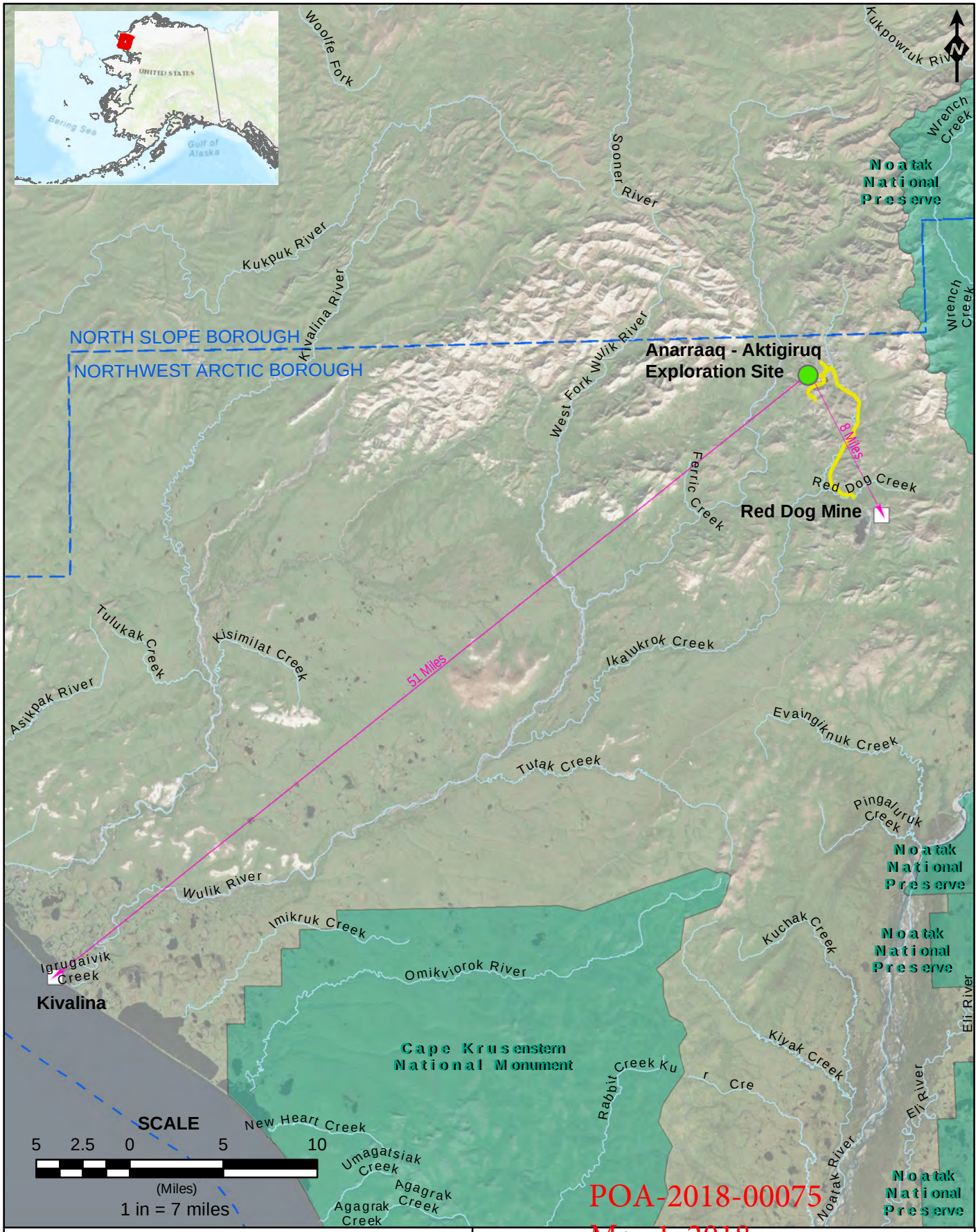

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Teck American, Inc.
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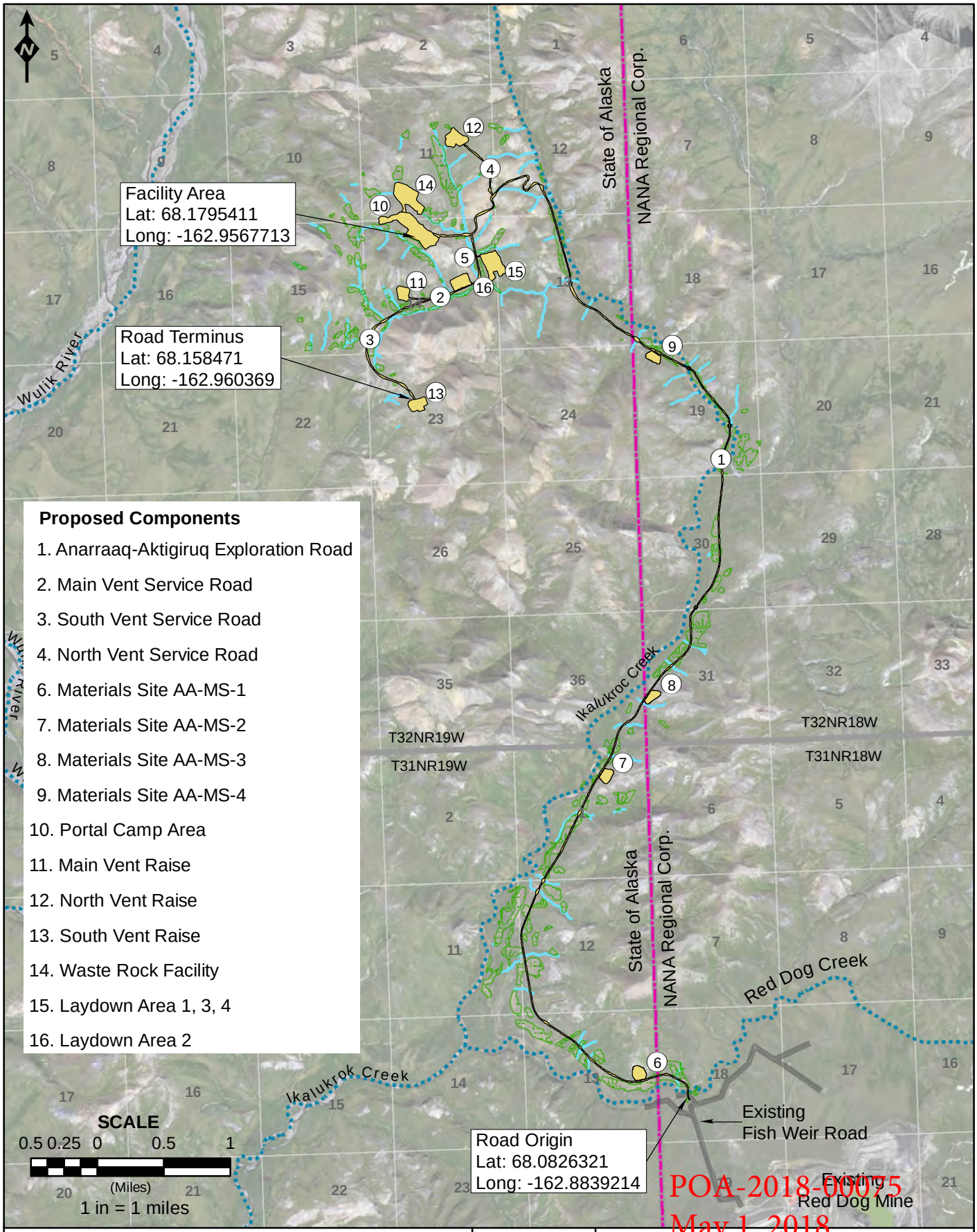
Anarraaq - Aktigiruq Exploration Site
Proposed Road
Borough Boundary
Place of Interest
Administrative Boundary

APPLICANT: Teck

PROPOSED PROJECT LOCATION
Anarraaq & Aktigiruq Exploration Program

WATERWAY: Ikalukrok Creek	DATE: 05/01/2018
FILE NO.: POA-2018-75	SHEET: 1 of 37

ORNRC: TEA009, 05/01/2018, R05



Proposed Project

USGS Stream

Land Status Boundary

Mapped Waters of the U.S.

Wetland

Stream

APPLICANT:

Teck

GENERAL PLAN VIEW

Anarraaq & Aktigiruq Exploration Program

WATERWAY: Ikalukrok Creek	DATE: 05/01/2018
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Teck American, Inc.
Ikalukrok Creek
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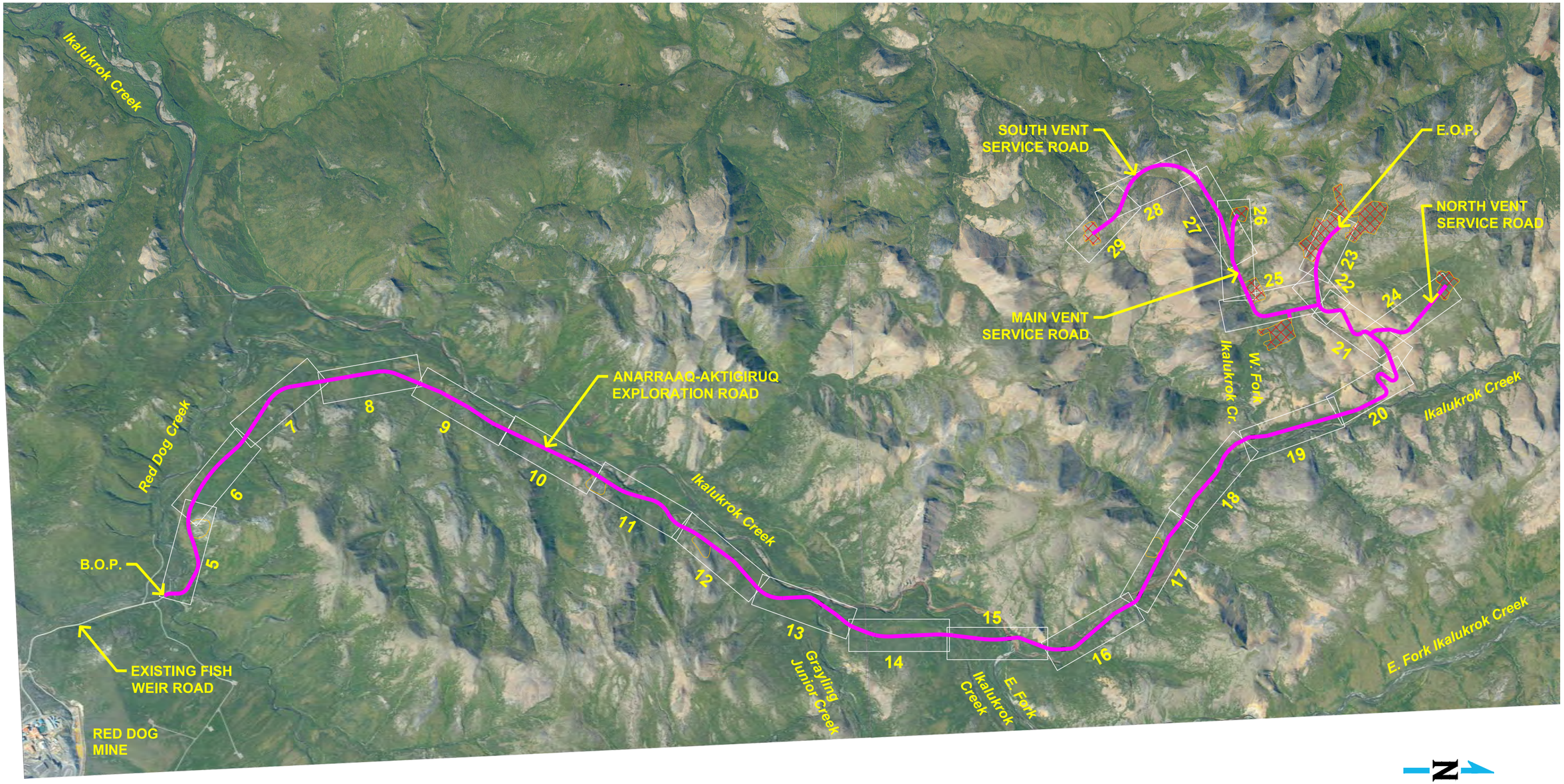
ORNRC: TEA013, 05/01/2018, R08



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Teck American, Inc.
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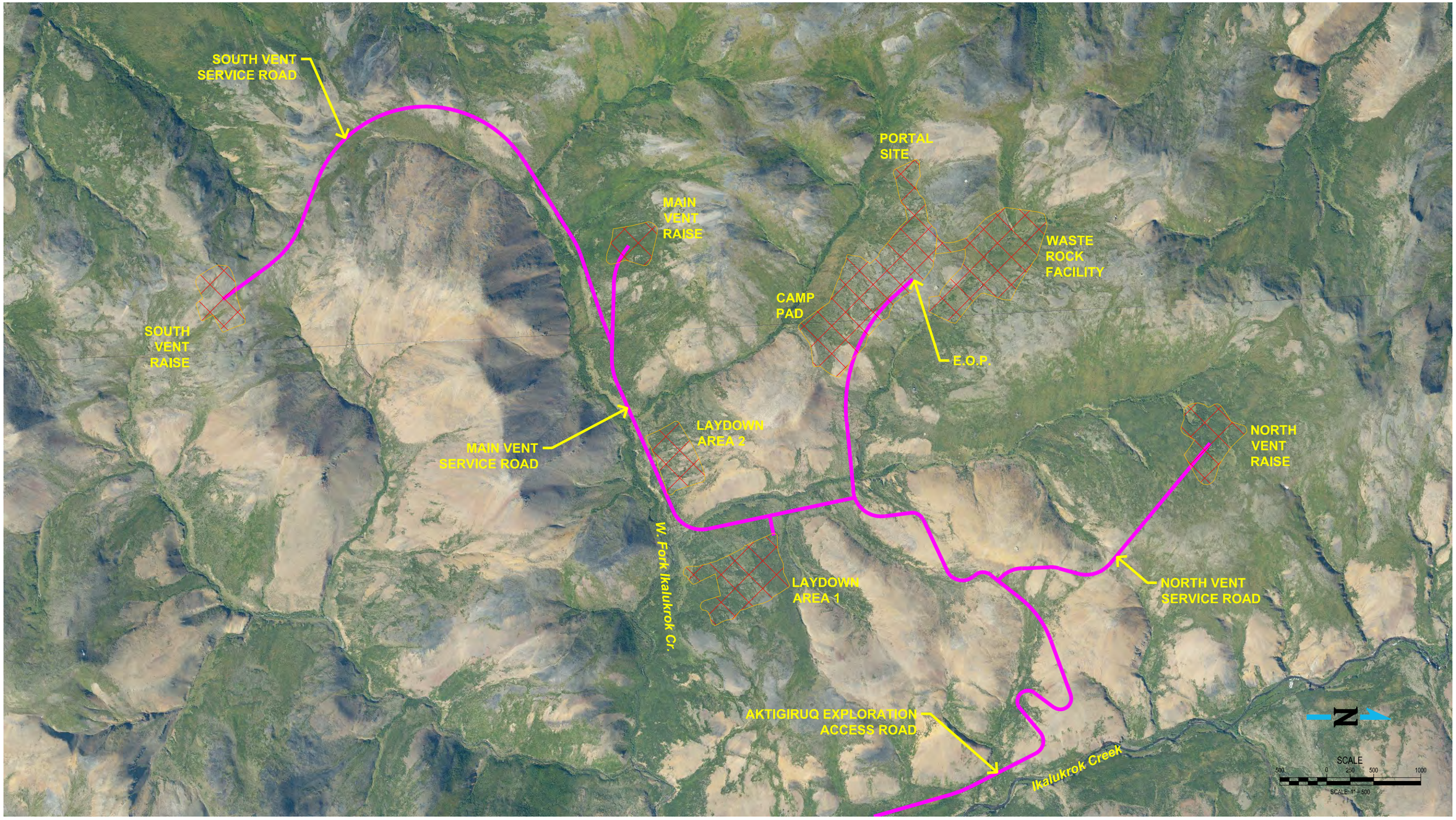
PROPOSED	DESCRIPTION
	SUPPORT FACILITIES
	EXPLORATION ACCESS ROADS
	MATERIAL SITE
	BRIDGE LAYDOWN AREAS

Applicant: Teck

PROPOSED ACCESS ROADS
PLAN VIEW SHEET INDEX
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	3 of 37

19028W-C-A3_Sheet Layout.dwg



PROPOSED	DESCRIPTION
	SUPPORT FACILITIES
	EXPLORATION ACCESS ROADS

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Ikalukrok Creek
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Applicant: Teck

PROPOSED FACILITIES
PLAN VIEW SHEET INDEX
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	4 of 37

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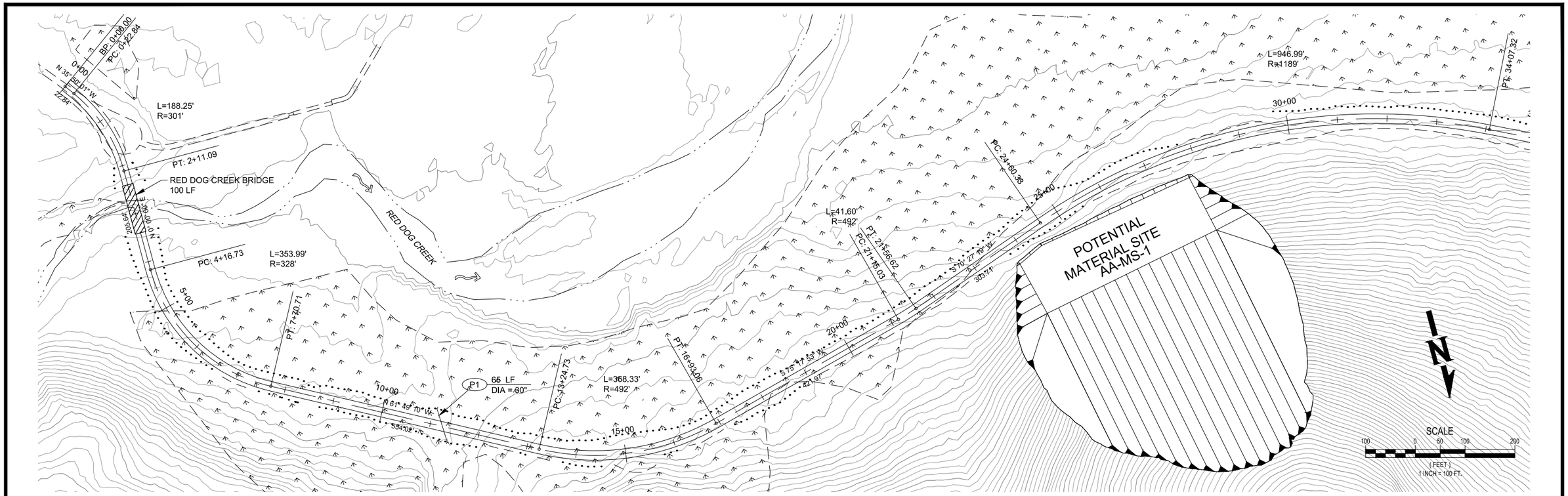

