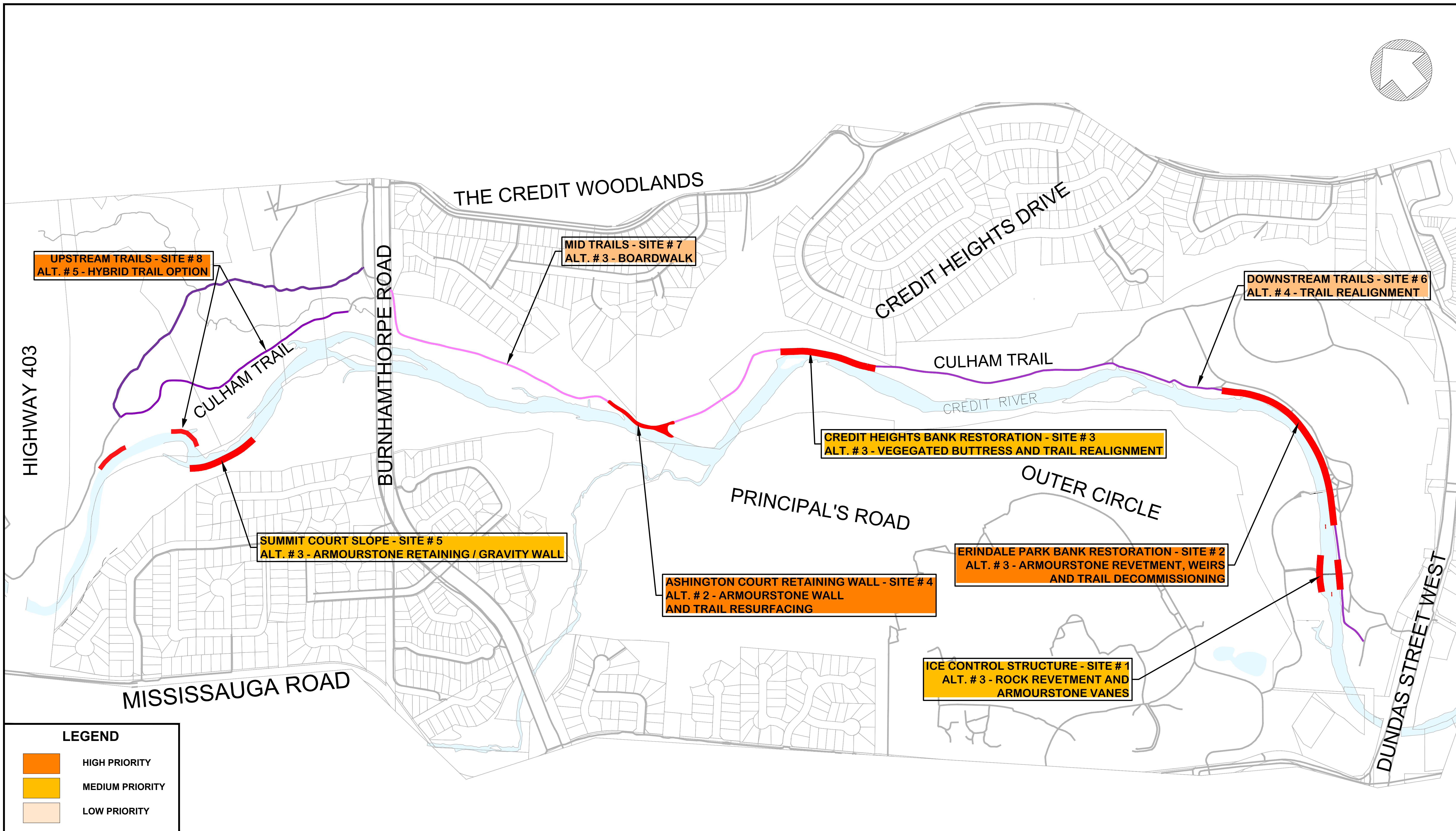
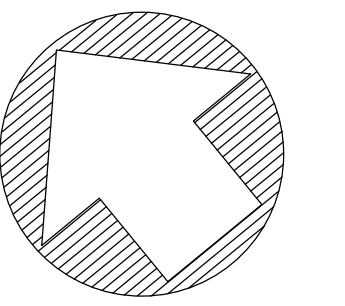


**Appendix D – Conceptual Design Drawings for Alternative Solutions**



UPSTREAM TRAILS - SITE # 8  
ALT. # 5 - HYBRID TRAIL OPTION

MID TRAILS - SITE # 7  
ALT. # 3 - BOARDWALK

DOWNSTREAM TRAILS - SITE # 6  
ALT. # 4 - TRAIL REALIGNMENT

CREDIT HEIGHTS BANK RESTORATION - SITE # 3  
ALT. # 3 - VEGETATED BUTTRESS AND TRAIL REALIGNMENT

SUMMIT COURT SLOPE - SITE # 5  
ALT. # 3 - ARMOURSTONE RETAINING / GRAVITY WALL

ASHINGTON COURT RETAINING WALL - SITE # 4  
ALT. # 2 - ARMOURSTONE WALL AND TRAIL RESURFACING

ERINDALE PARK BANK RESTORATION - SITE # 2  
ALT. # 3 - ARMOURSTONE REVETMENT, WEIRS AND TRAIL DECOMMISSIONING

ICE CONTROL STRUCTURE - SITE # 1  
ALT. # 3 - ROCK REVETMENT AND ARMOURSTONE VANES

**LEGEND**

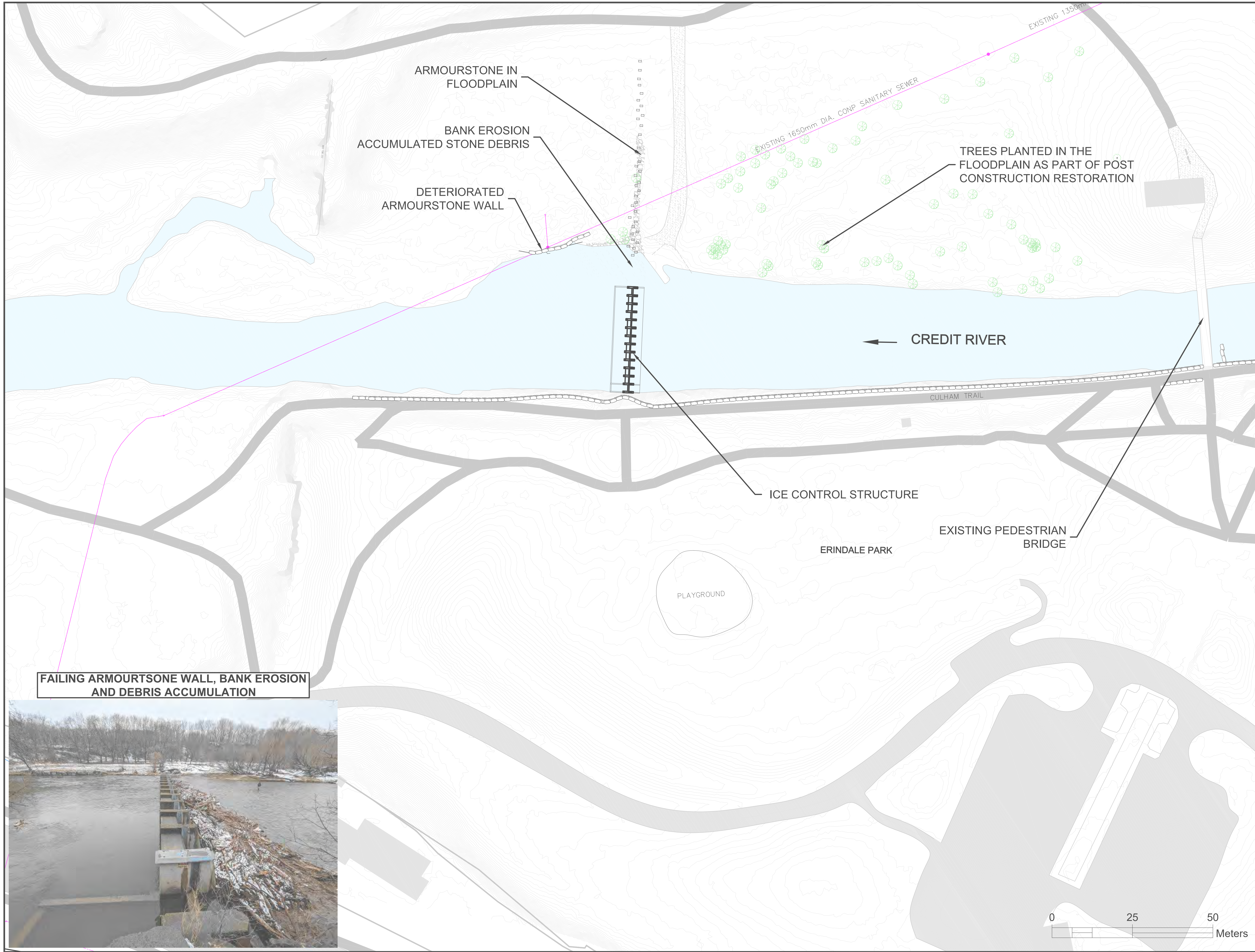
- HIGH PRIORITY
- MEDIUM PRIORITY
- LOW PRIORITY

**Aquafor Beech**  
Limited

# 6-202-2600 SKYMARK Ave.  
MISSISSAUGA, ONTARIO, L4W 5B2  
PHONE: (905) 629-0099, FAX: (905) 629-0089

**CREDIT RIVER EROSION CONTROL PROJECT  
DUNDAS STREET WEST TO HIGHWAY 403  
PROPOSED PROJECT EXTENTS**





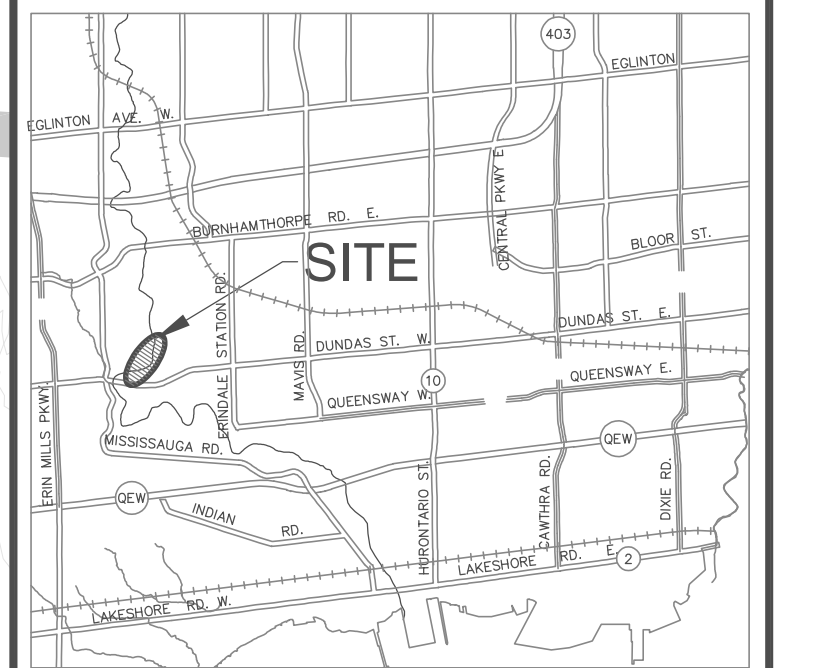
**FAILING ARMOURSTONE WALL, BANK EROSION AND DEBRIS ACCUMULATION**



2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	TOP OF BANK
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	EXISTING TRAIL



**KEY PLAN**  
N.T.S.

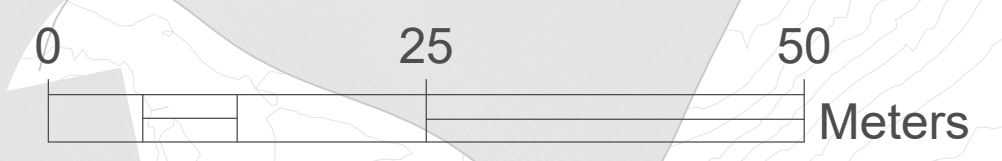
**Aquafor Beech**  
 Limited  
4-222-2402 5570 AVENUE  
 MISSISSAUGA, ONTARIO, L4V 1S2  
 PHONE: (905) 629-0099 FAX: (905) 629-0099

**MISSISSAUGA**

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**ICE CONTROL STRUCTURE  
ALTERNATIVE 1 - DO NOTHING**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:500	DATE:	FEB. 27, 2023	SHEET NO.	1 OF 3





RESTORE / RESET ARMOURSTONE IN FLOODPLAIN TO ORIGINAL GRADE AND ALIGNMENT

AREA OF 200mm- 300mmØ RIP-RAP REGRADING

PROPOSED ARMOURSTONE WALL AT ORIGINAL BANK LOCATION

SANITARY MANHOLE TO BE RAISED / RERHABILITATED

TREES PLANTED IN THE FLOODPLAIN AS PART OF POST CONSTRUCTION RESTORATION TO BE REMOVED

CREDIT RIVER

ICE CONTROL STRUCTURE TO BE RETAINED / PROTECTED

ERINDALE PARK

PLAYGROUND

REMOVE AND REPLACE WITH NEW ARMOURSTONE RETAINING WALL

DUNDAS STREET WEST

CULHAM TRAIL

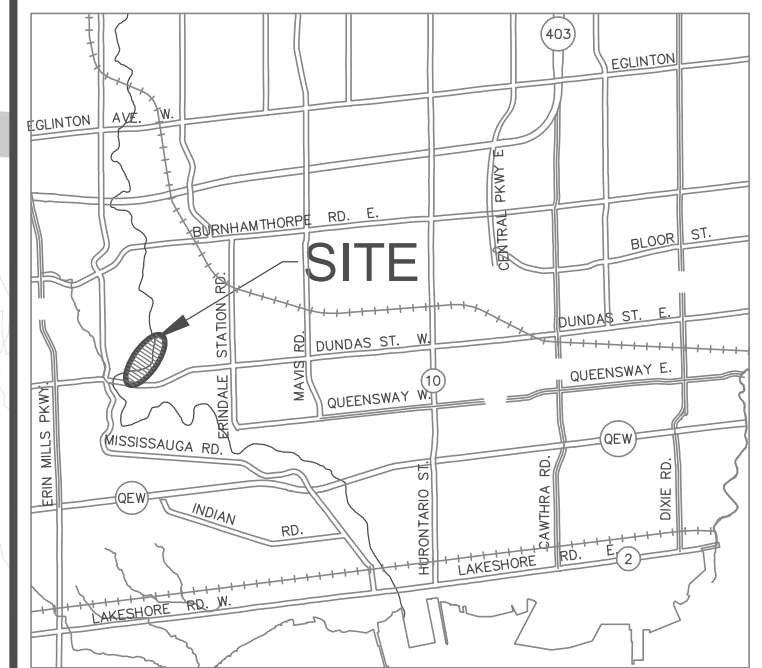
EXISTING 1650mm DIA. CONCP SANITARY SEWER

EXISTING 1350mm

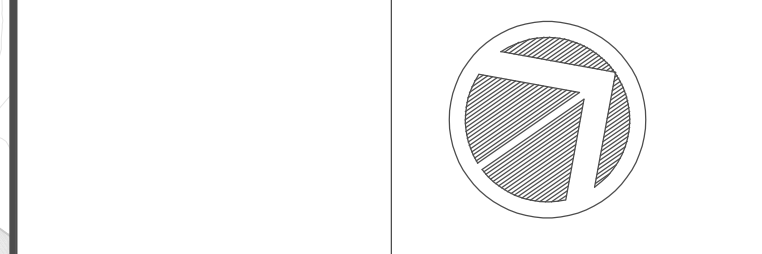
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1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	TOP OF BANK
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN



KEY PLAN  
N.T.S.



**Aquafor Beech**  
Limited  
#4-222-2610 (TOLL FREE) 416-277-1111  
MISSISSAUGA, ONTARIO, L4V 1S2  
PHONE: (905) 629-0099 FAX: (905) 629-0099

**MISSISSAUGA**

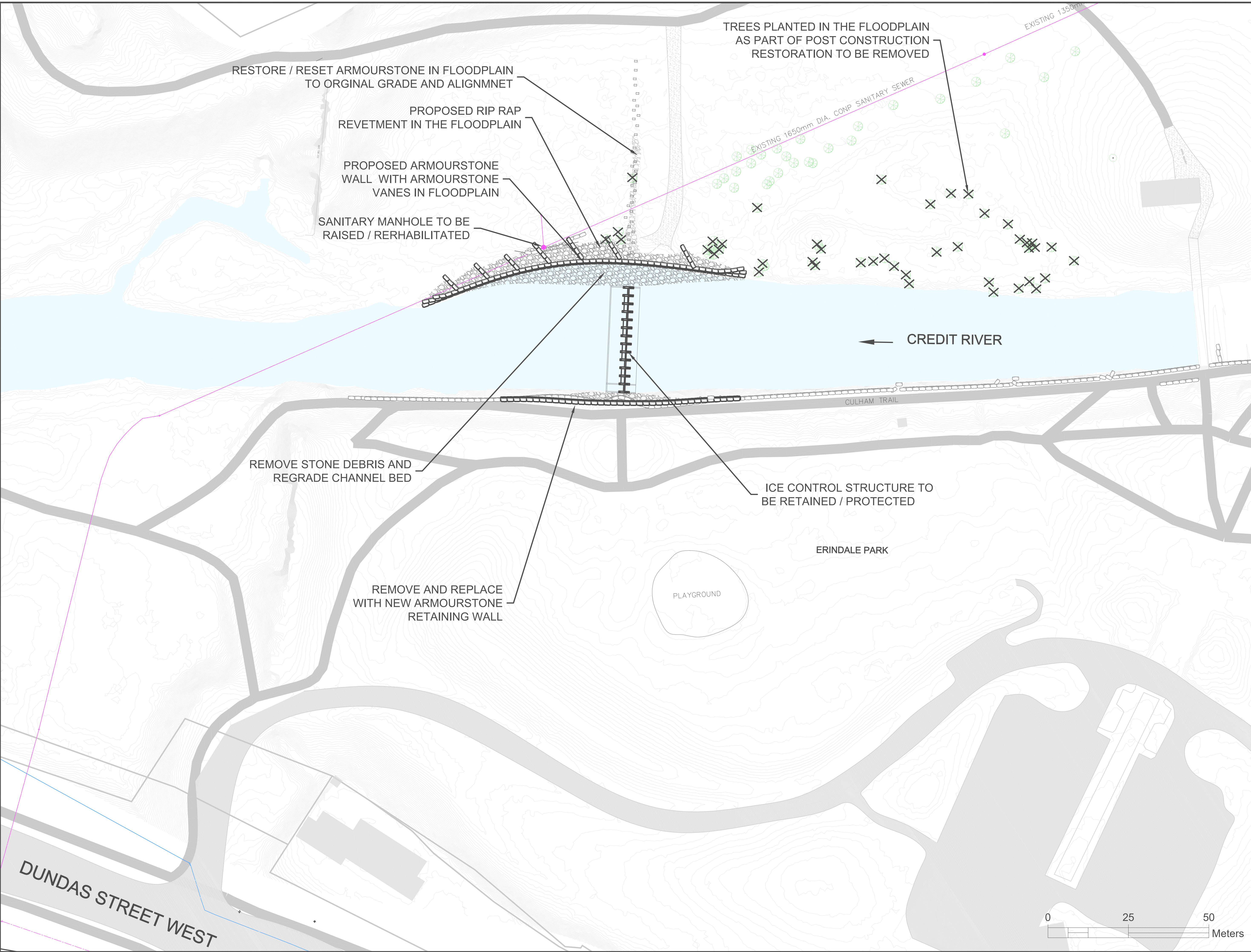
Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**ICE CONTROL STRUCTURE  
ALTERNATIVE 2 - RESTORE TO AS-BUILT  
CONDITIONS**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-2
SCALE:	1:500	DATE:	FEB. 27, 2023	SHEET NO.	2 OF 3







RESTORE / RESET ARMOURSTONE IN FLOODPLAIN TO ORIGINAL GRADE AND ALIGNMENT

PROPOSED RIP RAP REVETMENT IN THE FLOODPLAIN

PROPOSED ARMOURSTONE WALL WITH ARMOURSTONE VANES IN FLOODPLAIN

SANITARY MANHOLE TO BE RAISED / REHABILITATED

TREES PLANTED IN THE FLOODPLAIN AS PART OF POST CONSTRUCTION RESTORATION TO BE REMOVED

EXISTING 1650mm DIA. CONCP SANITARY SEWER

EXISTING 1350mm

← CREDIT RIVER

CULHAM TRAIL

REMOVE STONE DEBRIS AND REGRADE CHANNEL BED

ICE CONTROL STRUCTURE TO BE RETAINED / PROTECTED

ERINDALE PARK

PLAYGROUND

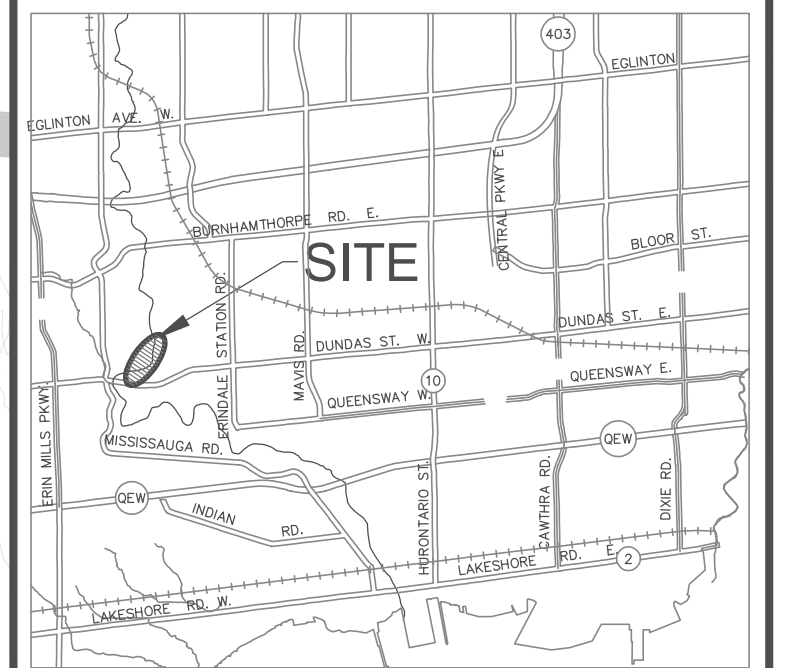
REMOVE AND REPLACE WITH NEW ARMOURSTONE RETAINING WALL

DUNDAS STREET WEST

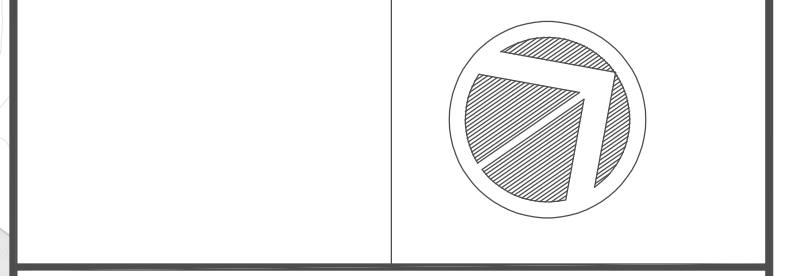
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1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	TOP OF BANK
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	EXISTING TRAIL



KEY PLAN  
N.T.S.



**Aquafor Beech Limited**  
 4-222-2662 (TOLL FREE) 416-291-1111  
 MISSISSAUGA, ONTARIO, L4V 1S2  
 PHONE: (905) 629-0099 FAX: (905) 629-0099

**MISSISSAUGA**

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**ICE CONTROL STRUCTURE  
ALTERNATIVE 3 - ROCK REVETMENT  
AND ARMOURSTONE VANE**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-3
SCALE:	1:500	DATE:	FEB. 27, 2023	SHEET NO.	3 OF 3



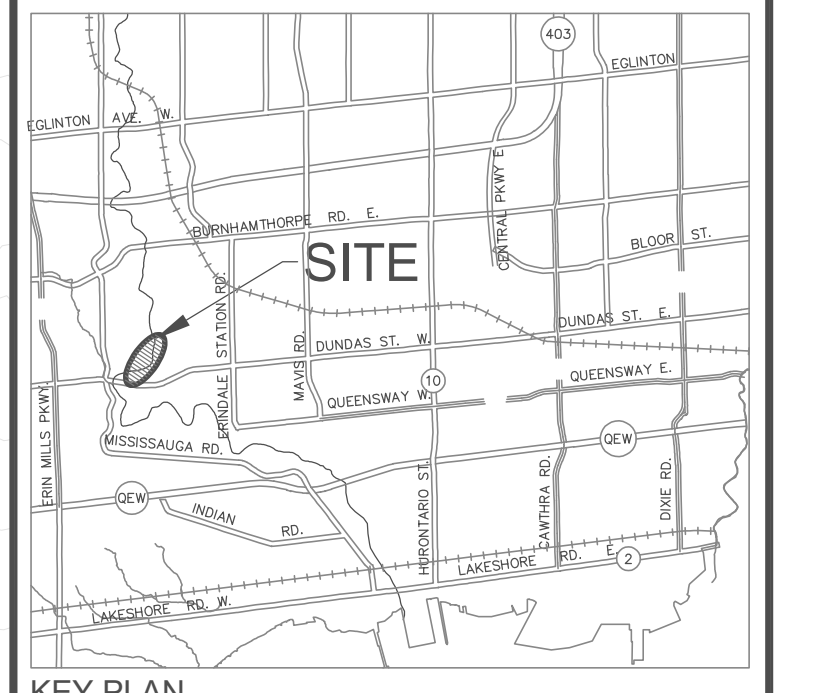




2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	TOP OF BANK
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	EXISTING TRAIL



KEY PLAN  
N.T.S.

**Aquafor Beech Limited**  
4-222-2610 (TOLL FREE) 905-881-1111  
 MISSISSAUGA, ONTARIO, L4Y 1S2  
 PHONE: (905) 629-0099 FAX: (905) 629-0099

**MISSISSAUGA**

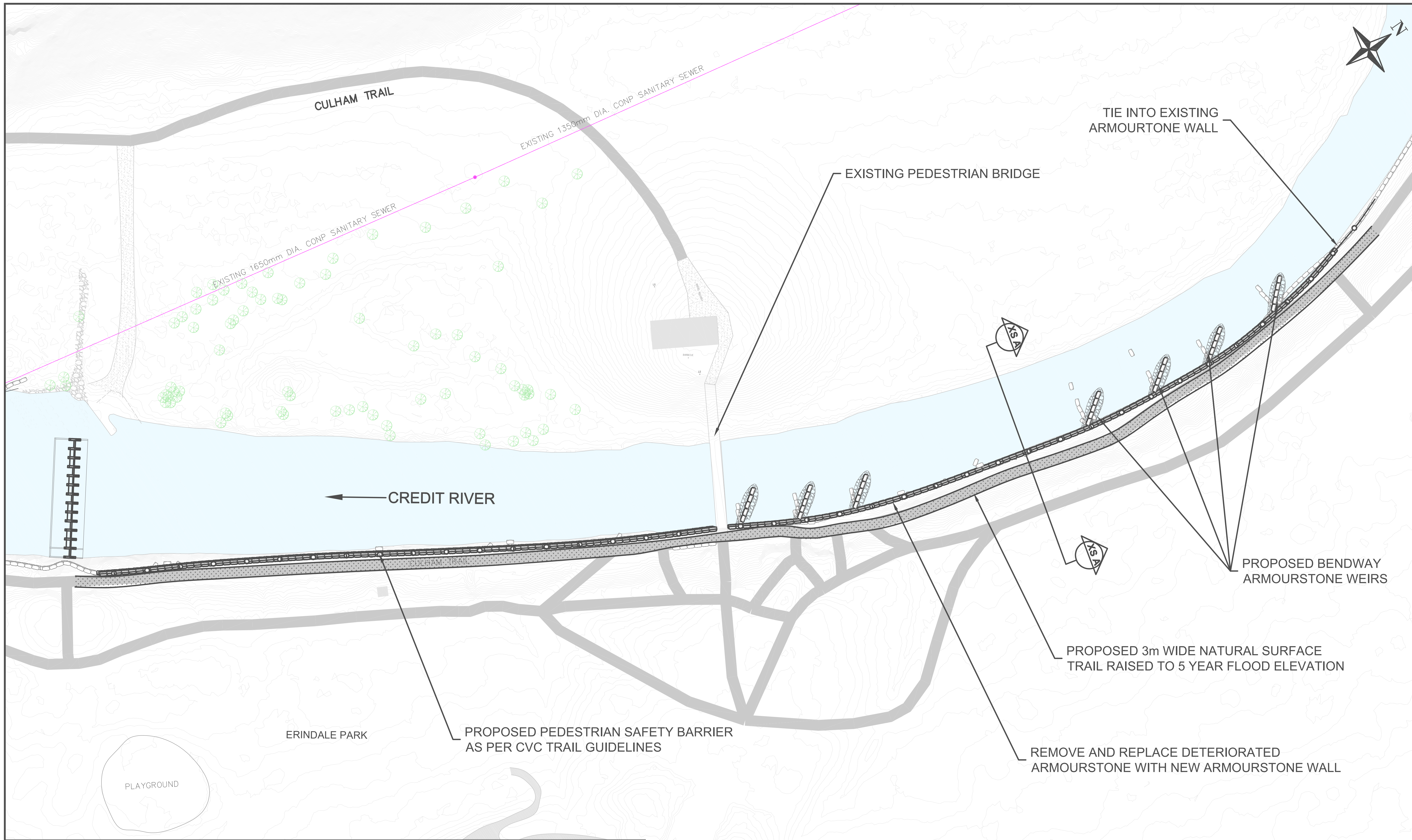
Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**ERINDALE PARK BANK RESTORATION  
ALTERNATIVE 1 - DO NOTHING**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:500	DATE:	FEB. 27, 2023	SHEET NO.	1 OF 3



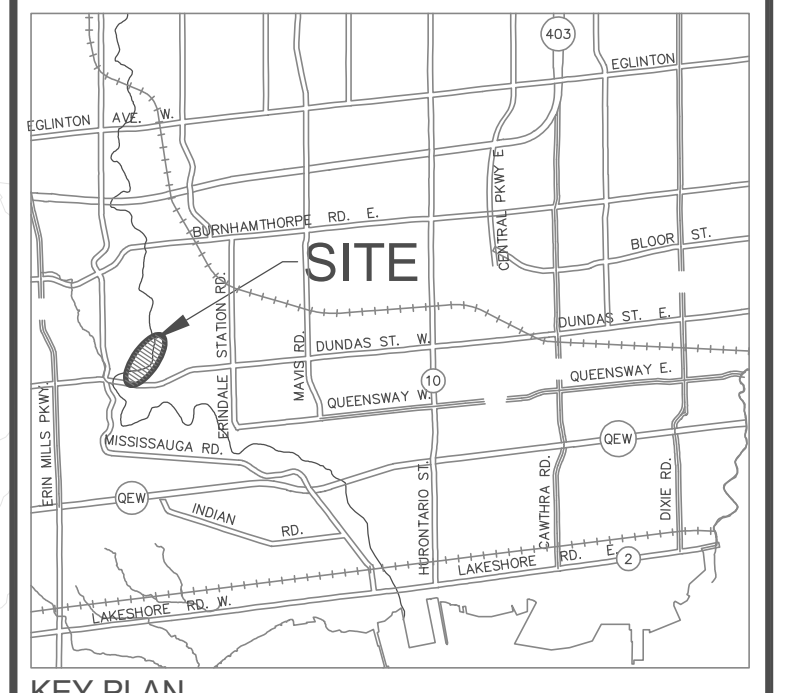




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1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DATE	REVISIONS	CHECKED

