



Appendix E Liard River Barge Crossing Preliminary Design



PRAIRIE CREEK MINE
LIARD RIVER BARGE
NORTH SHORE ACCESS ROAD
km 158+700 to km 159+845

DRAWING LIST		
DRAWING NO	DRAWING TITLE	REVISION
15GP0016-100-1920-001	NORTH SHORE OVERVIEW	0
15GP0016-100-1920-002	PLAN AND PROFILE DRAWING km 158+700 to km 159+845	0
15GP0016-100-1920-003	NORTH SHORE BARGE LANDING & DETAILS km 159+790 to km 159+845	0
15GP0016-100-1920-004	NORTH SHORE STAGING AREA SITE PLAN AND SECTION	0
15GP0016-100-1920-005	CROSS SECTION DRAWINGS PAGE 1 of 4	0
15GP0016-100-1920-006	CROSS SECTION DRAWINGS PAGE 2 of 4	0
15GP0016-100-1920-007	CROSS SECTION DRAWINGS PAGE 3 of 4	0
15GP0016-100-1920-008	CROSS SECTION DRAWINGS PAGE 4 of 4	

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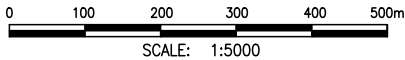
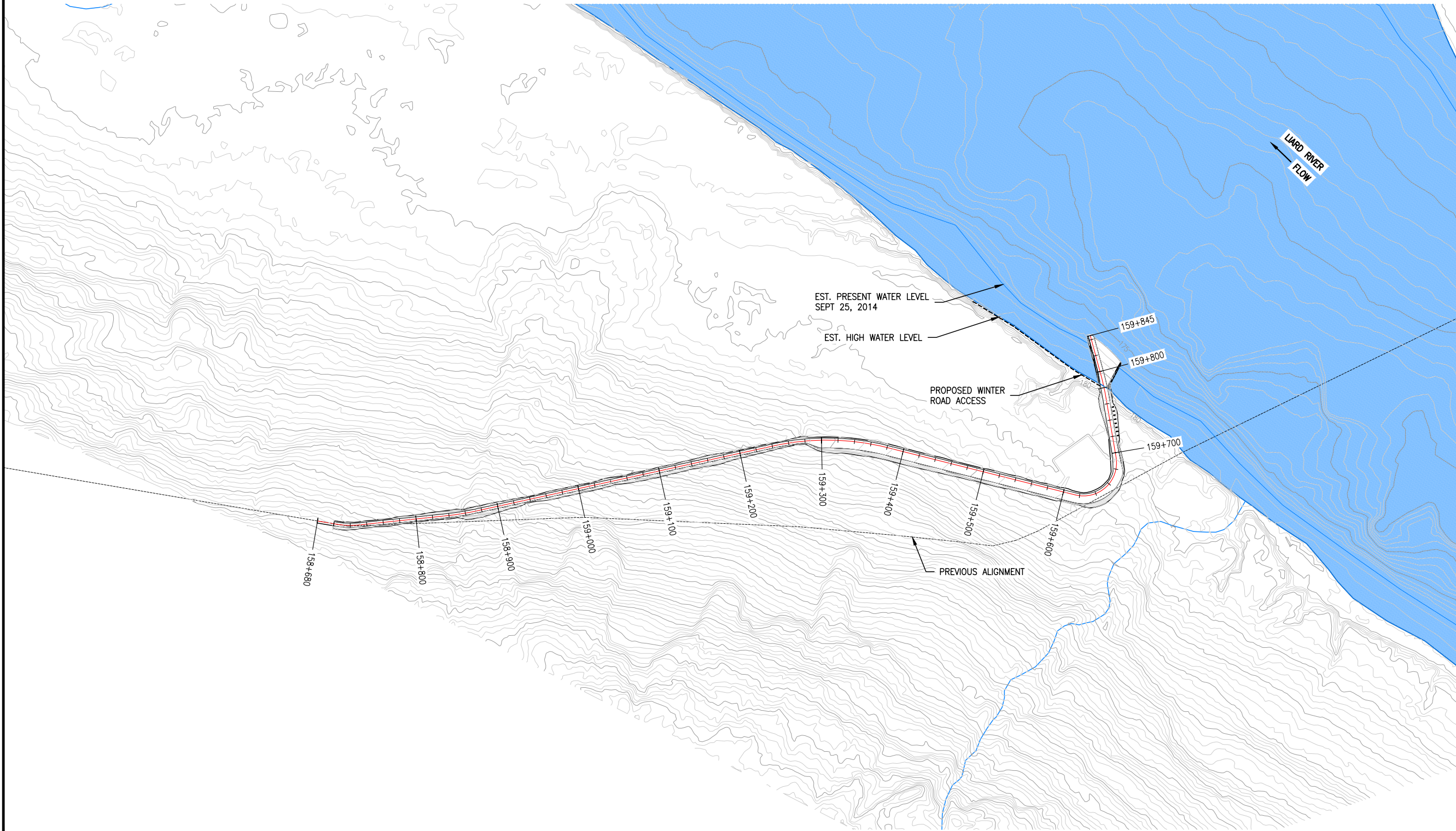
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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD



DESCRIPTION: ISSUED FOR INFORMATION
ISSUE DATE: 15/02/23

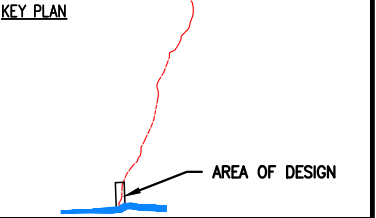
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LEGEND

	PROPOSED DESIGN CL
	PROPOSED ROAD EDGES
	PROPOSED DITCH BOTTOM
	PROPOSED CUT/FILL LINES
	PREVIOUS ROAD ALIGNMENT
	WATERCOURSES

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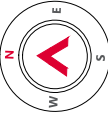
**PRAIRIE CREEK MINE
LIARD RIVER BARGE
NORTH SHORE ACCESS ROAD
km 158+700 to km 159+845**

TITLE:

