



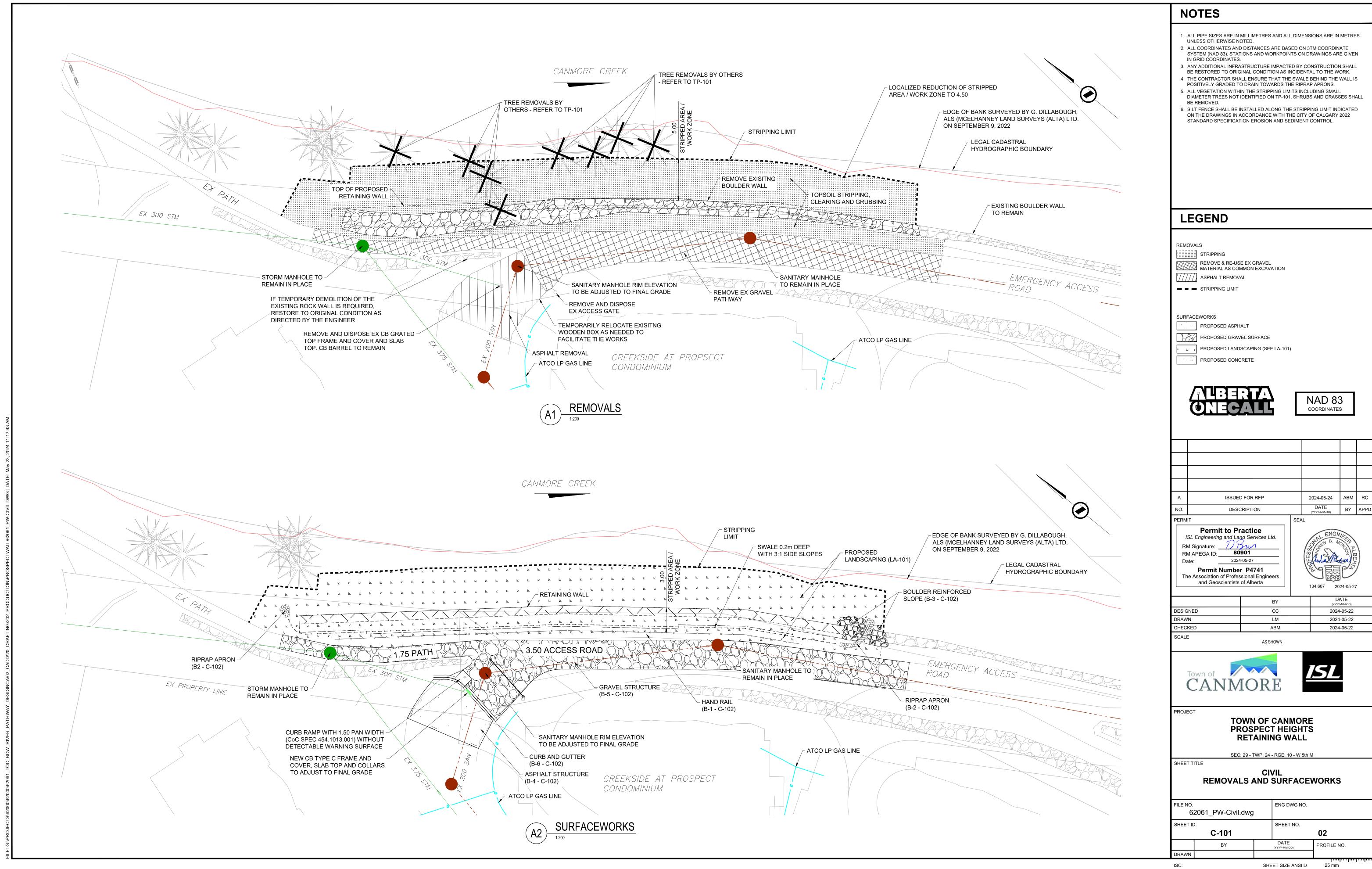
TOWN OF CANMORE PROSPECT HEIGHTS RETAINING WALL

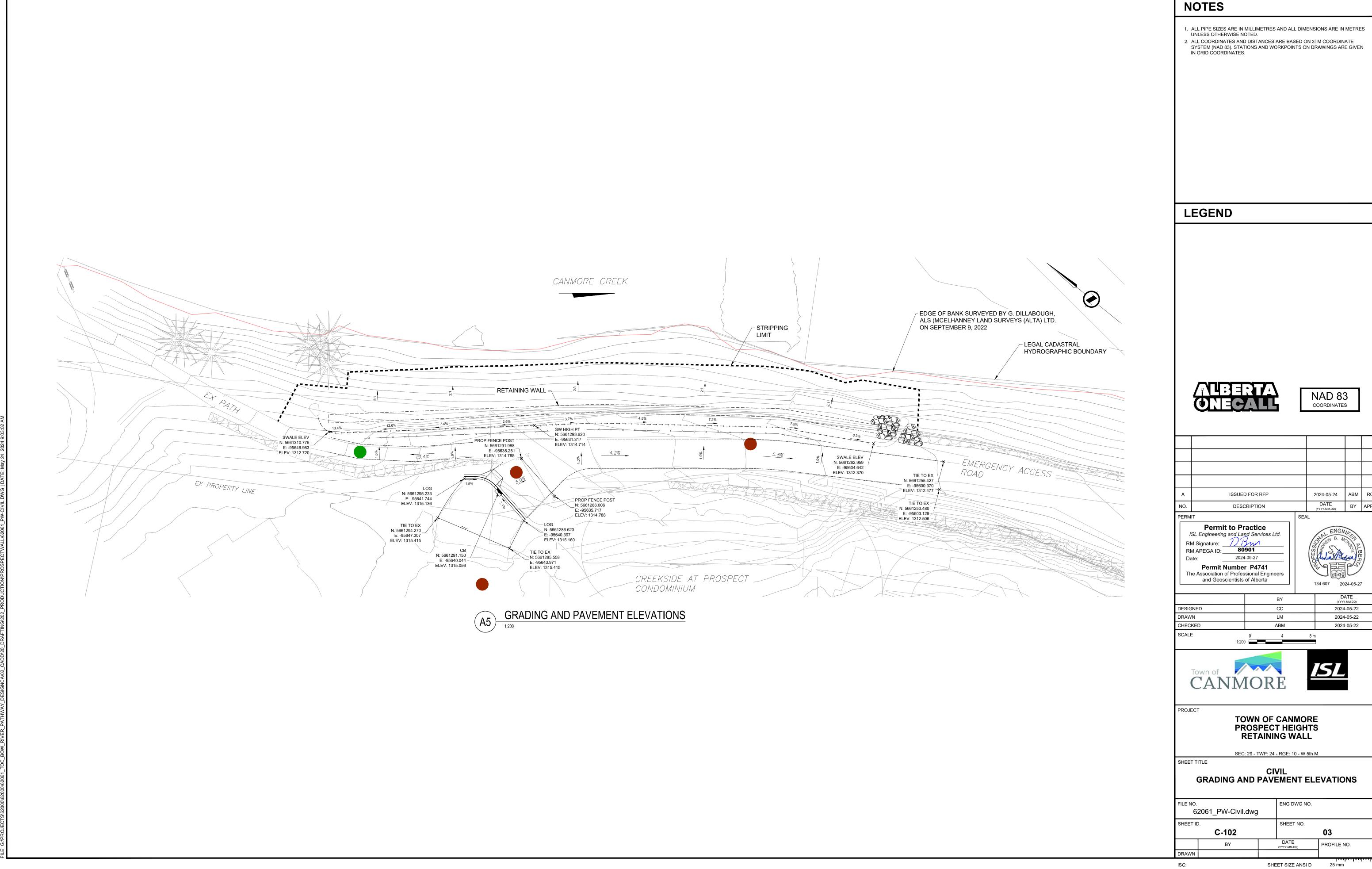
PROJECT AREA

SITE PLAN

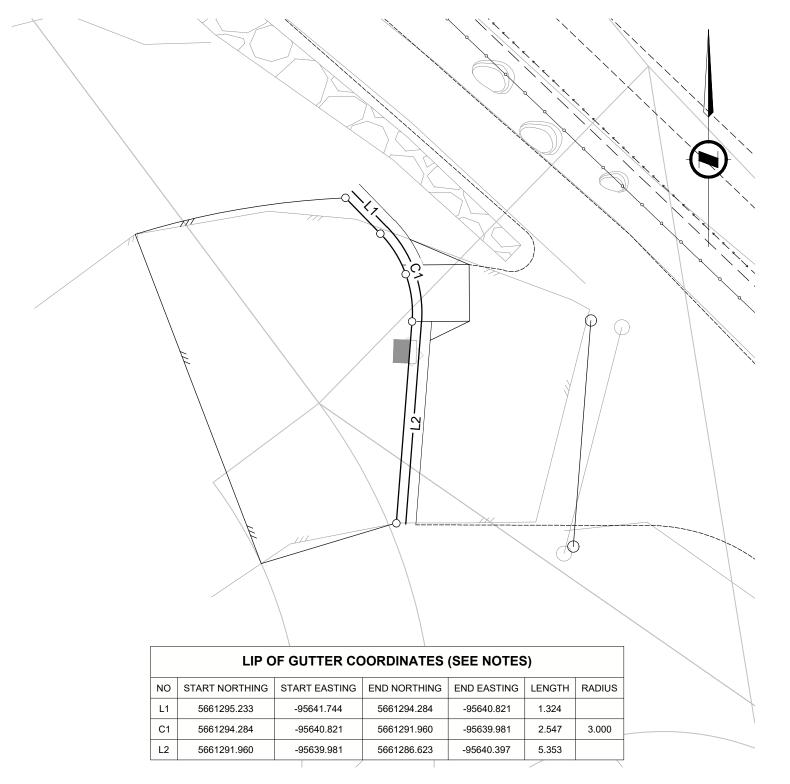
PROJECT NUMBER: CAP7295 ISSUED FOR RFP MAY 24, 2024

SHEET NO SHEET TITLE		SHEET ID			
SENERAL					
1	1 COVER				
CIVIL					
2	REMOVALS AND SURFACEWORKS	C-101			
3 GRADING AND PAVEMENT ELEVATIONS		C-102			
4 DETAILS		C-103			
STRUCTURAL					
5	GABION WALL GENERAL LAYOUT	ST-101			
ANDSCAPE ARCHITECTURE					
6 TREE PROTECTION AND REMOVAL PLAN		TP-101			
7 LANDSCAPING DETAILS		LA-101			

