Match existing elevations along entire northern limit

Infiltration gallery

Rideau River Street

Max 3:1

10m Drainage Setback

Phase 2 blocks to be developed in the future when grading allows.

3:1

Mono Cliffs St

Bass Lake St

Esker Lake Dr

Rideau River Place

2.5m Asphalt Trail

2.0m Asphalt Trail

3.0m Asphalt Trail

Pinery Trail

Pedestrian Crossing

Drainage from park block will not cross onto private lots.

SWM Pond

4.0m Asphalt Pond Access

10m Wetland Buffer

15m Wetland Buffer

Wetland Edge

Ex. Wetland Edge

Ex. Water Edge

Beaver Creek

Park

School

Refer to park grading concept in the Preliminary Servicing Report, Appendix D, for additional grades and slopes.

3.0m Asphalt Walkway

Rushing River St

Roy Schmidt Road

Wasaga Crescent

Bollards/gates to be confirmed in detailed design

Max. 5.0% slope on trails

Infiltration gallery

2.0m grassed swale between trail and property line.

3.0m Asphalt Walkway

Esker Lake Dr to be super-elevated south of Rushing River St to force overland flow route into south-bound lane only.

Proposed Conservation Drive and roundabout design (by others)

All lots are back-to-front or split drainage unless shown otherwise:

W/O = "walkout" type lot
SS = "sunshine" or "lookout" type lot

Grading Legend

- × 123.45 — Original Ground Elevation
- × 123.45 / 123.45 — Proposed Ground Elevation / Original Ground Elevation
- Retaining Wall
- Armour Stone
- 2.0% — Overland Flow Direction
- Surface Drainage Direction/Slope
- Swale Direction at Lot Corner
- Swale Flow Direction
- D / D — Drainage Divide Line

LICENSED PROFESSIONAL ENGINEER
C. H. TOGERETZ
100147133
2025-04-16
PROVINCE OF ONTARIO

1:1000 (0 5 10 20 30 40)

MERITECH engineering
115 Bentley Street Barrie, Ontario L4N 2M3
T 1.855.514.1914 E info@meritech.ca

DRAWING: Preliminary Grading Plan
556 & 576 Conservation Drive

DRAWN BY:	STV	CHT	1: 1000
FILE NAME:	1279-Figures	DATE: Apr 2025	SCALE: 1279-SG

Split point of sanitary and 3rd pipe.

Rear yards to infiltration gallery, sized for 2-yr volume.

~Inv @ Intersection
Wat=362.80
San=361.85
CWC=362.00

~Inv @ Intersection
Stm=360.30
Wat=361.40
San=359.60
CWC=359.80

Rideau River Street

~Inv
Stm=356.30
Wat=356.70
San=355.35
CWC=356.00

~Inv @ Intersection
Stm=358.60
Wat=358.45
San=357.20
CWC=358.40

150mmø Wmn, Rideau River St, Mono Cliffs St & Bass Lake St

Rideau River Street

~Inv @ Intersection
Stm=360.95
Wat=360.65
San=359.55
CWC=360.70

150mmø Wmn, Esker Lake Dr (Pinery Trail to Rideau River Street) & Rideau River Street

Mono Cliffs St

Bass Lake St

Esker Lake Dr

Rideau River Place

Rideau River Street

~Inv @ Intersection
Stm=355.70
Wat=356.50
San=354.80
CWC=355.70

~Inv @ Intersection
Stm=359.45
Wat=359.80
San=358.10
CWC=359.30

~Inv @ Intersection
Stm=359.50
Wat=360.80
San=358.75
CWC=359.00

300mmø Wmn

Ex 200mmø Wmn

~Inv
Stm=355.20
Wat=356.00
San=354.30
CWC=355.00

Pinery Trail

Pinery Trail

~Inv @ Intersection
Stm=358.00
Wat=358.00
San=356.50
CWC=357.60

900mmø Stm into SWM Pond

~Inv
Stm=356.20
Wat=356.25
San=353.60
CWC=356.00

200mmø Wmn Pinery Trail (Esker Lake Dr to Rideau River St)

Wet Pond

Underground Infiltration System

Beaver Creek

Ex. Edge of Swamp

Ex. Waters Edge

10m Vegetated Buffer

10m Dripline Setback

15m Wetland Buffer

Level spreader

300mmø Wmn, Esker Lake Dr (Conservation Drive to Pinery Trail)

Esker Lake Dr

3rd pipe (CWC) system for roof leaders.

