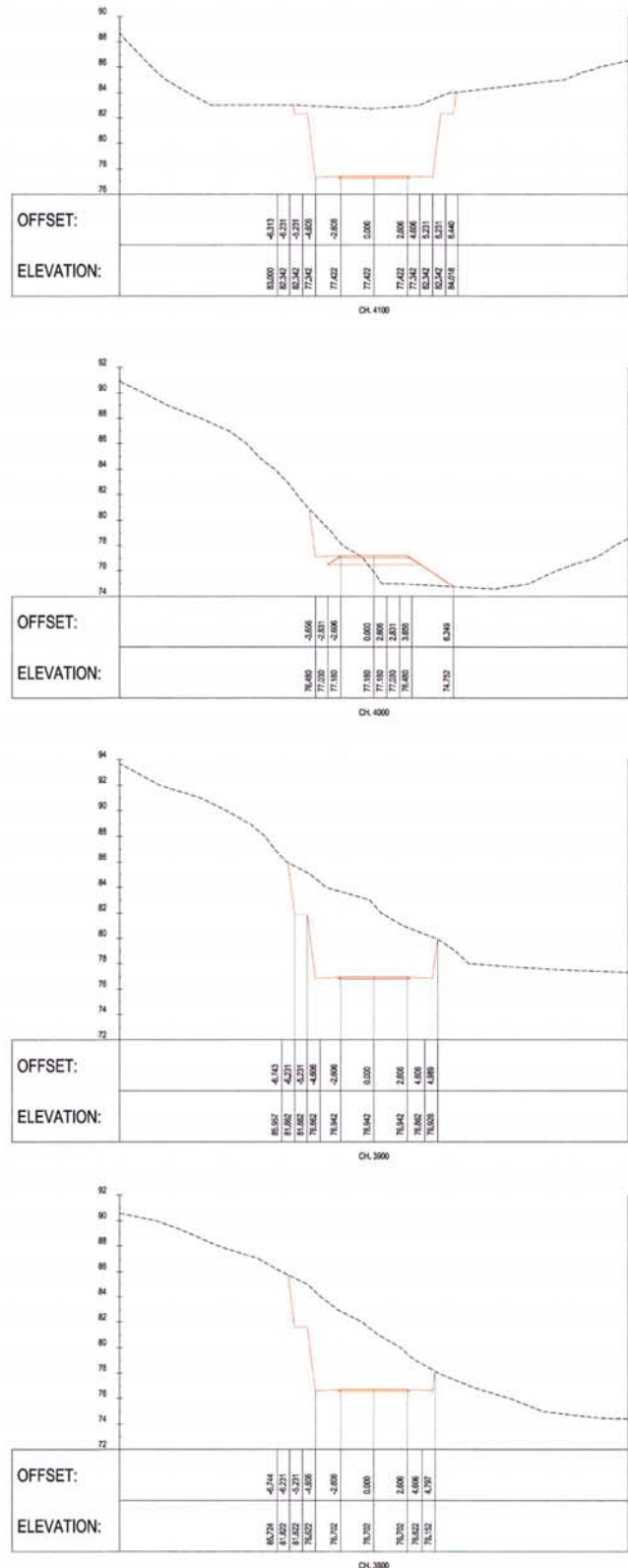
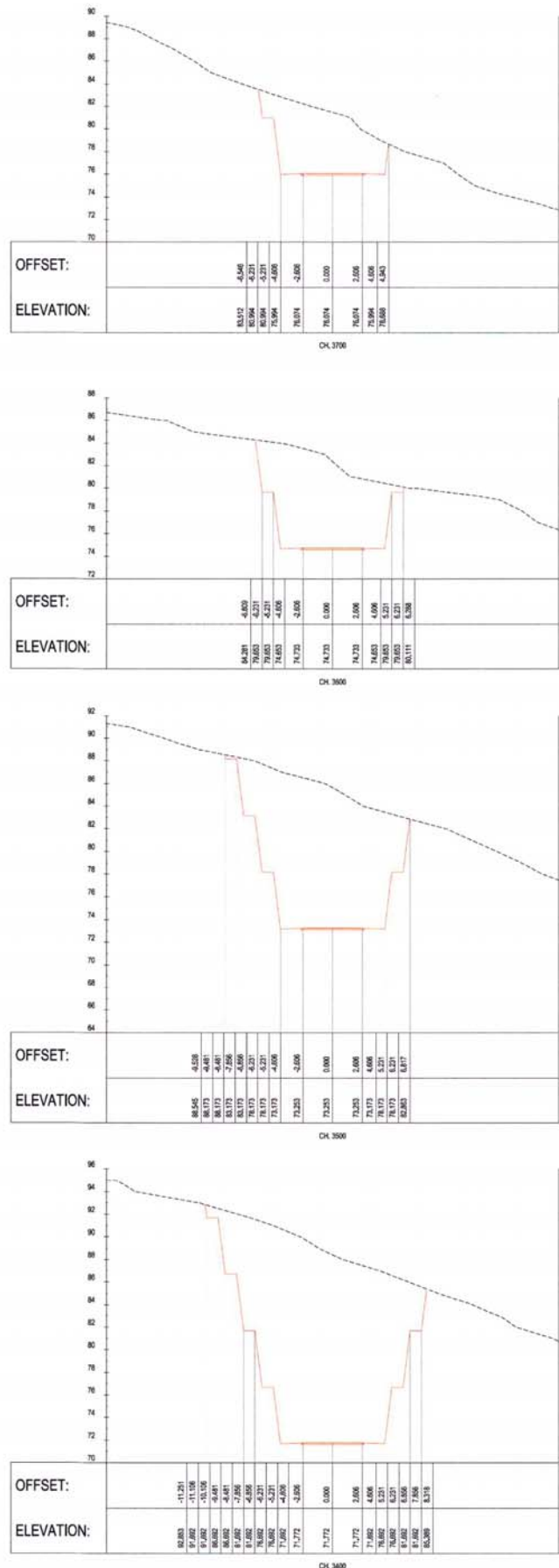
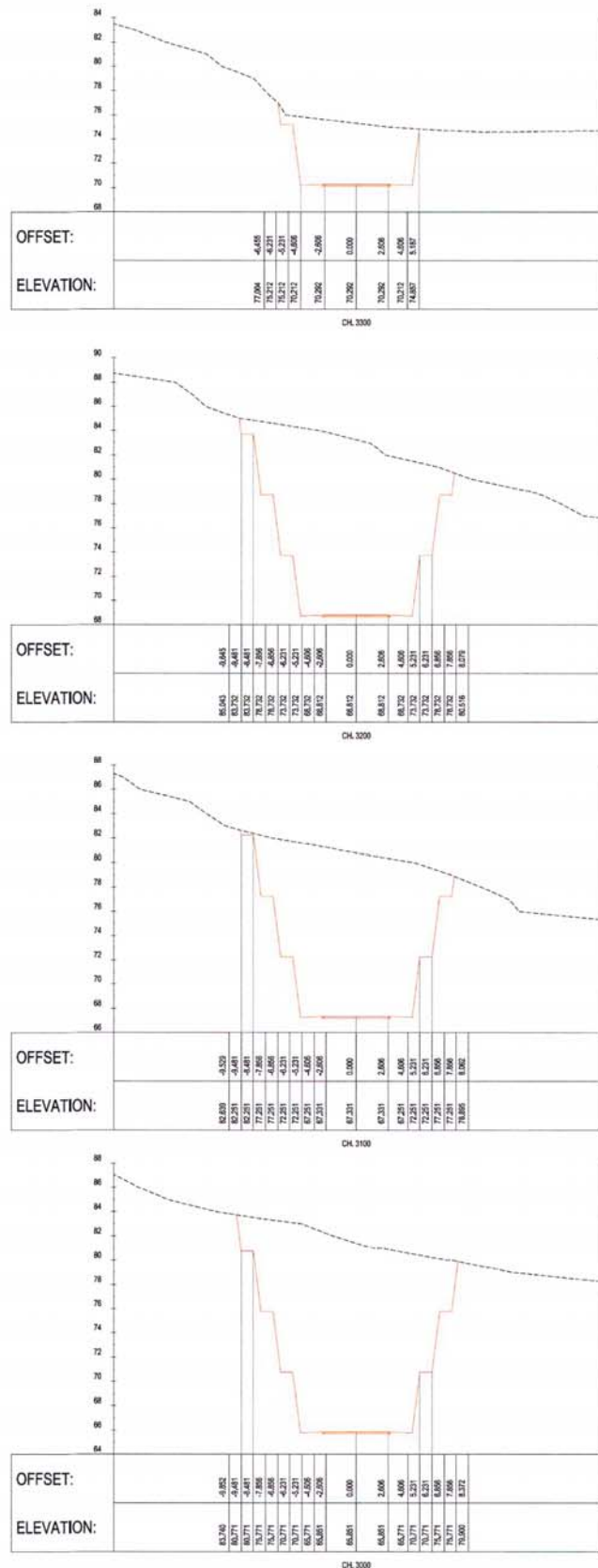
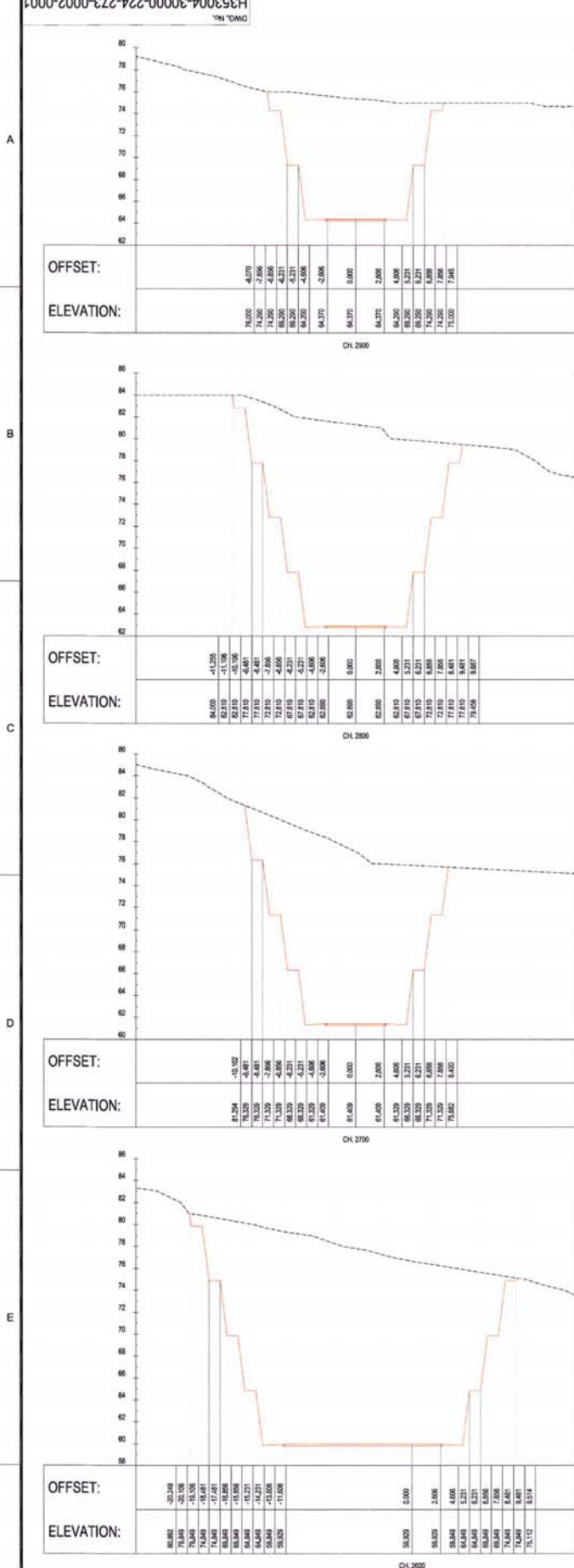


