TOPSOIL AND EROSION AND SEDIMENT CONTROL (ESC) MANAGEMENT STRATEGY THE EROSION AND SEDIMENT CONTROLS SHALL BE A MULTI BARRIER APPROACH TO PREVENT EROSION DURING CONSTRUCTION TO DEAL WITH SEDIMENT TRANSPORT AT SOURCE AND TO MINIMIZE SEDIMENT TRANSPORT FROM LEAVING THE SITE. THE MITIGATION MEASURES OUTLINED BELOW SHALL BE MAINTAINED BY THE CONTRACTOR THROUGH REGULAR INSPECTIONS, MONITORING AND MAINTENANCE UNTIL THE SOIL HAS BEEN STABILIZED. THE CONTRACTOR SHALL KEEP A COPY OF THE ESC PLANS AND THE TORONTO AND REGION CONSERVATION AUTHORITY, EROSION AND SEDIMENT CONTROL GUIDELINE, DECEMBER 2006, ON SITE AT

GENERAL NOTES

- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL 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 THE INSPECTION. 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 ARE TO BE KEPT ON SITE AND USED AS NECESSARY. AN ENVIRONMENTAL MONITOR WILL 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. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE TRCA ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30M FROM THE WATER.
- **EROSION CONTROLS** 1. THE CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE STORM FLOOD PLAIN THAT WOULD HAVE THE POTOTRICATION. CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC. MATERIALS, ETC.

 ALL DEWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30m 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.
- THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBANCE AT ANY ONE TIME TO LIMIT THE DURATION OF SOIL EXPOSURE. CONSTRUCTION SHALL BE PHASED AS NECESSARY AND AREAS STABILIZED AS THE WORK PROGRESSES. AREAS DISTURBED AND LEFT EXPOSED FOR MORE THAN 15 DAYS TO BE PROTECTED WITH LAYER OF STRAW MULCH, TO THE SATISFACTION OF . THE CONTRACTOR SHALL RETAIN AS MUCH EXISTING VEGETATION AS POSSIBLE BY LIMITING THE DISTURBANCE TO NON-ESSENTIAL AREAS AND STABILIZE EXPOSED SOILS QUICKLY. THE PROPOSED VEGETATION SPECIFICATION INCLUDES A FAST GERMINATING SEED MIX TO QUICKLY ESTABLISH GROUND COVER AND SHALL BE APPLIED WITHIN 15 DAYS OF COMPLETING THE CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ENSURE THAT THE PROPOSED VEGETATION GERMINATES AND ESTABLISHES QUICKLY AND SHALL REAPPLY THE GROUND COVER MIX AS DIRECTED BY THE ENGINEER UNTIL A SUITABLE VEGETATED GROUND COVER IS IN PLACE . THE CONTRACTOR SHALL MINIMIZE THE SLOPE LENGTH AND GRADIENT OF DISTURBED AREAS, MAINTAIN OVERLAND SHEET FLOW AND AVOID CONCENTRATED FLOWS.

SEDIMENT CONTROLS

- SILT FENCE TO BE INSTALLED IN LOCATIONS SHOWN ON PLAN AND AS DIRECTED BY SITE ENGINEER. SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF
- SILT FENCE MUST BE INSPECTED FOLLOWING ALL 15mm OR GREATER RAIN STORM EVENT OR AS DIRECTED BY SITE ENGINEER. SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF FENCE. ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER. STONE MUD MAT TO BE INSTALLED PRIOR TO CONSTRUCTION ON SITE. 7. REMOVE ACCUMULATED SEDIMENT UPSTREAM OF ROCK CHECK DAM IF GREATER THAN ONE HALF OF DAM HEIGHT.

 8. SILT REMOVAL FROM FILTREXX CHECK DAMS MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWNSTREAM SEDIMENTATION IN
- SWALE OR DITCH.