200mmø San, Remainder of Subdivision

School roof area to infiltration. Exact location to be determined.

~Inv
Wat=356.00
San=352.20
CWC=355.50

~Inv @ Intersection
Stm=354.80
Wat=354.10 (dip)
San=351.15
CWC=355.50

Rushing River St

Roy Schmidt Road

Wasaga Crescent

Overflow to storm sewer from CWC system (typ)

Rear yards to infiltration gallery, sized for 2-yr volume.

200mmø Wmn, Rushing River St

250mmø San, Esker Lake Dr (Conservation Drive to North end of Rushing River St)

Esker Lake Dr

Infiltration gallery

~Inv @ Intersection
Stm=354.30
Wat=355.10
San=350.75
CWC=354.00

Overflow to storm sewer from CWC system

600mmø Stm to External SWM Facility
Required Inv=353.00

Culverts to direct drainage under trail

1050mmø Stm to External SWM Facility
Required Inv=353.06

Connection of watermain by others

250mmø San to External SPS
Inv=349.29

Conservation Drive

Ex Gutter

Fy Gutter

Servicing Legend

- Ex=Existing
- Ex Sanitary/Storm Manhole/CB Manhole
- Ex Sanitary Sewer (Flow Direction)
- Ex Storm Sewer (Flow Direction)
- Ex Water Valve/Curb Stop
- Ex Fire Hydrant & Valve Set
- Pr=Proposed
- Pr Sanitary/Storm Manhole
- Pr Sanitary Sewer (Flow Direction)
- Pr Storm Sewer (Flow Direction)
- Pr Water Valve/Curb Stop/Reducer
- Pr Fire Hydrant & Valve Set

