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**TEMPORARY BENCHMARKS**

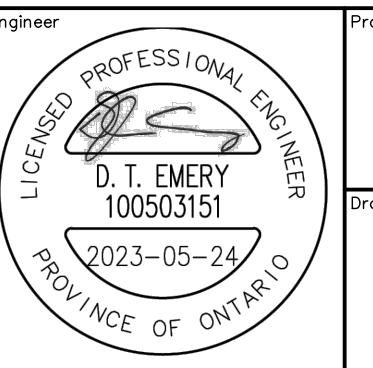
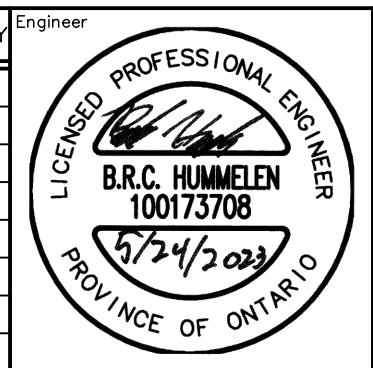
TBM#1 CONCRETE PIN IN ASPHALT, WEST EDGE OF PAVEMENT ON ROWES LANE LOCATED 5m NORTH OF MN.135 ELEVATION 514.870m.

TBM#2 RUSSELL STREET CC ON CONCRETE CURB ELEVATION 520.79m.

TBM#3 FLATO EAST PHASE 2&3 STORMWATER FACILITY CC ON CONCRETE HEADWALL ELEVATION 514.43m.

No.	ISSUE	DATE: MM/DD/YYYY
1.	ISSUED FOR 1st SUBMISSION	11/16/2022
2.	ISSUED FOR 2nd SUBMISSION	03/03/2023
3.	ISSUED FOR 3rd SUBMISSION	05/24/2023

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Project: **FLATO EDGEWOOD GREENS PHASE 9 TOWNSHIP OF SOUTHGATE**

Drawing: **SITE ALTERATION PLAN ZONE 1 & 2**

**CROZIER CONSULTING ENGINEERS**

ADMIRAL BUILDING  
1 FIRST STREET, SUITE 200  
COLLINGWOOD, ON. L9Y 1A1  
705-446-3510 T  
705-446-3520 F  
WWW.CFCROZIER.CA  
INFO@CFCROZIER.CA

Drawn By: RDM/AT    Design By: RDM/DE    Project: **1060-5734**

Check By: BH    Check By: DE    Scale: 1:1500    Drawing: **104A**

**GENERAL NOTES:**

- CONSTRUCTION EQUIPMENT TO USE EXISTING ACCESS POINT, LOCATED AT HWY 10, AS INDICATED ON THIS DRAWING. MUD MAT TO BE MAINTAINED AT ACCESS POINT.
- ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE "CONSTRUCTOR" AS DEFINED IN THE ACT.
- ALL SEDIMENT AND EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO ANY GRADING OPERATIONS COMMENCING. TYPICAL WORKS INCLUDE SILT FENCES, INTERCEPTOR SWALES, STRAW BALE CHECK DAMS AND SEDIMENT TRAPS.
- ALL TEMPORARY TOPSOIL STOCKPILES ARE TO BE PROVIDED WITH THE NECESSARY SEDIMENT AND EROSION CONTROL FEATURES.
- ALL INTERCEPTOR SWALES ARE TO BE SEEDED TO STABILIZE THEIR BANKS IMMEDIATELY FOLLOWING CONSTRUCTION.
- REFER TO APPLICATION FORM FOR GRUBBING OF TREES WITHIN LIMITS OF FILL AREA.
- NO GRADING OF LANDS WILL OCCUR WITHIN SPECIFIED BUFFERS ALONG PROPERTY LINES AND INTERNAL TO SITE.
- THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- TEMPORARY DRAINAGE CHANNEL AND CULVERTS TO BE DECOMMISSIONED.

**MAINTENANCE & OPERATIONS OF SEDIMENT CONTROLS**

**SILT FENCE**

- SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT.
- 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 THE FENCE.
- ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.