 9. SEDIMENT TO BE CLEANED FROM TEMPORARY POND ONCE ACCUMULATION REACHES 50% OF CAPACITY. 10. SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY, OR AS DIRECTED BY THE ENGINEER

GENERAL NOTES

THE ESC STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT. ANY CHANGES FROM THE APPROVED ESC PLANS WILL BE DOCUMENTED AND REPORTED TO THE ENFORCEMENT OFFICE. INSPECTION OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES WILL OCCUR AT THE FREQUENCY DISTURBED AREAS LEFT FOR 30 DAYS OR LONGER MUST BE STABILIZED. EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE INSPECTED WEEKLY, AT A MINIMUM, AFTER RAIN AND SNOW MELT EVENTS AND DAILY DURING EXTENDED RAIN OR SNOWMELT PERIODS. DURING INACTIVE PERIODS, WHERE THE SITE IS INACTIVE FOR 30 DAYS OR LONGER, A MONTHLY INSPECTION SHOULD BE CONDUCTED. ALL DAMAGED ESC MEASURES WILL BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OR SOONER ENVIRONMENTAL RECEPTORS ARE AT IMMINENT AND FORESEFABLE RISK OF ADVERSE IMPACT. ALL SEDIMENT CONTROL MEASURES SUCH AS SEDIMENT CONTROL FENCE, TEMPORARY PONDS, CONSTRUCTION ACCESS MATS, SEDIMENT TRAPS, SWALES AND CHECK DAMS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT ADDITIONAL MATERIALS SUCH AS CLEAR STONE, FILTER FABRIC, PUMPS, HOSES AND SILTSOXX TO BE KEPT ONSITE AT ALL TIMES FOR CONDUCTING REPAIRS TO SEDIMENT CONTROL MEASURES. ENGINEERED CHANGES TO THE ESC MEASURES MAY BE NEEDED AS SITE CONDITIONS CHANGE THROUGHOUT THI CONSTRUCTION PROCESS. THESE UPDATES MUST REFLECT BEST MANAGEMENT PRACTICES TO CONTROL SEDIMENT AND EROSION ONSITE AND SHOULD BE COMPLETED BASED ON DIRECION FROM THE SITE ENGINEER. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY AN ENGINEER THROUGHOUT THE CONSTRUCTION PROCESS. THE CONSTRUCTION ENTRANCE MAT IS TO BE INSTALLED AS THE FIRST STEP IN THE SITE ALTERATION PROCESS. 0. SEDIMENT CONTROL FENCE IS TO BE INSTALLED DOWNSLOPE OF ALL DISTRUBED AREAS. A DOUBLE ROW OF SEDIMENT CONTROL FENCE IS TO BE INSTALLED SURROUNDING ALL NATURAL HERITAGE FEATURES AND AS DIRECTED BY THE SITE ENGINEER. SEDIMENT CONTROL FENCE IS TO BE AS PER THE STANDARDS ON THIS FILTEREXX SILTSOXX OR APPROVED EQUIVALENT TO BE INSTALLED DOWNSTREAM FROM OUTLET AND WITHIN DITCHES TO A MINIMUM HEIGH OF 300mm. 12. AN APPROVED SPILLS MANAGEMENT PLAN IS TO BE KEPT ON SITE. 13. SPILL CLEANUP EQUIPEMENT SUCH AS ABSORPTIVE MEDIA IS TO BE MAINTAINED ON SITE FOR IMMEDIATE USE IN 14. SPILLS ARE TO BE REPORTED IMMEDIATELY TO THE MECP SPILLS ACTION CENTRE AT 1-800-268-6060. 15. THE CONNTRACTOR WILL BE RESPONSIBLE FOR CLEAN—UP AND RESTORATION, INCLUDING ALL COST, DUE TO THE RELEASE OF SEDIMENT FROM THE SITE. 16. LOW IMPACT DEVELOPMENT (LID) MEASURES ARE NOT TO BE USED AS SEDIMENT CONTROL DEVICES. 7. ADDITIONAL SEDIMENT CONTROL DEVICES MAY BE DEEMED NECESSARY AND AS SITE CONDITIONS CHANGE AND SHALL BE INSTALLED AS DIRECTED BY THE SITE ENGINEER, CONTRACT ADMINISTRATOR OR LOCAL MUNICIPALITY.

SEDIMENT BASIN DECOMMISSIONING

PROVIDE SPLASH PAD AT BOTTOM OF VEGETATED AREA FOR PUMP DISCHARGE LOCATION. . CREATE STABLE INTAKE (TO AVOID PUMPING SEDIMENT). LOCATE INTAKE AS FAR FROM ACCUMULATED SEDIMENT AS POSSIBLE AND USE PERFORATED STANDPIPE TO HOUSE THE PUMP INTAKE. SURROUND PERFORATED STANDPIPE WITH FILTER FABRIC AND CLEAR STONE. PUMP INTAKE SHOULD BE FITTED WITH FILTER. . PUMP SLOWLY TO ENSURE THAT NO SEDIMENT IS ESCAPING TO THE WATERCOURSE;

