

CONSTRUCTION PHASING SCHEDULE

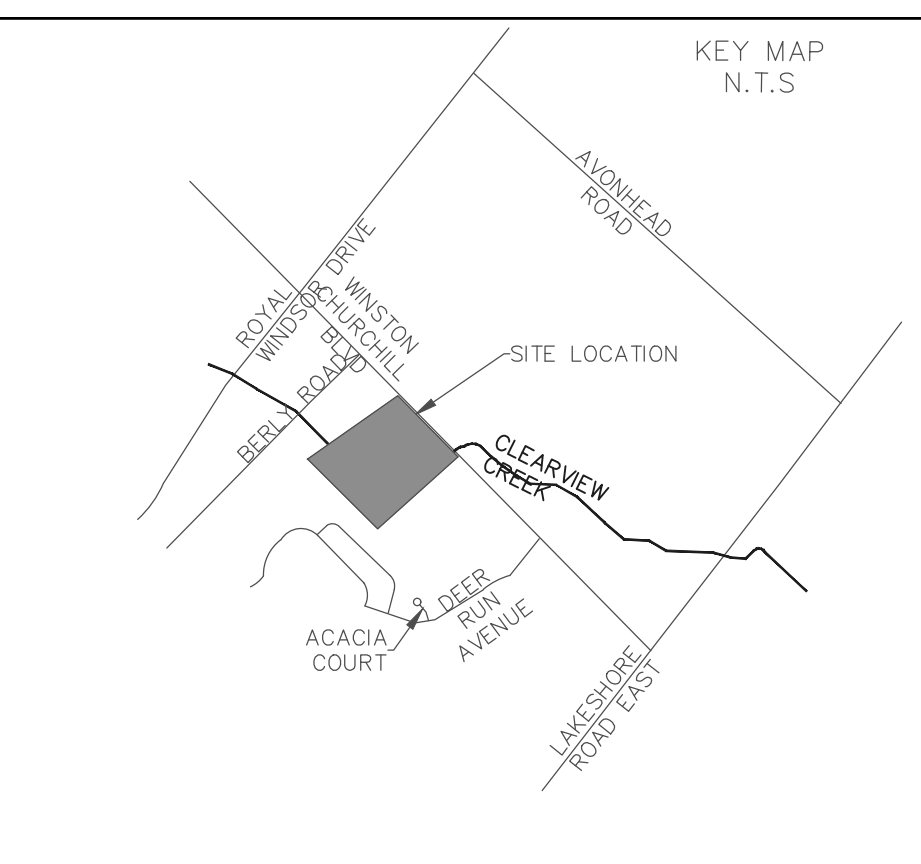
- PHASE 1 - "CUT & FILL" WORKS :**
- STAGE 1: SEDIMENT AND EROSION CONTROL WORKS**
1. INSTALL CONSTRUCTION ACCESS/STONE MUD MAT AT WINSTON CHURCHILL BOULEVARD AS SHOWN ON PLAN ESC-1.
 2. INSTALL PERIMETER SILT FENCES AS SHOWN ON PLAN ESC-1.
 3. INSTALL THE TEMPORARY EROSION AND SEDIMENT POND AS PER DETAIL ON PLAN ESC-1.
- STAGE 2: EARTHWORKS**
4. COMPLETE SITE CLEARING (CLEARING AND GRUBBING), TREE REMOVALS WITHIN THE OCTOBER 1ST TO MARCH 30TH TIMING WINDOW.
 5. STRIP TOPSOIL AND STOCKPILE.
 6. COMPLETE "CUT & FILL" WORKS.
 7. CONSTRUCT THE TEMPORARY INTERCEPTOR SWALES AND SWM OUTLET TO DITCH ON WINSTON CHURCHILL BOULEVARD.
 8. STABILIZE AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE IMMEDIATELY AS WORK PROGRESSES.