**NORTH SHORE
OVERVIEW**

DWG NO:	REV:
15GP0016-100-1920-001	0

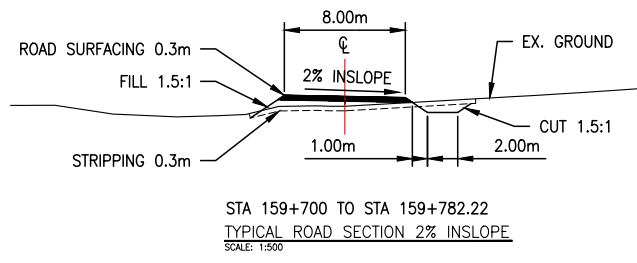
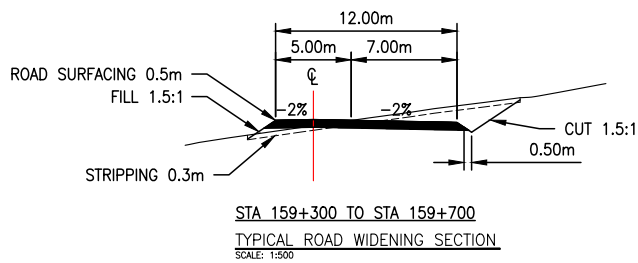
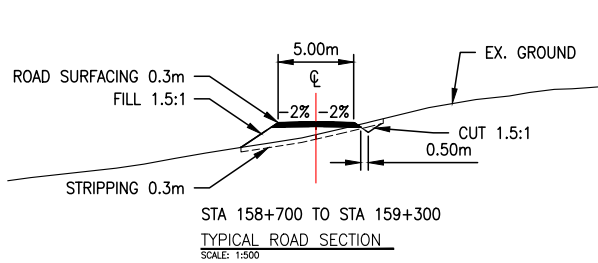
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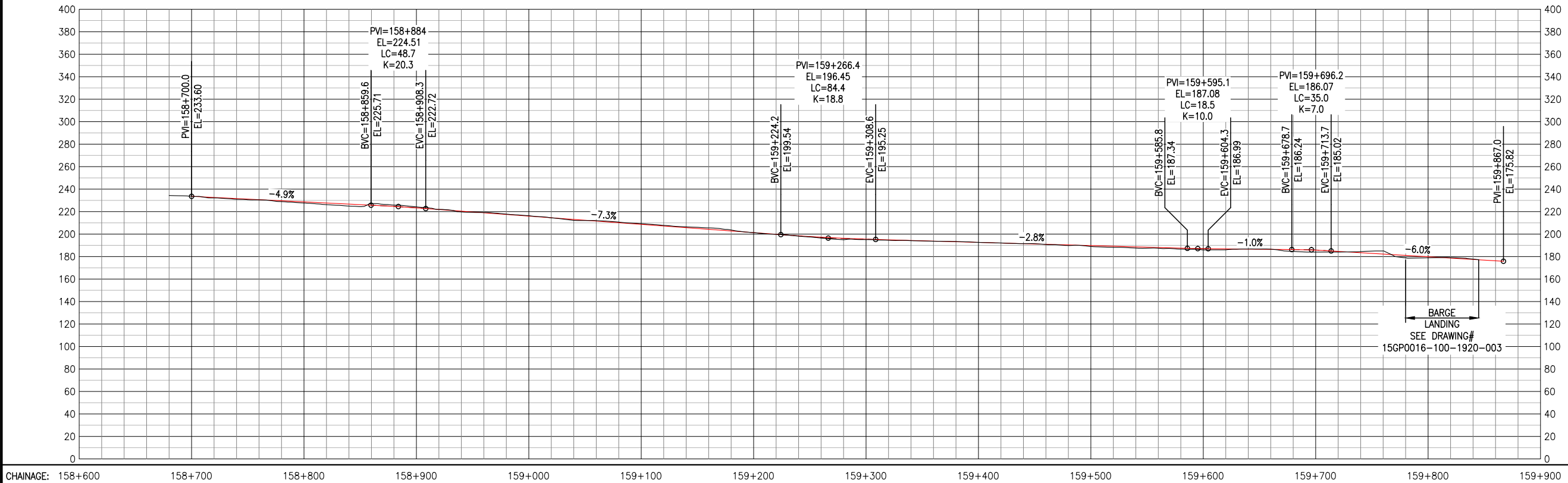
VOLUME SUMMARY m³

ROAD		
TOTAL	Stripping	4390.25
158+700.00	Road Surfacing	3711.27
TO	Cut	6146.29
159+782.22	Fill (factored 1.15)	4881.84
	Borrow	380.00
	Waste	1700.09
GRADING		
Staging Area /	Road Surfacing	2334.50
Barge Landing	Cut	2213.00
	Fill (factored 1.15)	7861.00

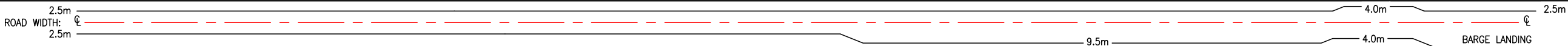


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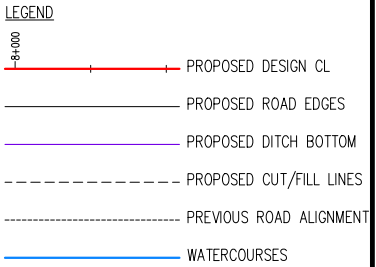
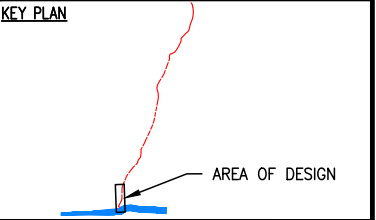
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MASS MOVEMENT:		1	2	3	4	5	6	7	8	9	10
EARTHWORKS:		Stripping	610.4				606.9				
		Road Surfacing	327.8				349.0			1128.5	368.5
		Cut	692.4				703.7			1248.6	219.4
		Fill	1078.2				425.0			2225.0	738.5
		Borrow	380.0				0.0			236.9	631.0
		Waste	0.0				0.0			0.0	0.0
							943.1			757.0	0.0



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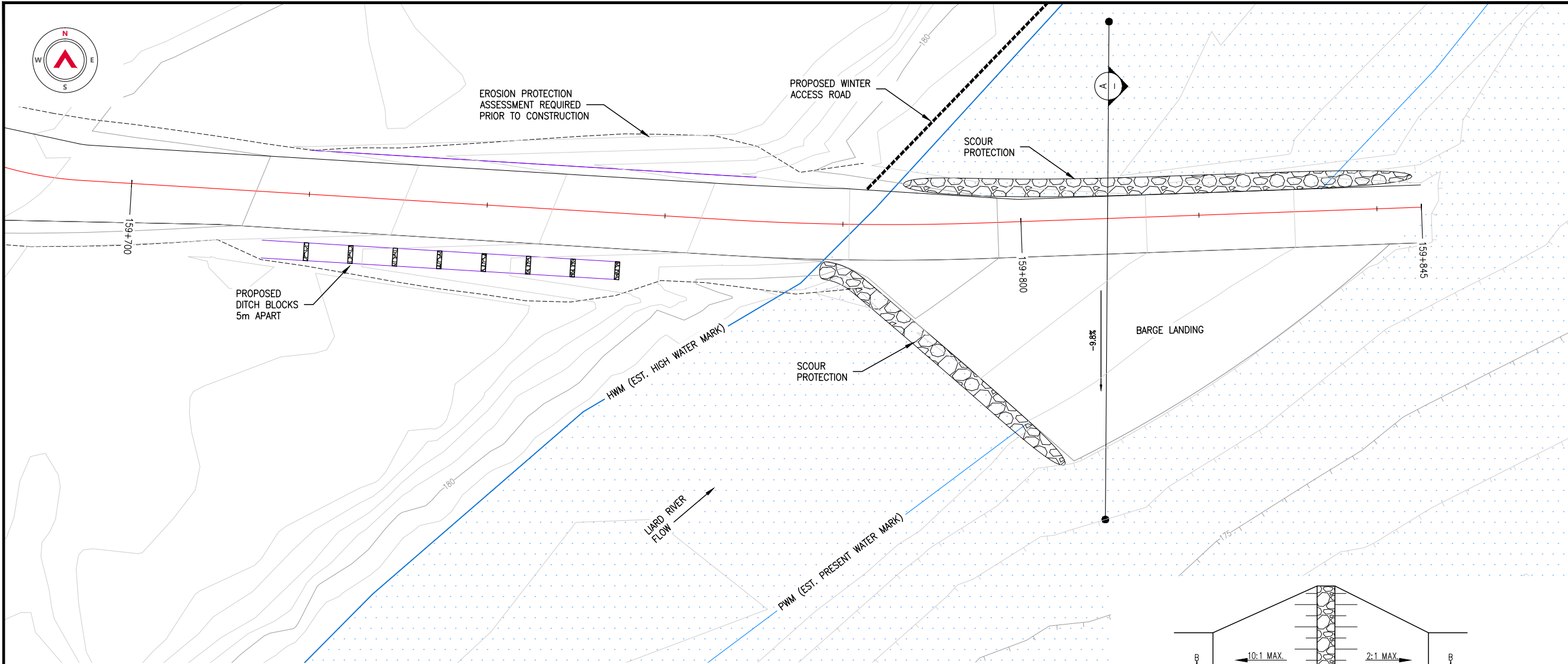
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**PRAIRIE CREEK MINE
LIARD RIVER BARGE
NORTH SHORE ACCESS ROAD
km 158+700 to km 159+845**

