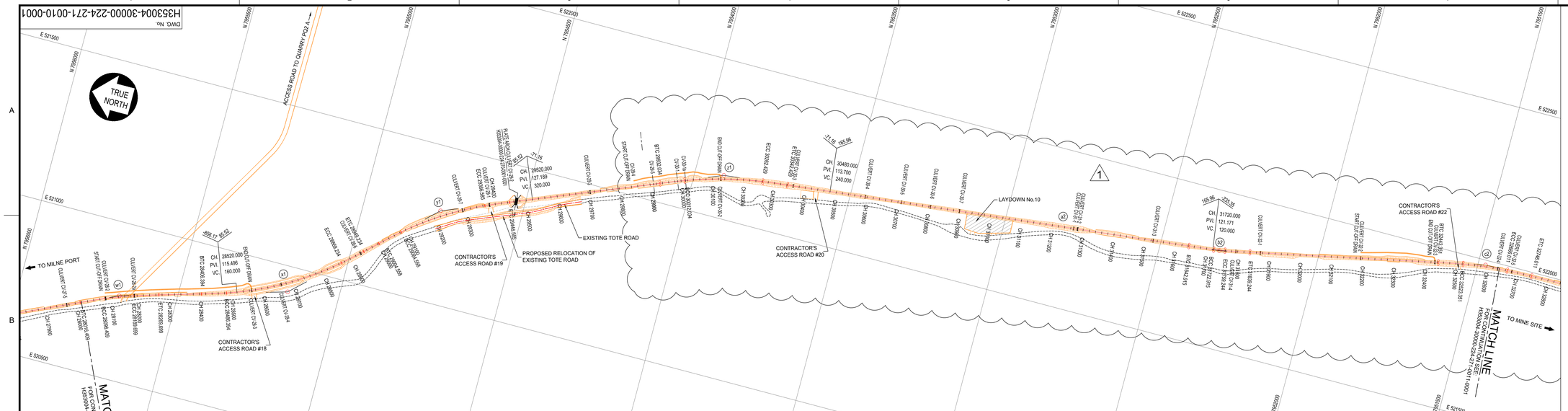
DWG. No. H353004-30000-224-271-0010-0001

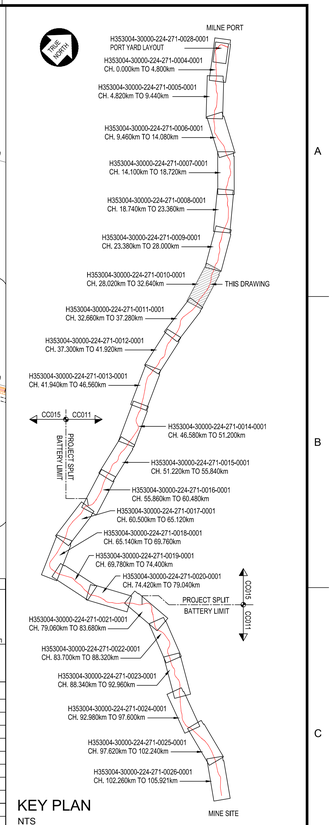


CURVE w1	CURVE x1	CURVE y1	CURVE z1	CURVE a2	CURVE b2	CURVE c2
RAD. = 1200.000m	RAD. = 1000.000m	RAD. = 1000.000m	RAD. = 1200.000m	CURVE REMOVED	RAD. = 1200.000m	RAD. = 1200.000m
SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m		SPIRAL = 80m	SPIRAL = 80m
SHIFT = 0.222m	SHIFT = 0.267m	SHIFT = 0.267m	SHIFT = 0.222m		SHIFT = 0.222m	SHIFT = 0.222m
D.A. = 8.2740°	D.A. = 26.5188°	D.A. = 20.7427°	D.A. = 15.7152°		D.A. = 5.5643°	D.A. = 10.6312°
T.L. = 112.810m	T.L. = 275.702m	T.L. = 223.064m	T.L. = 206.278m		T.L. = 98.219m	T.L. = 151.670m
ARC. = 93.290+160m	ARC. = 392.840+160m	ARC. = 282.028+160m	ARC. = 250.395+160m		ARC. = 36.329+160m	ARC. = 142.660+160m
Dc = 1.455°	Dc = 1.746°	Dc = 1.746°	Dc = 1.455°		Dc = 1.455°	Dc = 1.455°
Ea = 1.000°	Ea = 1.000°	Ea = 1.000°	Ea = 1.000°		Ea = 1.000°	Ea = 1.000°
Eu,f = 0.630°	Eu,f = 0.956°	Eu,f = 0.956°	Eu,f = 0.630°		Eu,f = 0.630°	Eu,f = 0.630°
Vf = 40mph	Vf = 40mph	Vf = 40mph	Vf = 40mph		Vf = 40mph	Vf = 40mph