**LEGEND**

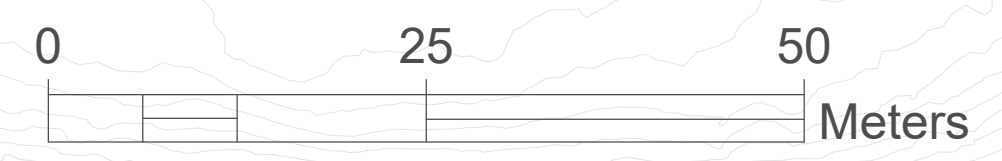
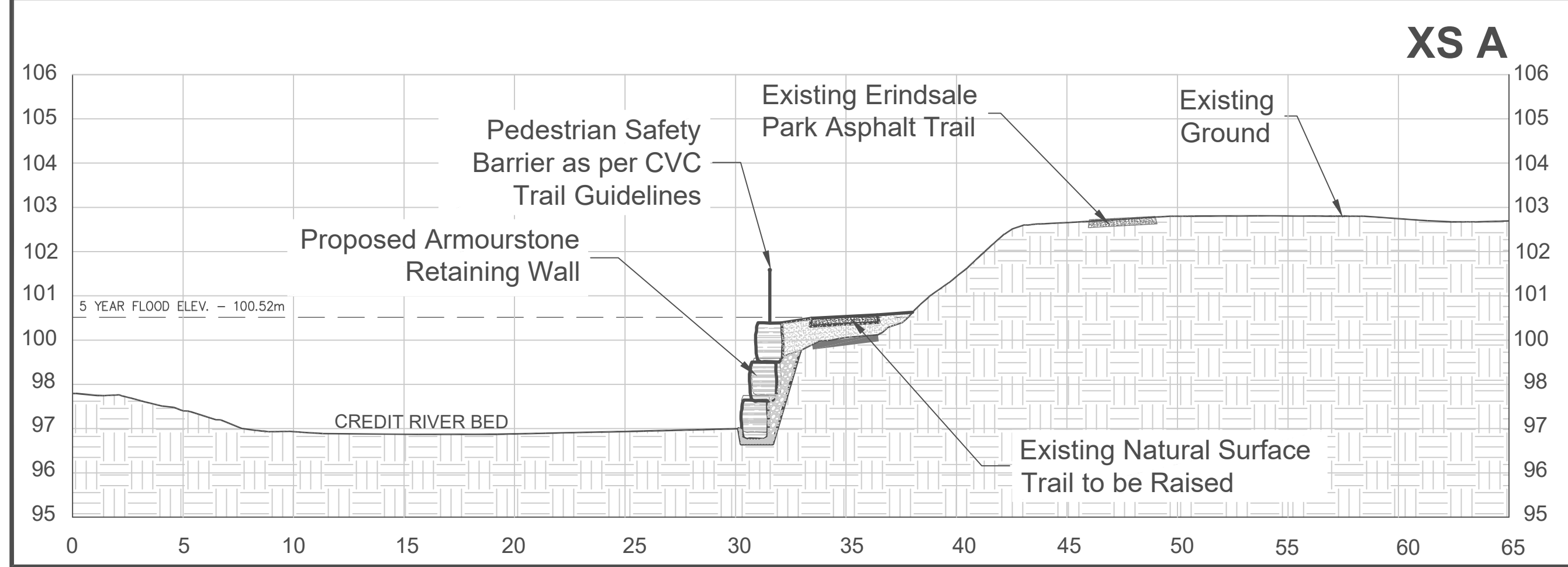
- PROPERTY/BUILDING LINE
- WATERCOURSE
- TOP OF BANK
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- EXISTING TRAIL



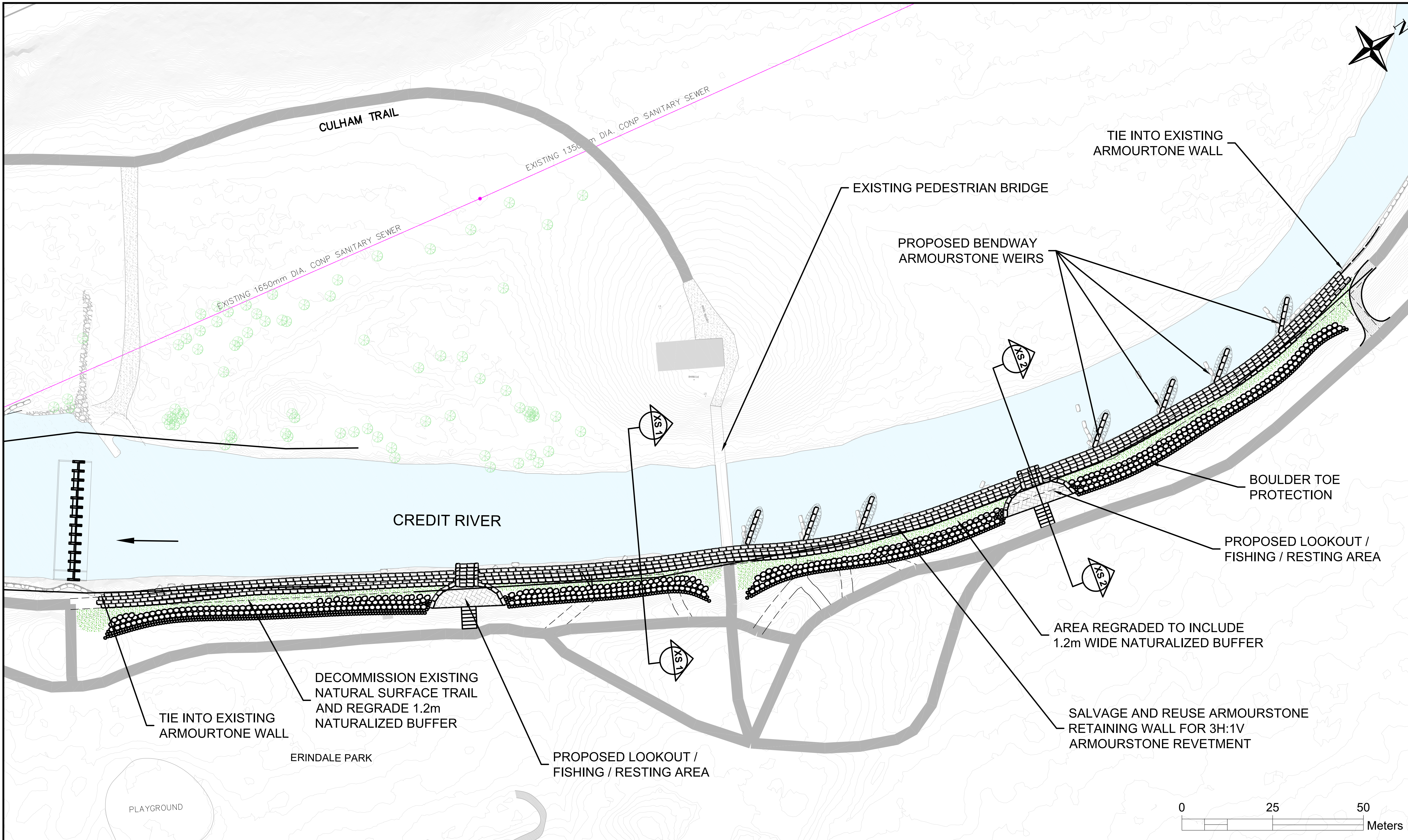
Project Name:  
**Credit River Erosion Control From Dundas Street West to Hwy 403**

Drawing Title:  
**ERINDALE PARK BANK RESTORATION ALTERNATIVE 2 - ARMOURSTONE WALL AND WEIRS**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.:	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.:	GP-2
SCALE:	1:500	DATE:	FEB. 27, 2023	SHEET NO.:	2 OF 3



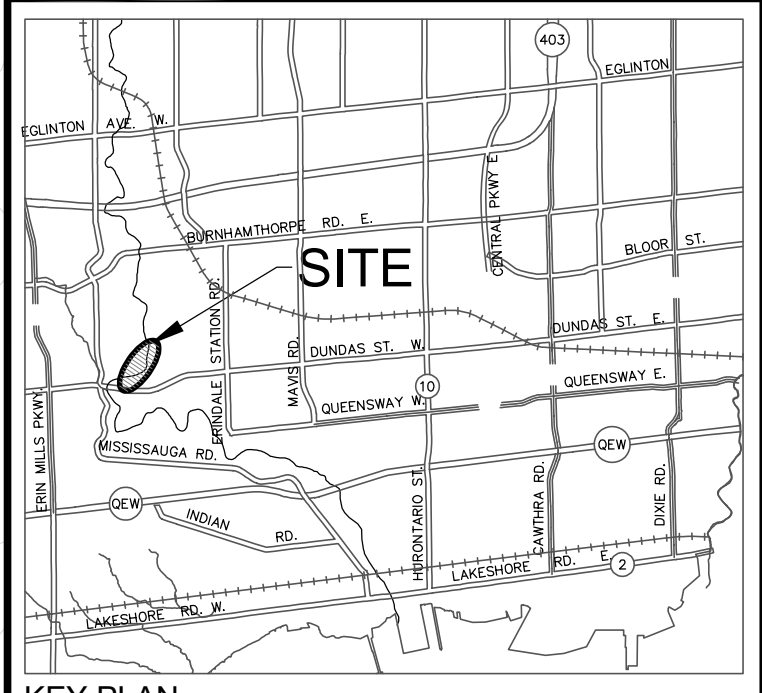




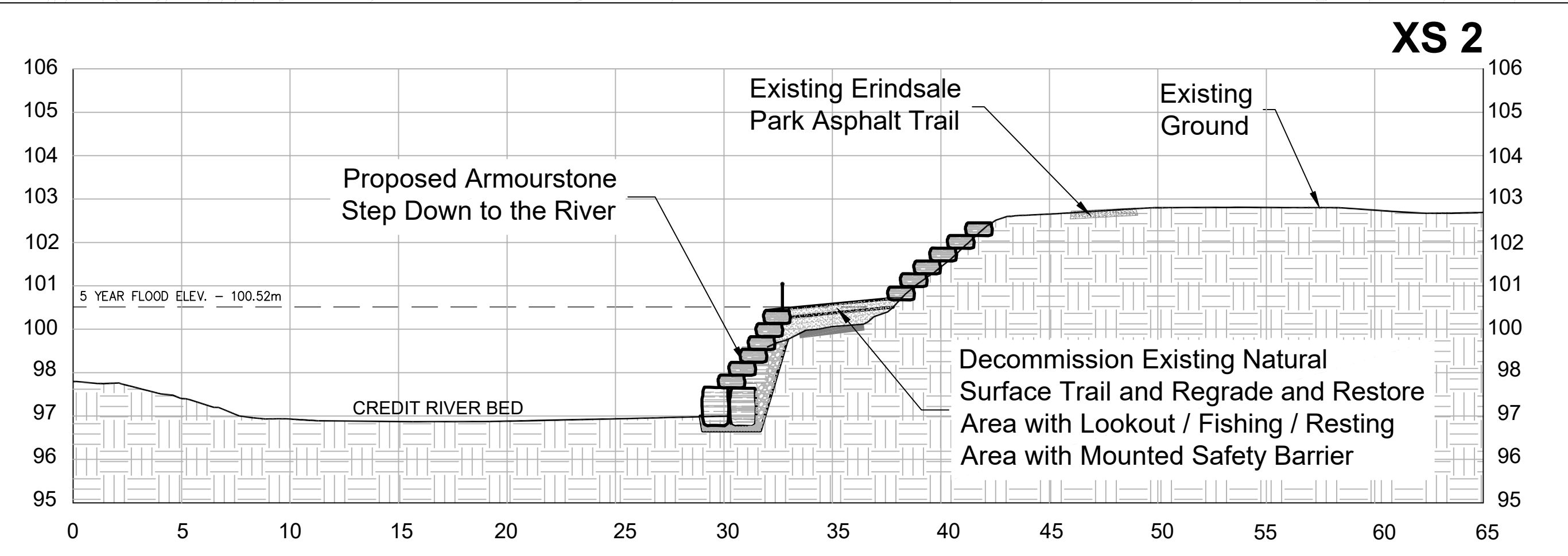
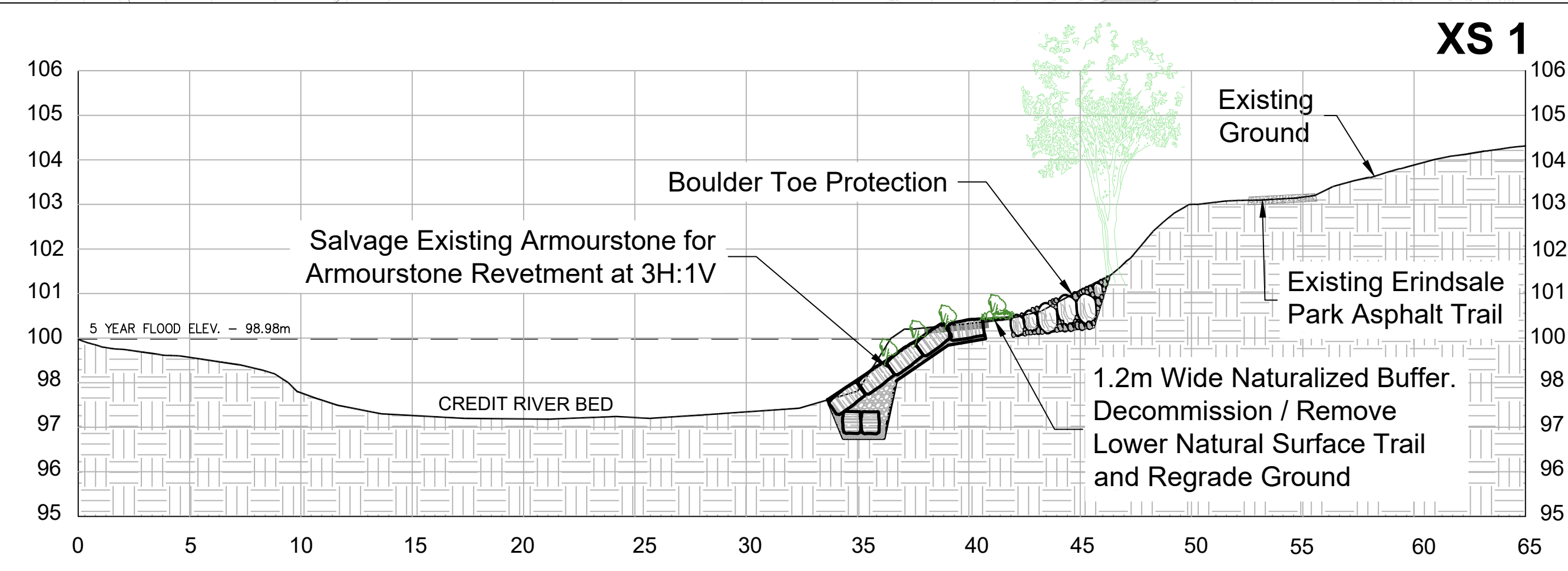
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2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/BUILDING LINE
- WATERCOURSE
- TOP OF BANK
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- EXISTING TRAIL



KEY PLAN  
N.T.S.

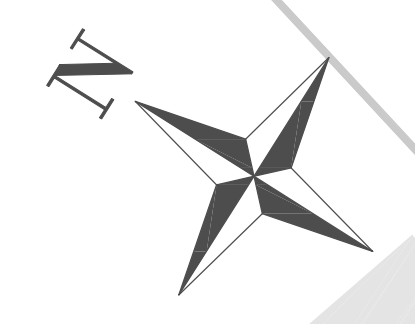
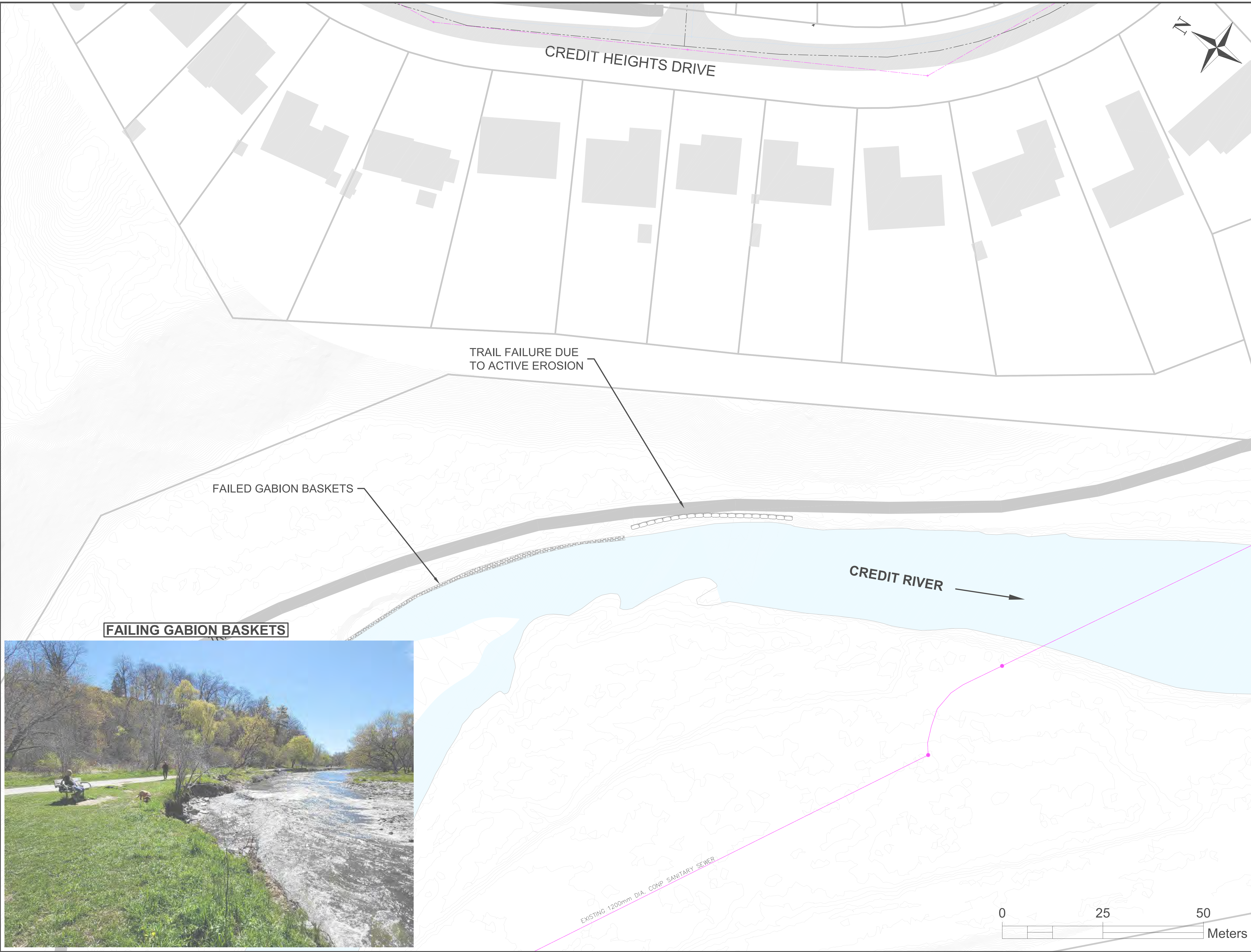


Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**ERINDALE PARK BANK RESTORATION  
ALTERNATIVE 3 - ARMOURSTONE WALL,  
WEIRS AND TRAIL DECOMMISSIONING**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-3
SCALE:	1:500	DATE:	APRIL 12, 2023	SHEET NO.	3 OF 3

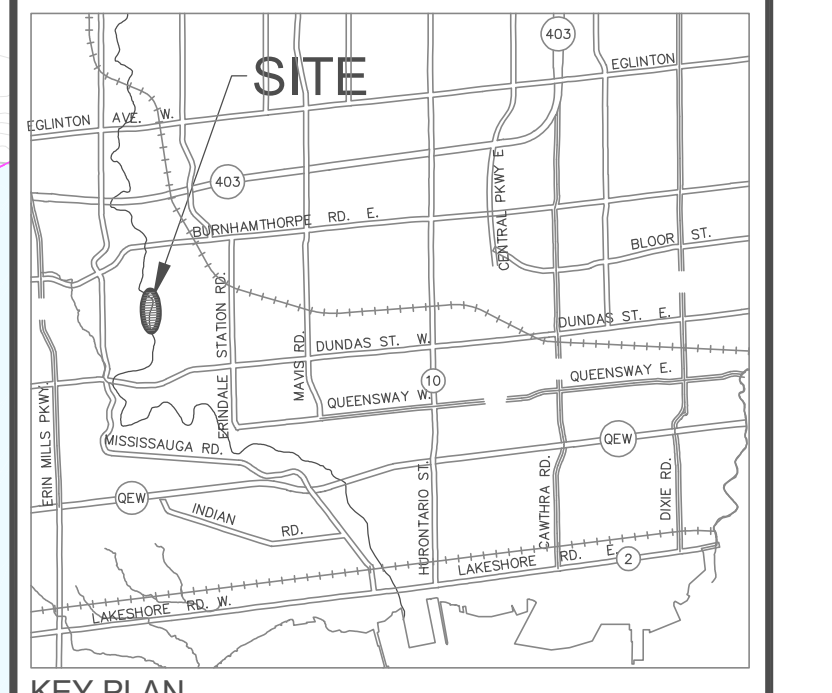




2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	TOP OF BANK
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	EXISTING TRAIL



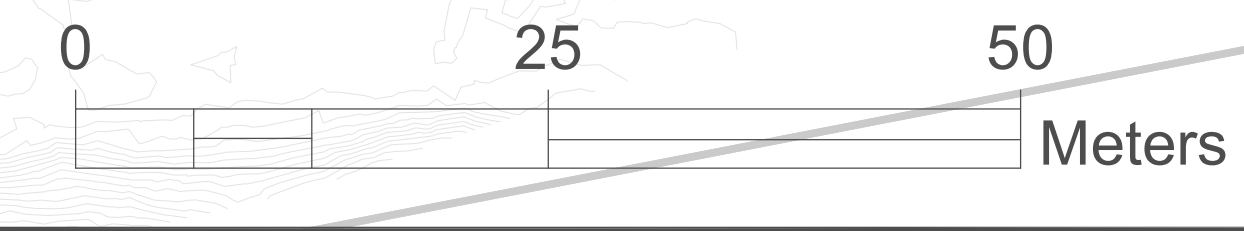
**Aquafor Beech Limited**  
8-222 2ND ST/VALE RD  
 MISSISSAUGA, ONTARIO, L4V 1S2  
 PHONE: (905) 629-0099, FAX: (905) 629-0099



Project Name:  
**Credit River Erosion Control  
 From Dundas Street West to Hwy 403**

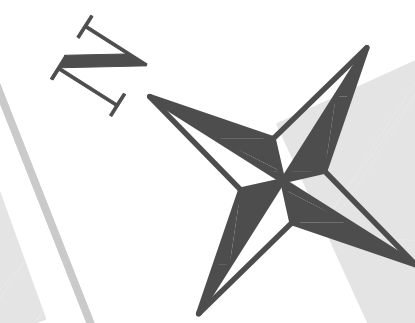
Drawing Title:  
**CREDIT HEIGHTS BANK RESTORATION  
 ALTERNATIVE 1 - DO NOTHING**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:400	DATE:	FEB. 27, 2023	SHEET NO.	1 OF 3





CREDIT HEIGHTS DRIVE



2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	TOP OF BANK
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	EXISTING TRAIL

REALIGN TRAIL BEYOND 5 YEAR FLOODPLAIN.  
3m WIDE NATURAL SURFACE TRAIL WITH  
PEDESTRIAN SAFETY BARRIER

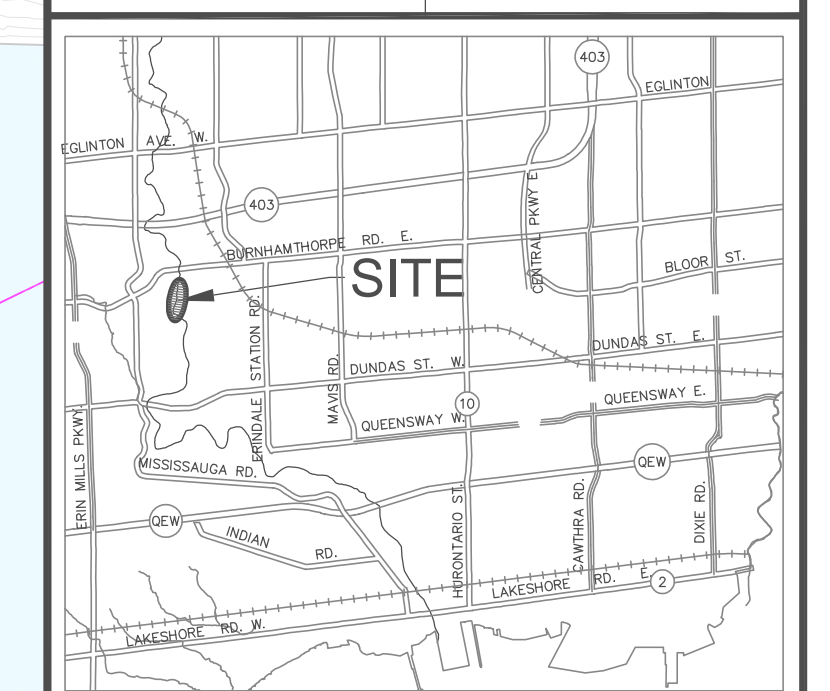
REGRADE AREA

CREDIT RIVER

TIE INTO EXISTING  
ARMOURSTONE  
RETAINING WALL

REPLACE FAILED GABIONS WITH  
ARMOURSTONE  
RETAINING WALL

EXISTING 1200mm DIA. COMP SANITARY SEWER



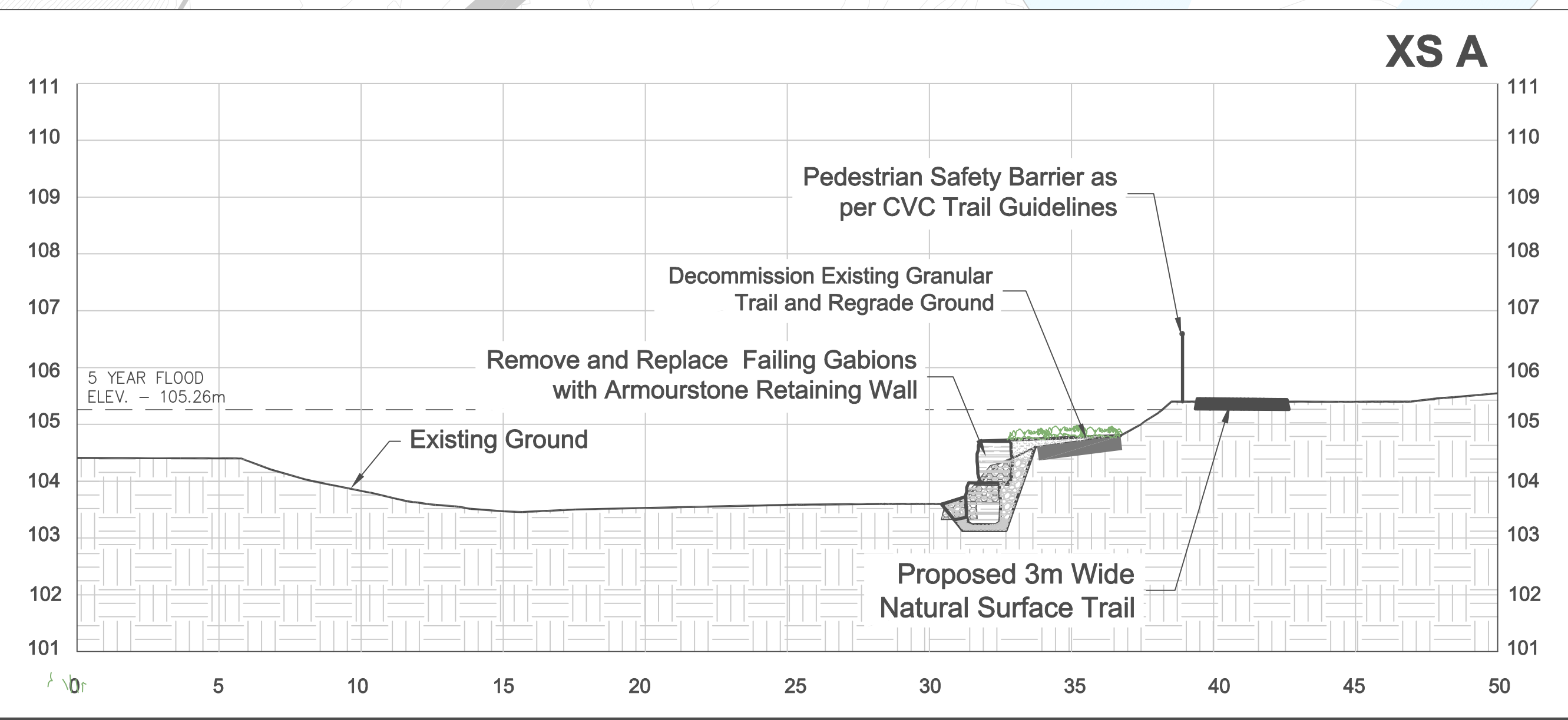
KEY PLAN  
N.T.S.