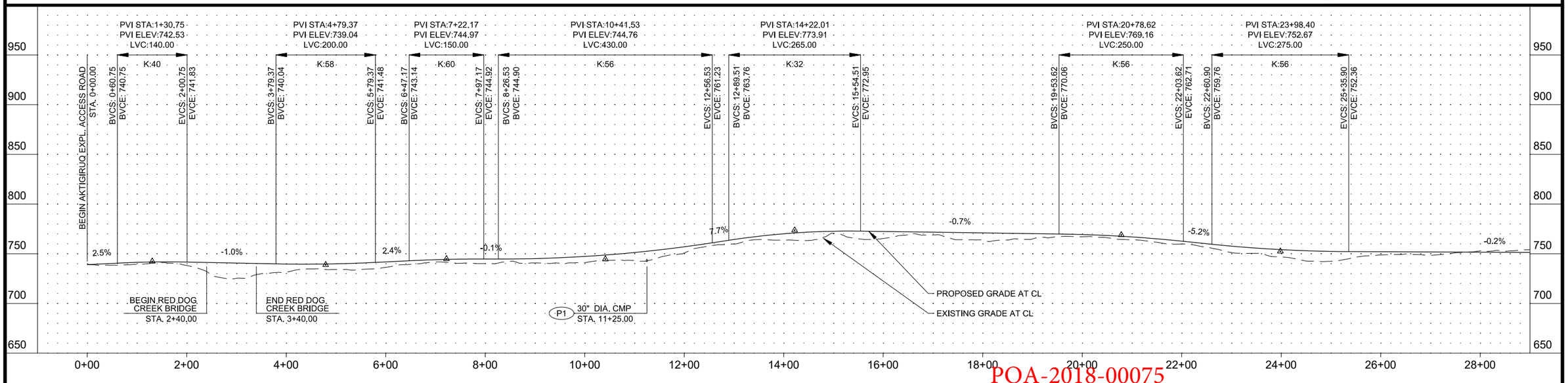

EXISTING	PROPOSED	DESCRIPTION
		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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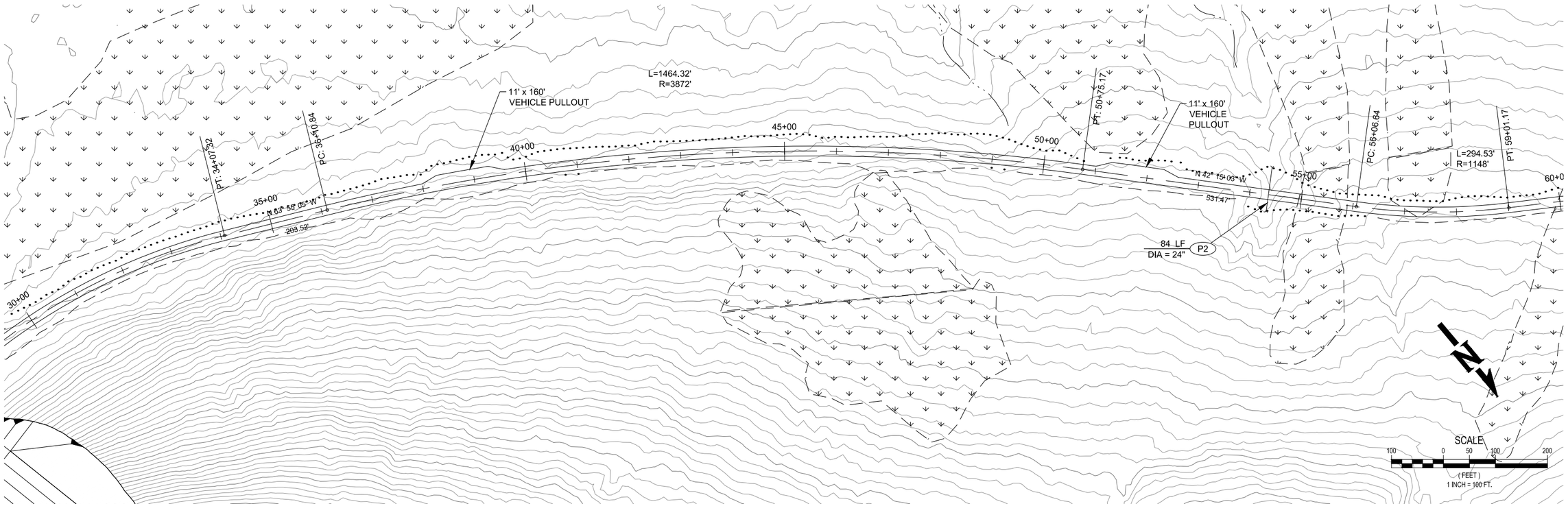
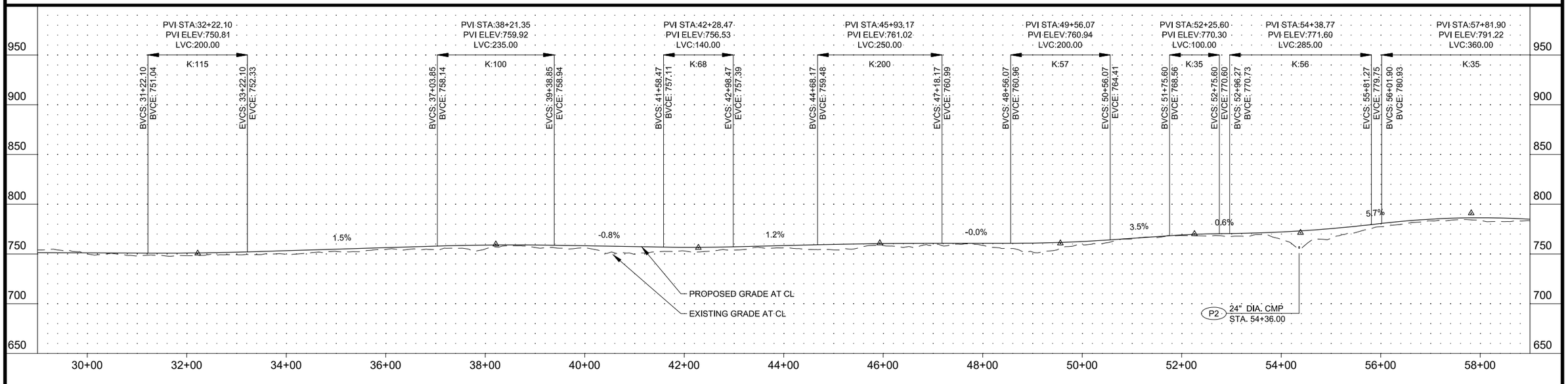
Applicant: Teck

PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	5 of 37





EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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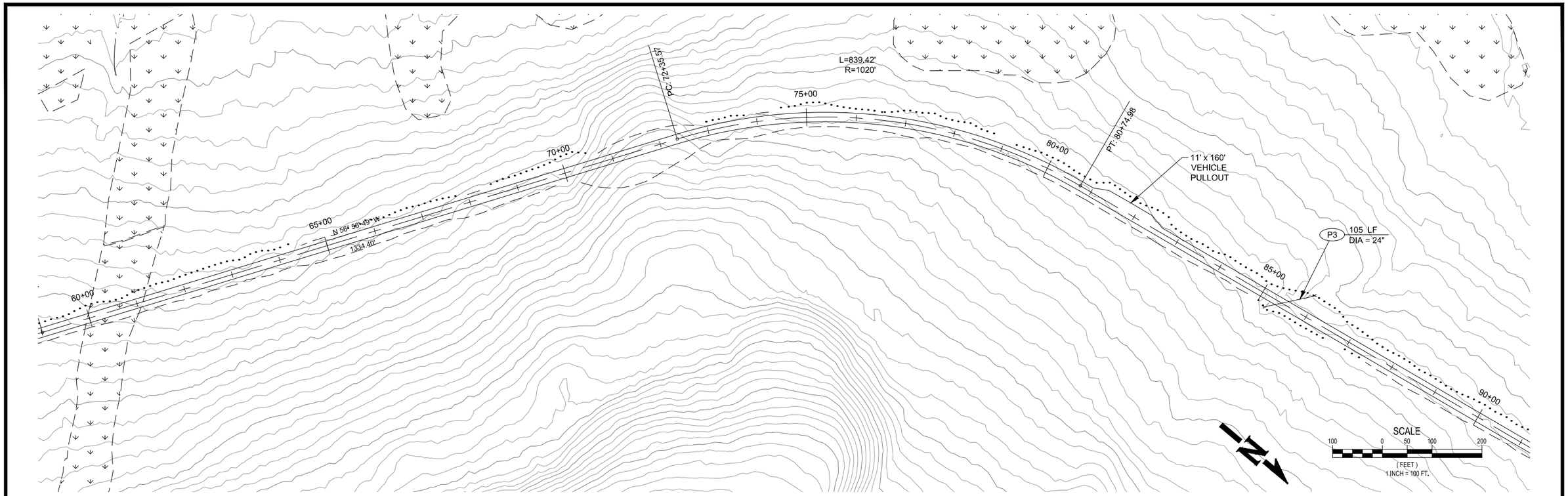
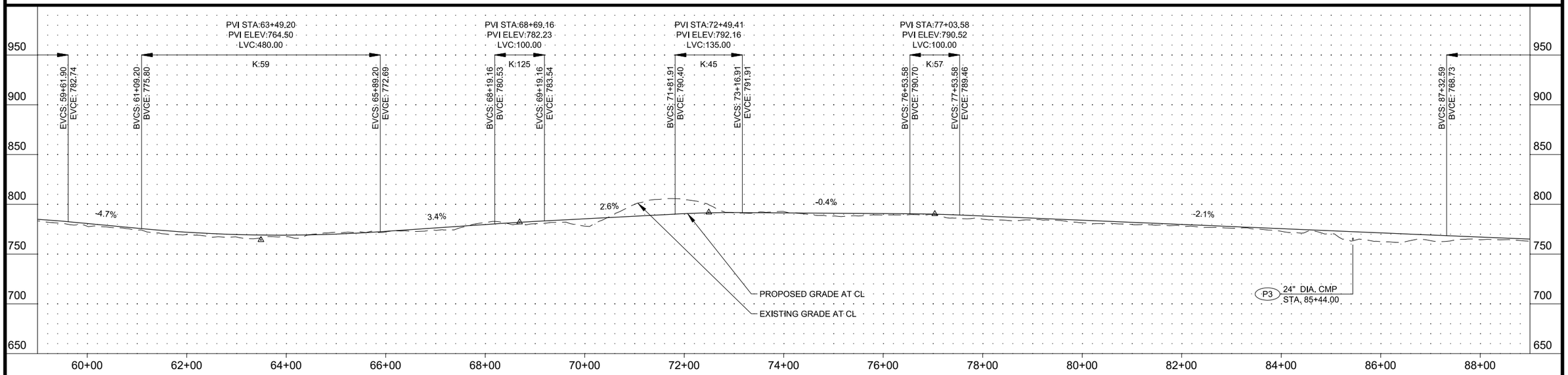
Applicant: Teck

PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	6 of 37





EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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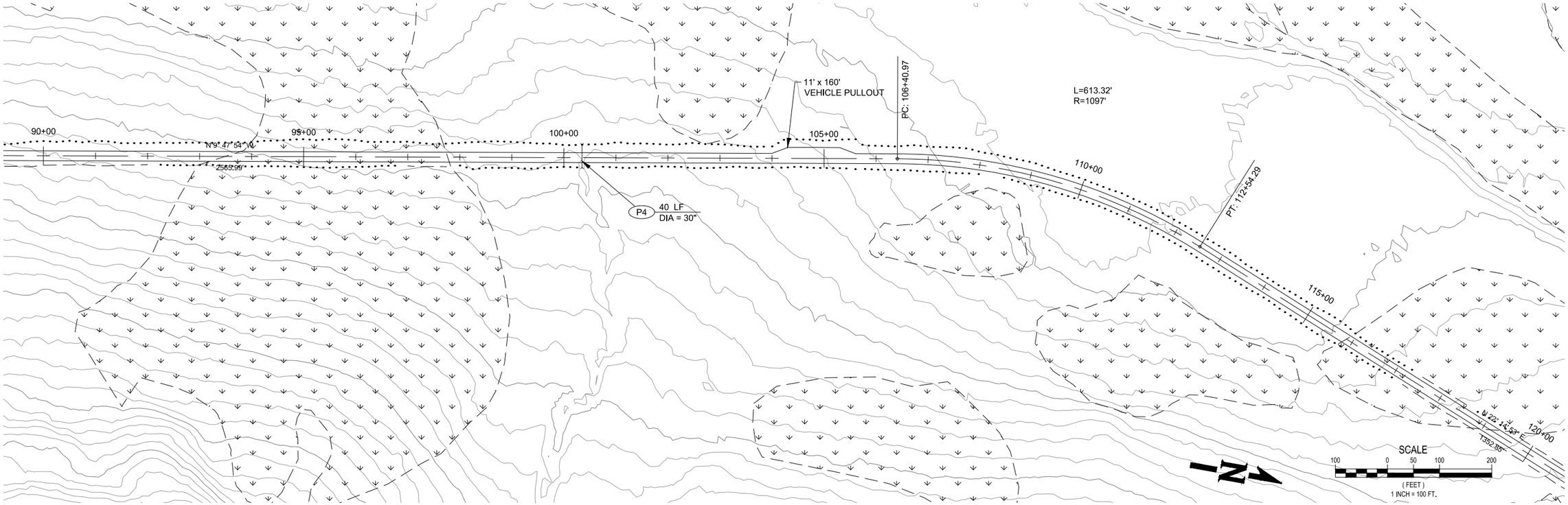
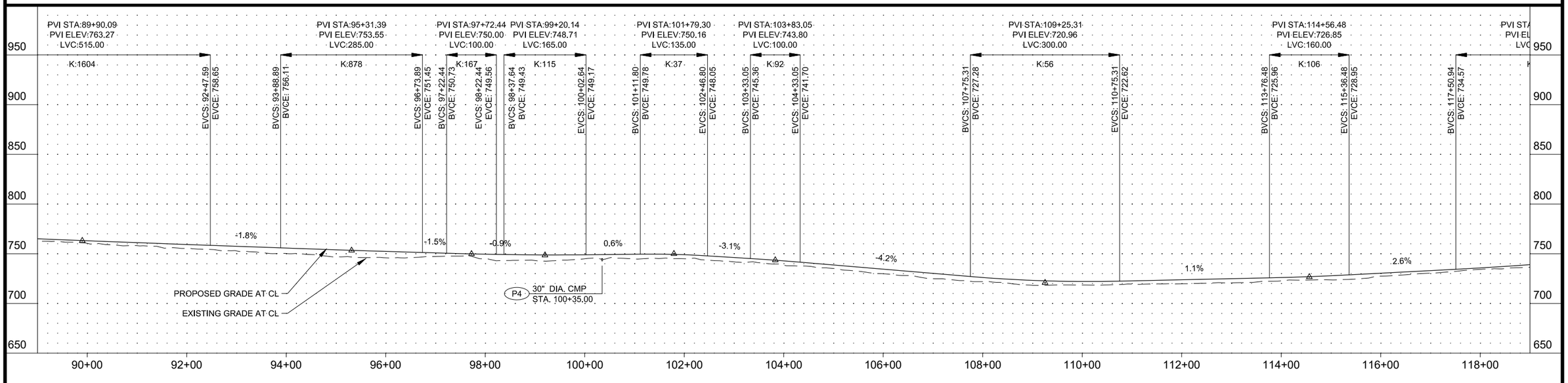
PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	7 of 37





EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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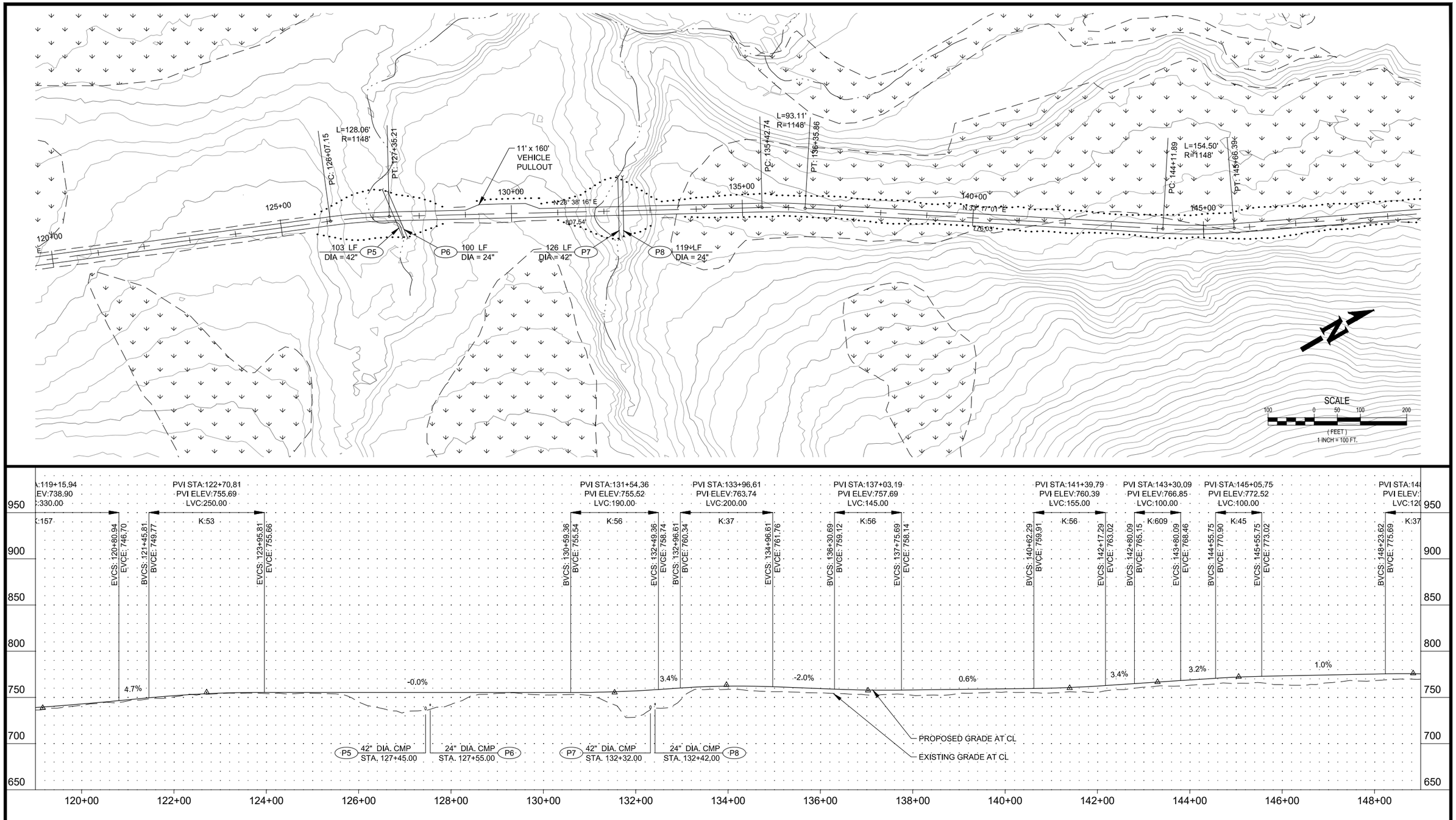
PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	8 of 37



EXISTING	PROPOSED	DESCRIPTION
		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
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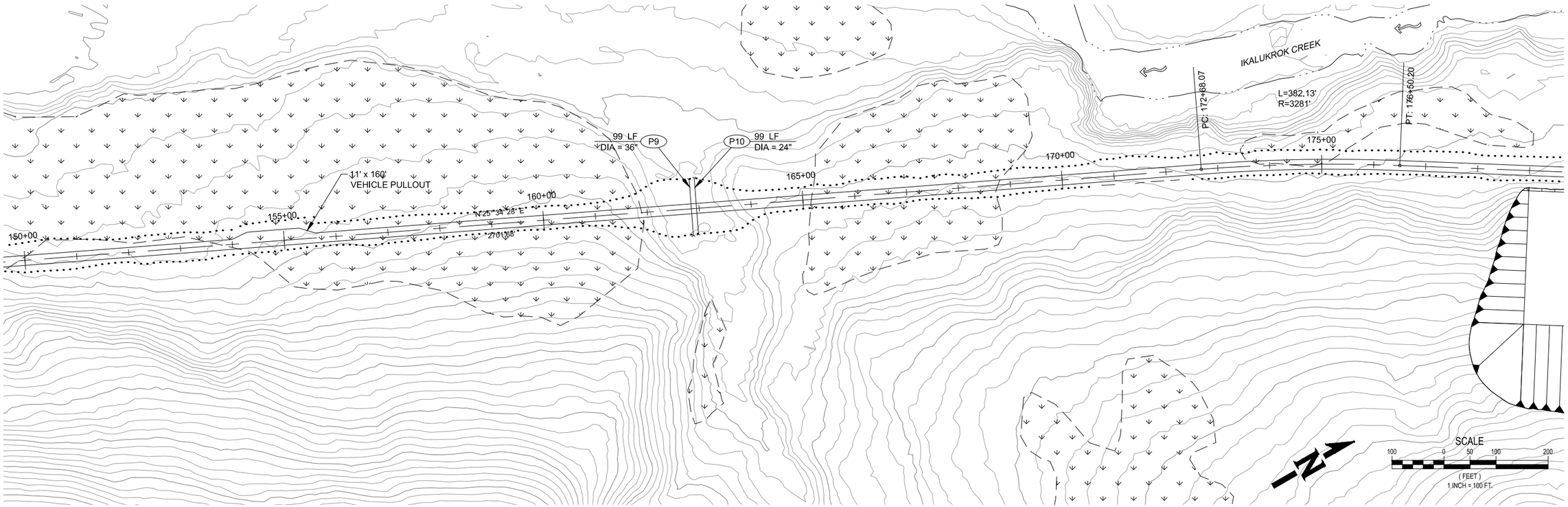
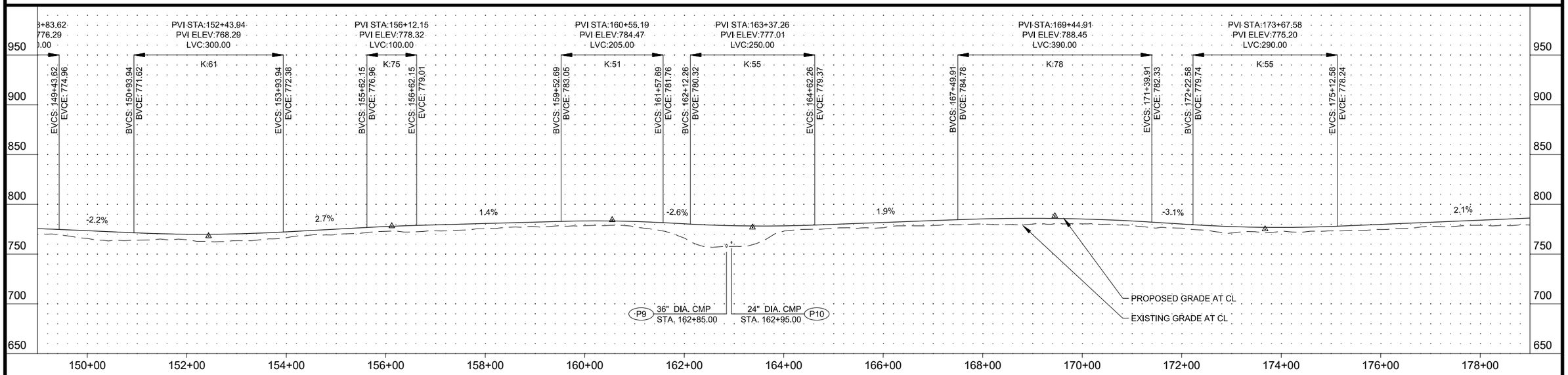
Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	9 of 37





