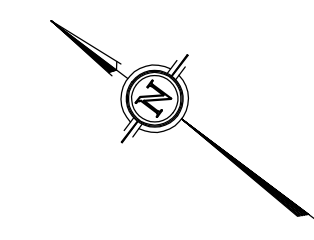




KEY PLAN
NOT TO SCALE

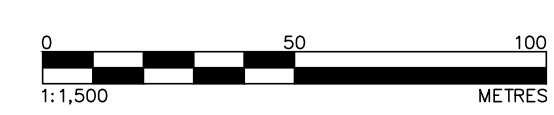


LEGEND

- EXISTING BOTTOM OF SLOPE
- EXISTING ROADWAY
- EXISTING TOP OF SLOPE
- EXISTING FENCE LINE
- EXISTING OVERHEAD WIRE
- PROPERTY BOUNDARY
- CATCHMENT AREA BOUNDARY
- CATCHMENT LABEL
- CATCHMENT AREA (HECTARES)
- CATCHMENT RUN-OFF COEFFICIENT
- PRE-DEVELOPMENT OVERLAND DRAINAGE ARROW
- EXISTING HYDRO POLE



PRE-DEVELOPMENT PLAN
SCALE = 1:1500



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NOTES:

No.	REVISION	DATE	BY
1	ISSUED FOR DRAFT PLAN APPROVAL	20 DEC 2024	SD

CONSULTANTS

**Kollaard Associates
Engineers**

BOX 189
210 PRESCOTT STREET
MERRICKVILLE, ONTARIO
K0G 1A0
FACSIMILE (613) 258-0475

(613) 860-0923

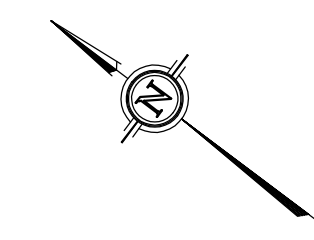
DESIGN	---
DRAWN	JR
CHECKED	SD
APPROVED	SD

CLIENT NAME	2873633 Ontario Inc.
PROJECT NAME	PROPOSED RESIDENTIAL SUBDIVISION
PROJECT LOCATION	819 COUNTY ROAD 23, MERRICKVILLE, ON, K0G 1N0
DRAWING	PRE-DEVELOPMENT PLAN

PROJECT No.	210816
DATE	2024.DEC.13
SCALE	AS_NOTED
DRAWING No.	210816-PRE

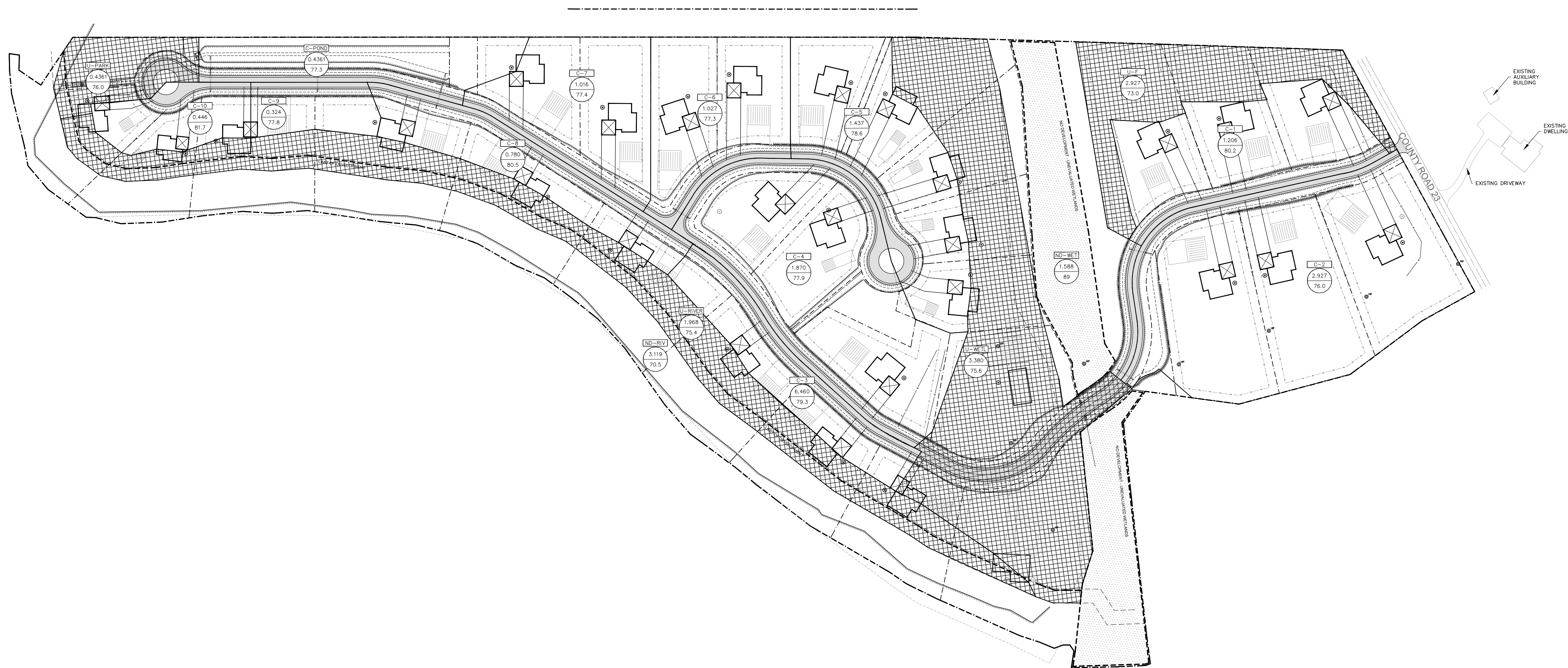


KEY PLAN
NOT TO SCALE

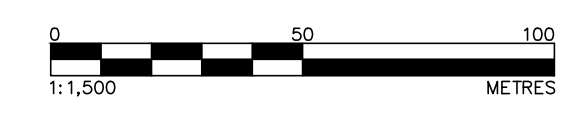


LEGEND

- BOTTOM OF SLOPE
- CENTERLINE OF FLOW
- TOP OF SLOPE
- PROPERTY BOUNDARY
- CONTROLLED CATCHMENT AREA
- UNCONTROLLED CATCHMENT AREA
- CATCHMENT LABEL
- CATCHMENT AREA (HECTARES)
- CATCHMENT RUN-OFF COEFFICIENT
- EXISTING ELEVATION
- PROPOSED DRILLED WELL



POST DEVELOPMENT PLAN
SCALE = 1:1500



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Engineers**

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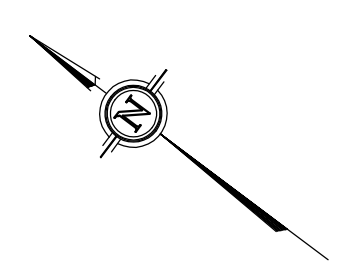
DESIGN	---
DRAWN	JR
CHECKED	SD
APPROVED	SD

CLIENT NAME	2873633 Ontario Inc.
PROJECT NAME	PROPOSED RESIDENTIAL SUBDIVISION
PROJECT LOCATION	819 COUNTY ROAD 23, MERRICKVILLE, ON, K0G 1N0
DRAWING	POST DEVELOPMENT PLAN