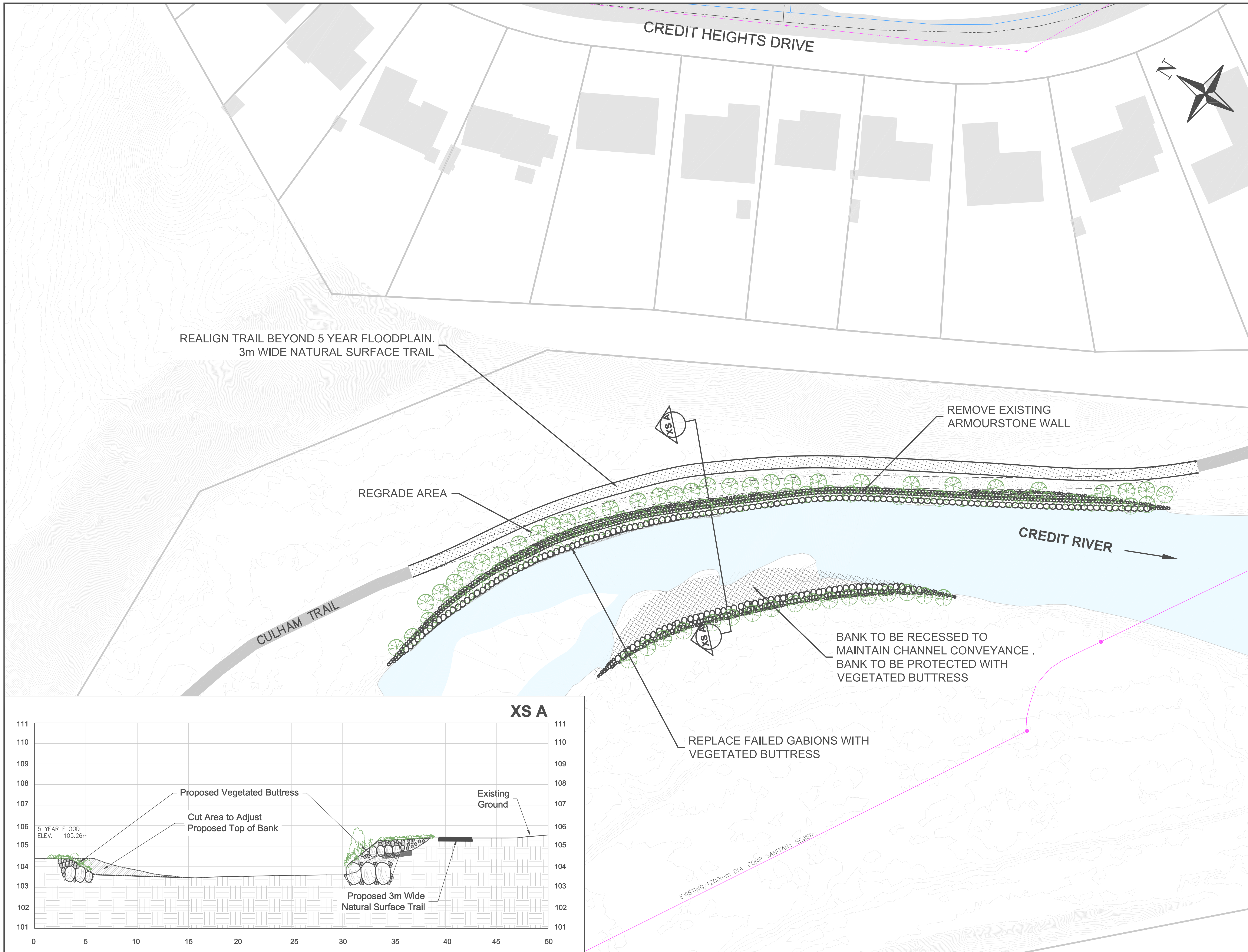
Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CREDIT HEIGHTS BANK RESTORATION  
ALTERNATIVE 2 - ARMOURSTONE WALL  
AND TRAIL REALIGNMENT**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
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SCALE:	1:400	DATE:	FEB. 27, 2023	SHEET NO.	2 OF 3



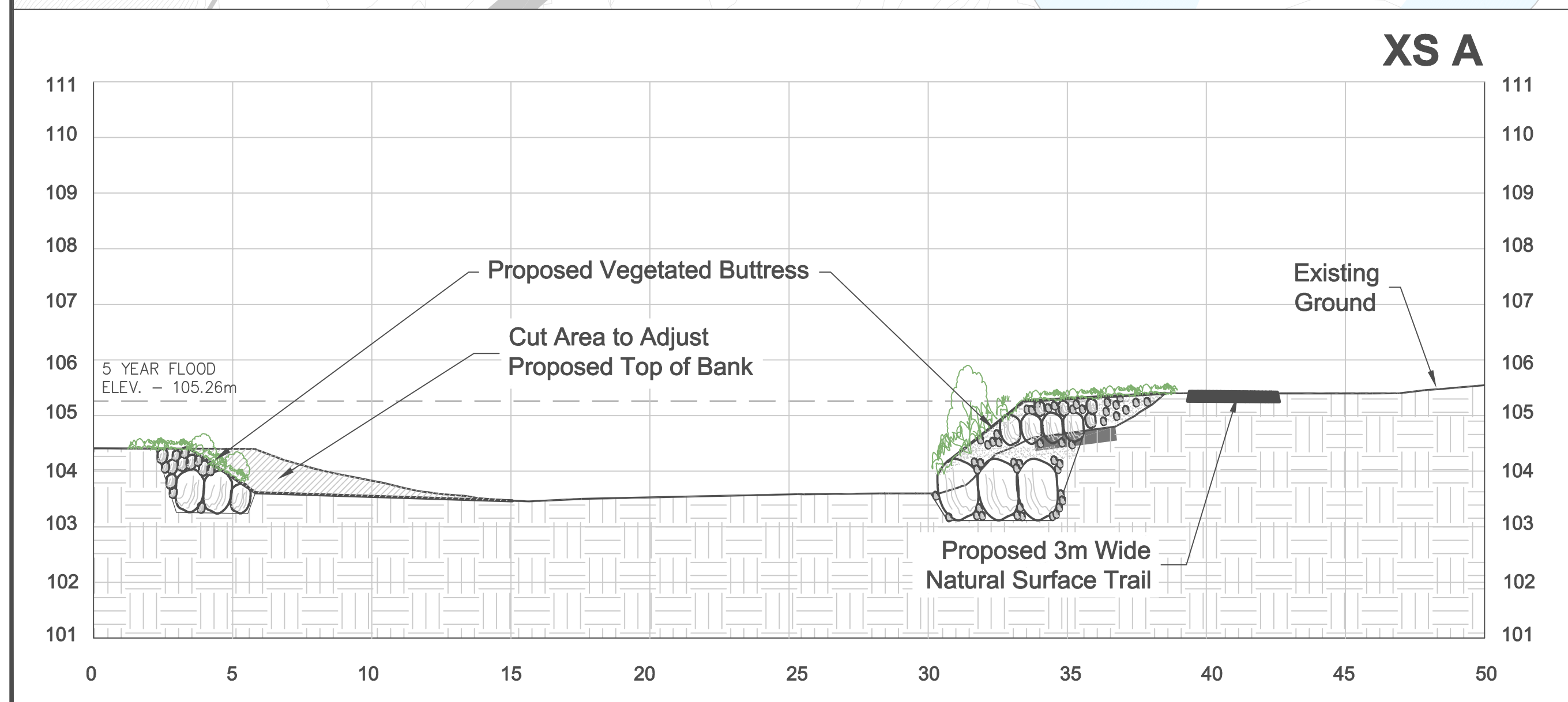
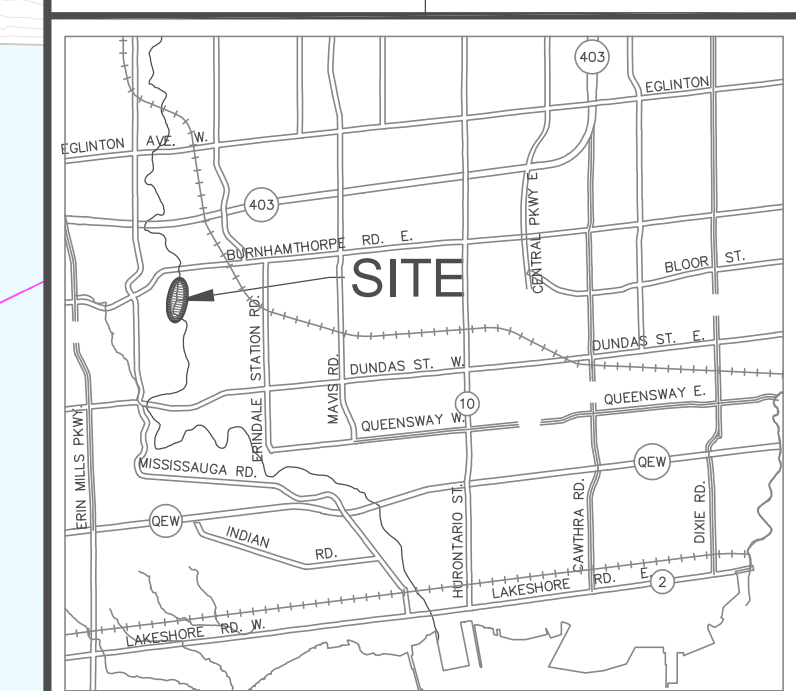




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1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/BUILDING LINE
- WATERCOURSE
- TOP OF BANK
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- EXISTING TRAIL



Aquafor Beech Limited

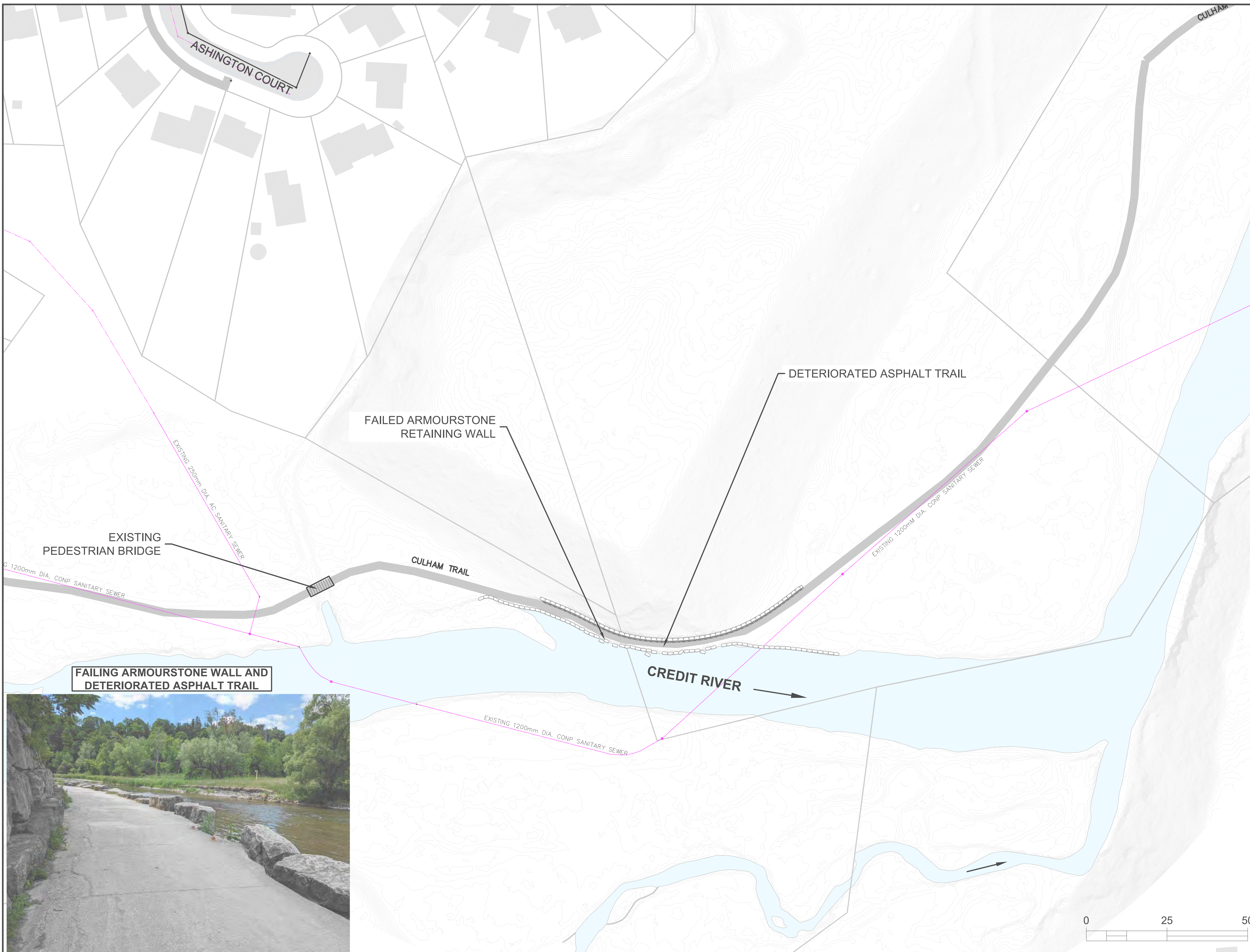
MISSISSAUGA

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CREDIT HEIGHTS BANK RESTORATION  
ALTERNATIVE 3 - VEGETATED  
BUTTRESS AND TRAIL REALIGNMENT**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-2
SCALE:	1:400	DATE:	FEB. 27, 2023	SHEET NO.	3 OF 3

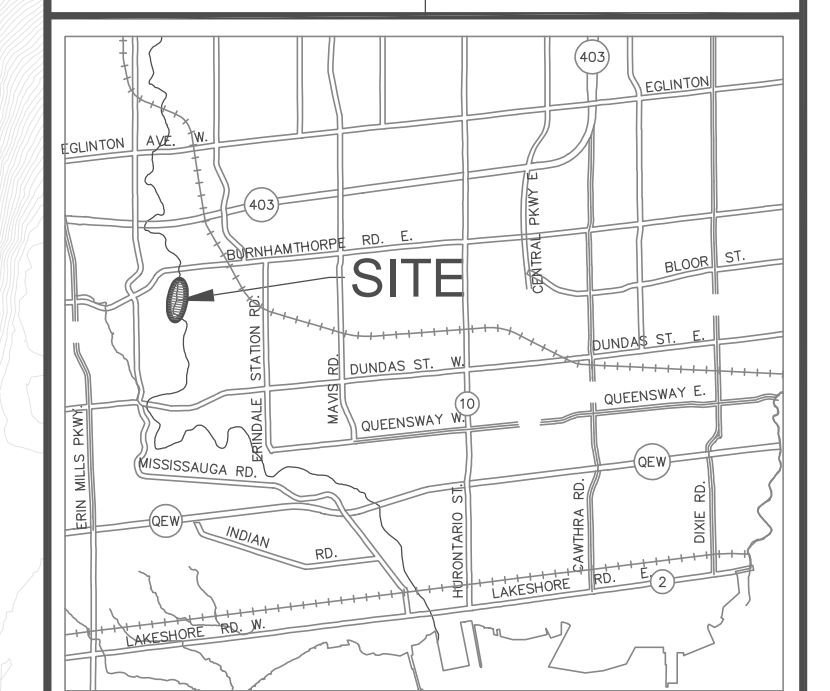




2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	TOP OF BANK
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	EXISTING TRAIL



KEY PLAN  
N.T.S.



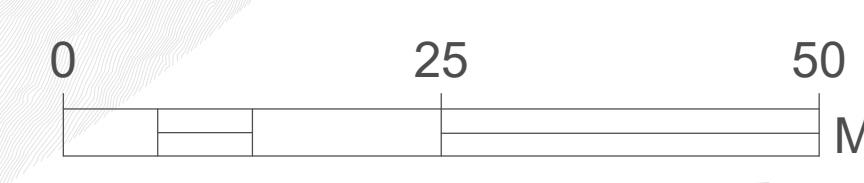
Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**ASHINGTON COURT RETAINING WALL  
ALTERNATIVE 1 - DO NOTHING**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:600	DATE:	FEB. 27, 2023	SHEET NO.	1 OF 3



**FADING ARMOURSTONE WALL AND  
DETERIORATED ASPHALT TRAIL**

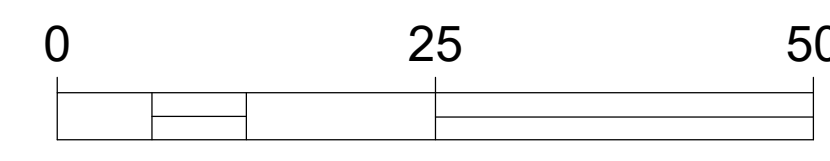
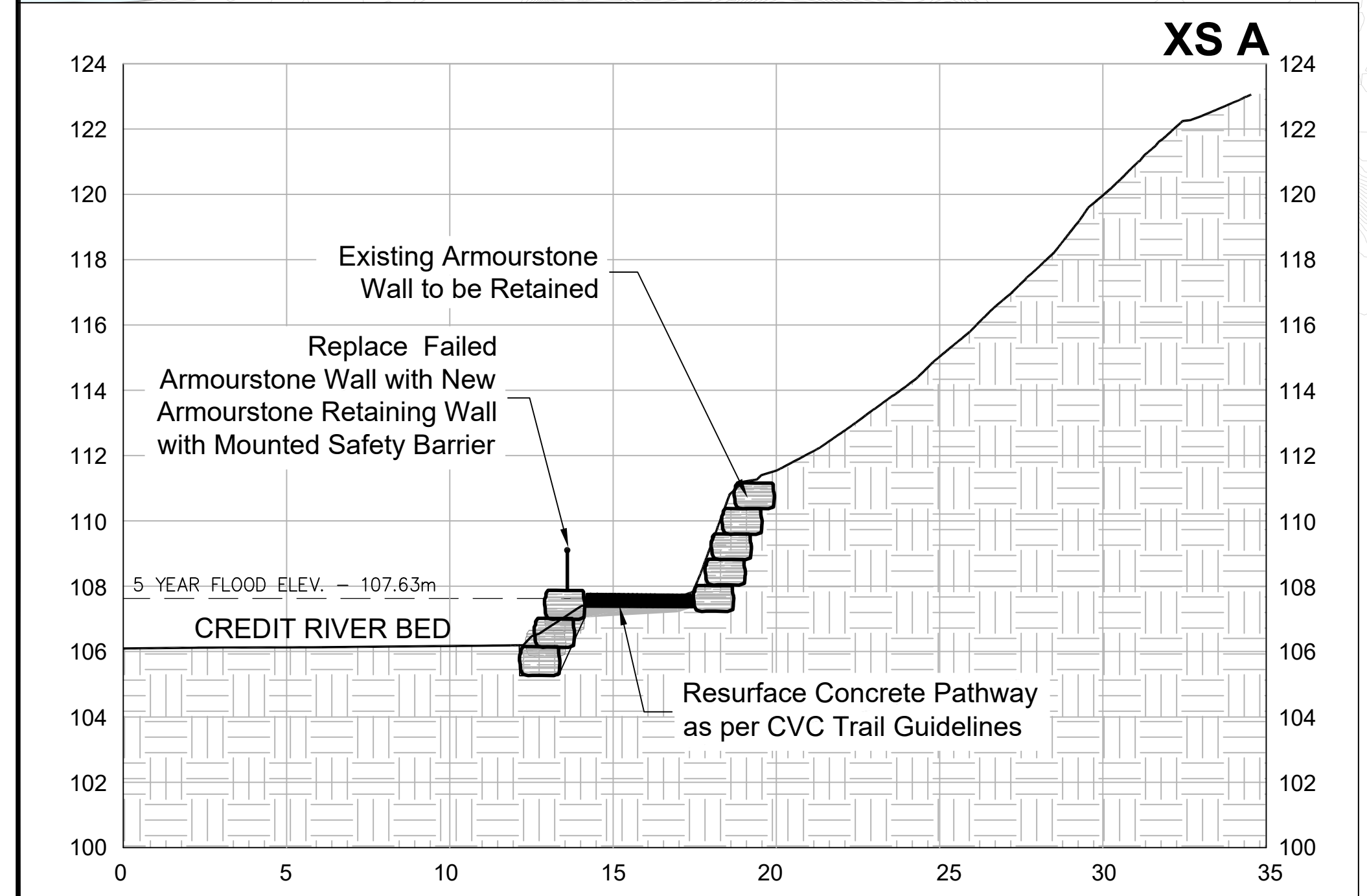
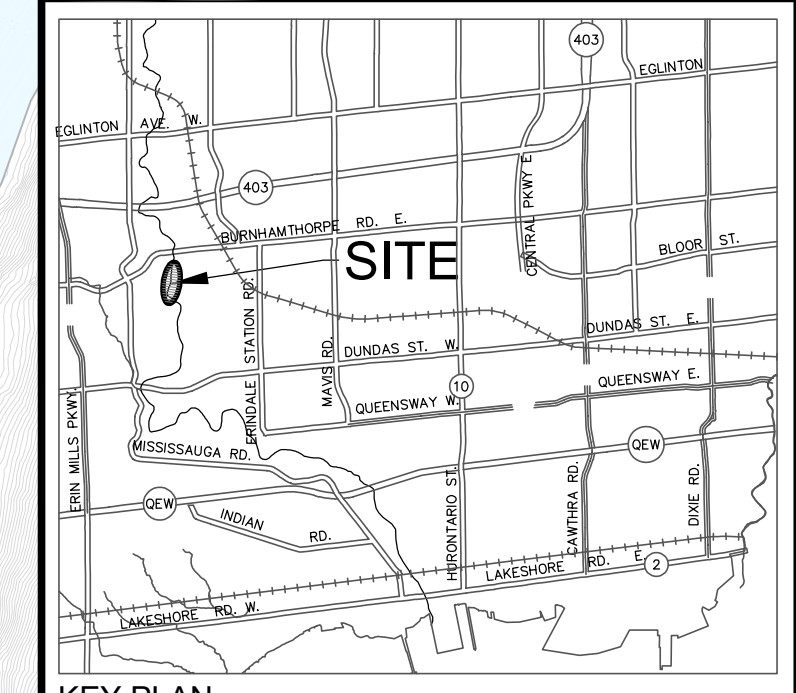
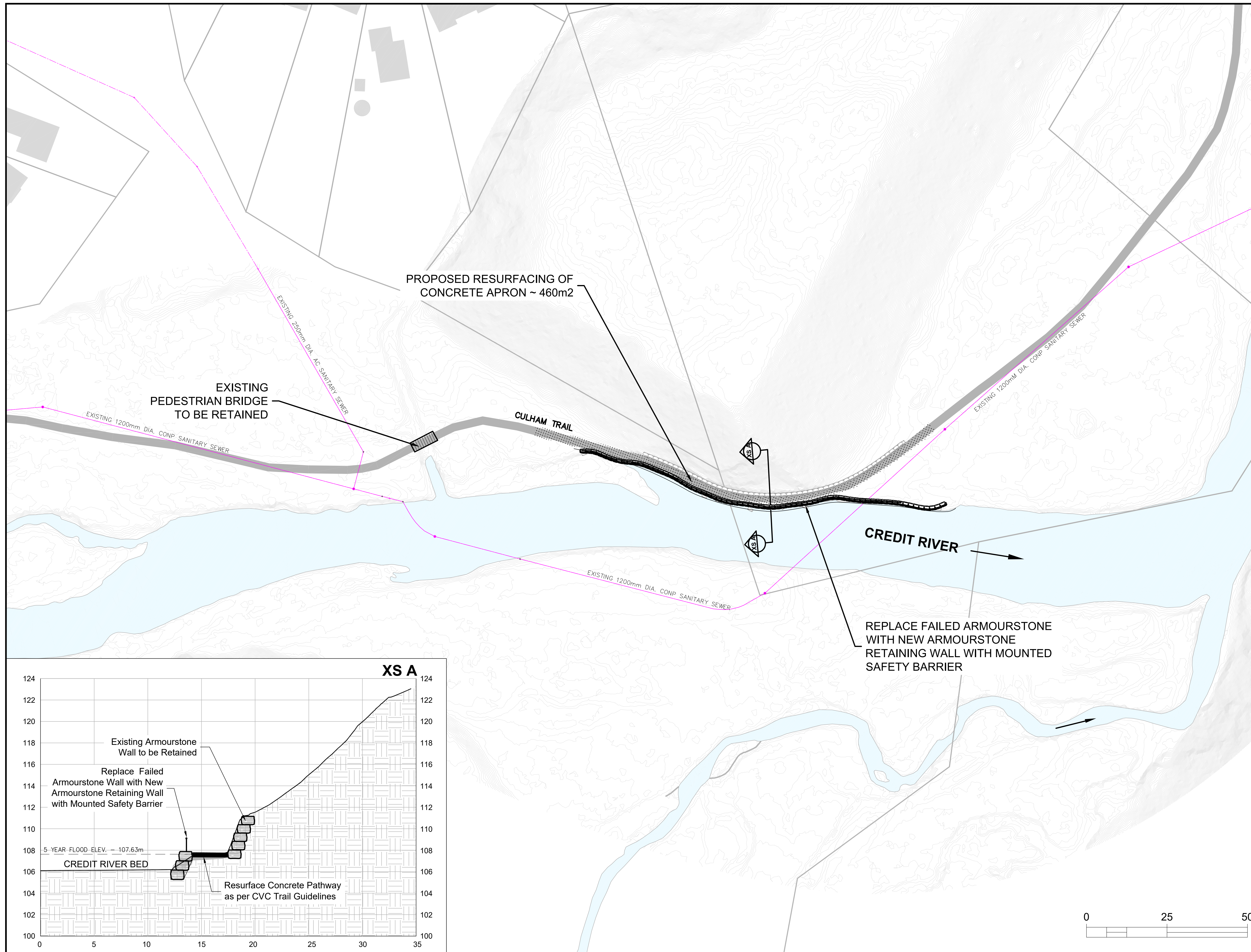




3	R.A.	12/04/2023	ISSUED FOR REVIEW	RA
2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- TOP OF BANK
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- EXISTING TRAIL



Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**ASHINGTON COURT RETAINING WALL  
ALTERNATIVE 2 - ARMOURSTONE WALL  
AND TRAIL RESURFACING**

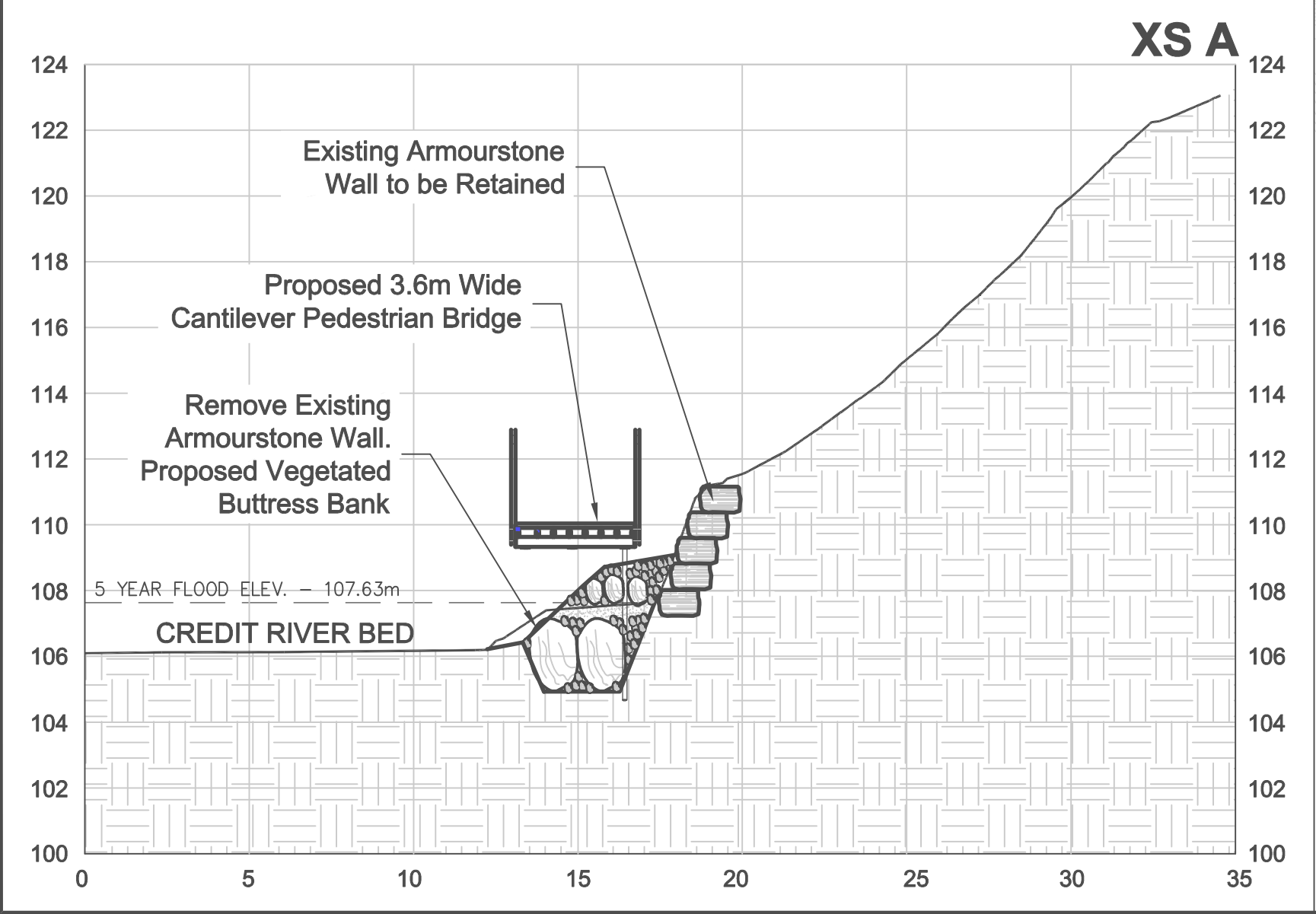
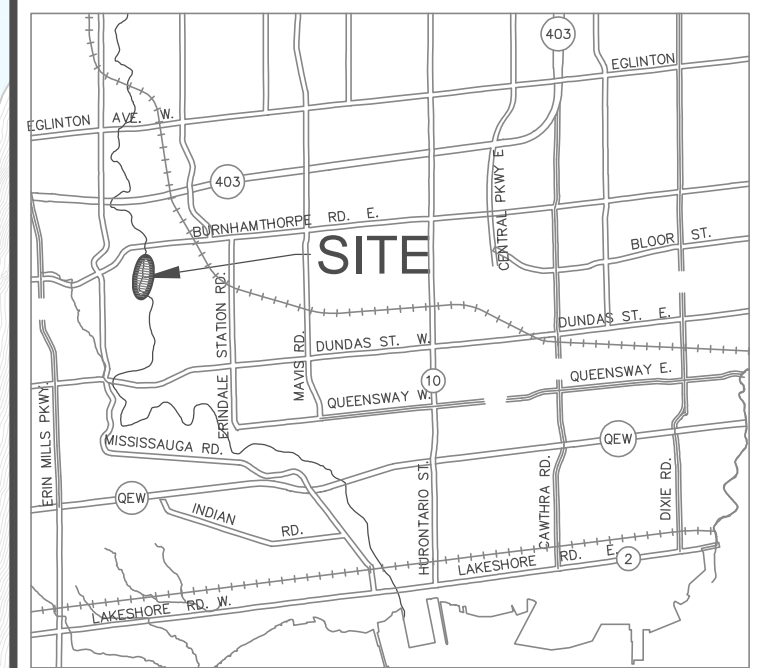
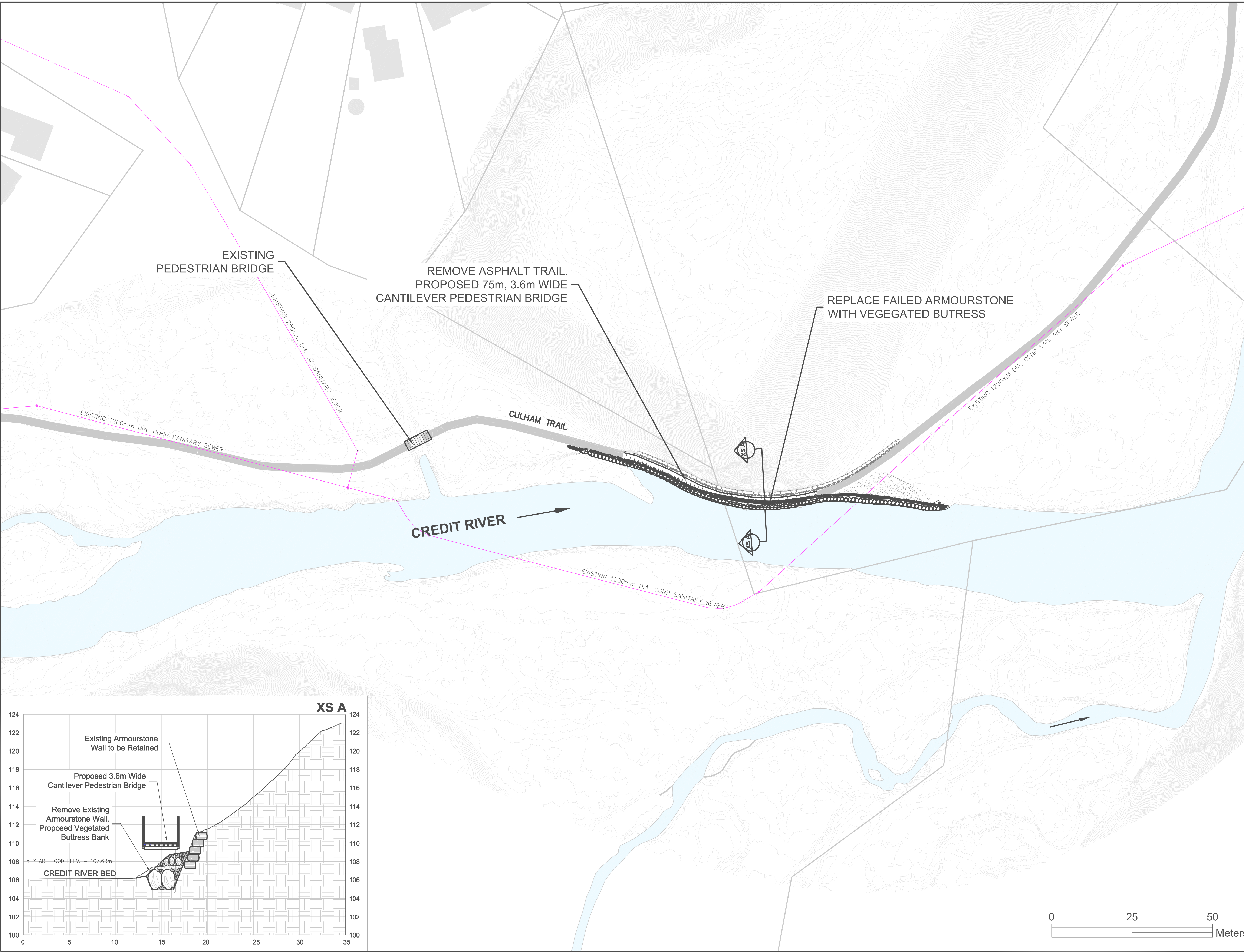
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SCALE:	1:600	DATE:	APRIL 12, 2023	SHEET NO.	2 OF 3



2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	TOP OF BANK
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	EXISTING TRAIL



Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**ASHINGTON COURT RETAINING WALL  
ALTERNATIVE 3 - VEGETATED  
BUTRESS AND CANTILEVER BRIDGE**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-3
SCALE:	1:600	DATE:	FEB. 27, 2023	SHEET NO.	3 OF 3





2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

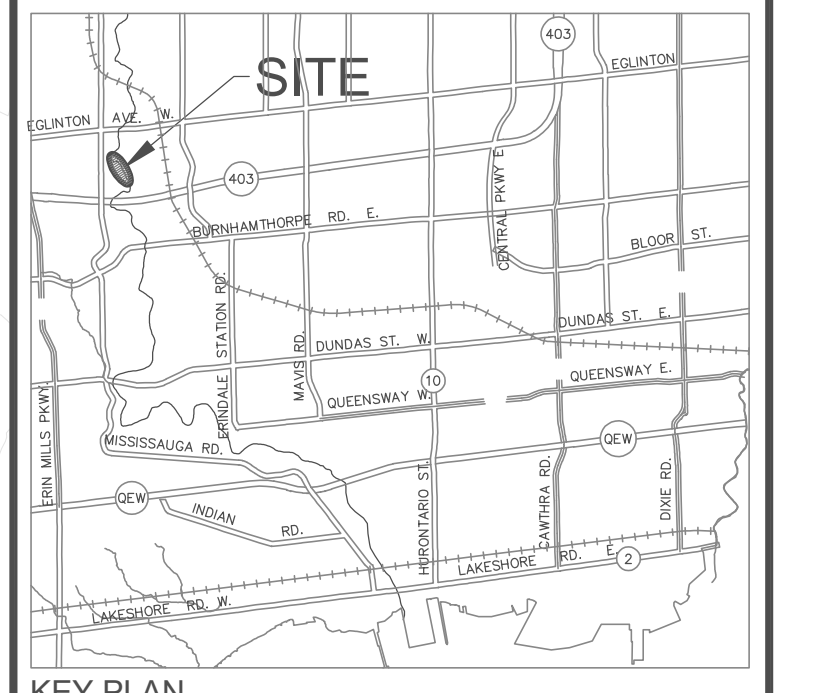
**LEGEND**

- PROPERTY/BUILDING LINE
- WATERCOURSE
- TOP OF BANK
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- EXISTING TRAIL

**ACTIVE SLOPE EROSION**



ACTIVE SLOPE EROSION



KEY PLAN N.T.S.