EXISTING	PROPOSED	DESCRIPTION
		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
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		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
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Waterway:	Ikalukrok Creek	Date:	4/15/2018
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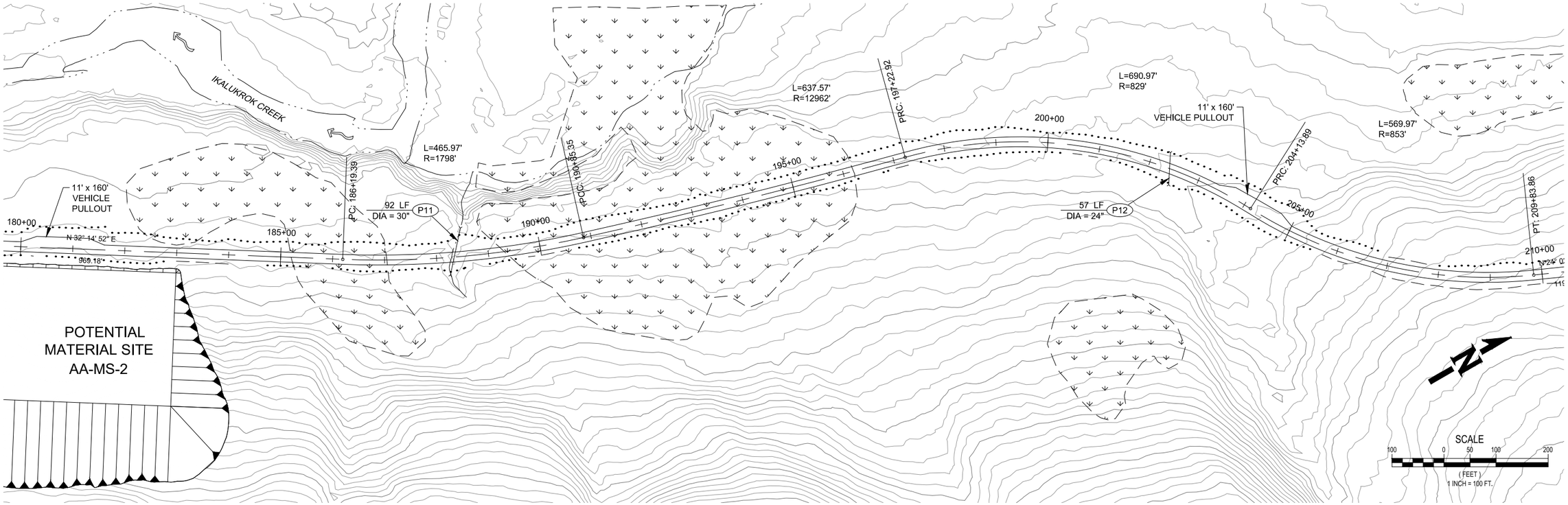

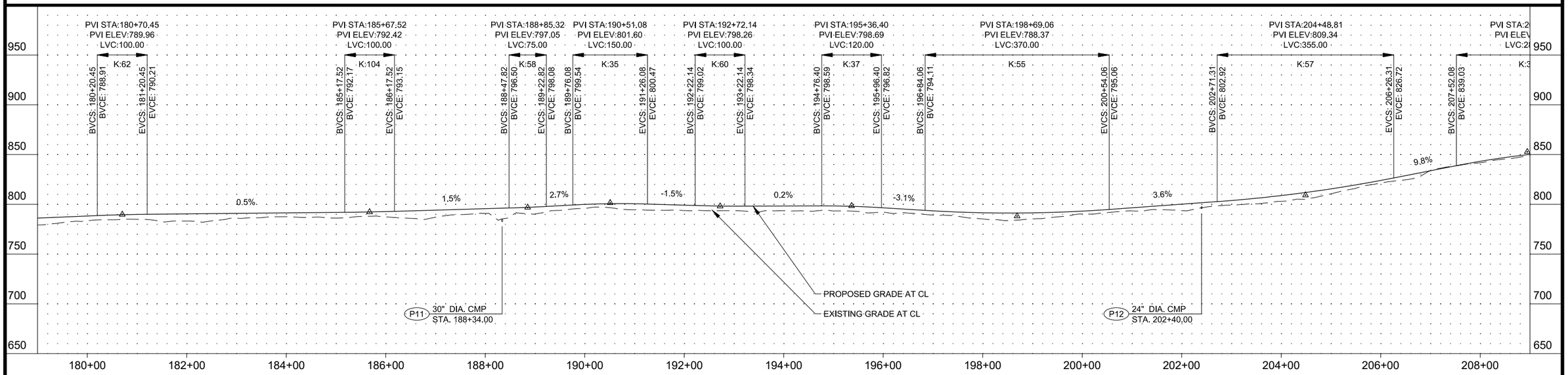

EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
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Waterway:	Ikalukrok Creek	Date:	4/15/2018
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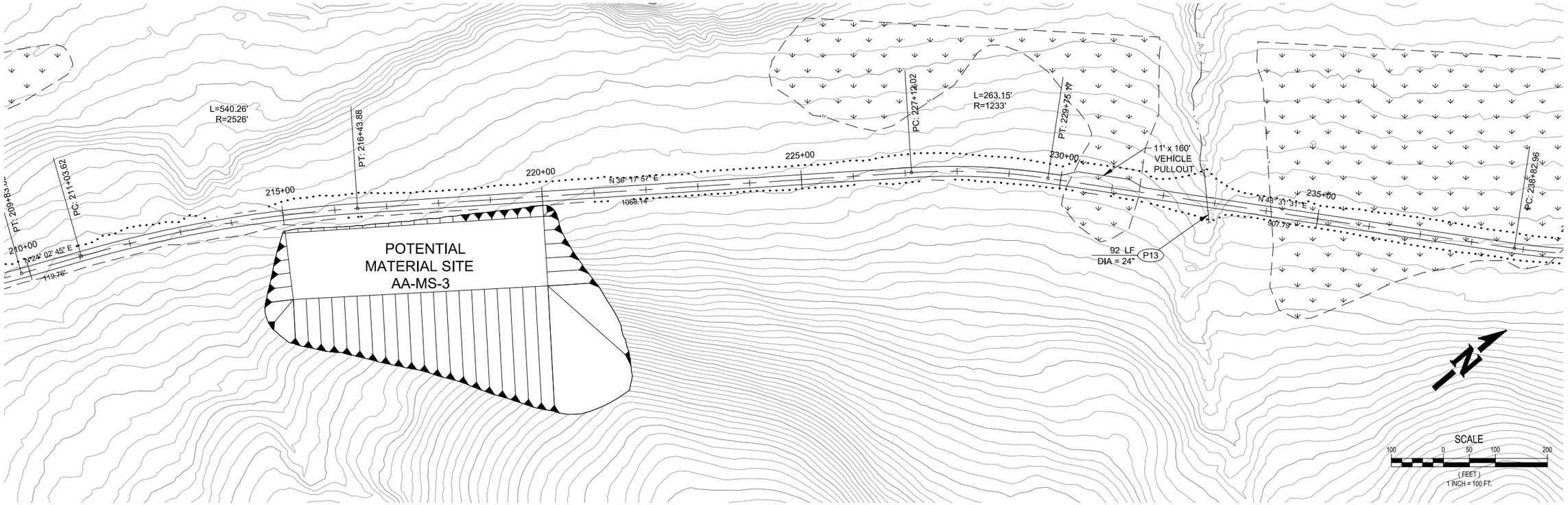

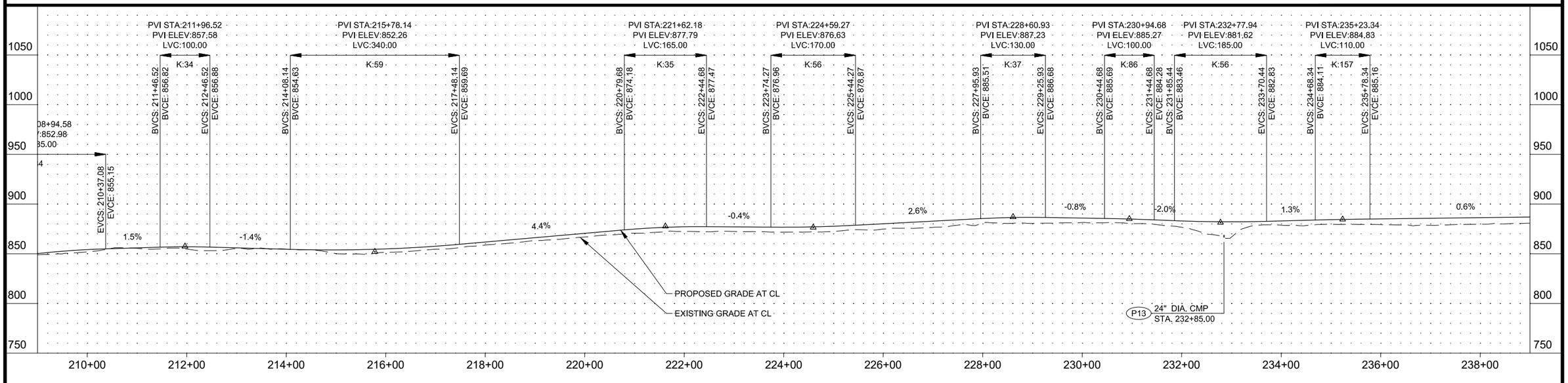

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		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
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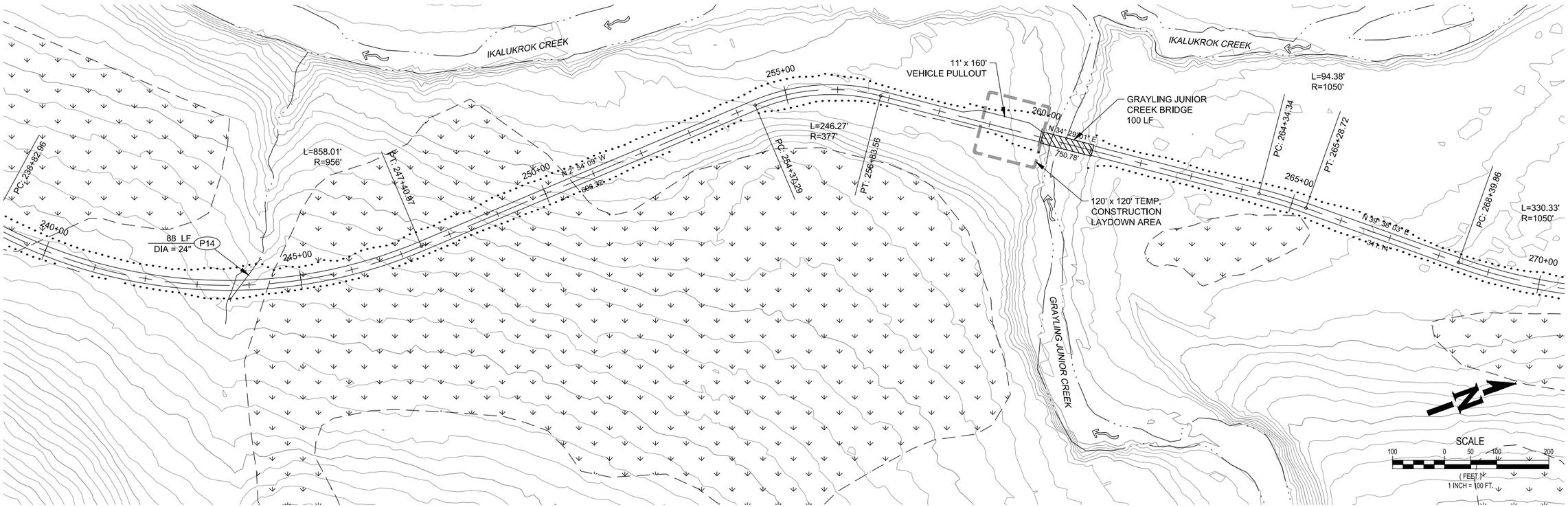
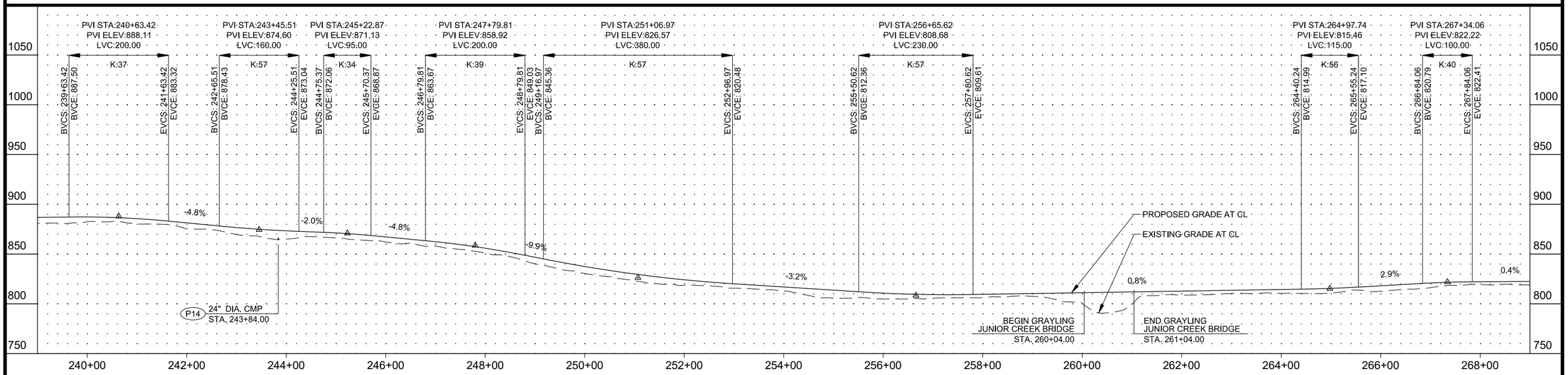
Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	12 of 37





EXISTING	PROPOSED	DESCRIPTION
		CONTOUR LINE
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		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
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		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
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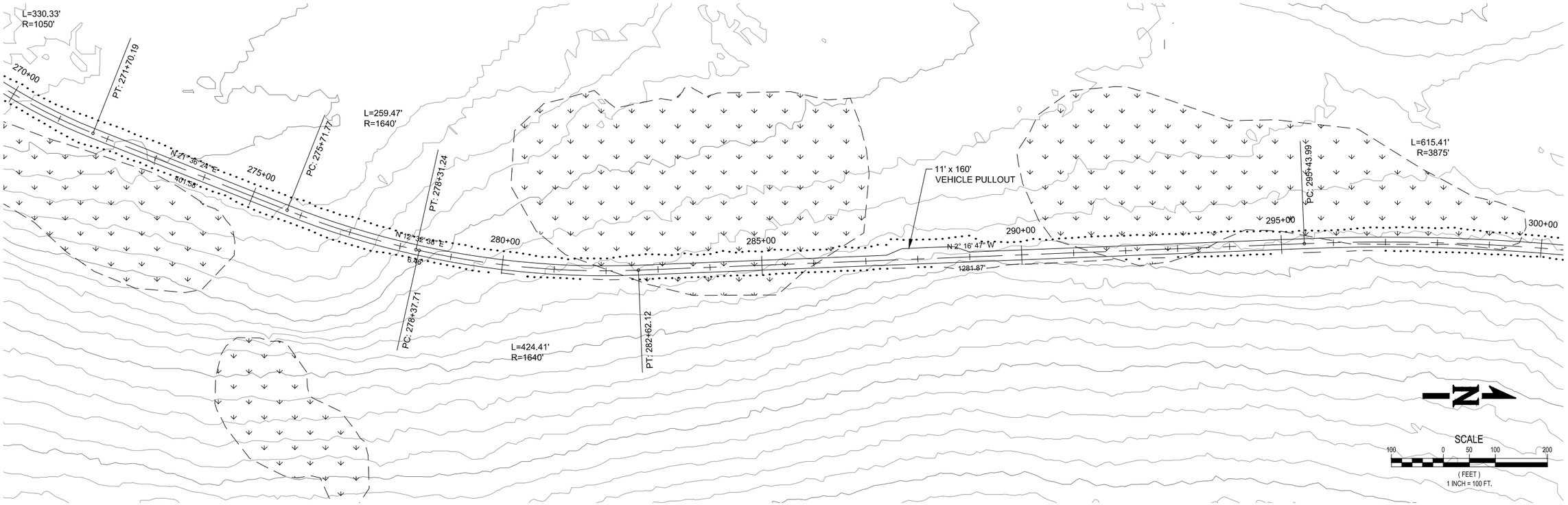

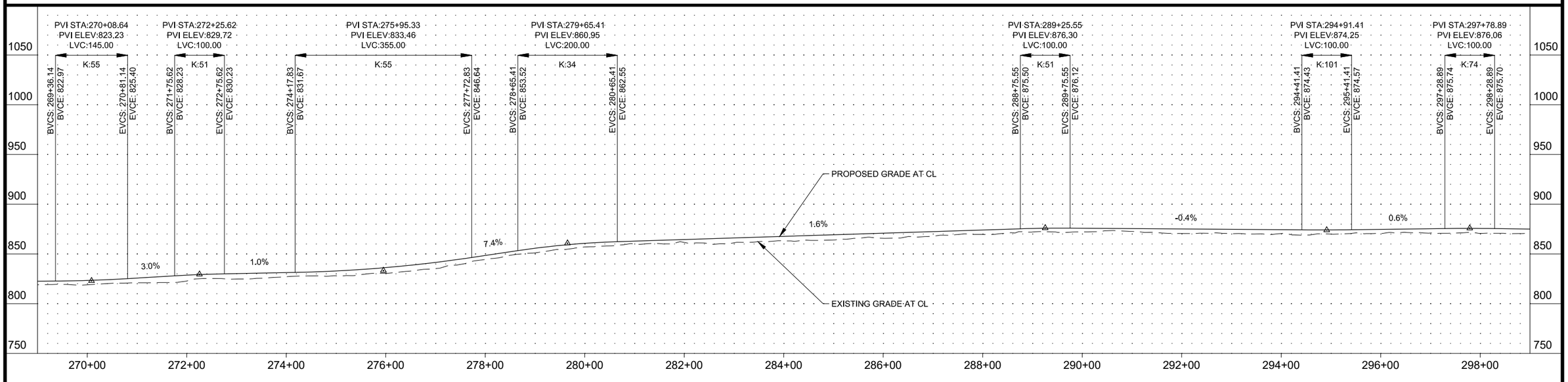

EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
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Waterway:	Ikalukrok Creek	Date:	4/15/2018
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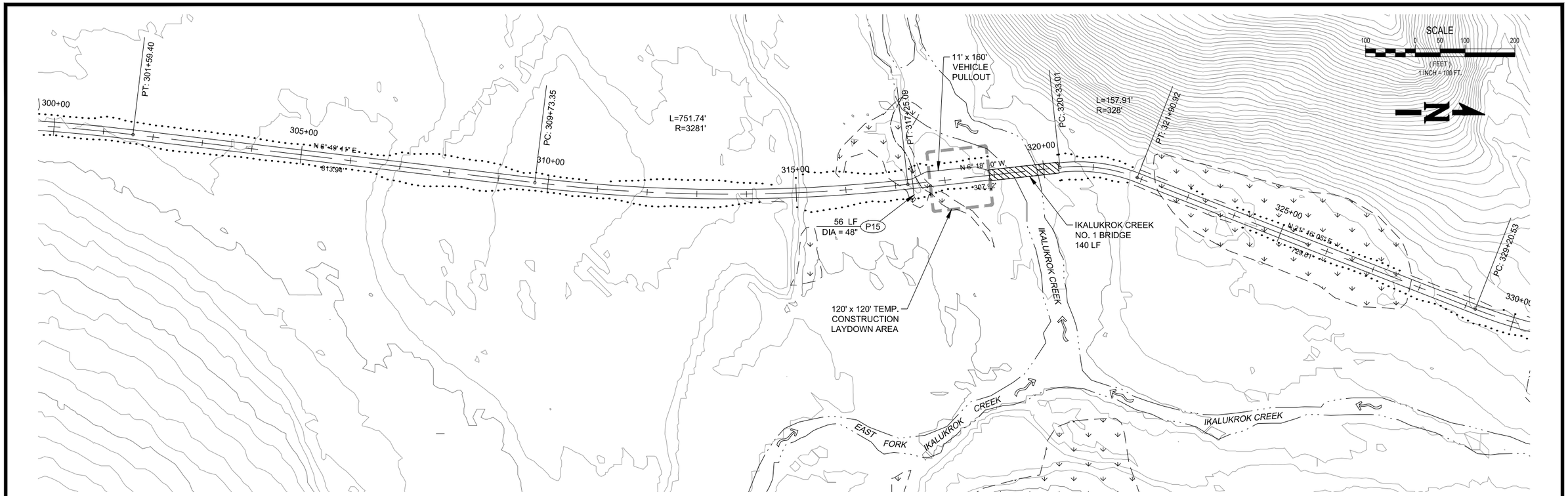