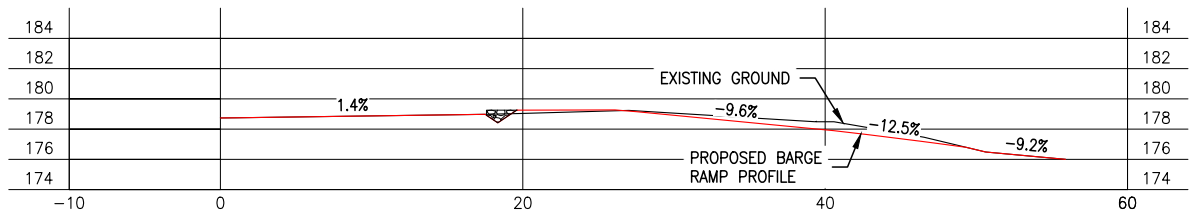
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**PLAN AND PROFILE
DRAWING
km 158+700 to km 159+782.22**

DWG NO:	REV:
15GP0016-100-1920-002	0

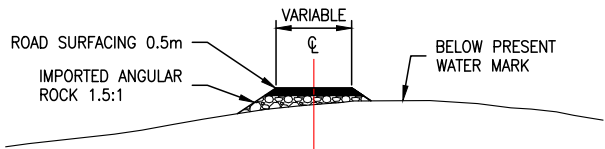
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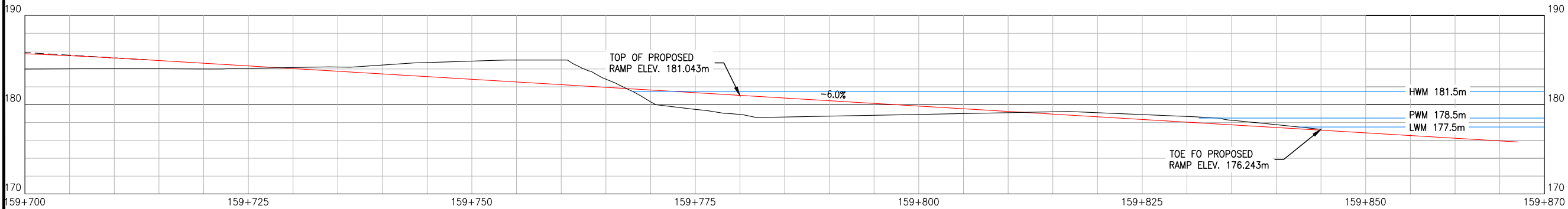
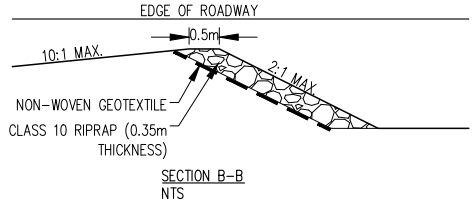
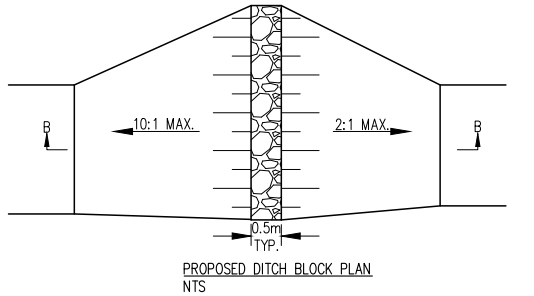
SITE PLAN BARGE LANDING
SCALE: 1:500



SECTION A-A
SCALE: 1:500

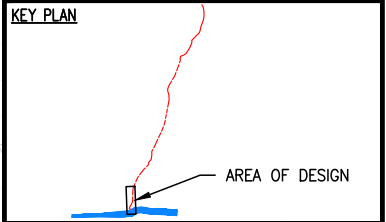


STA 159+782.22 TO STA 159+845
TYPICAL BARGE LANDING SECTION
SCALE: 1:500



PROPOSED PROFILE ALONG CENTERLINE
SCALE: 1:500

REFERENCE DRAWINGS		
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LEGEND	
	PROPOSED DESIGN CL
	PROPOSED ROAD EDGES
	PROPOSED DITCH BOTTOM
	PROPOSED CUT/FILL LINES
	PREVIOUS ROAD ALIGNMENT
	WATERCOURSES