Project Name: **Credit River Erosion Control From Dundas Street West to Hwy 403**

Drawing Title: **SUMMIT COURT SLOPE ALTERNATIVE 1 - DO NOTHING**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:500	DATE:	FEB. 27, 2023	SHEET NO.	1 OF 3



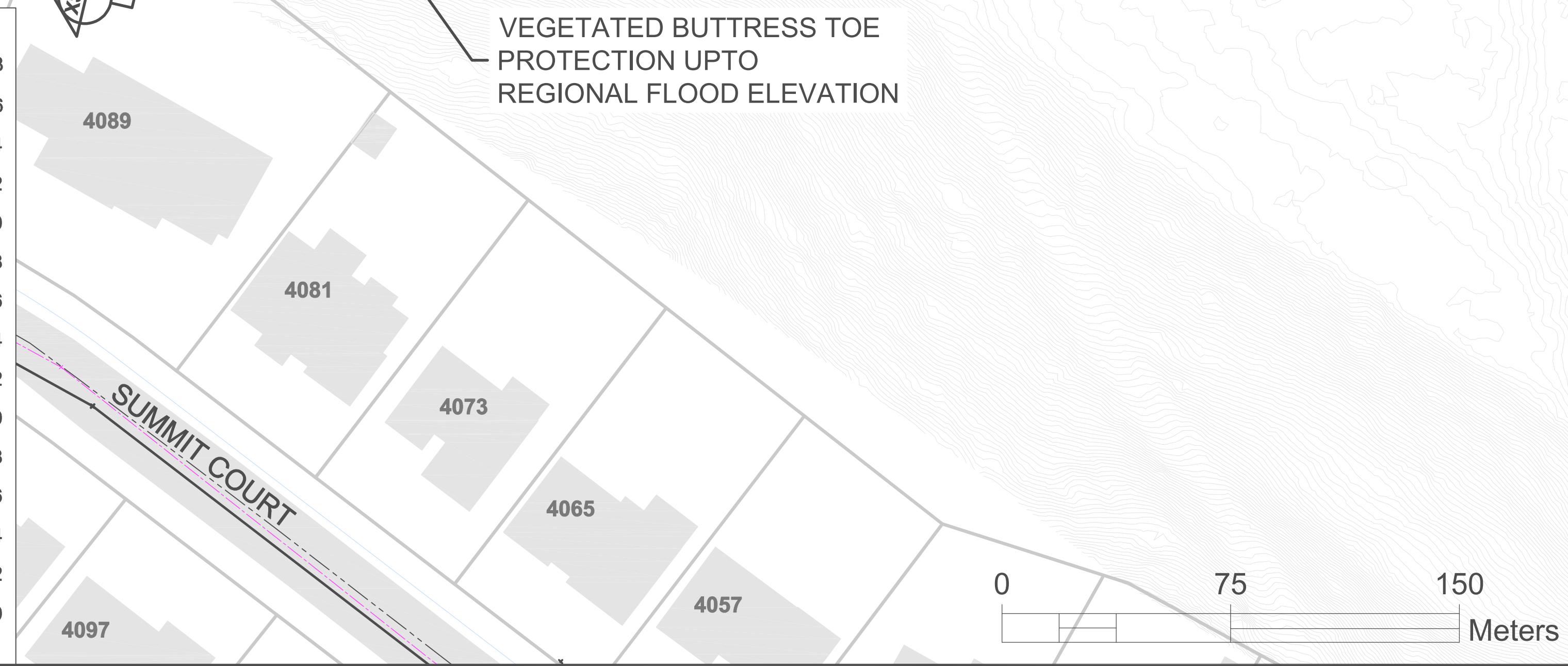
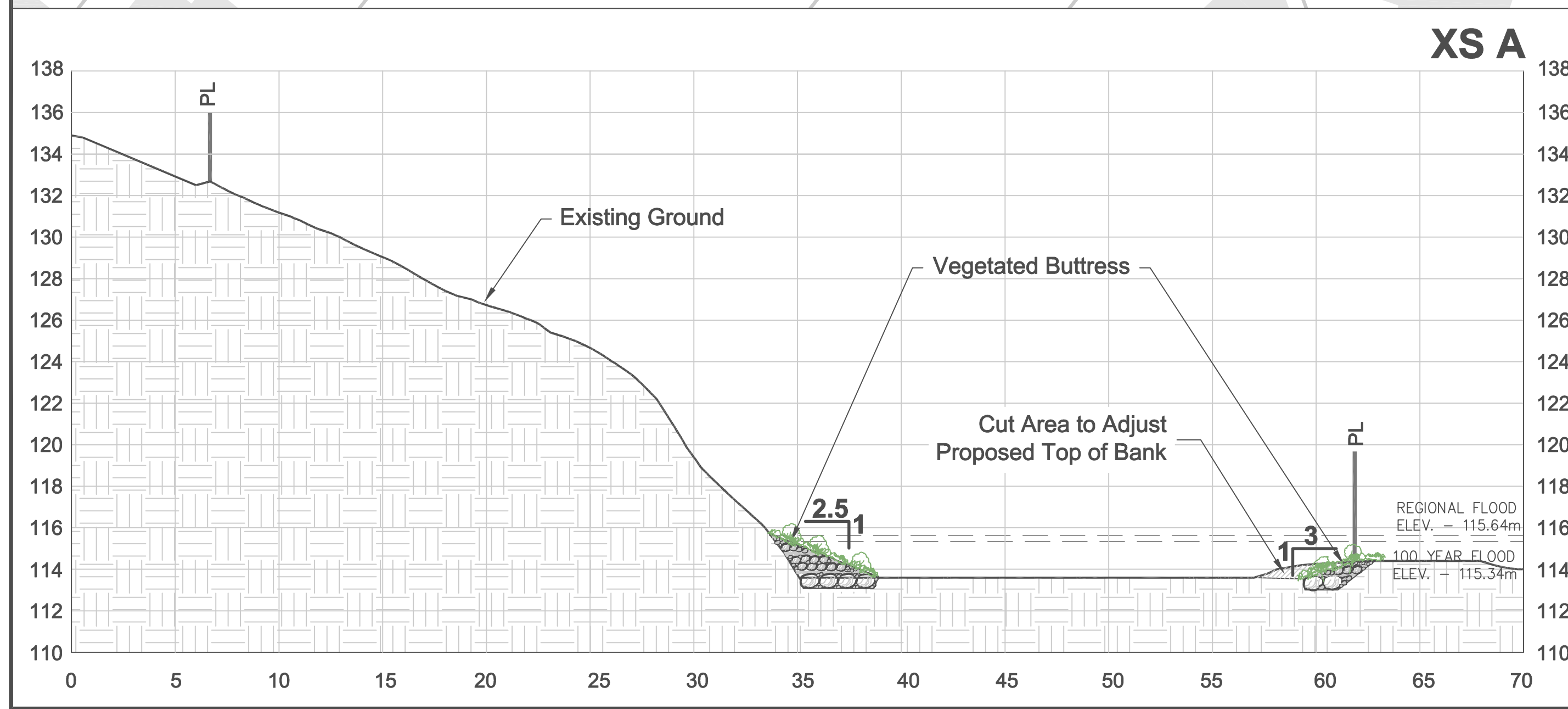




2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/BUILDING LINE
- WATERCOURSE
- TOP OF BANK
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- EXISTING TRAIL



Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**SUMMIT COURT SLOPE  
ALTERNATIVE 2 - VEGETATED  
BUTTRESS & CHANNEL REALIGNMENT**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:500	DATE:	FEB. 27, 2023	SHEET NO.	2 OF 3

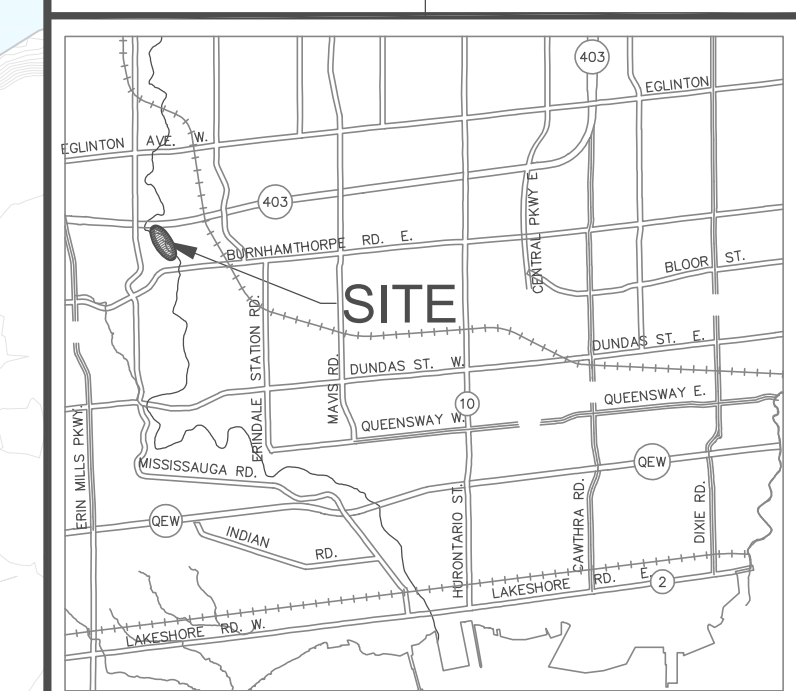




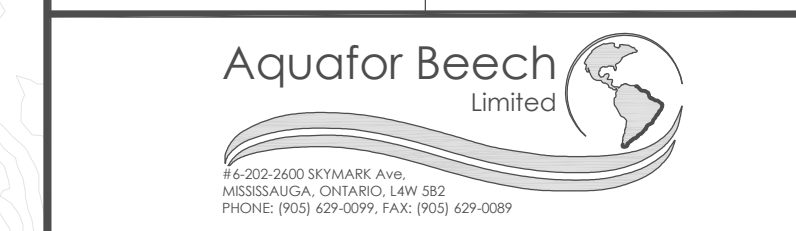
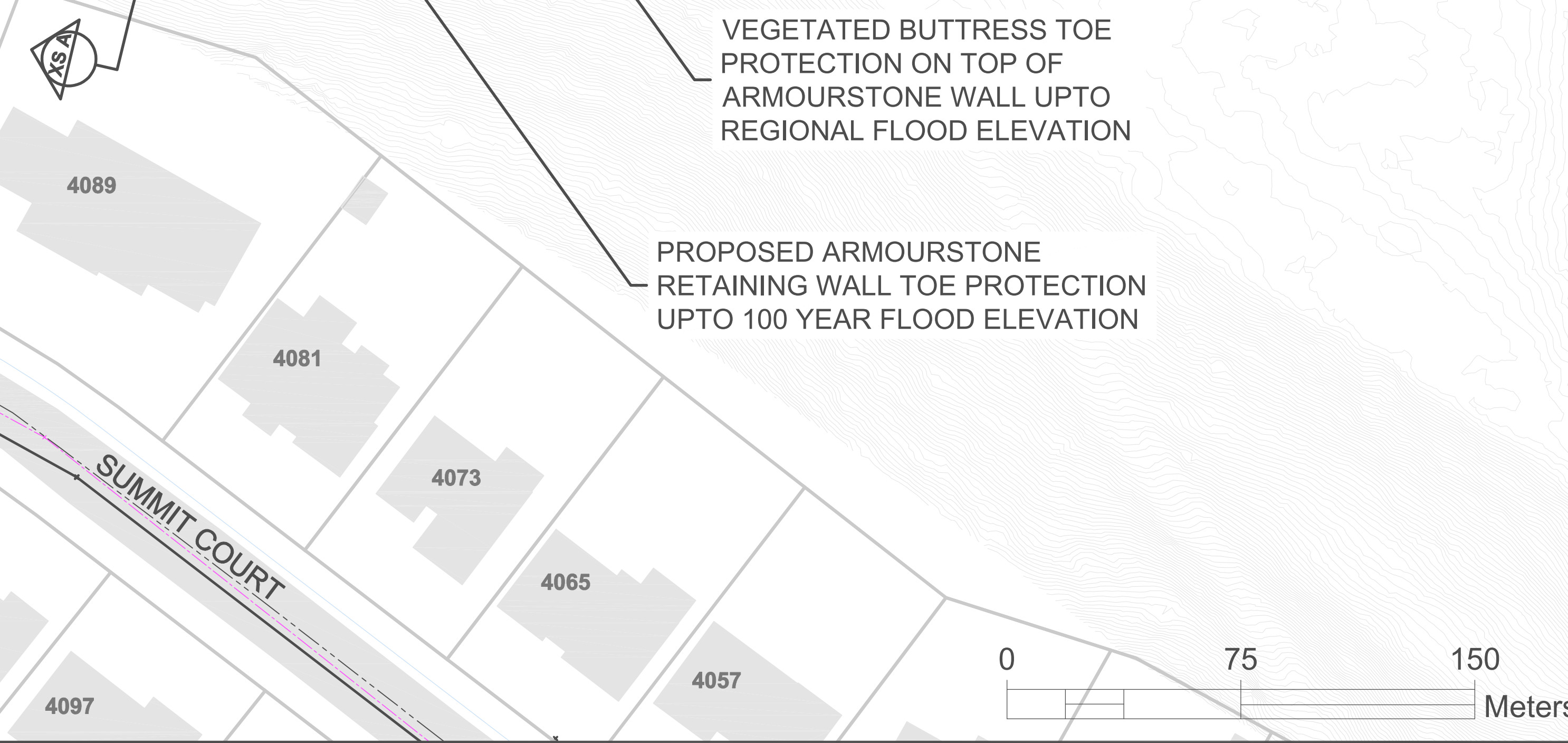
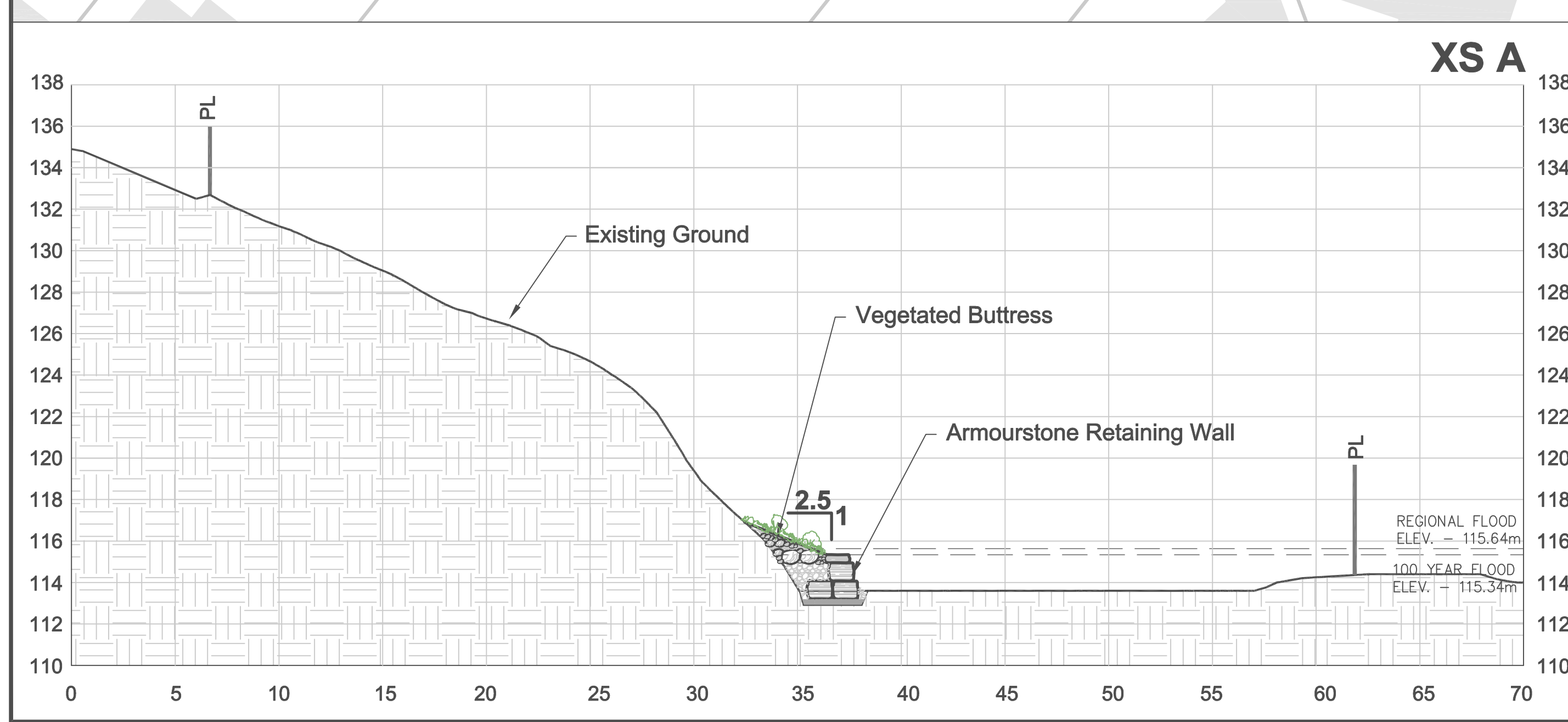
2	R.A.	27/02/2023	ISSUED FOR REVIEW	RA
1	R.A.	30/10/2022	ISSUED FOR REVIEW	RA
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/BUILDING LINE
- WATERCOURSE
- TOP OF BANK
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- EXISTING TRAIL



KEY PLAN  
N.T.S.

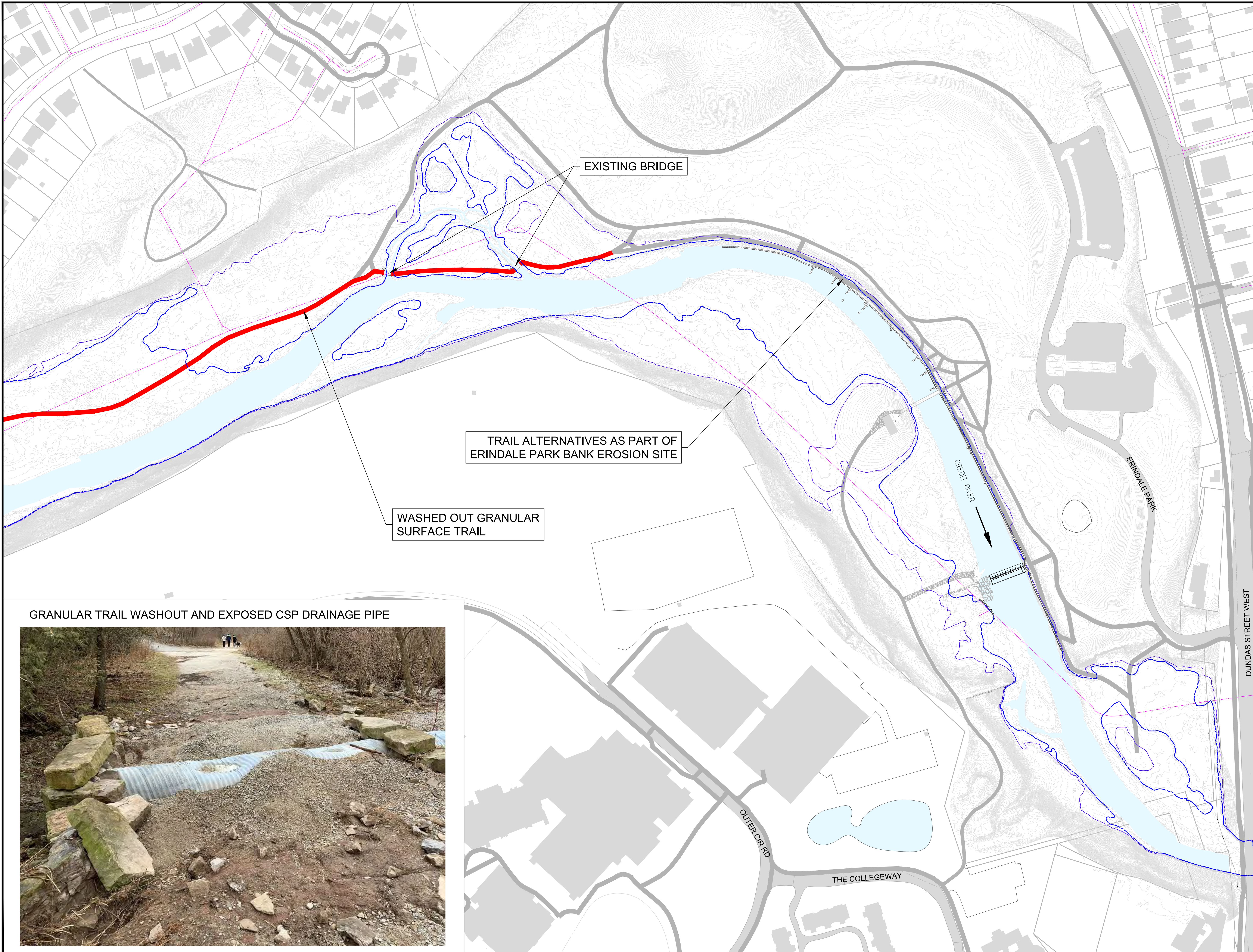


Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**SUMMIT COURT SLOPE  
ALTERNATIVE 3 - ARMOURSTONE  
RETAINING / GRAVITY WALL**

DRAWN BY:	P.S.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-3
SCALE:	1:500	DATE:	FEB. 27, 2023	SHEET NO.	3 OF 3

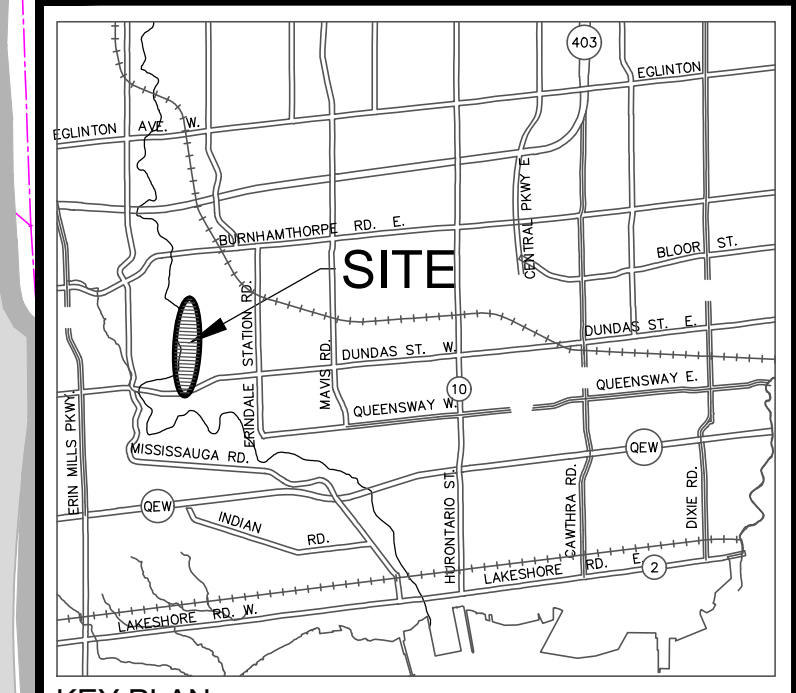




1	R.A.	12/04/2023	ISSUED FOR REVIEW	
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/ BUILDING LINE
	WATERCOURSE
	EXISTING TRAIL
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	2 YEAR FLOODLINE - EXISTING
	5 YEAR FLOODLINE - EXISTING



GRANULAR TRAIL WASHOUT AND EXPOSED CSP DRAINAGE PIPE



Aquafor Beech Limited  
 #4-202-2403 SKYHARVEY AVE.  
 MISSISSAUGA, ONTARIO L4W 5B2  
 PHONE: (905) 629-0099 FAX: (905) 629-0089

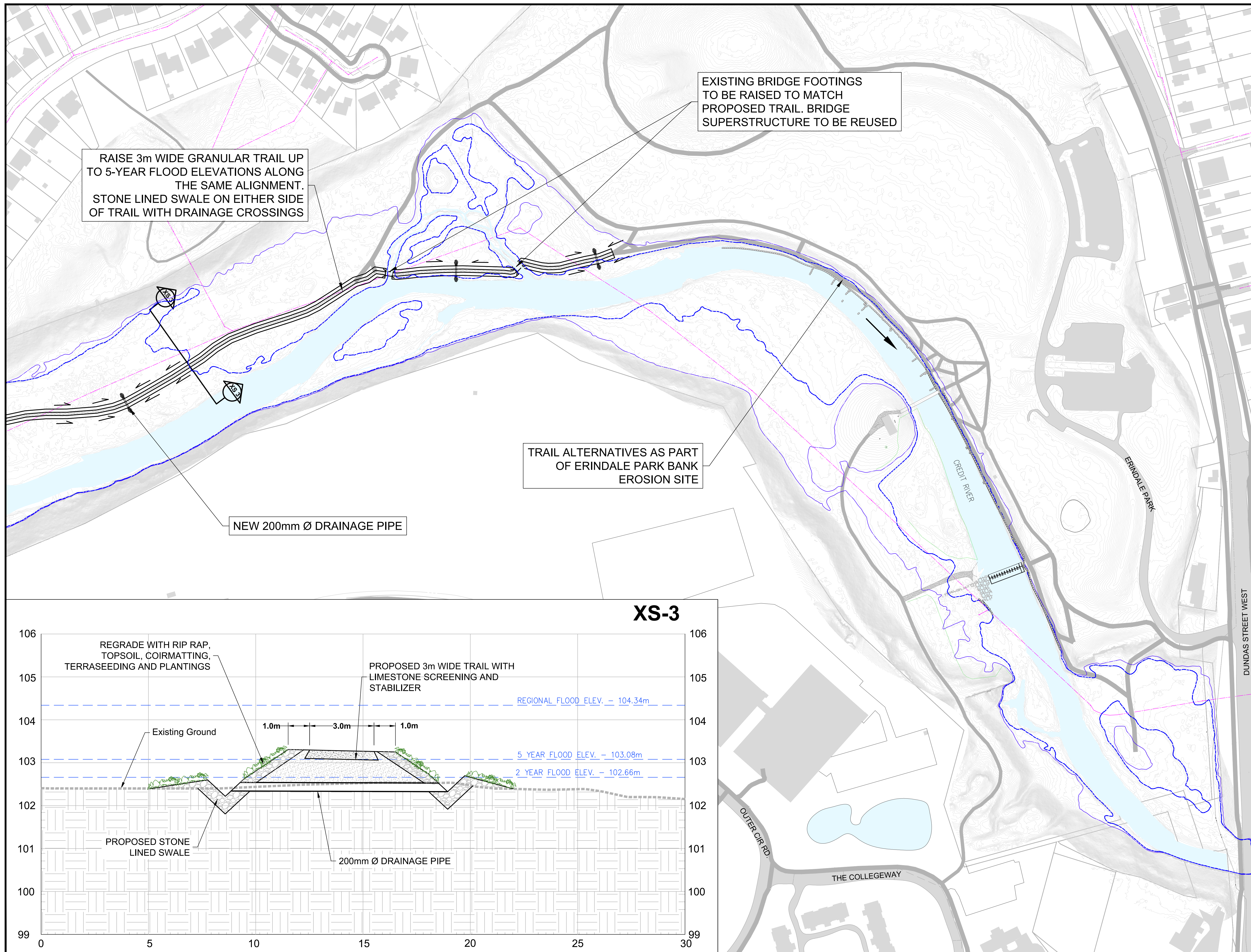
MISSISSAUGA

Project Name:  
**Credit River Erosion Control  
 From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL DOWNSTREAM  
 ALTERNATIVE 1 - DO NOTHING**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-3
SCALE:	1:1500	DATE:	APRIL 12, 2023	SHEET NO.	1 OF 4