PROJECT No.	210816
DATE	2024.DEC.13
SCALE	AS_NOTED
DRAWING No.	210816-POST

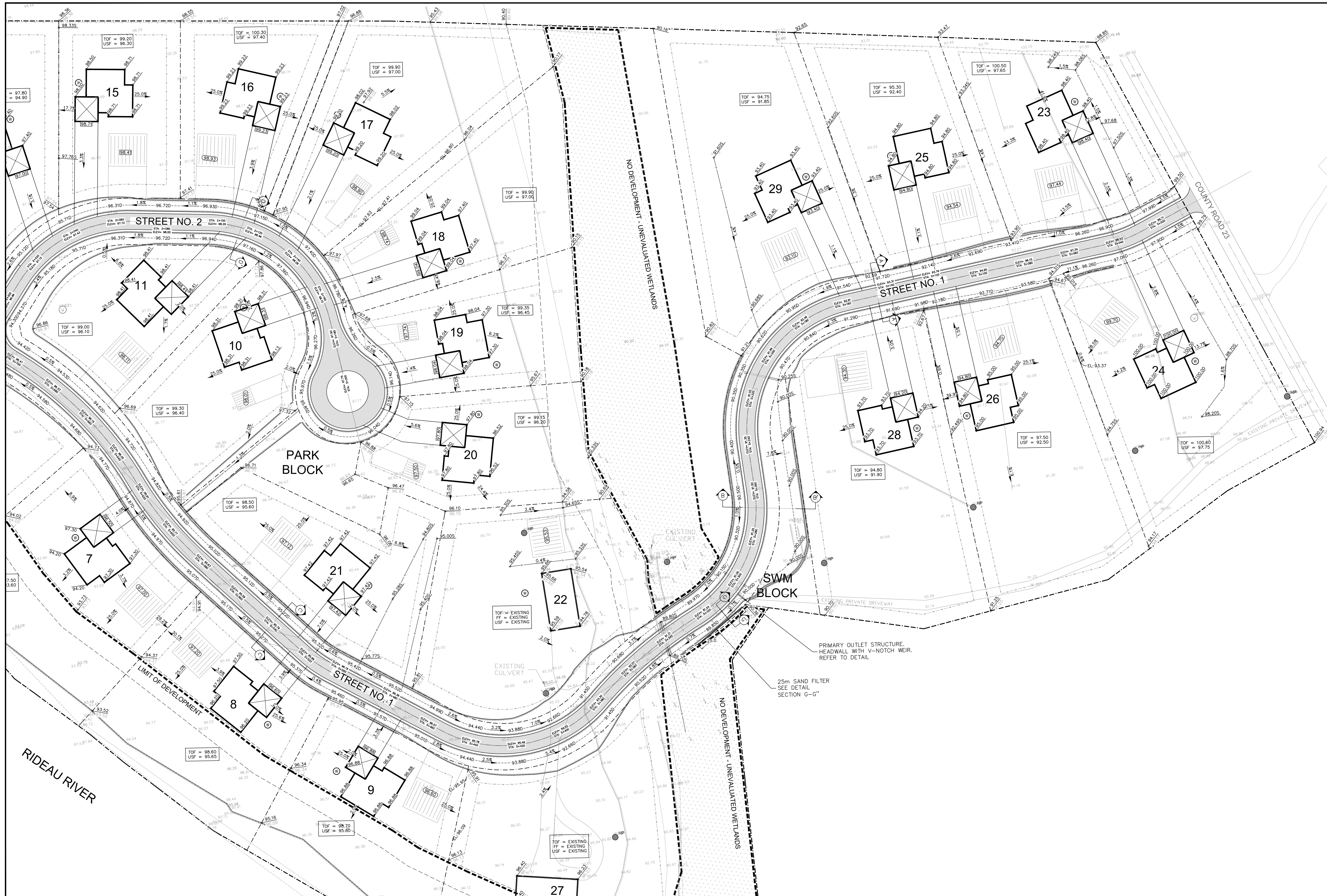
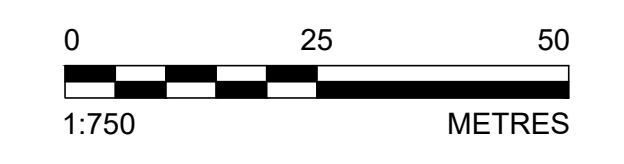


KEY PLAN
NOT TO SCALE



LEGEND

- EXISTING ELEVATION
- EXISTING SPOT ELEVATION
- PROPOSED/EXISTING ELEVATIONS
- PROPOSED SWALE ELEVATION
- PROPOSED DITCH ELEVATION
- DRAINAGE ARROW
- TOF = 94.85
USF = 92.25
- PROPOSED TOP OF SEPTIC LEACHING BED
- DIRECTION OF FLOW
- TOP OF SLOPE
- PROPOSED WELL LOCATION
- NO-DEVELOPMENT AREA
- PROPERTY LINES
- ZONING SETBACKS
- LOT LINES
- EDGE OF ASPHALT
- PROPOSED DWELLING LOCATION
- PROPOSED SEPTIC BED LOCATION



NOTES: 1. ALL DIMENSIONS ARE IN METRES, UNLESS OTHERWISE SPECIFIED; ALL ELEVATIONS ARE IN METRES.
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7. ALL DIMENSIONS TO BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
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9. INSPECTION OF ROUGH GRADE BY KOLLAARD ASSOCIATES INC. AND MUNICIPALITY MUST BE CONDUCTED PRIOR TO PLACEMENT OF TOPSOIL OR SOD.
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12. ANY CHANGES MADE TO THIS PLAN MUST BE VERIFIED AND APPROVED BY KOLLAARD ASSOCIATES, INC.
13. THIS DRAWING IS PART OF KOLLAARD ASSOCIATES DESIGN REPORT #210816.

No.	REVISION	DATE	BY
1	ISSUED FOR DRAFT PLAN APPROVAL	20.DEC.2024	SD

CONSULTANTS

Kollaard Associates Engineers

805 183
210 PRESCOTT STREET
MERRIVILLE, ONTARIO
N0G 1A0
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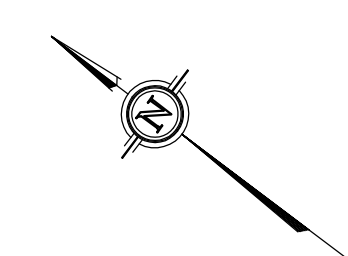
DESIGN: ---
DRAWN: JR/ABD
CHECKED: SD
APPROVED: XX

STAMP: LICENSED PROFESSIONAL ENGINEER
DEC 20 2024
S. E. deWit
100079612
PROVINCE OF ONTARIO

CLIENT NAME	2873633 Ontario Inc.	PROJECT NO.	210816
PROJECT NAME	PROPOSED RESIDENTIAL SUBDIVISION	DATE	2024.MAY.23
PROJECT LOCATION	819 COUNTY ROAD 23, MERRIVILLE, ON, K0G 1N0	SCALE	AS_NOTED
DRAWING	PROPOSED GRADING & DRAINAGE PLAN (1)	DRAWING NO.	210816-CR(1)