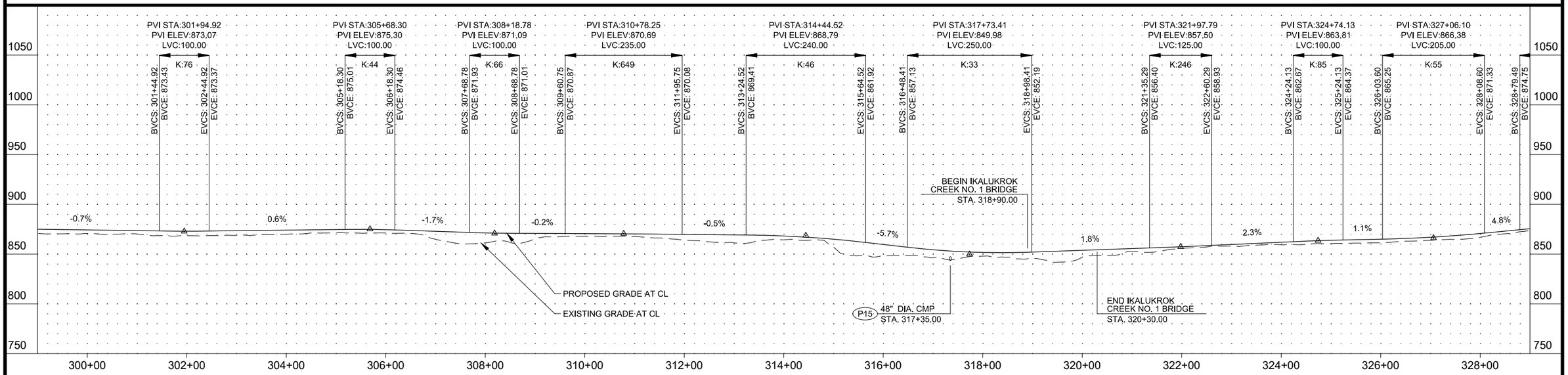

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		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
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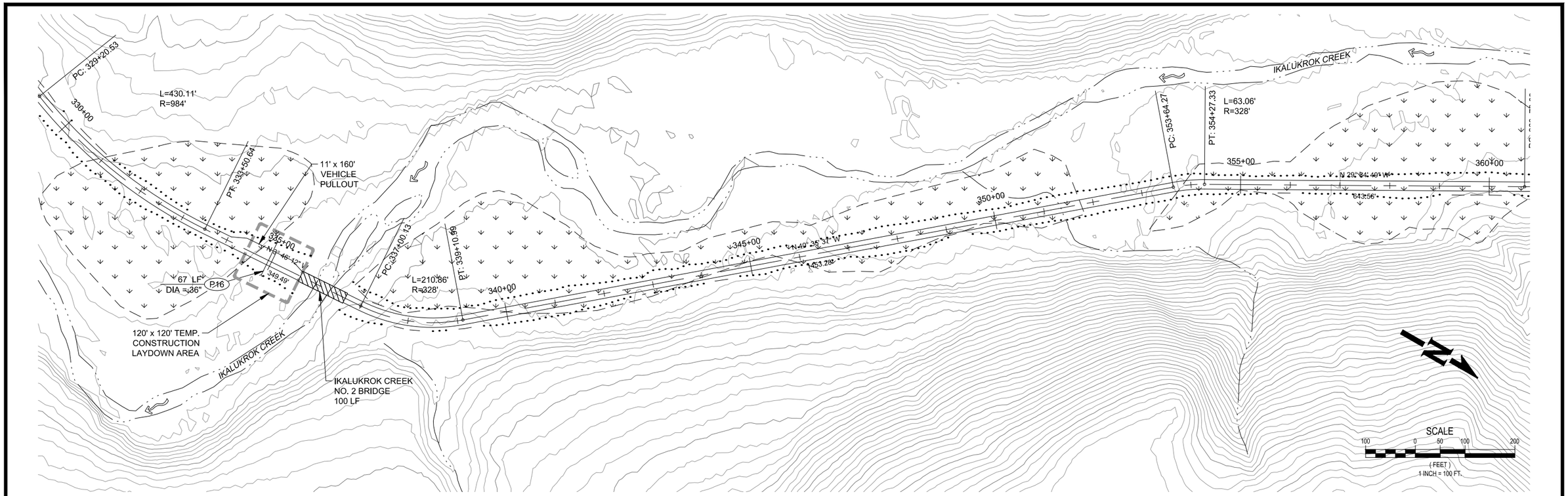

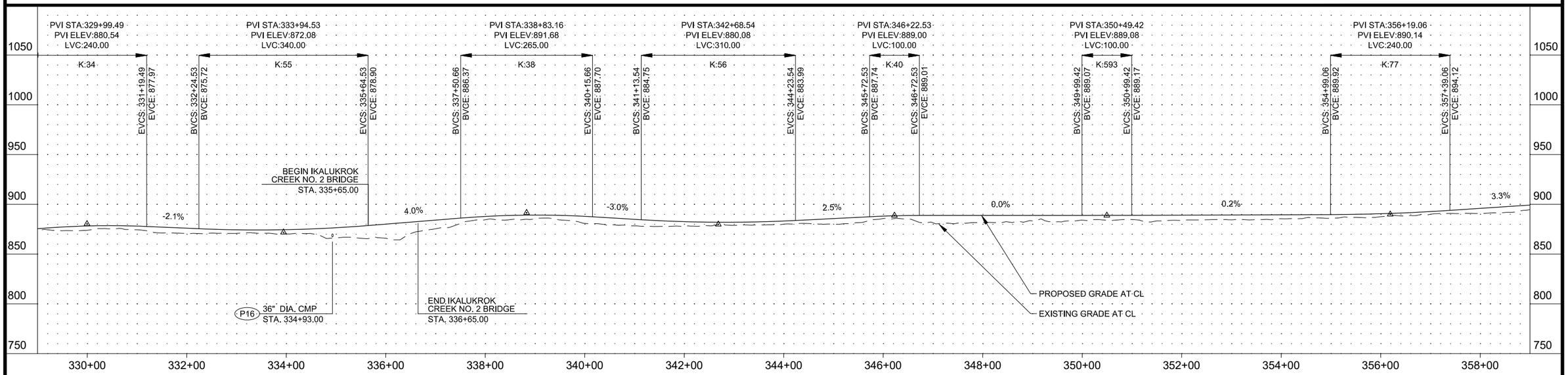

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94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
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Waterway:	Ikalukrok Creek	Date:	4/15/2018
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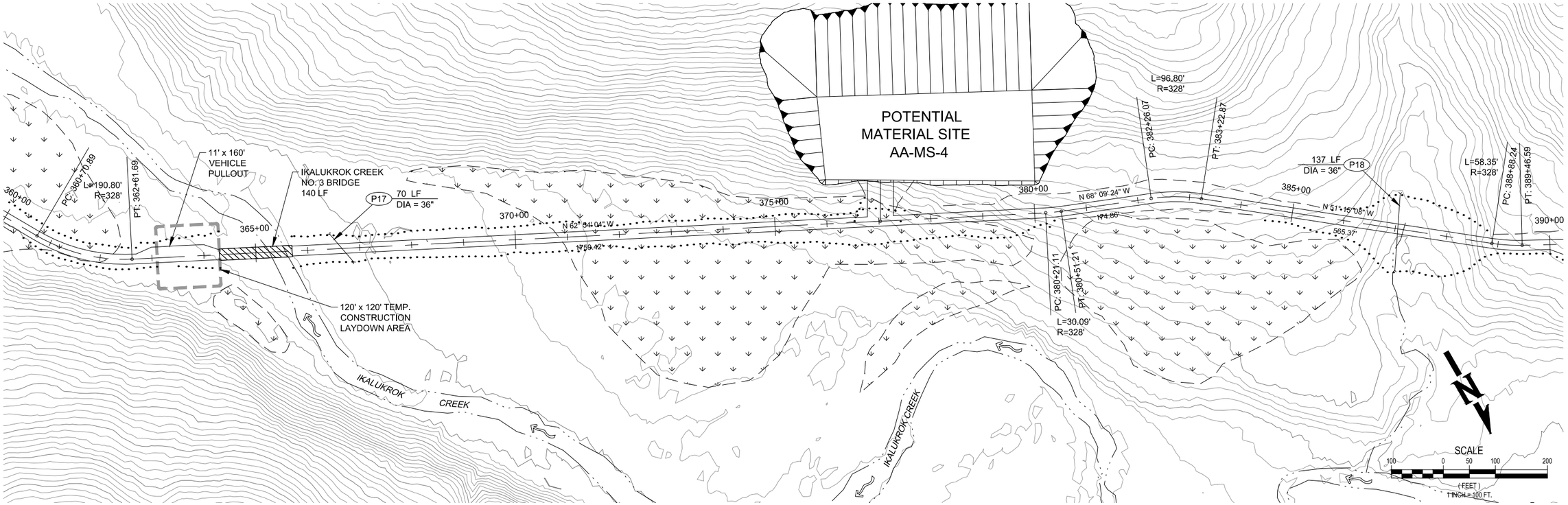

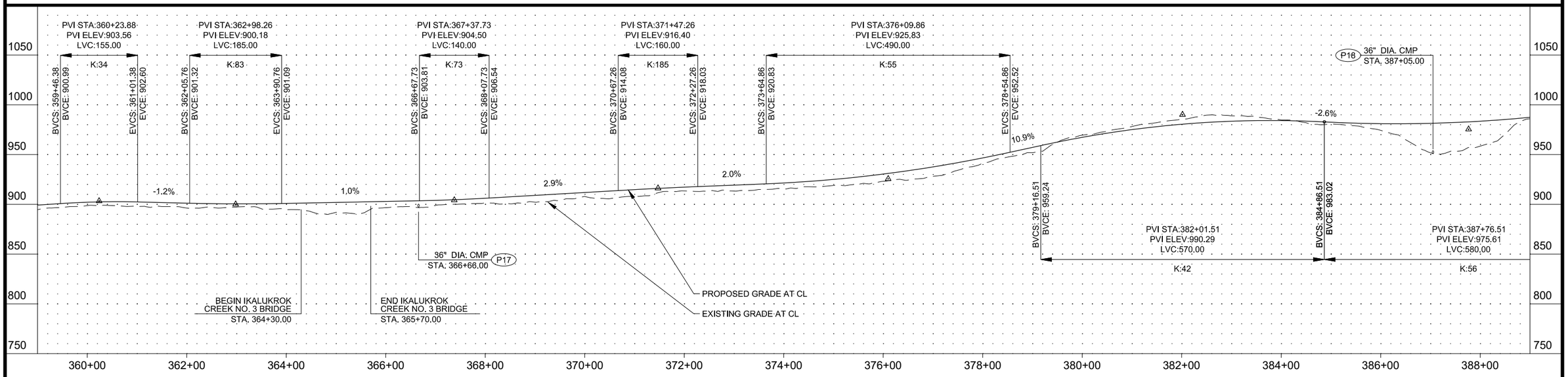

EXISTING	PROPOSED	DESCRIPTION
		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
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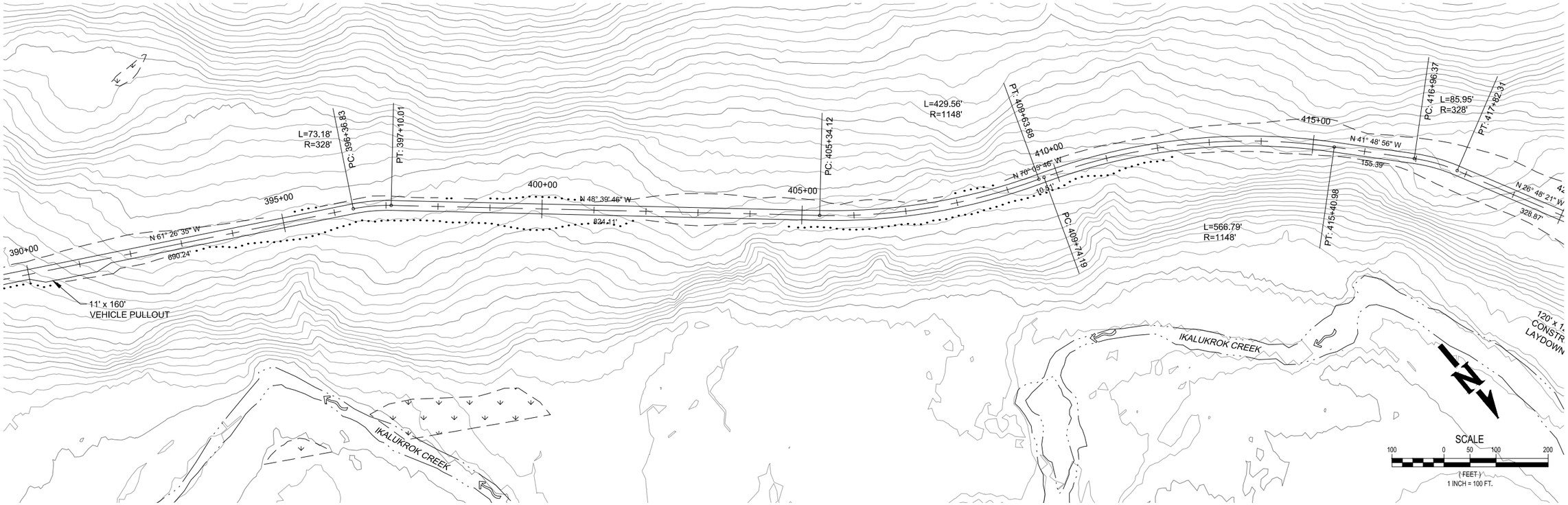
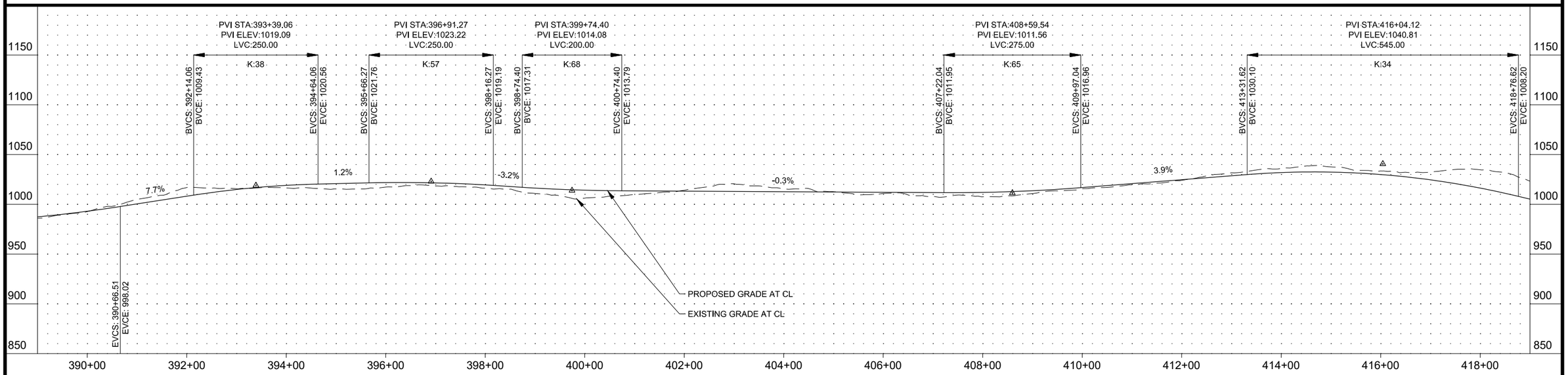
Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	17 of 37





EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
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Waterway:	Ikalukrok Creek	Date:	4/15/2018
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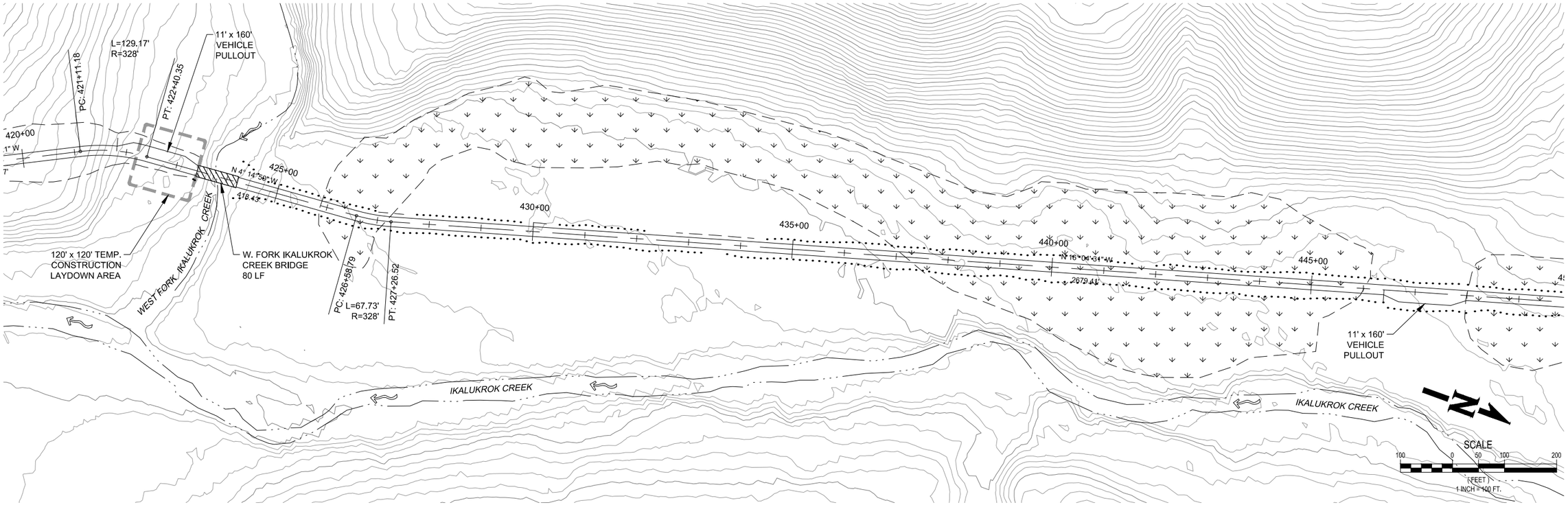