SEDIMENT AND EROSION CONTROL GENERAL NOTES:

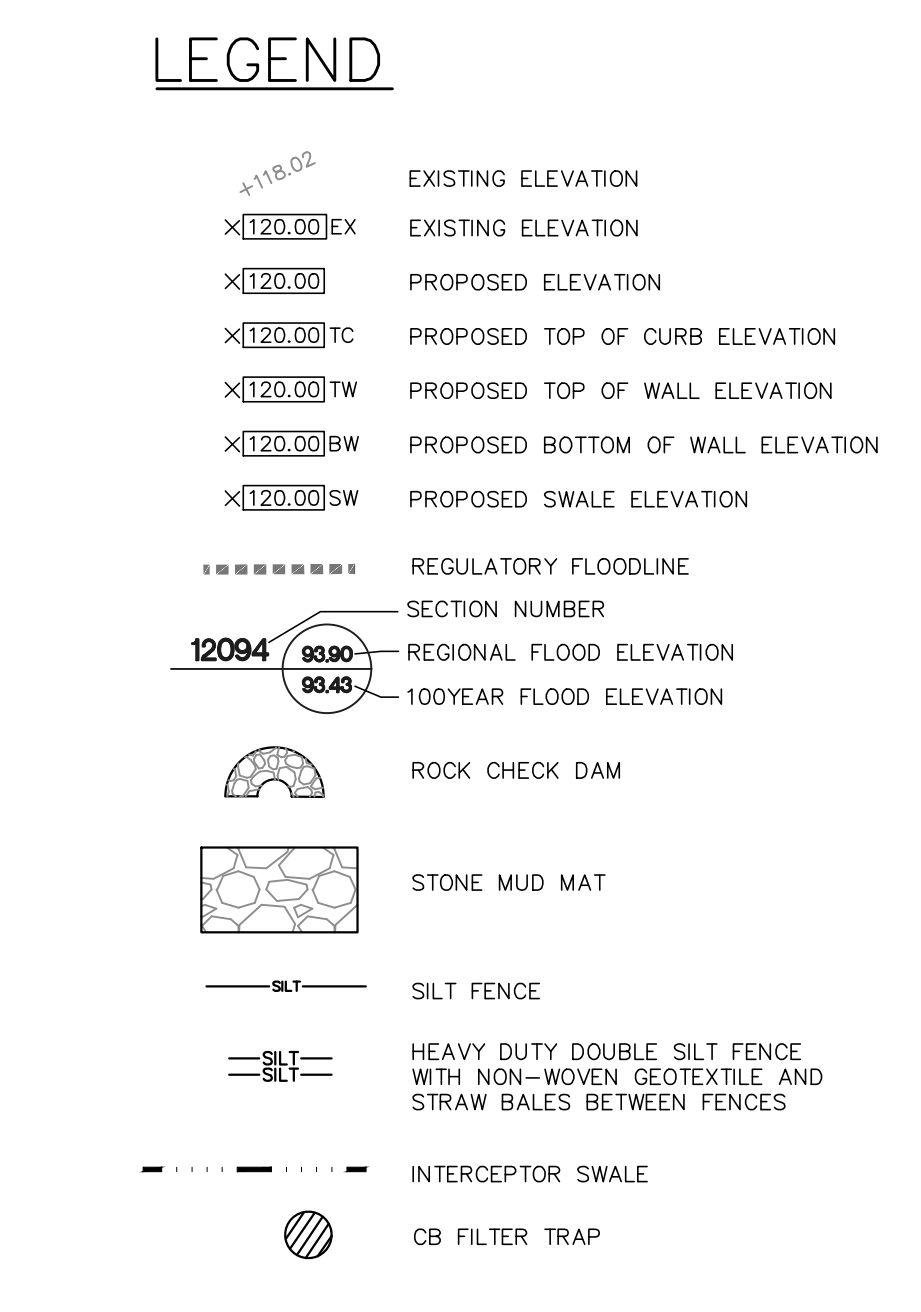
1. CONTRACTOR/OWNER TO COMPLY WITH SEDIMENT AND EROSION CONTROL BY-LAW #46-2019
2. CONTRACTOR/OWNER TO COMPLY WITH MUD TRACKING BY-LAW #69-2002.
3. BEFORE PROCEEDING ANY AREA GRADING THE FOLLOWING MUST BE CONSTRUCTED:
 - A. MUD MAT WHERE INDICATED.
 - B. TEMPORARY SWALES WITH ROCK FLOW CHECK DAMS.
 - C. SILT FENCE WHERE INDICATED.
 - D. TREE PRESERVATION
 - E. TEMPORARY POND AS SHOWN ON DRAWING, WITH TURBIDITY CURTAIN.
 - F. SILT TRAPS
4. SILT CONTROL FENCE SHOULD BE INSTALLED AROUND PERIMETER OFFSET 0.60m INSIDE THE PROPERTY OF THE SITE AND MAINTAINED UNTIL THE COMPLETION OF LANDSCAPING.
5. CATCHBASIN SILT TRAPS ARE TO BE INSTALLED AT ALL CATCHBASINS AND CATCHBASIN MANHOLE LOCATIONS UPON COMPLETION OF THE LANDSCAPING.
6. ACCUMULATED SILT TO BE REMOVED OFF SITE PRIOR TO REMOVAL OF THE SILT CONTROL FENCE.
7. CONTRACTOR TO INSTALL AND MAINTAIN MUD MAT AT CONSTRUCTION ACCESS IN ORDER TO PREVENT MUD TRACKING ONTO ADJACENT ROADS. MUD MAT TO BE A MINIMUM 20.0m LONG AND 3.0m WIDE AND SHALL CONSIST OF 100mm CLEAR STONE AND 400 mm DEEP.
8. CONTRACTOR TO CLEAN ADJACENT ROADS ON A REGULAR BASIS TO THE SATISFACTION OF THE TOWN OF OAKVILLE OR HALTON REGION, WHICHEVER IS APPLICABLE. THE ROAD SHALL BE SCARPED AND FLUSHED DAILY AS REQUIRED OR AS DIRECTED BY THE TOWN OR REGION.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED WEEKLY AND IMMEDIATELY AFTER RAINFALL EVENTS FOR RIPS AND TEARS, BROKEN STAKES, BLOW OUTS (STRUCTURAL FAILURE) AND ACCUMULATION OF SEDIMENT. THE SILT FENCE MUST BE FIXED AND/OR REPLACED IMMEDIATELY WHEN DAMAGED. SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
10. THE OWNER WILL SEED, MULCH AND MAINTAIN THE ENTIRE SITE IF A BUILDING PERMIT IS NOT ISSUED.
11. THE OWNER SHALL IMMEDIATELY SEED, MULCH AND STABILIZE AREAS THAT HAVE BEEN DISTURBED AND OUR OTHERWISE UNFINISHED.
12. UPON COMPLETION OF LANDSCAPING ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED.
13. NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL BE BEYOND THE SILT FENCE.
14. ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH A SEDIMENT CONTROL FENCE.
15. WASHING-WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADS. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

