

LEGEND:

- EXISTING CATCHBASIN
- EXISTING SANITARY MANHOLE
- EXISTING HYDRANT
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED CATCHBASIN
- VALVE & CHAMBER
- HYDRANT & VALVE
- 0.40 CONTROLLED DRAINAGE AREA (ha) RUNOFF COEFFICIENT
- 0.75
- 15.10 UNCONTROLLED DRAINAGE AREA (ha) RUNOFF COEFFICIENT
- 0.25
- PROPOSED OVERLAND FLOW DIRECTION
- EXISTING OVERLAND FLOW
- PROPOSED DRAINAGE AREA
- EXISTING DRAINAGE AREA
- EXTERNAL DRAINAGE AREA
- PROPOSED ENHANCED GRASS SWALE

PHASE 1& 2: TOPSOIL STRIPPING AND AREA GRADING & SERVICING CONSTRUCTION

TOPSOIL STOCKPILE

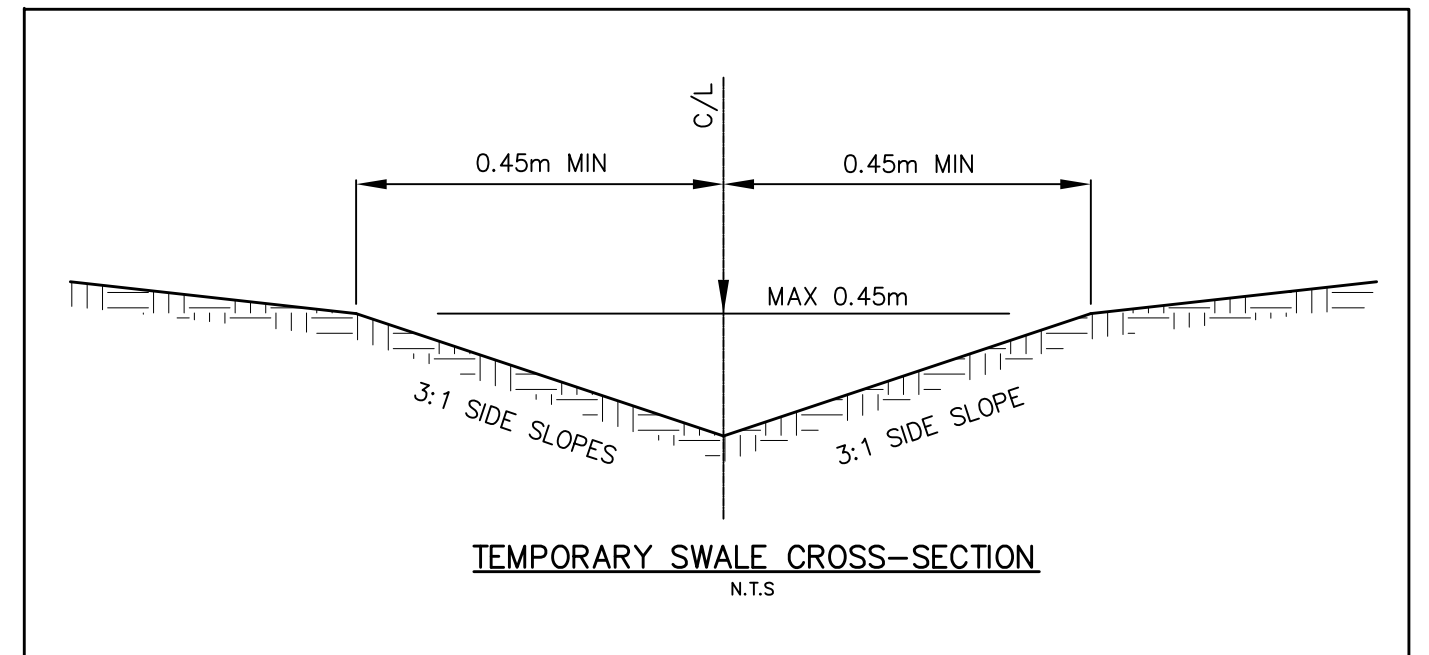
CONTRIBUTING AREA	=9.41ha
STRIPPED DEPTH	=0.30m
REQUIRED PERMANENT POOL VOLUME	=0.30x7.23x10,000
PROVIDED ACTIVE POOL VOLUME	=12,500.00m ³
STOCKPILE FOOTPRINT AREA	=4,000m ²
MAXIMUM HEIGHT	=2:1