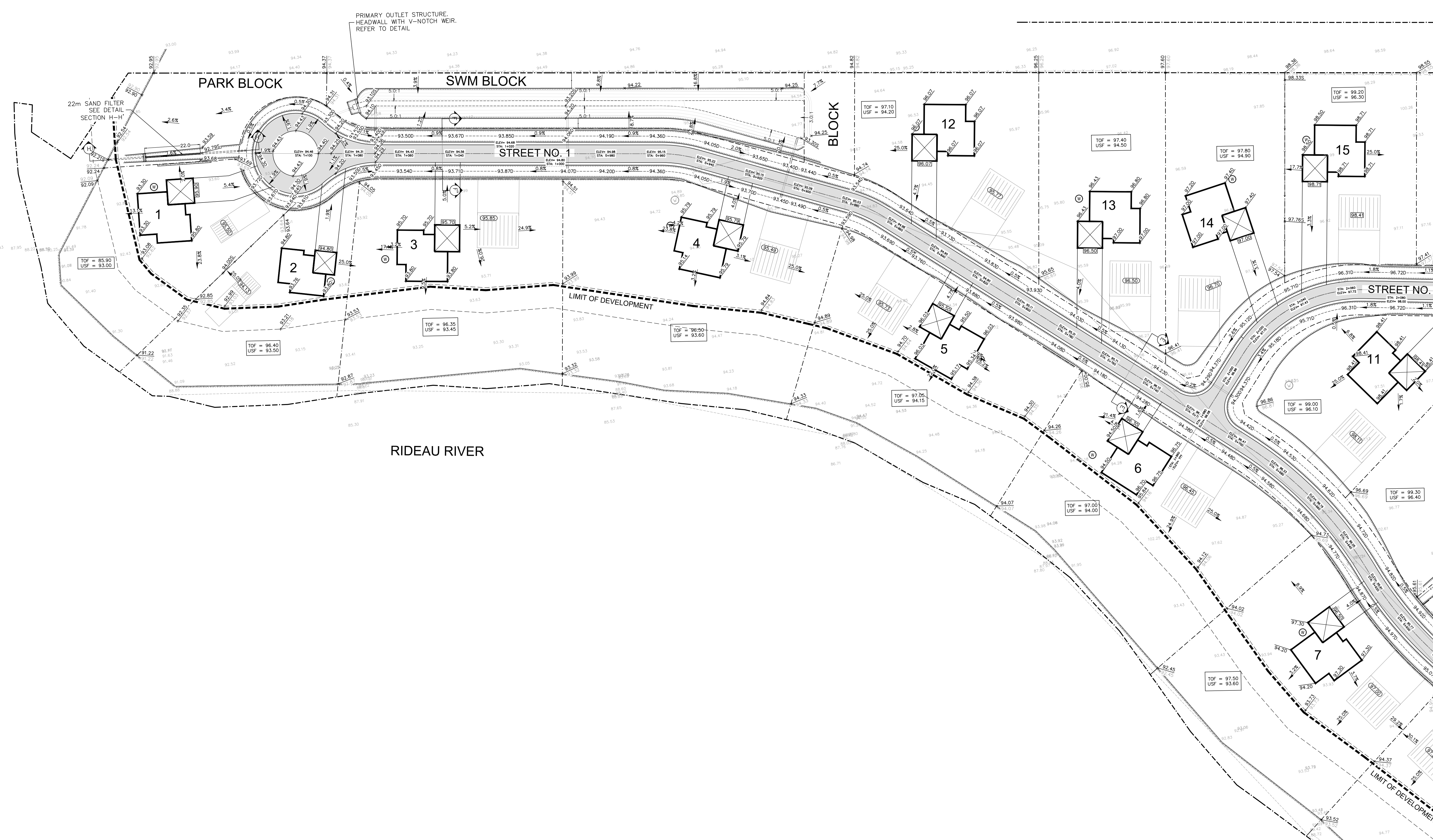
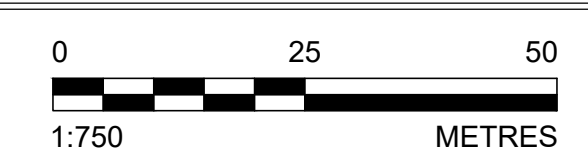


KEY PLAN
NOT TO SCALE



LEGEND

EXISTING ELEVATION	PROPOSED WELL LOCATION
EXISTING SPOT ELEVATION	NO-DEVELOPMENT AREA
PROPOSED/EXISTING ELEVATIONS	FENCELINE
PROPOSED SWALE ELEVATION	PROPERTY LINES
PROPOSED DITCH ELEVATION	ZONING SETBACKS
PROPOSED DRAINAGE ARROW	LOT LINES
PROPOSED DWELLING ELEVATIONS	EDGE OF ASPHALT
PROPOSED TOP OF SEPTIC LEACHING BED	PROPOSED DWELLING LOCATION
DIRECTION OF FLOW	PROPOSED SEPTIC BED LOCATION
TOP OF SLOPE	



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No.	REVISION	DATE	BY
1	ISSUED FOR DRAFT PLAN APPROVAL	20.DEC.2024	SD

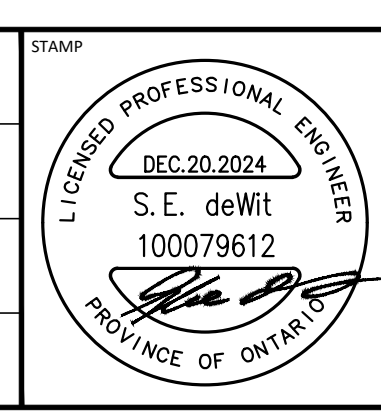
CONSULTANTS

Kollaard Associates Engineers

BOX 189
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K0G 1N0
FACSIMILE (613) 258-0475

(613) 860-0923

DESIGN	STAMP	CLIENT NAME
---		2873633 Ontario Inc.
DRAWN JR		PROJECT NAME PROPOSED RESIDENTIAL SUBDIVISION
CHECKED SD		PROJECT LOCATION 819 COUNTY ROAD 23, MERRICKVILLE, ON, K0G 1N0
APPROVED XX		DRAWING PROPOSED GRADING & DRAINAGE PLAN (2)

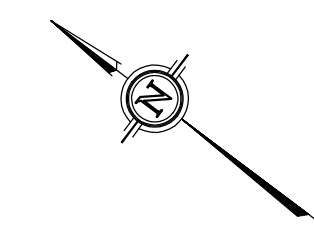


PROJECT No.	DATE	SCALE	DRAWING No.
210816	2024.MAY.23	AS_NOTED	210816-GR(2)