- CVC ESC - Monitoring Notes**
1. The erosion control plan shall be submitted to the Environmental Services Department, City of Oakville, for review and approval. The plan shall be approved by the City Engineer or his/her designee. The plan shall be approved by the City Engineer or his/her designee. The plan shall be approved by the City Engineer or his/her designee.
 2. Following installation of the proposed ESC measures, a certified agent of the contractor shall conduct a visual inspection of the ESC measures. The inspection shall be conducted at a minimum of 30 metres from the vegetation/landscaping.
 3. All construction activities, including maintenance procedures, will be conducted in a manner that ensures the stability of the ESC measures. The contractor shall ensure that the ESC measures are maintained in a manner that ensures the stability of the ESC measures.
 4. The contractor shall ensure that the ESC measures are maintained in a manner that ensures the stability of the ESC measures.
 5. Please refer to ESC Schedule for Urban Construction (December 2008) for the design and design dimension of ESC measures.
 6. ESC measures will be implemented prior to, and maintained during the construction phase to prevent any of sediment into the surrounding ESC measures. ESC measures shall be implemented on a weekly basis. Any storm event: any repairs required are to be notified immediately.
 7. The contractor shall ensure that the ESC measures are maintained in a manner that ensures the stability of the ESC measures.
 8. ESC measures will be implemented prior to, and maintained during the construction phase to prevent any of sediment into the surrounding ESC measures. ESC measures shall be implemented on a weekly basis. Any storm event: any repairs required are to be notified immediately.
 9. The contractor shall ensure that the ESC measures are maintained in a manner that ensures the stability of the ESC measures.
 10. ESC measures will be implemented prior to, and maintained during the construction phase to prevent any of sediment into the surrounding ESC measures. ESC measures shall be implemented on a weekly basis. Any storm event: any repairs required are to be notified immediately.
 11. Any sediment spill from the site should be reported to Ministry of Environment (416-809-0900) at 1-800-268-0808.
 12. If necessary, additional reports from the construction activities, the waste management plan, or other reports shall be submitted to the City Engineer or his/her designee.
 13. The contractor shall ensure that the ESC measures are maintained in a manner that ensures the stability of the ESC measures.
 14. The contractor shall ensure that the ESC measures are maintained in a manner that ensures the stability of the ESC measures.
 15. The contractor shall ensure that the ESC measures are maintained in a manner that ensures the stability of the ESC measures.
 16. An after-hours contact number is to be visibly posted on-site for the entire duration of the project. The contractor shall ensure that the ESC measures are maintained in a manner that ensures the stability of the ESC measures.