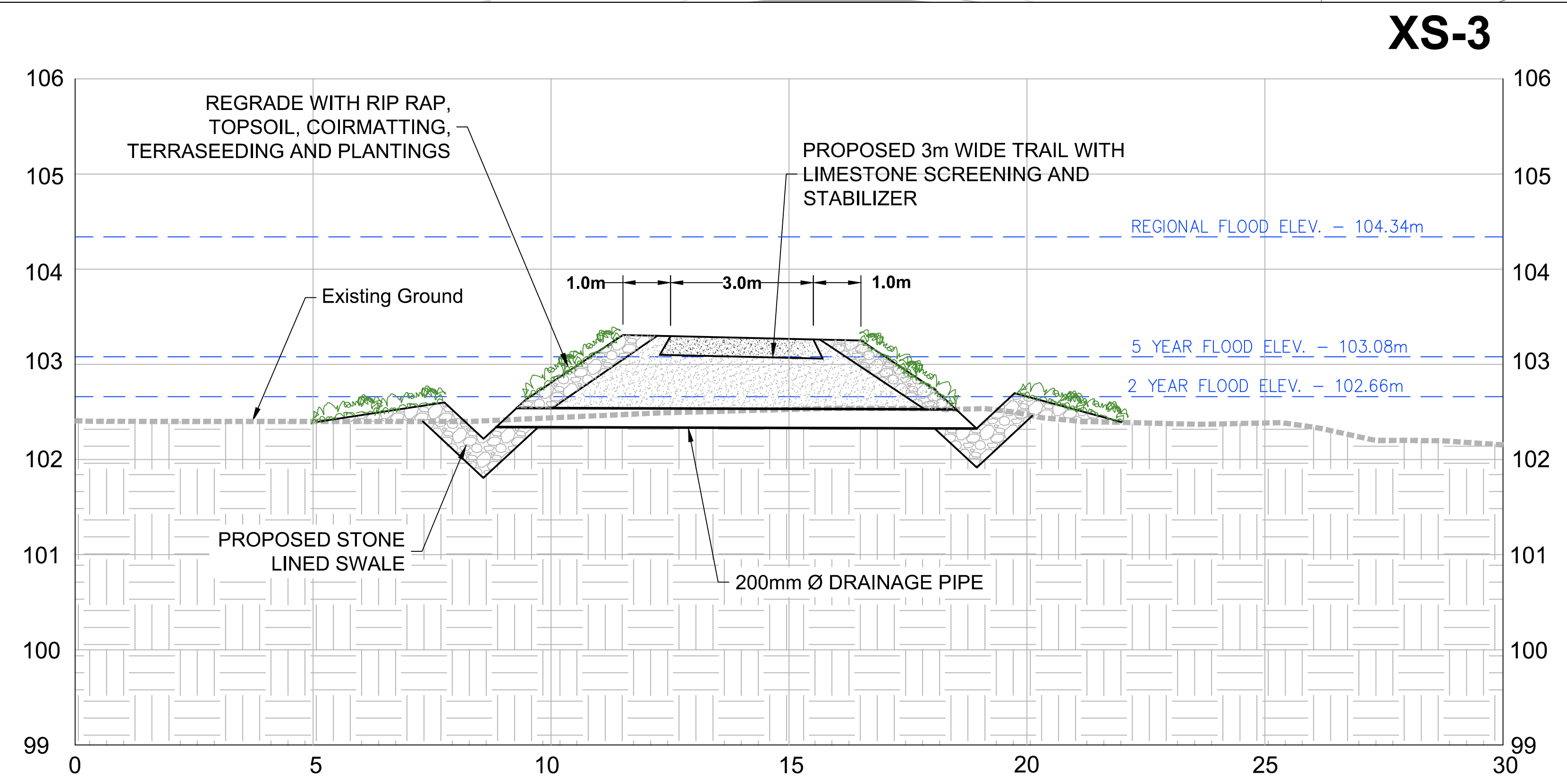
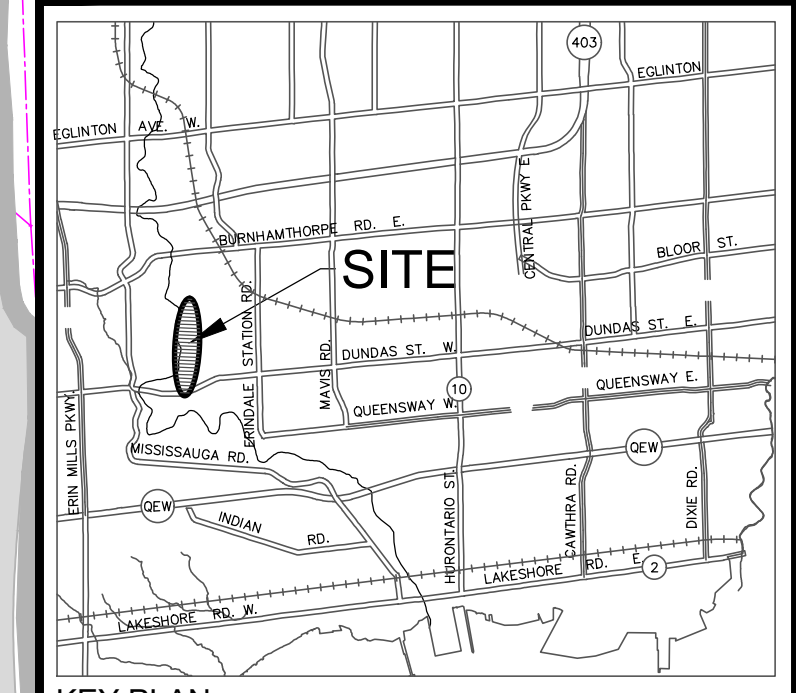


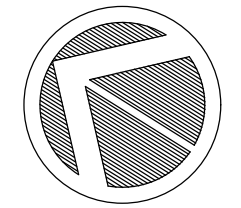



1	R.A.	12/04/2023	ISSUED FOR REVIEW	
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING



  
**Aquafor Beech Limited**  
45-200 ZAG SKYWAY AVE. MISSISSAUGA, ONTARIO L4W 5B2  
PHONE: (905) 629-0099 FAX: (905) 629-0089

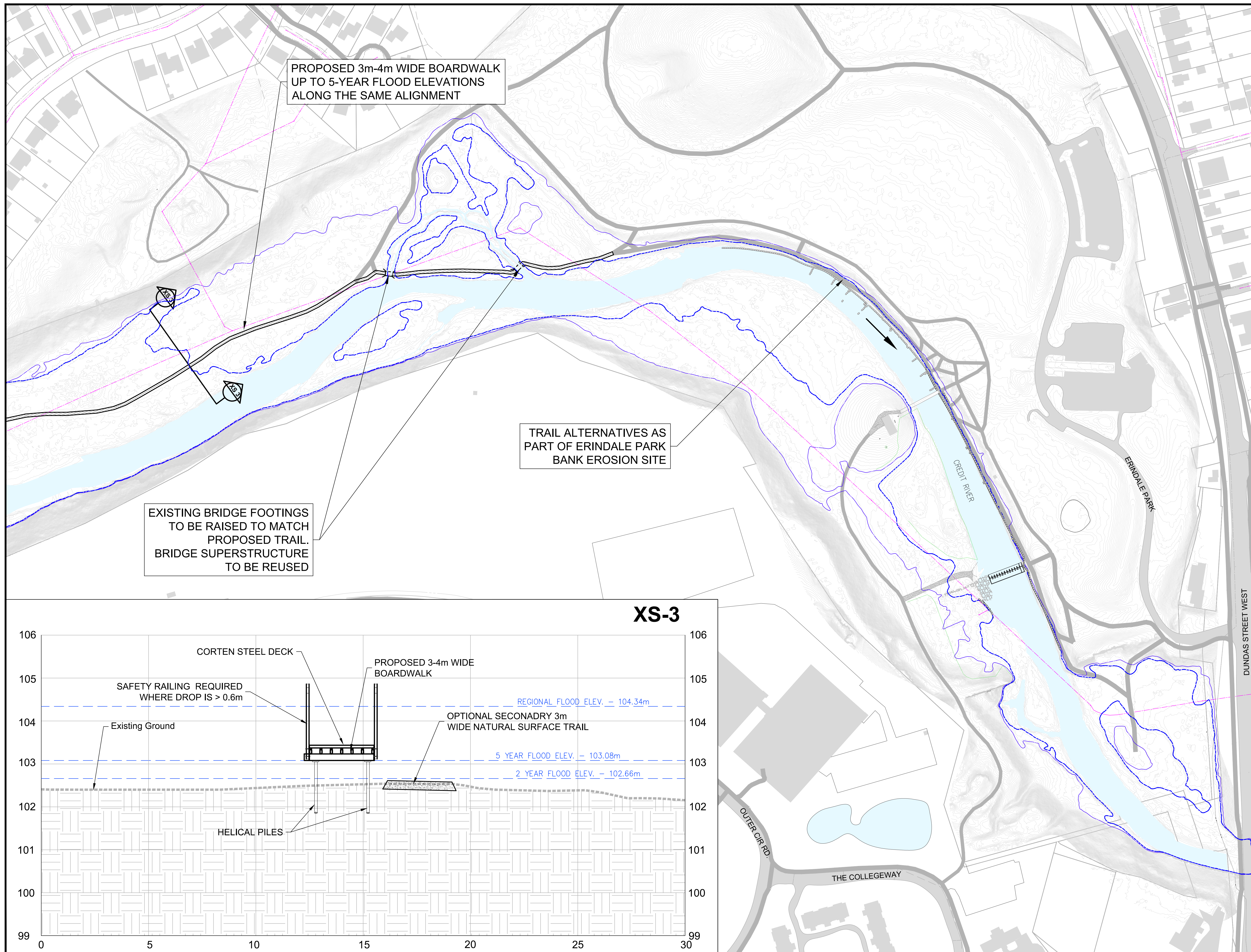
  
**MISSISSAUGA**

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL DOWNSTREAM  
ALTERNATIVE 2 - RAISED GRAVEL TRAIL**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-3
SCALE:	1:1500	DATE:	APRIL 12, 2023	SHEET NO.	2 OF 4

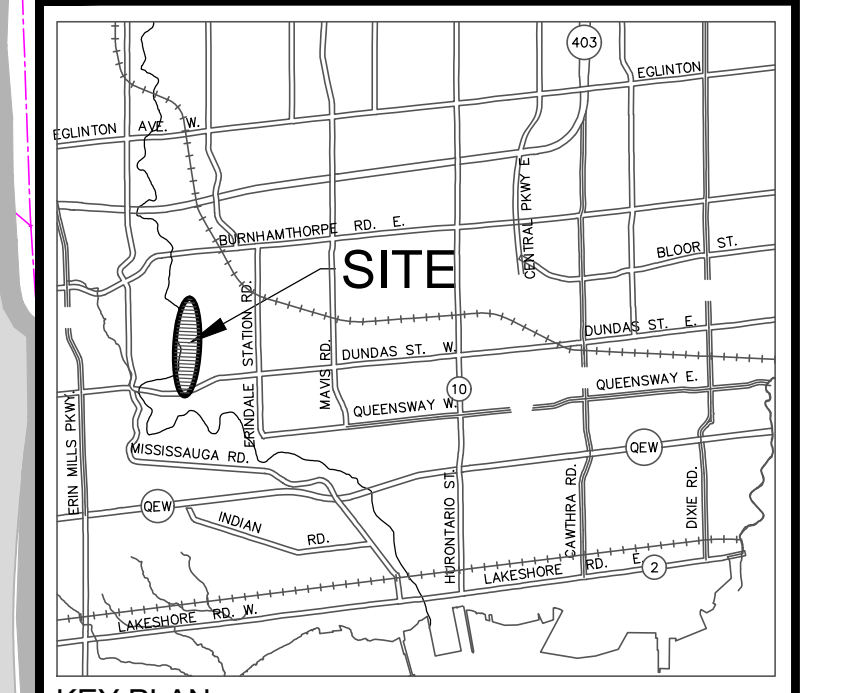




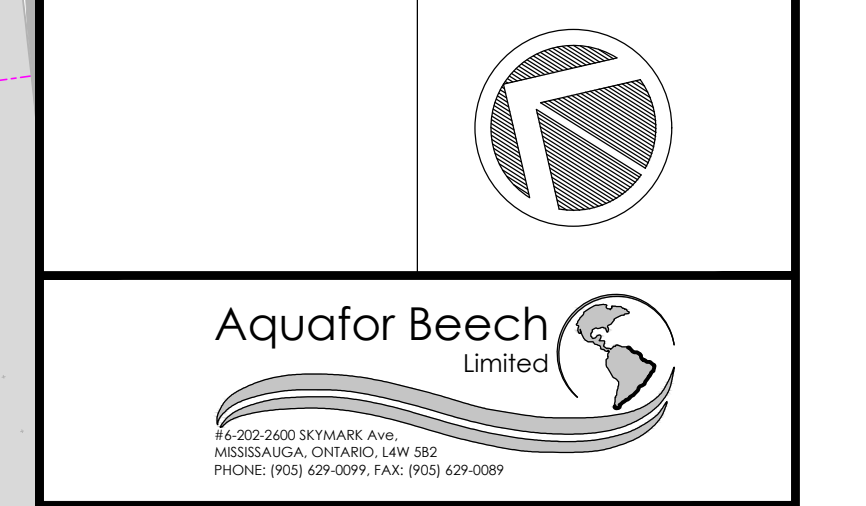
NO.	BY	DATE	REVISIONS	CHECKED
1	R.A.	12/04/2023	ISSUED FOR REVIEW	

**LEGEND**

- PROPERTY/BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING



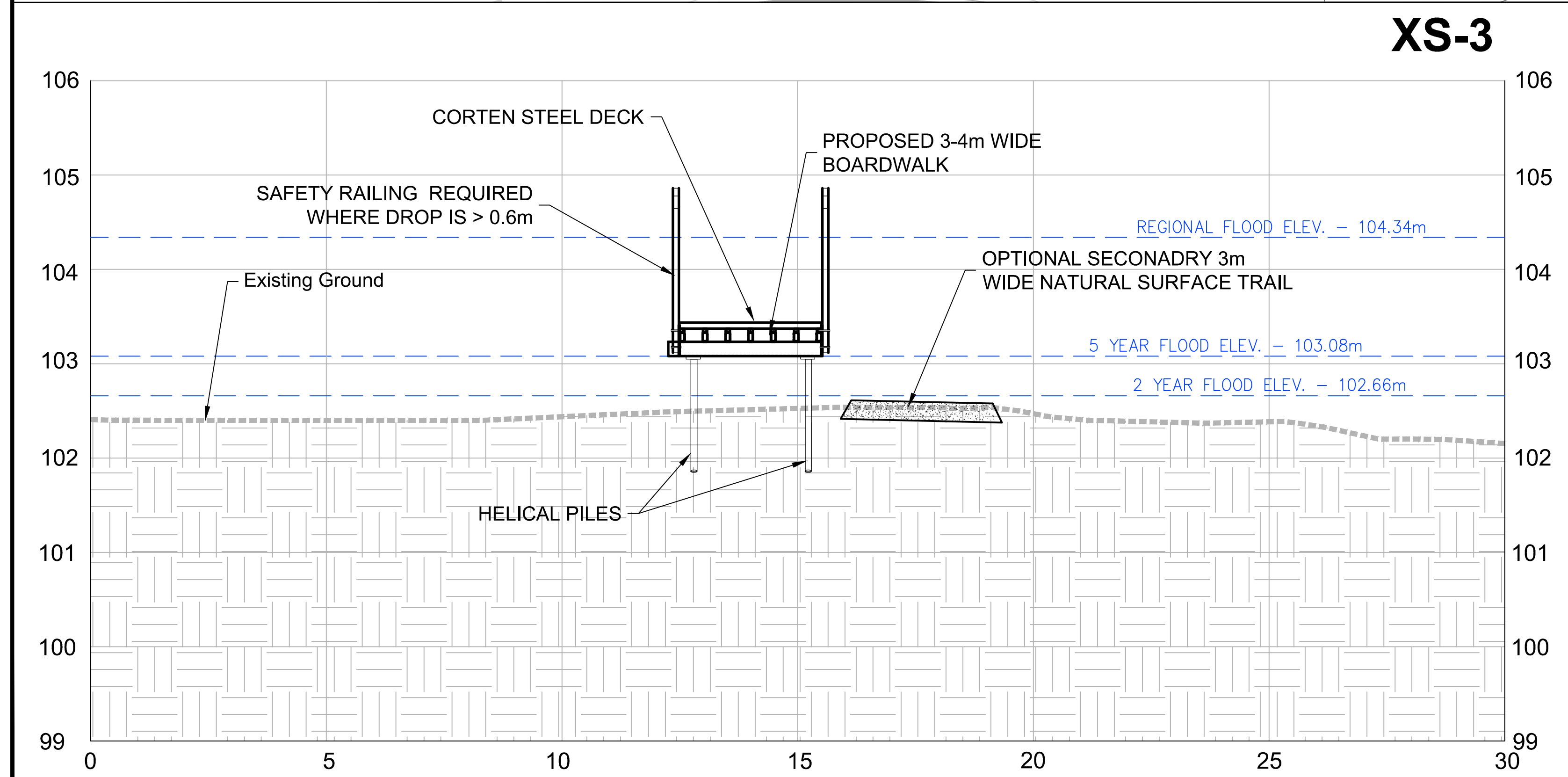
KEY PLAN  
N.T.S.



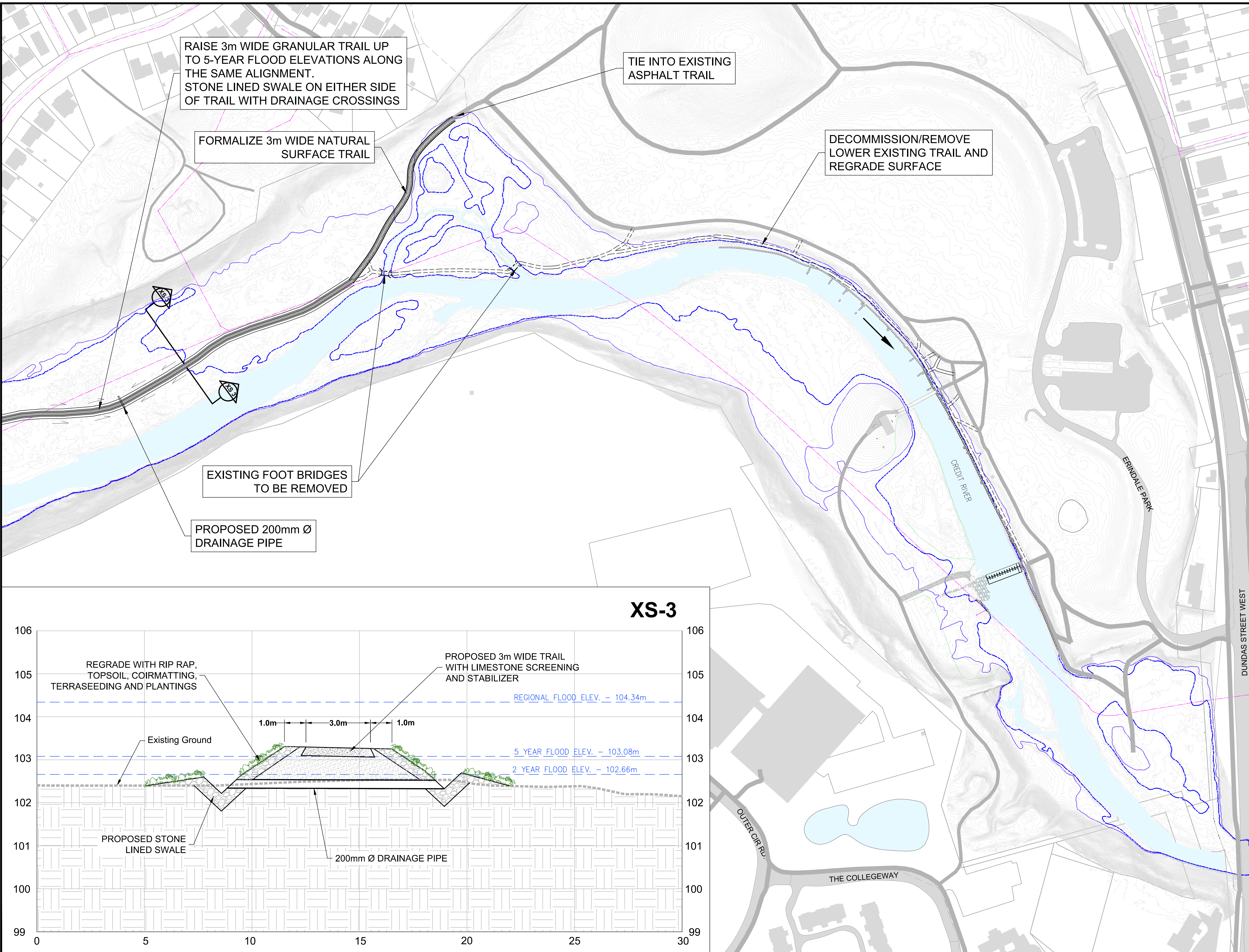
Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL DOWNSTREAM  
ALTERNATIVE 3 - BOARDWALK**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-3
SCALE:	1:1500	DATE:	APRIL 12, 2023	SHEET NO.	3 OF 4



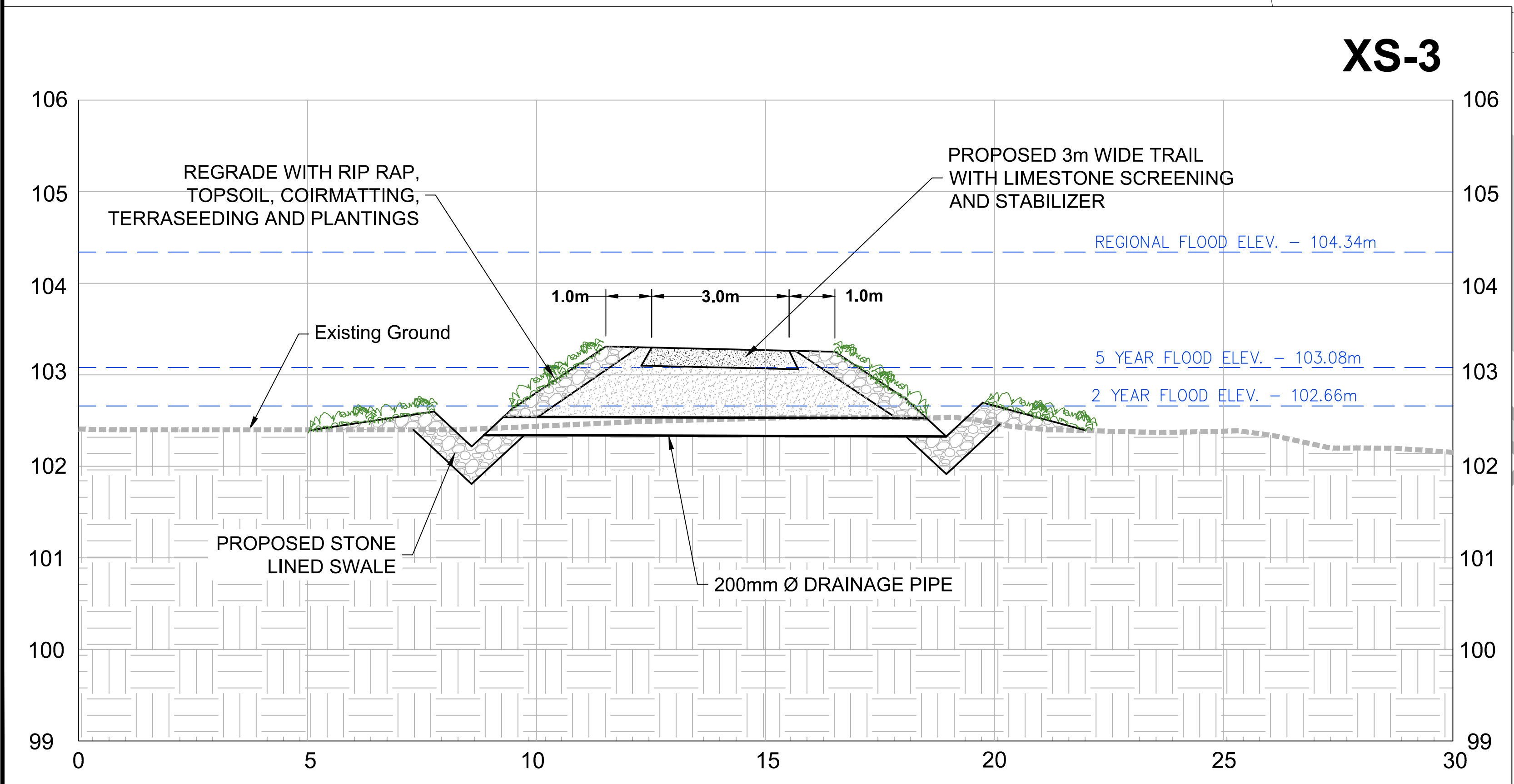
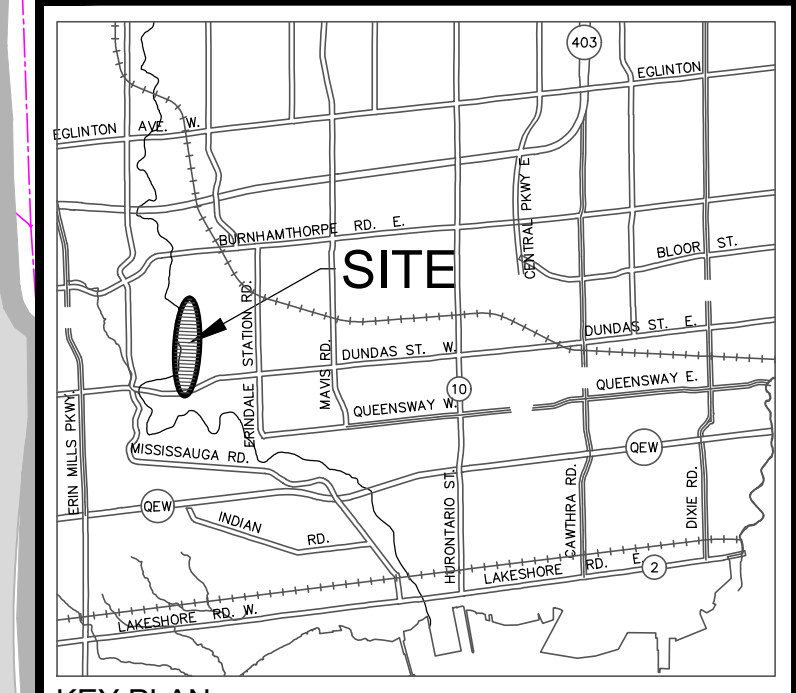




1	R.A.	12/04/2023	ISSUED FOR REVIEW
NO.	BY	DDMMYY	REVISIONS
			CHECKED

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING



KEY PLAN  
N.T.S.

**Aquafor Beech Limited**  
45-200-2400 SKYHARBOUR AVE.  
 MISSISSAUGA, ONTARIO L4W 5B2  
 PHONE: (905) 629-0099 FAX: (905) 629-0089

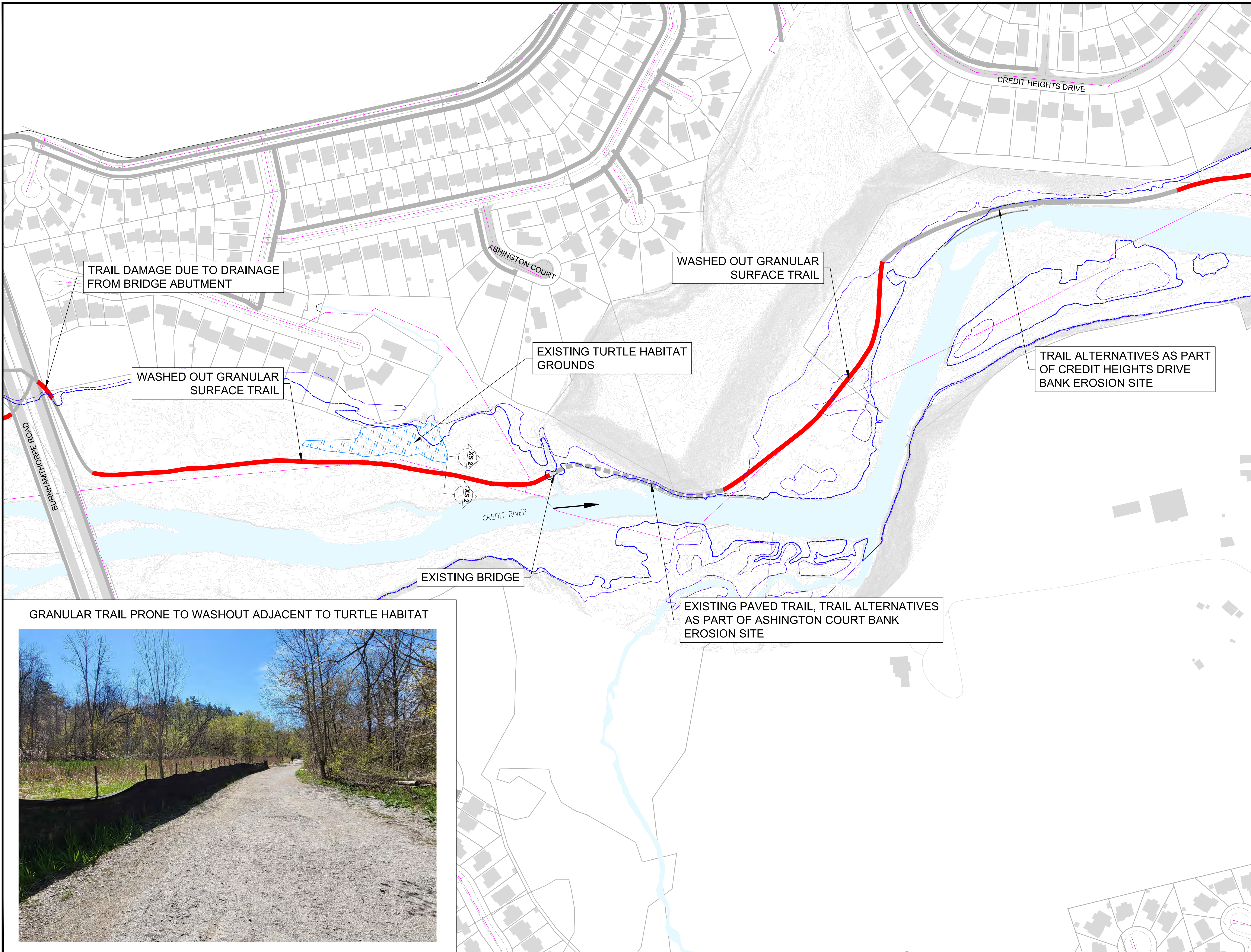
**MISSISSAUGA**

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL DOWNSTREAM  
ALTERNATIVE 4 - TRAIL REALIGNMENT**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-3
SCALE:	1:1500	DATE:	APRIL 12, 2023	SHEET NO.	4 OF 4





TRAIL DAMAGE DUE TO DRAINAGE FROM BRIDGE ABUTMENT

WASHED OUT GRANULAR SURFACE TRAIL

WASHED OUT GRANULAR SURFACE TRAIL

EXISTING TURTLE HABITAT GROUNDS

TRAIL ALTERNATIVES AS PART OF CREDIT HEIGHTS DRIVE BANK EROSION SITE

EXISTING BRIDGE

EXISTING PAVED TRAIL, TRAIL ALTERNATIVES AS PART OF ASHINGTON COURT BANK EROSION SITE

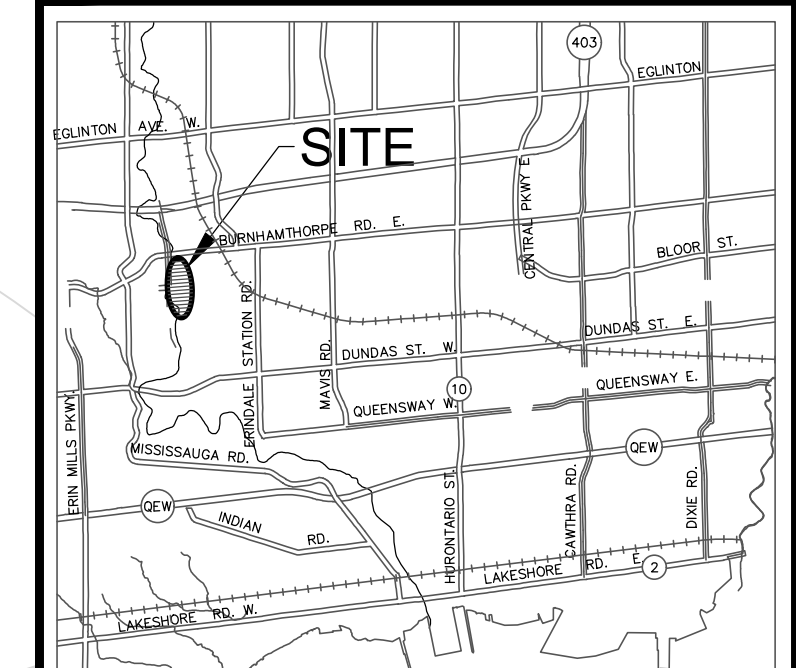
GRANULAR TRAIL PRONE TO WASHOUT ADJACENT TO TURTLE HABITAT



1	R.A.	12/04/2023	ISSUED FOR REVIEW	
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	EXISTING TRAIL
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	2 YEAR FLOODLINE - EXISTING
	5 YEAR FLOODLINE - EXISTING



KEY PLAN  
N.T.S.