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KEY PLAN
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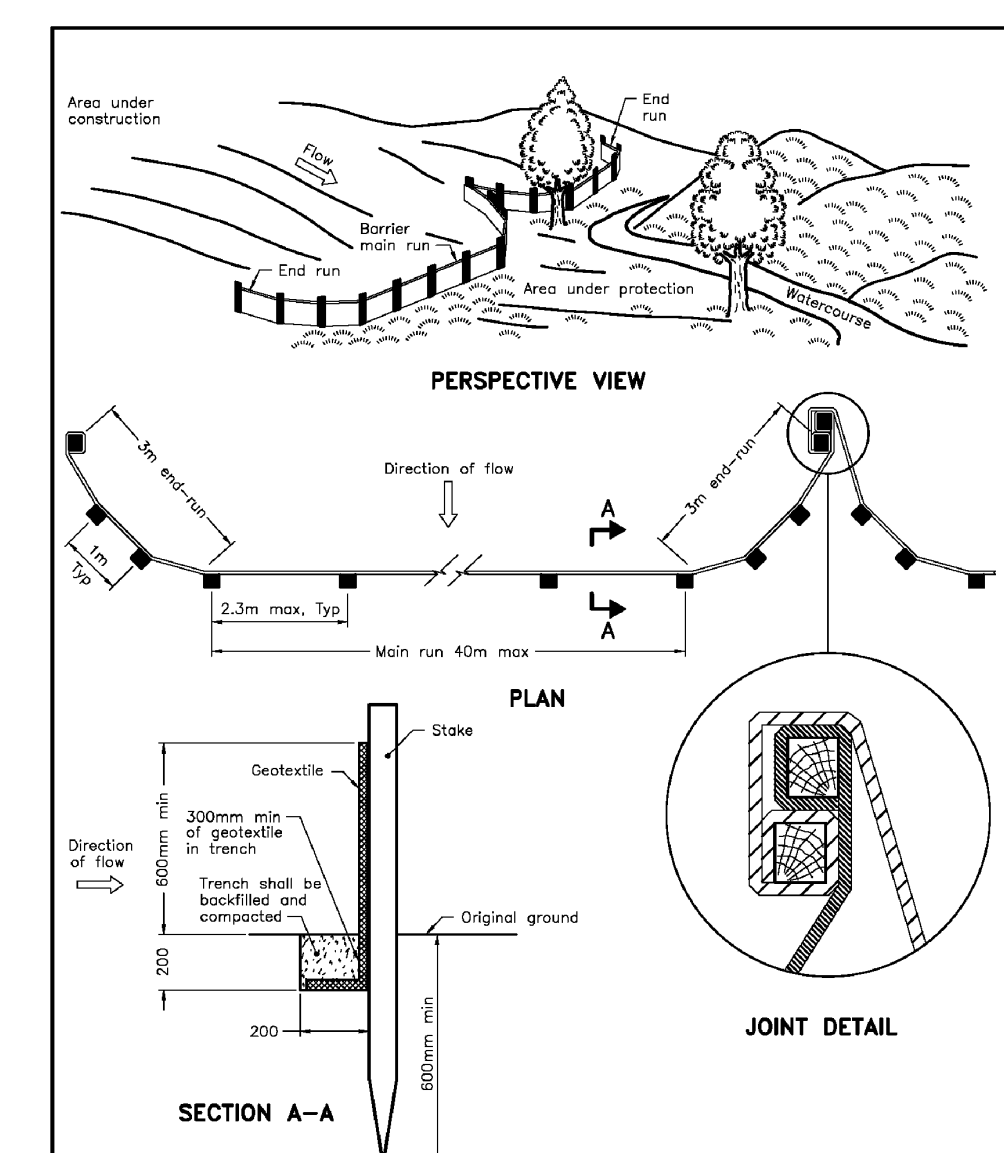
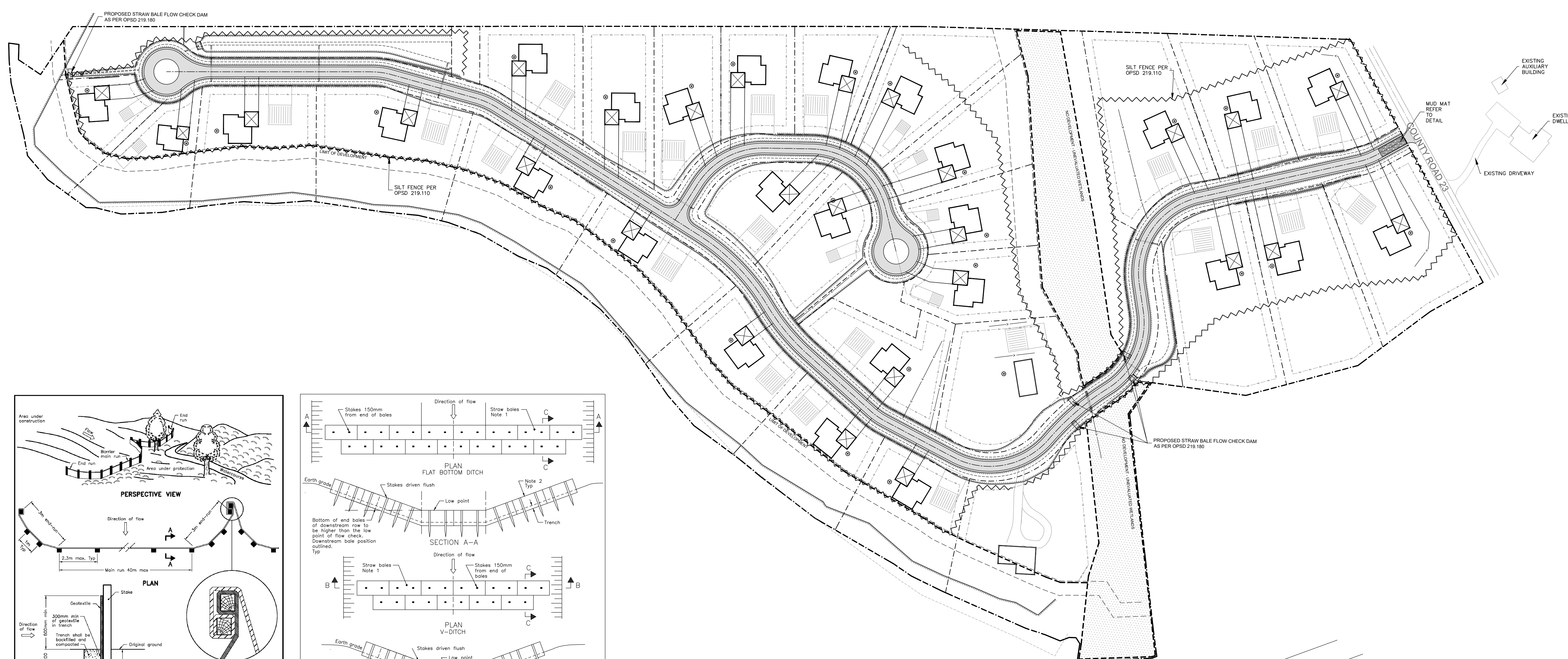
LEGEND