LICENSED PROFESSIONAL ENGINEER
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2025-04-16
PROVINCE OF ONTARIO

1:1000

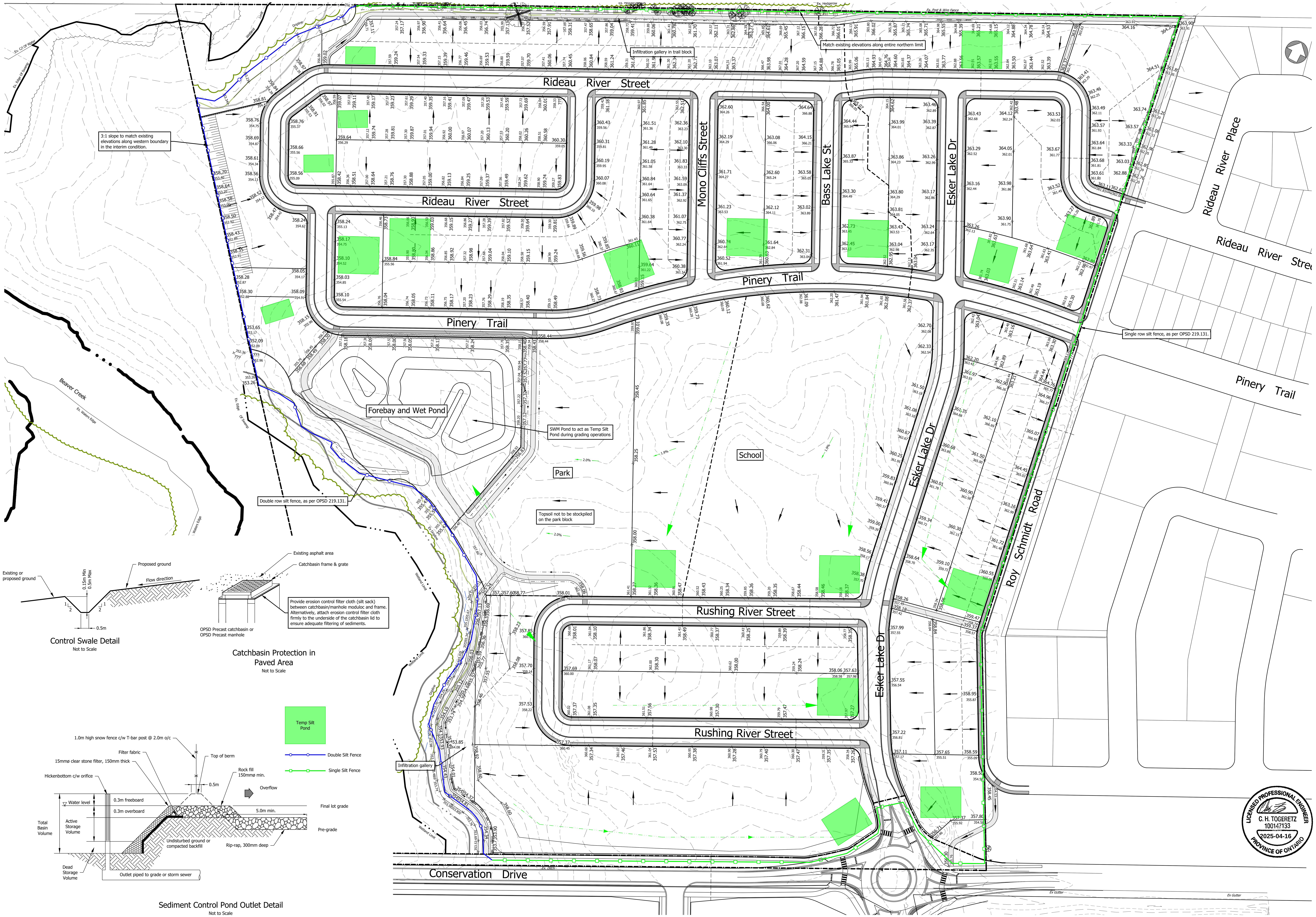
0 5 10 20 30 40

1:1000

MERITECH engineering
111 Elmira Street North, Unit 201, Elmira
T 519.514.4240 F 519.514.4241 www.meritech.ca

DRAWING: Preliminary Servicing Plan
556 & 576 Conservation Drive

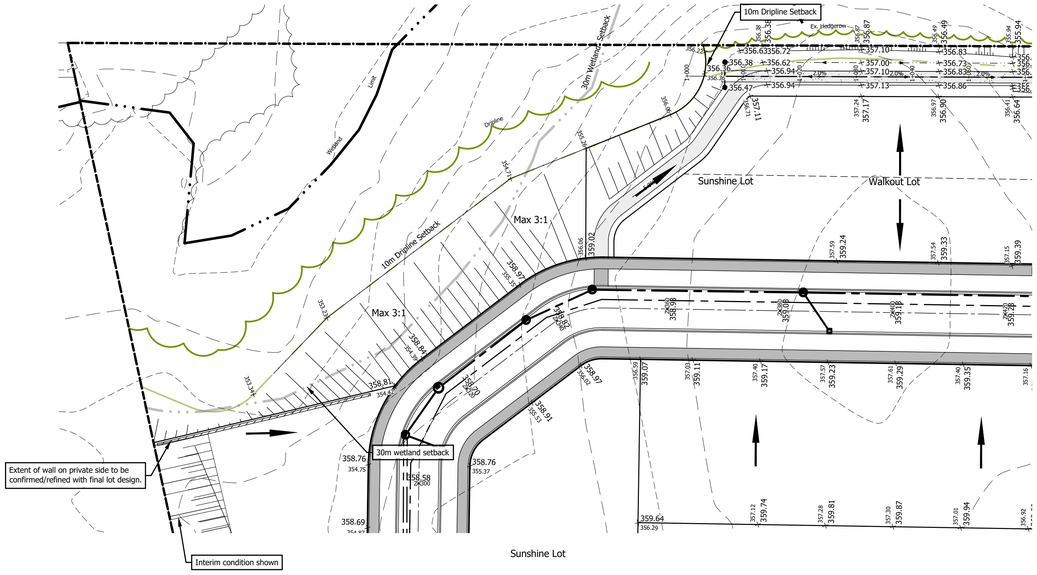
DRAWN BY: STV | CHECKED BY: CHT | SCALE: 1:1000
FILE NAME: 1279-Figures | DATE: Apr 2025 | 1279-SS