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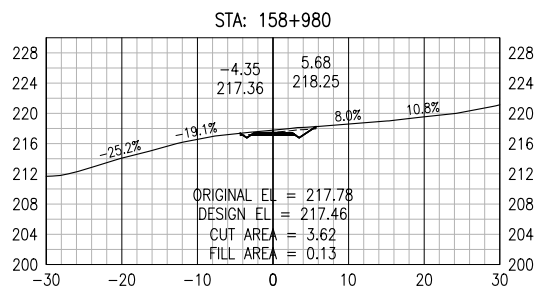
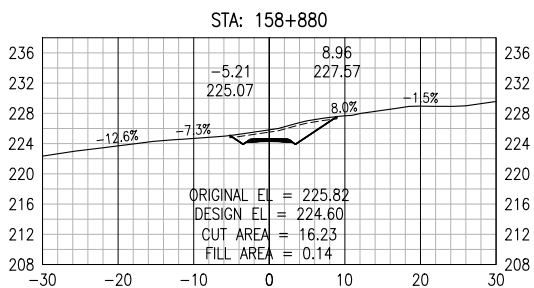
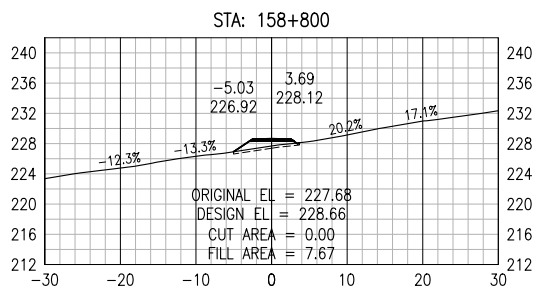
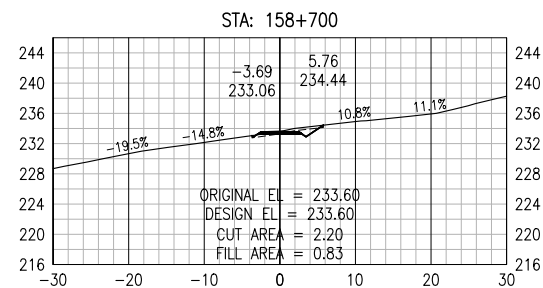
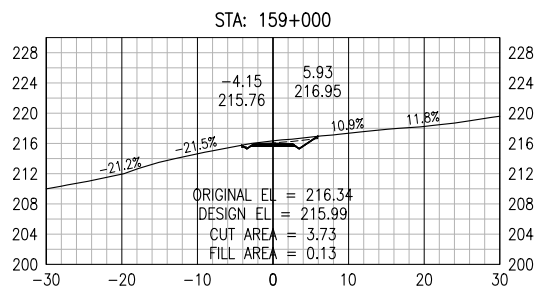
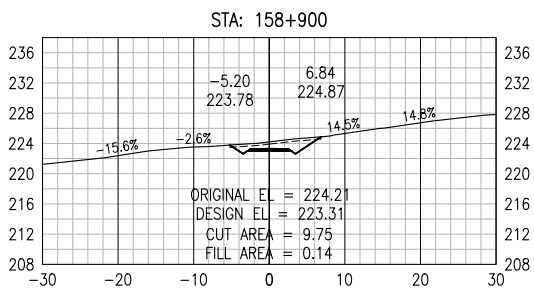
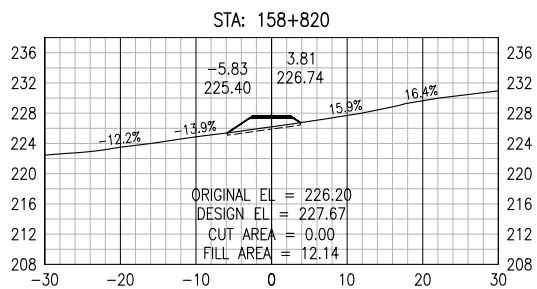
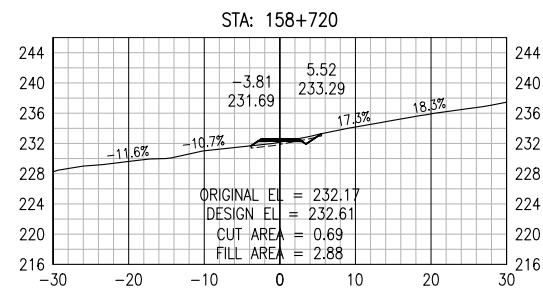
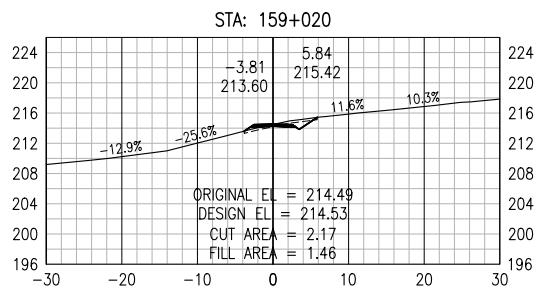
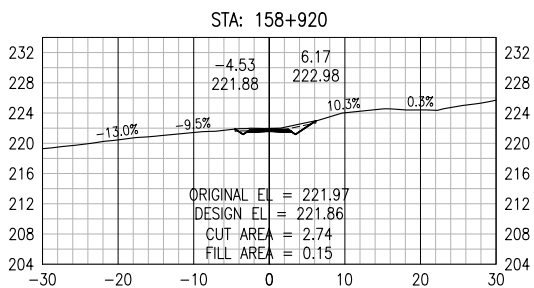
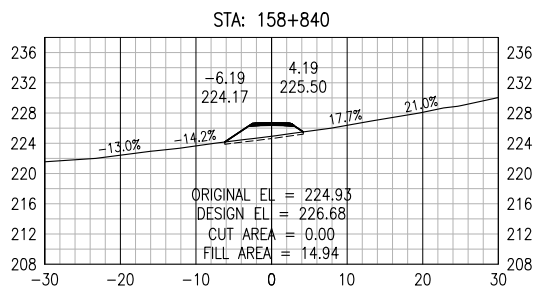
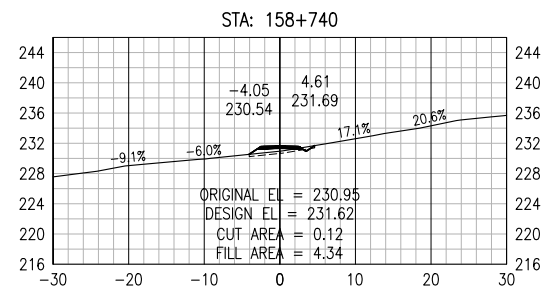
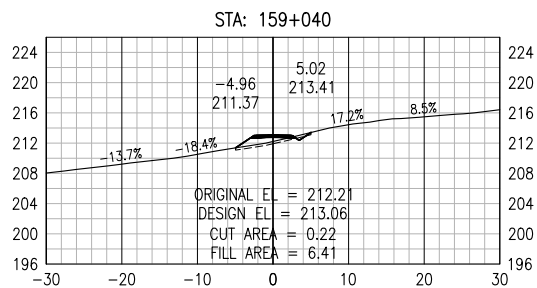
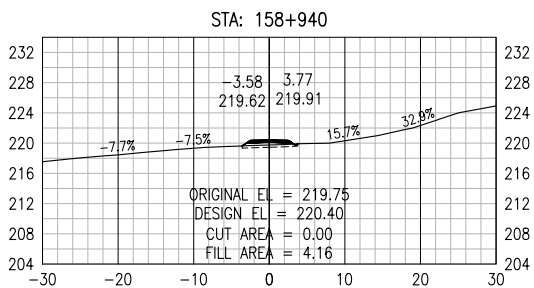
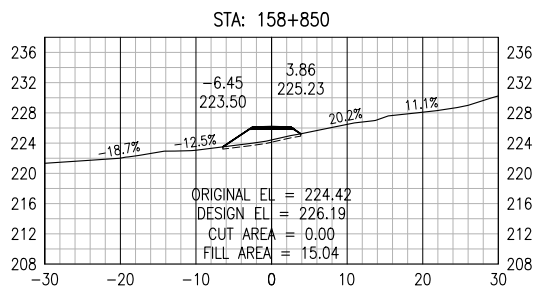
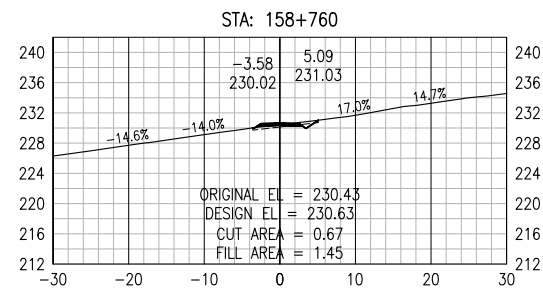
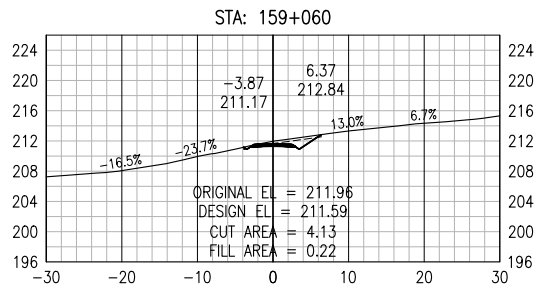
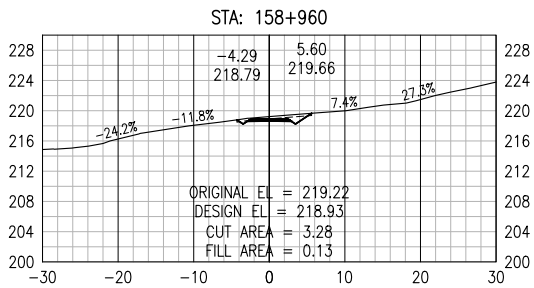
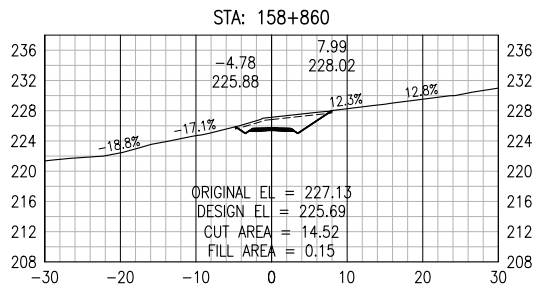
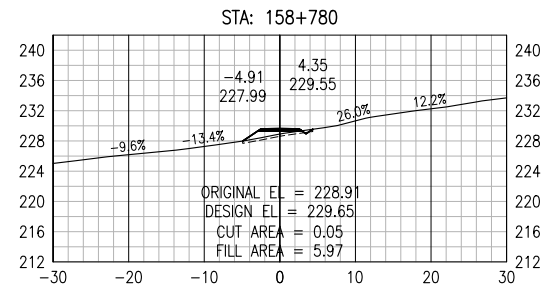


