



Northern Expansion Project -
Project Vicinity

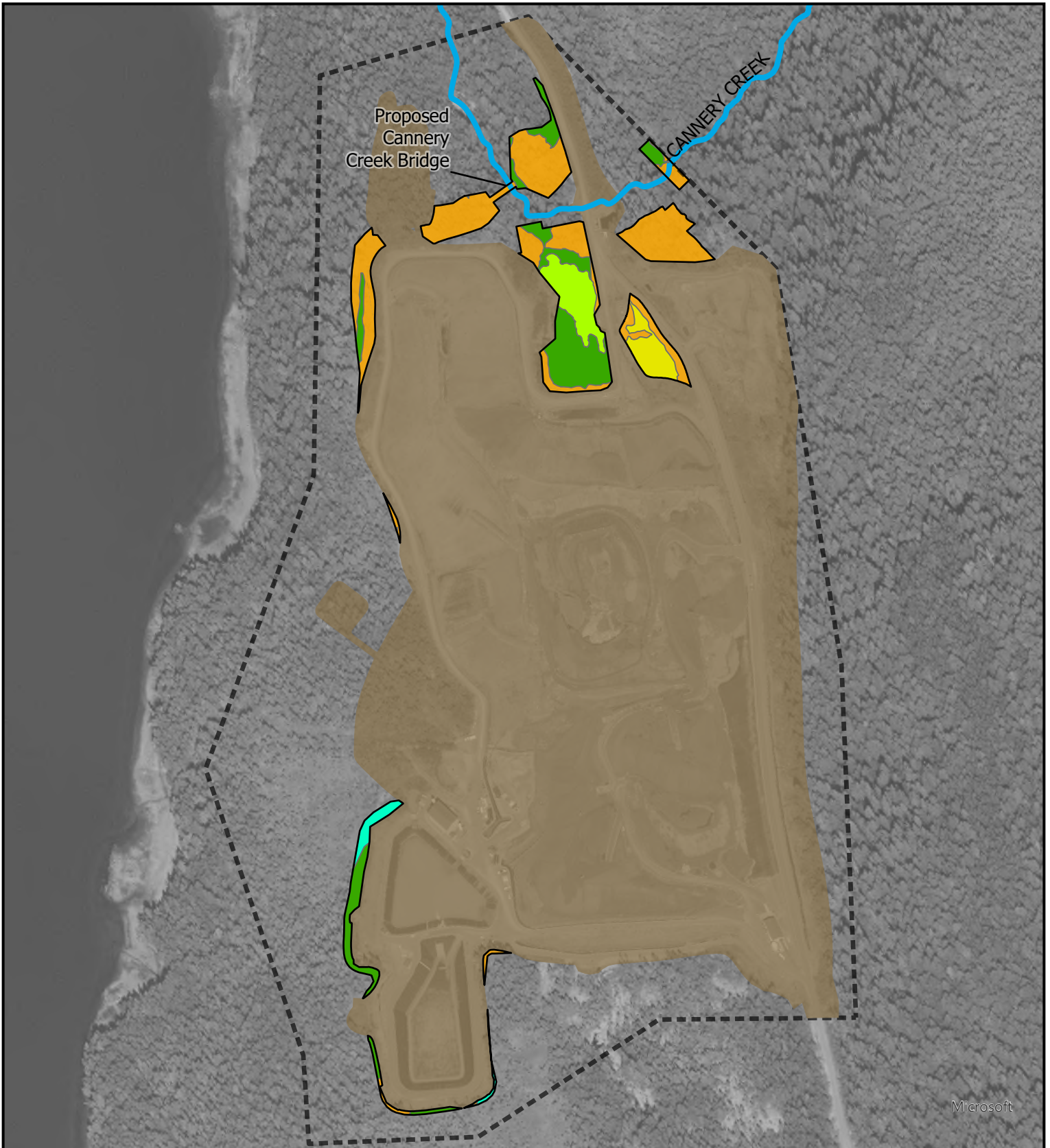
Hecla Greens Creek

 Project Location
 Community

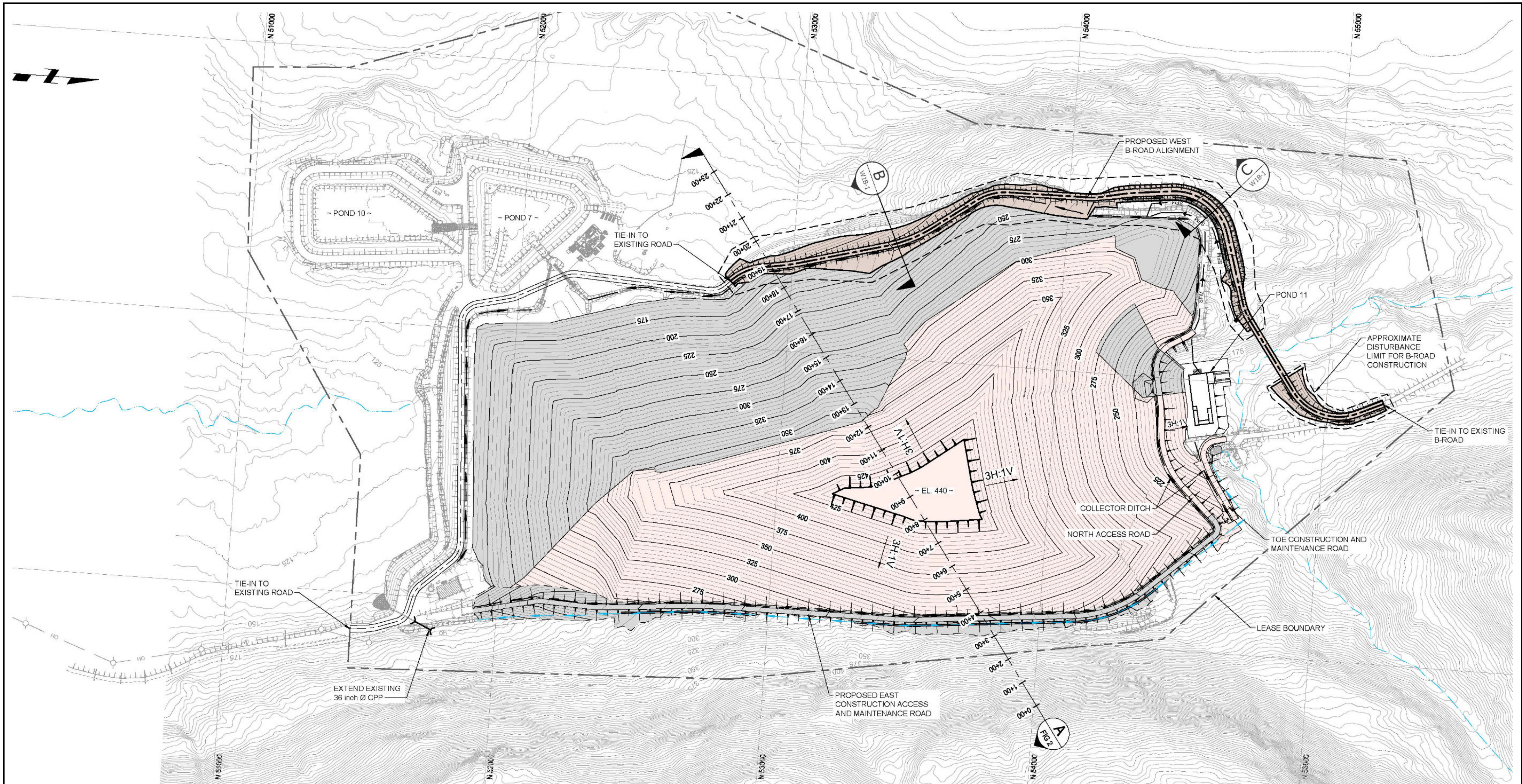


0 5 10
Miles
HORIZONTAL DATUM:
NAD 1983, State Plane Zone 4

APPLICANT: Hecla Greens Creek
 FILE NO: POA-1988-269
 WATERWAY: Cannery Creek
 LOCATION: 58.1163N 134.7467W
 SHEET 1 OF 7
 DATE: 02/05/2025



<div><div>Northern Expansion Project Modified Alternative B - Wetland Impact</div><div>Hecla Greens Creek</div></div> <div><div><div></div><div>0200400 Feet</div><div>HORIZONTAL DATUM: NAD 1983, State Plane Zone 4</div></div></div>	<div><div><div> Existing Permitted Disturbance Area</div><div> Lease Boundary</div><div> NEP Additional Proposed Disturbance Area</div><div> Stream</div></div><div><div> Wetland Impact</div><div> PEM1H</div><div> PFO4</div><div> PEM1</div><div> PEM1 cleared</div></div></div>	<div>APPLICANT: Hecla Greens Creek</div> <div>FILE NO: POA-1988-269</div> <div>WATERWAY: Cannery Creek</div> <div>LOCATION: 58.1163N 134.7467W</div> <div>SHEET 2 OF 7</div> <div>DATE: 02/05/2025</div>
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NOTE

1. EXISTING TOPOGRAPHY AND INFRASTRUCTURE LOCATIONS PROVIDED BY HECLA GREENS CREEK MINING COMPANY.

LEGEND

EXISTING	PROPOSED
MINE LEASE BOUNDARY	PROPOSED TOP OF SLOPE
EXISTING TOP OF SLOPE	CLEAN WATER DIVERSION DITCH
EXISTING DITCH	CONTACT WATER COLLECTION DITCH
SURFACE CONTOURS (MAJOR)	CULVERT
SURFACE CONTOURS (MINOR)	STAGE 2 FULL BUILDOUT
CREEK	RELOCATED B-ROAD
OH	
TRANSMISSION LINE AND POLES	
CURRENTLY APPROVED FULL BUILDOUT	

