DWG. No. H353004-30000-224-271-0009-0001

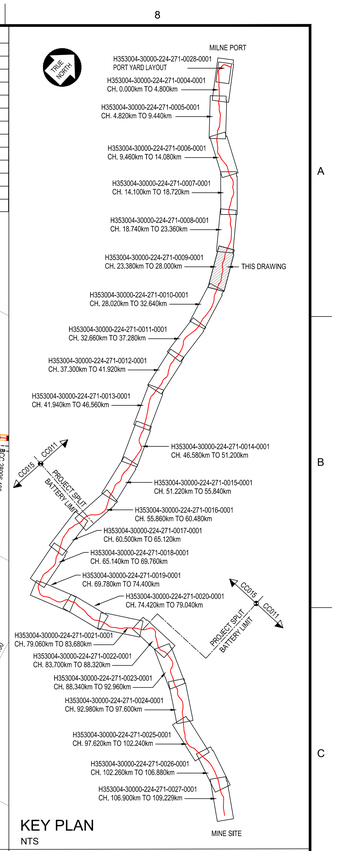
CURVE t1	CURVE m1	CURVE n1	CURVE o1	CURVE p1	CURVE q1
RAD. = 1200.000m	RAD. = 300.000m	RAD. = 1200.000m	RAD. = 1194.500m	RAD. = 1000.000m	RAD. = 1005.500m
SPIRAL = 80m	SPIRAL = 0m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m
SHIFT = 0.222m	SHIFT = 0m	SHIFT = 0.222m	SHIFT = 0.223m	SHIFT = 0.267m	SHIFT = 0.533m
D.A. = 14.9233°	D.A. = 4.7636°	D.A. = 14.8759°	D.A. = 14.8759°	D.A. = 34.4942°	D.A. = 34.4942°
T.L. = 197.194m	T.L. = 12.478m	T.L. = 196.688m	T.L. = 195.970m	T.L. = 350.534m	T.L. = 352.241m
ARC. = 232.554+160m	ARC. = 24.942m	ARC. = 231.560+160m	ARC. = 230.132+160m	ARC. = 522.038+160m	ARC. = 525.349+160m
Dc = 1.455°	Dc = 5.824°	Dc = 1.455°	Dc = 1.462°	Dc = 1.740°	Dc = 1.737°
Ea = 1.000°	Ea = 0.000°	Ea = 1.000°	Ea = 1.100°	Ea = 1.000°	Ea = 1.000°
Eu,f = 0.630°	Eu,f = 0.917°	Eu,f = 0.630°	Eu,f = 0.637°	Eu,f = 0.956°	Eu,f = 0.945°
Vf = 40mph	Vf = 15mph	Vf = 40mph	Vf = 40mph	Vf = 40mph	Vf = 40mph

CURVE r1	CURVE s1	CURVE t1	CURVE u1	CURVE v1
RAD. = 300.000m	RAD. = 700.000m	RAD. = 700.000m	RAD. = 700.000m	RAD. = 700.000m
SPIRAL = 0m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m
SHIFT = 0m	SHIFT = 0.381m	SHIFT = 0.381m	SHIFT = 0.381m	SHIFT = 0.381m
D.A. = 4.7384°	D.A. = 30.7420°	D.A. = 12.8125°	D.A. = 21.6541°	D.A. = 20.1561°
T.L. = 135.718m	T.L. = 232.531m	T.L. = 118.633m	T.L. = 135.718m	T.L. = 164.475m
ARC. = 24.810m	ARC. = 295.584+160m	ARC. = 76.534+160m	ARC. = 292.432+160m	ARC. = 166.253+160m
Dc = 5.824°	Dc = 2.495°	Dc = 2.495°	Dc = 2.495°	Dc = 2.495°
Ea = 0.000°	Ea = 1.500°	Ea = 1.500°	Ea = 1.500°	Ea = 1.500°
Eu,f = 0.917°	Eu,f = 1.294°	Eu,f = 1.294°	Eu,f = 1.294°	Eu,f = 1.294°
Vf = 15mph	Vf = 40mph	Vf = 40mph	Vf = 40mph	Vf = 40mph