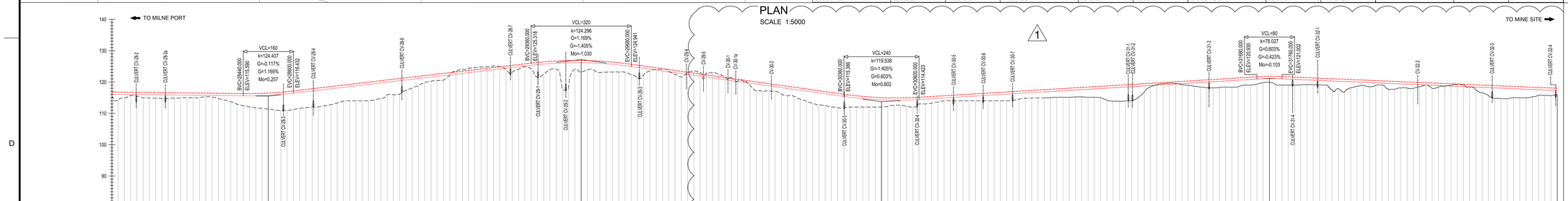
FORMATION SETTING OUT CO-ORDINATE LIST UTM (NAD83) ZONE 17

	Y	X		Y	X		Y	X		Y	X
BTC CURVE w1	520716.063	7955796.018	ETC CURVE x1	521106.110	7954960.266	ECC CURVE z1	521650.115	7953781.797	BCC CURVE c2	521969.341	7951545.772
BCC CURVE w1	520748.397	7955722.847	BTC CURVE y1	521143.643	7954919.622	ETC CURVE z1	521659.643	7953702.370	PI CURVE c2	521984.818	7951475.779
PI CURVE w1	520768.604	7955680.604	BCC CURVE y1	521197.126	7954860.135	CURVE a2 REMOVED			ECC CURVE c2	521985.339	7951404.097
ECC CURVE w1	520780.815	7955635.396	PI CURVE y1	521294.978	7954755.746	BTC CURVE b2	521800.178	7952409.500	ETC CURVE c2	521987.801	7951324.138
ETC CURVE w1	520803.989	7955558.831	ECC CURVE y1	521347.537	7954622.669	BCC CURVE b2	521809.706	7952330.073			
BTC CURVE x1	520842.132	7955427.565	ETC CURVE y1	521378.462	7954548.894	PI CURVE b2	521810.792	7952311.856			
BCC CURVE x1	520865.476	7955351.052	BTC CURVE z1	521560.136	7954098.758	ECC CURVE b2	521815.377	7952294.191			
PI CURVE x1	520919.063	7955162.813	BCC CURVE z1	521589.262	7954024.217	ETC CURVE b2	521830.807	7952215.697			
ECC CURVE x1	521052.627	7955019.753	PI CURVE z1	521637.351	7953907.441	BTC CURVE c2	521953.911	7951624.266			

PLAN
SCALE 1:5000



KEY PLAN
NTS



LONGITUDINAL SECTION

LEGEND :

= APPROVED WATER SOURCES

= MASSIVE ICE FORMATION

NOTE :

1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS) .
2. START / END DEVIATION REFER TO RAIL ALIGNMENT EXTENDING BEYOND EXISTING PERMITTING AREA BOUNDARIES.
3. CO-ORDINATE SYSTEM: UTM (NAD83) ZONE 17, NORTH, METER.
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
5. THIS DRAWING WAS PREVIOUSLY ISSUED AS: H353004-00000-224-272-0010 -0001
6. FORMATION = TOP OF SUBGRADE.
7. CURVE DATA BELOW THE LINE IS IN IMPERIAL UNITS (IU).

PERMIT TO PRACTICE
HATCH LTD.
Signature
Date 2021-08-01
PERMIT NUMBER: P 512
The Association of Professional Engineers, Geologists and Geophysicists of NWT/NU

DRAWING No.	DRAWING TITLE
H353004-30000-224-271-0011-0001	PLAN AND LONGITUDINAL SECTION - CH. 32+660 TO CH. 37+280
H353004-30000-224-271-0009-0001	PLAN AND LONGITUDINAL SECTION - CH. 23+380 TO CH. 28+000

REFERENCE DRAWINGS

APPROVED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER G.H. CHAN LICENSEE NT/NU 2021-08-01

REG. PROFESSIONAL

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No.	DESCRIPTION	BY	CHK'D	DATE
1	ALIGNMENT ALTERED (29900 TO 34000m) AND KEY PLAN UPDATED.	ajvn		2021/01/19
0	APPROVED FOR CONSTRUCTION	AJVN		2019/03/22

REVISIONS

HATCH

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	A VAN NIEKERK	NR	2017/01/24
DESIGNER	A VAN NIEKERK	NR	2017/01/07
CHECKER	C CHAN		2021/08/02
DESIGN COORD.	L NGWENYA		2021/08/30
RESP. ENG.	R HALIM		2021/08/31
LEAD DISC. ENG.	F VAN BILJON		2021/08/30
AREA LEAD	L NGWENYA		2021/08/30
ENG. MANAGER	F VAN BILJON		2021/08/30
AREA MANAGER	F PITMANN	Fay Pittmann	

DRAWING APPROVAL STATUS: Approved for Construction

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

RAIL SITE
PLAN AND LONGITUDINAL SECTION
CH. 28+020 TO CH. 32+640

SCALE 1:5,000 OR AS NOTED | DWG. No. H353004-30000-224-271-0010-0001 | REV 1

SHEET SIZE: A0

DO NOT SCALE DRAWINGS
SUBSIDIARIES
PROFILES
STIMES