PLAN

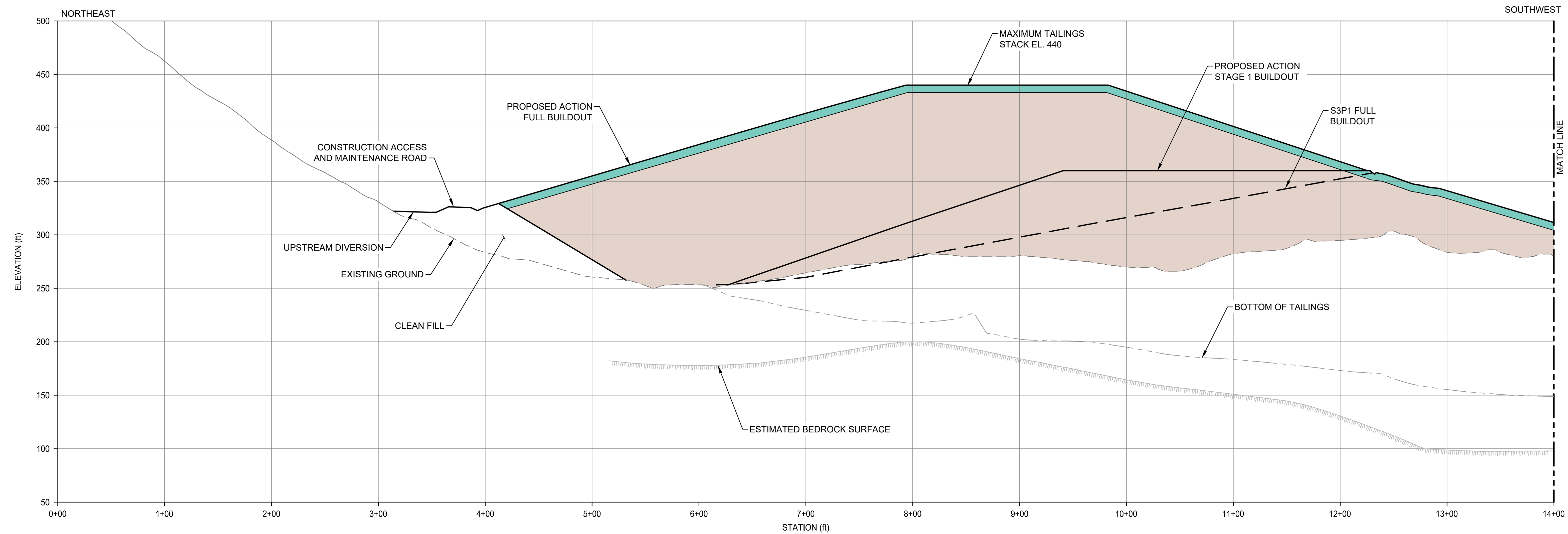
SCALE A

NOT FOR CONSTRUCTION

SCALE A 200 0 200 FT

Proposed Mine Expansion -
Tailings Disposal Facility B-
Road Trade-Off
Modified Alternative B
Hecla Greens Creek

APPLICANT: Hecla Greens Creek
FILE NO: POA-1988-269
WATERWAY: Cannery Creek
LOCATION: 58.1163N 134.7467W
SHEET 3 OF 7
DATE: 02/05/2025