- PROPERTY BOUNDARY
- ~~~~~ SILT FENCE

EROSION AND SEDIMENT CONTROL NOTES:

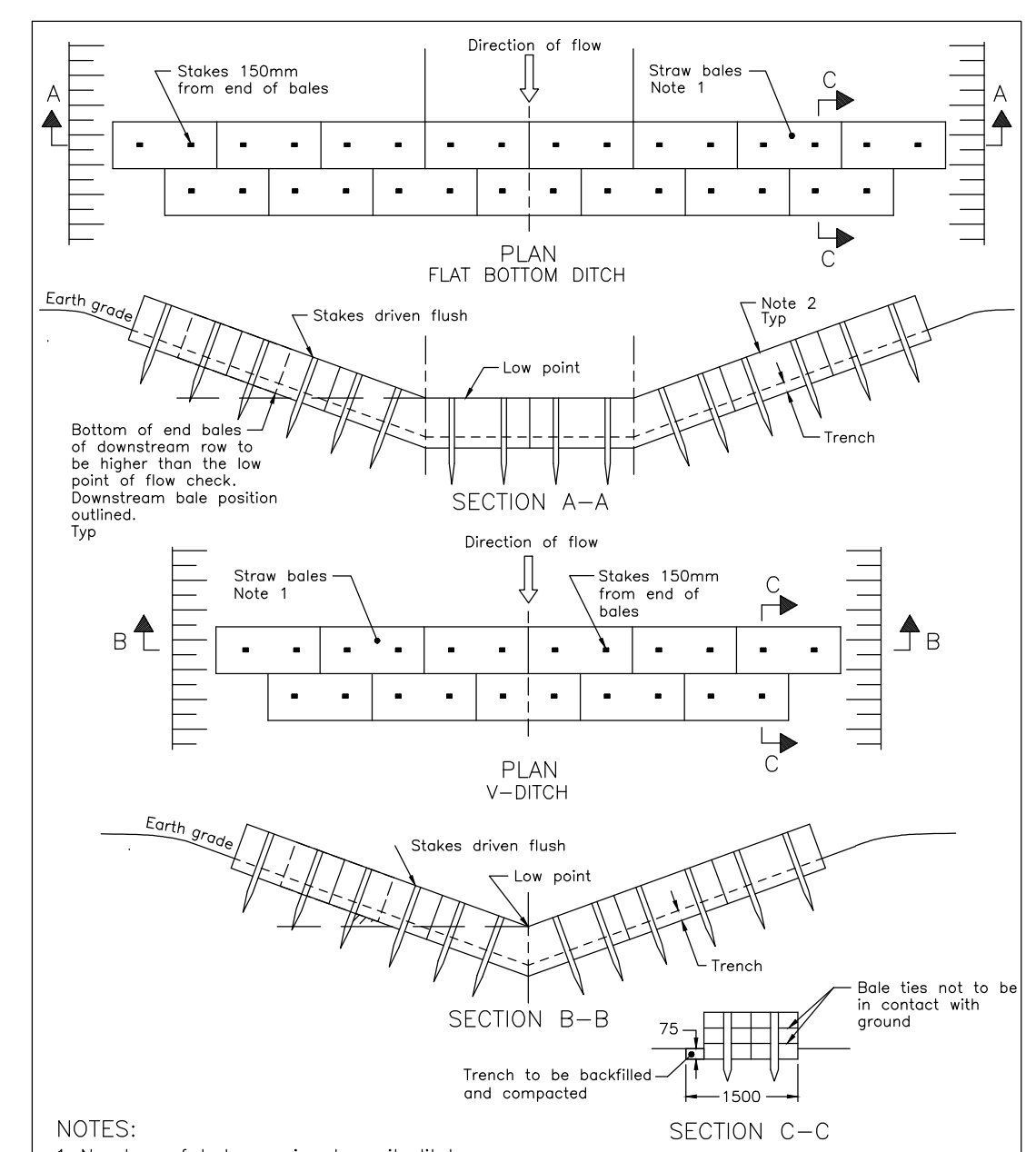
The following Sediment and Erosion Control measures are recommended during the various stages of development of the proposed subdivision.

- 1) Prior to Start of Construction:
 - a) Install silt fence, straw bale check dams and mud mat in location shown;
 - b) Inspect measures immediately after installation.
- 2) In General:
 - a) Do not locate topsoil piles or fill piles within 2.5 m from any paved or gravel surface area;
 - b) Control dust off site by seeding topsoil and soil piles and other disturbed areas watering as necessary if they are to remain unfinished longer than 30 days;
 - c) County Roadway to be cleaned of all sediment from vehicular tracking as required;
 - d) Provide mud mat where ever vehicular traffic leaves the site from an unpaved egress point;
 - e) All erosion control measures should be inspected within 24 hours of a storm event and should be cleaned / repaired / replaced as necessary;
- 3) During Construction of the Roadway:
 - a) Minimize the extend of the disturbed areas outside of the area immediately affected by the road construction;
 - b) Install silt fence at the perimeter of the disturbed area;
 - c) Ensure straw bale check dams are in place at the discharge point from the Cul-de-Sac;