TEMPORARY SEDIMENTATION CONTROL POND-A

CONTRIBUTING AREA	=10.10ha
REQUIRED ACTIVE POOL VOLUME	=125m ³ /ha x 10.10ha = 1,262.50m ³
REQUIRED PERMANENT POOL VOLUME	=125m ³ /ha x 10.10ha = 1,262.50m ³
PROVIDED ACTIVE POOL VOLUME	=1,500.00m ³ (0.50m DEEP)
PROVIDED PERMANENT POOL VOLUME	=1,400.00m ³ (0.50m DEEP)
TOTAL PROVIDED VOLUME	=2,700.00m ³

TEMPORARY SEDIMENTATION CONTROL POND-B

CONTRIBUTING AREA	=1.75ha
REQUIRED ACTIVE POOL VOLUME	=125m ³ /ha x 1.75ha = 218.75m ³
REQUIRED PERMANENT POOL VOLUME	=125m ³ /ha x 1.75ha = 218.75m ³
PROVIDED ACTIVE POOL VOLUME	=250.00m ³ (0.50m DEEP)
PROVIDED PERMANENT POOL VOLUME	=230.00m ³ (0.50m DEEP)
TOTAL PROVIDED VOLUME	=460.00m ³



- DECOMMISSIONING OF TEMPORARY SEDIMENT CONTROL BASINS**
- AS DIRECTED BY THE CONSULTANT, REMOVE THE TEMPORARY HEADWALL STRUCTURE, MANHOLES, RIP RAP, FILTER FABRIC AND ANY CLEAR STONE AT THE BOTTOM OF THE TEMPORARY SEDIMENT CONTROL BASINS AND DISPOSE OFF-SITE.
 - EXCAVATE AND REMOVE ALL MATERIAL 0.60 METRE (MIN) BELOW BOTTOM OF THE TEMPORARY SWM POND OR MORE AS DIRECTED BY THE GEOTECHNICAL CONSULTANT. ALL EXCAVATED MATERIAL TO BE DISPOSED OFF-SITE.
 - ONCE THE TEMPORARY TEMPORARY SEDIMENT CONTROL BASINS HAVE BEEN REMOVED, THE LAND IS TO BE ENGINEERED FILLED. ALL FILLING IS TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY, OR AS APPROVED BY THE GEOTECHNICAL CONSULTANT.
 - IF DISCHARGING THE WATER THROUGH A FILTER BAG THE LOCATION OF THE DISCHARGE POINT MUST BE 30m AWAY FROM THE WATERCOURSE.

- DEWATERING NOTES:**
- LAY FILTER FABRIC
 - PLACE SEDIMENT BAG ON FILTER FABRIC
 - PLACE SILT SOXX ALONG THE PARAMETER OF FILTER FABRIC
 - PUMP SEDIMENT LADEN WATER FROM EROSION POND TO THE SEDIMENT BAG
 - TREATED WATER TO DISCHARGE TO CATCHBASIN
 - USE THE SAME METHOD FOR DEWATERING OF SEDIMENT TRAPS
- LEGEND:**
- INTERCEPTOR SWALE
 - CATCHBASIN SEDIMENT CONTROL DEVICE
 - TEMPORARY SILT/SOXX
 - HEAVY DUTY SILT FENCE BARRIER
 - MUD-MAT FOR TEMPORARY CONSTRUCTION ACCESS