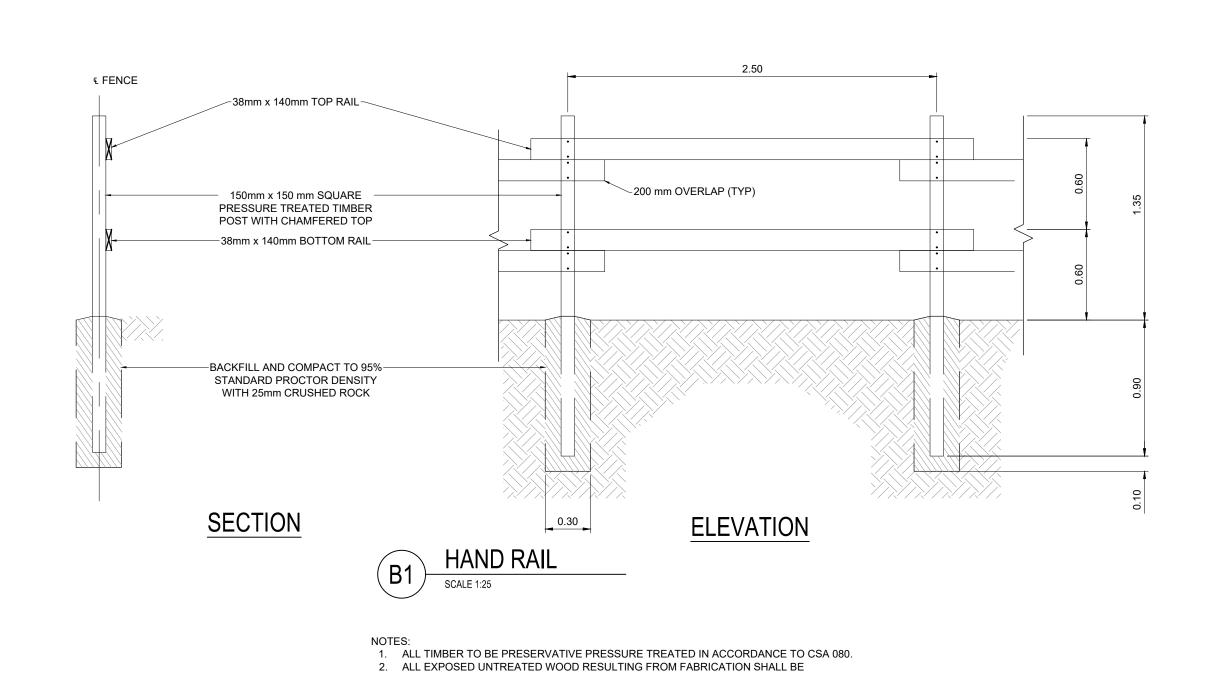




2024-05-24 ABM RC DATE BY APPD





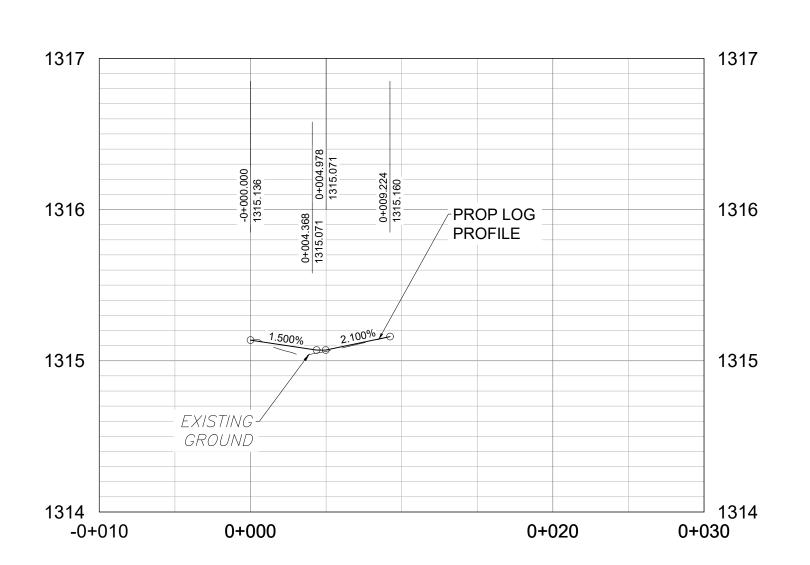


TOUCHED UP IN THE FIELD WITH COPPER NAPTHENATE.

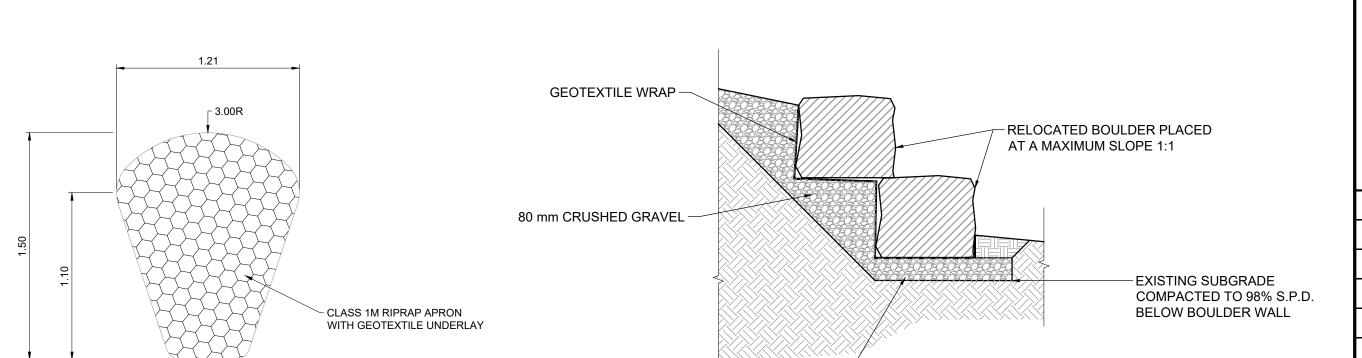
4. LEAVE ½" GAP BETWEEN RAILS ON POSTS.

3. ALL RAILS TO BE ATTACHED TO POSTS ON WITH $\frac{1}{4}$ "x6" LAG BOLTS COMPATIBLE WITH

PRESSURE TREATED LUMBER. MINIMUM 4 BOLTS PER RAIL, 2 AT EACH POST.



PROSPECT HEIGHTS CURB AND GUTTER PROFILE

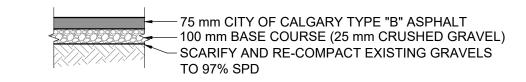




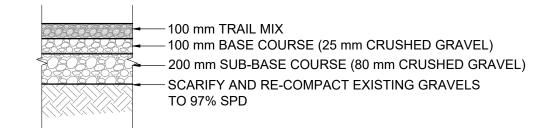
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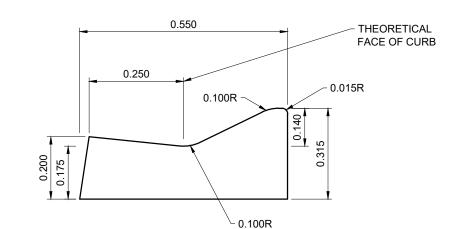
MINIMUM 150mm DEPTH —



B4 ASPHALT STRUCTURE







NOTE: CURB AND GUTTER SHALL BE CITY OF CALGARY 454.1003.008 LOW PROFILE ROLLED CURB WITH 250mm GUTTER, WITH AN INCREASED CURB FACE HEIGHT OF 0.140. 100mm BASE COURSE (25mm CRUSHED GRAVEL) SHALL BE PROVIDED UNDER CURB AND GUTTER.

B6 CURB AND GUTTER

BOULDER REINFORCED SLOPE

NOTES

- 1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83). STATIONS AND WORKPOINTS ON DRAWINGS ARE GIVEN IN GROUND COORDINATES.

LEGEND



NAD 83 coordinates

·				·	
				·	
Α	ISSUED FOR RFP		2024-05-24	ABM	RC
NO.	DESCRIPTION		DATE (YYYY-MM-DD)	BY	APPD
PFRM	IT :	SFAI			

Permit to Practice
ISL Engineering and Land Services Ltd.

RM Signature:
RM APEGA ID:
Date:

Permit Number P4741
The Association of Professional Engineers

and Geoscientists of Alberta

DATE
(YYYY-MM-DD)
2024-05-22

ы		(YYYY-MM-DD)
DESIGNED	CC	2024-05-22
DRAWN	LM	2024-05-22
CHECKED	ABM	2024-05-22
SCALE	AS SHOWN	





TOWN OF CANMORE PROSPECT HEIGHTS RETAINING WALL

SEC: 29 - TWP: 24 - RGE: 10 - W 5th M

CIVIL DETAILS

FILE NO.
62061_Civil_C-102.dwg

SHEET ID.