**STRAW BALE / ROCK CHECK DAM**

- REMOVE ACCUMULATED SEDIMENT UP STREAM OF THE CHECK DAM IF GREATER THAN ONE HALF OF DAM HEIGHT.
- SILT REMOVAL MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWN STREAM SEDIMENTATION IN SWALE OR DITCH.
- STRAW BALE CHECK DAM AND ALL ACCUMULATED SEDIMENT MUST BE REMOVED WITH CARE ONCE THE CONSTRUCTION SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.

**MUD MAT MAINTENANCE**

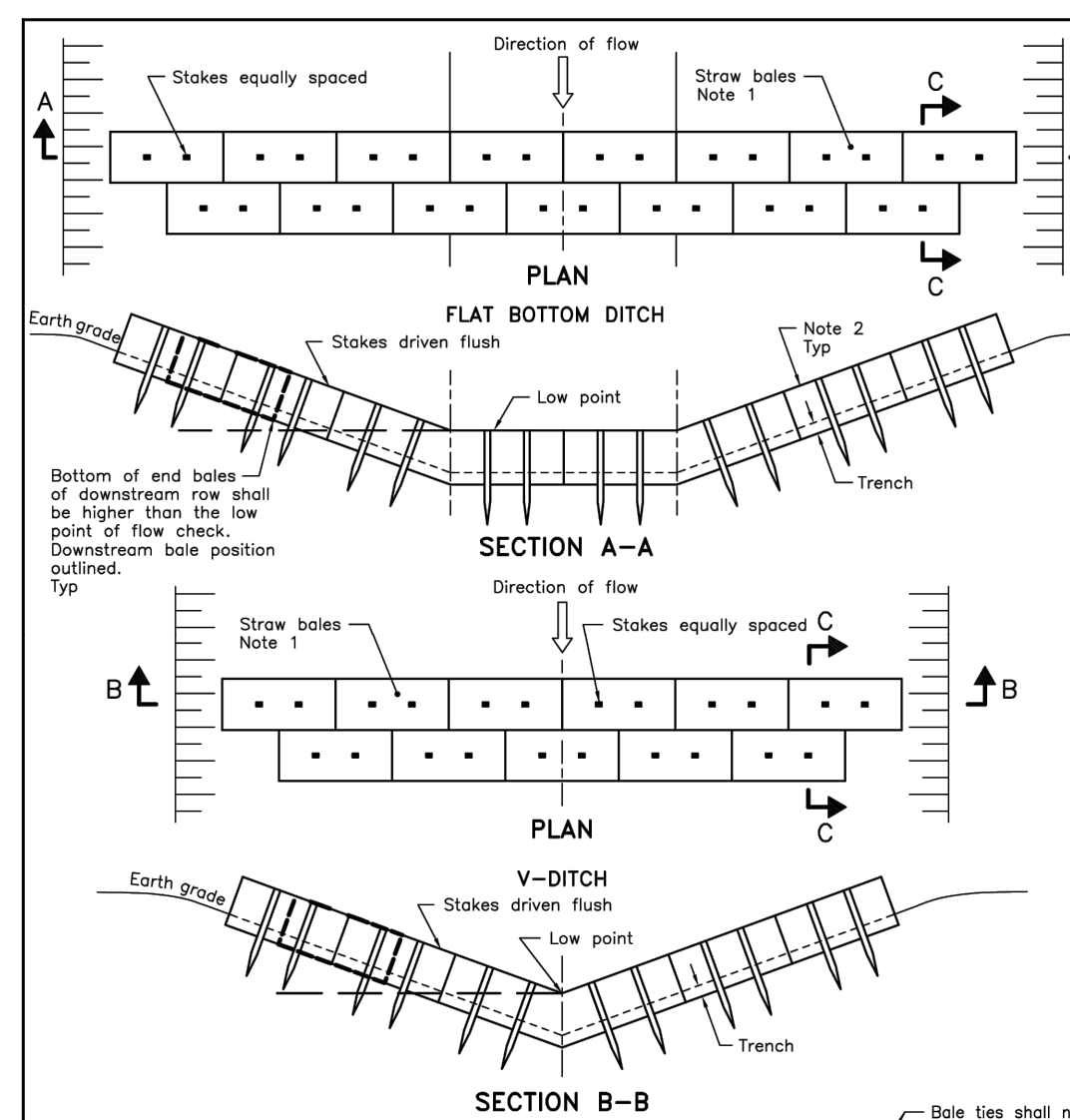
- INSPECT MUD MAT WEEKLY TO ASSESS CONDITION AND ENSURE OPERATION EFFICIENCY.
- SUPPLY AND PLACE ADDITIONAL CLEAR STONE AS DIRECTED BY SITE ENGINEER.
- MAT TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR AS DIRECTED BY SITE ENGINEER.