Attachment 11.4

North Railway Cross-Sections

(27 Pages)



NOTE:

1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS).

2. THIS DRAWING SUPERSEDES PREVIOUS DRAWING H353004-00000-224-273-0000-0001.

H353004-30000-224-294-0003 to 0006	TYPICAL CROSS SECTIONS
H353004-30000-224-294-0005 to 0044	FORMATION SECTIONS - CH 75+000 TO 109+229
H353004-30000-224-273-0001 to 0018	FORMATION SECTIONS - CH 0+000 TO 74+800
H353004-30000-224-271-0004 to 0027	PLAN AND LONGITUDINAL SECTIONS - CH 0+000 TO 109+229
DRAWING No.	DRAWING TITLE
1	REFERENCE DRAWINGS

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APPROVED FOR CONSTRUCTION

REG. PROFESSIONAL

DESIGNER	A VAN NIEKERK	NR	2018/11/11
CHECKER	G JOHNSTONE	NR	2018/11/07
DESIGN COORD.	G JOHNSTONE		
RESP. ENG.	R HALL		
LEAD DISC. ENG.	F VAN BILJON		
AREA LEAD	F VAN BILJON		
ENG. MANAGER	F PRTMAN		
AREA MANAGER	F PRTMAN		
NAME		SIGNATURE	DATE
DRAWING APPROVAL STATUS:	Approved for Construction		