MERITECH engineering
1315 Bishop Street North, Suite 202 Cambridge
T 519.623.1140 F 519.623.7334 www.meritech.ca

LICENSED PROFESSIONAL ENGINEER
C. H. TOGERETZ
100147133
2025-04-16
PROVINCE OF ONTARIO

DRAWING:	Preliminary Erosion & Sedimet Control Plan 556 & 576 Conservation Drive
DRAWN BY:	STV
CHECKED BY:	CHT
SCALE:	1: 1000
FILE NAME:	1279.Figures
DATE:	Apr 2025
	1279-ESC



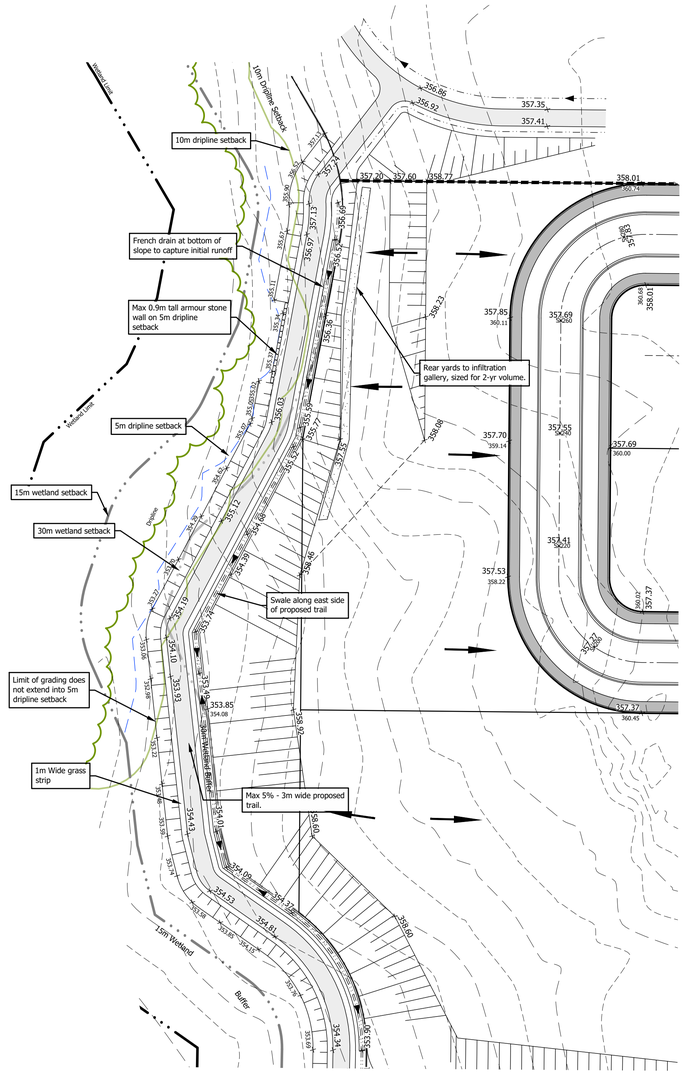
Trail North-West of Rideau River Street

1:500



Typical Trail Section

Not to Scale



Trail West of Rushing River Street

1:500

MERITECH engineering
111 Elmira Street North, Suite 201 Cambridge
T 519.514.6788 E info@meritech.ca