SECTION A STA. 0+00 TO STA. 14+00
SCALE A FIG 1

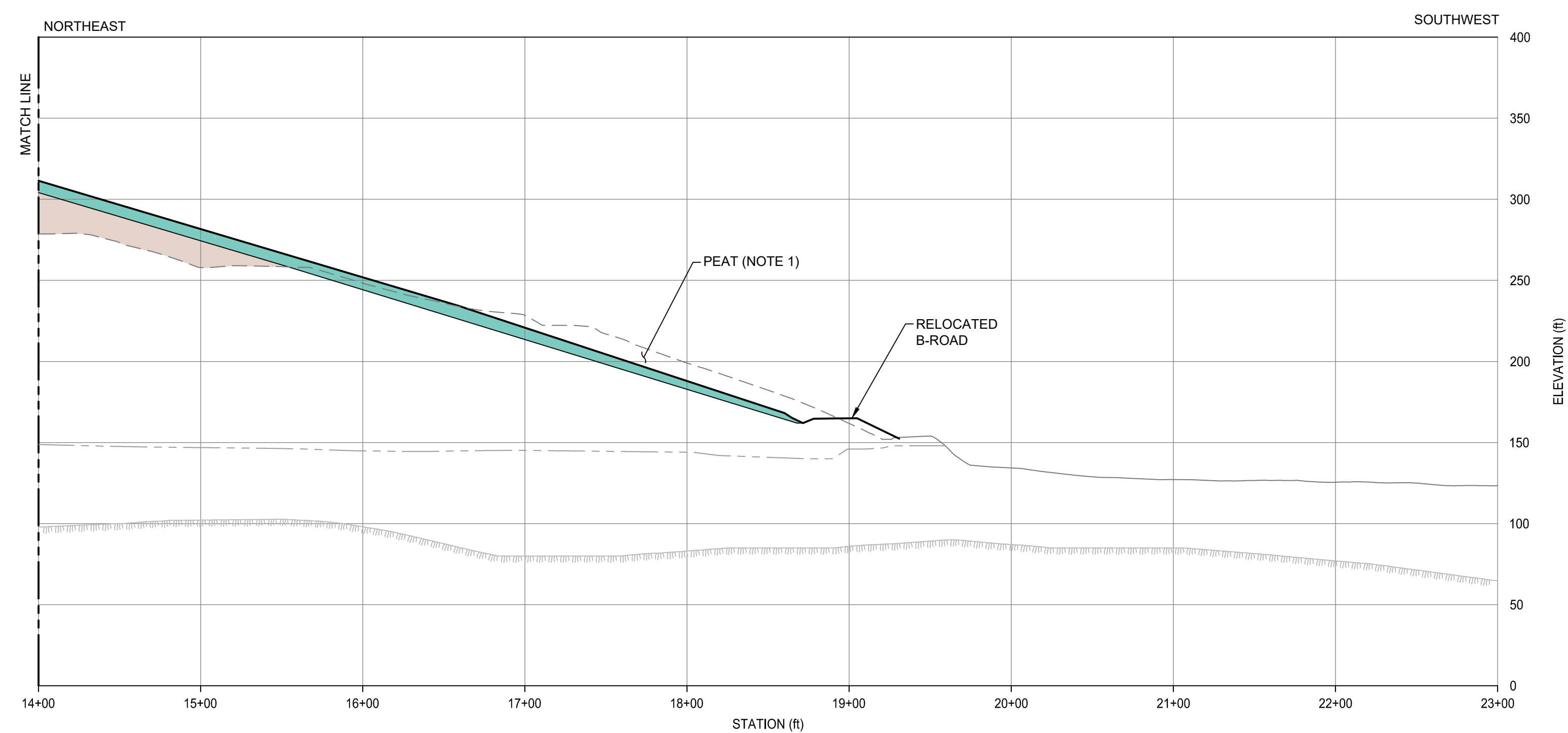
NOTE

1. PEAT CURRENTLY ON THE SLOPE OF THE TAILINGS STACK MAY BE REMOVED BEFORE CLOSURE COVER CONSTRUCTION (TO BE CONFIRMED).

LEGEND

- EXISTING
- BEDROCK SURFACE
 - BOTTOM OF TAILINGS
 - 2020 GROUND SURFACE
- PROPOSED
- CLOSURE COVER
 - PROJECT TAILINGS
 - PROJECT STAGE 1 BUILDOUT
 - S3P1 FULL BUILDOUT