**DECOMMISSIONING / RESTORATION**

- FOLLOWING COMPLETION OF CONSTRUCTION AND AS DIRECTED BY SITE ENGINEER, ALL EROSION AND SEDIMENT CONTROL WORKS ARE TO BE REMOVED INCLUDING ANY ACCUMULATED SEDIMENT.
- ALL WORKS LOCATED ON LANDS OUTSIDE THE PROPOSED DEVELOPMENT AREA ARE TO BE GRADED TO MATCH EXISTING SURROUNDING GROUND AND HYDROSEEDED.
- ALL SEDIMENT BUILD-UP TO BE REMOVED FROM SEDIMENT BASINS. CUT AREAS AND SEDIMENT BASINS TO BE TREATED WITH 25mm OF TOPSOIL AND HYDROSEEDED AS DIRECTED BY SITE ENGINEER.
- FOLLOWING COMPLETION OF ZONE 3 CUT AREA, TOP SOIL TO BE SPREAD OUT AT 400mm DEPTH WITHIN THE CUT AREA LIMITS AND HYDROSEEDED.

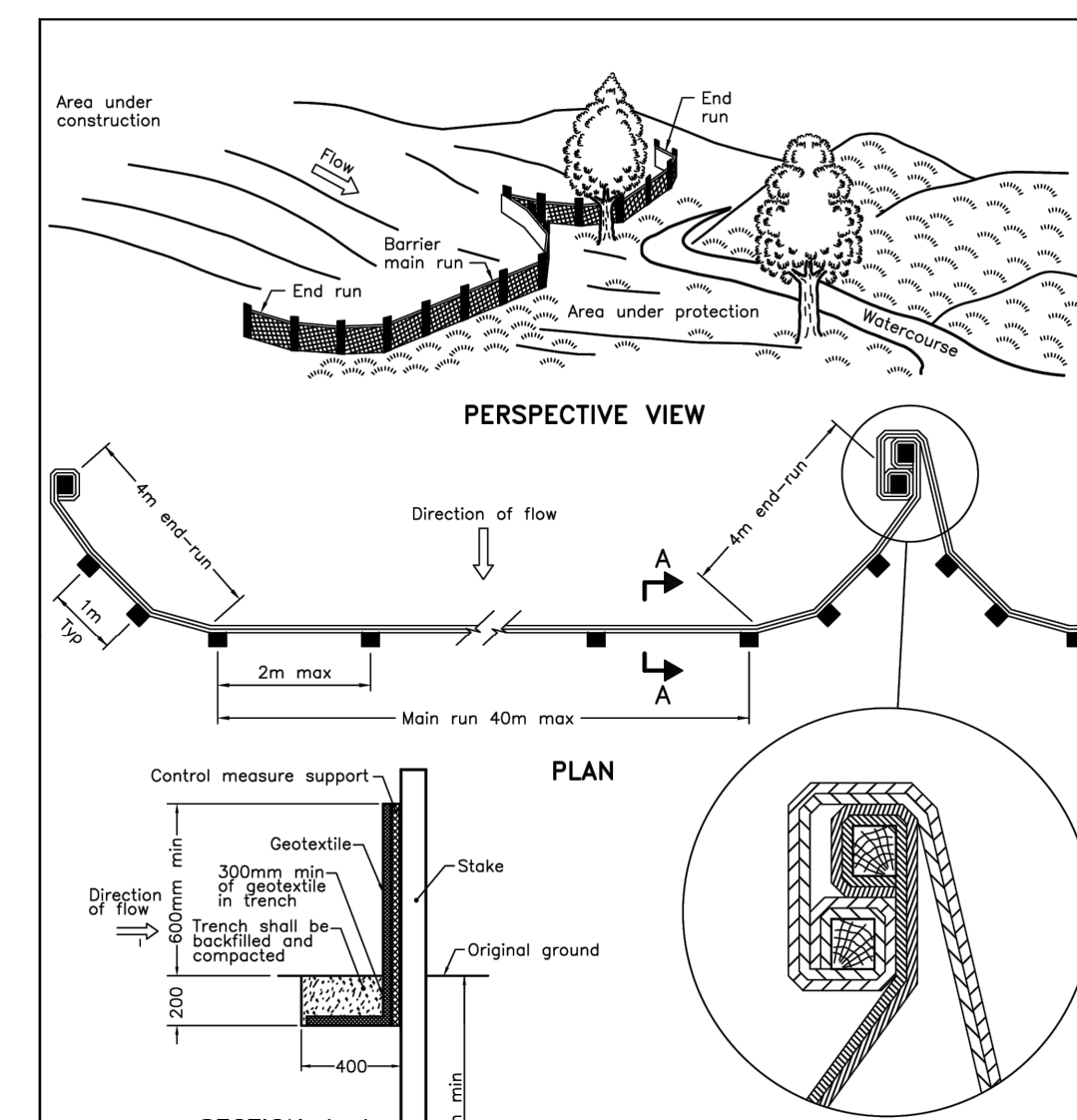
**NOTES:**

- RESIDENTIAL AREA TO BE PRE-GRADED BASED ON THE FOLLOWING PRE-GRADES:  
 LOTS (SINGLE FAMILY) -0.8m  