1:500

0 2.5 5 10 15 20

1:500

DRAWING:	Trail Grading Details and Cross-Sections 556 & 576 Conservation Drive
DRAWN BY:	STV
CHECKED BY:	CHT
SCALE:	1:500
DATE:	Apr 2025
FILE NAME:	1279-Figures
	1279-Tail_Sections

LICENSED PROFESSIONAL ENGINEER
C. H. TOGERETZ
100147133
2025-04-16
PROVINCE OF ONTARIO

Rideau River Street

Pinery Trail

Rushing River St

Conservation Drive

Mono Cliffs St

Bass Lake St

Esker Lake Dr

Rideau River Place

Wasaga Crescent

Roy Schmidt Road

Kawartha Street

East/ West Drainage Split

5m Hedgerow Setback

10m Dripline Setback

15m Wetland Buffer

30m Wetland Buffer

Wet Pond

Underground Infiltration System

Ex. Water Edge

Ex. Edge of Swamp

Wetland Limit

Dripline

Drainage area (ha)

Drainage area number

Run-off coefficient

Drainage area boundaries

Overland flow direction

1:1000

0 5 10 20 30 40

1:1000

MERITECH engineering
115 Bissett Street South, Suite 201 Cambridge
T 519.624.1854 F 519.621.2569 www.meritech.ca

DRAWING: Storm Drainage Area Plan
556 & 576 Conservation Drive

DRAWN BY:	STV/KEC	CHECKED BY:	CHT
FILE NAME:	1279-Figures	DATE:	Apr 2025
		SCALE:	1: 1000
			1279-Stm

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C. H. TOGERETZ
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2025-04-16
PROVINCE OF ONTARIO

Rideau River Street

Pinery Trail

Mono Cliffs St

Bass Lake St

Esker Lake Dr

Rideau River Place

Rideau River Street

Pinery Trail

Esker Lake Dr

Roy Schmidt Road

Wasaga Crescent

Kawartha Street

Rushing River St

Conservation Drive

Beaver Creek

Ex. Water Edge

Ex. Edge of Swamp

Ex. Water Edge

Ex. Water Edge

Wetland Limit

Dripline

10m Dripline Setback

30m Wetland Buffer

15m Wetland Buffer

Wetland Limit

Wetland Limit

Dripline

10m Dripline Setback

30m Wetland Buffer

15m Wetland Buffer

Wetland Limit

5m Hedgerow Setback

Wet Pond

Underground Infiltration System

1 & 1/2 Storey Structure Protection

200mmø@0.6%min.

250mmø@0.6%min.

250mmø@0.6%min.

250mmø@0.6%min.

250mmø@0.6%min.

A

B

C

D

E

F

2.03
3
RES | 116

8.99
4
RES | 548

0.30
1
RES | 14

3.67
2
RES | 250

0.76
7
RES | 75

7.12
5
RES/INST | 373

0.63
6
RES | 48

Area
ID
Zone | Pop

Drainage area (ha)

Drainage area number

Population

Zoning

Drainage area boundaries

LICENSED PROFESSIONAL ENGINEER
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100147133
2025-04-16
PROVINCE OF ONTARIO

MERITECH engineering
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1:1000 0 5 10 20 30 40 1:1000

DRAWING: Sanitary Drainage Area Plan
556 & 576 Conservation Drive

DRAWN BY:	STV/KEC
FILE NAME:	1279-Figures
CHECKED BY:	CHT
DATE:	Apr 2025
SCALE:	1: 1000
	1279-San