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PROJECT:
**PRAIRIE CREEK MINE
LIARD RIVER BARGE
NORTH SHORE ACCESS ROAD
km 158+700 to km 159+845**

TITLE:
**NORTH SHORE BARGE
LANDING & DETAILS
km 159+790 to km 159+845**

DWG NO:	REV:
15GP0016-100-1920-003	0



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LEGEND

_____ EXISTING GROUND

----- STRIPPED GROUND

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PROJECT:

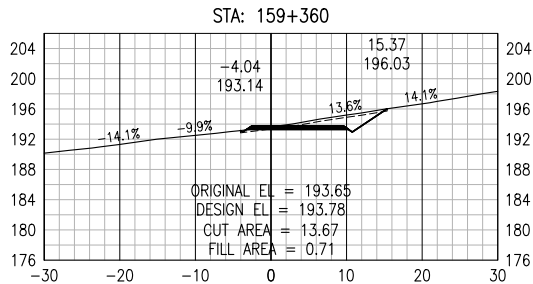
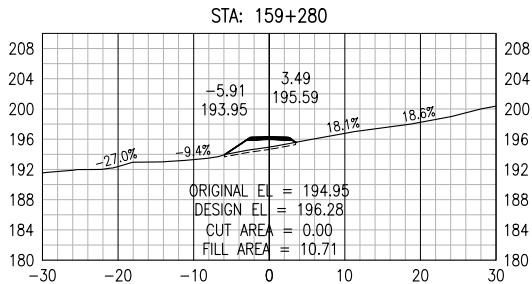
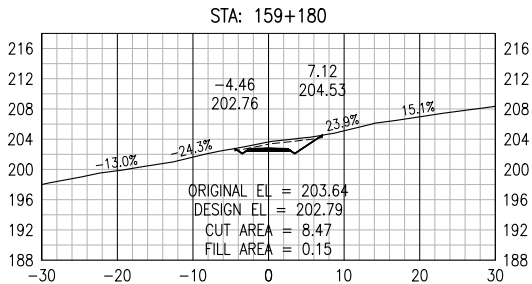
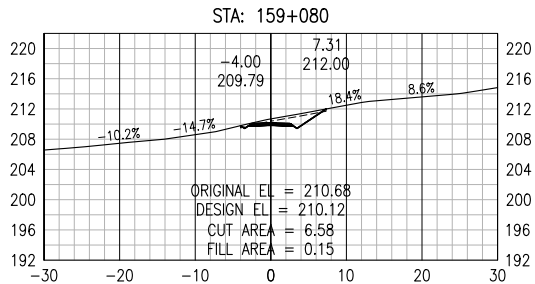
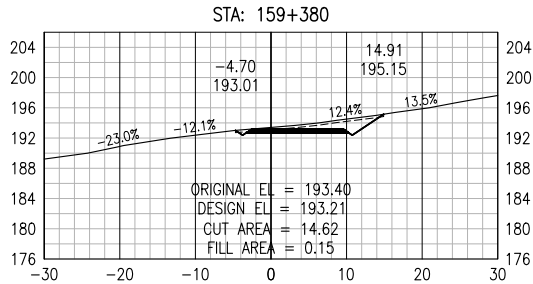
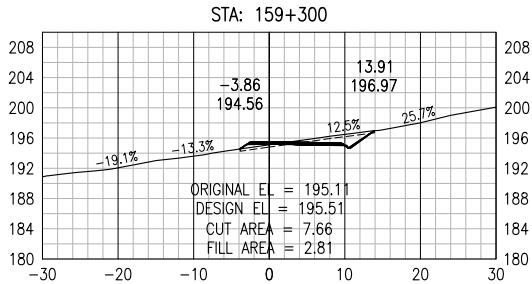
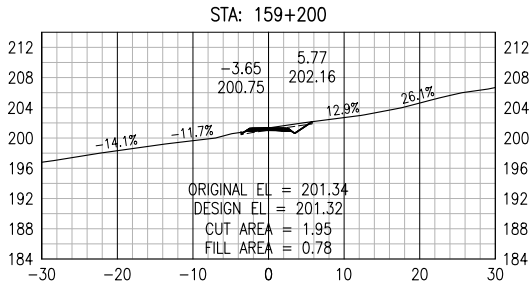
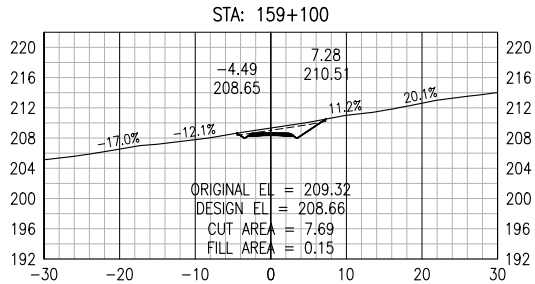
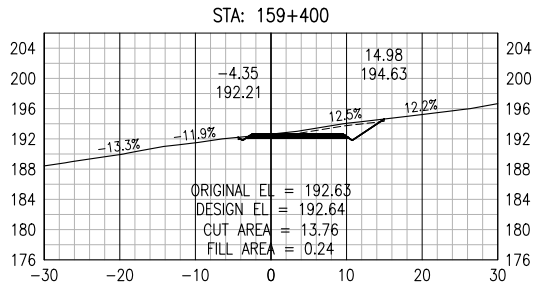