DATE	2019/03/08
BY	CHKD
DATE	
REVISIONS	

HATCH

Baffinland

BAFFINLAND IRON MINES
MARY RIVER PROJECT

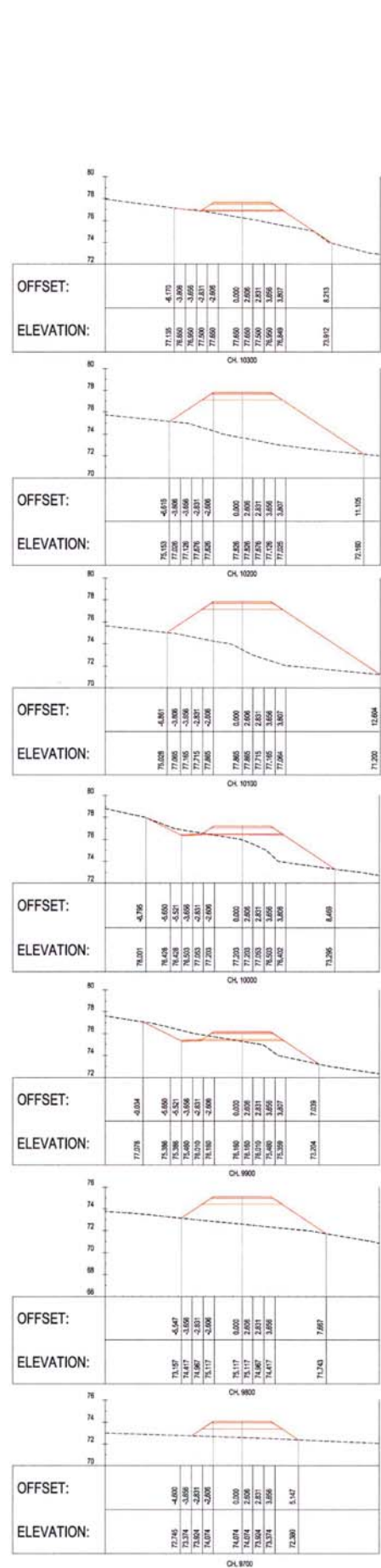
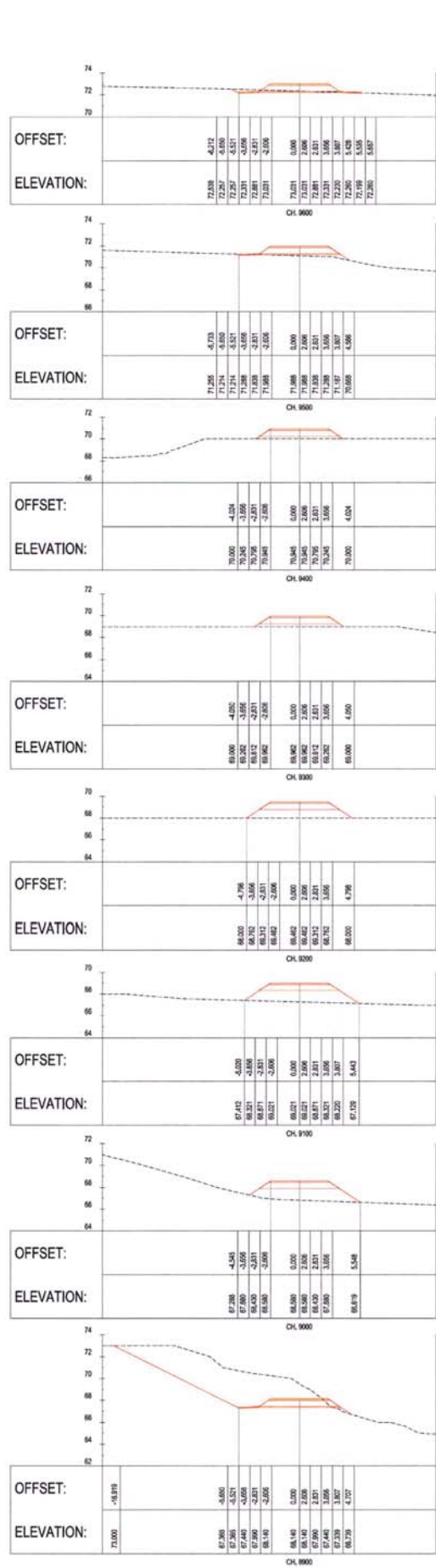
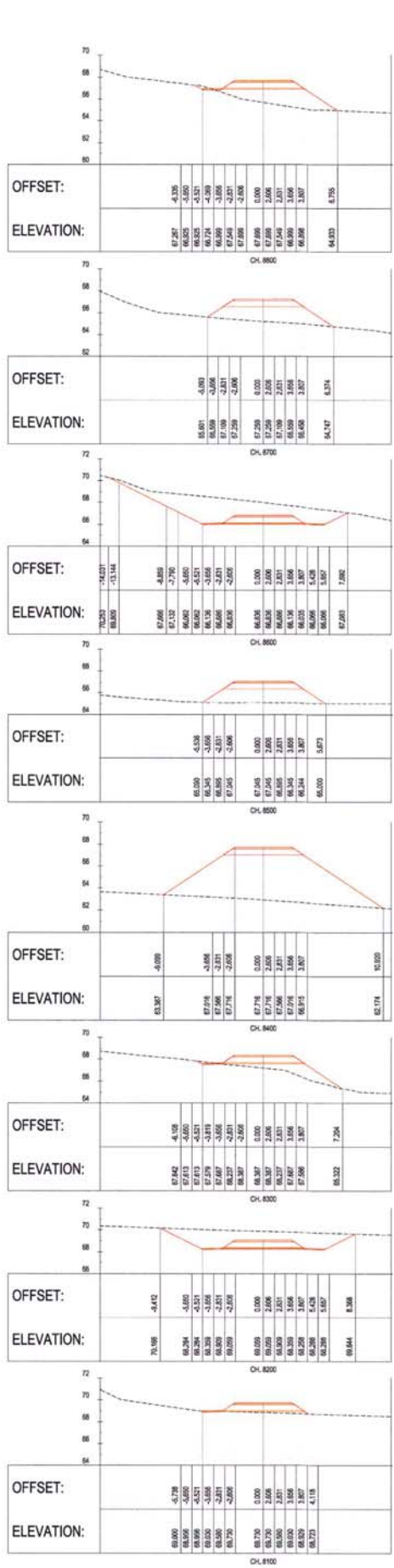
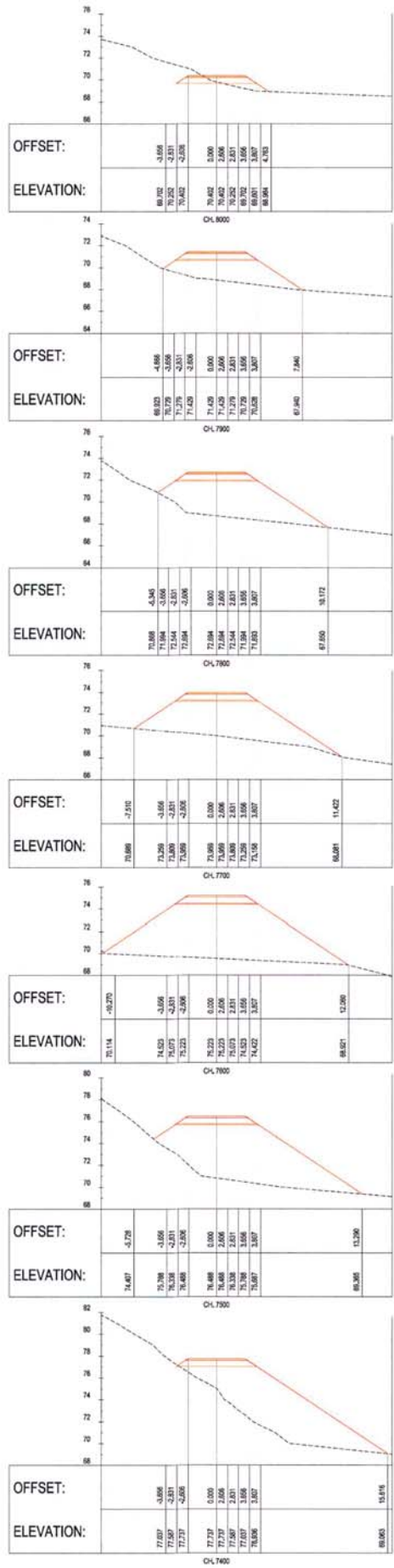
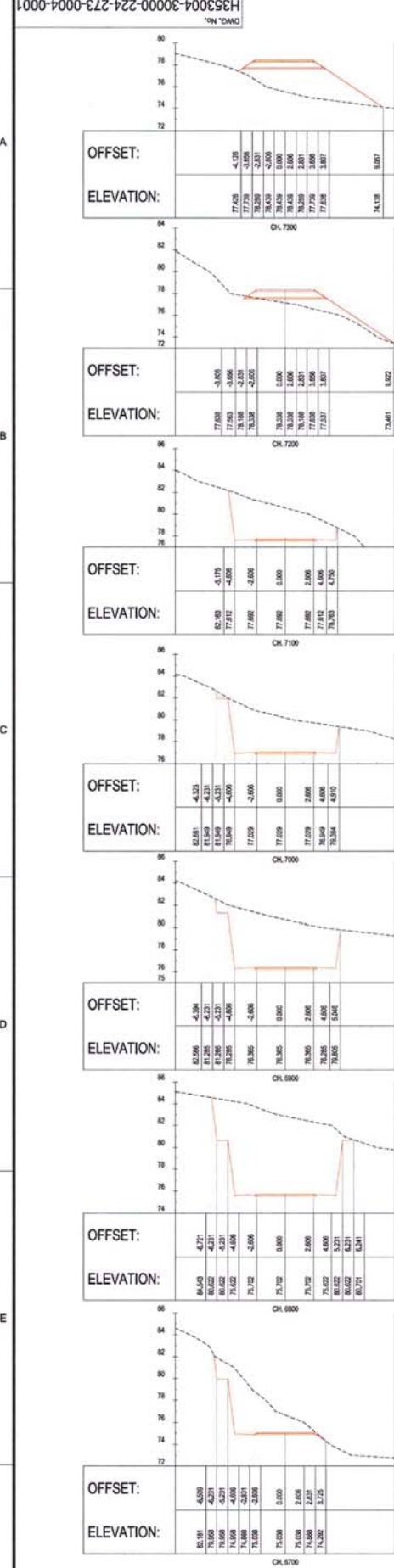
RAIL SITE
FORMATION CROSS SECTIONS
CH. 2+600 TO 4+100

SCALE 1:200

DWG. No. H353004-30000-224-273-0002-0001

REV 0

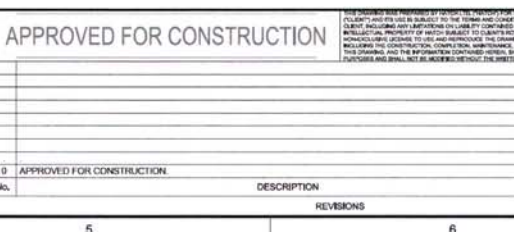
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H353004-30000-224-273-0003 to 0206 TYPICAL CROSS SECTIONS
H353004-30000-224-273-0003 to 0204 FORMATION SECTIONS - CH 75+000 TO 109+229
H353004-30000-224-273-0001 to 0519 FORMATION SECTIONS - CH 0+000 TO 74+000
H353004-30000-224-273-0004 to 0527 PLAN AND LONGITUDINAL SECTION - CH 0+000 TO 109+229

DRAWING No. REFERENCE DRAWINGS

NOTE:
1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS).
2. THIS DRAWING SUPERSEDES PREVIOUS DRAWING H353004-00000-224-260-0004-0001.