I. MONITOR INTAKE REGULARLY TO ENSURE THAT PUMP IS PULLING WATER AND NOT SEDIMENT; 5. IF SEDIMENT IS OBSERVED TO BE REACHING THE WATERCOURSE, SHUT DOWN PIPES IMMEDIATELY AND CALL DESIGN CONTINUE TO PUMP UNTIL POND LEVELS ARE SUFFICIENTLY LOW TO ALLOW FOR SEDIMENT REMOVAL. ONCE SEDIMENT HAS BEEN EXPOSED AND ALLOWED TO BEGIN DRYING, IT NEEDS TO BE TESTED TO DETERMINE DISPOSAL 8. A QUALIFIED PERSON(S) (QP) WILL NEED TO SAMPLE THE SEDIMENT AND SUBMIT IT TO AN ACCREDITED LAB FOR CHEMICAL ANALYSIS WHILE MAINTAINING THE CHAIN OF CUSTODY; ONCE THE SEDIMENT HAS BEEN CHARACTERIZED, SEDIMENT REMOVAL MAY BEGIN; 10. SEDIMENT MAY BE REMOVED USING AN EXCAVATOR OR A HEAVY DUTY VACUUM TRUCK. REMOVAL SHOULD CONTINUE UNTIL NATIVE MATERIAL IS ENCOUNTERED AND CONFIRMED BY A GEOTECHNICAL CONSULTANT;

MITIGATION MEASURES

1. WATER TRUCKS WILL BE USED TO SPRAY DOWN EXPOSED SOIL TO CONTROL DUST. THE SCHEDULE FOR THE WATER TRUCKS WILL BE WEATHER DEPENDENT. ON DAYS THAT ARE VERY DRY, THE WATER TRUCK WILL BE ON SITE EVERY MORNING, AND IF NEEDED THE TRUCK WILL COME BACK IN THE AFTERNOON. TYPICAL DRY MONTHS ARE JUNE, JULY AND AUGUST. 2.STOCKPILES WILL NOT BE LOCATED WITHIN 200 M OF RESIDENTIAL HOMES OR RIGHT-OF-WAYS (TORBRAM, AIRPORT & 3.RICE GROUP WILL ORGANIZE TO HAVE THE WINDOWS OF ABUTTING RESIDENTIAL HOUSES CLEANED TWICE A YEAR. 4.ALL WORK WILL BE COMPLETED WITHIN THE ACCEPTABLE HOURS AS DESCRIBED IN THE TOWN'S NOISE BY-LAW 86-110.

5.TO MINIMIZE DISTURBANCE, A WORK BUFFER OF 50 M WILL BE MAINTAINED AROUND RESIDENTIAL PROPERTIES UNTIL MASS GRADING OF THE BLOCK HAS BEEN COMPLETED. IN ADDITION, WORK WILL ONLY BE COMPLETED DURING THE HOURS OF 8AM

- 6PM WITHIN 200 M OF THE RESIDENTIAL PROPERTIES. A SCREENING FENCE WILL BE INSTALLED AND MAINTAINED

SURROUNDING THE RESIDENTIAL PROPERTIES. THE SCREENING FENCE WILL BE COMPRISED OF A 1.8 M HIGH CHAIN LINK COVERED WITH A PRIVACY SCREEN. 6.REFUELING OF CONSTRUCTION VEHICLES WILL BE VIA A PUMPER TRUCK WHICH WILL BE BY DAILY DELIVERY SERVICE. REFUELING ACTIVITIES WILL NOT TAKE PLACE WITHIN 1 KM OF RESIDENTIAL HOUSES. 7.TRAILERS AND ENCAMPMENT FOR THE OWNER AND WORKERS WILL BE LOCATED NEAR MAYFIELD AWAY FROM EXISTING

Species	Description	Application rate and Additional Instructions
Annual Rye - Lolium Multiflorum	Annual species. Suitable for a wide range of site	Control may be required for spring/summer plantings (e.g. mowing, etc.) to
	and soil types. Oats are suitable for a wide range	prevent cover cropfrom impeding native seed mix and to deter seed
	of sites, including both moist and dry sites. Some	production. Oats can be mowed in October before they set seed to reduce
	allelopathy effects are known to occur; however,	competition. Can reduce seeding ratio to limit mowing needs. Winterkill is
	the effects are anticipated to only last a few	adequate control for fall plantings.
	weeks after death. Seed March to October	

Toronto and Region Conservation Authority - Seed Mix Guideline (V.2.0 January 2022) Appendix B: Seed Mix Examples Table 1 - Recommended species to be used as nurse and/or cover crops