- ESC STAGING NOTES**
- STAGE 1 - PRIOR TO INSTALLATION OF BELOW-GROUND WORKS**
1. INSTALL ALL SILT FENCE ALONG TOP OF BANK OF INTERIOR AND SITE EXTERIOR AS SHOWN ON PLAN ESC-1. SILT FENCE TO BE MAINTAINED DAILY.
 2. CONSTRUCTION MUD MATS TO BE PLACED AT NORTH SITE ENTRANCE, AS PER PLAN ESC-1 AND PER DETAIL.
 3. COMPLETE SITE CLEARING AND GRUBBING. ALL TREE PRESERVATION MEASURES TO BE COMPLETED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE STABILIZATION OF BLENDED AREAS TO BE COMPLETED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 4. TEMPORARY ESC BASIN AND INTERCEPTOR SWALES TO BE CONSTRUCTED TO THE LOCATION AND DIMENSIONS SHOWN ON PLAN ESC-1. SWALES TO BE VISIBLY POSTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
 5. FILL BROUGHT ON SITE TO BE PLACED AND COMPACTED IMMEDIATELY. STOCK PILES OF MATERIAL NOT TO BE PERMITTED.
- STAGE 2 - INSTALLATION OF SITE SERVICES**
6. INSTALL BELOW-GROUND SERVICES CATCHBASINS TO BE EQUIPPED WITH TURBIDITY CURTAIN CONTROL DEVICE AS PER REGION OF HALTON STD. NO. 200-040.
 7. BELOW-GROUND STORMWATER STORAGE CHAMBERS TO BE CONSTRUCTED AND INSTALLED TO THE LOCATION AND DIMENSIONS SHOWN ON PLAN ESC-1. STORAGE CHAMBERS TO BE PROTECTED FROM COLLAPSE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
 8. BELOW-GROUND STORMWATER STORAGE CHAMBERS TO BE CONSTRUCTED AND INSTALLED TO THE LOCATION AND DIMENSIONS SHOWN ON PLAN ESC-1. STORAGE CHAMBERS TO BE PROTECTED FROM COLLAPSE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
 9. COMPLETE BELOW-GROUND SERVICES INSTALLATION. SITE ELEVATIONS TO BE BROUGHT TO FINAL GRADE. BELOW-GROUND SERVICES TO BE COMPLETED.
 10. FINAL GRADING, ASPHALT AND SITE STABILIZATION TO BE COMPLETED.
 11. UPON COMPLETION OF ALL ON-SITE CONSTRUCTION, ESC MEASURES MAY BE REMOVED.



REFER TO PLAN C-1 FOR CONSTRUCTION DETAILS AND SECTIONS.