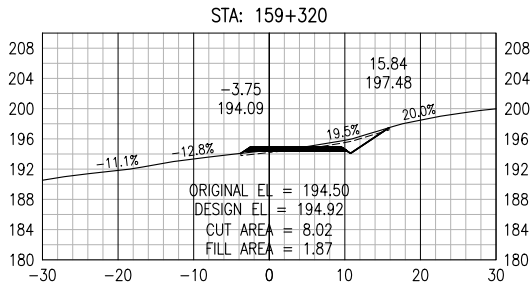
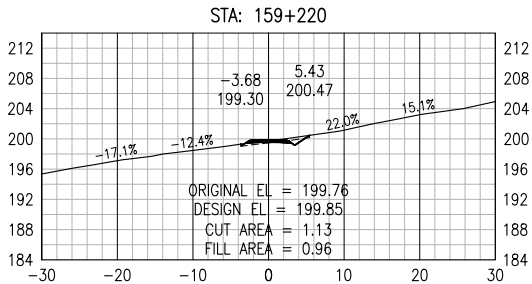
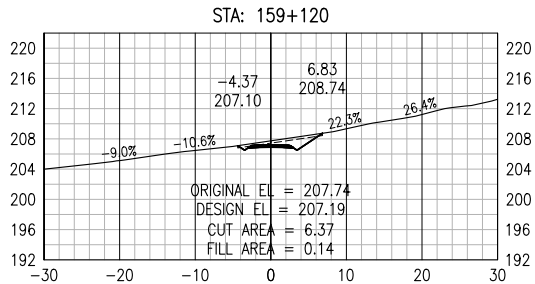
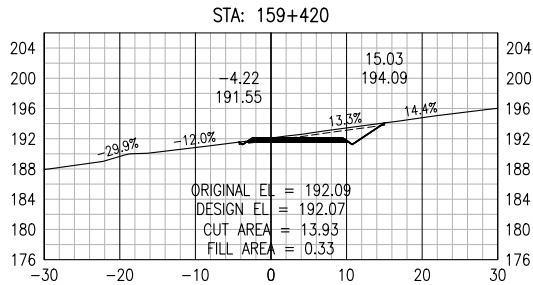
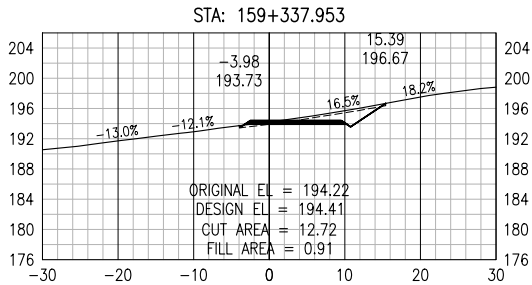
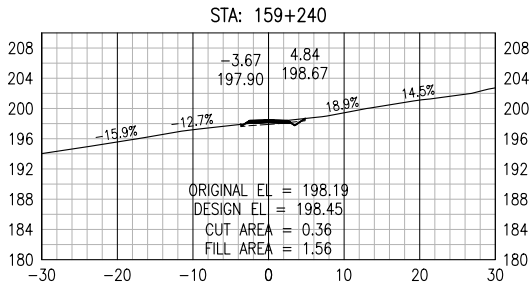
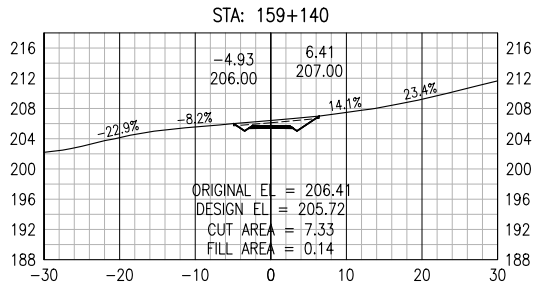
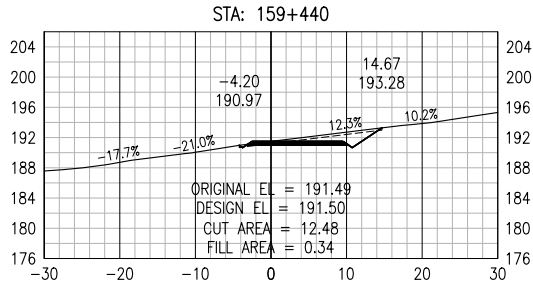
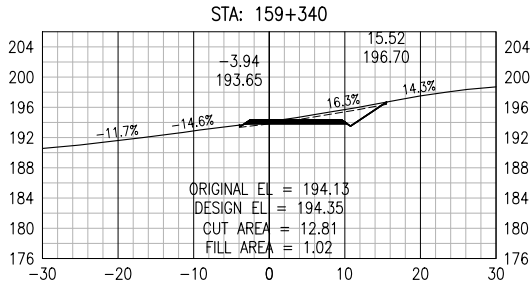
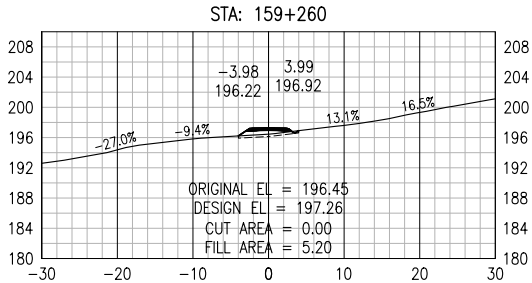
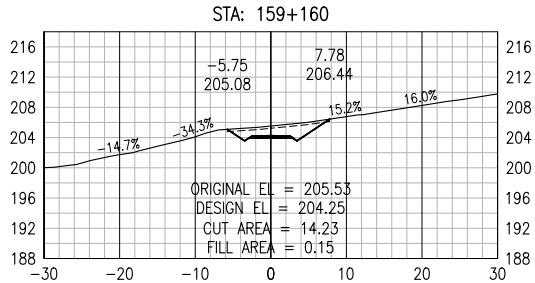
**PRAIRIE CREEK MINE
LIARD RIVER BARGE
NORTH SHORE ACCESS ROAD
km 158+700 to km 159+845**

TITLE:

**CROSS SECTION
DRAWINGS
PAGE 1 of 4**

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LEGEND

————— EXISTING GROUND

- - - - - STRIPPED GROUND

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0	2025/02/04	ISSUED FOR INFORMATION	TMM	WBM
REV	YY/MM/DD	DESCRIPTION	DRWN	APVD

