEDURES, AND DISCUSS CONTINGENCY PLANNING. ANTICIPATED CONSTRUCTION STAGING IS OUTLINED BELOW.

1. INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROLS INCLUDING SEDIMENT CONTROL FENCE, SILTSOXX DITCH CHECKS (450mm) AND SITE ENTRANCE MUD MATS.
2. BIORETENTION AREA PREGRADING AND BIORETENTION AREA OUTLET CONSTRUCTION (TEMPORARY SEDIMENT CONTROL PONDS).
3. TOPSOIL STRIPPING AND STOCKPILING. ENCLOSE STOCKPILES WITH SEDIMENT CONTROL FENCE.
4. PREGRADING OF ROADS, BOULEVARDS, LOTS, AND BIORETENTION AREA. INSTALLATION OF SILTSOXX DITCH CHECKS (300mm) IN DITCHES. INSTALLATION OF LIGHT DUTY SEDIMENT CONTROL FENCING AT STRUCTURE ENVELOPE LIMITS AS NOTED.

   PREGRADED AREAS TO BE STABILIZED BY HYDROSEEDING c/w APPLICATION OF STRAW MULCH PER OPSS 804 TO A DEPTH OF 25mm TO 50mm IF DURATION BETWEEN STAGE 4 AND STAGE 7 EXCEEDS 30 DAYS.
5. CONSTRUCTION OF UNDERGROUND SERVICES.
6. ROAD AND UTILITY CONSTRUCTION, CURB INSTALLATION, AND ASPHALT SURFACING.
7. REMOVE AND DISPOSE SILTSOXX DITCH CHECKS UNLESS OTHERWISE NOTED. BOULEVARD FINE GRADING, TOPSOIL PLACEMENT, AND RESTORATION / SEEDING.
8. BIORETENTION AREA SEDIMENT CLEANOUT, FILTER MEDIA PLACEMENT, FINE GRADING, LOW FLOW CHANNEL AND OUTLET FILTER STRIP INSTALLATION, TOPSOIL PLACEMENT AND RESTORATION / SEEDING.
9. INSTALLATION OF LANDSCAPING AND BUFFER PLANTINGS.
10. BUILDER HOME CONSTRUCTION: EROSION AND SEDIMENT CONTROL MEASURES TO BE SPECIFIED ON A LOT BY LOT BASIS IN CONJUNCTION WITH SITE PLANS PREPARED AS PART OF BUILDING PERMIT APPLICATION STAGE.

Calder Engineering Ltd.
T 905-857-7600 E calder@calderengineering.com W www.calderengineering.com

DESIGNED BY | APPROVED BY

N°	Date	Revisions	Dwn.	Dsg'd.	Chk'd.
D	14/DEC/2020	FOURTH SUBMISSION	KNC	KNC	RJW
C	28/FEB/2020	THIRD SUBMISSION	KNC	KNC	RJW
B	03/MAY/2019	SECOND SUBMISSION	KNC	KNC	RJW
A	15/MAR/2017	FIRST SUBMISSION	KNC	DH	RJW

Client:

LAURELPARK INC.

Project Name:

LAURELPARK SUBDIVISION
PART OF LOT 19, CONCESSION 8 (ALBION)
TOWN OF CALEDON, REGIONAL MUNICIPALITY OF PEEL

Title Name:

PRELIMINARY EROSION AND SEDIMENT CONTROL PLAN
SHEET 1 OF 2

Drawing N°: **16-168-09** | Sheet N°: 9 OF 10 | Scale: 1:500 | Rev. N°: D