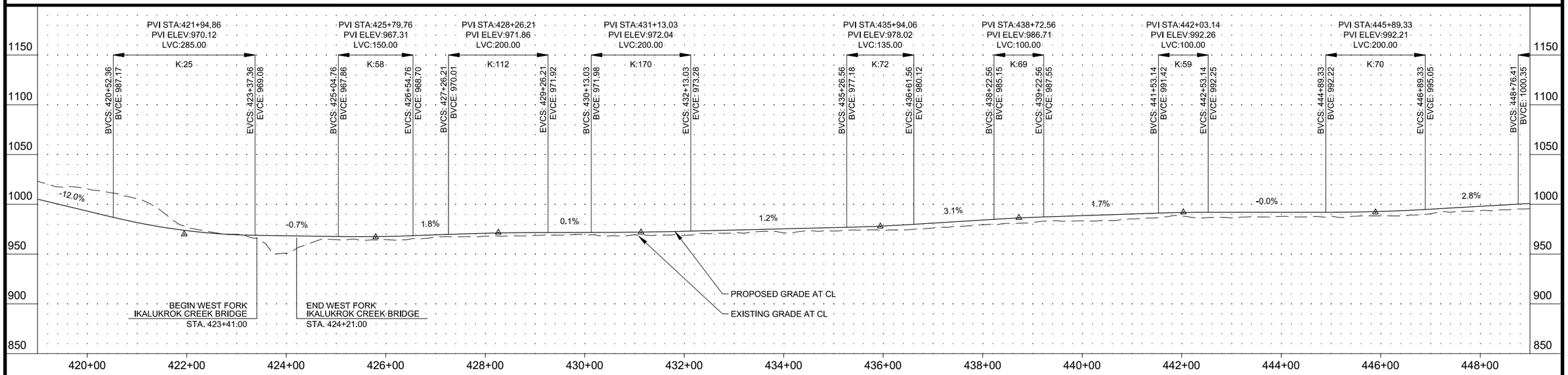

EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
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Waterway:	Ikalukrok Creek	Date:	4/15/2018
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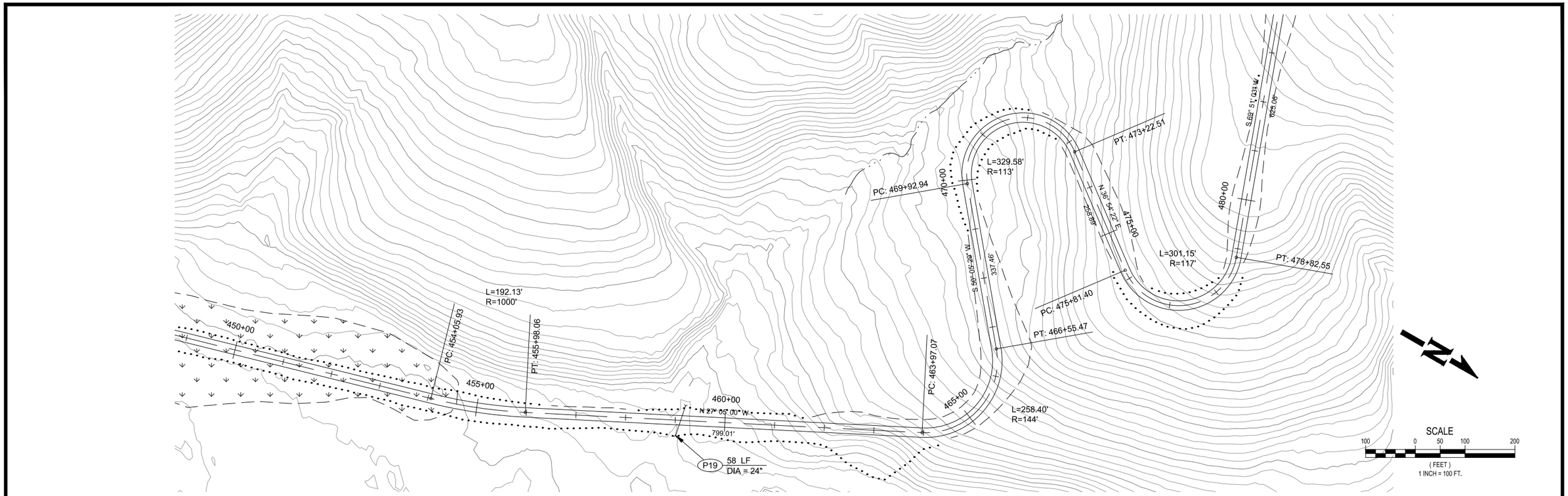

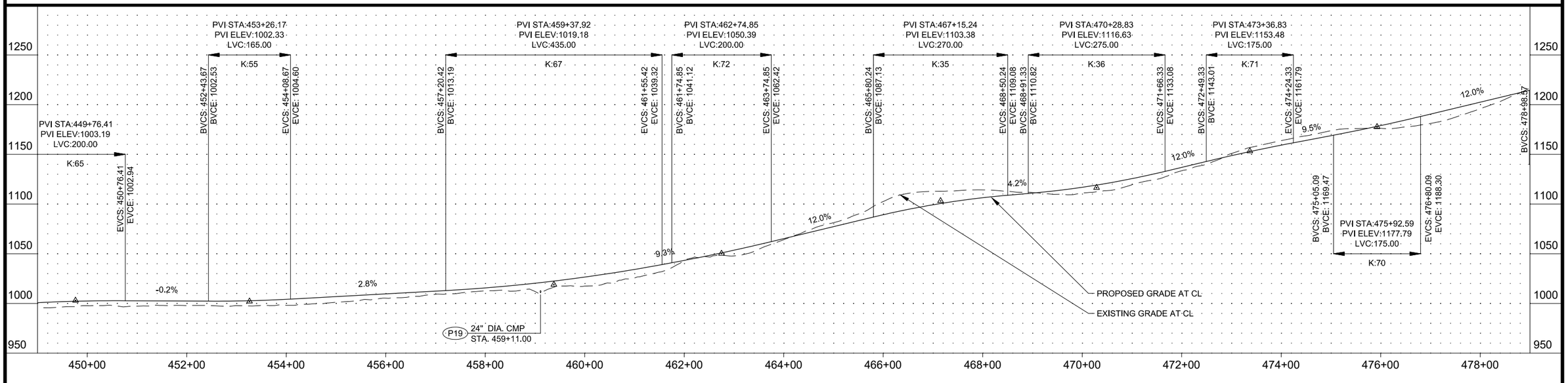

EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
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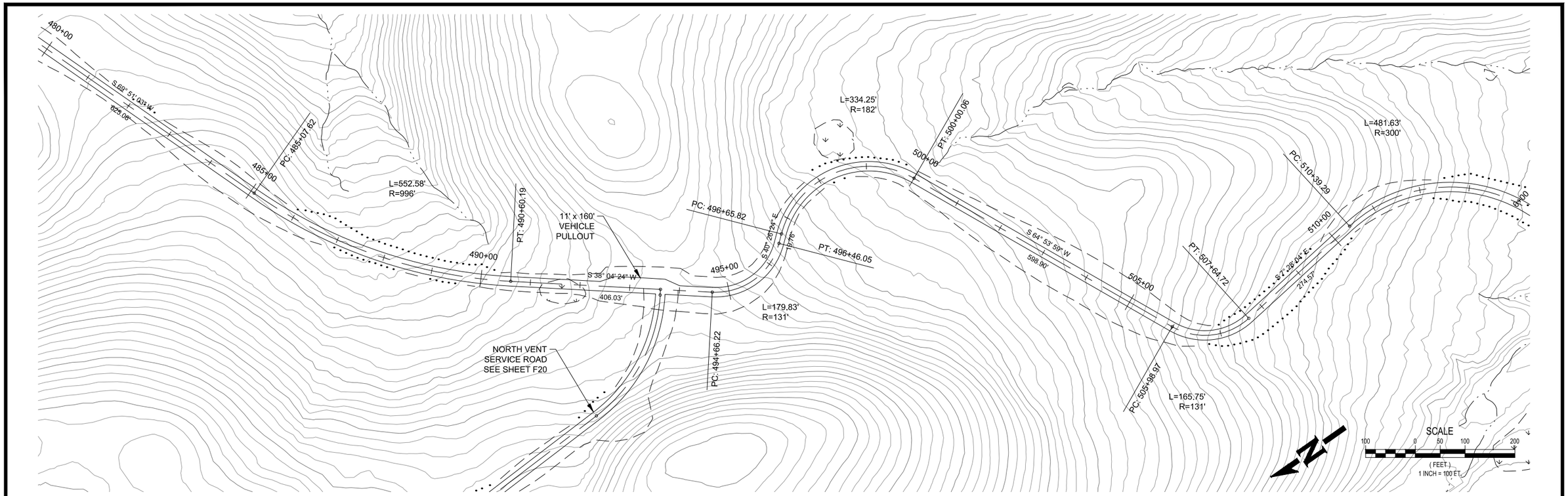
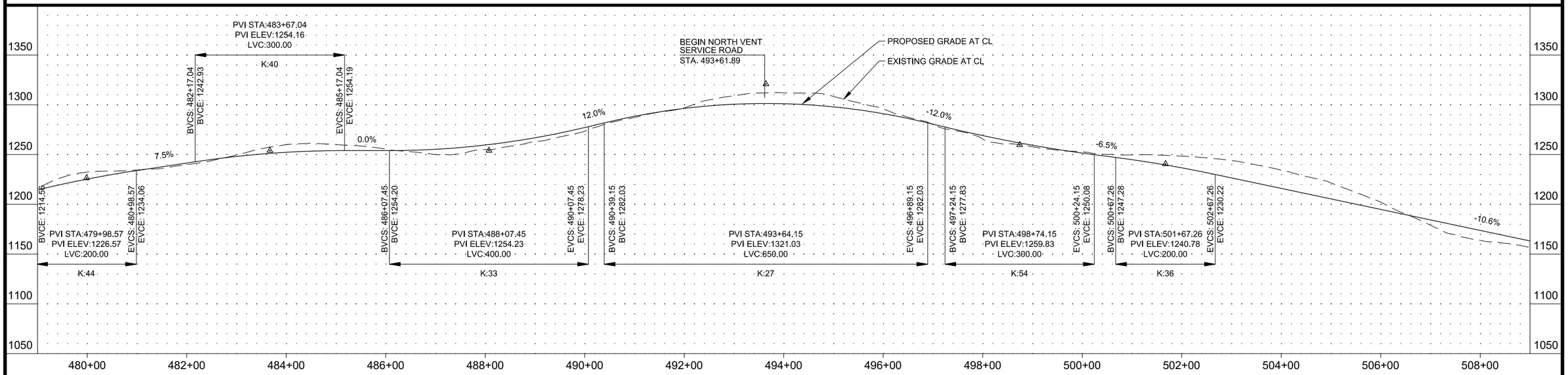
Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	20 of 37





EXISTING	PROPOSED	DESCRIPTION
		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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Waterway:	Ikalukrok Creek	Date:	4/15/2018
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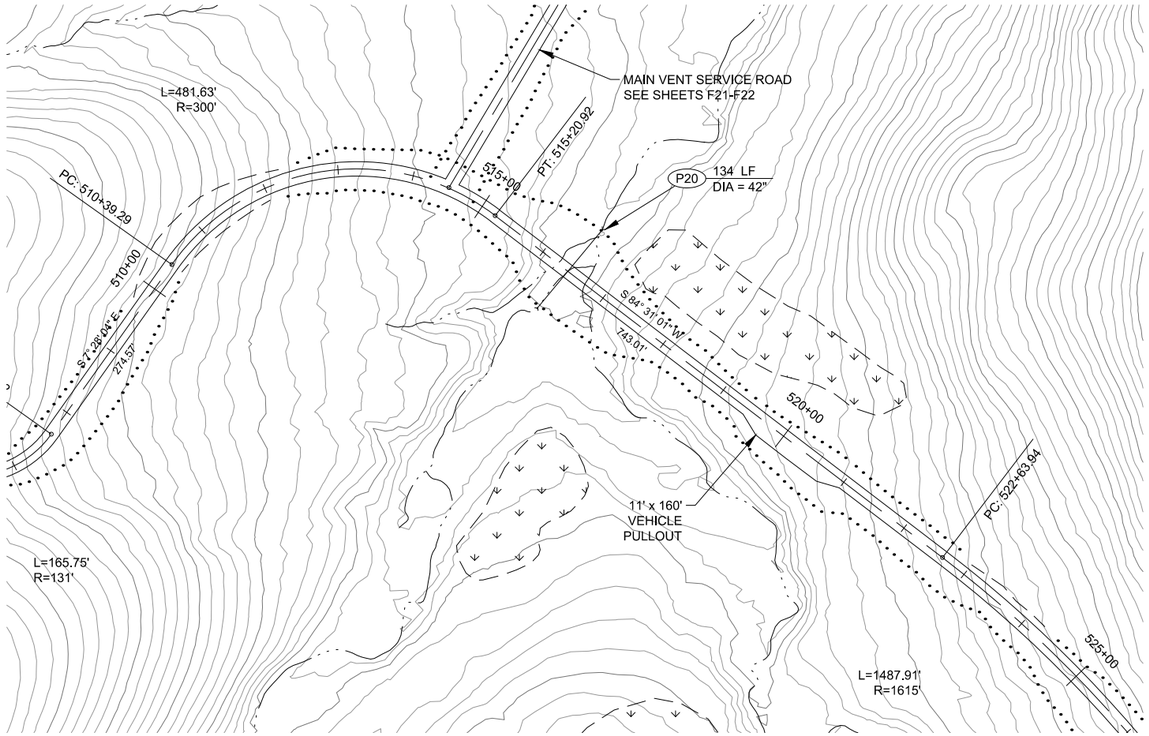

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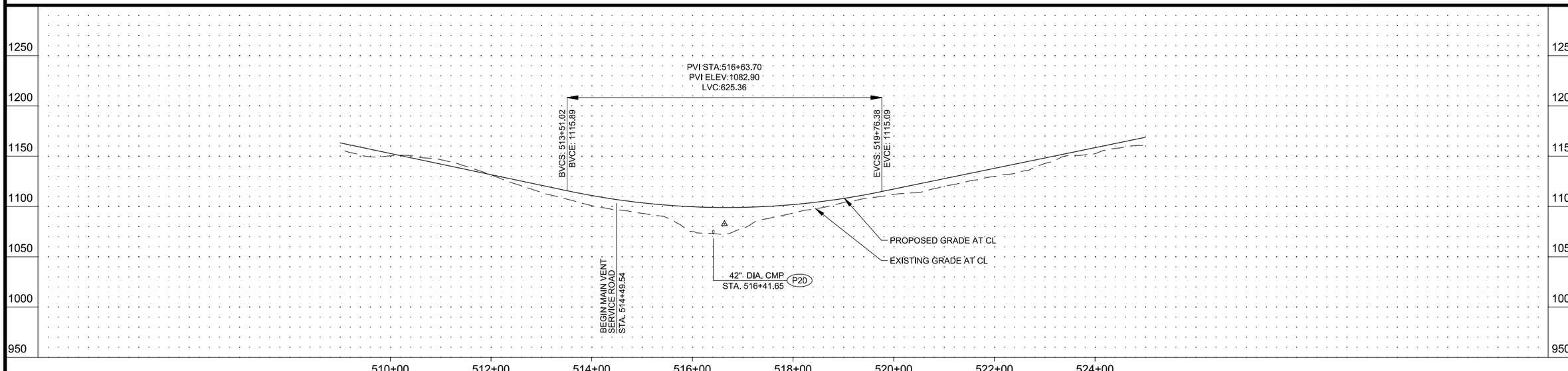

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE			EXTENT OF FILL SECTION			BRIDGE
		EXPLORATION ACCESS ROADS			DITCH / SWALE			WETLANDS
		EDGE OF GRAVEL ROAD			CULVERT		P1 XX LF DIA=XX"	INSTALL CULVERT
		EXTENT OF CUT SECTION			CREEK			

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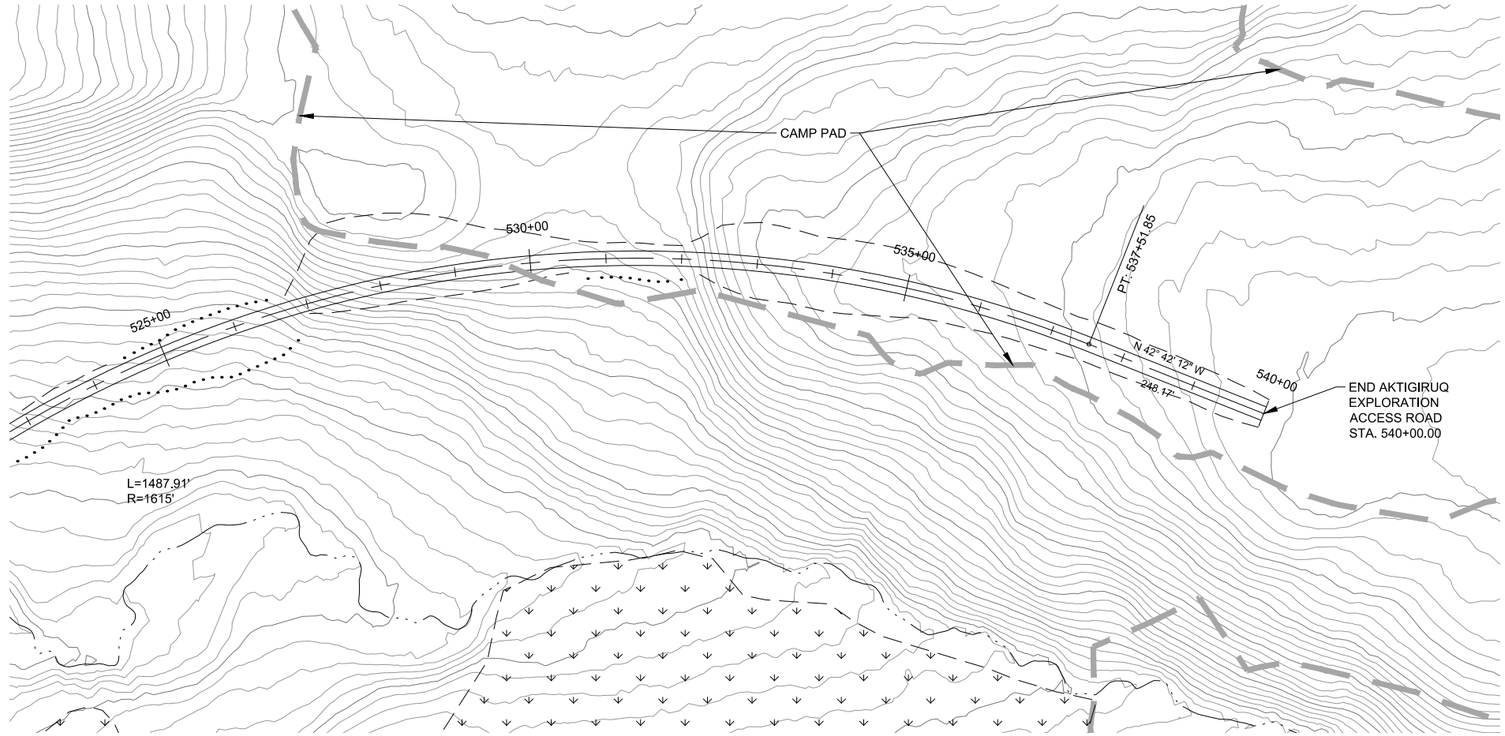
Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	22 of 37



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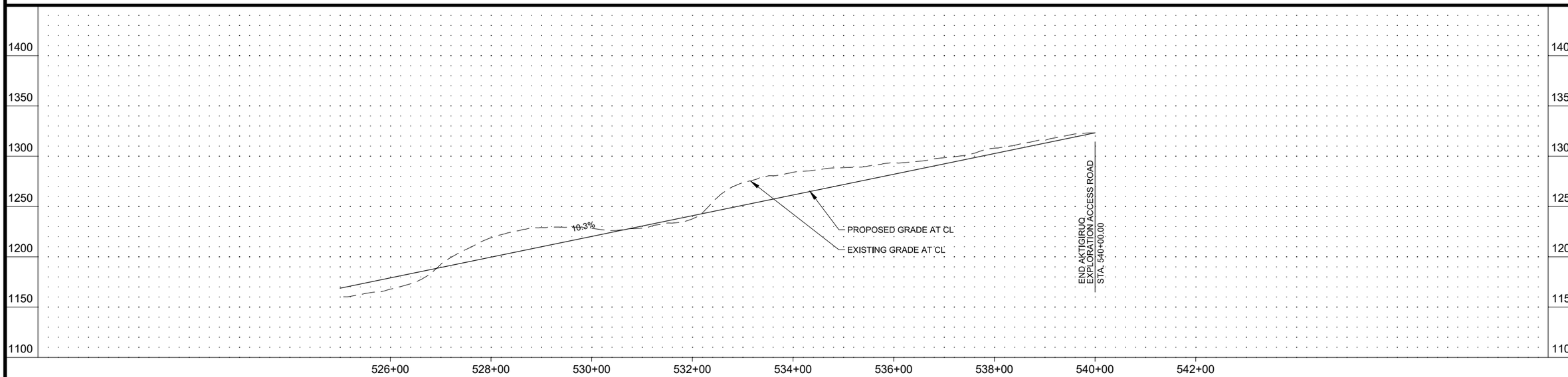