C-103

BY

DATE
(YYYY-MM-DD)

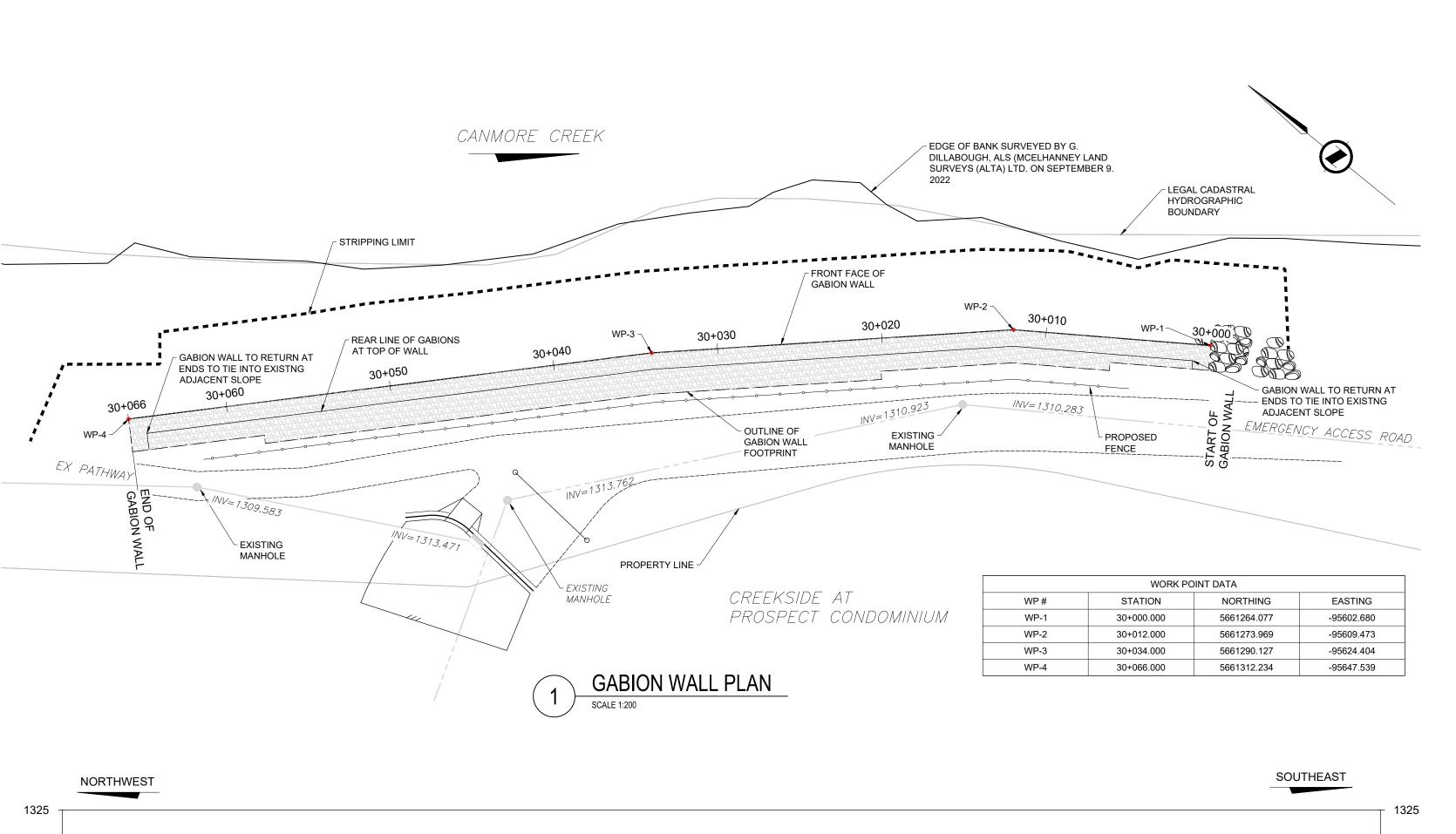
DRAWN

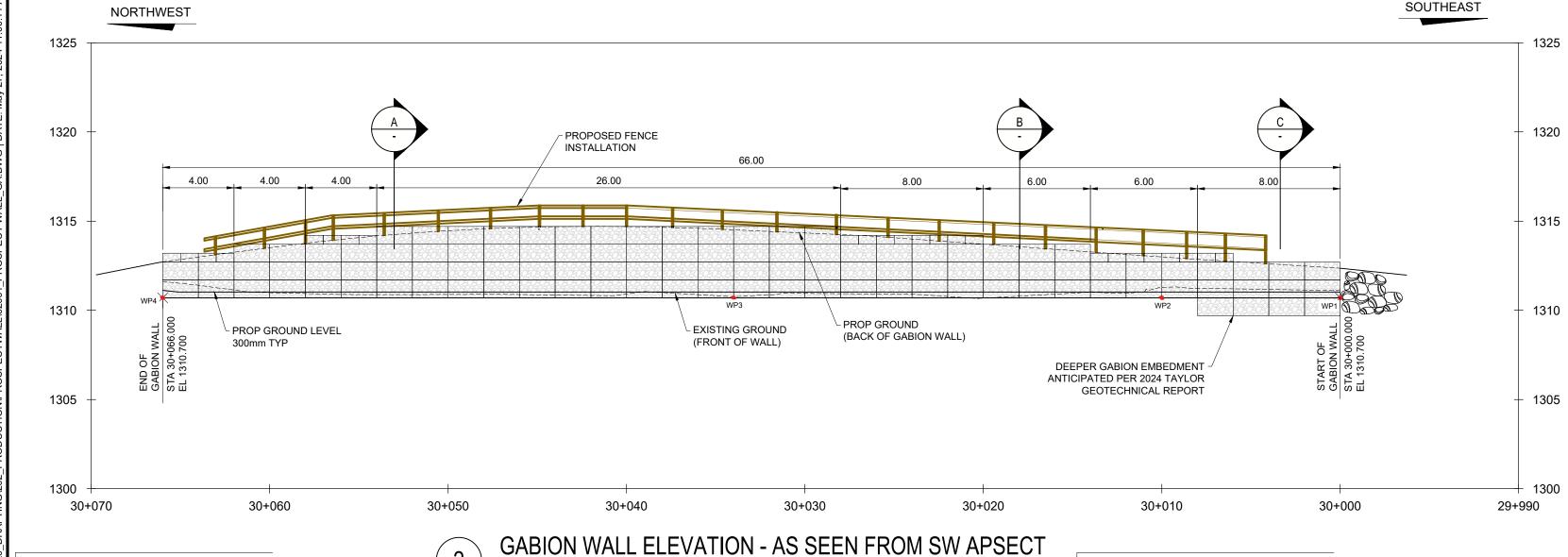
ENG DWG NO.

O4

PROFILE NO.

