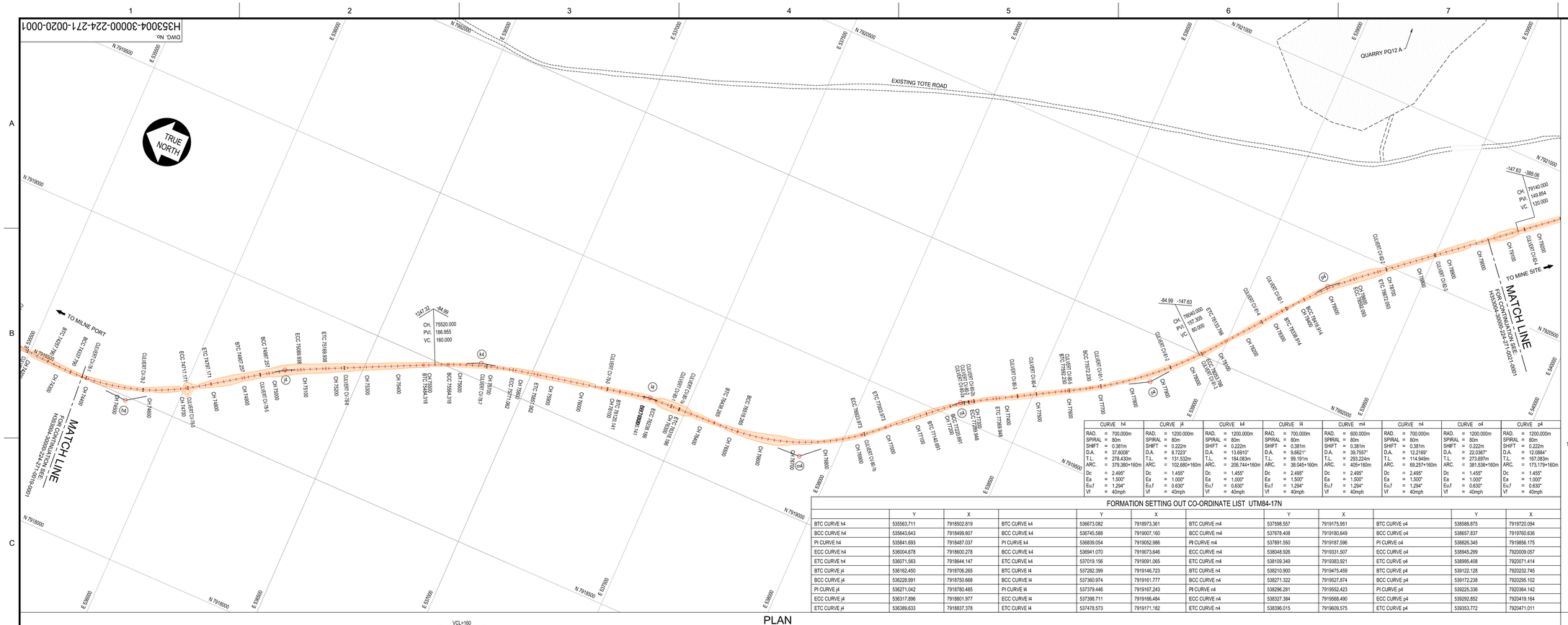
DWG. No. H353004-30000-224-271-0020-0001