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Date: 2018/03/06
Signature: [Signature]

PERMIT NUMBER: P-012
The Association of Professional Engineers, Geologists and Geophysicists of South Africa

Baffinland
BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

RAIL SITE
FORMATION CROSS SECTIONS
CH. 6+700 TO 10+300

H353004-30000-224-273-0004-0001

SCALE: 1:200
DWG. No. H353004-30000-224-273-0004-0001
REV: 0

SHEET SIZE: A0



NOTE :

1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS) ,
2. THIS DRAWING SUPERSEDES PREVIOUS DRAWING H053004-00000-224-260-0006-0001

APPROVED FOR CONSTRUCTION

HATCH

† Baffinland

BAFFINLAND IRON MINES LTD.
MARY RIVER PROJECT

RAIL SITE
FORMATION CROSS SECTIONS
CH. 15+400 TO 20+600

DRAFTSPERSON	W RIGGARD	NR	2018/11/11
DESIGNER	A VAN NIEKEFK	NR	2018/11/02
CHECKER	G JOHNSTONE		2018/11/02
DESIGN COORD.	G JOHNSTONE		2018/11/02
RESP. ENG.	R HALIM		2018/11/02
LEAD DES. ENG.	F VAN BIJLON		03/11/2018
AREA LEAD	F VAN BIJLON		03/11/2018
ENG. MANAGER	F VAN BIJLON		03/11/2018
AREA MANAGER	F PITTMAN		04/03/2019
ROLE	NAME	SIGNATURE	DATE

SCALE	DWG. No.
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NOTE :

1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS) .
2. THIS DRAWING SUPERSEDES PREVIOUS DRAWING H353064-00000-224-260-0007-0001

H053004-30000-224-294-0003 to 0006	TYPICAL CROSS SECTIONS
H053004-30000-224-294-0035 to 0044	FORMATION SECTIONS - CH 75+000 TO 109+229
H053004-30000-224-273-0001 to 0018	FORMATION SECTIONS - CH 6+000 TO 74+800
H053004-30000-224-271-0004 to 0027	PLAN AND LONGITUDINAL SECTION - CH 0+000 TO 109+229

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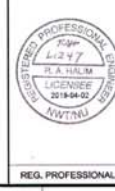
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- NOTE:
1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS).
2. THIS DRAWING SUPERSEDES PREVIOUS DRAWING H353004-00000-224-260-0009-0001.

DRAWING NO.	DRAWING TITLE
H353004-30000-224-294-0003 TO 0006	TYPICAL CROSS SECTIONS
H353004-30000-224-294-0005 TO 0044	FORMATION SECTIONS - CH 75+000 TO 109+229
H353004-30000-224-273-0001 TO 0018	FORMATION SECTIONS - CH 0+000 TO 74+000
H353004-30000-224-271-0004 TO 0027	PLAN AND LONGITUDINAL SECTION - CH 0+000 TO 109+229



APPROVED FOR CONSTRUCTION

NO.	DESCRIPTION	BY	CHKD	DATE
0	APPROVED FOR CONSTRUCTION	A/JN		2019/03/08

DESIGNER	CHECKER	DESIGN COORD.	RESP. ENG.	LEAD DISC. ENG.	AREA LEAD	ENG. MANAGER
A VAN NIEKERK	G JOHNSTONE	G JOHNSTONE	R HALIM	F VAN BILJON	F VAN BILJON	F VAN BILJON