Aquafor Beech Limited  
 #4-203-2303 SKYWAY AVE.  
 MISSISSAUGA, ONTARIO L4W 5B2  
 PHONE: (905) 629-0099 FAX: (905) 629-0089

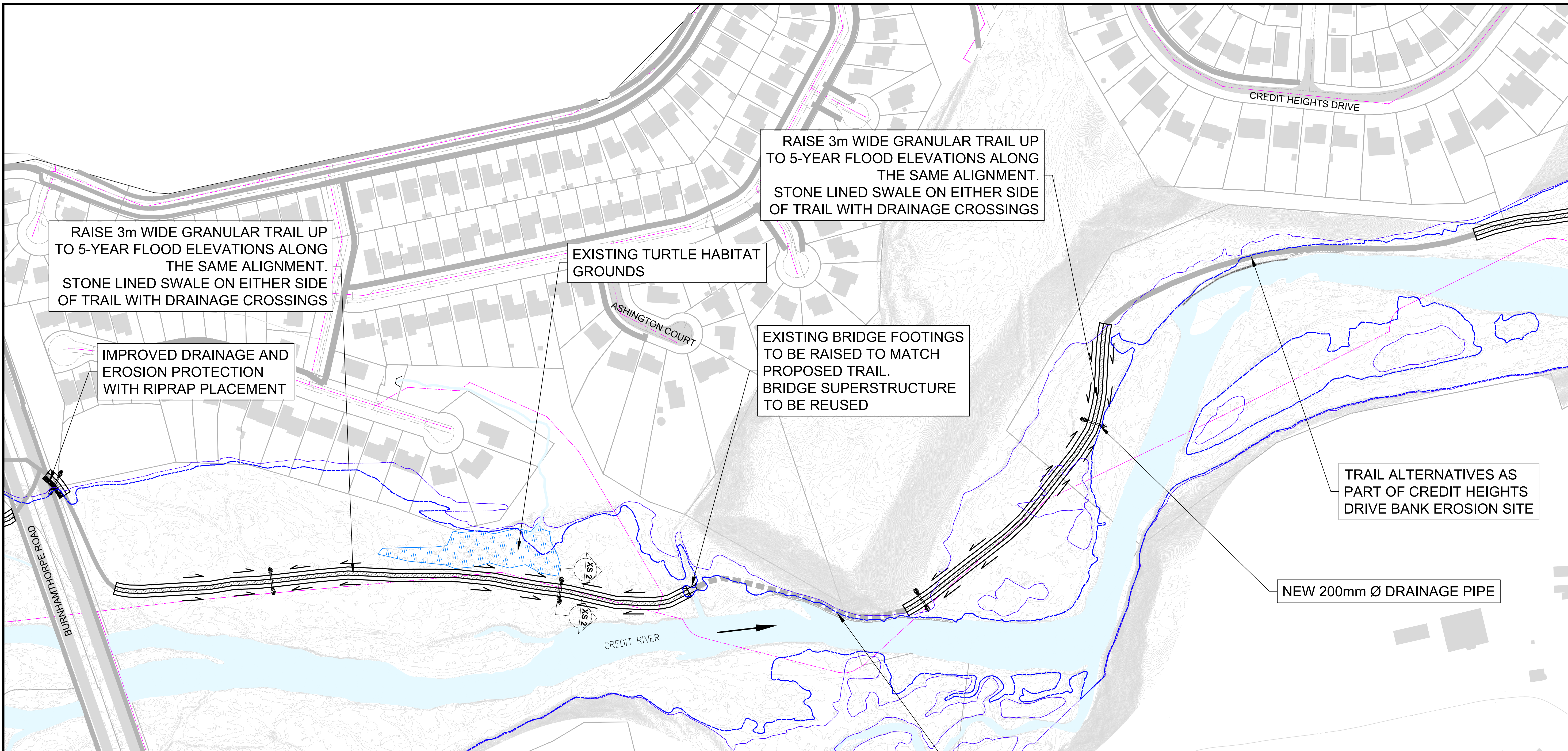
MISSISSAUGA

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL - MID TRAIL  
ALTERNATIVE 1 - DO NOTHING**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-2
SCALE:	1:1500	DATE:	APRIL 12, 2023	SHEET NO.	1 OF 4

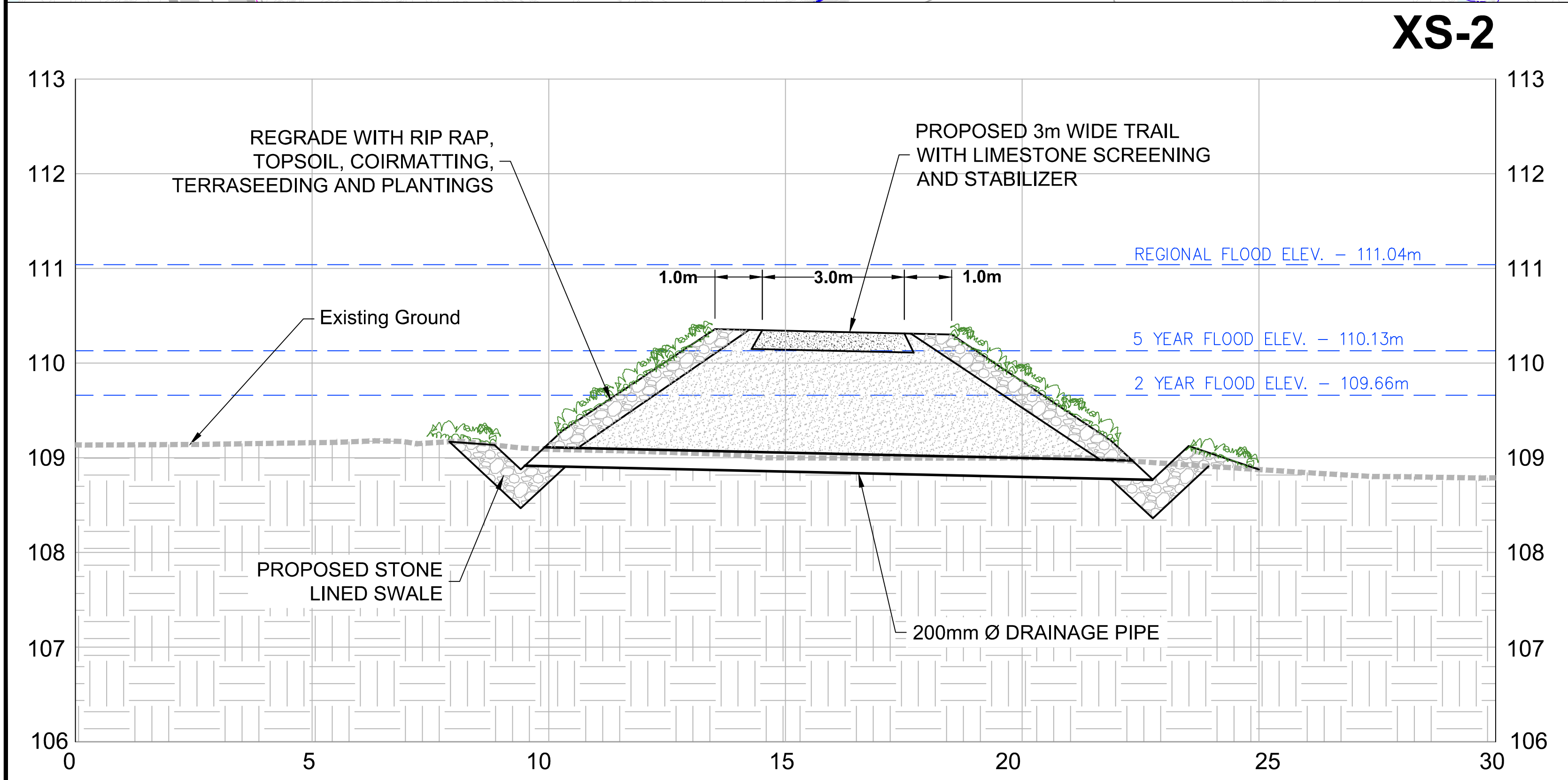
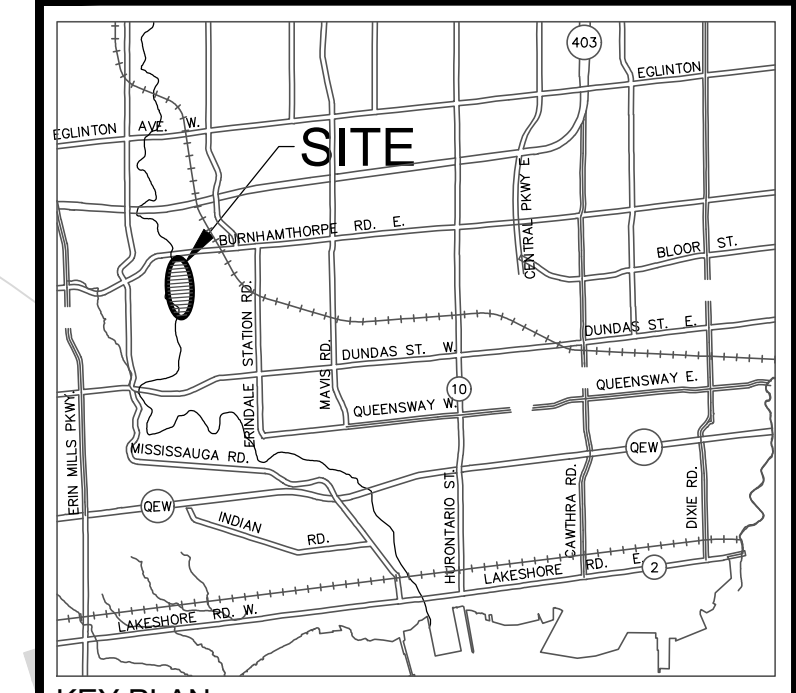




NO.	BY	DATE	REVISIONS	CHECKED
1	R.A.	12/04/2023	ISSUED FOR REVIEW	

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING



**Aquafor Beech Limited**

**MISSISSAUGA**

Project Name: **Credit River Erosion Control From Dundas Street West to Hwy 403**

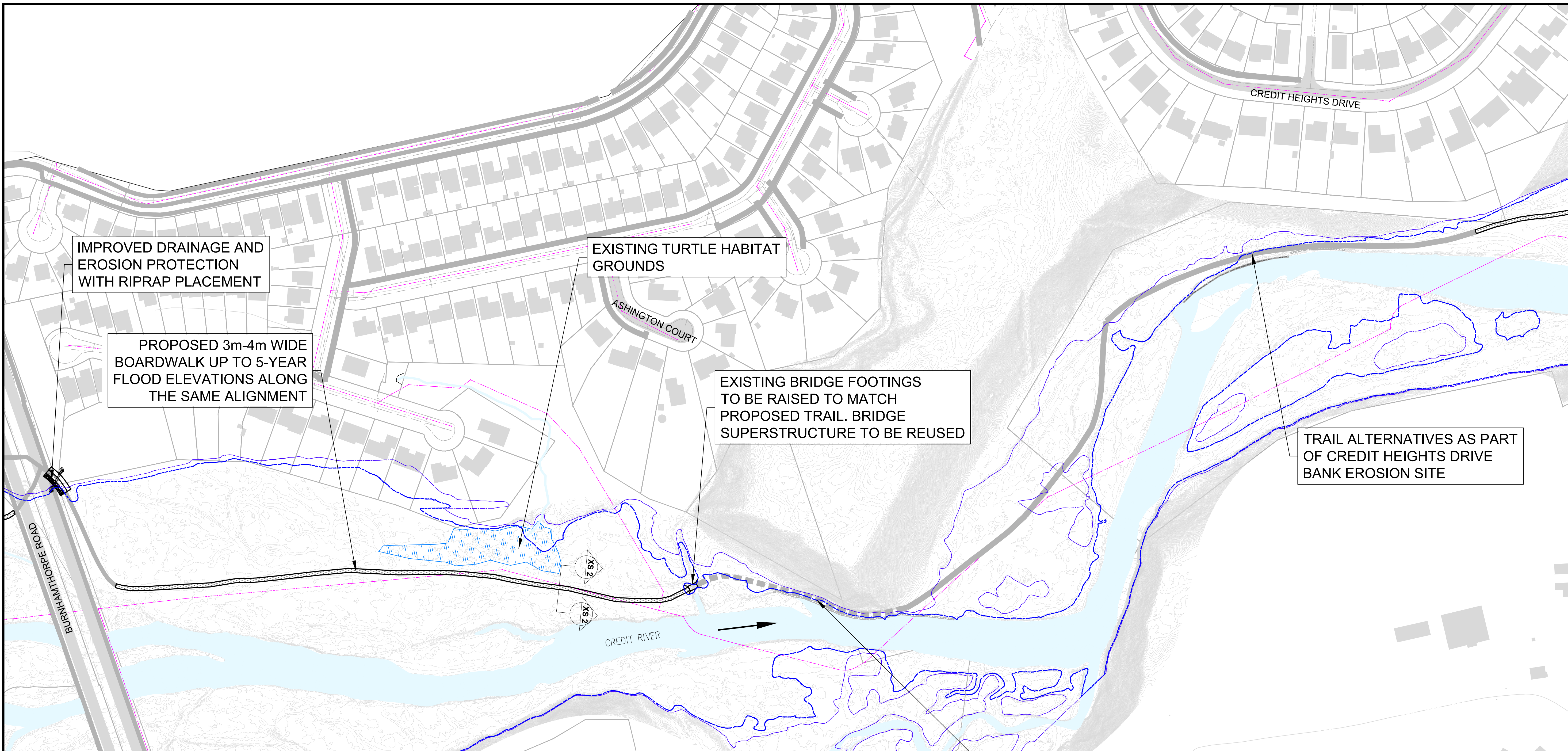
Drawing Title: **CULHAM TRAIL - MID TRAIL ALTERNATIVE 2 - RAISED GRAVEL TRAIL**

DRAWN BY: O.C. CHECKED BY: R.A. PROJECT NO. XX XXX XXXX

DESIGNED BY: R.A. CHECKED BY: DWG. NO. GP-2

SCALE: 1:1500 DATE: APRIL 12, 2023 SHEET NO. 2 OF 4

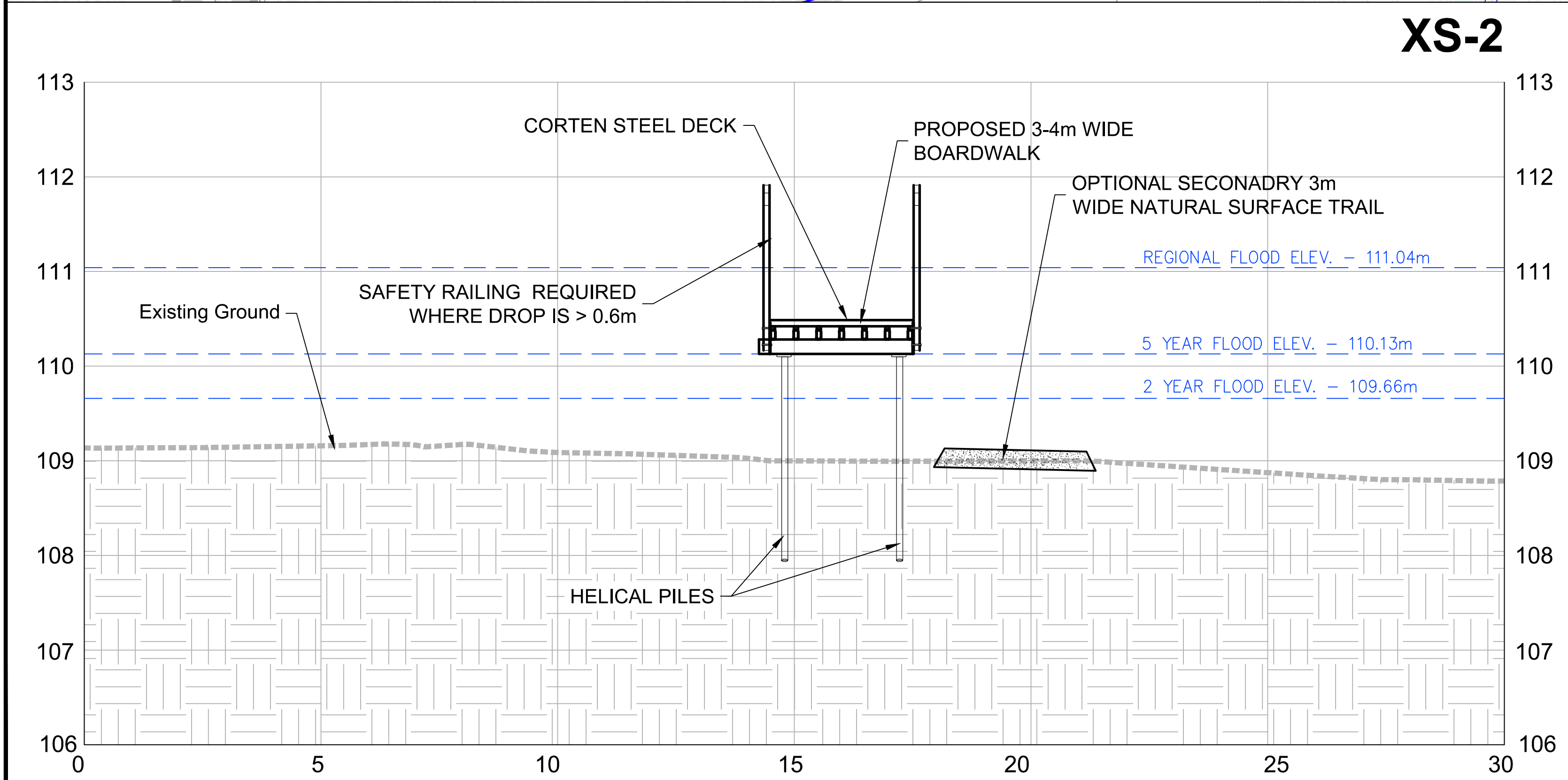
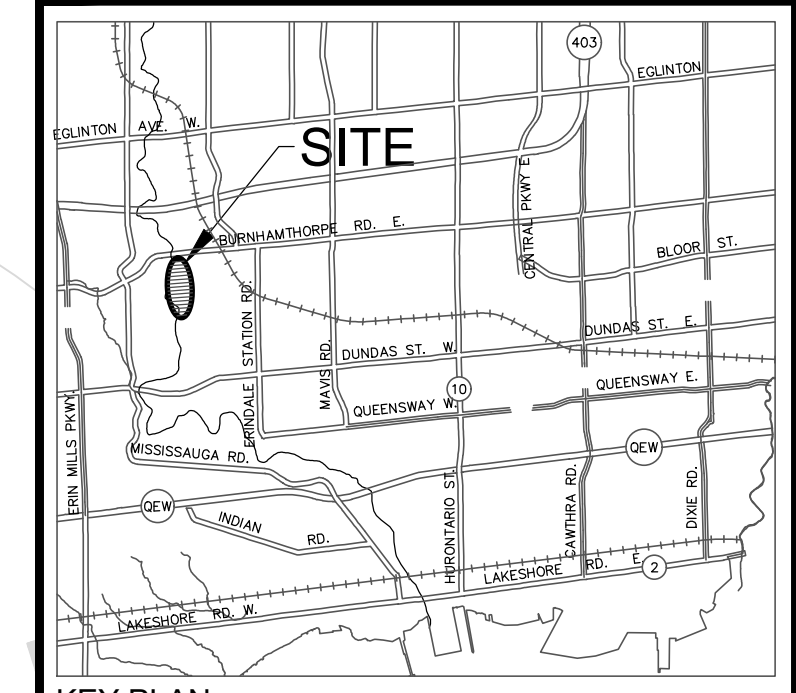




NO.	BY	DDMMYY	REVISIONS	CHECKED
1	R.A.	12/04/2023	ISSUED FOR REVIEW	

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING



EXISTING PAVED TRAIL, TRAIL ALTERNATIVES AS PART OF ASHINGTON COURT BANK EROSION SITE

KEY PLAN  
N.T.S.

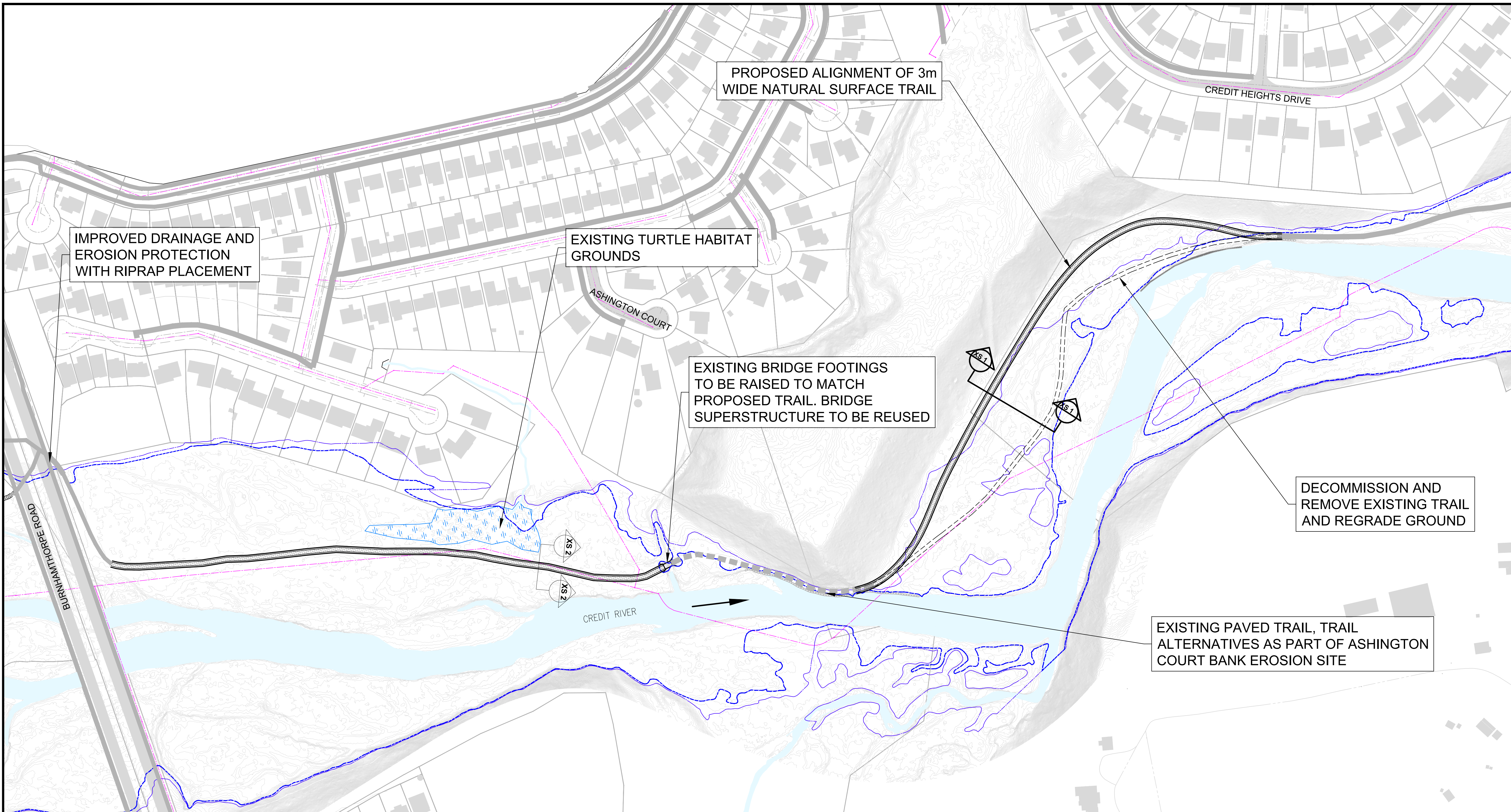
Aquafor Beech Limited  
46-200 2400 SKYWAY AVE.  
MISSISSAUGA, ONTARIO L4V 9S2  
PHONE: (905) 629-0099 FAX: (905) 629-0089

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL - MID TRAIL  
ALTERNATIVE 3 - BOARDWALK**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-2
SCALE:	1:1500	DATE:	APRIL 12, 2023	SHEET NO.	3 OF 4

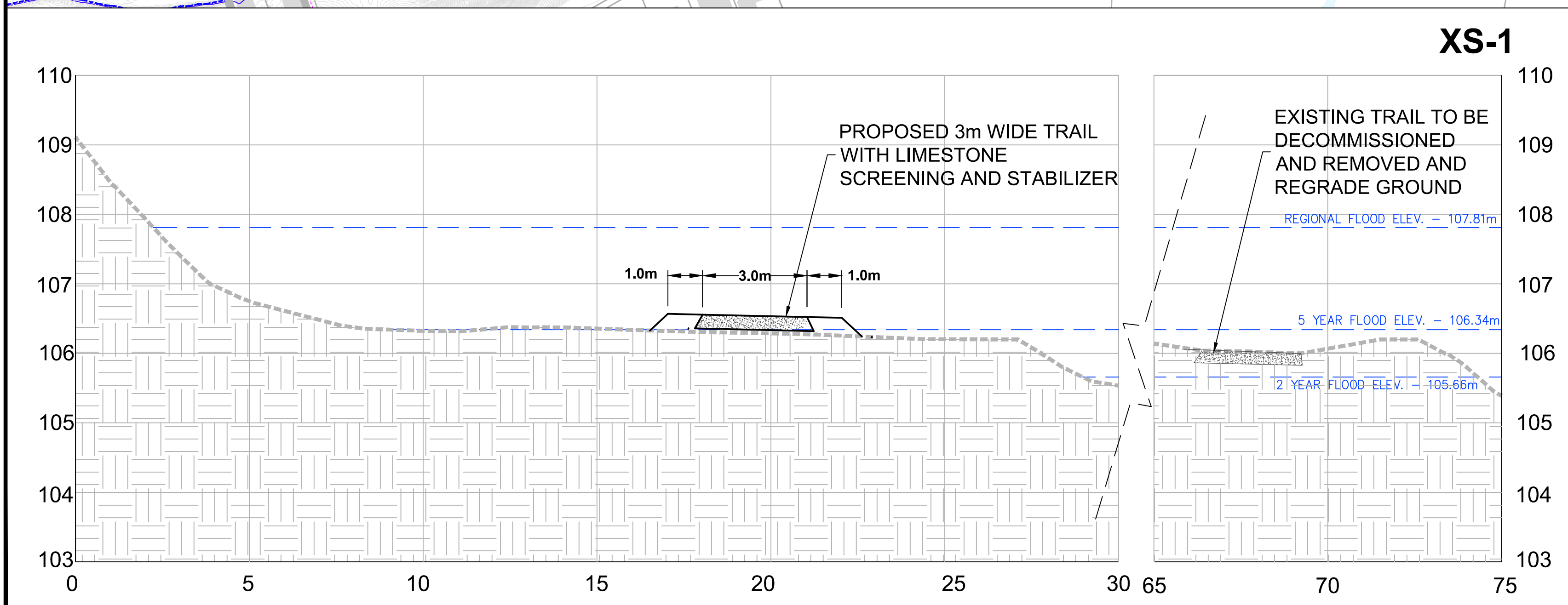
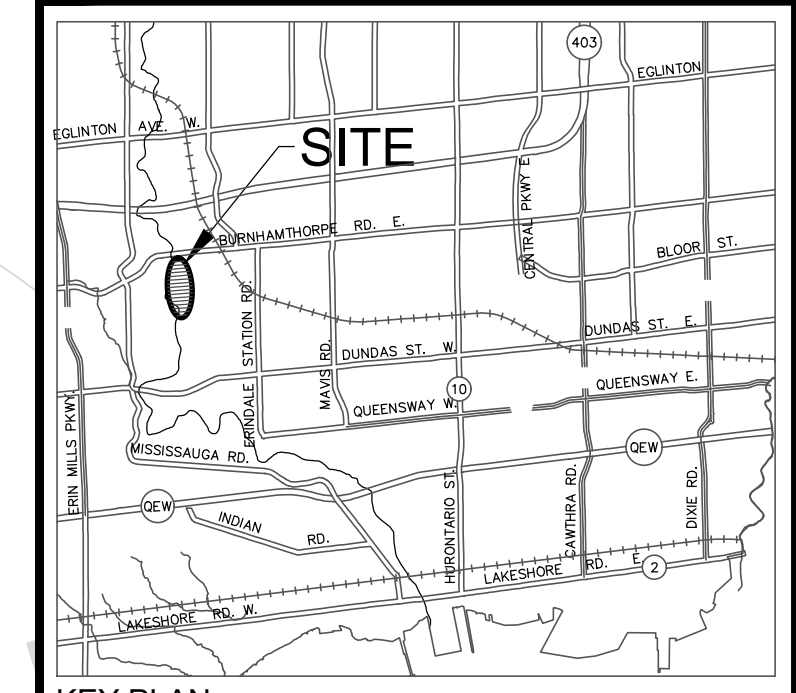