 - d) Equipment used should be sufficient in size and quantity to ensure the construction time is minimized;
 - e) Any excess soil material excavated during the construction should be stockpiled on the proposed lots outside of vulnerable areas and outside of the road allowance. The soil should be leveled to rough grade and should be stabilized by seeding;
 - f) Cover disturbed areas with minimum 100 mm of topsoil then seed and mulch or hydro seed. The topsoil placement and seeding and mulching / hydro seeding should be completed within 30 days of start of the construction of the roadway;
- 4) During Construction of the Storm water Management Facility:
 - a) Minimize the extend of the disturbed areas outside of the area immediately affected by storm water management facility;
 - b) Install silt fence at the perimeter of the disturbed area;
 - c) Ensure straw bale check dams are in place downstream of the facility;
 - d) Equipment used should be sufficient in size and quantity to ensure the construction time is minimized;
 - e) Any excess soil material excavated during the construction should be stockpiled on the proposed lots outside of vulnerable areas and outside of the road allowance. The soil should be leveled to rough grade and should be stabilized by seeding;
 - f) Cover disturbed areas with minimum 100 mm of topsoil then seed and mulch or hydro seed. The topsoil placement and seeding and mulching / hydro seeding should be completed within 30 days of start of the construction of the facilities;
- 5) During Development of Individual Lots
 - a) Install silt fence at the perimeter of the disturbed area;
 - b) Control dust off site by seeding topsoil and other disturbed areas watering as necessary if they are to remain unfinished longer than 30 days;
 - c) Repair any erosion channels as they occur and redirect surface runoff with the use of berms to promote sheet flow;
 - d) Cover disturbed areas with minimum 100 mm of topsoil then seed and mulch or hydro seed as soon as possible;



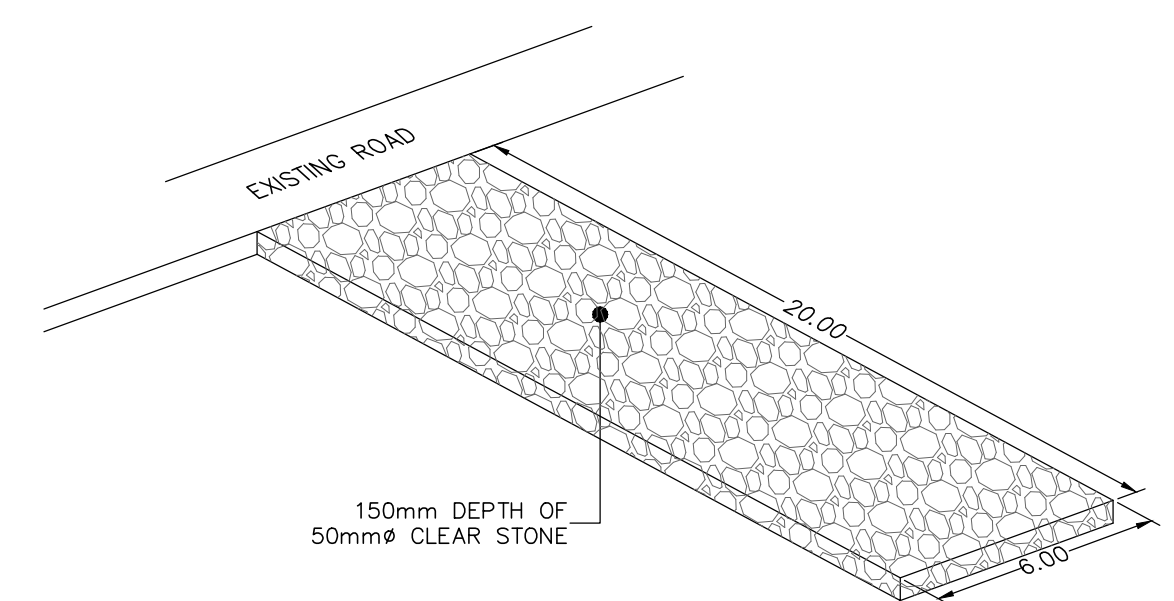
NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3
LIGHT-DUTY SILT FENCE BARRIER OPSD 219.110



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

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2006 Rev 1
STRAW BALE FLOW CHECK DAM OPSD 219.180

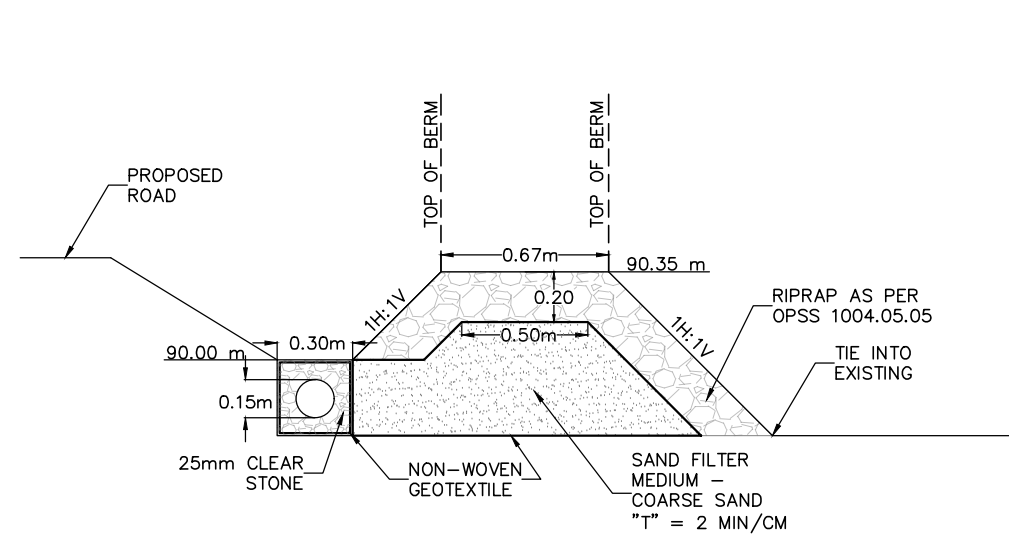
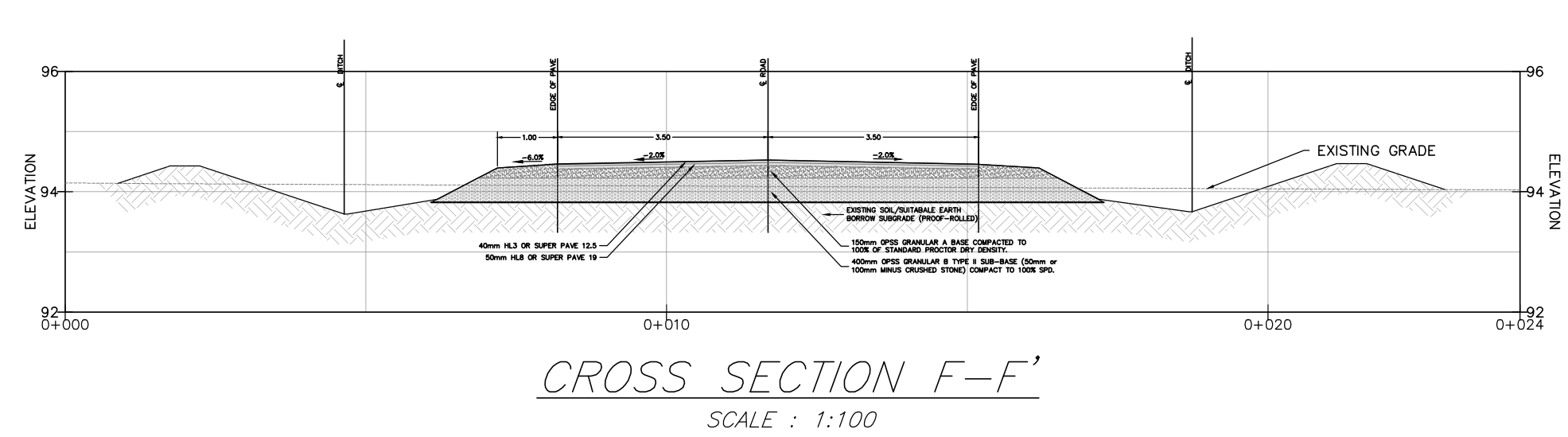
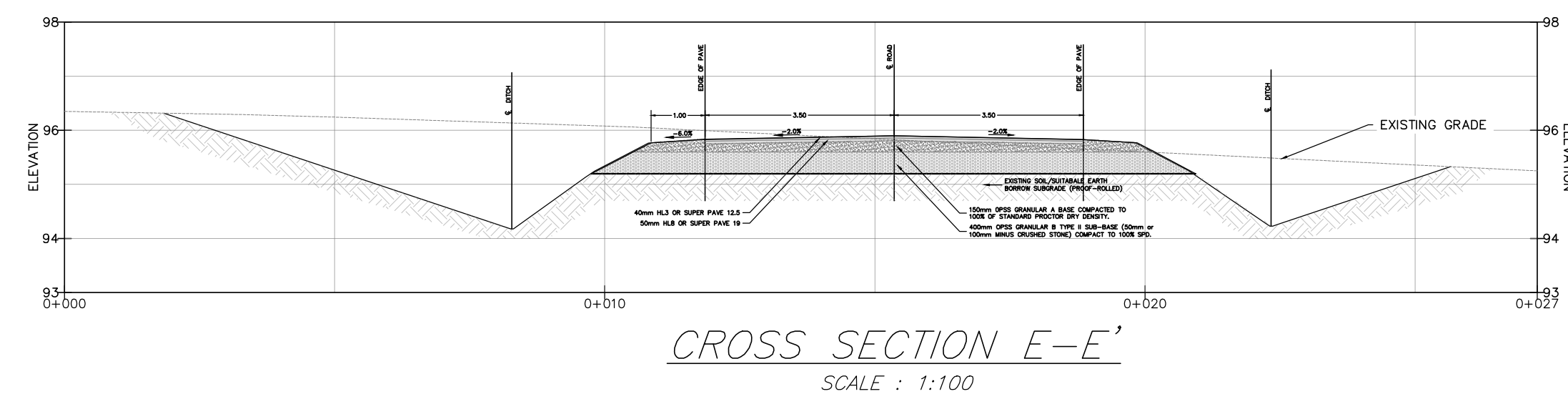
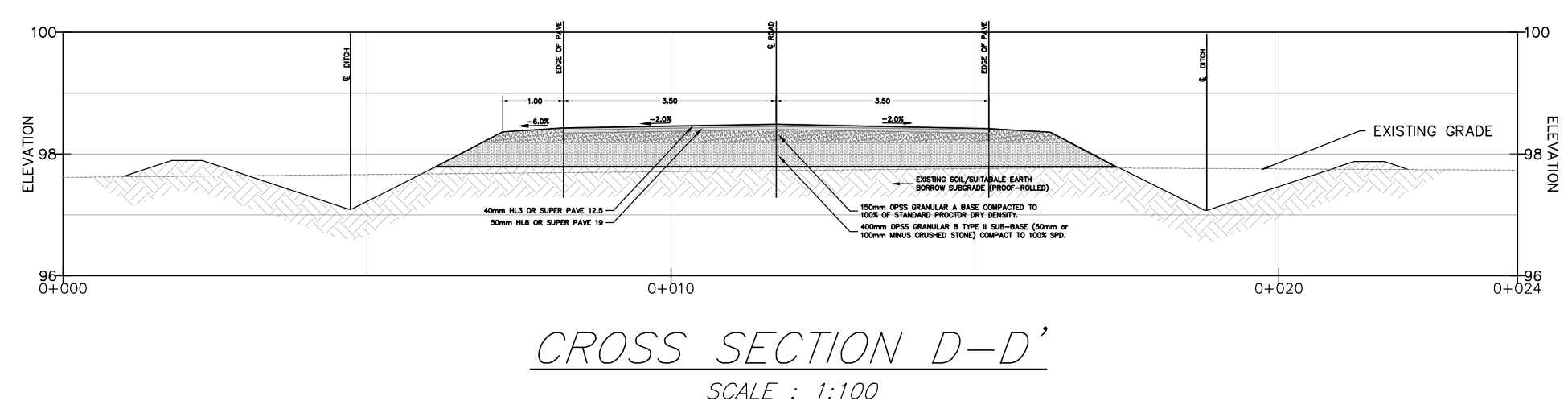
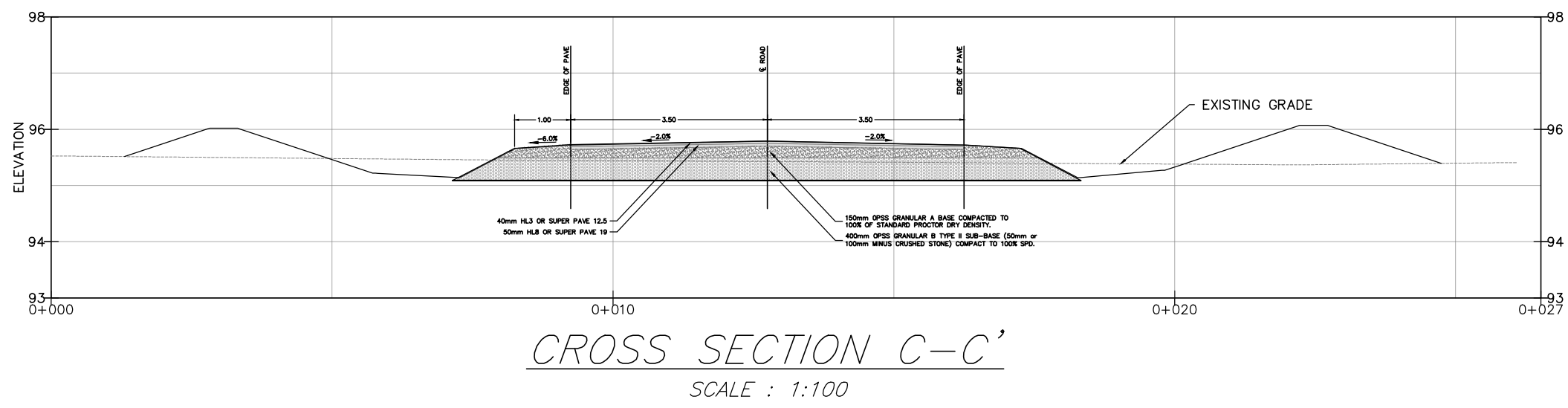
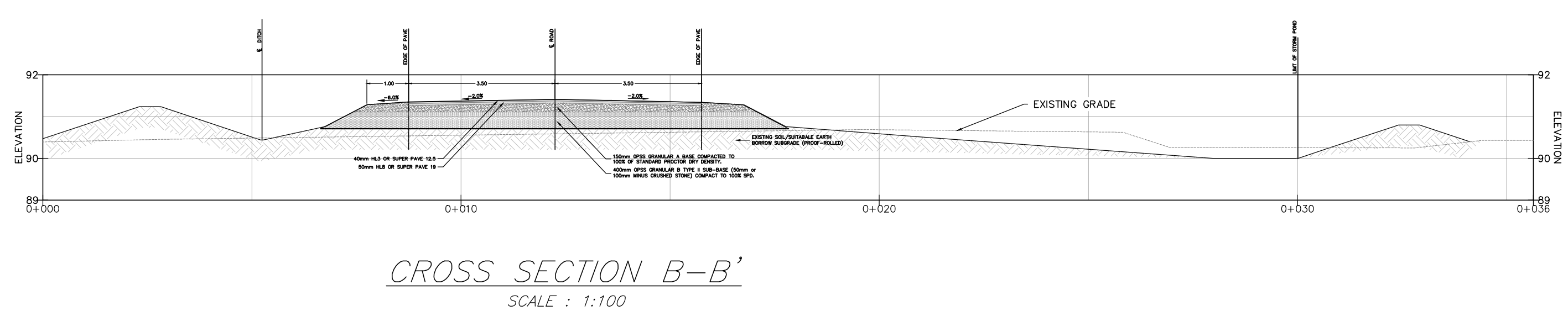
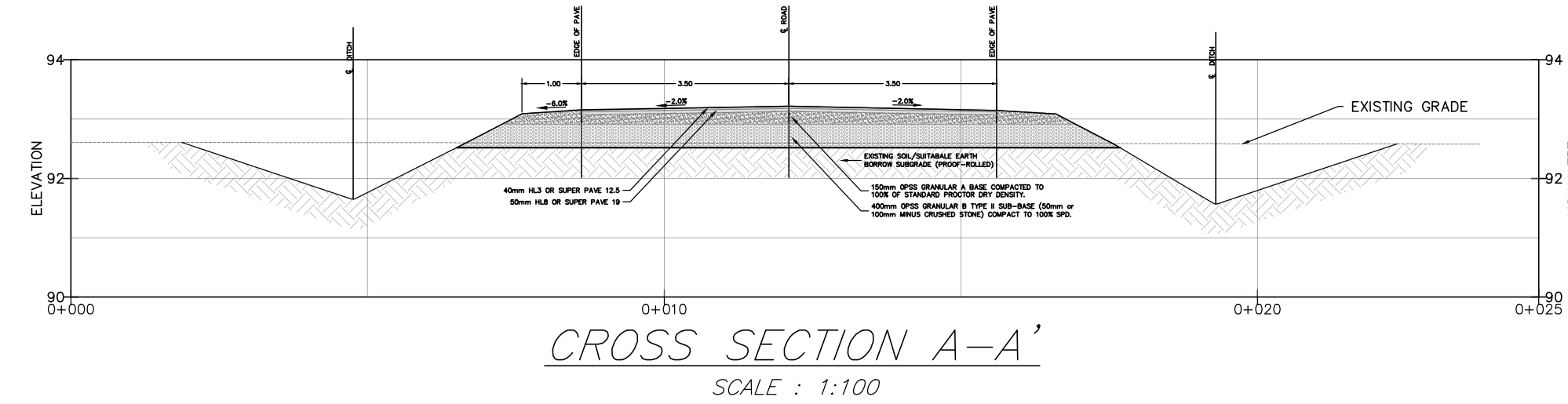


MUD MAT DETAIL
SCALE : NTS

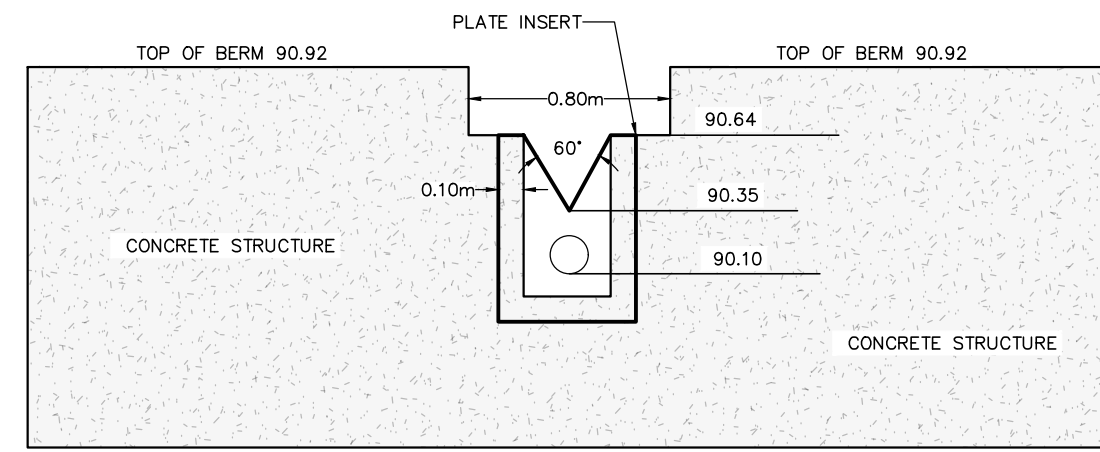
EROSION & SEDIMENT CONTROL PLAN
SCALE = 1:1500