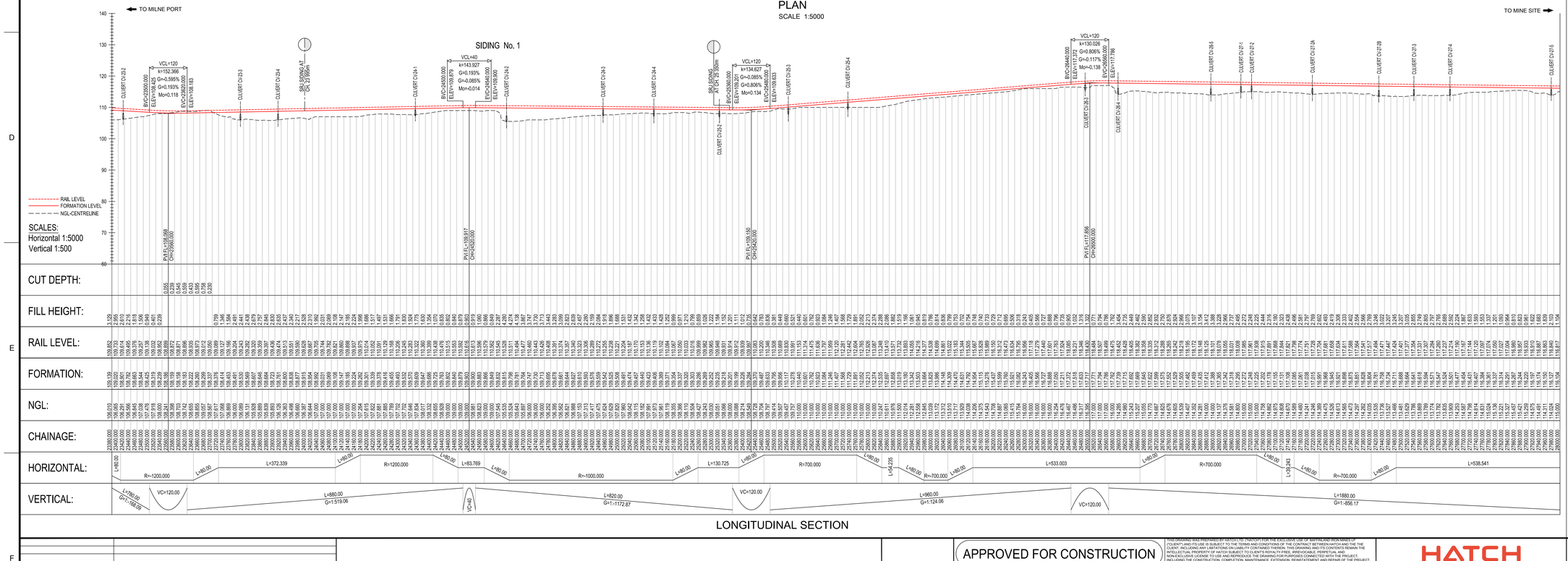
FORMATION SETTING OUT CO-ORDINATE LIST UTM84-17N

	Y	X		Y	X		Y	X		Y	X		Y	X
BCC CURVE l1	518490.801	7959830.269	BTC CURVE n1	518863.521	7959165.910	PI CURVE p1	519168.477	7958401.884	ETO No.12 LH 15	519499.466	7958147.834	ETC CURVE t1	519956.063	7957496.364
BCC CURVE l1	518516.619	7959754.554	BCC CURVE n1	518863.521	7959165.910	ECC CURVE p1	519384.433	7958238.913	PI No.12 LH 15	519517.371	7958136.427	BTC CURVE u1	520260.291	7957058.714
PI CURVE l1	518552.367	7959642.932	PI CURVE n1	518970.979	7959001.170	ETC CURVE p1	519447.444	7958189.631	SRU No.12 LH 15	519527.331	7958128.849	BCC CURVE u1	520304.688	7956992.177
ECC CURVE l1	518617.143	7959545.252	ECC CURVE n1	519006.660	7958890.058	BTC CURVE q1	519053.538	7958733.083	BTC CURVE s1	519551.479	7958110.475	PI CURVE u1	520392.048	7956869.173
ETC CURVE l1	518660.100	7959477.769	ETC CURVE n1	519032.542	7958814.365	BCC CURVE q1	519079.581	7958657.447	BCC CURVE s1	519614.203	7958060.838	ECC CURVE u1	520401.895	7956718.625
SRU No.12RH 14	518810.531	7959247.148	BTC CURVE o1	518858.915	7959162.905	PI CURVE q1	519163.788	7958238.541	PI CURVE s1	519736.536	7957959.675	ETC CURVE u1	520409.439	7956638.993
PI No.12RH 14	518917.368	7959236.666	BCC CURVE o1	518901.868	7959095.420	ECC CURVE q1	519381.099	7958234.532	ECC CURVE s1	519792.253	7957827.648	BTC CURVE v1	520412.395	7956599.862
ES No.12RH 14	518828.927	7959218.946	PI CURVE o1	518965.980	7958998.767	ETC CURVE q1	519444.113	7958185.254	ETC CURVE s1	519823.614	7957754.064	BCC CURVE v1	520419.940	7956520.230
ETO No.12RH 14	518827.450	7959217.982	ETC CURVE o1	519001.433	7958888.335	BCC CURVE r1	519451.357	7958179.743	BTC CURVE t1	519843.924	7957703.775	PI CURVE v1	520424.787	7956435.854