1	R.A.	12/04/2023	ISSUED FOR REVIEW	
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

	PROPERTY/BUILDING LINE
	WATERCOURSE
	EXISTING TRAIL
	EXISTING CONTOUR
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	2 YEAR FLOODLINE - EXISTING
	5 YEAR FLOODLINE - EXISTING



**Aquafor Beech Limited**

46-200-2400 SKYWAY AVE.  
MISSISSAUGA, ONTARIO L4W 5B2  
PHONE: (905) 629-0099 FAX: (905) 629-0089

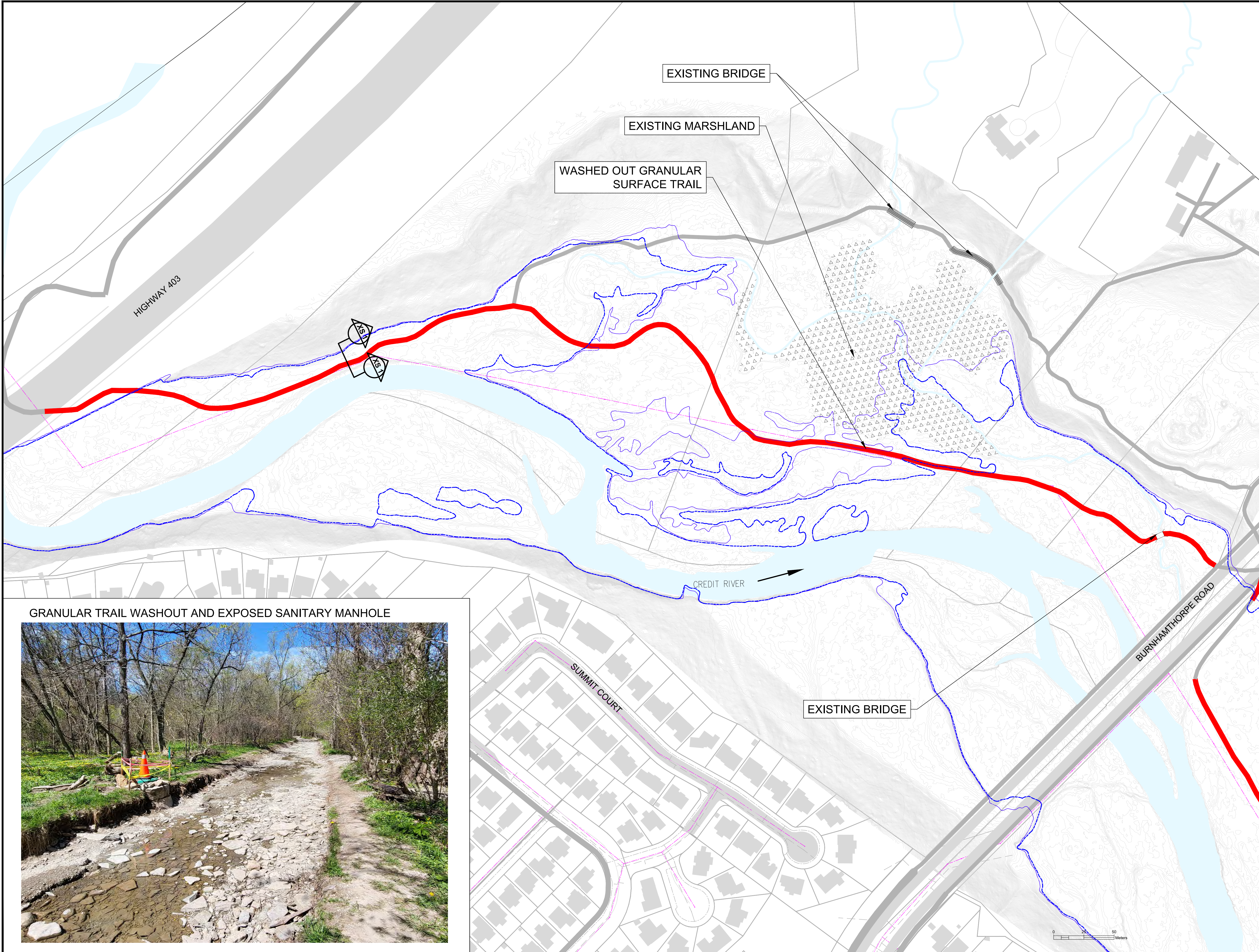
**MISSISSAUGA**

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL - MID TRAIL  
ALTERNATIVE 4 - TRAIL REALIGNMENT**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-2
SCALE:	1:1500	DATE:	APRIL 12, 2023	SHEET NO.	4 OF 4

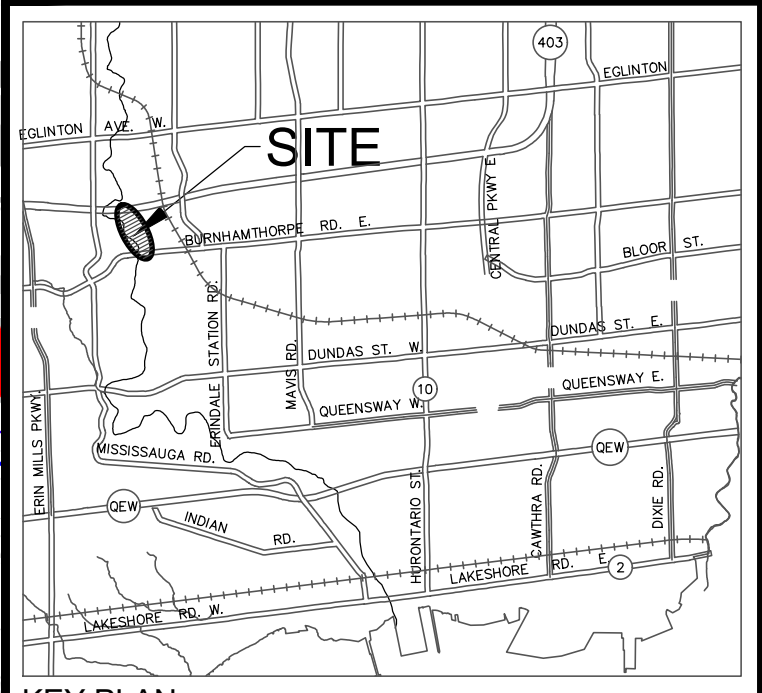




NO.	BY	DATE	REVISIONS	CHECKED
1	R.A.	12/04/2023	ISSUED FOR REVIEW	

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING



GRANULAR TRAIL WASHOUT AND EXPOSED SANITARY MANHOLE



**Aquafor Beech Limited**  
 #6-203-2303 SKYHARVEY AVE.  
 MISSISSAUGA, ONTARIO L4W 9S2  
 PHONE: (905) 629-0099 FAX: (905) 629-0089

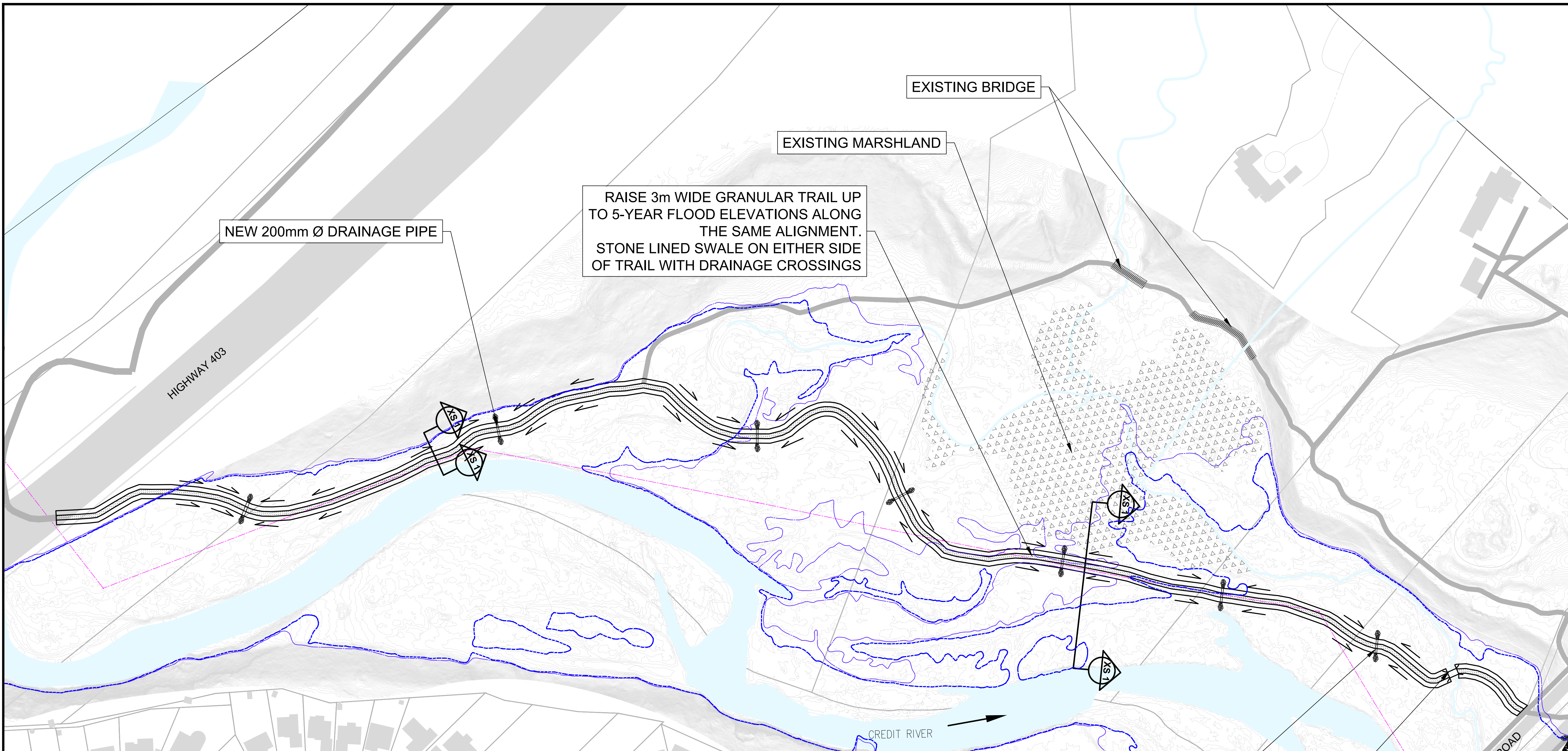
**MISSISSAUGA**

Project Name:  
**Credit River Erosion Control  
 From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL UPSTREAM  
 ALTERNATIVE 1 - DO NOTHING**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:1300	DATE:	APRIL 12, 2023	SHEET NO.	1 OF 4





1	R.A.	12/04/2023	ISSUED FOR REVIEW	
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING

RAISE 3m WIDE GRANULAR TRAIL UP TO 5-YEAR FLOOD ELEVATIONS ALONG THE SAME ALIGNMENT. STONE LINED SWALE ON EITHER SIDE OF TRAIL WITH DRAINAGE CROSSINGS

NEW 200mm Ø DRAINAGE PIPE

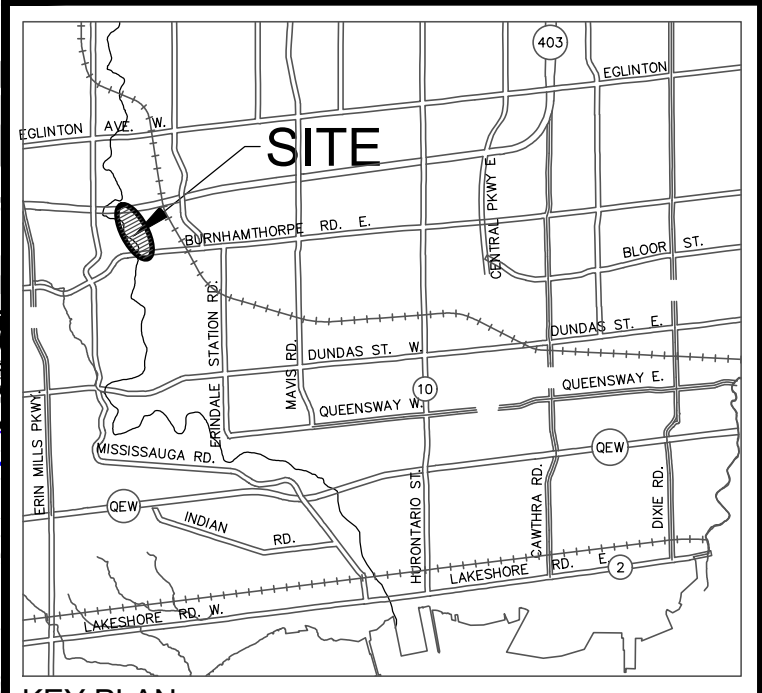
EXISTING BRIDGE

EXISTING MARSHLAND

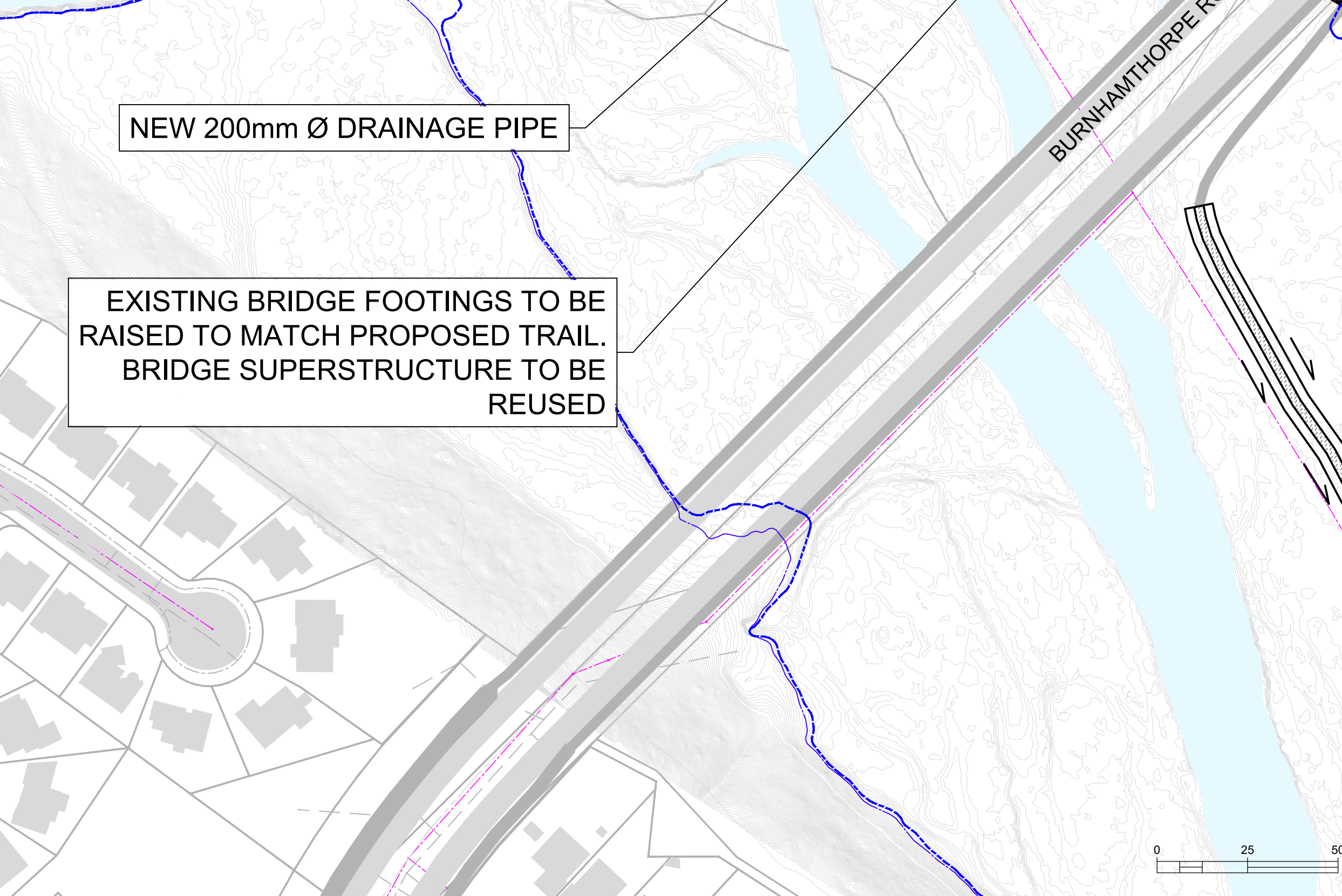
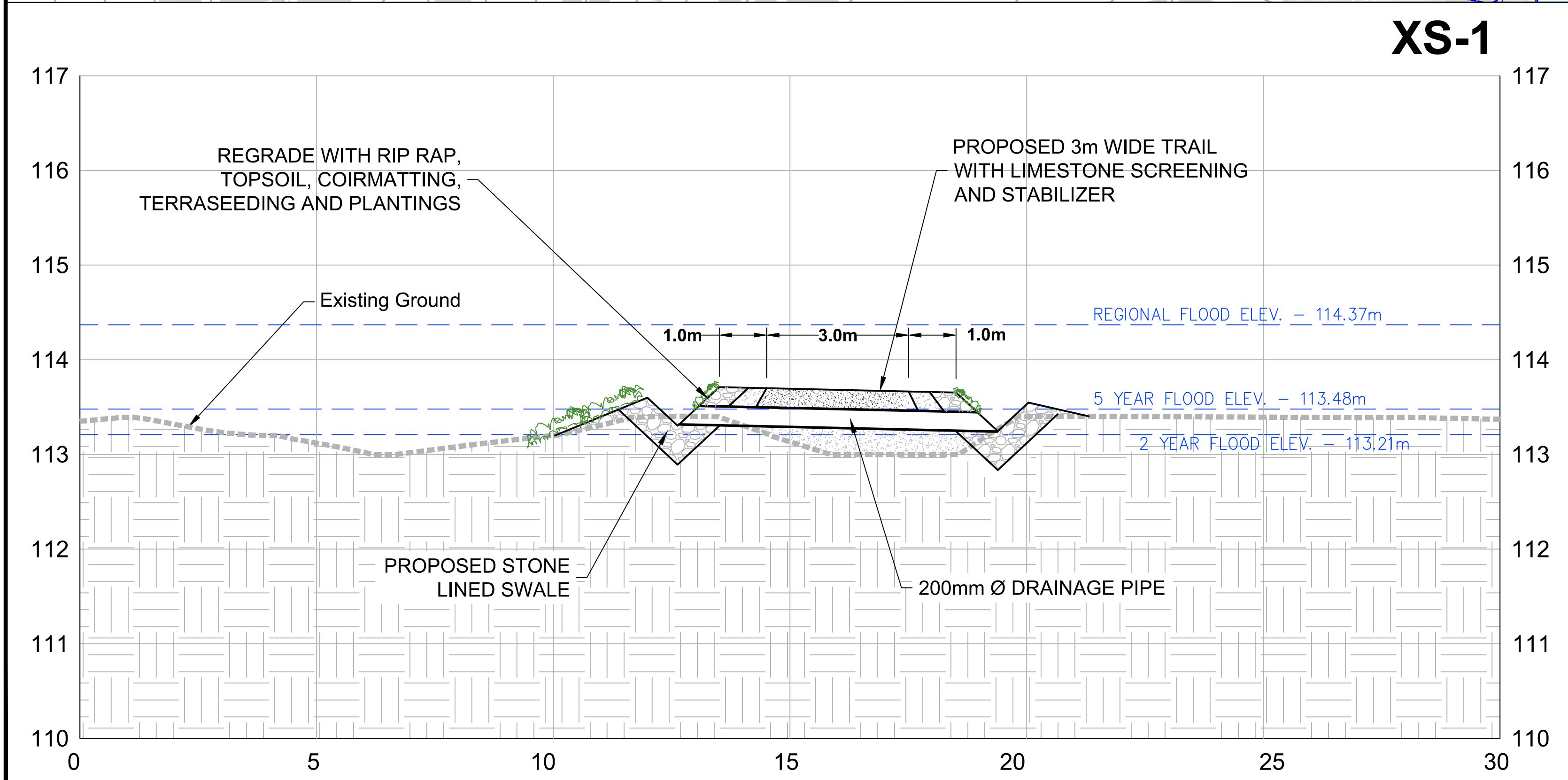
HIGHWAY 403

CREDIT RIVER

BURNHAMTHORPE ROAD



KEY PLAN  
N.T.S.



Aquafor Beech Limited

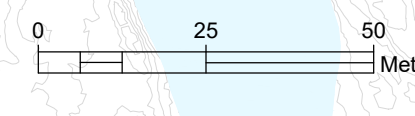
45-200-2400 SKYHAWK AVE.  
MISSISSAUGA, ONTARIO L4W 9S2  
PHONE: (905) 629-0099 FAX: (905) 629-0089

MISSISSAUGA

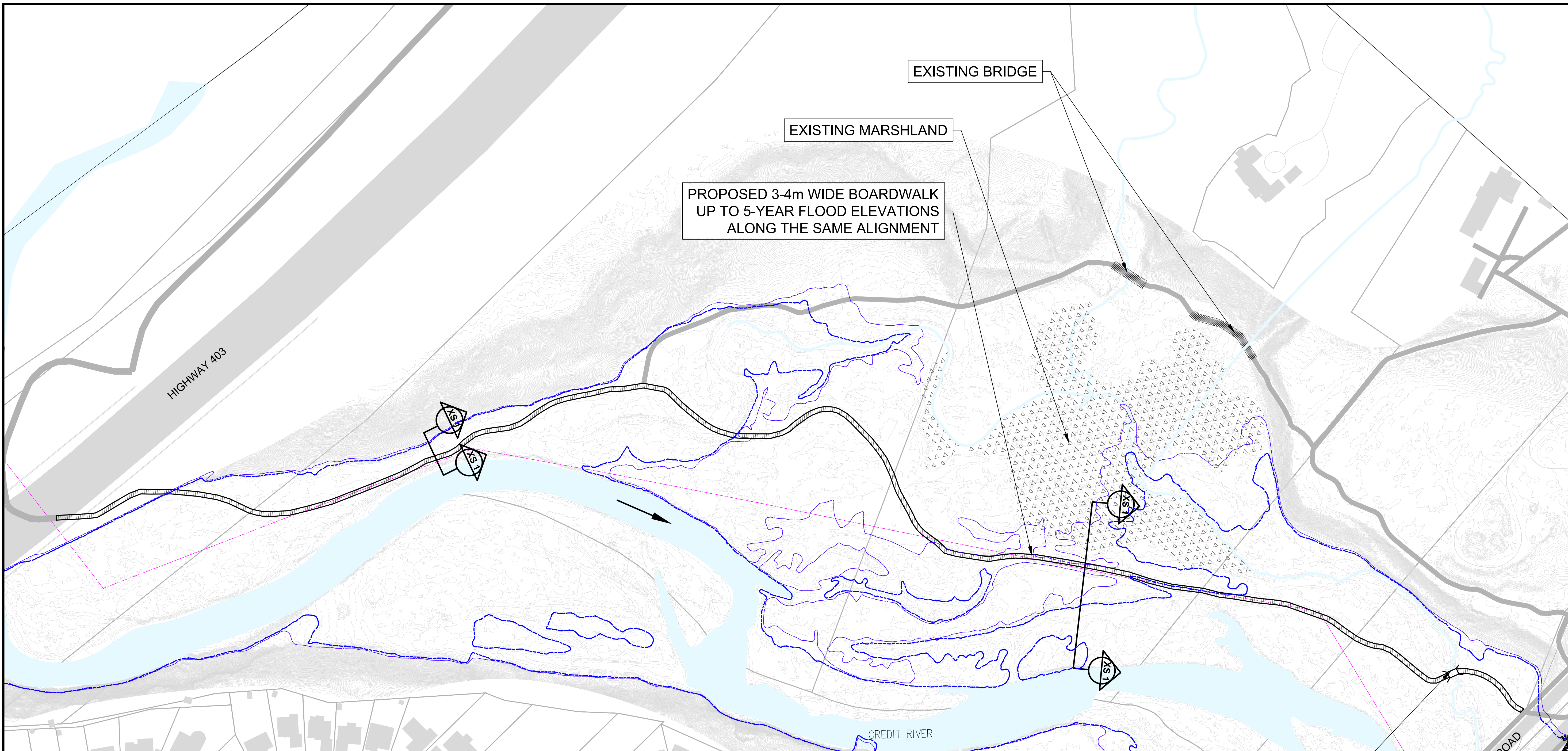
Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL UPSTREAM  
ALTERNATIVE 2 - RAISED GRAVEL TRAIL**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:1300	DATE:	APRIL 12, 2023	SHEET NO.	2 OF 4



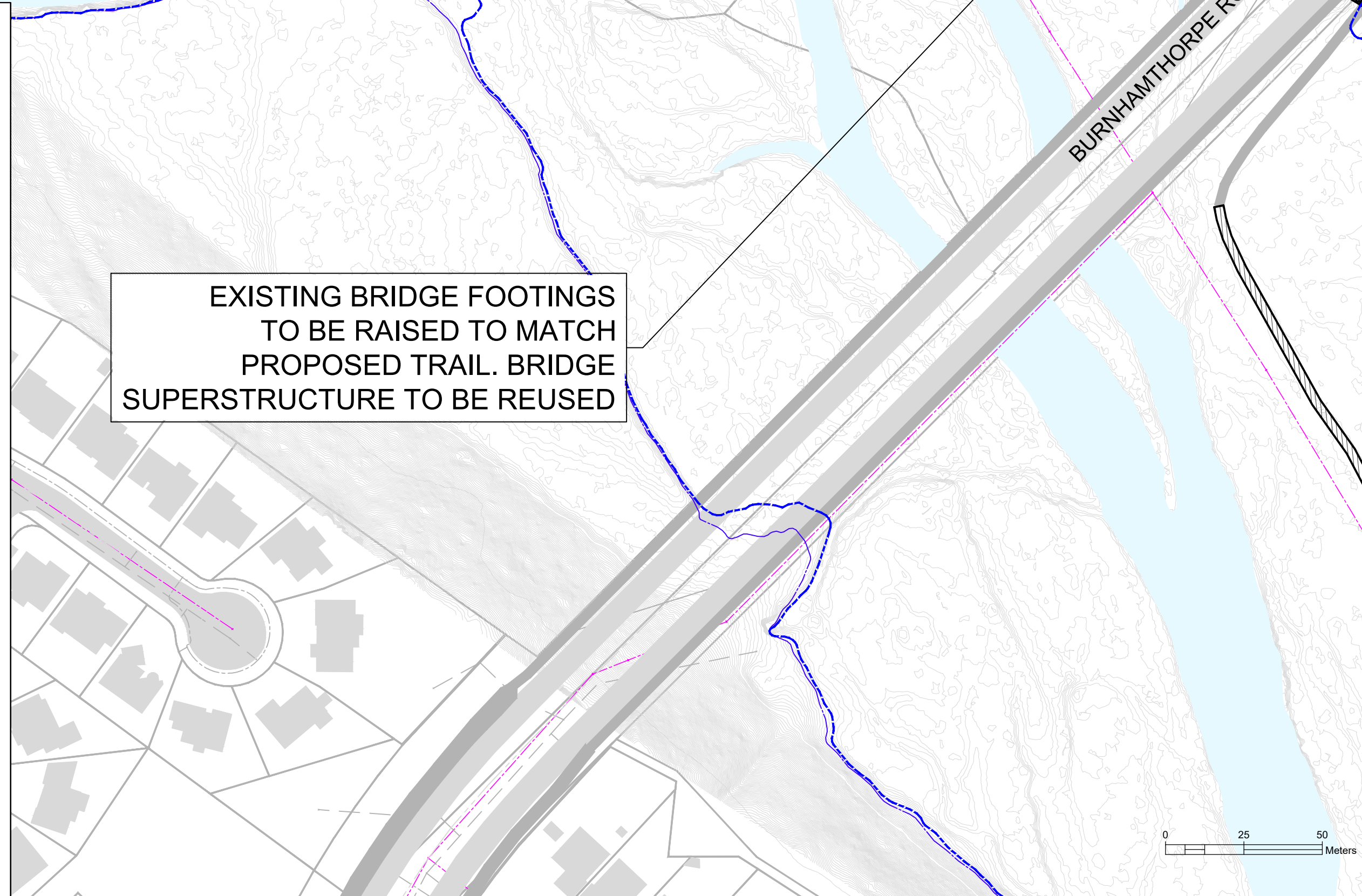
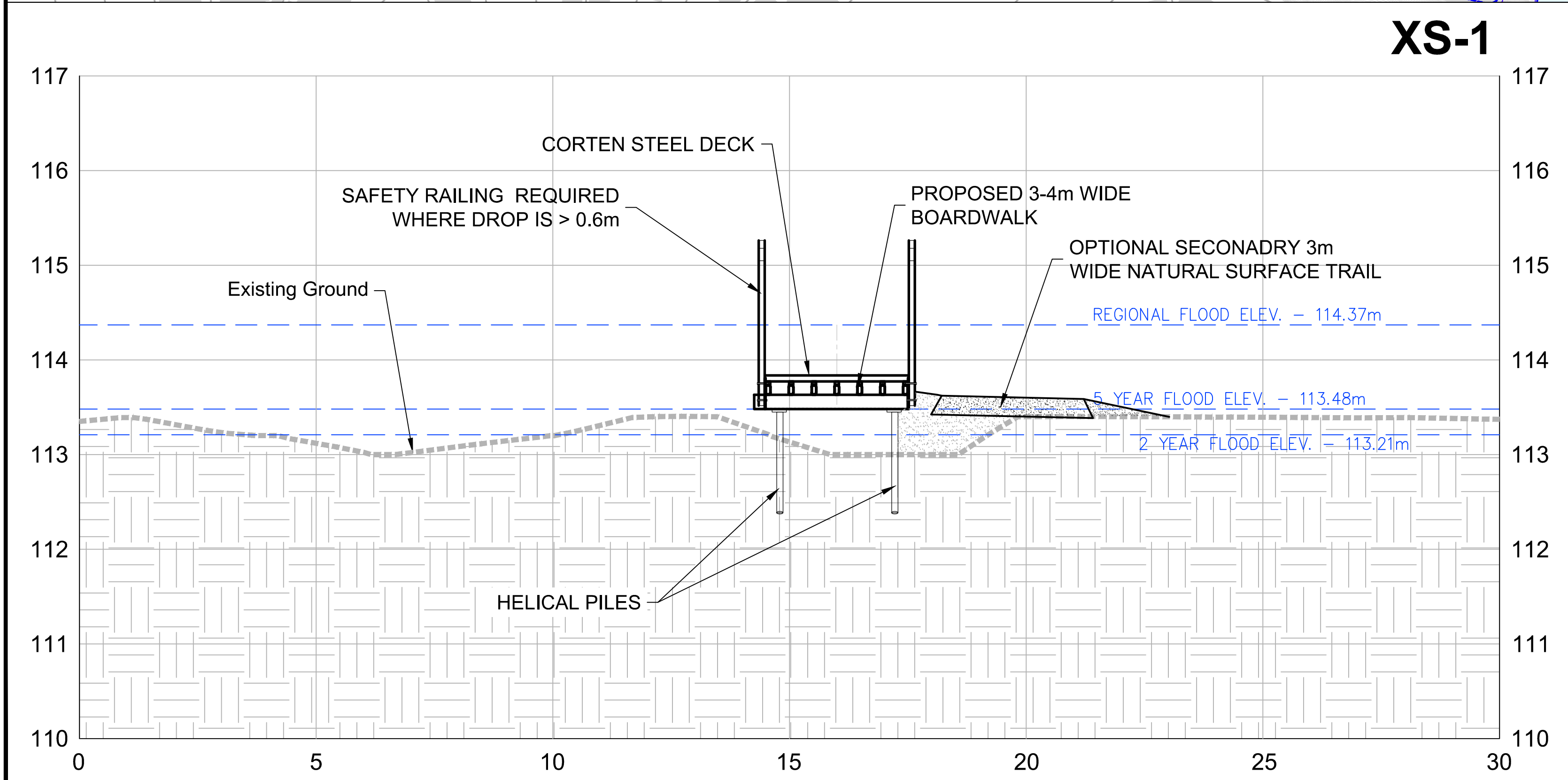
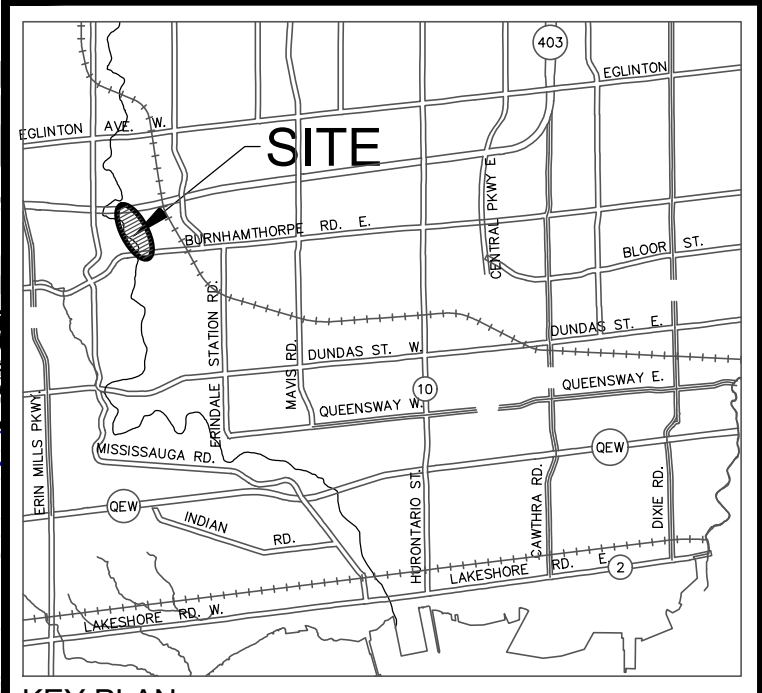




1	R.A.	12/04/2023	ISSUED FOR REVIEW	
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING



KEY PLAN  
N.T.S.