SCALE A 60 0 60 FT

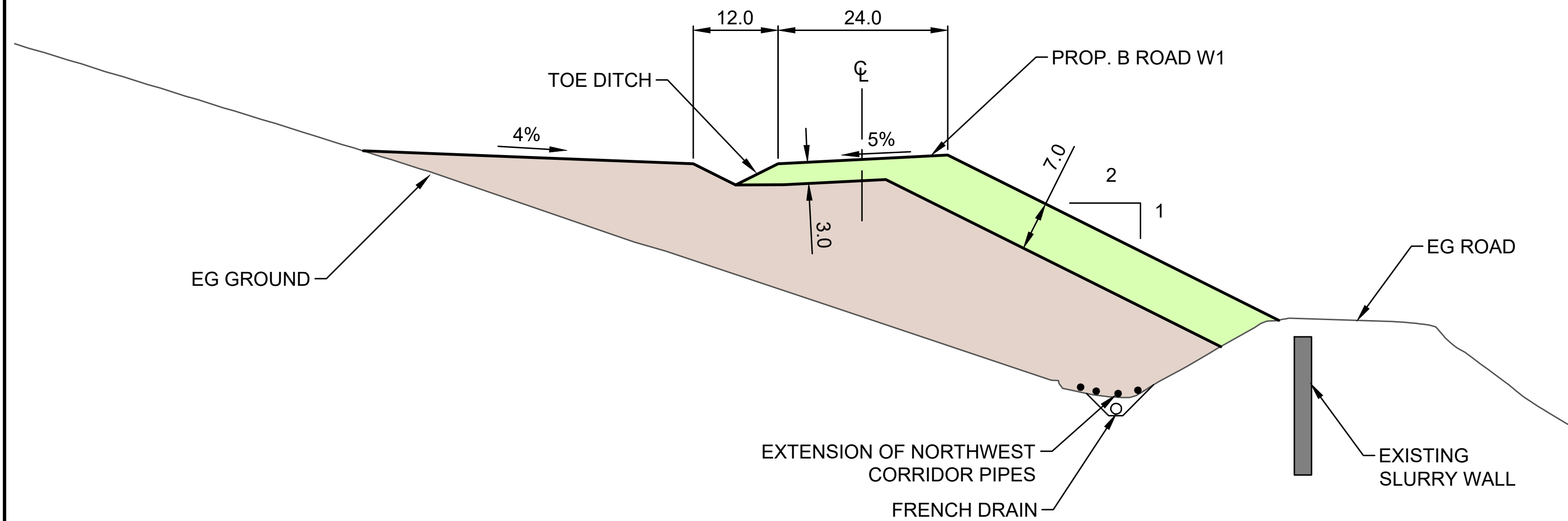


SECTION A STA. 14+00 TO STA. 23+00
SCALE A FIG 1

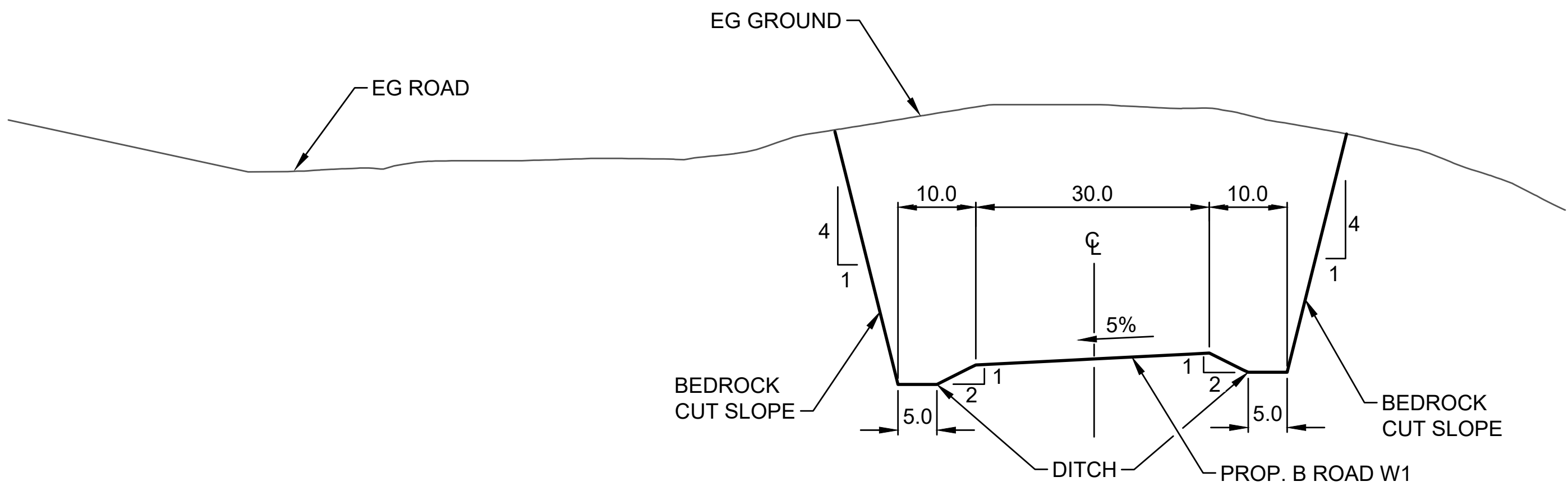
NOT FOR CONSTRUCTION

Proposed Mine Expansion
-Tailings Disposal Facility
Full Buildout
Cross Sections
Hecla Greens Creek

APPLICANT: Hecla Greens Creek
FILE NO: POA-1988-269
WATERWAY: Cannery Creek
LOCATION: 58.1163N 134.7467W
SHEET 4 OF 7
DATE: 02/05/2025