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE			EXTENT OF FILL SECTION			BRIDGE
		EXPLORATION ACCESS ROADS			DITCH / SWALE			WETLANDS
		EDGE OF GRAVEL ROAD			CULVERT		P1 XX LF DIA=XX"	INSTALL CULVERT
		EXTENT OF CUT SECTION			CREEK			

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PROPOSED ACCESS ROAD
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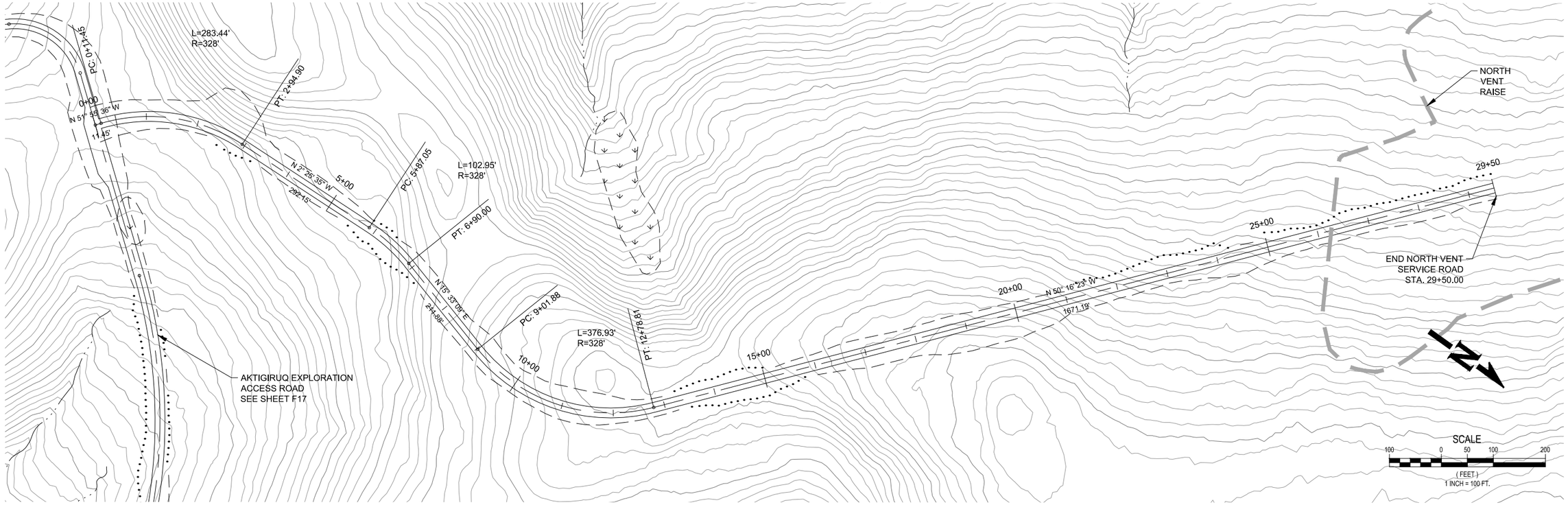
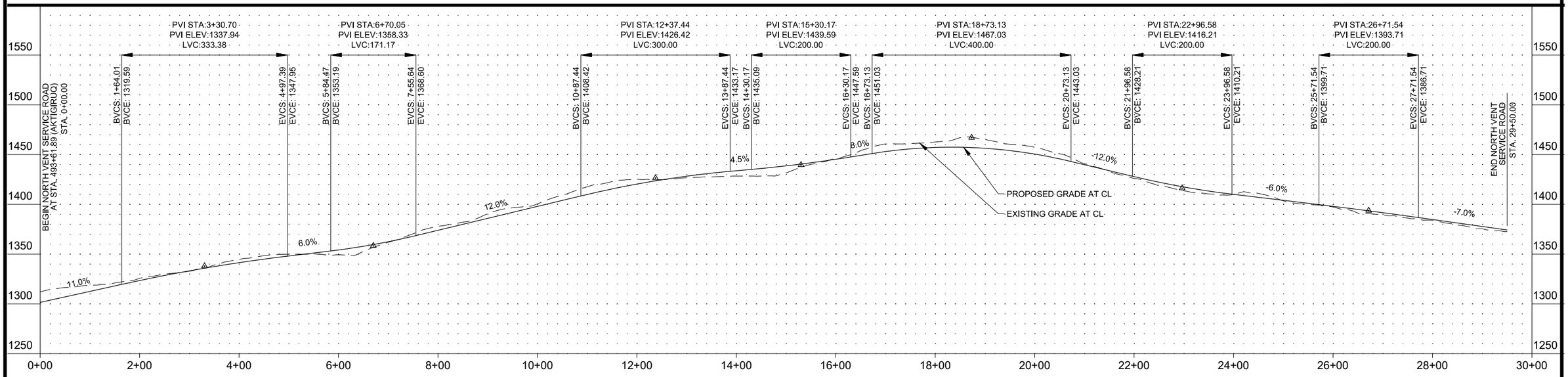
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	23 of 37





EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
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Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
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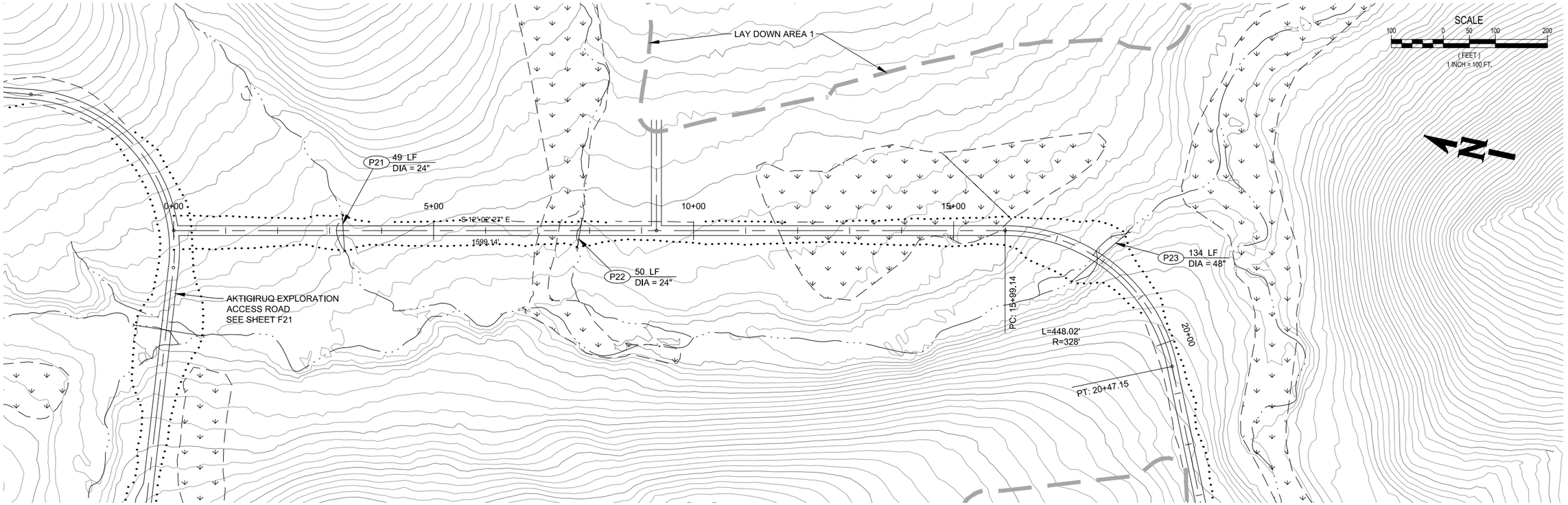

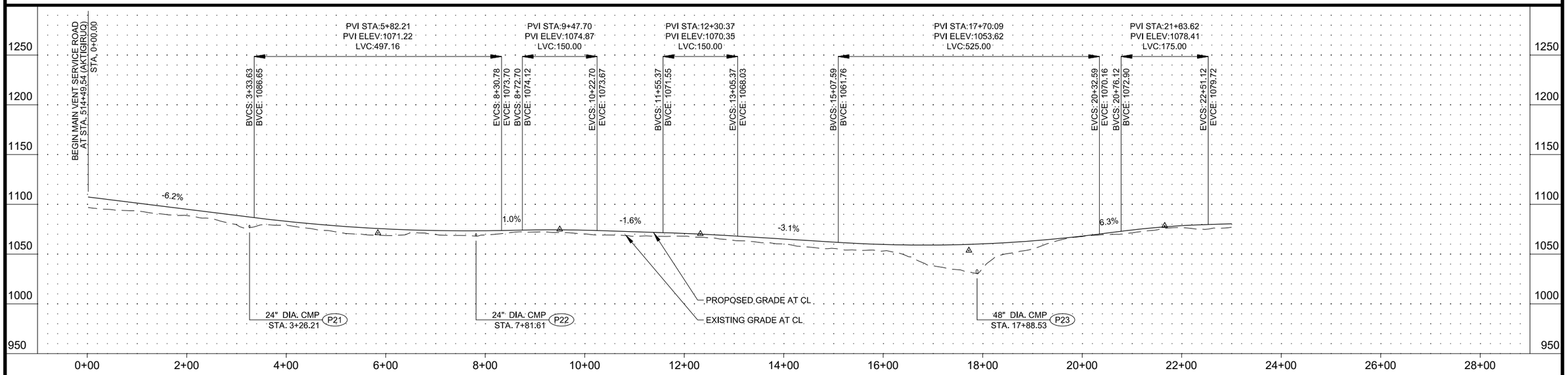

EXISTING	PROPOSED	DESCRIPTION
		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
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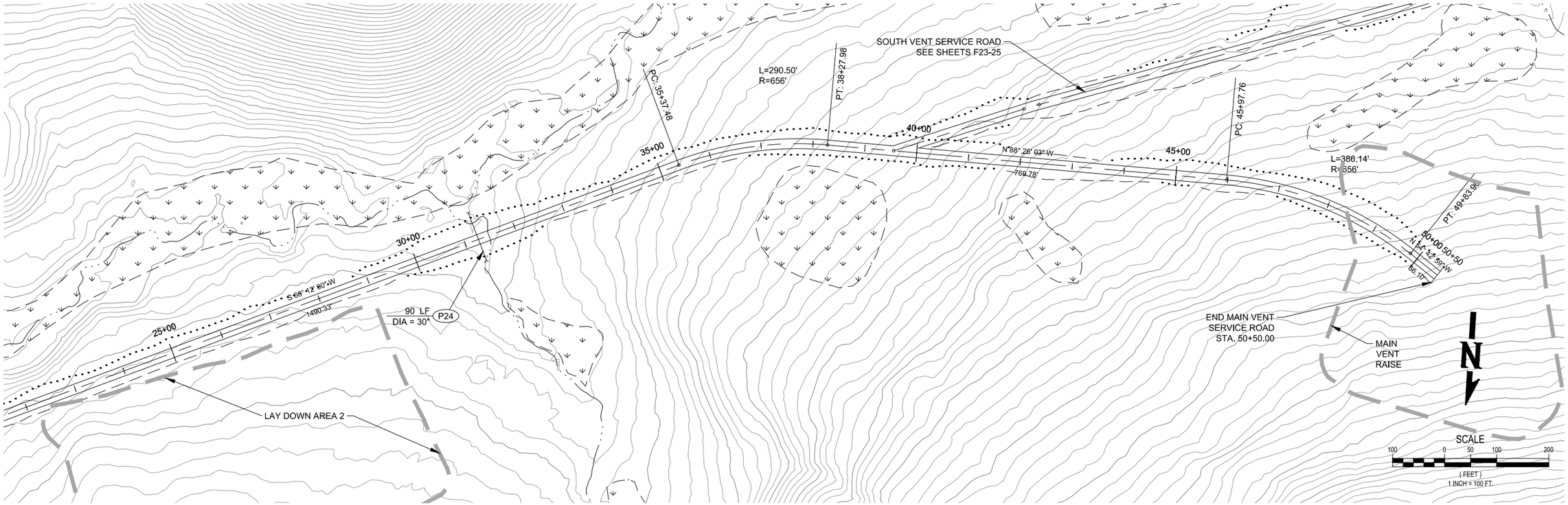
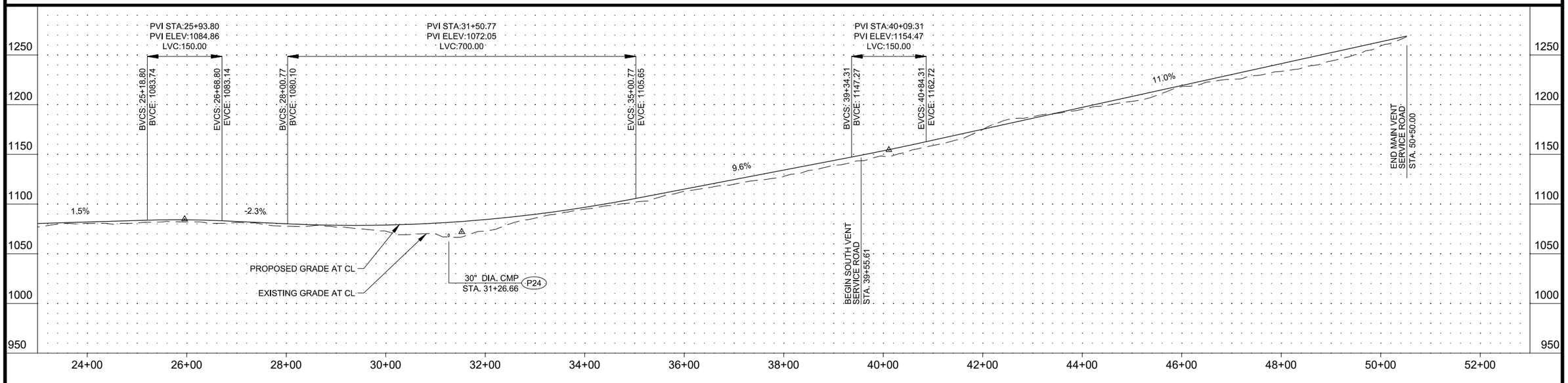
Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	25 of 37





EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE			EXTENT OF FILL SECTION			BRIDGE
		EXPLORATION ACCESS ROADS			DITCH / SWALE			WETLANDS
		EDGE OF GRAVEL ROAD			CULVERT		P1 XX LF DIA=XX"	INSTALL CULVERT
		EXTENT OF CUT SECTION			CREEK			

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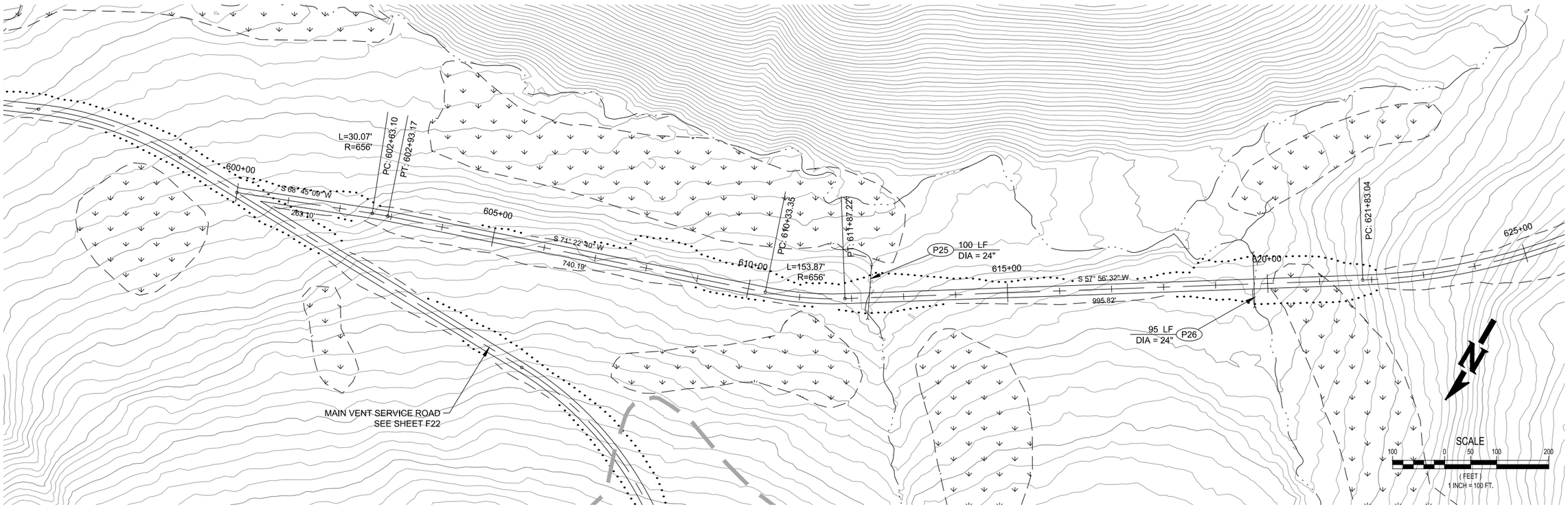
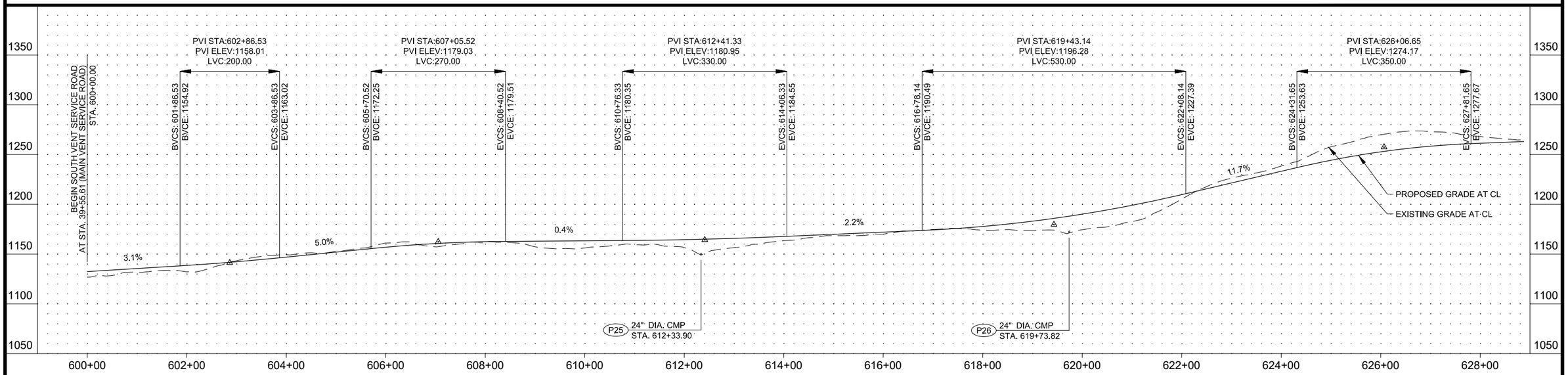
PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	26 of 37