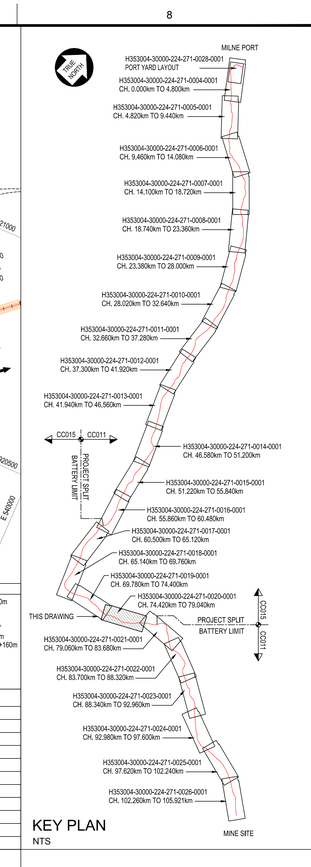


CURVE h4		CURVE j4		CURVE k4		CURVE l4		CURVE m4		CURVE n4		CURVE o4		CURVE p4	
RAD.	= 700.000m	RAD.	= 1200.000m	RAD.	= 1200.000m	RAD.	= 700.000m	RAD.	= 600.000m	RAD.	= 700.000m	RAD.	= 1200.000m	RAD.	= 1200.000m
SPIRAL	= 80m	SPIRAL	= 80m	SPIRAL	= 80m	SPIRAL	= 80m	SPIRAL	= 80m	SPIRAL	= 80m	SPIRAL	= 80m	SPIRAL	= 80m
SHIFT	= 0.381m	SHIFT	= 0.222m	SHIFT	= 0.222m	SHIFT	= 0.381m	SHIFT	= 0.381m	SHIFT	= 0.381m	SHIFT	= 0.222m	SHIFT	= 0.222m
D.A.	= 37.6008°	D.A.	= 8.7223°	D.A.	= 13.6910°	D.A.	= 9.6621°	D.A.	= 39.7557°	D.A.	= 12.2169°	D.A.	= 22.0367°	D.A.	= 12.0884°
T.L.	= 278.430m	T.L.	= 131.532m	T.L.	= 184.083m	T.L.	= 99.191m	T.L.	= 293.224m	T.L.	= 114.949m	T.L.	= 273.697m	T.L.	= 167.083m
ARC.	= 379.360+160m	ARC.	= 102.680+160m	ARC.	= 206.744+160m	ARC.	= 38.045+160m	ARC.	= 405+160m	ARC.	= 69.257+160m	ARC.	= 381.536+160m	ARC.	= 173.179+160m
Dc	= 2.495°	Dc	= 1.455°	Dc	= 1.455°	Dc	= 2.495°	Dc	= 2.495°	Dc	= 2.495°	Dc	= 1.455°	Dc	= 1.455°
Ea	= 1.500"	Ea	= 1.000"	Ea	= 1.000"	Ea	= 1.500"	Ea	= 1.500"	Ea	= 1.500"	Ea	= 1.000"	Ea	= 1.000"
Eu,f	= 1.294"	Eu,f	= 0.630"	Eu,f	= 0.630"	Eu,f	= 1.294"	Eu,f	= 1.294"	Eu,f	= 1.294"	Eu,f	= 0.630"	Eu,f	= 0.630"
Vf	= 40mph	Vf	= 40mph	Vf	= 40mph	Vf	= 40mph	Vf	= 40mph	Vf	= 40mph	Vf	= 40mph	Vf	= 40mph