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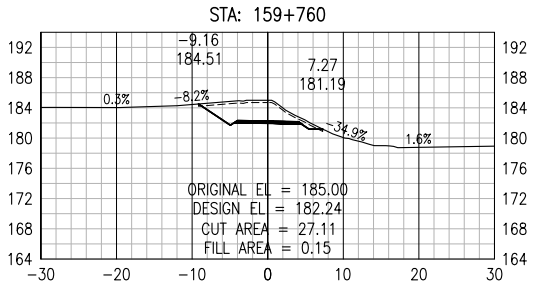
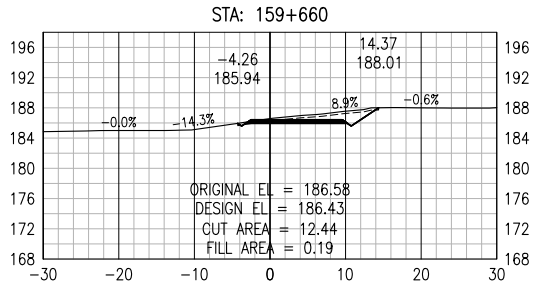
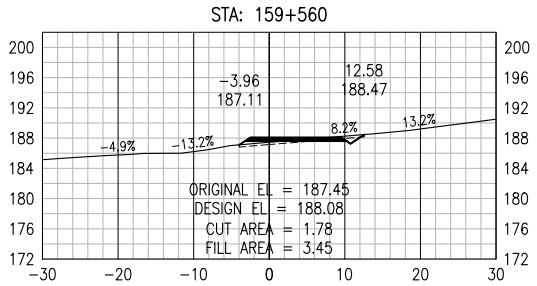
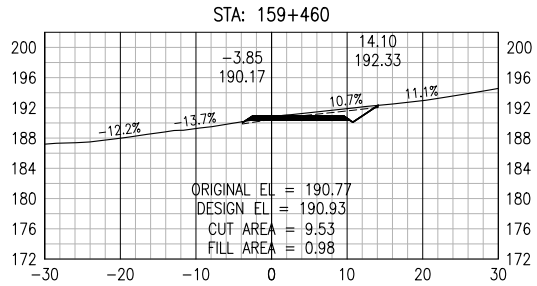
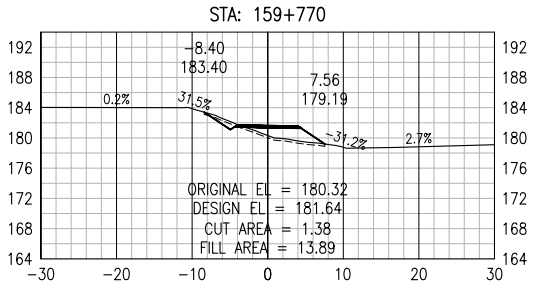
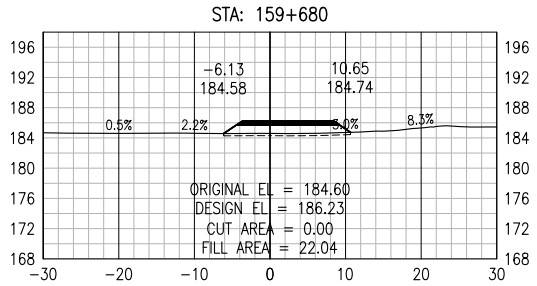
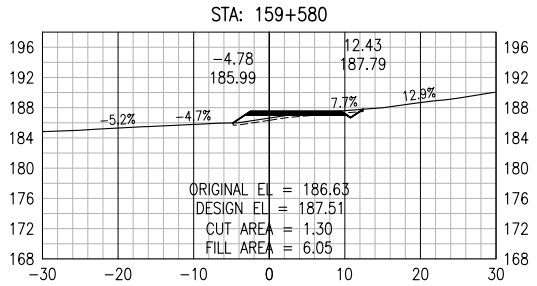
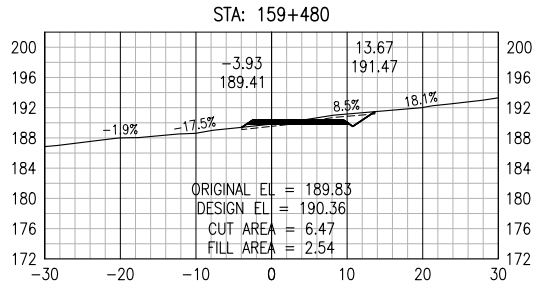
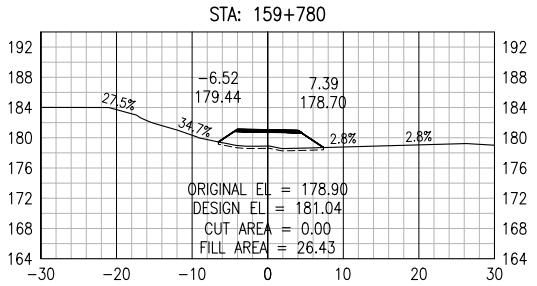
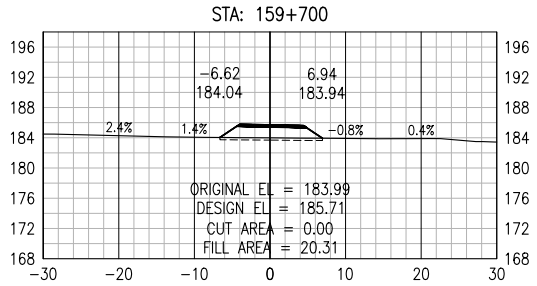
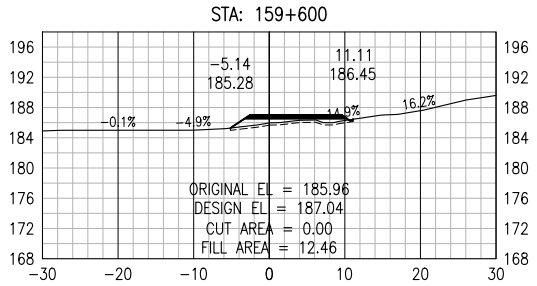
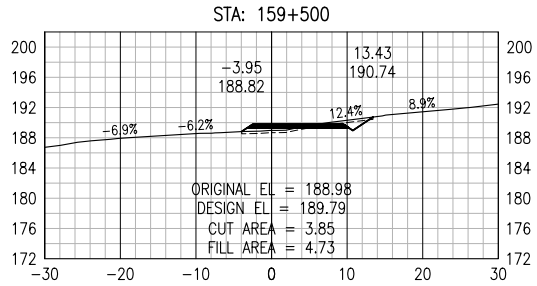
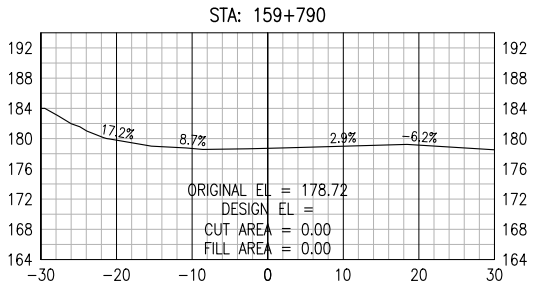
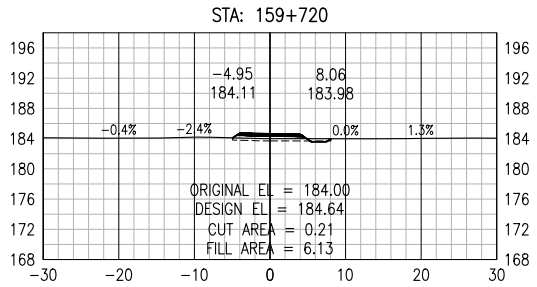
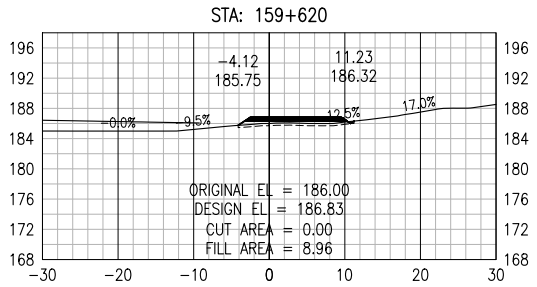
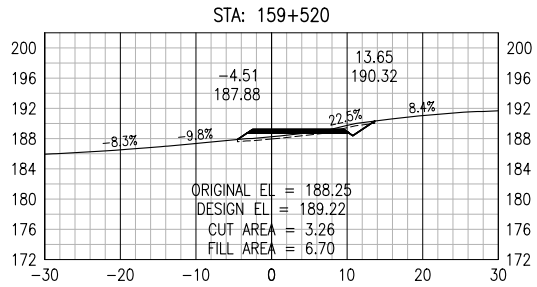
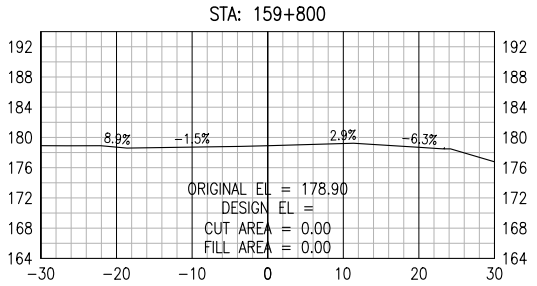
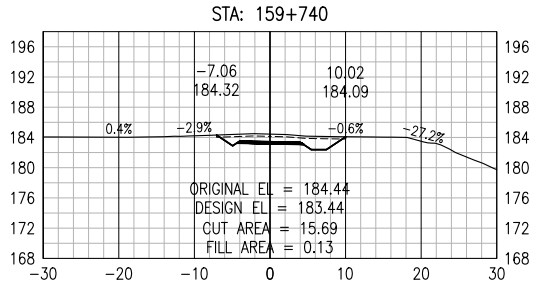
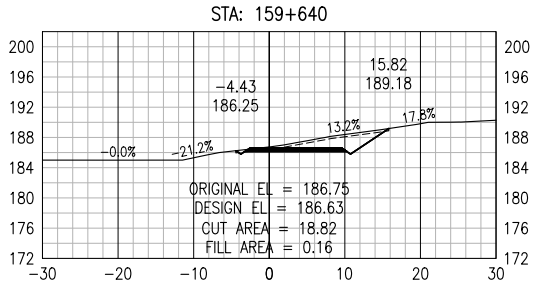
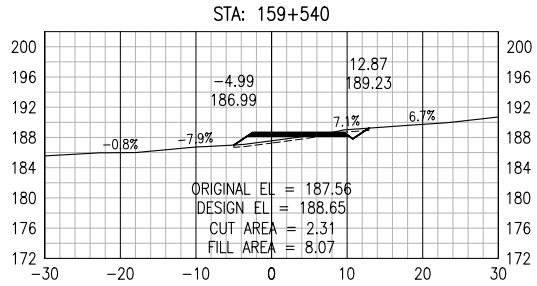
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PROJECT NO:	15GP0016	DSGN:	TMM	DATE:	15/02/04
DRAWING SIZE:	ANSI "B"	CHKD:	EK	DATE:	-
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PROJECT:

**PRAIRIE CREEK MINE
LIARD RIVER BARGE
NORTH SHORE ACCESS ROAD
km 158+700 to km 159+845**

**CROSS SECTION
DRAWINGS
PAGE 2 of 4**

DWG NO:	REV:
15GP0016-100-1920-006	0



NOTES:
SURFACE USED IN DESIGN WAS
GENERATED USING CONTOURS PROVIDED
BY OTHERS. POINT DATA OR LIDAR DATA
WAS NOT PROVIDED.

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
1		
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LEGEND

————— EXISTING GROUND

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0	2025/02/04	ISSUED FOR INFORMATION	TMM	WBM
REV	YY/MM/DD	DESCRIPTION	DRWN	APVD

CLIENT:



CLIENT NO:		DRWN:	TMM	DATE:	15/02/04
PROJECT NO:	15GP0016	DSGN:	TMM	DATE:	15/02/04
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PROJECT:					

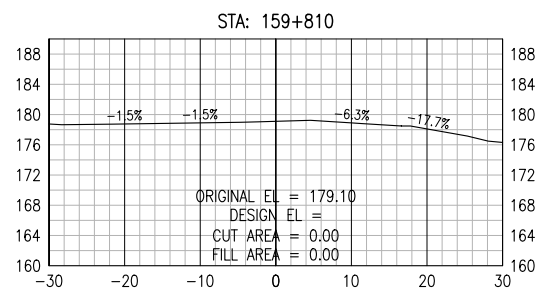
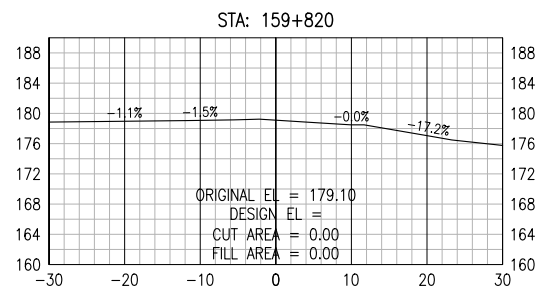
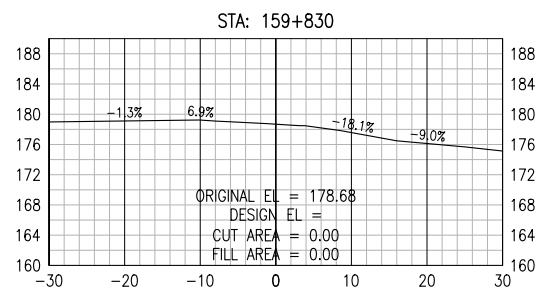
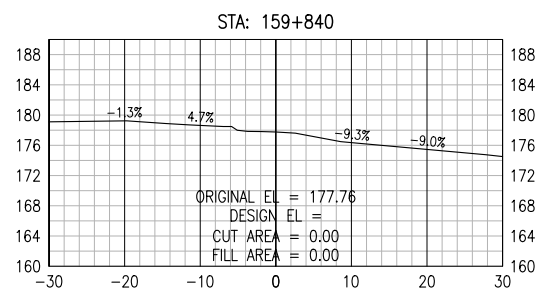
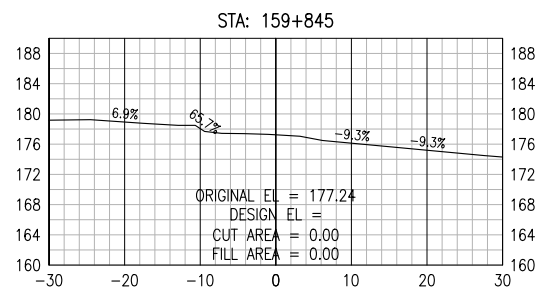
PROJECT:

**PRAIRIE CREEK MINE
LIARD RIVER BARGE
NORTH SHORE ACCESS ROAD
km 158+700 to km 159+845**

TITLE:

**CROSS SECTION
DRAWINGS
PAGE 3 of 4**

DWG NO:	15GP0016-100-1920-007	REV:	0
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NOTES:
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WAS NOT PROVIDED.

REFERENCE DRAWINGS		
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LEGEND

_____ EXISTING GROUND
- - - - - STRIPPED GROUND

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PROJECT:

**PRAIRIE CREEK MINE
LIARD RIVER BARGE
NORTH SHORE ACCESS ROAD
km 158+700 to km 159+845**

TITLE:

**CROSS SECTION
DRAWINGS
PAGE 4 of 4**

DWG NO: 15GP0016-100-1920-008	REV: 0
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