SHEET TITLE





GABION WALL GENERAL NOTES

1. THE GABION WALL IS A DELEGATED DESIGN ITEM. THE CONTRACTORS SHALL DESIGN THE GABION WALL, INCLUDING THE GABION BASKETS, BASE, BACKFILL AND DRAINAGE SYSTEM AND SUBMIT SHOP DRAWING AND CALCULATIONS TO THE CONSULTANT FOR REVIEW AND COMMENT THEN ACCEPTANCE PRIOR TO CONSTRUCTION.

SCALE 1:200

- 2. BACKFILL SHALL CONSIST OF CLEAN, WELL GRADED CRUSHED GRANULAR COMPACTED TO A MINIMUM OF 98% SPMDD. WITHIN 1,0M OF GABION, A LIGHT COMPACTOR UNIT SHALL BE UTILIZED (LESS THAN 500 LB PLATE TAMPER) REFER TO 2024 GEOTECHNICAL INVESTIGATION - PREPARED BY TAYLOR **GEOTECHNICAL LTD.**
- GABION WIRE, BACKET, FABRICATION, ROCKS, AND CONSTRUCTION REQUIREMENTS SHALL MEET THE PRODUCT STANDARD SPECIFICATION FROM MACCAFERRI OR EQUAL APPROVED DELEGATED DESIGNER.
- AT THE START OF THE GABION WALL INSTALLATION, THE CONTRACTOR MUST ENSURE THAT A GABION WALL DESIGNER REPRESENTATIVE IS ON SITE FOR
- QUALITY CONTROL. THE GENERAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW BY THE ENGINEER OF RECORD. ALLOW ADEQUATE TIME FOR REVIEW BY THE ENGINEER OF RECORD PRIOR TO FABRICATION OR ERECTION. SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO
- SUBMISSION FOR REVIEW BY THE ENGINEER OF RECORD. WHERE INDICATED SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT PROVINCE OR STATE OF JURISDICTION. THE SHOP DRAWING ENGINEER SHALL ENSURE THAT THE FABRICATION AND ERECTION OF THESE ELEMENTS ARE IN ACCORDANCE WITH THEIR DESIGN AND THAT THE DESIGN IS IN ACCORDANCE WITH ALL RELEVANT CODES AND REGULATIONS. SHOP DRAWINGS SHALL BE SUPPLIED FOR REVIEW FOR THE FOLLOWING BUT NOT LIMITED TO:
- A. GABION RETAINING WALL (SEALED BY ENGINEER)

GABION DESIGN NOTES

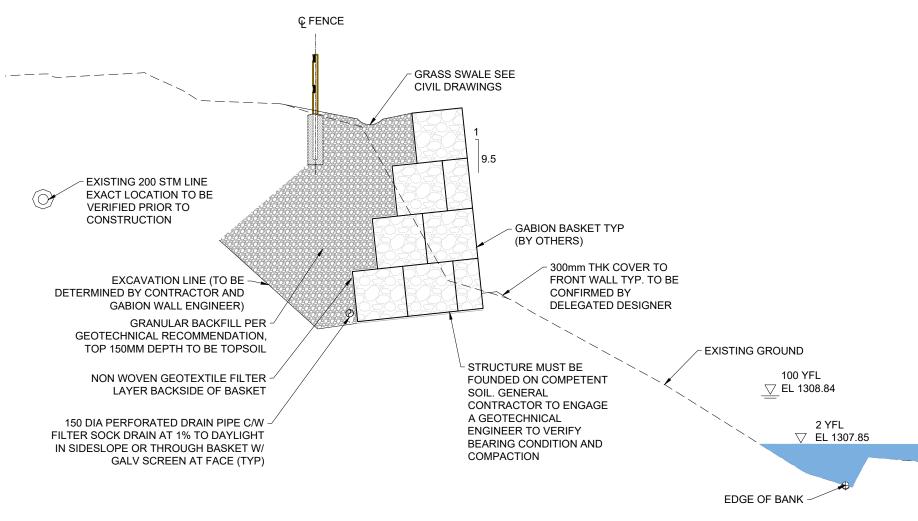
- 1. DESIGN CODE: CSA S6:19 CHBDC
- 2. DESIGN SERVICE LIFE = 75 YEARS
- 3. THE WALL SHALL BE DESIGNED FOR: HORIZONTAL COMPACTION SURCHARGE OF 12kPa AT THE TOP
- OF THE WALL DECREASING LINEARLY TO 0 kPa AT A DEPTH OF 1.7 m
- HORIZONTAL SOIL BACKFILL PRESSURE BASED ON BACKFILL MATERIAL PROPERTIES
- A TWO-AXLE VEHICLE WITH THE FOLLOWING CONFIGURATION
- AXLE 1 LOAD = 15.3 tonne AXLE 2 LOAD = 23.6 tonne
- WHEEL BASE = 7.5m

4. REFER TO GEOTECHNICAL REPORTS:

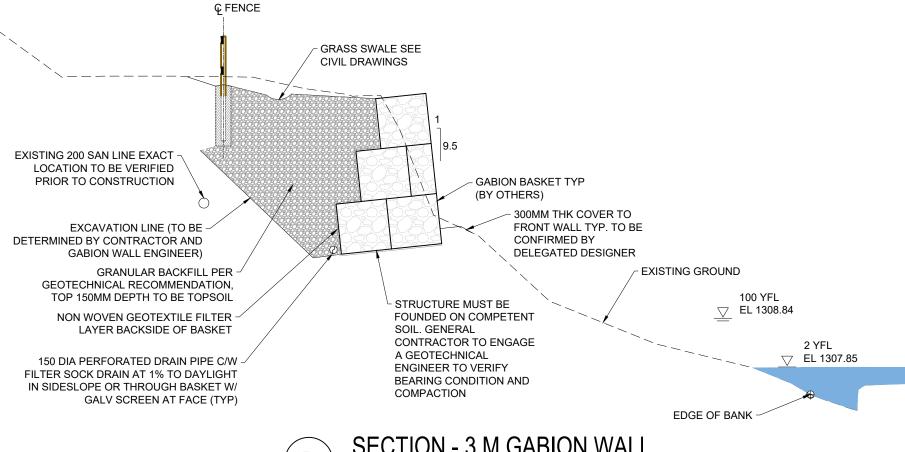
- WIDTH = 2.57m
 - **CANMORE BOW RIVER PATHWAY GEOTECHNICAL INVESTIGATION, FILE CG3608, BY CLIFTON ENGINEERING**
 - **GROUP INC, 24 JUNE, 2022.** RETAINING WALL CONDITION ASSESSMENT BELOW PROSPECT HEIGHTS IN CANMORE, AB. PROJECT NO,

2021-133, BY TAYLOR GEOTECHNICAL, FEBRUARY 3, 2022.