HATCH

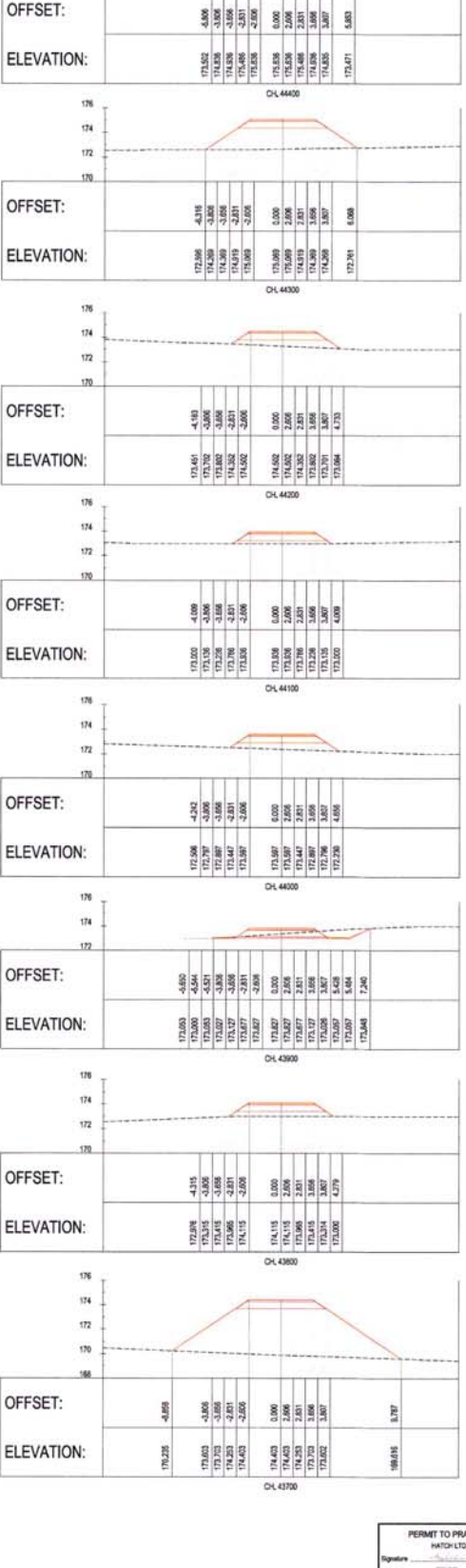
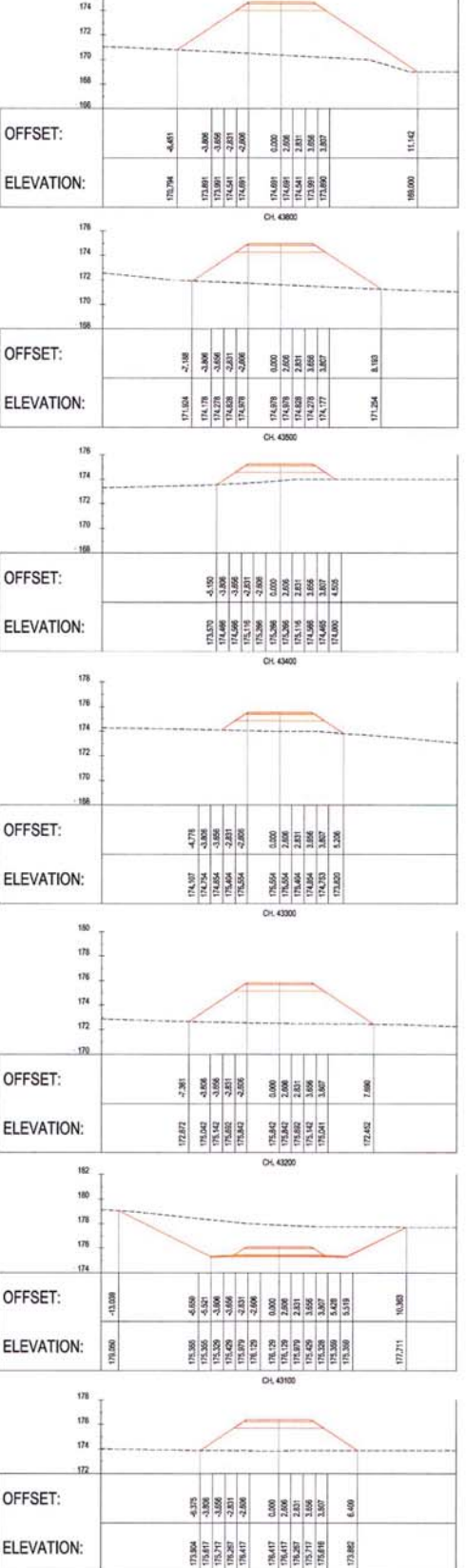
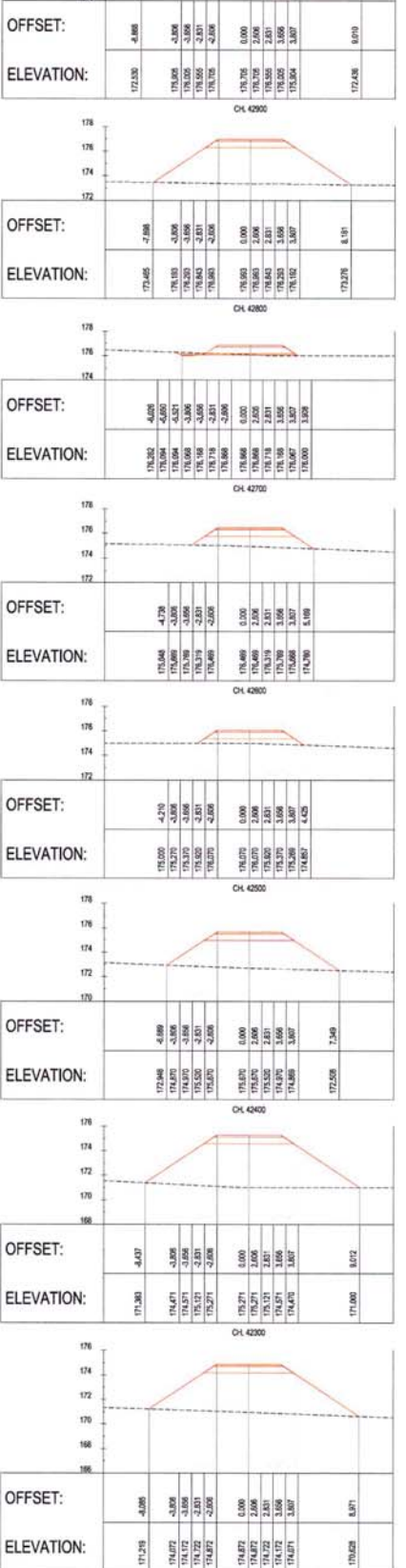
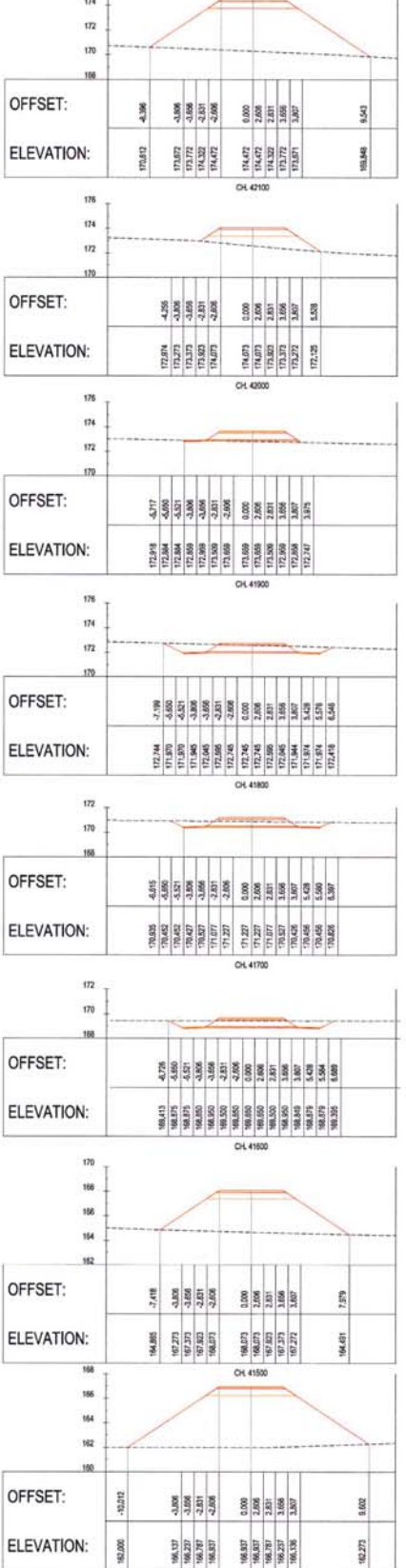
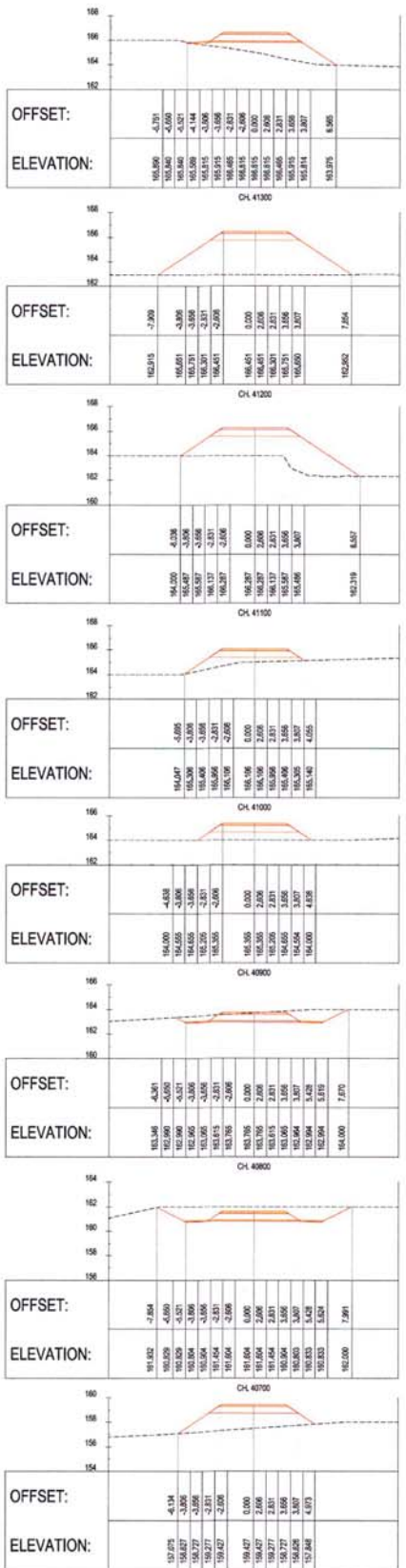
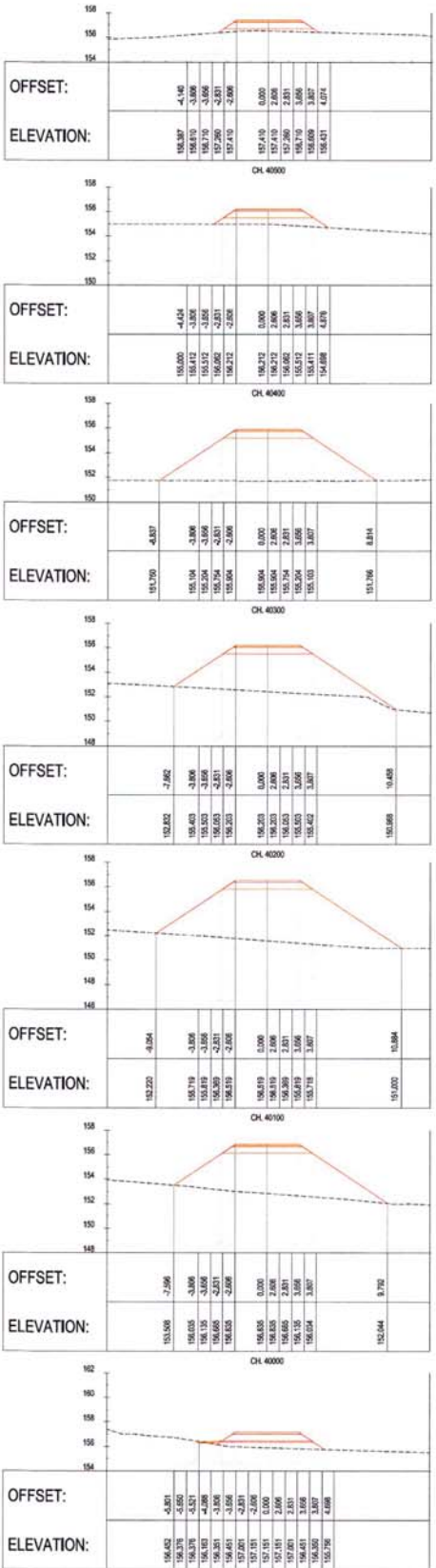
Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

RAIL SITE
FORMATION CROSS SECTIONS
CH. 36+800 TO 39+800

SCALE: 1:200
DWG. NO.: H353004-30000-224-273-0009-0001
REV: 0

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NOTE:
1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS).
2. THIS DRAWING SUPERSEDES PREVIOUS DRAWING H353004-00000-224-260-0010-0001.