 LOTS (TOWNHOMES) -1.0m  
 ROADS -0.6m  
 PARKS -0.2m
- A PRE-GRADE DETAIL FOR WALK-OUT/LOOK-OUT UNITS WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO FILLING.
- REFER TO SITE GRADING PLANS FOR PROPOSED FINAL GRADES.
- POST ROAD SERVICING WORKS, CONTRACTOR TO PROVIDE POSITIVE DRAINAGE FOR LOT TUN-OFF VIA TEMPORARY SWALES AND/OR HICKENBOTTOM C/W CONNECTION TO STORM SEWER. WHERE APPLICABLE SILT FENCE TO BE LOCATED AT THE BOTTOM OF FILL SLOPES.



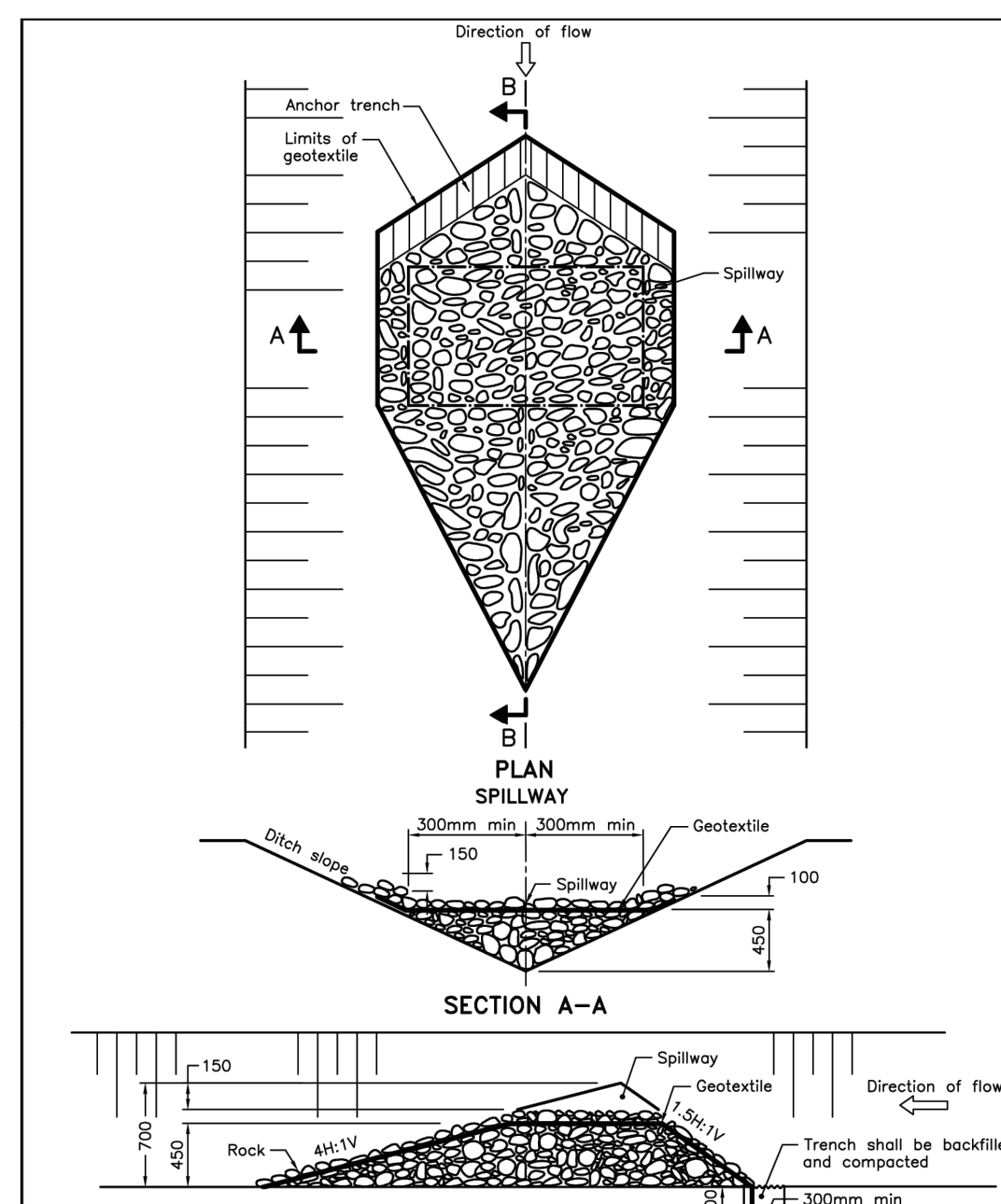
NOTES:  
 1 Number of bales varies and shall suit ditch.  
 2 Straw bales shall be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.  
 A Fill and compact gaps with loose straw.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 3	
<b>STRAW BALE FLOW CHECK DAM</b>			
			<b>OPSD 219.180</b>