- EROSION AND SEDIMENT CONTROL GENERAL NOTES**
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVAL FROM THE TOWN AND EXTERNAL AGENCIES PRIOR TO ANY SITE ALTERATION ACTIVITY.
 - PRIOR TO COMMENCEMENT OF ANY ON-SITE/POSTSOIL STRIPPING, EROSION & SEDIMENT CONTROL (ESC) MEASURES, AS PER APPROVED SITE ALTERATION PLAN, MUST BE INSTALLED AND APPROVED BY THE DIRECTOR OF ENGINEERING. ADDITIONAL ESC MEASURES, IF REQUIRED, SHALL BE INSTALLED AS DIRECTED BY THE DIRECTOR OF ENGINEERING. THE ESC MEASURES SHALL REMAIN IN PLACE UNTIL DIRECTED BY THE DIRECTOR OF ENGINEERING FOR THEIR REMOVAL.
 - TREES ARE TO BE RESERVED AS PER THE APPROVED TREE PRESERVATION PLAN.
 - NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL BE ALLOWED BEYOND THE SILT/SNOW FENCE OR LIMITS OF THE SUBDIVISION.
 - THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT DUST CONTROL MEASURES AND CONSTRUCTION PRACTICE GUIDELINES AS APPROVED BY TOWN/TRCA.
 - THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ESC MEASURES IN WORKING CONDITIONS AT ALL TIMES TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING. THE CONTRACTOR SHALL ROUTINELY INSPECT ALL ESC DEVICES MINIMUM ONCE A WEEK AND AFTER EACH RAINFALL EVENT GREATER THAN 10mm TO ENSURE THAT ESC MEASURES ARE IN PROPER WORKING CONDITIONS. ANY DAMAGES MUST BE REPAIRED WITHIN 24 HOURS.
 - ALL CONSTRUCTION VEHICLES MUST ENTER AND EXIT THE SITE ONLY FROM THE APPROVED ACCESS ROUTE(S) AS SHOWN ON THE PLAN.
 - CATCHBASIN SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED IMMEDIATELY AFTER BASE ASPHALT.
 - SEDIMENTS COLLECTED IN THE SEDIMENT CONTROL PONDS SHALL BE REMOVED WHEN 50% OF THE STORAGE CAPACITY IS FILLED. THE POND SHALL BE KEPT IN OPERATION UNTIL SODDING OF DISTURBED AREAS IS COMPLETED TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING.
 - ALL DISTURBED GROUND LEFT INACTIVE FOR OVER 30 DAYS SHALL BE VEGETATED, SUBJECT TO WEATHER CONDITIONS, BY SEEDING OR APPROVED EQUIVALENT TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING.
 - ALL TOPSOIL STOCKPILES IF REMAIN ON SITE FOR MORE THAN 30 DAYS SHALL BE VEGETATED, SUBJECT TO WEATHER CONDITIONS, BY SEEDING OR APPROVED EQUIVALENT TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING.
 - STREET SWEEPING/CATCHBASIN CLEANING PROGRAM TO BE IMPLEMENTED UPON COMPLETION OF BASE ASPHALT TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING.
 - ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH SEDIMENT CONTROL FENCE, THE MAXIMUM SIDESLOPES FOR STOCKPILES SHALL BE 1:5 (H) TO 1:0 (V). THE MAXIMUM HEIGHT OF STOCKPILE SHOULD NOT EXCEED 5.0 METRES.
 - 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 (BEN KRUL, TELEPHONE : 416-661-6600 EXT. 5768) SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
 - THE CONTRACTOR SHALL ENDEAVOUR TO PREVENT MUD TRUCKING ONTO EXISTING RIGHT-OF-WAY AND SHALL PROVIDE FOR CLEANUP AT HIS/HER OWN EXPENSE AS DIRECTED BY ENGINEER.
 - THE CONTRACTOR SHALL CARE AND CONTROL SPILLS, FLUIDS, AND MATERIALS DURING CONSTRUCTION TO PREVENT ALL DAMAGES TO EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION

REVISIONS

NO.	BY	DATE	REVISION	CONS. CHECKED	TOWN APPR'D
1					

APPROVED FOR CONSTRUCTION
THIS APPROVAL CONSTITUTES A GENERAL REVIEW AND DOES NOT CERTIFY DIMENSIONAL ACCURACY.
THIS APPROVAL IS SUBJECT TO THE FURTHER CERTIFICATION OF THE "AS CONSTRUCTED" WORKS BY A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO.

DATE: _____ APPROVED BY: _____
H. MUNIZ, P.ENG.
Town Engineer

ELEVATION NOTES
ELEVATIONS ARE BASED ON GPS OBSERVATION FROM PERMANENT REFERENCE STATIONS IN THE MADRS (CGRS-2010) COORDINATES ON THE CANTON CADAM (1978 ADJUSTMENT) WITH CGRS MODEL HTXZA, AS SUPPLIED BY NATURAL RESOURCES CANADA.
LOCAL BENCHMARK
TEMP. TOP OF IRON BAR, 245.55m & TEMP.2 TOP HUT OF FIRE HYDRANT, 247.15m