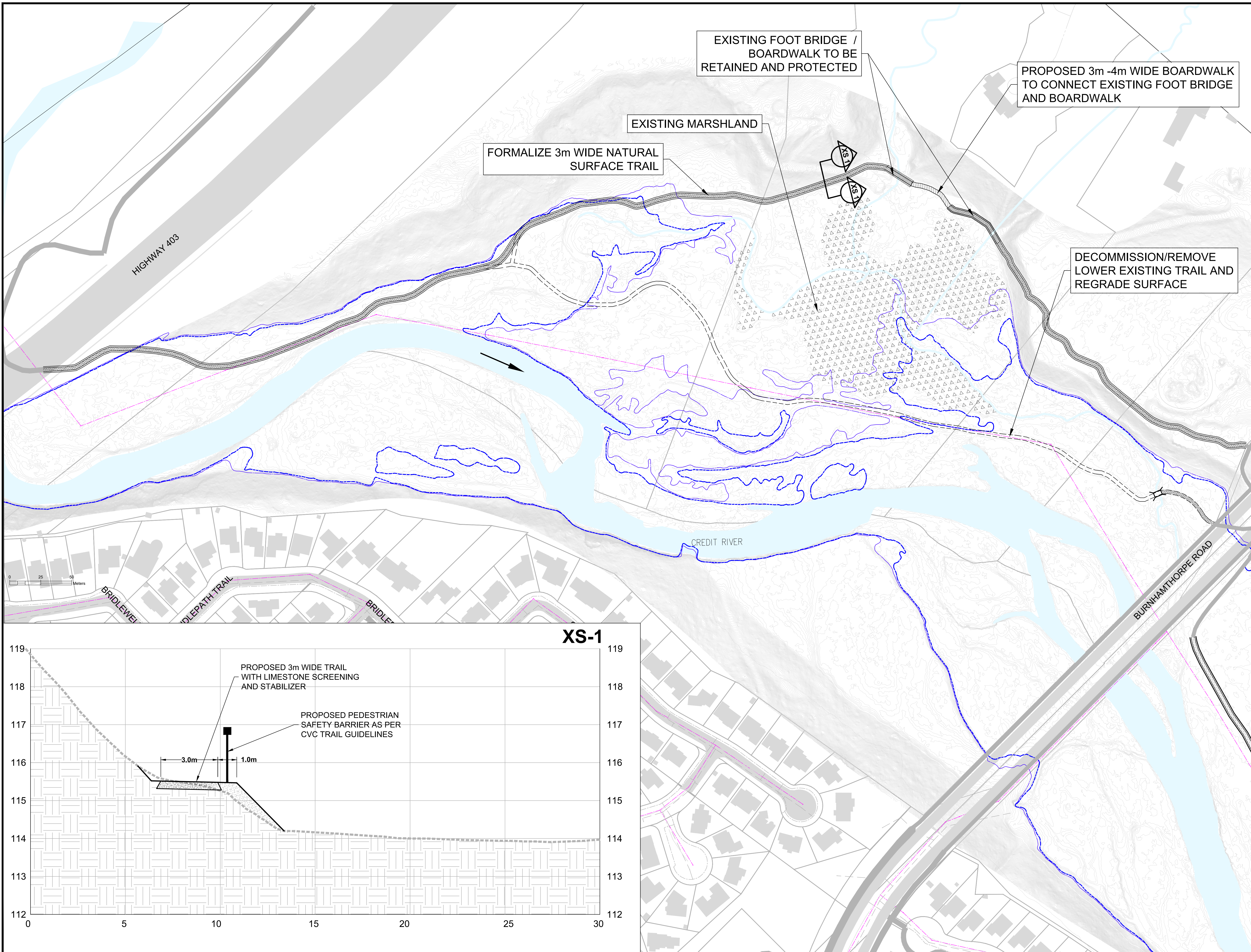
Aquafor Beech Limited  
46-200 2400 SKYHARVEY AVE.  
MISSISSAUGA, ONTARIO L4W 5B2  
PHONE: (905) 629-0099 FAX: (905) 629-0089

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL UPSTREAM  
ALTERNATIVE 3 - BOARDWALK**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.	GP-1
SCALE:	1:1300	DATE:	APRIL 12, 2023	SHEET NO.	3 OF 4



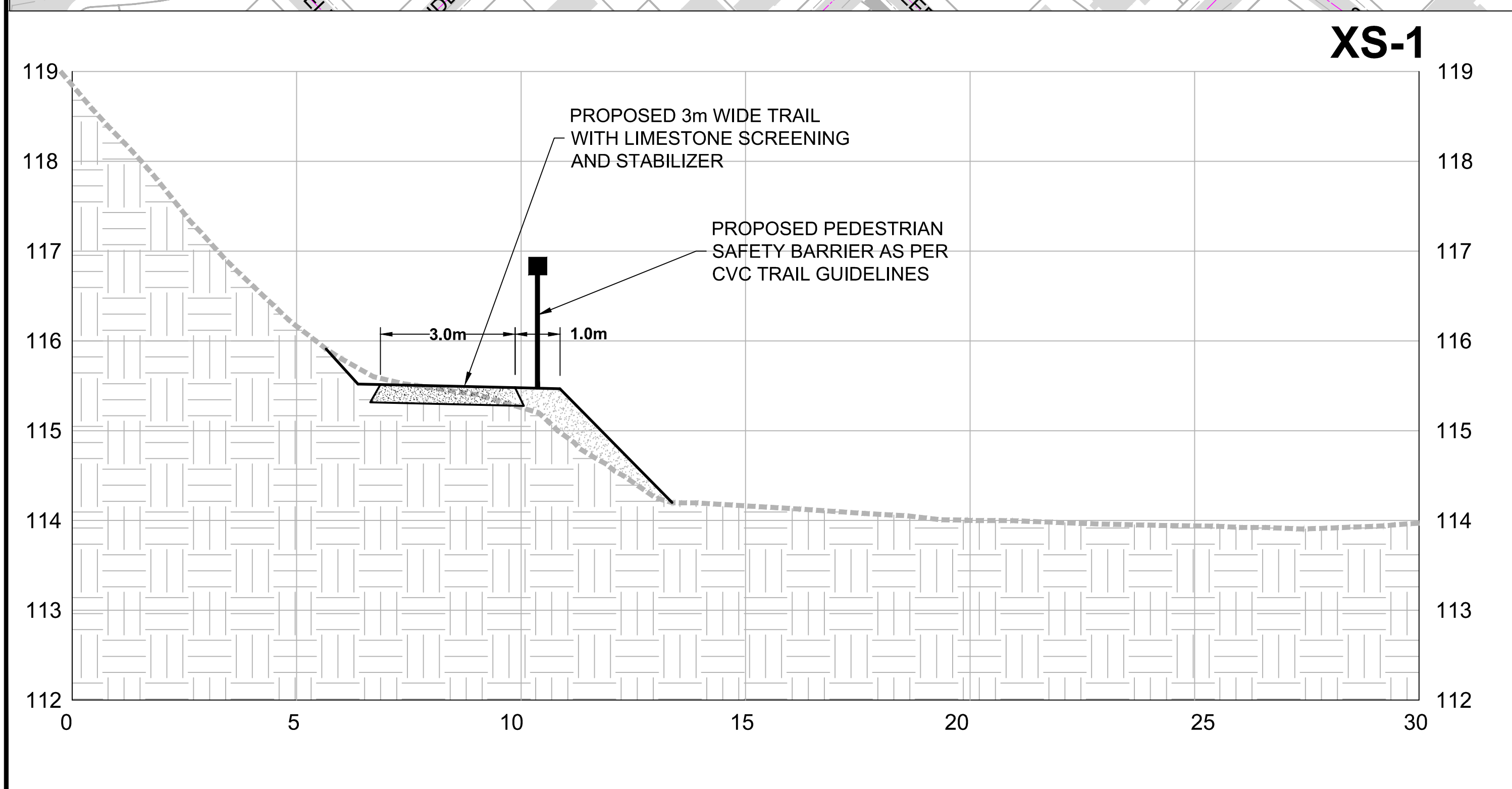
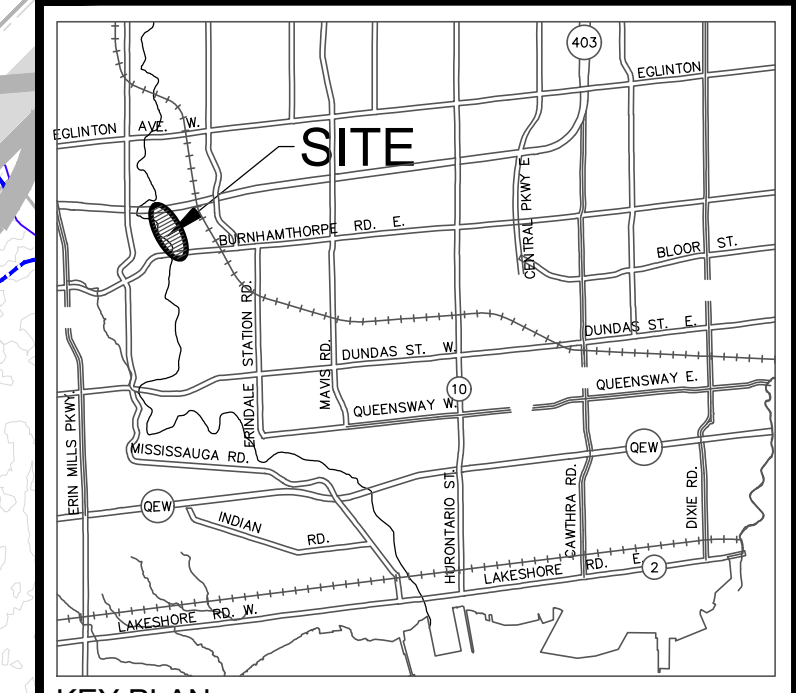


1	R.A.	12/04/2023	ISSUED FOR REVIEW
NO.	BY	DDMMYY	REVISIONS
			CHECKED

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING

DECOMMISSION/REMOVE LOWER EXISTING TRAIL AND REGRADE SURFACE



**KEY PLAN**  
N.T.S.

**Aquafor Beech Limited**  
45-200-2100 SKYWAY AVE.  
MISSISSAUGA, ONTARIO L4W 9S2  
PHONE: (905) 629-0099 FAX: (905) 629-0089

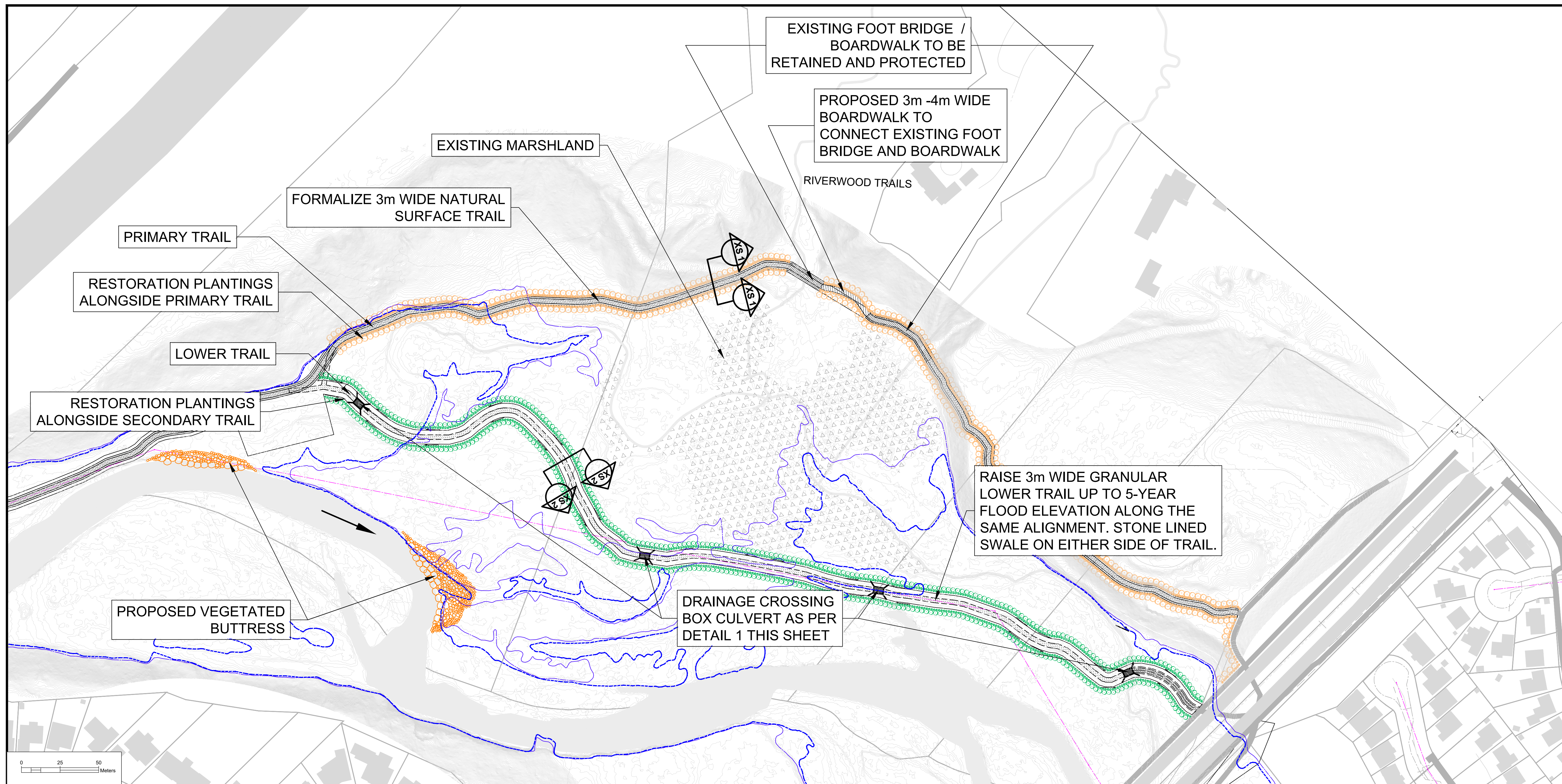
**MISSISSAUGA**

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL UPSTREAM  
ALTERNATIVE 4 - TRAIL REALIGNMENT**

DRAWN BY:	O.C.	CHECKED BY:	R.A.	PROJECT NO.:	XX XXX XXXX
DESIGNED BY:	R.A.	CHECKED BY:		DWG. NO.:	GP-1
SCALE:	1:1300	DATE:	APRIL 12, 2023	SHEET NO.:	4 OF 4

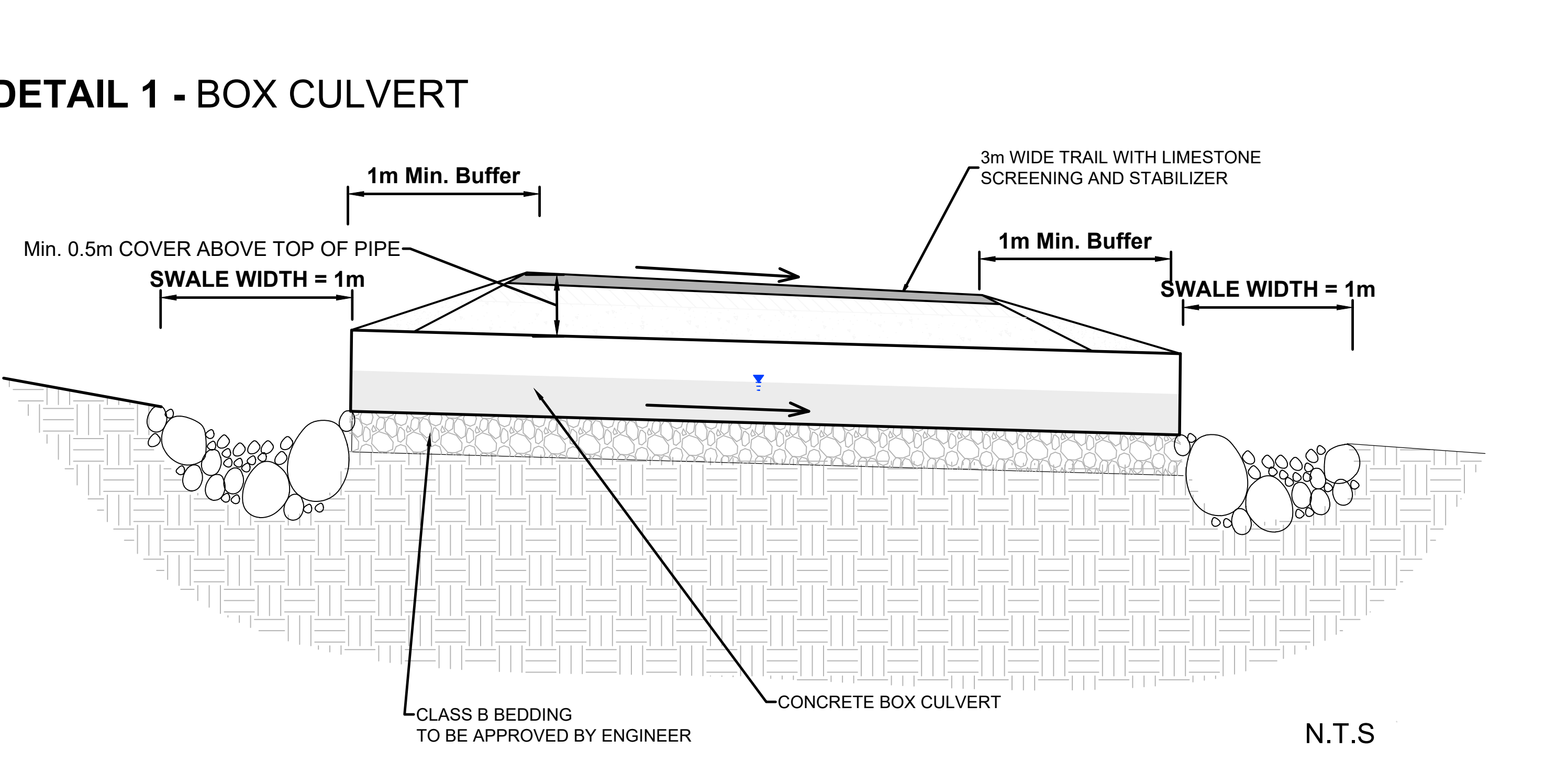
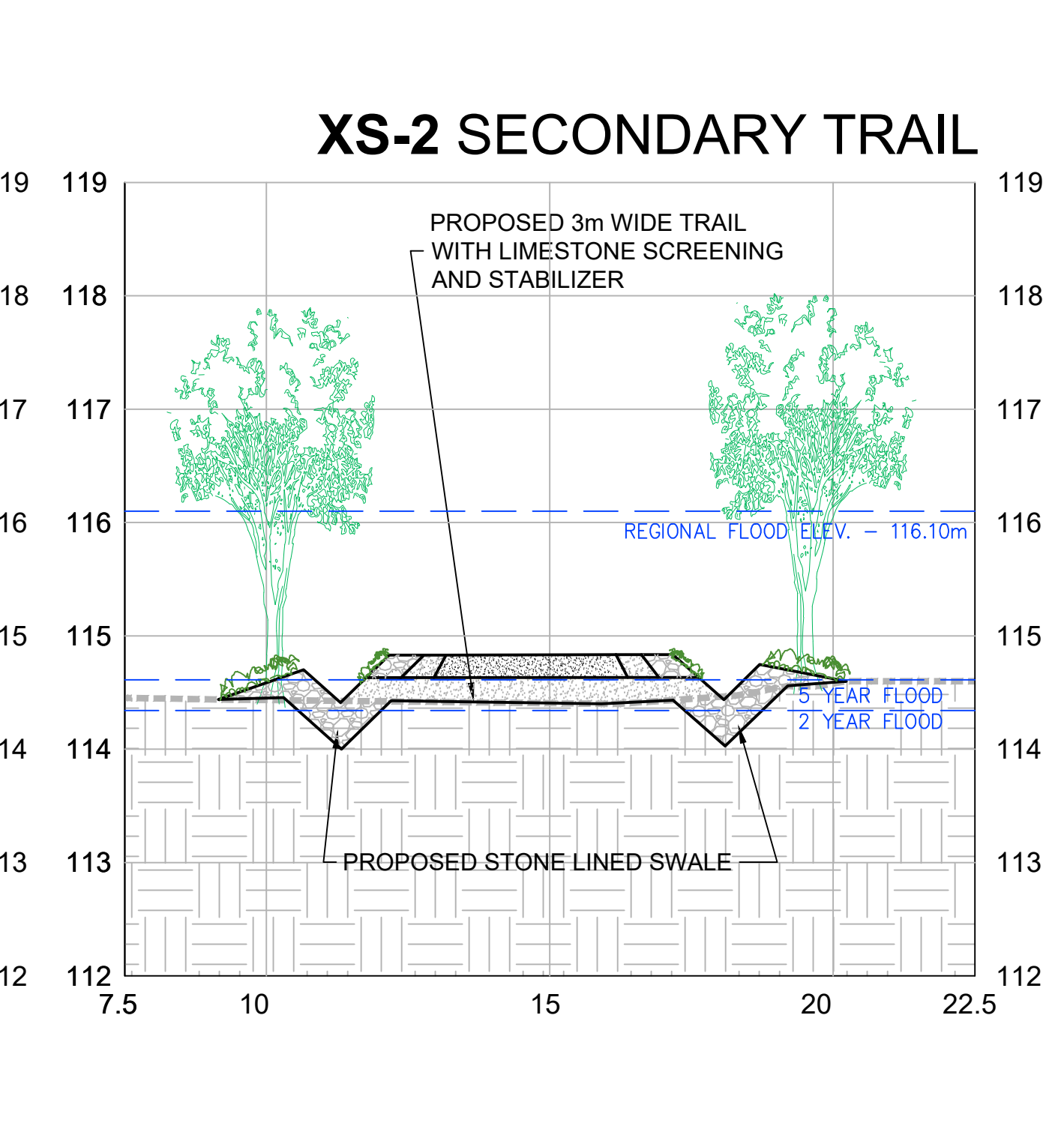
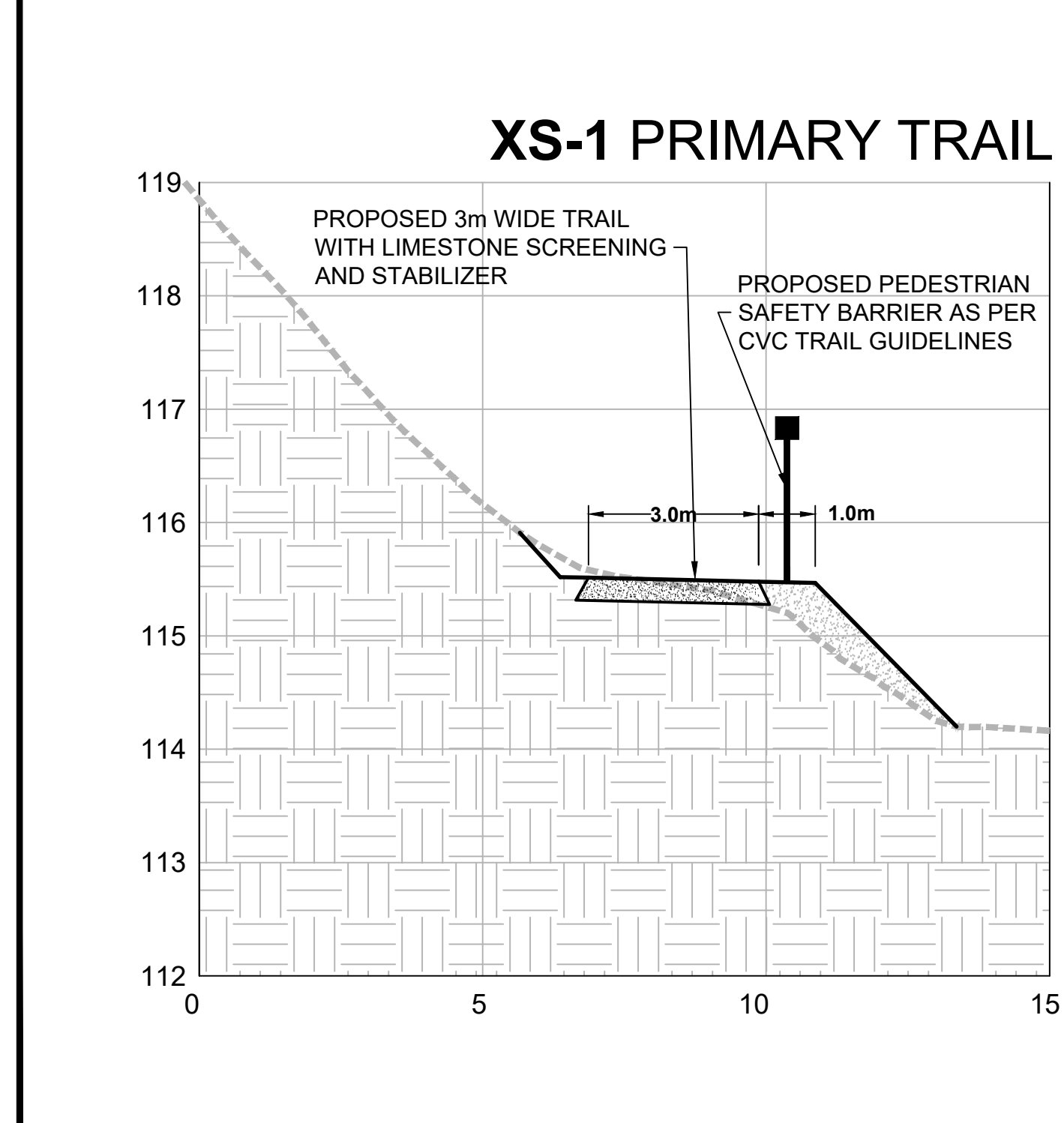
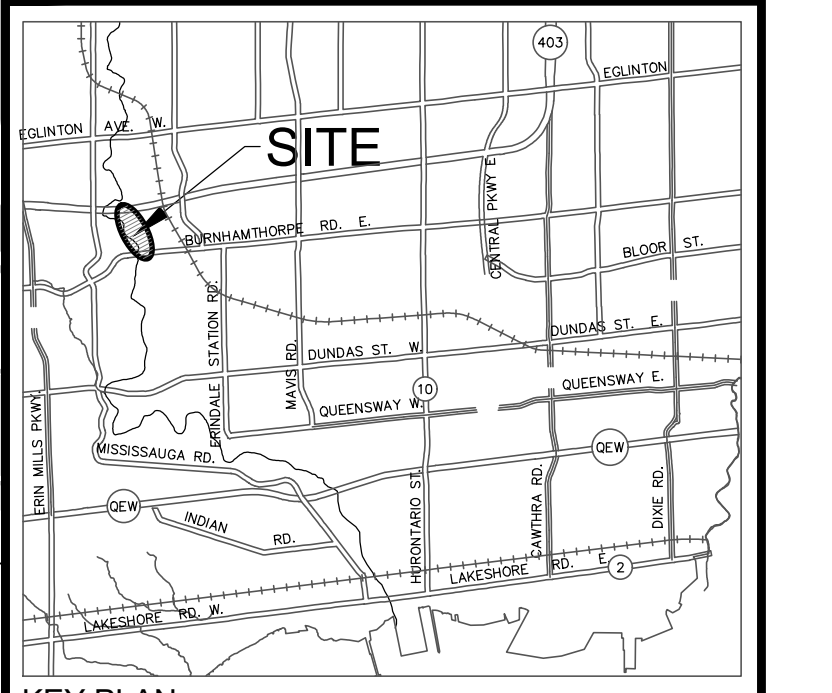




1	R.A.	12/04/2023	ISSUED FOR REVIEW	
NO.	BY	DDMMYY	REVISIONS	CHECKED

**LEGEND**

- PROPERTY/ BUILDING LINE
- WATERCOURSE
- EXISTING TRAIL
- EXISTING CONTOUR
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- 2 YEAR FLOODLINE - EXISTING
- 5 YEAR FLOODLINE - EXISTING
- PRIMARY TRAIL
- LOWER TRAIL
- NEW DRAINAGE CROSSING (BOX CULVERT)



**KEY PLAN**  
N.T.S.

**Aquafor Beech Limited**  
46-200 2400 SKYMARK AVE  
MISSISSAUGA, ONTARIO L4W 9S2  
PHONE: (905) 629-0099 FAX: (905) 629-0089

Project Name:  
**Credit River Erosion Control  
From Dundas Street West to Hwy 403**

Drawing Title:  
**CULHAM TRAIL UPSTREAM  
ALTERNATIVE 5 - HYBRID TRAIL OPTION**

DRAWN BY: O.C.	CHECKED BY: R.A.	PROJECT NO. XX XXX XXXX
DESIGNED BY: R.A.	CHECKED BY:	DWG. NO. GP-1
SCALE: 1:1300	DATE: APRIL 12, 2023	SHEET NO. 5 OF 5