EXISTING	PROPOSED	DESCRIPTION
		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
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Waterway:	Ikalukrok Creek	Date:	4/15/2018
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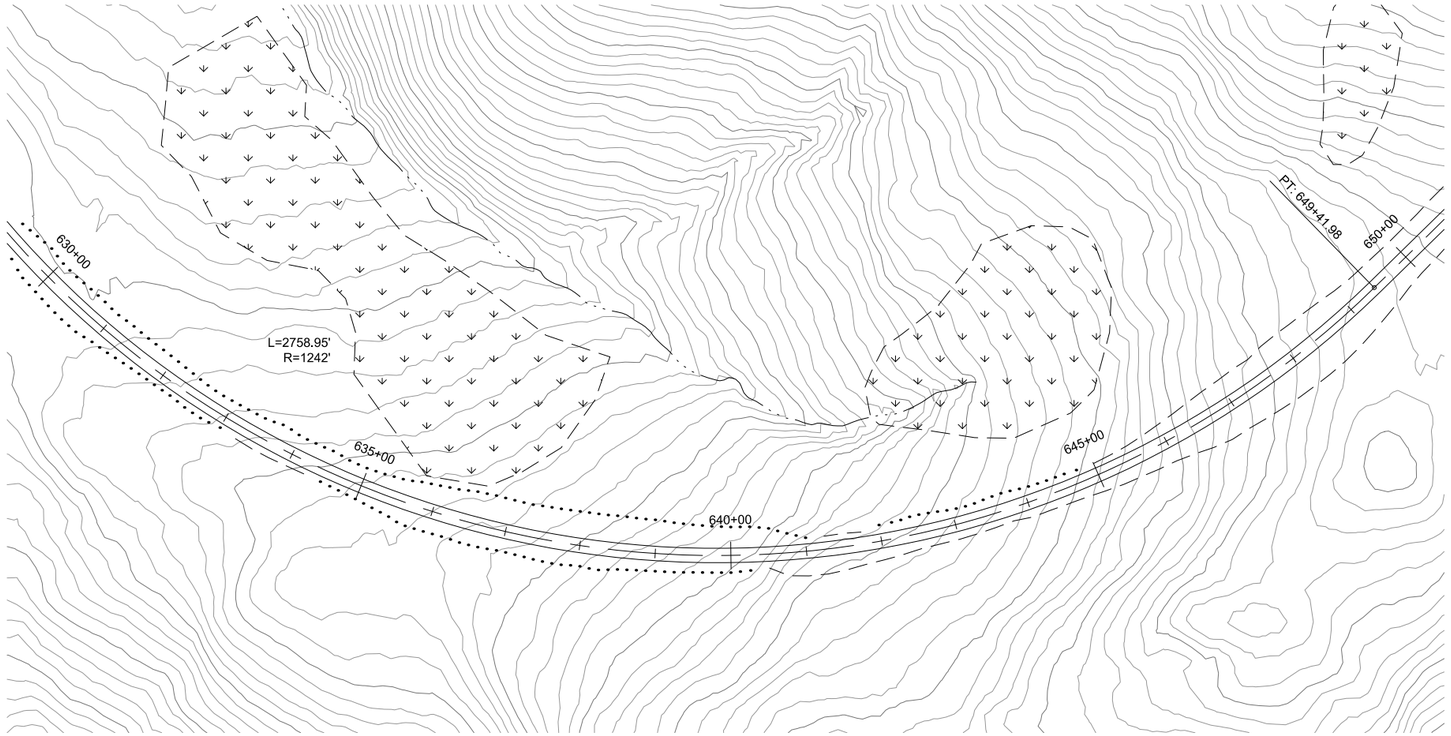

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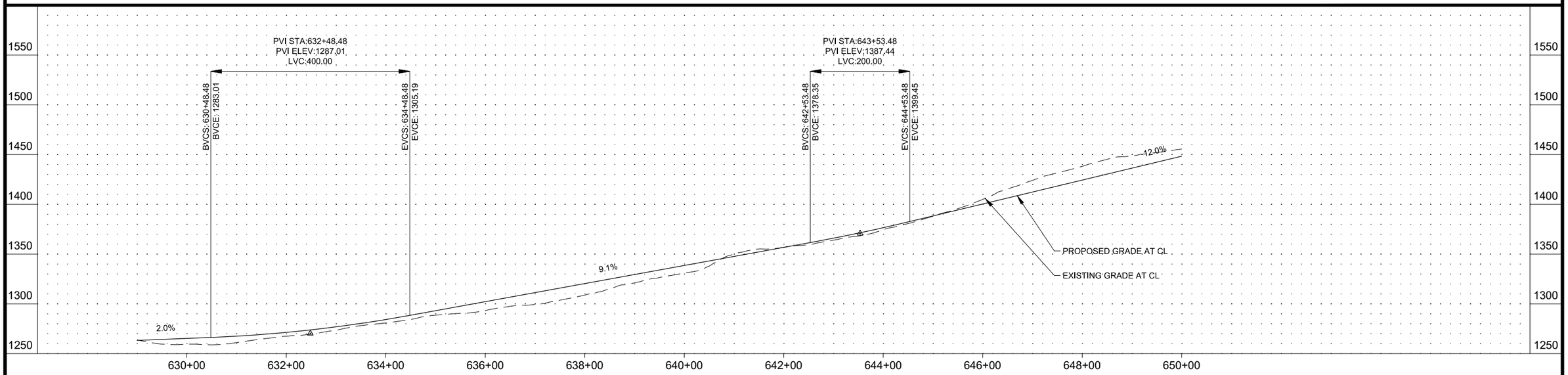

EXISTING	PROPOSED	DESCRIPTION
94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
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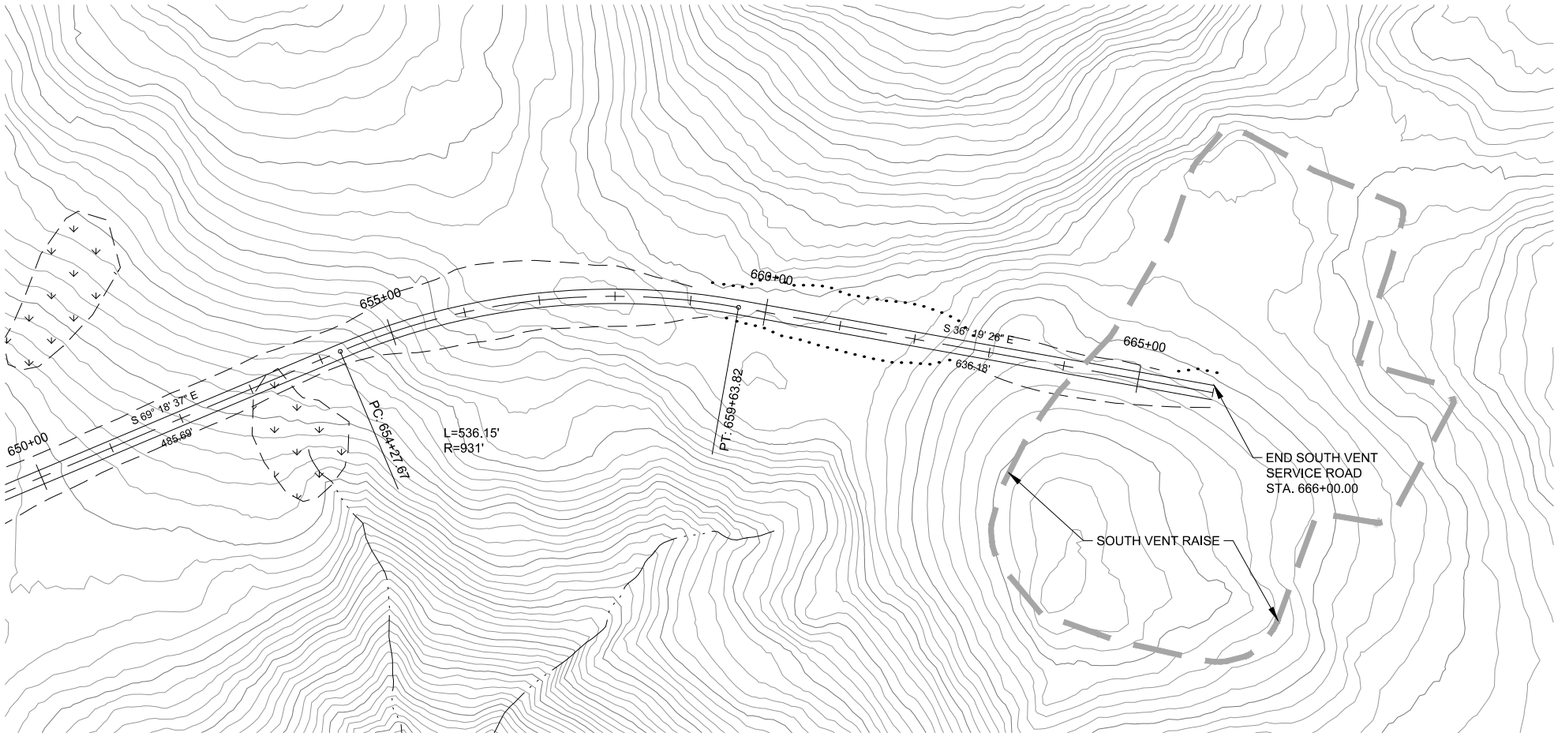
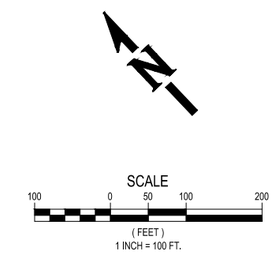
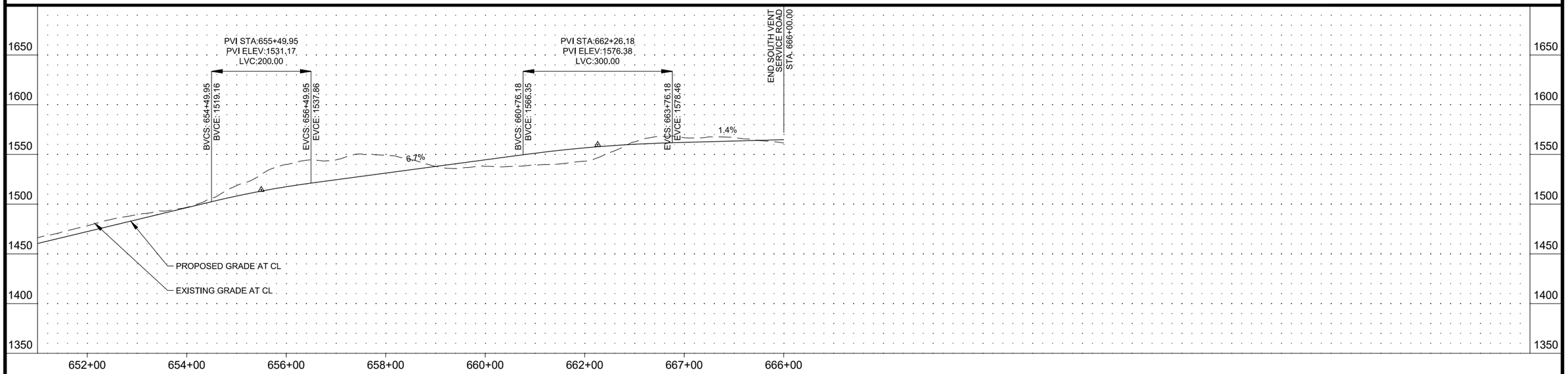
Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	28 of 37







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94		CONTOUR LINE
		EXPLORATION ACCESS ROADS
		EDGE OF GRAVEL ROAD
		EXTENT OF CUT SECTION

EXISTING	PROPOSED	DESCRIPTION
		EXTENT OF FILL SECTION
		DITCH / SWALE
		CULVERT
		CREEK

EXISTING	PROPOSED	DESCRIPTION
		BRIDGE
		WETLANDS
	P1 XX LF DIA=XX"	INSTALL CULVERT

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PROPOSED ACCESS ROAD
PLAN VIEW AND PROFILE
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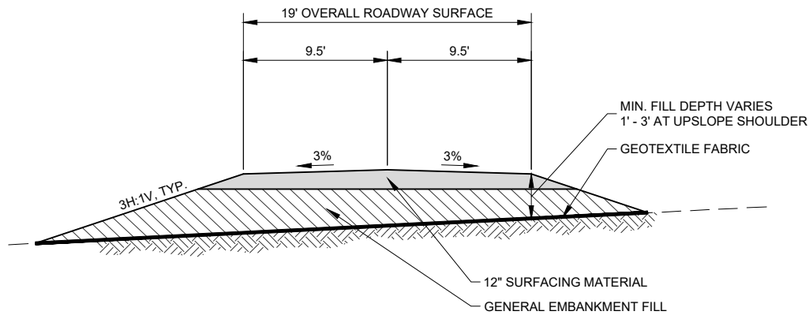
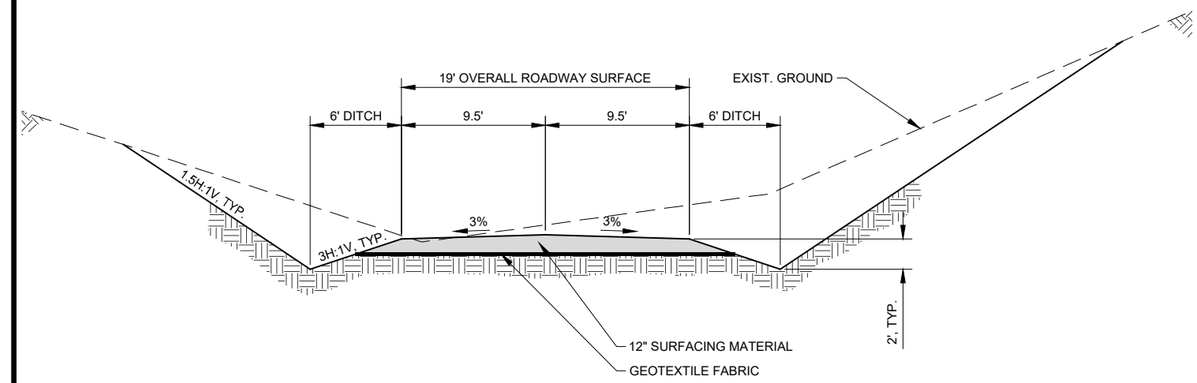
Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	POA-2018-75	Sheet:	29 of 37



TYPICAL ROAD SECTION
AT FILL SECTION

SCALE: 1" = 5'

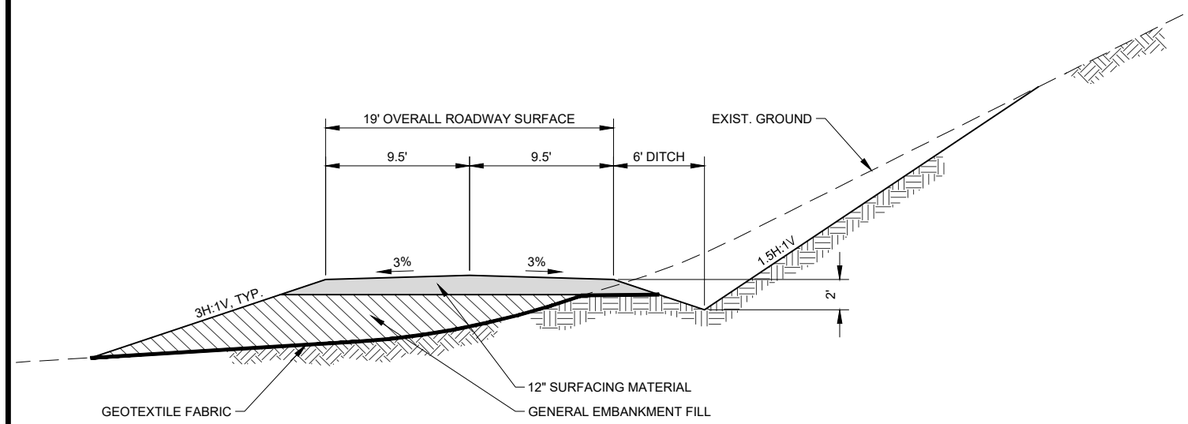
1
B1



TYPICAL ROAD SECTION
AT CUT SECTION

SCALE: 1" = 5'

2
B1



TYPICAL ROAD SECTION
AT CUT AND FILL SECTION

SCALE: 1" = 5'

3
B1

NOTES:

1. SURFACING MATERIAL TO BE 2" MINUS MATERIAL WITH 0-6% PASSING THE NO. 200 SIEVE (SIMILAR TO ADOT&PF SUBBASE, GRADING B.)
2. GENERAL EMBANKMENT FILL TO BE 12" MINUS PIT RUN MATERIAL WITH 0-10% PASSING THE NO. 200 SIEVE (SIMILAR TO ADOT&PF SELECTED MATERIAL, TYPE B.)
3. EXCAVATED MATERIAL SHOULD BE REUSED IF IT CONFORMS TO THE ABOVE MATERIAL REQUIREMENTS.
4. GEOTEXTILE FABRIC TO BE CLASS 1 SEPARATION GEOTEXTILE, AS DEFINED IN AASHTO M 288. IN CUT AREAS, WHERE CLEAN GRAVELS ARE PRESENT, THE GEOTEXTILE CAN BE OMITTED.

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PROPOSED ACCESS ROAD
TYPICAL X-SECTIONS
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File No.:	POA-2018-75	Sheet:	30 of 37

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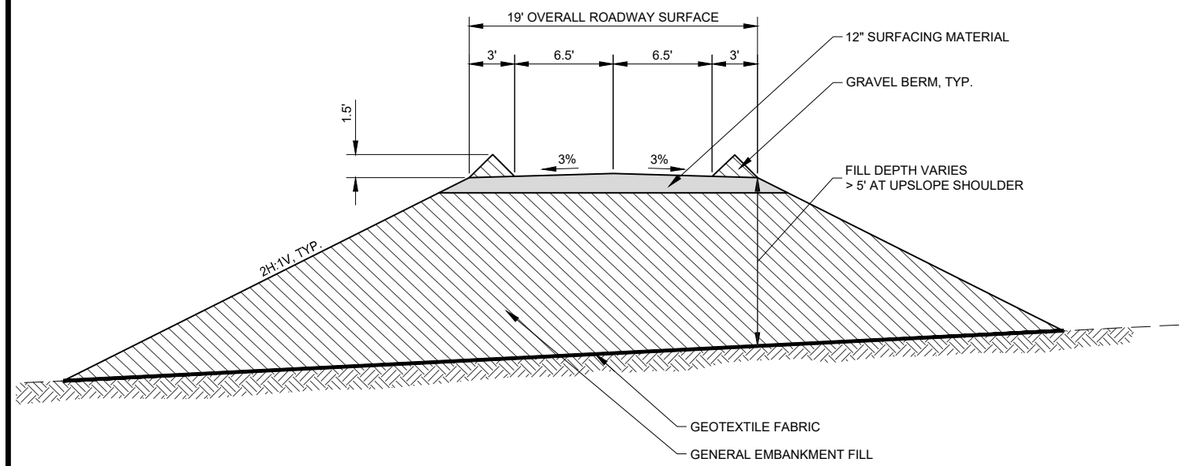
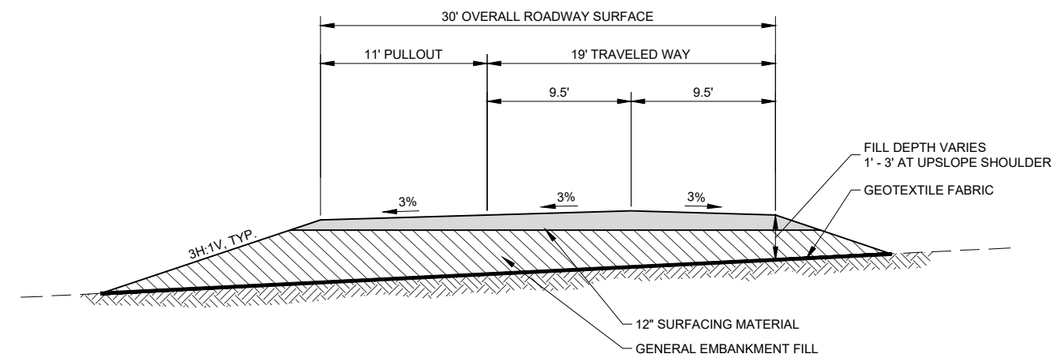


TYPICAL ROAD SECTION
AT DEEP FILL SECTION

SCALE: 1" = 5'

1
B2



TYPICAL ROAD SECTION
AT PULLOUT SECTION

SCALE: 1" = 5'

2
B2

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PROPOSED ACCESS ROAD
TYPICAL X-SECTIONS
Anarraaq & Aktigiruq Exploration Program