SECTION B
SCALE A
W1B-1



SECTION C
SCALE A
W1B-1

NOTE

1. EXISTING TOPOGRAPHY AND INFRASTRUCTURE LOCATIONS PROVIDED BY HECLA GREENS CREEK MINING COMPANY.

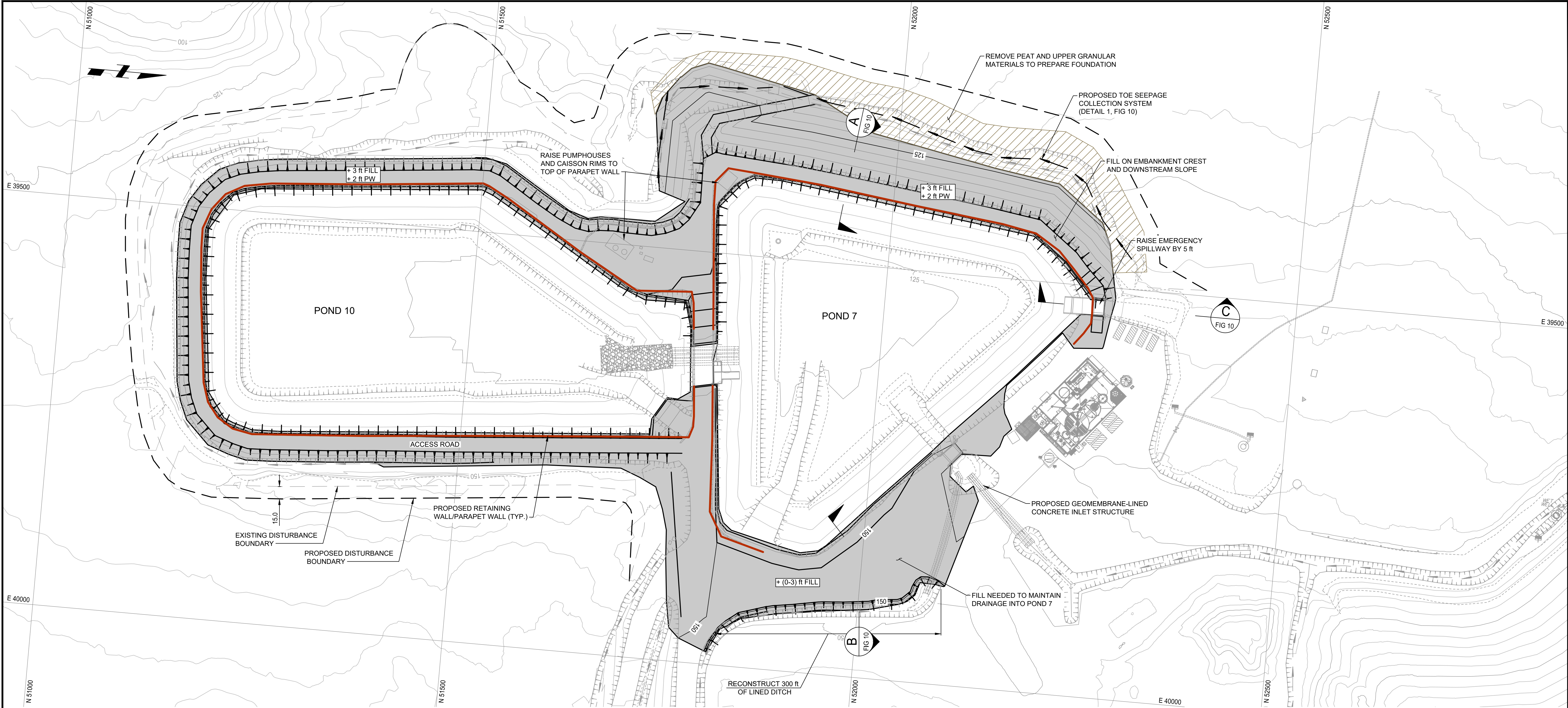
2. SECTIONS C AND D APPLY TO THE WEST 1, 2 AND 3 OPTIONS.

LEGEND	
PROPOSED	
	CLEAN FILL (ROAD BASE / COVER MATERIAL)
	TAILINGS
	SERVICE LAYER
	GRANULAR FILL
	GEOMEMBRANE

NOT FOR CONSTRUCTION



Proposed Mine Expansion - Tailings Disposal Facility Full Buildout Cross Sections Hecla Greens Creek	APPLICANT: Hecla Greens Creek FILE NO: POA-1988-269 WATERWAY: Cannery Creek LOCATION: 58.1163N 134.7467W SHEET 5 OF 7 DATE: 02/05/2025
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NOTES

1. EXISTING TOPOGRAPHY AND INFRASTRUCTURE LOCATIONS PROVIDED BY HECLA GREENS CREEK MINING COMPANY.

LEGEND

EXISTING	PROPOSED
EXISTING TOP OF SLOPE	PROPOSED TOP OF SLOPE
EXISTING DITCH	PROPOSED SEEPAGE
SURFACE CONTOURS (MAJOR)	HEIGHT OF FILL AND PARAPET WALL (PW)
SURFACE CONTOURS (MINOR)	PROPOSED CLEAN FILL