H353004-00000-224-260-0010-0001 TYPICAL CROSS SECTIONS	
H353004-00000-224-260-0010-0001 CH 75+000 TO 109+229	
H353004-00000-224-260-0010-0001 CH 110+000 TO 144+000	
H353004-00000-224-260-0010-0001 CH 145+000 TO 179+000	
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DRAWING TITLE	
H353004-00000-224-260-0010-0001 CH 40000 TO 45000	
REFERENCE DRAWINGS	
H353004-00000-224-260-0010-0001 CH 40000 TO 45000	

APPROVED FOR CONSTRUCTION

REG. PROFESSIONAL:

DATE: 2018/03/08

HATCH

Baffinland

BAFFINLAND IRON MINES LP

MARY RIVER SITE

FORMATION CROSS SECTIONS

CH. 39+900 TO 44+400

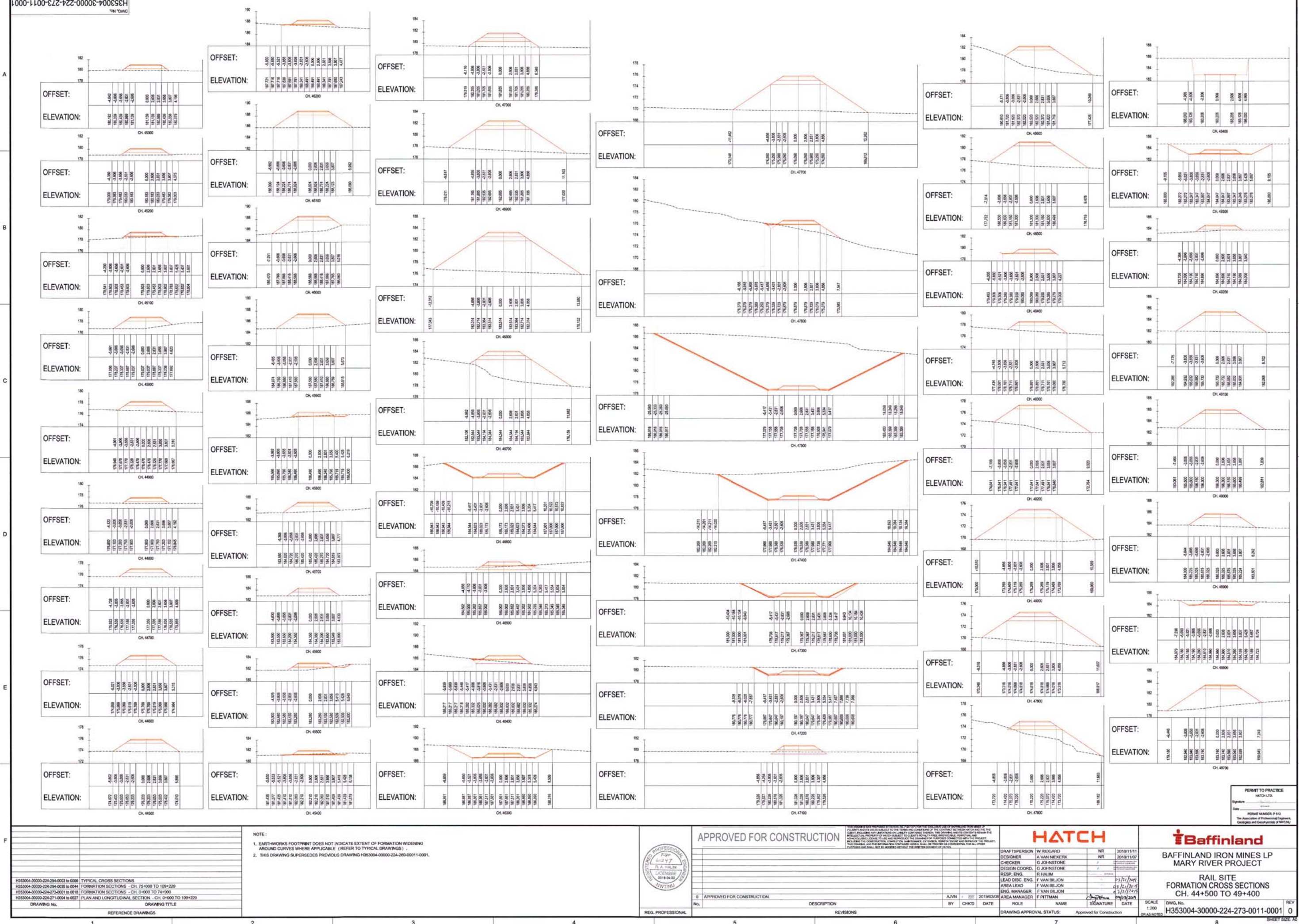
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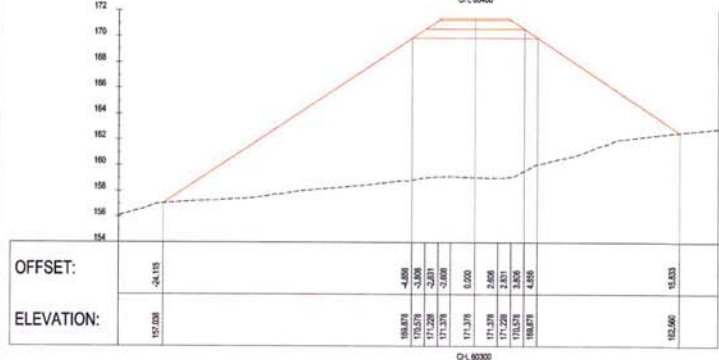
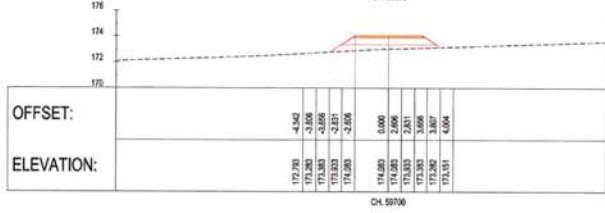
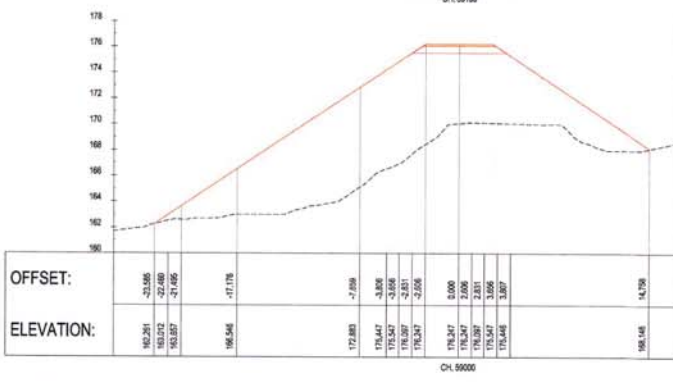
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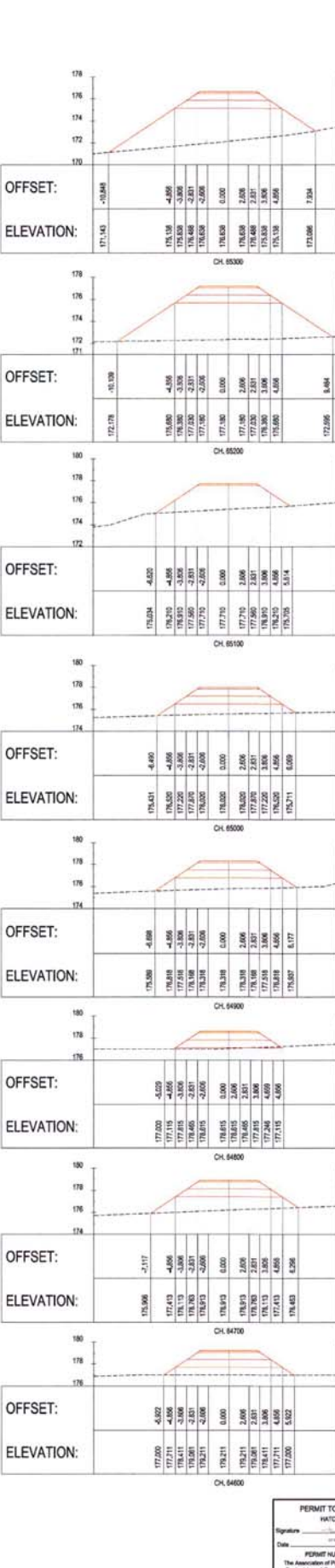
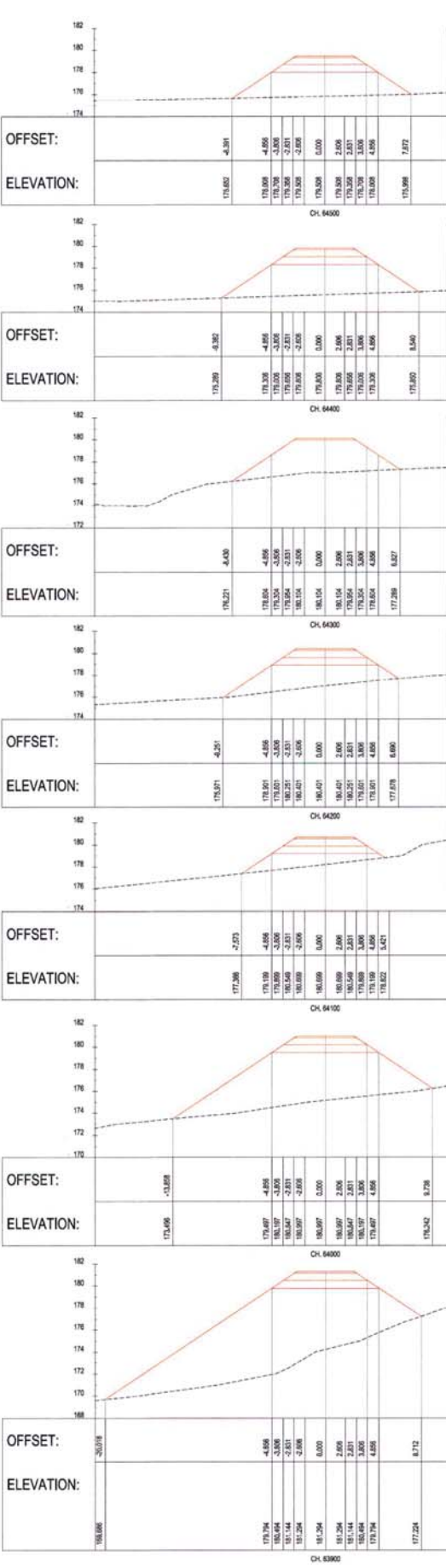
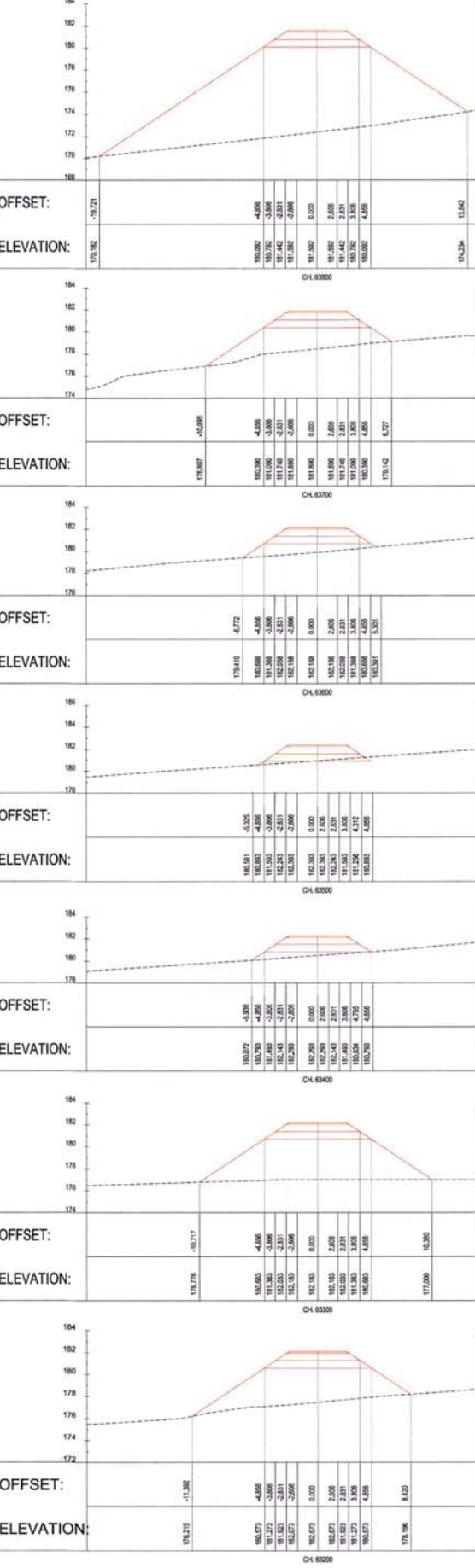
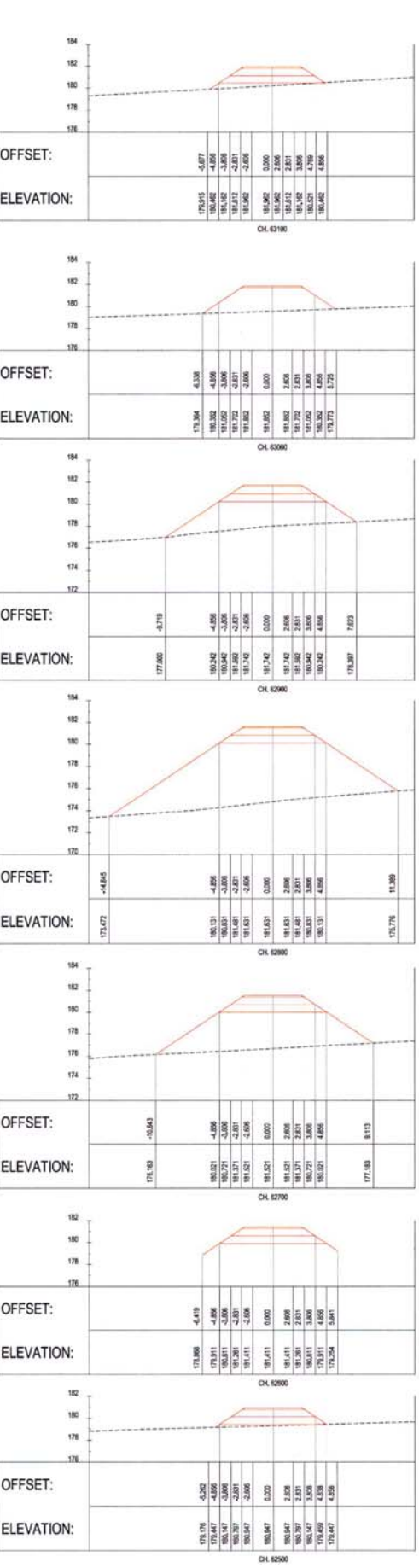
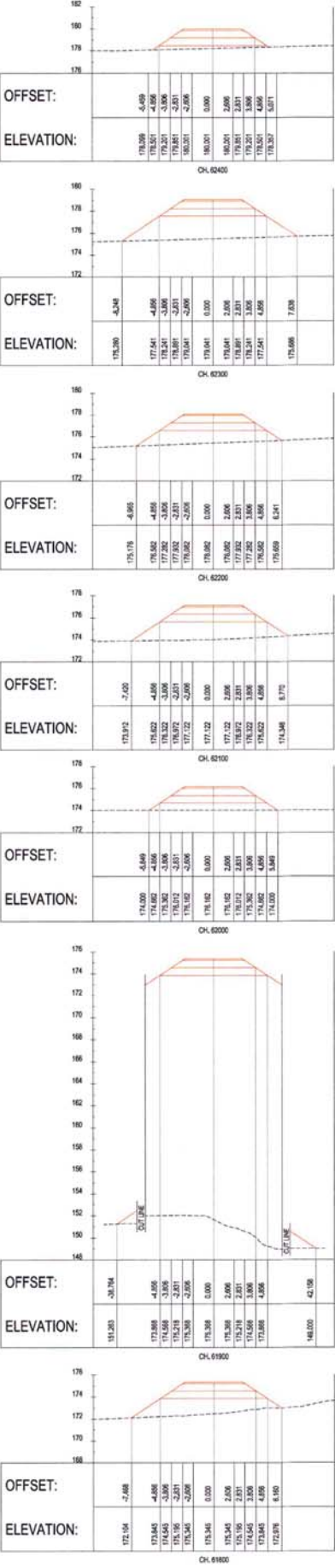
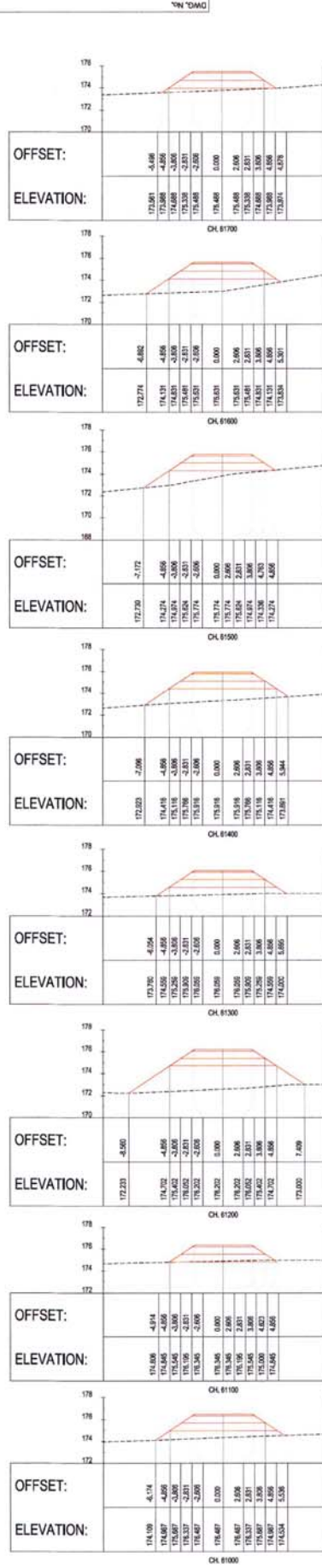
NO.	DESCRIPTION	BY	CHKD	DATE
0	APPROVED FOR CONSTRUCTION	AVN	CHD	2018/03/08