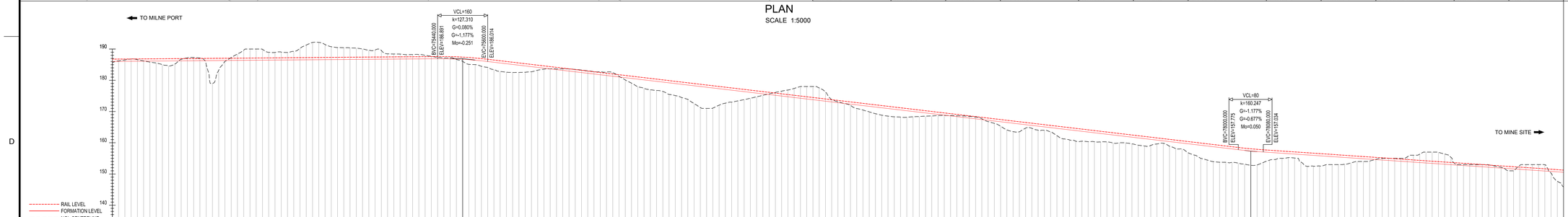
FORMATION SETTING OUT CO-ORDINATE LIST UTM84-17N

	Y	X		Y	X		Y	X		Y	X		Y	X
BTC CURVE h4	535563.711	7918502.819	BTC CURVE k4	536673.082	7918973.361	BTC CURVE m4	537598.557	7919175.951	BTC CURVE o4	538588.875	7919720.094
BCC CURVE h4	535643.643	7918499.807	BCC CURVE k4	536745.588	7919007.160	BCC CURVE m4	537678.408	7919180.649	BCC CURVE o4	538657.837	7919760.636
PI CURVE h4	535841.693	7918487.037	PI CURVE k4	536839.054	7919052.986	PI CURVE m4	537891.550	7919187.596	PI CURVE o4	538826.345	7919856.175
ECC CURVE h4	536004.678	7918600.278	BCC CURVE k4	536941.070	7919073.646	ECC CURVE m4	538048.926	7919331.507	ECC CURVE o4	538945.299	7920009.057
ETC CURVE h4	536071.563	7918644.147	ETC CURVE k4	537019.156	7919091.065	ETC CURVE m4	538109.349	7919383.921	ETC CURVE o4	538995.408	7920071.414
BTC CURVE j4	536162.450	7918706.265	BTC CURVE l4	537282.399	7919146.723	BTC CURVE n4	538210.900	7919475.459	BTC CURVE p4	539122.128	7920232.745
BCC CURVE j4	536228.991	7918750.668	BCC CURVE l4	537360.974	7919161.777	BCC CURVE n4	538271.322	7919527.874	BCC CURVE p4	539172.238	7920295.102
PI CURVE j4	536271.042	7918780.485	PI CURVE l4	537379.446	7919167.243	PI CURVE n4	538296.281	7919552.423	PI CURVE p4	539225.336	7920364.142
ECC CURVE j4	536317.896	7918801.977	ECC CURVE l4	537398.711	7919166.484	ECC CURVE n4	538327.384	7919568.490	ECC CURVE p4	539292.852	7920419.164
ETC CURVE j4	536389.633	7918837.378	ETC CURVE l4	537478.573	7919171.182	ETC CURVE n4	538396.015	7919609.575	ETC CURVE p4	539353.772	7920471.011

PLAN
SCALE 1:5000



KEY PLAN
NTS



LONGITUDINAL SECTION

LEGEND :

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: WGS 1984 UTM, ZONE 17 NORTH, METER
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
5. THIS DRAWING WAS PREVIOUSLY ISSUED AS: H353004-00000-224-272-0020 -0001
6. FORMATION = TOP OF SUBGRADE.
7. CURVE DATA BELOW THE LINE IS IN IMPERIAL UNITS (IU).

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

DRAWING No.	DRAWING TITLE
H353004-30000-224-271-0021-0001	LINE PLAN AND LONGITUDINAL SECTION - CH. 79+060 TO CH. 83+680
H353004-30000-224-271-0019-0001	LINE PLAN AND LONGITUDINAL SECTION - CH. 69+780 TO CH. 74+400

REFERENCE DRAWINGS

REG. PROFESSIONAL

APPROVED FOR CONSTRUCTION

THIS DRAWING WAS PREPARED BY HATCH LTD. ("HATCH") FOR THE EXCLUSIVE USE OF BAFFINLAND IRON MINES LP ("CLIENT") AND ITS USE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN HATCH AND THE THE CLIENT. THE DRAWING AND ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY ATTACHMENTS, REMAIN THE INTELLECTUAL PROPERTY OF HATCH SUBJECT TO CLIENT'S ROYALTY-FREE, IRREVOCABLE, PERPETUAL AND NON-EXCLUSIVE LICENSE TO USE AND REPRODUCE THE DRAWING FOR PURPOSES CONNECTED WITH THE PROJECT, INCLUDING THE CONSTRUCTION, COMPLETION, MAINTENANCE, EXTENSION, REINSTATEMENT AND REPAIR OF THE PROJECT. THIS DRAWING, AND THE INFORMATION CONTAINED HEREIN, SHALL BE TREATED AS CONFIDENTIAL FOR ALL OTHER PURPOSES AND SHALL NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF HATCH.

No.	DESCRIPTION	BY	CHK'D	DATE
1	ALIGNMENT ALTERED.	AJVN		2021/01/15
0	APPROVED FOR CONSTRUCTION.	AJVN		2019/03/26

REVISIONS

HATCH

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	A VAN NIEKERK	NR	2017/01/24
DESIGNER	A VAN NIEKERK	NR	2017/01/07
CHECKER	G JOHNSTONE		.
DESIGN COORD.	G JOHNSTONE		.
RESP. ENG.	R HALIM		.
LEAD DISC. ENG.	F VAN BILJON		.
AREA LEAD	F VAN BILJON		.
ENG. MANAGER	F VAN BILJON		.
AREA MANAGER	F PITTMAN		.

DRAWING APPROVAL STATUS: Approved for Construction

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

RAIL SITE
PLAN AND LONGITUDINAL SECTION
CH. 74+420 TO CH. 79+040

SCALE 1:5,000 OR AS NOTED | DWG. No. H353004-30000-224-271-0020-0001 | REV. 1

SHEET SIZE: A0

$USERNAME
$DATE
$TIME
$FILES