PLAN

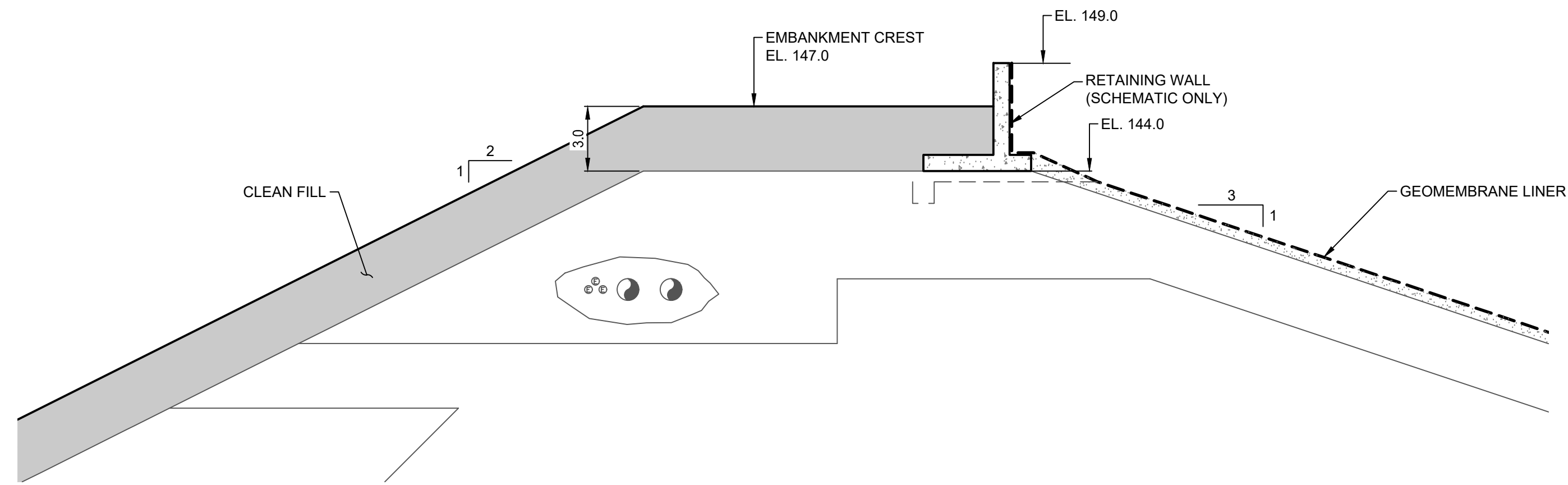
1:60

NOT FOR CONSTRUCTION

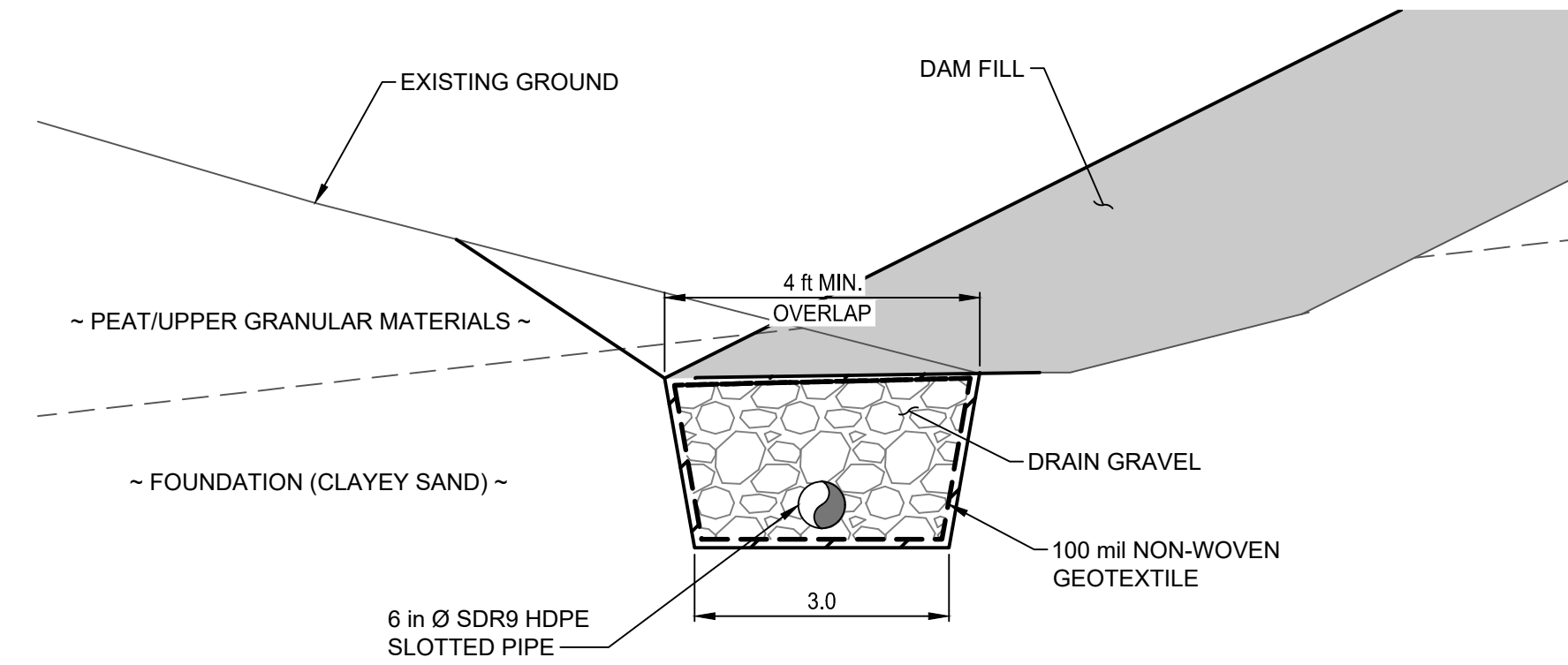


Proposed Mine Expansion -
Pond 7/10 Expansion
Hecla Greens Creek

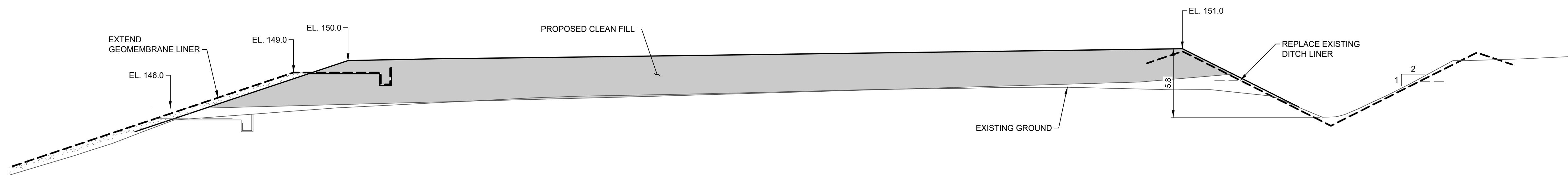
APPLICANT: Hecla Greens Creek
FILE NO: POA-1988-269
WATERWAY: Cannery Creek
LOCATION: 58.1163N 134.7467W
SHEET 6 OF 7
DATE: 02/05/2025



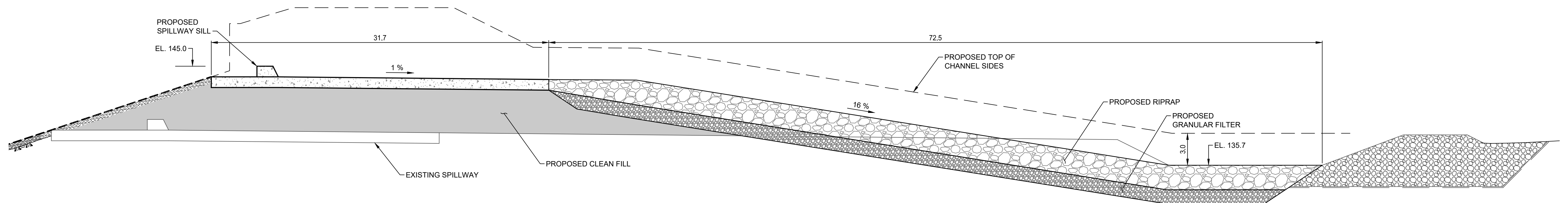
SECTION **A** EMBANKMENT CREST AND
SCALE A FIG 9 GEOMEMBRANE DETAIL (TYP.)



DETAIL **1** TOE SEEPAGE COLLECTION
SCALE B FIG 9 SYSTEM (TYP.)

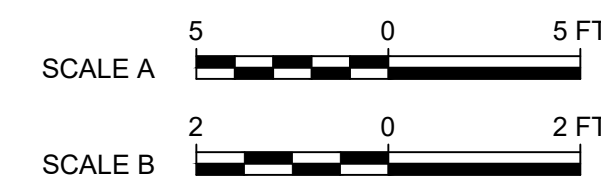


SECTION **B** POND 7 LAYDOWN FILL
SCALE A FIG 9



SECTION **C** EMERGENCY SPILLWAY PROFILE
SCALE A FIG 9

NOT FOR CONSTRUCTION



Proposed Mine Expansion -	APPLICANT: Hecla Greens Creek
Pond 7/10 Expansion	FILE NO: POA-1988-269
Cross Sections A/B/C	WATERWAY: Cannery Creek
Hecla Greens Creek	LOCATION: 58.1163N 134.7467W
	SHEET 7 OF 7
	DATE: 02/05/2025