DESIGNED BY: _____
APPROVED BY: _____

PROPOSED TRANSPORT TRUCK/TRAILER PARKING
12541 & 12577 AIRPORT ROAD
TOWN OF CALEDON

DESIGNED BY: _____
PROJECT No. _____
20-033
PLAN No. _____

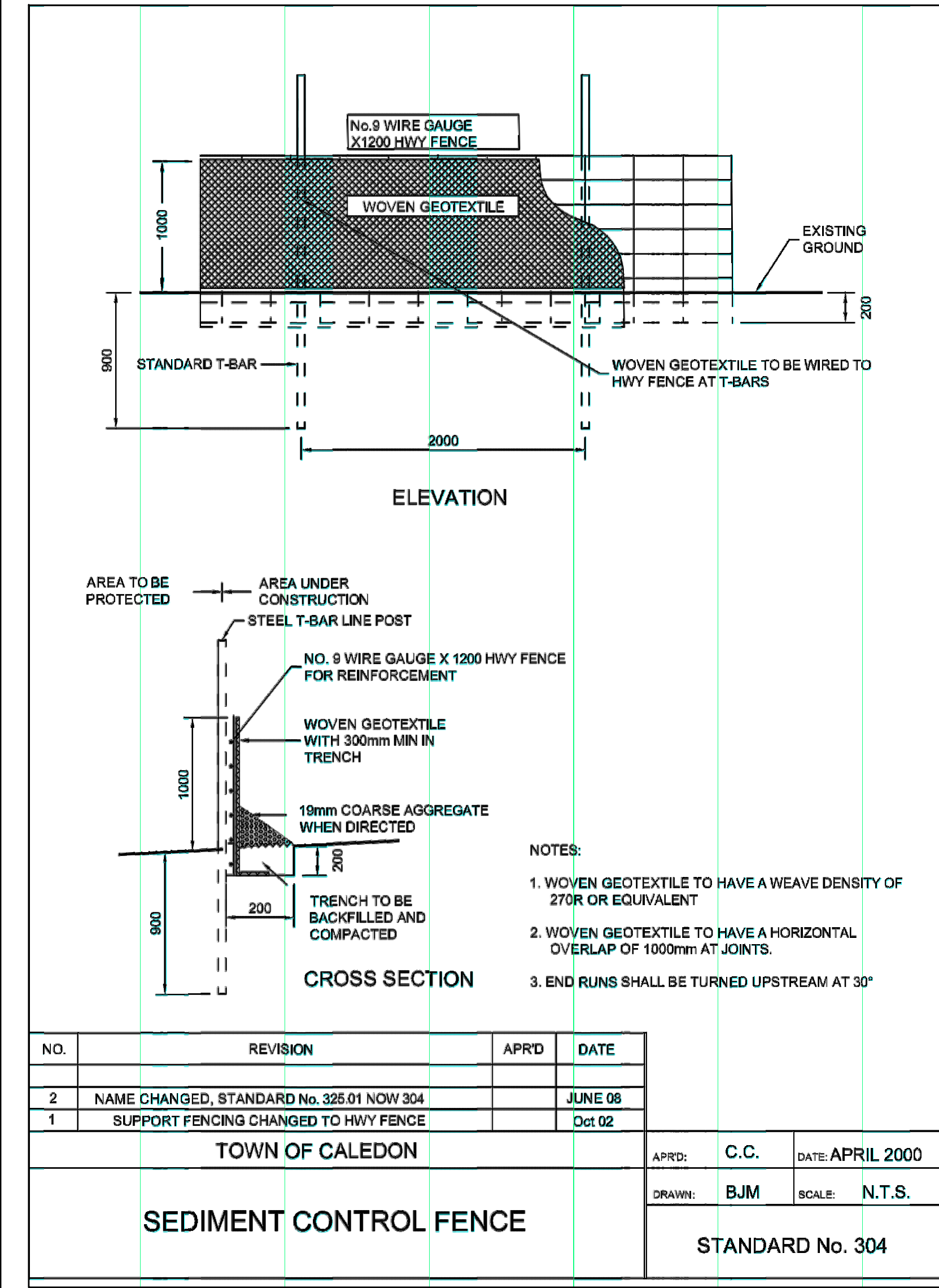
EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1:750
DESIGNED BY: M.N.
CHECKED BY: A.J.