L-Rank	Scientific Name	Common Name	%
L3	Panicum virigatum	Switch grass	15.0%
L2	Sorghastrum nutans	Indian grass	15.0%
L3	Andropogon gerardii	Big bluestem	15.0%
L4	Elymus riparius	Riverbank rye	3.0%
L5	Elymus virginicus	Virginia wild rye	7.0%
L4	Elymus canadensis	Canada wild rye	11.0%
L2	Elymus trachycaulus	Slender wheat grass	2.0%
L2	Elymus villosus	Silky Wild Rye*	2.0%
L5	Oenothera biennis	Evening primrose	2.0%
L2	Heliopsis helianthoides	Oxeye	2.0%
L4	Rudbeckia hirta	Black eyed Susan	5.0%
L2	Schizachyrium scoparium	Little bluestem	10.0%
L5	Asclepias syriaca	Common milkweed	5.0%
L3	Penstemon digitalis	Foxglove beardtongue	2.0%
L3	Pycnanthemum virginianum	Virginia mountain mint*	2.0%
L5	Monarda fistulosa	Wild bergamont	2.0%
		Total	100.0%
* If supply	issues arise, please replace these specie	es with reasonable substitute from Appendix	C.

SWALE TYPE A SLOPE = 0.30% $BOTTOM\ WIDTH = 1.0m$ 3:1 SIDE SLOPES TO MATCH EXISTING GROUND (MIN. HEIGHT = 0.57m)

OF 0.20m TO BE PLACED EVERY 65m SWALE TYPE B SLOPE = 0.70% BOTTOM WIDTH = 1.0 m

3:1 SIDE SLOPES TO MATCH EXISTING

OF 0.20m TO BE PLACED EVERY 28m

CHECK DAMS (SILTSOXX) WITH MIN HEIGHT

GROUND (MIN. HEIGHT = 0.49m)

CHECK DAMS (SILTSOXX) WITH MIN HEIGHT

|SLOPE| = 1.50%BOTTOM WIDTH = 1.0m3:1 SIDE SLOPES TO MATCH EXISTING GROUND (MIN. HEIGHT = 0.51m) CHECK DAMS (SILTSOXX) WITH MIN HEIGHT