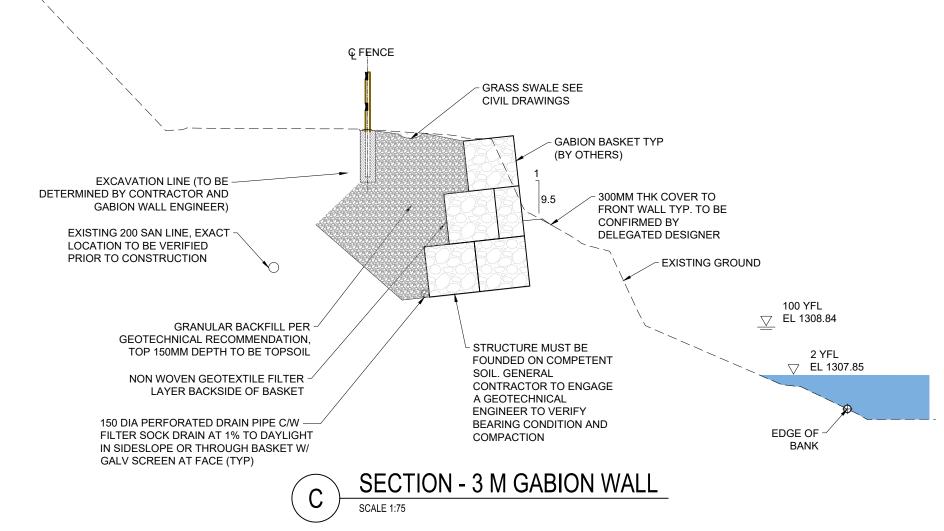
REFER TO GABION SPECIFICATIONS SECTION 3484 FOR ADDITIONAL



SECTION - 4 M GABION WALL



SECTION - 3 M GABION WALL



LEGEND

NOTES

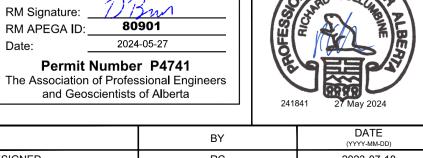


NAD 83 COORDINATES

Α	ISSUED FOR RFP		2024-05-24	ABM	RC
NO.	DESCRIPTION		DATE (YYYY-MM-DD)	BY	APPD
PERM	T	SEA	AL.		<u> </u>

Permit to Practice ISL Engineering and Land Services Ltd. RM Signature: 80901 RM APEGA ID: 2024-05-27 Permit Number P4741

and Geoscientists of Alberta



	BY	(YYYY-MM-DD)		
DESIGNED	RC	2023-07-18		
DRAWN	CC	2023-07-18		
CHECKED	MK	2023-07-18		
SCALE				
	AS SHOWN			





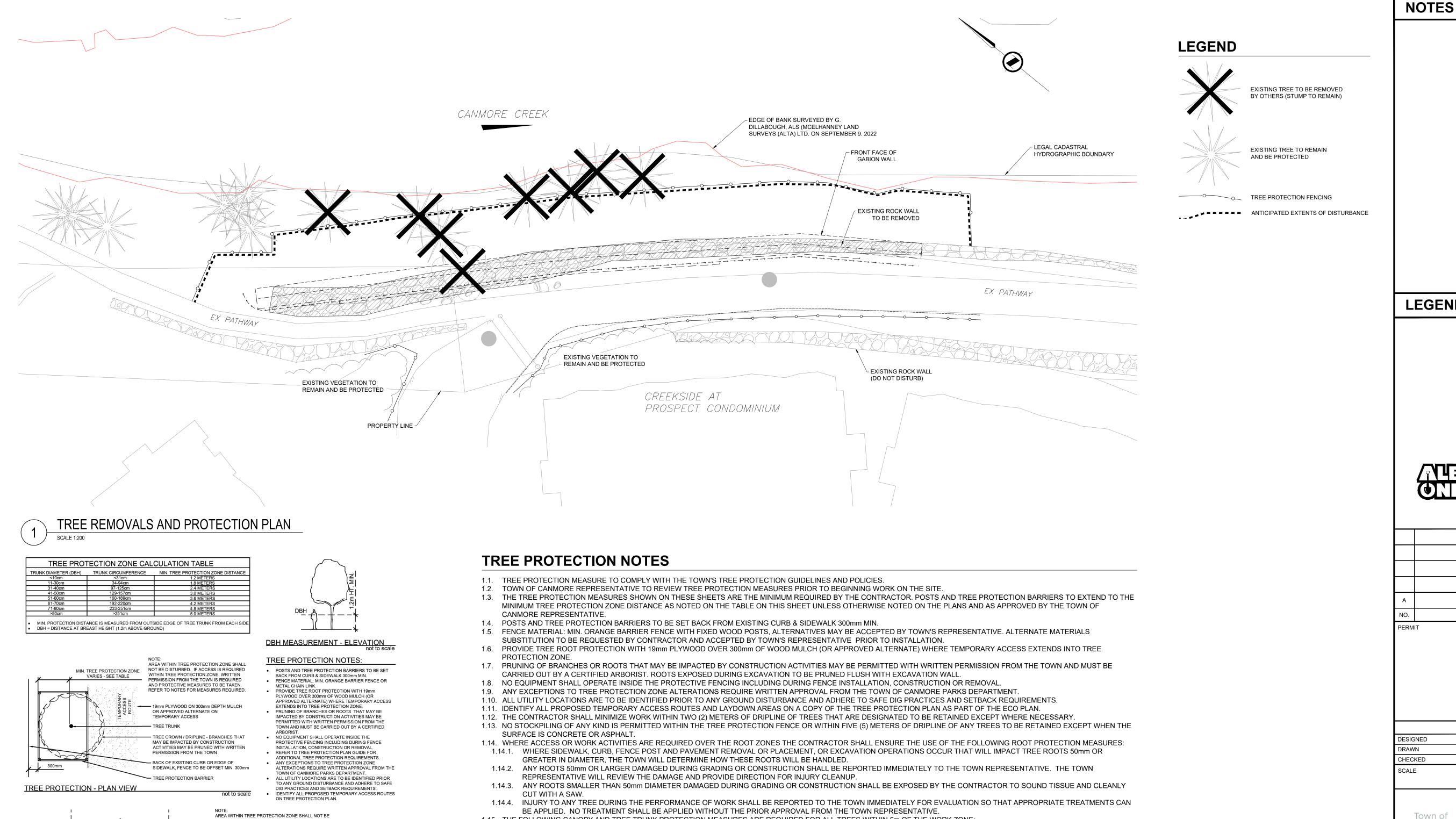
PROJECT **TOWN OF CANMORE** PROSPECT HEIGHTS **RETAINING WALL**

SEC: 29 - TWP: 24 - RGE: 10 - W 5th M

GABION WALL GENERAL LAYOUT

ENG DWG NO. 62061_Prospect Wall_GA.dwg SHEET NO. ST-101 PROFILE NO.