DATE: MARCH 2021

DRAWN BY: MAEL CAD
DATE: _____

PROJECT No. _____
20-033
PLAN No. _____
EC-1



ESC MEASURE	TIMING OF INSTALLATION	INSPECTION/MAINTENANCE REQUIREMENTS	TIMING FOR REMOVAL
PHASE 1 – TOPSOIL STRIPPING AND AREA GRADING			
1. SILTATION CONTROL FENCE (OPSD 219.130)	PRIOR TO TOPSOIL STRIPPING	CONSULTANT TO ARRANGE INSPECTION WITH CITY STAFF ONCE INSTALLATION IS COMPLETE. CONSULTANT TO UNDERTAKE WEEKLY INSPECTIONS AND AFTER EACH RAINFALL EVENT, INCLUDING WEEKLY REPORTING, REGULAR MAINTENANCE TO REMOVE ACCUMULATED SEDIMENT ONCE 50% OF CAPACITY IS EXCEEDED AND REPAIR ESC MEASURES AS REQUIRED.	JUST PRIOR TO FINAL GRADING, REPLACEMENT WITH PHASE 2 MEASURES, OR CONSTRUCTION OF MUNICIPAL SERVICES.
2. CONSTRUCTION MUD MAT (DETAILED ON ESC DRAWING)	PRIOR TO TOPSOIL STRIPPING		
3. DRAINAGE/INTERCEPTOR SWALES (ILLUSTRATED ON ESC DRAWING)	DURING PRE-GRADING WORKS.		
4. SILT/SOXX (CATCHBASIN SEDIMENT CONTROL DEVICE)	DURING PRE-GRADING WORKS.		
5. SEDIMENT CONTROL FACILITY (ILLUSTRATED ON ESC DRAWING)	DURING TOPSOIL STRIPPING.		
6. OTHERS AS REQUIRED	PRIOR TO TOPSOIL STRIPPING, DURING PRE-GRADING WORKS.		
PHASE 2 – MUNICIPAL SERVICING CONSTRUCTION			
1. GRASS VEGETATION HYDROSEEDING OF RESTORATION AREAS	GRADED AREAS TO BE SEEDED WITHIN 2 WEEKS AFTER GRADING AND INSTALLATION OF STORM DRAINAGE SYSTEM IS COMPLETE.	CONSULTANT TO UNDERTAKE WEEKLY INSPECTIONS AND AFTER EACH RAINFALL EVENT, INCLUDING WEEKLY REPORTING, REGULAR MAINTENANCE TO REMOVE ACCUMULATED SEDIMENT ONCE 50% OF CAPACITY IS EXCEEDED AND REPAIR ESC MEASURES AS REQUIRED. RELOCATION OF THE ON-SITE SEDIMENTATION CONTROLS ARE REQUIRED AS BUILDING PROGRESSES.	JUST PRIOR TO FINAL GRADING OR BUILDING CONSTRUCTION
2. SEDIMENT TRAPS (DETAILED ON ESC DRAWING)			
3. DRAINAGE/INTERCEPTOR SWALES (ILLUSTRATED ON ESC DRAWING)			
4. TEMPORARY CONNECTIONS TO STORM SEWER (ILLUSTRATED ON ESC DRAWING)			
5. STORM DRAIN INLET PROTECTION, SILT SACK (DETAILED ON ESC DRAWING)			
6. OTHERS AS REQUIRED BY CITY OR TRCA			
PHASE 3 – BUILDING CONSTRUCTION			
STORM SERVICING PLAN			
1. MAINTENANCE AND REPAIRS TO ALL REMAINING ESC MEASURES WITH CITY INSPECTOR. CONSULTANT TO UNDERTAKE WEEKLY INSPECTIONS WITH CITY INSPECTOR	PRIOR TO BUILDING CONSTRUCTION, ESC MEASURES TO BE REPAIRED AS PER CITY DEFICIENCY LIST.	DETAILED INSPECTION OF ALL REMAINING ESC MEASURES WITH CITY INSPECTOR. CONSULTANT TO UNDERTAKE WEEKLY INSPECTIONS AND AFTER EACH RAINFALL EVENT, INCLUDING WEEKLY REPORTING, REGULAR MAINTENANCE TO REMOVE ACCUMULATED SEDIMENT ONCE 50% OF CAPACITY IS EXCEEDED AND REPAIR ESC MEASURES AS REQUIRED.	JUST PRIOR TO FINAL GRADING AND SODDING OF LOT/BLOCK AREAS.
2. REMOVAL OF IDENTIFIED PHASE 1 OR 2 MEASURES			