OF 0.30m TO BE PLACED EVERY 20m

3:1 SIDE SLOPES TO MATCH EXISTING

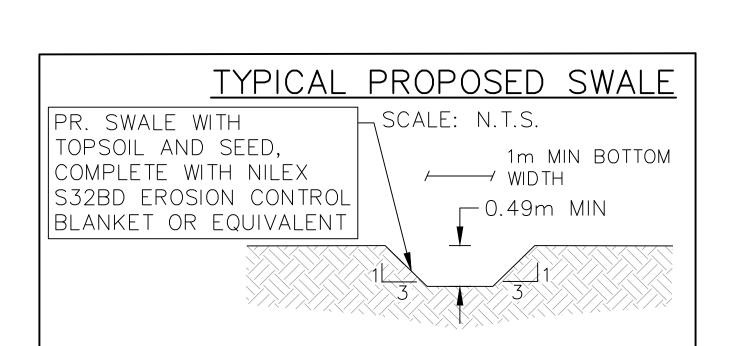
OF 0.30m TO BE PLACED EVERY 27m

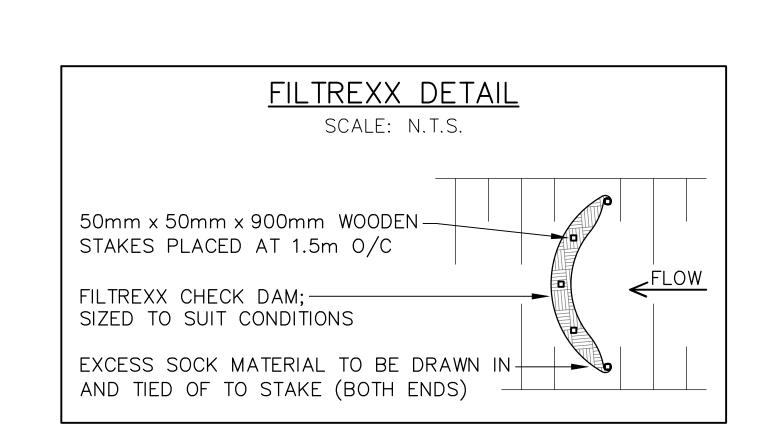
CHECK DAMS (SILTSOXX) WITH MIN HEIGHT

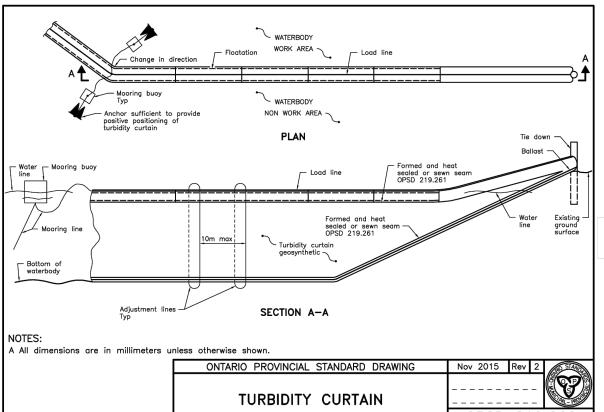
GROUND (MIN. HEIGHT = 0.53m)