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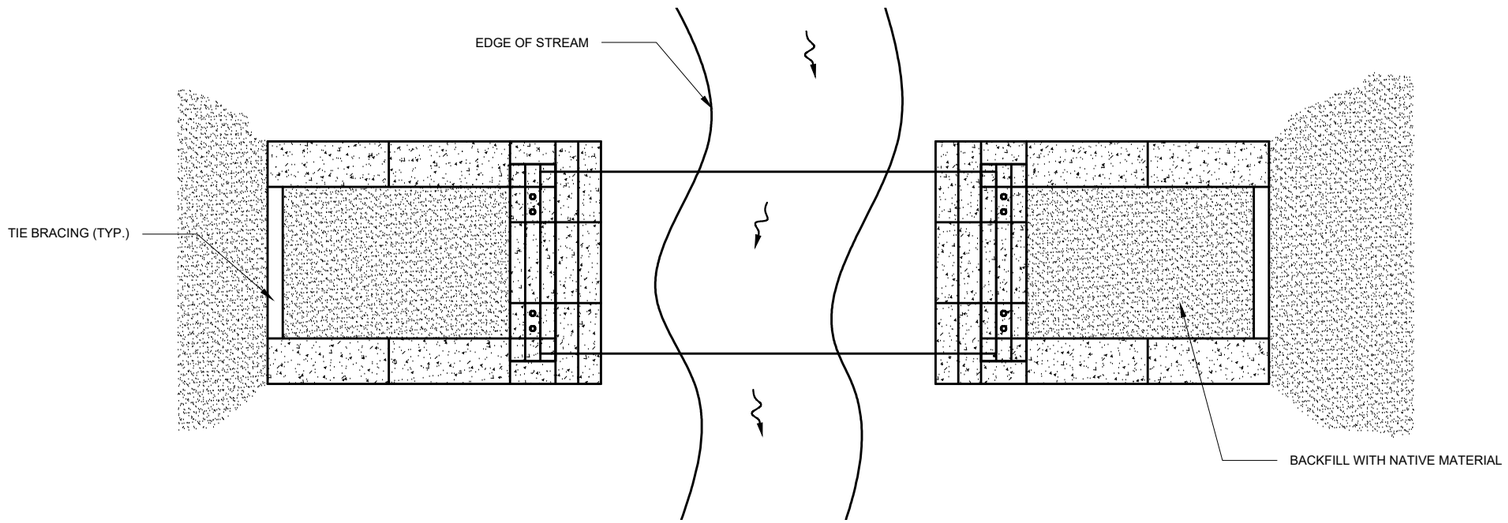
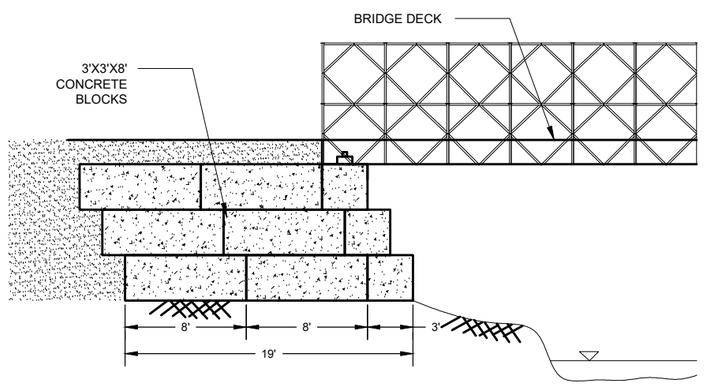
19028W-C-B1-B2_Typical Sections.dwg



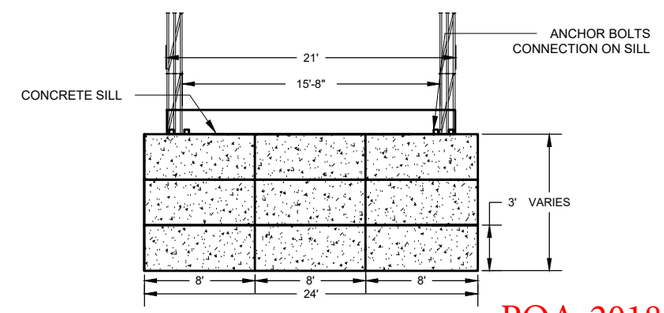
PLAN VIEW

NTS



STREAM PROFILE

NTS



CROSS SECTION

NTS

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Teck American, Inc.
Ikalukrok Creek
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No.	Revision Description	Revised By		Checked By		Approved By	
D	ISSUED FOR PERMITTING	SPM	4/6/18	JEZ	4/6/18		
C	ISSUED FOR 2017 YEAR-END RDMLE REVIEW	SPM	1/8/18	JEZ	1/8/18		
B	DRAFT PRELIMINARY DRAWINGS	XXX	11/12/17	XXX	11/12/17		
A	DRAFT PRELIMINARY DRAWINGS	XXX	10/25/17	XXX	10/25/17		

No.	Dwg. No.	Reference Drawings
9		
8		
7		
6		
5		
4		
3		
2		
1		

Applicant: Teck

PROPOSED ACCESS ROAD
TYPICAL BRIDGE DESIGN
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
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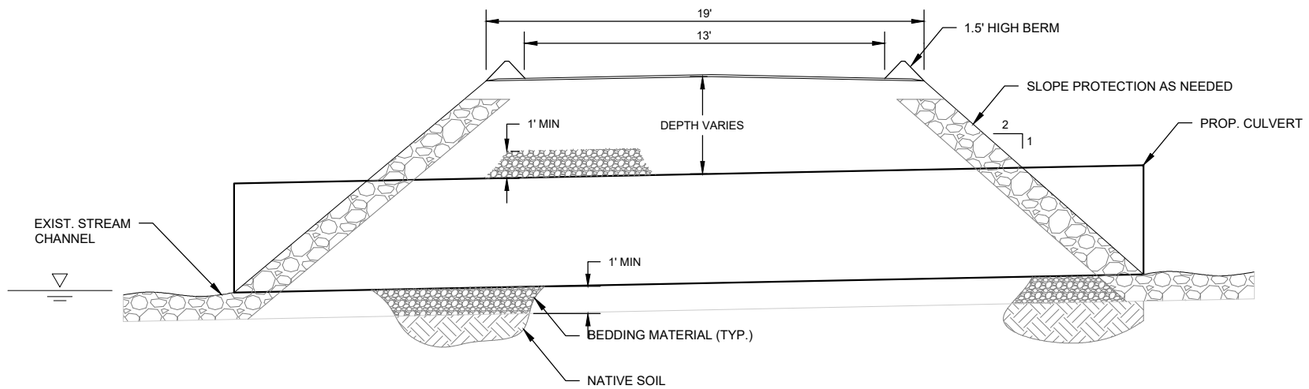
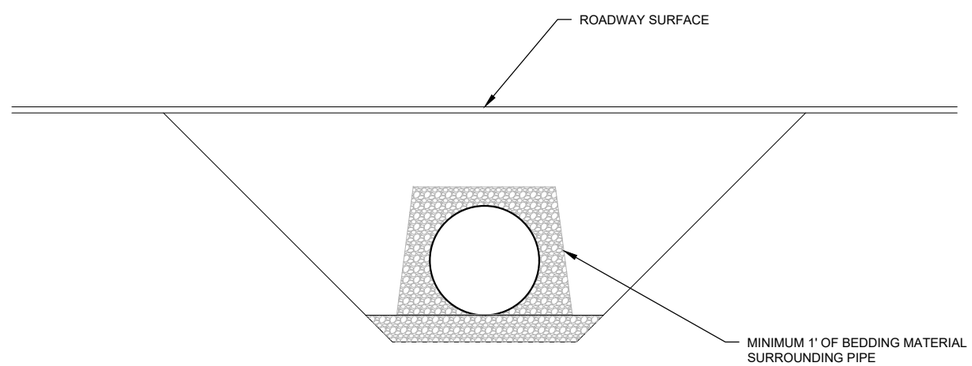
KunaConcept River Crossing Figures.dwg



STREAM PROFILE

NTS



CROSS SECTION

NTS

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Ikalukrok Creek
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No.	Revision Description	Revised By		Checked By		Approved By
D	ISSUED FOR PERMITTING	SPM	4/6/18	JEZ	4/6/18	
C	ISSUED FOR 2017 YEAR-END RDMLE REVIEW	SPM	1/8/18	JEZ	1/8/18	
B	DRAFT PRELIMINARY DRAWINGS	XXX	11/12/17	XXX	11/12/17	
A	DRAFT PRELIMINARY DRAWINGS	XXX	10/25/17	XXX	10/25/17	

No.	Dwg. No.	Reference Drawings
9		
8		
7		
6		
5		
4		
3		
2		
1		

Applicant: Teck

PROPOSED ACCESS ROAD
TYPICAL CULVERT DETAIL

Anarraaq & Aktigiruq Exploration Program

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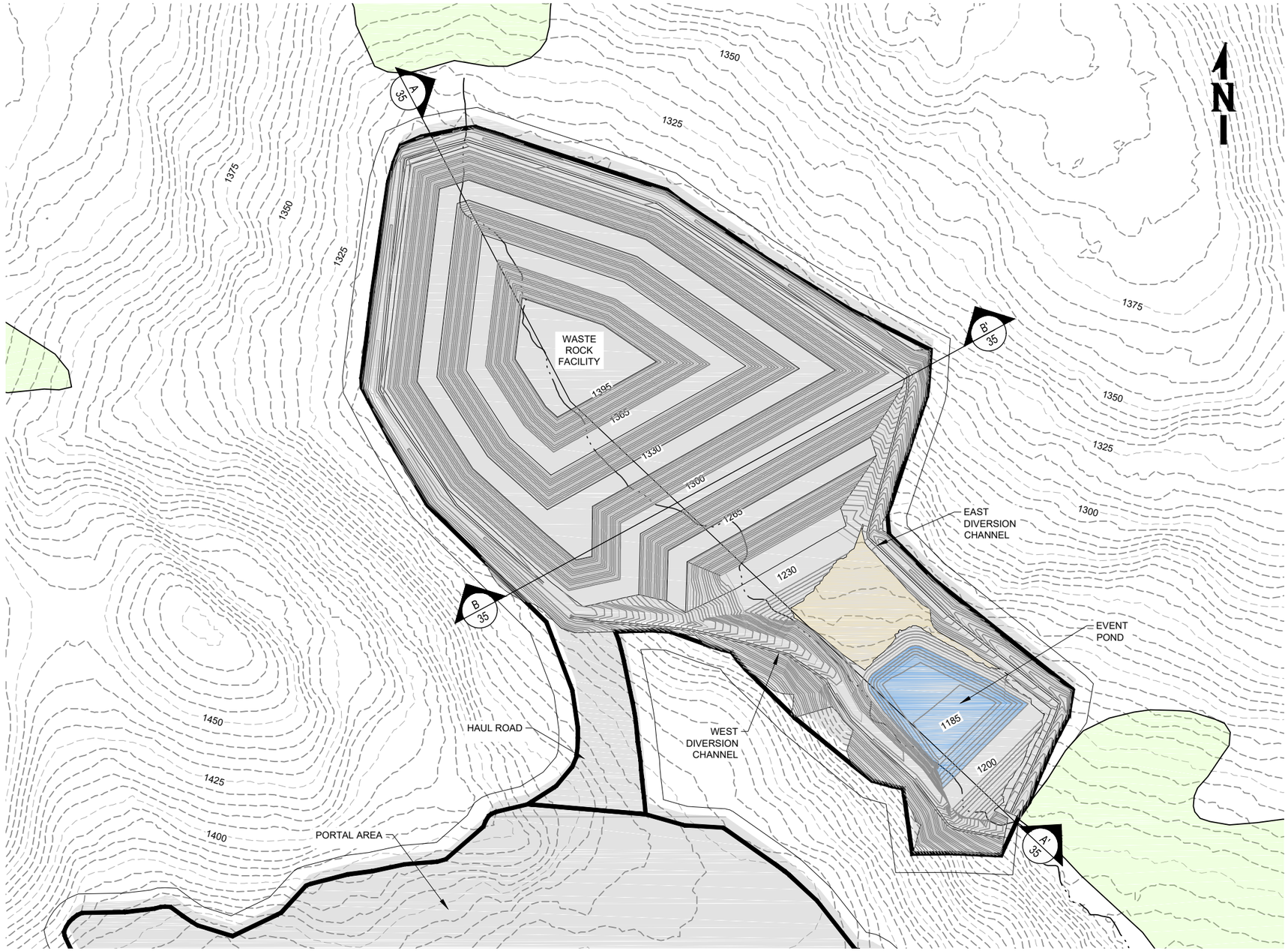

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WASTE ROCK FACILITY
PLAN VIEW
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
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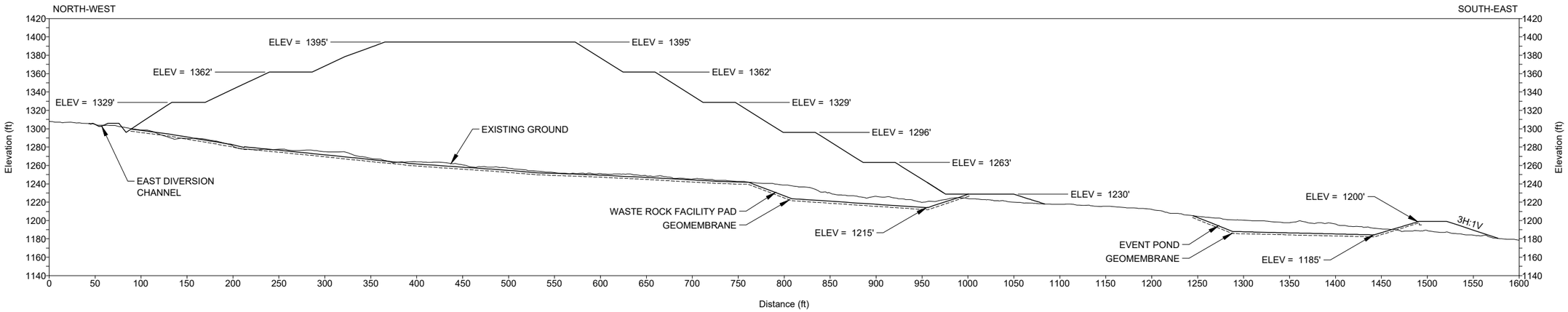
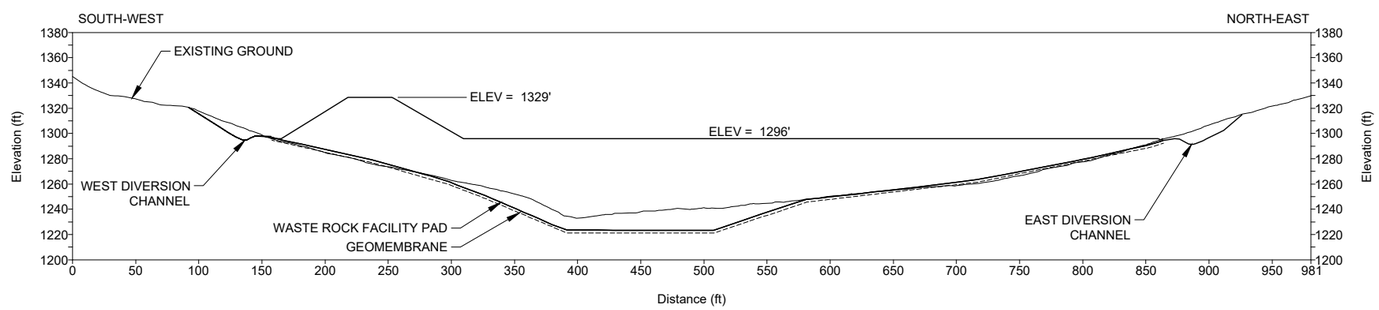
19028W-C-REF1-8_SRK Ref Drawings.dwg



Cross Section A-A'
Waste Rock Facility



Cross Section B-B'
Waste Rock Facility

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Ikalukrok Creek
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Applicant: Teck

WASTE ROCK FACILITY CROSS SECTION

Anarraaq & Aktigiruq Exploration Program

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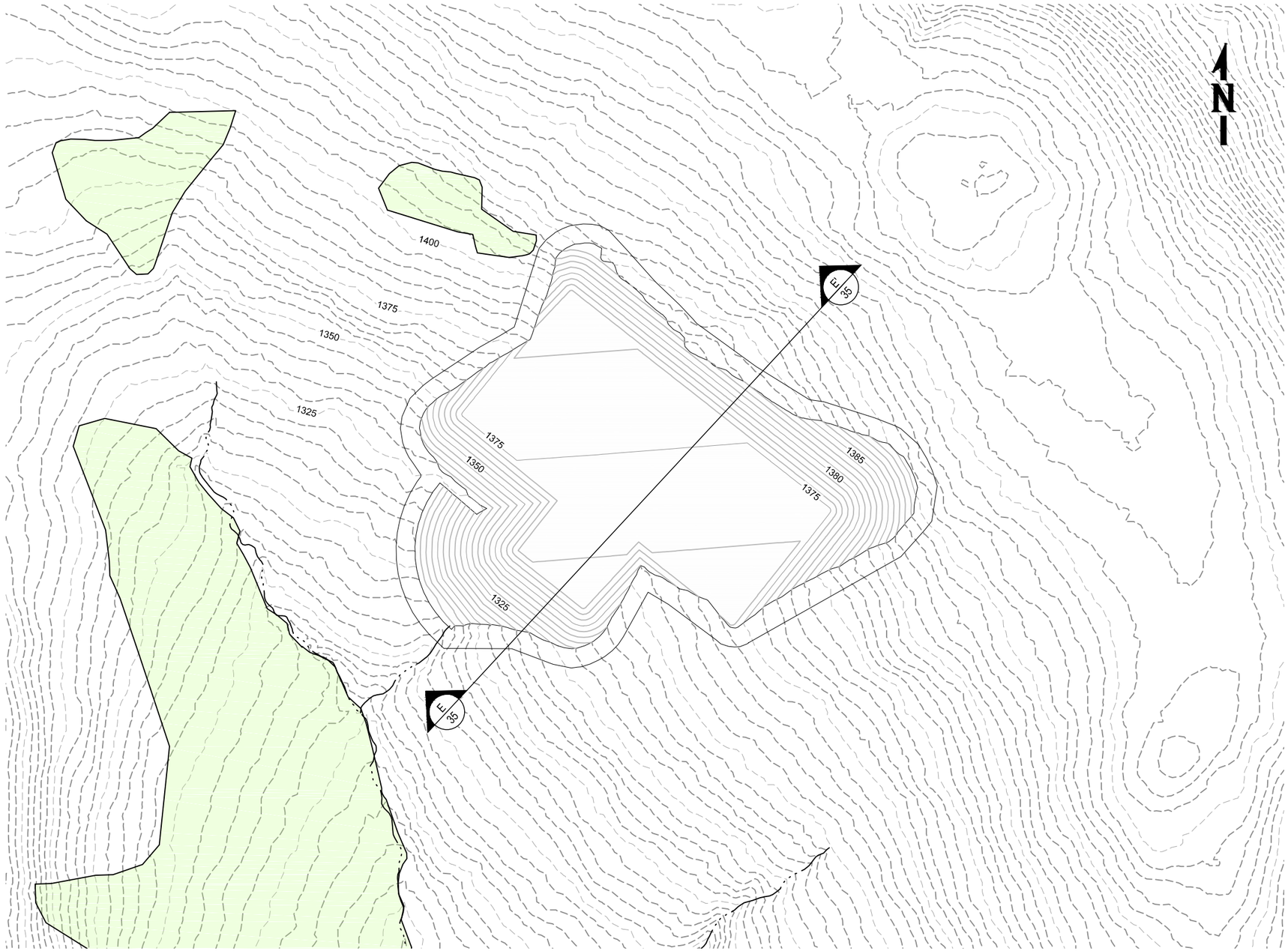
19028W-C-REF1-8_SRK Ref Drawings.dwg



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Ikalukrok Creek
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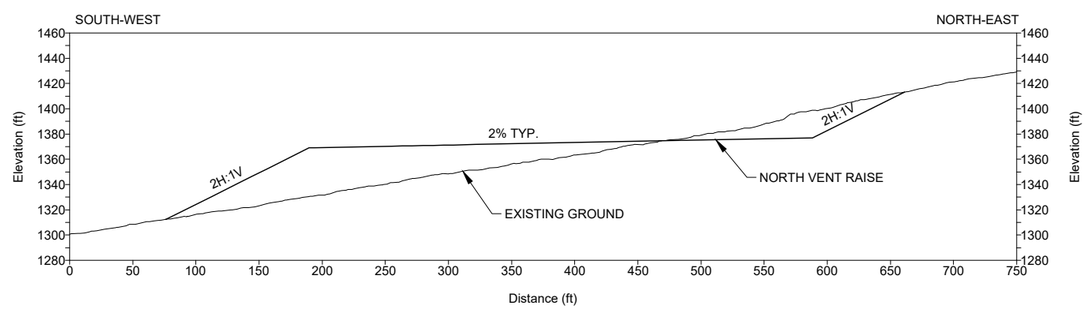
Applicant:
Teck

NORTH VENT RAISE
PLAN VIEW
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
File No.:	**POA-2018-75**	Sheet:	**36 of 37**

19028W-C-REF1-8_SRK Ref Drawings.dwg



Cross Section E-E'
Waste Rock Facility

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Applicant:
Teck

NORTH VENT RAISE
CROSS SECTION
Anarraaq & Aktigiruq Exploration Program

Waterway:	Ikalukrok Creek	Date:	4/15/2018
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19028W-C-REF1-8_SRK Ref Drawings.dwg