SHEET TITLE



1.15. THE FOLLOWING CANOPY AND TREE TRUNK PROTECTION MEASURES ARE REQUIRED FOR ALL TREES WITHIN 5m OF THE WORK ZONE:

TOWN REPRESENTATIVE SHALL BE PROPERLY EXECUTED BEFORE THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

TOWN WHO SHALL CARRY OUT ANY PRUNING WORK IDENTIFIED IN THE TREE PROTECTION PLAN PRIOR TO START OF CONSTRUCTION.

IF FENCE RELOCATION IS REQUIRED DURING CONSTRUCTION.

PROPERLY EXECUTED BEFORE THE COMMENCEMENT OF WORK IN THE AREA.

DETERMINED BY THE TOWN SHALL BE DEDUCTED FROM PAYMENTS TO THE CONTRACTOR.

1.15.1. FENCE AND POST MATERIALS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR PER THE DRAWINGS AND APPROVED BY THE TOWN PRIOR TO CONSTRUCTION.
1.15.2. EXTENT OF FENCING SHOWN ON DRAWING IS SUBJECT TO CONFIRMATION ON SITE, AND THROUGH DISCUSSIONS WITH THE TOWN OF CANMORE REPRESENTATIVE.

1.15.4. OVERHEAD BRANCHING LIKELY TO BE DAMAGED BY EQUIPMENT OPERATION SHALL BE BROUGHT TO THE ATTENTION OF THE TOWN REPRESENTATIVE PRIOR TO

1.15.3. THE PROTECTIVE FENCING SHALL BE REMOVED ONLY WITH THE APPROVAL OF THE TOWN REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT THE TOWN FOR APPROVAL

1.15.5. REQUIRED TREE PRUNING OF LARGE BRANCHES (LARGER THAN 25mm) FOR CLEARANCE DURING CONSTRUCTION SHALL BE PERFORMED BY THE TOWN. PRUNING SHALL BE

DETERMINE REPAIR TREATMENT AND REPLACEMENT COSTS. PENALTIES MAY INCLUDE COMPENSATION FOR DAMAGE AND/OR REPLACEMENT VALUE TREES ASSESSED PER THE

TOWN'S TREE PROTECTION GUIDELINES AND IN ACCORDANCE TO THE RECOMMENDED METHODOLOGY PROVIDED IN THE MOST CURRENT EDITION OF THE GUIDE FOR PLANT

APPRAISAL AUTHORED BY THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS AND PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. THESE COSTS AS

1.17. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF TEMPORARY TREE PROTECTION MEASURES AT CONSTRUCTION COMPLETION AFTER APPROVAL BY THE TOWN. CONTRACTOR

TO MAKE REPAIRS TO LANDSCAPED AREAS DISTURBED DURING REMOVAL OF TEMPORARY TREE PROTECTION MEASURES TO THE SATISFACTION OF THE TOWN.

1.15.6. THE CONTRACTOR SHALL IDENTIFY ANY REQUIRED PRUNING IN THE TREE PROTECTION PLAN SECTION OF THE ECO PLAN. THE COST OF THIS SHALL BE BORNE BY THE

1.16. PENALTIES: IF DAMAGE, OR LOSS OF TREES, OCCURS AS A RESULT OF DAMAGE OR THE CONTRACTOR'S FAILURE TO FOLLOW THE FOREGOING MEASURES, THE TOWN WILL

COMMENCEMENT OF CONSTRUCTION ACTIVITIES. PREVENTATIVE MEASURES (PRUNING OR TYING BACK OF SMALL BRANCHES LESS THAN 25mm) AS APPROVED BY THE

DISTURBED. IF ACCESS IS REQUIRED WITHIN TREE PROTECTION ZONE. WRITTEN PERMISSION FROM THE

TAKEN. REFER TO NOTES FOR MEASURES REQUIRED.

EXISTING TREE WITHIN TREE PROTECTION

ZONE TO REMAIN AND BE PROTECTED

TREE PROTECTION APPROVAL SIGNAGE

BRANCHES PRUNED BY A CERTIFIED ARBORIST

WOODEN POST OR APPROVED ALTERNATE:

- MAX. 2.5m BETWEEN POSTS - DO NOT INSTALL POST ON OR THROUGH ROOTS

19mm PLYWOOD ON 300mm DEPTH MULCH OR

RRIER FENCING: HIGH DENSITY ORANGE

- ROOTS PRUNED BY A CERTIFIED ARBORIST WITH

WRITTEN APPROVAL FROM THE TOWN

BELOW SOIL SURFACE

TREE PROTECTION DETAIL

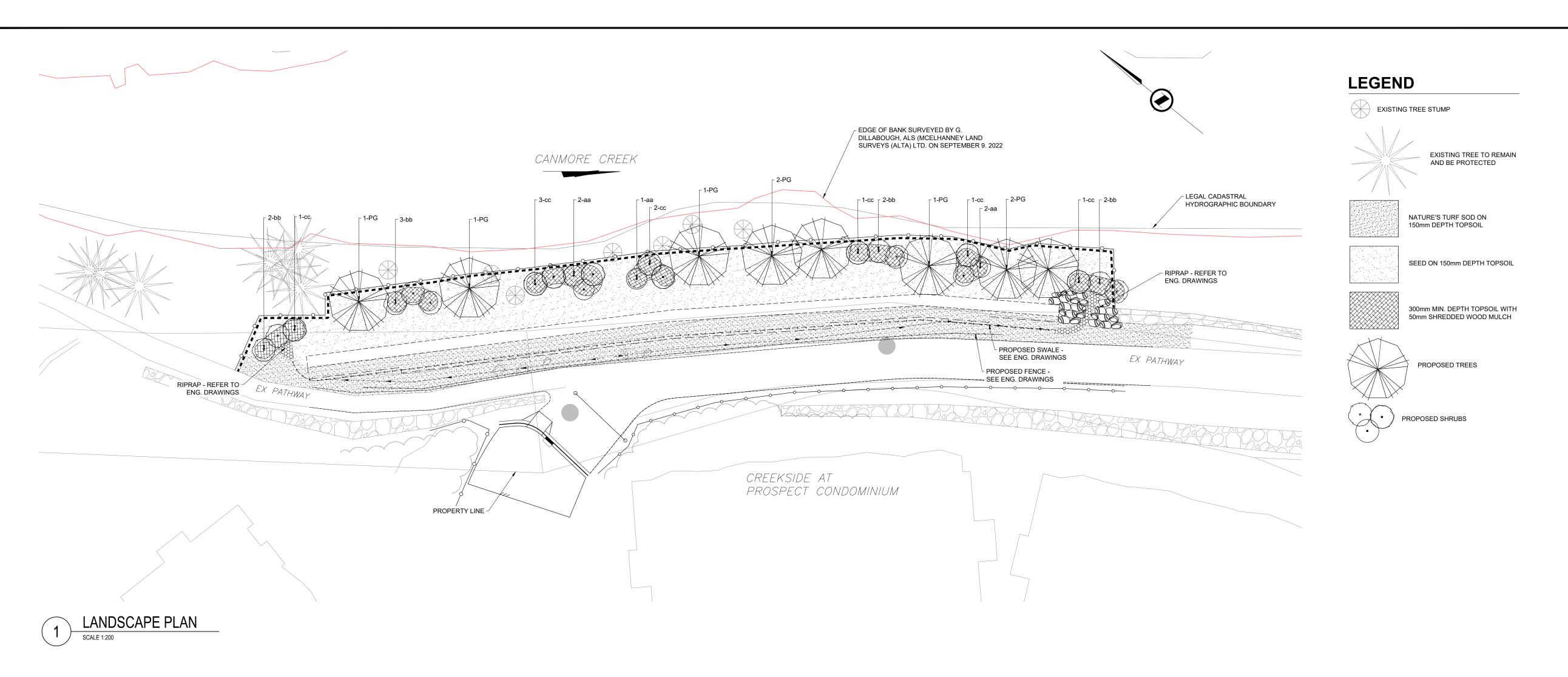
TREE PROTECTION - ELEVATION VIEW

TREE PROTECTION ZONE TO EXTEND 1200mm

APPROVED ALTERNATE ON TEMPORARY ACCESS

POLYETHYLENE OR CHAIN LINK ALONG PERIMETER

LEGEND NAD 83 COORDINATES ISSUED FOR RFF DATE DESCRIPTION SEAL May. 23 2024 The Alberta DATE BY DESIGNED SP 2024-05-01 SP 2024-05-09 JS 2024-05-10 AS SHOWN PROJECT **TOWN OF CANMORE** PROSPECT HEIGHTS RETAINING WALL SEC: 29 - TWP: 24 - RGE: 10 - W 5th M SHEET TITLE TREE PROTECTION PLAN ENG DWG NO. 62061_Prospect Wall_LA.dwg SHEET NO. **TP-101** DATE PROFILE NO. BY SHEET SIZE ANSI D



SEED MIX

FESTUCA SAXIMONTANA DESCHAMPSIA CESPITOSA CALAMOVILFA LONGIFOLIA KOELERIA MACRANTHA LINUM LEWISII SOLIDAGO MISSOURIENSIS ROCKY MOUNTAIN FESCUE TUFTED HAIR GRASS SAND GRASS JUNE GRASS BLUE FLAX LOW (MISSOURI) GOLDENROD	40 25 12 8 5
SOLIDAGO MISSOURIENSIS LOW (MISSOURI) GOLDENROD	5

PLANT LIST

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
TREE	S				
PG	8	PICEA GLAUCA	WHITE SPRUCE	2500mm HT.	BALL & BURLAP
SHRU	JBS				
aa bb	5 9	CORNUS SERICEA	RED OSIER DOGWOOD SANDBAR WILLOW	600mm HT. 600mm HT.	#5 CONTAINER #5 CONTAINER
CC	9	SALIX INTERIOR SALIX LUTEA	YELLOW WILLOW	600mm HT.	#5 CONTAINER #5 CONTAINER

NOTES

GENERAL NOTES:

- 1) ALL WORK TO COMPLY WITH TOWN OF CANMORE ENGINEERING DESIGN AND CONSTRUCTION GUIDELINES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 2) CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO EXISTING LANDSCAPED AREAS AT THE CONTRACTORS EXPENSE AND TO THE OWNER'S
- REPRESENTATIVE'S SATISFACTION.

 3) ALL UNIT QUANTITY TOTALS SHALL BE BASE ON ACTUAL INSTALLED AMOUNTS VERIFIED BY ON SITE
- MEASUREMENTS.
 4) SUBSTITUTIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE CONSULTANT PRIOR TO CONSTRUCTION START-UP
- 5) CONTRACTOR TO ENSURE ALL REQUIRED SUBMITTALS ARE COMPLETED AND APPROVED PRIOR TO START OF CONSTRUCTION.

LEGEND





Α	ISSUED FOR RFP		2024-05-24	ABM	RC
NO.	DESCRIPTION		DATE (YYYY-MM-DD)	BY	APPD
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PERMIT



May. 23 2024 The Alberta

	ы	(YYYY-MM-DD)
DESIGNED	SP	2024-05-01
DRAWN	SP	2024-05-09
CHECKED	JS	2024-05-10
SCALE	AS SHOWN	





PROJECT

SHEET TITLE

TOWN OF CANMORE PROSPECT HEIGHTS RETAINING WALL

SEC: 29 - TWP: 24 - RGE: 10 - W 5th M

LANDSCAPING DETAILS

FILE NO.		ENG DWG NO.			
62061_Prospect Wall_LA.dwg					
SHEET ID.			SHEET NO.		
	LA-101			07	
	BY		DATE (YYYY-MM-DD)	PROFILE NO.	
DRAWN					

SURROUND NEW PLANTINGS TO COLLECT WATER.

50mm DEPTH SHREDDED WOOD MULCH

SOIL MEDIA, MODERATELY COMPACTED. ENSURE STABILITY OF ROOT BALL DEPTH PER PLAN.

FORM PEDESTAL, COMPACT SOIL UNDER AND BESIDE ROOTBALL TO STABILIZE TREE.

TREE TO BE SET PLUMB IN CENTER OF TREE PIT WITH TOPMOST STRUCTURAL ROOTS WITHIN 25mm OF FINISH GRADE.

TREE WELL APPROX. 100mm DEEP TO

SCARIFY BOTTOM AND SIDES OF PLANTING BED TO 150mm DEPTH.

SUBGRADE

NOTES:

PRUNE ONLY DEAD, BROKEN OR DISEASED BRANCHES TO MAINTAIN

PROPER SHRUB AND TREE FORM.

TREES AND SHRUBS TO BE PLACED AS PER PLANTING PLAN.
BREAK UP ROOTS IN ROOTBOUND POTS.

BACKFILL IN LIFTS UP TO 150mm AND COMPACT BY FOOT BETWEEN LIFTS.

PLANTING DETAIL

SCALE 1:10