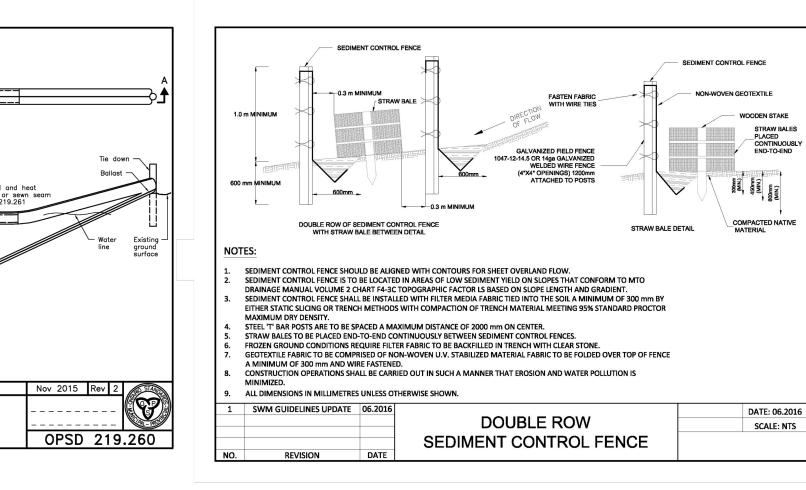
SWALE TYPE C SLOPE = 1.10%

BOTTOM WIDTH = 1.0m

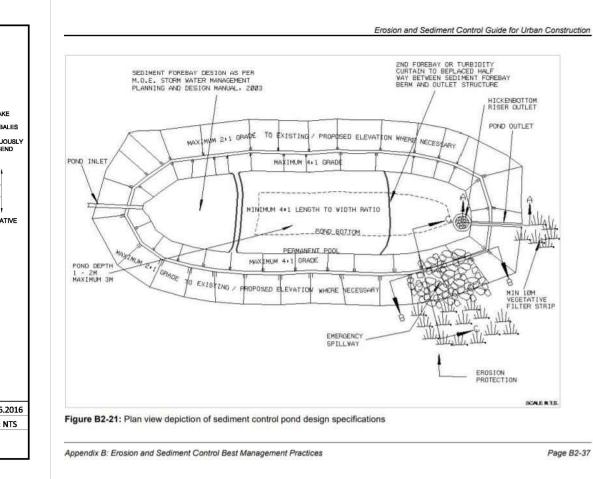






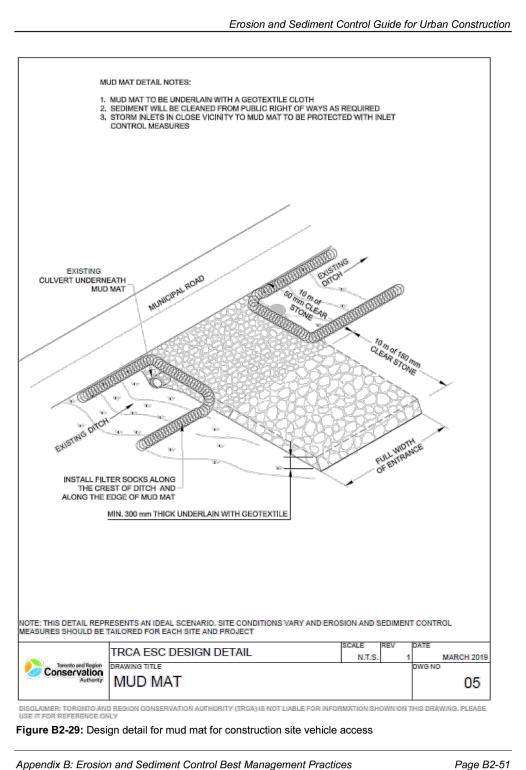


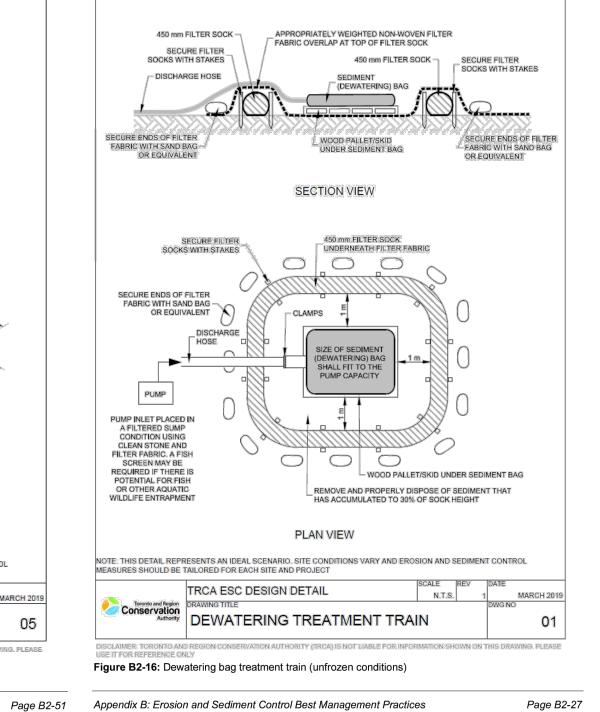
Erosion and Sediment Control Guide for Urban Construction