NOTES:	CONSULTANTS			<p>BOX 189 210 PRESCOTT STREET MERRICKVILLE, ONTARIO K0G 1A0 FACSIMILE (613) 258-0475</p>	DESIGN	---	STAMP	---	CLIENT NAME	2873633 Ontario Inc.	PROJECT No.	210816
					DRAWN	JR			PROJECT NAME	PROPOSED RESIDENTIAL SUBDIVISION	DATE	2024.DEC.13
			CHECKED	SD			PROJECT LOCATION	819 COUNTY ROAD 23, MERRICKVILLE, ON, K0G 1N0	SCALE	AS_NOTED		
			APPROVED	SD			DRAWING	EROSION & SEDIMENT CONTROL PLAN	DRAWING No.	210816-ESC		
			No.	REVISION	DATE	BY						

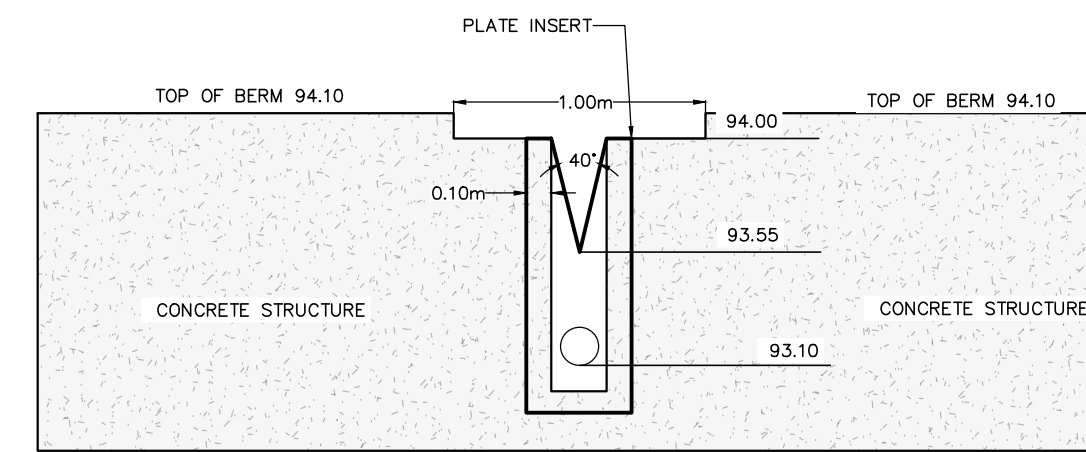
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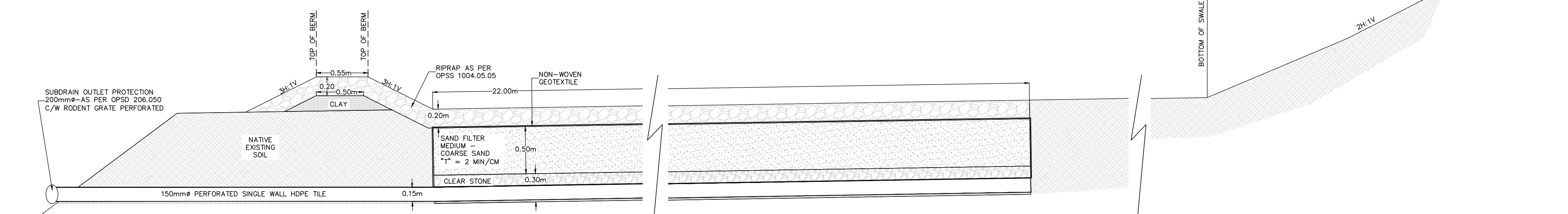
SUBDRAIN OUTLET DETAIL
CROSS SECTION G-G'
N.T.S.



SOUTH POND V-NOTCH
OUTLET STRUCTURE
N.T.S.



NORTH POND V-NOTCH
OUTLET STRUCTURE
N.T.S.



CROSS SECTION H-H'
SCALE : 1:30

- NOTES:
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No.	REVISION	DATE	BY
1	ISSUED FOR DRAFT PLAN APPROVAL	20.DEC.2024	SD

CONSULTANTS

Kollaard Associates
Engineers

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K0G 1A0
FACSIMILE (613) 258-0475

(613) 860-0923

DESIGN	STAMP
---	---
DRAWN JR/ABD	
CHECKED SD	
APPROVED XX	

CLIENT NAME	PROJECT NAME	PROJECT LOCATION	DRAWING
2873633 Ontario Inc.	PROPOSED RESIDENTIAL SUBDIVISION	819 COUNTY ROAD 23, MERRICKVILLE, ON, K0G 1N0	DETAIL SHEET

PROJECT No.	DATE	SCALE	DRAWING No.
210816	2024.DEC.18	AS_NOTED	210816-DS1