100 YEAR AND REGIONAL FLOODLINE INFORMATION TAKEN FROM CVC FLOOD HAZARD MAP FOR CLEARVIEW CREEK WATERSHED, SHEET 3

PROFESSIONAL ENGINEER
A. M. CANDARAS
M.O.E. OF ONTARIO

4	DEC 14/22	RPA	FOURTH SUBMISSION
3	DEC 19/22	FP	THIRD SUBMISSION
2	DEC 15/22	FP	SECOND SUBMISSION
1	APR 9/22	FP	FIRST SUBMISSION

No. Date By REVISIONS

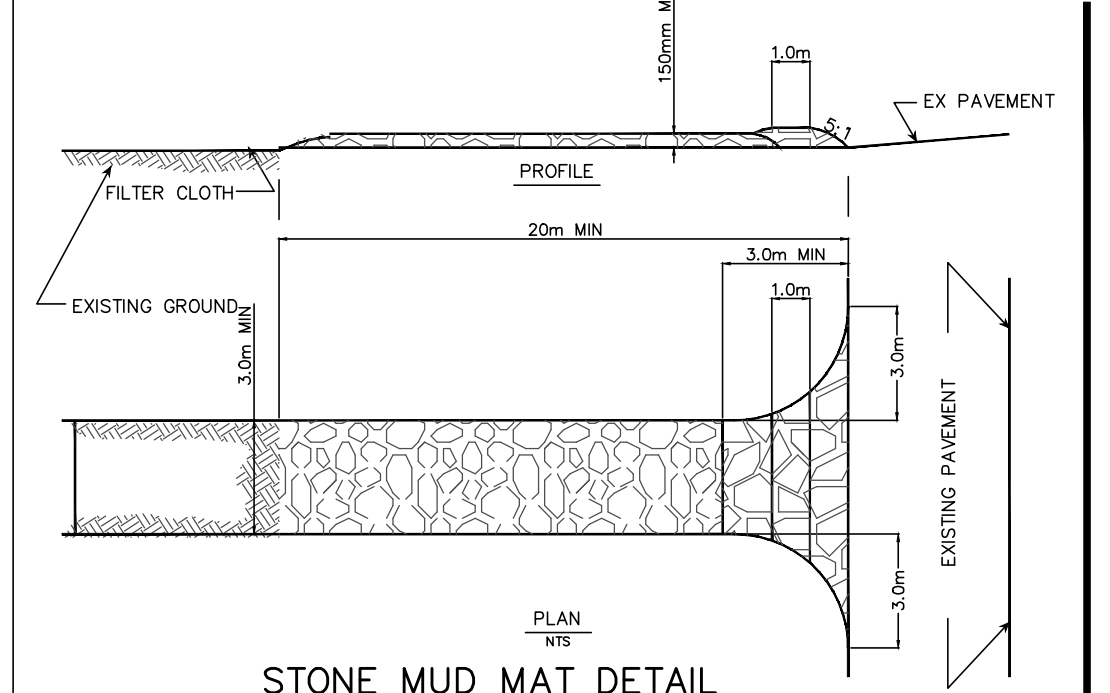
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Woodbridge ont. L4L 9R4
905-850-8000 Fax 905-850-8099
Email: civil@amc.com

772 WINSTON CHURCHILL BLVD.

TOWN OF OAKVILLE REGION OF HALTON

EROSION AND SEDIMENT CONTROL PLAN - STAGE 2

SCALE: 1:750	DATE: MAR 2021	PLAN No. 2060
DRAWN: F.P.	CHK'D: A.M.C.	PROJ. No.
DESIGNED: A.M.C.	SHEET 6 OF 6	ESC-2



STONE MUD MAT DETAIL

STONE SIZE - USE 50mm STONE, OR EQUIVALENT OR RECYCLED CONCRETE EQUIVALENT.

LENGTH - AS REQUIRED, BUT NOT LESS THAN 10m (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 10m MIN. LENGTH WOULD APPLY).

THICKNESS - NOT LESS THAN 100mm.

WIDTH - 300mm MINIMUM, BUT NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