BCC CURVE m1	518842.893	7959189.364	ETC CURVE o1	519027.318	7958812.643	PI CURVE r1	519461.235	7958172.227	BCC CURVE t1	519875.285	7957630.191	ECC CURVE v1	520461.184	7956359.578
PI CURVE m1	518848.819	7959178.382	BTC CURVE p1	519058.761	7958734.805	ECC CURVE r1	519471.700	7958165.553	PI CURVE t1	519888.350	7957593.774	ETC CURVE v1	520492.933	7956286.160
ECC CURVE m1	518855.637	7959167.931	BCC CURVE p1	519084.810	7958659.170	ES No.12 LH 15	519500.534	7958149.238	ECC CURVE t1	519911.667	7957562.900			

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: WGS 1984 UTM, ZONE 17 NORTH, METER
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
5. THIS DRAWING WAS PREVIOUSLY ISSUED AS: H353004-00000-224-272-0019-0001
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
H353004-30000-224-271-0010-0001	PLAN AND LONGITUDINAL SECTION - CH. 28+020 TO CH. 32+640
H353004-30000-224-271-0008-0001	PLAN AND LONGITUDINAL SECTION - CH. 18+740 TO CH. 23+360

REFERENCE DRAWINGS

REG. PROFESSIONAL

APPROVED FOR CONSTRUCTION

THE DRAWING WAS PREPARED SUBJECT TO THE TERMS AND CONDITIONS EXCLUSIVE OF LIABILITY DETERMINED UNDER THE CONTRACT BETWEEN HATCH LTD. ("HATCH") AND THE CLIENT, INCLUDING ANY LIMITATIONS ON LIABILITY CONTAINED THEREIN. THIS DRAWING AND ITS CONTENTS 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	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	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. 23+380 TO CH.28+000

SCALE 1:5,000 OR AS NOTED | DWG. No. H353004-30000-224-271-0009-0001 | REV 1

SHEET SIZE: A0

$USERNAME $TIMES
$LISTENAME
$FILES