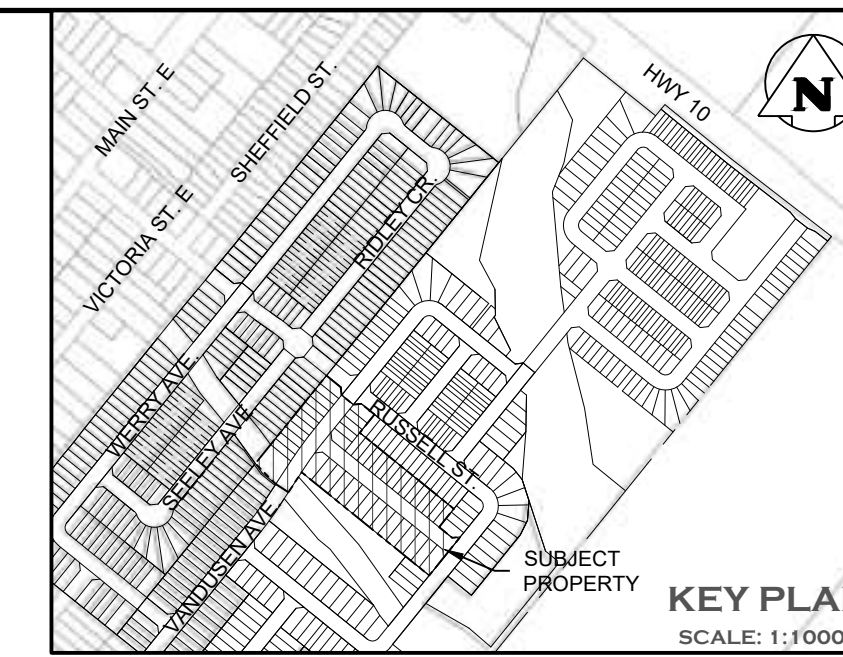
NOTE:  
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ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 3	
<b>HEAVY-DUTY SILT FENCE BARRIER</b>			
			<b>OPSD 219.130</b>



NOTE:  
 A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2022	Rev 3	
<b>TEMPORARY ROCK FLOW CHECK DAM V-DITCH</b>			
			<b>OPSD 219.210</b>



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Engineer	Project
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Drawing	SITE ALTERATION DETAILS

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				Drawing	104B

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