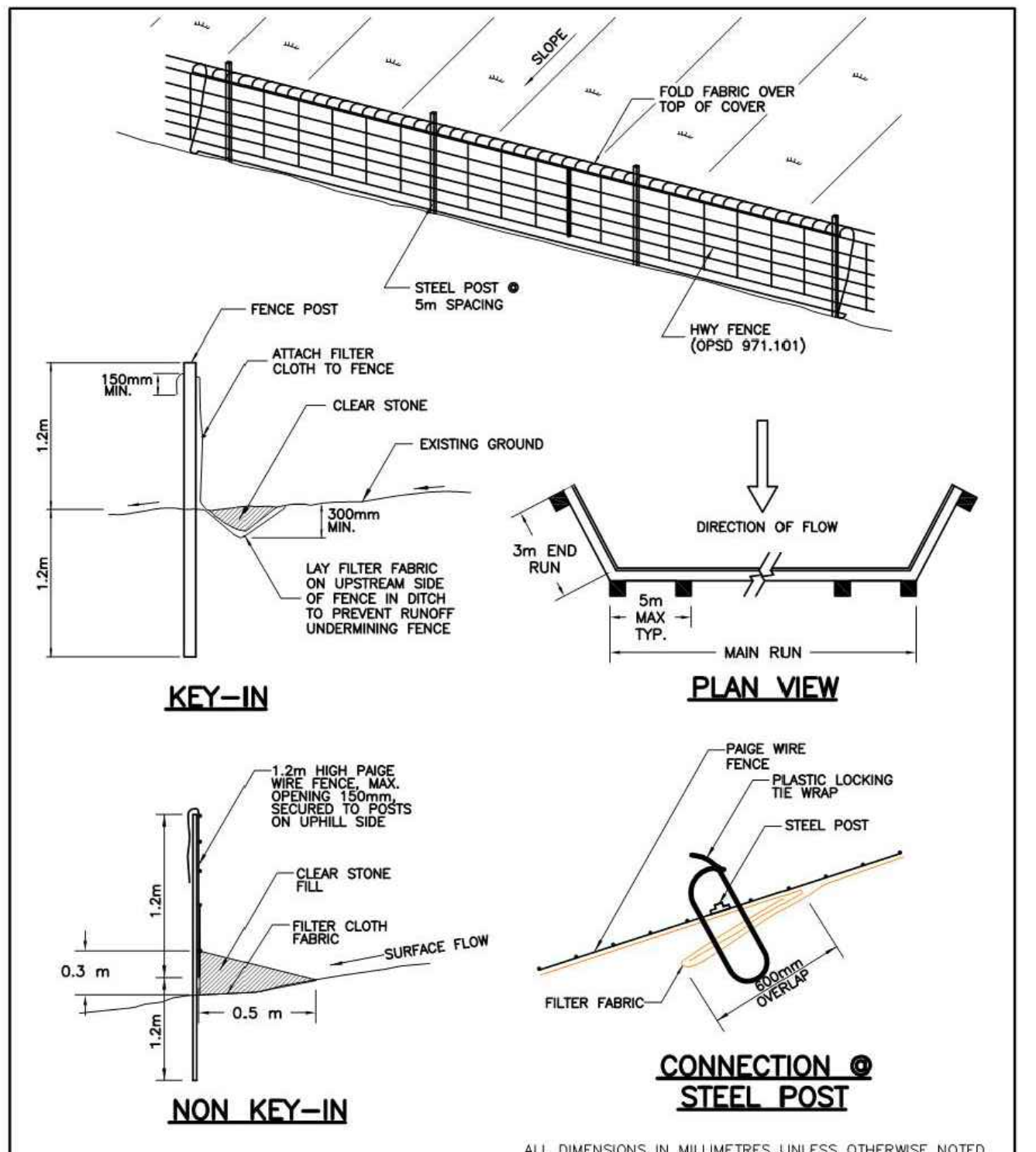
FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. FILTER CLOTH WILL BE REQUIRED ON SINGLE FAMILY RESIDENCE LOT.

SURFACE WATER - ALL SURFACE WATER FLOWING OR DIRECTED TOWARD CONSTRUCTION ENTRANCES SHALL BE STOPPED ACROSS THE ENTRANCE OF IMPACTED AREAS BY A MOUNTABLE BERM WITH 5:1 SLOPES. THIS BERM SHALL BE PERMITTED.

MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DISPOSED, MENDED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



HEAVY DUTY SILT FENCE BARRIER

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED

Date: January 2014 Rev: 0 NTS

REGION STANDARD RH 200-040

- STABILIZATION NOTES:**
- PROVIDE TEMPORARY STABILIZATION FOR AREAS THAT ARE BEING DISTURBED
 - ALL ESC POND SLOPES AND INTERCEPTOR SWALES TO BE EFFECTIVELY STABILIZED WITH VEGETATION PRIOR TO RECEIVING ANY WATER FLOWS TO PREVENT SOIL EROSION. TEMP SEEDING TO CONSIST OF ANNUAL RYE GRASS, 25 kg/ha. ALTERNATE MEASURE TO BE PROVIDED OUTSIDE OF GROWING SEASON, SUCH AS EROSION CONTROL BLANKETS.
 - SITE TO BE STABILIZED BEFORE RECEIVING FLOWS
 - MECHANICAL SEEDING TO BE APPLIED TO VEGETATE ANY DISTURBED SURFACE THAT IS TO BE LEFT EXPOSED FOR IMMEDIATELY AS THE WORK PROGRESSES AND FOR AREAS THAT ARE AT FINAL GRADE.
 - THE LOWER HALF OF THE TOPSOIL PILES SHALL BE IMMEDIATELY STABILIZED USING GROUND COVER VEGETATION WITH A NON-INVASIVE SPECIES, IE: SEEDED COMPOST OR SEEDED BIODEGRADABLE MATS. TEMP SEEDING MIX TO CONSIST OF ANNUAL RYE GRASS 25kg/ha, OR EROSION AND SEDIMENT CONTROL BLANKETS.

- TEMPORARY SEDIMENT BASIN DECOMMISSIONING NOTES:**
- ONCE SITE WORKS HAVE BEEN SUBSTANTIALLY STABILIZED, THE TEMPORARY SEDIMENT BASINS MAY BE DECOMMISSIONED.
 - THE ESC BASIN ARE TO BE PUMPED THROUGH ENVIROBAGS INTO EMPTY ENVIROBAGS TO BE LOCATED A MINIMUM OF 30m FROM ANY CREEK/WETLAND AND IN A WELL VEGETATED AREA.
 - SEDIMENT AND DEBRIS TO BE REMOVED FROM THE BOTTOM OF THE ESC BASINS.
 - ESC BASIN TO BE FILLED TO REQUIRED PRE-GRADE. FILL MATERIAL AND COMPACTION TO BE COMPLETED TO THE SATISFACTION OF GEOTECHNICAL RECOMMENDATIONS.
- ALL IN-WATER AND NEAR WATER WORKS ARE TO BE COMPLETED BETWEEN JULY TO MARCH 31.

EROSION AND SEDIMENT CONTROL - SUPPLEMENTARY NOTES

A. ESC PLAN IS A DYNAMIC DOCUMENT, WHICH MAY BE SUBJECT TO CHANGE OR MODIFICATION AS A RESULT OF SITE DEVELOPMENTS OR CHANGES ON SITE.

B. SEDIMENT LADEN WATERS ARE TO BE TREATED PRIOR TO DISCHARGING INTO THE DITCH.

C. NO PUMPING OF SEDIMENT LADEN RUNOFF FROM TEMPORARY POND(S) TO THE DITCH IS ALLOWED AT ANY TIME.

D. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE EVALUATED BY A QUALIFIED PERSON AS DETERMINED BY THE TOWN AND HALTON CONSERVATION, ON A WEEKLY BASIS AND AFTER ANY STORM EVENT, ANY REPAIRS REQUIRED ARE TO BE RECTIFIED IMMEDIATELY.

E. ADDITIONAL EROSION AND SEDIMENT CONTROL MATERIALS (IE SILT FENCE, STRAW BALES, CLEAR STONES...ETC.) ARE TO BE KEPT ON SITE FOR EMERGENCIES AND REPAIRS.

F. AN AFTER HOURS CONTACT NUMBER IS TO BE VISIBLY POSTED ON-SITE FOR EMERGENCIES.

G. ANY SEDIMENT SPILL FROM THE SITE SHOULD BE REPORTED TO MINISTRY OF ENVIRONMENT (SPILL ACTION CENTER) AT 1-800-268-6060.

H. SHOULD THERE BE CONTINUOUS PUMPING PROPOSED, AN AFTER HOURS TECHNICIAN IS TO BE ASSIGNED TO ENSURE THAT THE TREATMENT SYSTEM (PUMPING EQUIPMENT, DIVERSION, SETTLEMENT PONDS...ETC) IS FUNCTIONING PROPERLY.