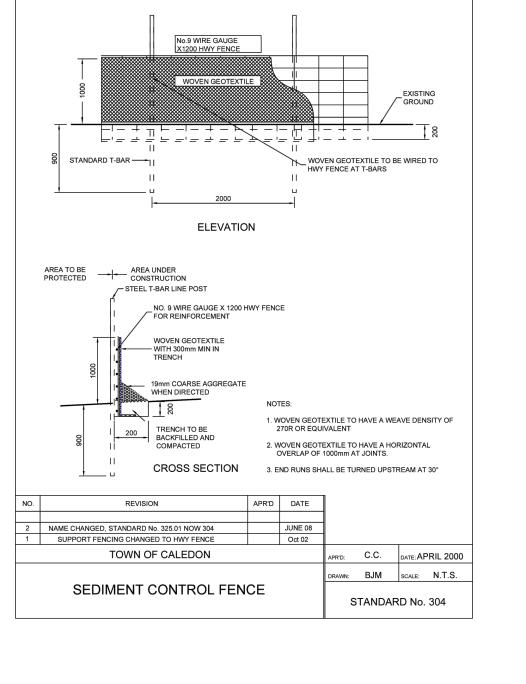


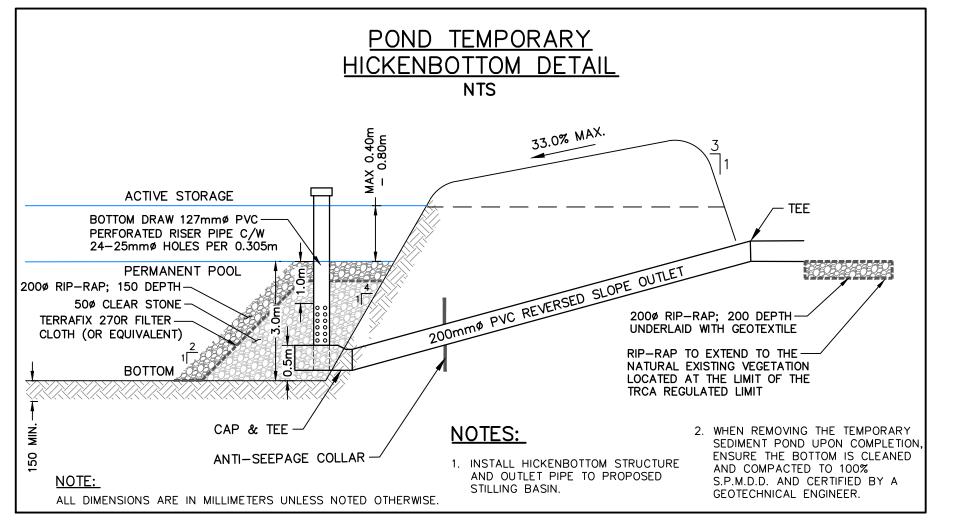


TOWN OF CALEDON **PLANNING** RECEIVED October 31, 2023









HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 1									
	ELEVATION	ELEVATION AREA (m²) DEPTH (m) STORAGE STORAGE							
	(m)	ARLA (III)	DEPTH (m)	REQUIRED (m³)	PROVIDED (m³)	(m)			
TOP OF BERM	245.00	2079	0.30	-	591	-			
ACTIVE STORAGE	244.70	1866	0.80	1246	1280	-			
PERMANENT POOL	243.90	1354	3.00	1844	1845	-			
воттом	240.90	164	-	-	-	•			
FOREBAY	243.90	150	1.00	-	68	•			
EMERGENCY WEIR	-	-	0.30	-	-	9.00			

	EL EL (A TIO A I		HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 5					
	ELEVATION	AREA (m²)	DEPTH (m)	STORAGE	STORAGE	LENGTH		
	(m)	AREA (III)	DEF III (III)	REQUIRED (m³)	PROVIDED (m³)	(m)		
TOP OF BERM	236.45	1082	0.30	-	301	-		
ACTIVE STORAGE	236.15	930	0.50	396	406	-		
PERMANENT POOL	235.65	702	3.00	586	631	-		
BOTTOM	232.65	6	-	-	-	-		
FOREBAY	235.65	78	1.00	-	23	-		
EMERGENCY WEIR	-	-	0.30	-	-	3.00		

HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 9										
	ELEVATION	ADEA (m²)	DEDTH (m)	STORAGE	STORAGE	LENGTH				
	(m)	AREA (m²) DEPTH (m)		REQUIRED (m³)	PROVIDED (m³)	(m)				
TOP OF BERM	243.90	1954	0.30	-	555	-				
ACTIVE STORAGE	243.60	1747	0.60	913	931	•				
PERMANENT POOL	243.00	1369	3.00	1351	1875	ı				
воттом	239.65	182	-	-	-	-				
FOREBAY	243.00	152	1.00	-	69	•				
EMERGENCY WEIR	-	-	0.30	-	-	7.00				

HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 2							
	ELEVATION	AREA (m²)	DEPTH (m)	STORAGE	STORAGE	LENGTH	
	(m)	AREA (III)	DEPTH (III)	REQUIRED (m³)	PROVIDED (m³)	(m)	
TOP OF BERM	242.20	1918	0.30	-	544	-	
ACTIVE STORAGE	241.90	1714	0.80	1069	1167	-	
PERMANENT POOL	241.10	1225	3.00	1582	1587	-	
воттом	238.10	121	-	-	-	-	
FOREBAY	241.10	136	1.00	-	59	-	
EMERGENCY WEIR	-	-	0.30	-	-	7.50	

	HICKENBO	OTTOM AND	SEDIMENT B	ASIN DETAIL - PON	ID 6	
	ELEVATION	AREA (m²)	DEPTH (m)	STORAGE	STORAGE	LENGT
	(m)	AREA (III)	DEP III (III)	REQUIRED (m³)	PROVIDED (m³)	(m)
TOP OF BERM	233.50	1414	0.30	-	397	-
ACTIVE STORAGE	233.20	1239	0.65	646	691	-
PERMANENT POOL	232.55	900	3.00	956	972	-
воттом	229.55	36	-	-	-	-
FOREBAY	232.55	100	1.00	-	36	-
EMEDCENICY WEID			0.20			E 00

HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 10							
	ELEVATION AREA (ADEA /m2\	DEDTIL/m\	STORAGE	STORAGE	LENGTH	
	(m)	AREA (m²)	DEPTH (m)	REQUIRED (m³)	PROVIDED (m³)	(m)	
TOP OF BERM	240.30	2247	0.30	-	640	-	
ACTIVE STORAGE	240.00	2025	0.70	1178	1247	-	
PERMANENT POOL	239.30	1552	3.00	1743	2252	-	
воттом	236.30	237	-	-	-	-	
FOREBAY	239.30	172	1.00	-	83	-	
EMERGENCY WEIR	=	-	-	=	=	8.00	

	HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 3							
	ELEVATION	AREA (m²)	DEPTH (m)	STORAGE	STORAGE	LENGTH		
	(m)	ANEA (III)	DEPTH (III)	REQUIRED (m³)	PROVIDED (m³)	(m)		
TOP OF BERM	243.70	1282	0.30	-	359	-		
ACTIVE STORAGE	243.40	1116	0.40	398	404	-		
PERMANENT POOL	243.00	912	3.00	588	994	1		
BOTTOM	240.00	38	-	-	-	•		
FOREBAY	243.00	101	1.00	-	37			
EMERGENCY WEIR	-	-	0.30	-	-	3.00		

	HICKENBO	DTTOM AND	SEDIMENT B	ASIN DETAIL - PON	ID 7	
	ELEVATION	AREA (m²)	DEPTH (m)	STORAGE	STORAGE	LENGT
	(m)	AREA (III)	DEPTH (III)	REQUIRED (m³)	PROVIDED (m³)	(m)
TOP OF BERM	243.35	2025	0.30	-	576	-
ACTIVE STORAGE	243.05	1815	0.70	1066	1109	-
PERMANENT POOL	242.35	1369	3.00	1578	1875	-
воттом	239.65	182	-	-	-	-
FOREBAY	242.35	152	1.00	-	69	ı
EMERGENCY WEIR	-	-	0.30	-	-	7.50

TOP OF BERM

ACTIVE STORAGE

PERMANENT POOI воттом

FOREBAY

EMERGENCY WEIR

HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 11									
	ELEVATION	AREA (m²)	DEPTH (m)	STORAGE	STORAGE	LENGTH			
	(m)	ANEA (III)	DEPTH (III)	REQUIRED (m³)	PROVIDED (m³)	(m)			
TOP OF BERM	240.65	2323	0.30	-	663	-			
ACTIVE STORAGE	240.35	2098	0.60	1126	1130	-			
PERMANENT POOL	239.75	1681	3.00	1667	2523	-			
воттом	237.54	190	-	-	-	-			
FOREBAY	239.75	187	1.00	-	93	-			
EMERGENCY WEIR	-	-	0.30	-	-	8.00			

HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 4									
	ELEVATION	ADEA (m²)	DEDTH (m)	STORAGE	STORAGE	LENGTH			
	(m)	AREA (m²) DEPTH (m)		REQUIRED (m³)	PROVIDED (m³)	(m)			
TOP OF BERM	236.10	2237	0.30	-	638	i			
ACTIVE STORAGE	235.80	2016	0.80	1198	1391	-			
PERMANENT POOL	235.00	1482	3.00	1772	2107	i			
BOTTOM	233.10	210	-	-	=	•			
FOREBAY	235.00	165	1.00	-	165	•			
	The state of the s								

HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 8									
ELEVATION	AREA (m²)	DEPTH (m)	STORAGE	STORAGE	LENGTH				
(m)	AREA (III)		REQUIRED (m³)	PROVIDED (m³)	(m)				
243.95	2052	0.30	-	583	1				
243.65	1840	0.80	1189	1261	1				
242.85	1332	3.00	1759	1801	-				
236.30	237	-	-	-	-				
242.85	148	1.00	-	67	-				
			·		0.00				

HICKENBOTTOM AND SEDIMENT BASIN DETAIL - POND 12								
	ELEVATION	AREA (m²)	DEDTH (m)	STORAGE	STORAGE	LENGTH		
	(m)	AREA (III-)	DEPTH (m)	REQUIRED (m³)	PROVIDED (m³)	(m)		
TOP OF BERM	238.50	2116	0.30	-	602	-		
ACTIVE STORAGE	238.20	1901	0.70	1134	1165	-		
PERMANENT POOL	237.50	1444	3.00	1678	2028	-		
воттом	235.00	240	-	-	-	-		
FOREBAY	237.50	160	1.00	-	75	-		
EMERGENCY WEIR	-	-	0.30	-	-	8.00		

	LOCUED TO TOWN		2027 (20
1	ISSUED TO TOWN ISSUED TO TRCA	2023/OC 2023/JUI	
No.	ISSUE / REVISION	YYYY/MM	

BEARING NOTE:

BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (1997.0) **ELEVATION NOTE:** ELEVATIONS HERON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK AND REFERED TO THE CGVD-1928:

SITE BENCHMARK: A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTHEAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD

DESIGN ELEMENTS ARE BASED ON SITE PLAN BY WESTON CONSULTING INC. PROJECT No.: TBD

DRAWING NOTES: THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART OF IT WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AN REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

> TULLAMORE LANDS TOWN OF CALEDON

TOPSOIL STRIPPING CONSTRUCTION NOTES AND DETAILS