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	W. HEDGARD		2018/11/17
DESIGNER	A. VAN NIEKERK		2018/11/07
CHECKER	G. JOHNSTONE		
DESIGN COORD.	G. JOHNSTONE		
RESP. ENG.	F. VAN RIJON		
AREA LEAD	F. VAN RIJON		
ENG. MANAGER	F. VAN RIJON		
AREA MANAGER	F. PITTMAN		





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HATCH

RAIL SITE
FORMATION CROSS SECTION
CH. 61+000 TO 65+300

DWG. No.
H353004-30000-224-273-001

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Date _____
PERMIT NUMBER: P 512
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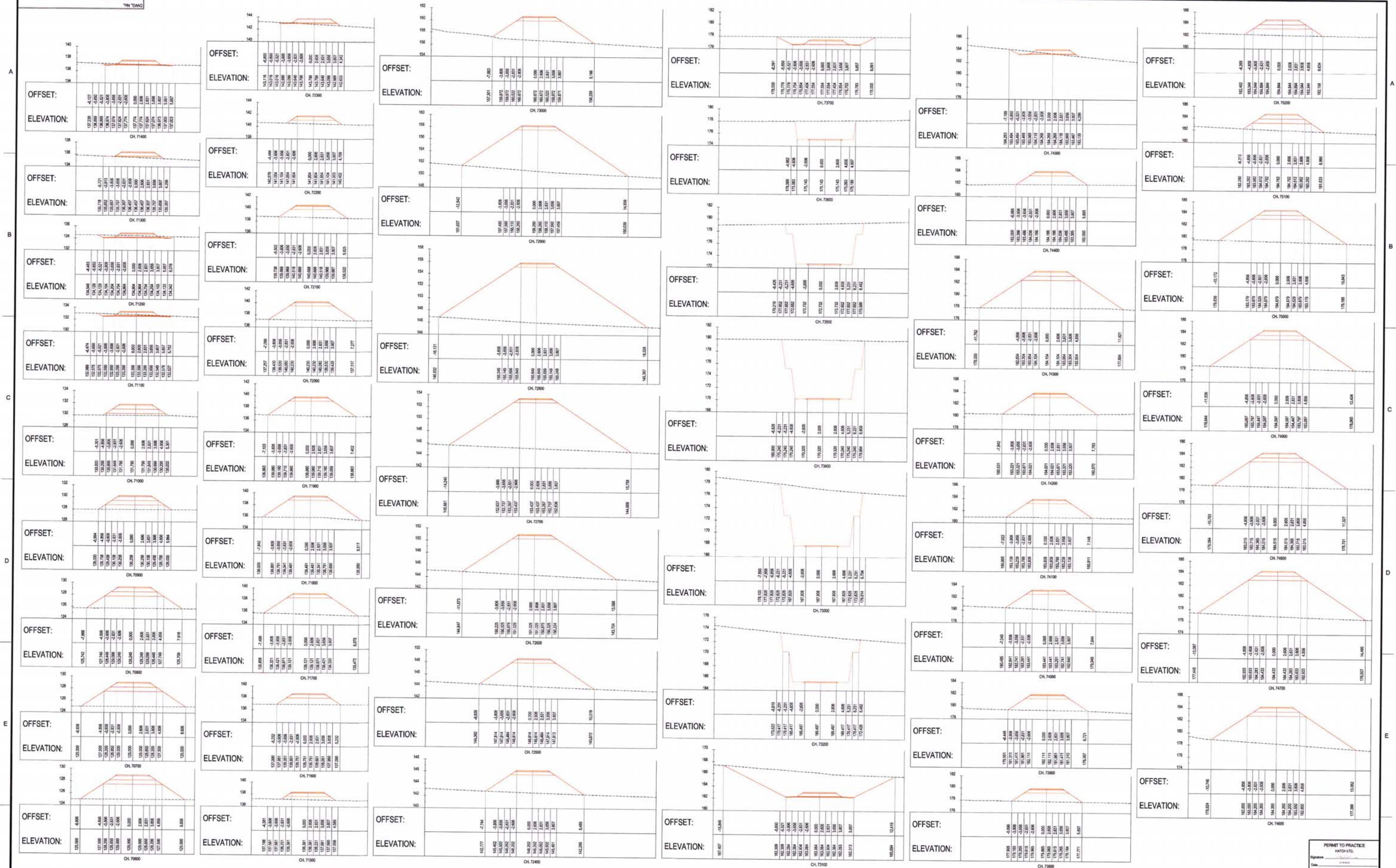
APPROVED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION:

DRAFTSPERSON	W RIDGARD	NR	2018/11
DESIGNER	A VAN NIEKERK	NR	2018/11
CHECKER	G JOHNSTONE		
DESIGN COORD.	G JOHNSTONE		
RESP. ENG.	R HALIM		
LEAD DISC. ENG.	F VAN BILJON		03/12/20
AREA LEAD	F VAN BILJON		03/12/20
ENG. MANAGER	F VAN BILJON		03/12/20
AREA MANAGER	F PITTMAN		04/03/21

ROLE	NAME	SIGNATURE	DATE
DRAWING APPROVAL STATUS:		Approved for Construction	

SCALE 1:200	DWG. No. H353004-30000-224-273-0015-0001	RE C
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NOTE:

- EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS)
- THIS DRAWING SUPERSEDES PREVIOUS DRAWING H353004-00000-224-260-0018-0001.

HATCH

APPROVED FOR CONSTRUCTION

REG. PROFESSIONAL

PERMIT TO PRACTICE

Signature: [Signature]

Date: 2018/11/11

PERMIT NUMBER: P 512

The Association of Professional Engineers, Geologists and Geophysicists of BC

Baffinland

BAFFINLAND IRON MINES LP

MARY RIVER PROJECT

RAIL SITE

FORMATION CROSS SECTIONS

CH. 70+600 TO 75+200

DRAFTSPERSON: W. RIGGARD

CHECKED: A. VAN MEUSEN

DESIGN COORD.: G. JOHNSTONE

RESP. ENG.: R. HALIM

LEAD DISC. ENG.: F. VAN BILJON

AREA LEAD: F. VAN BILJON

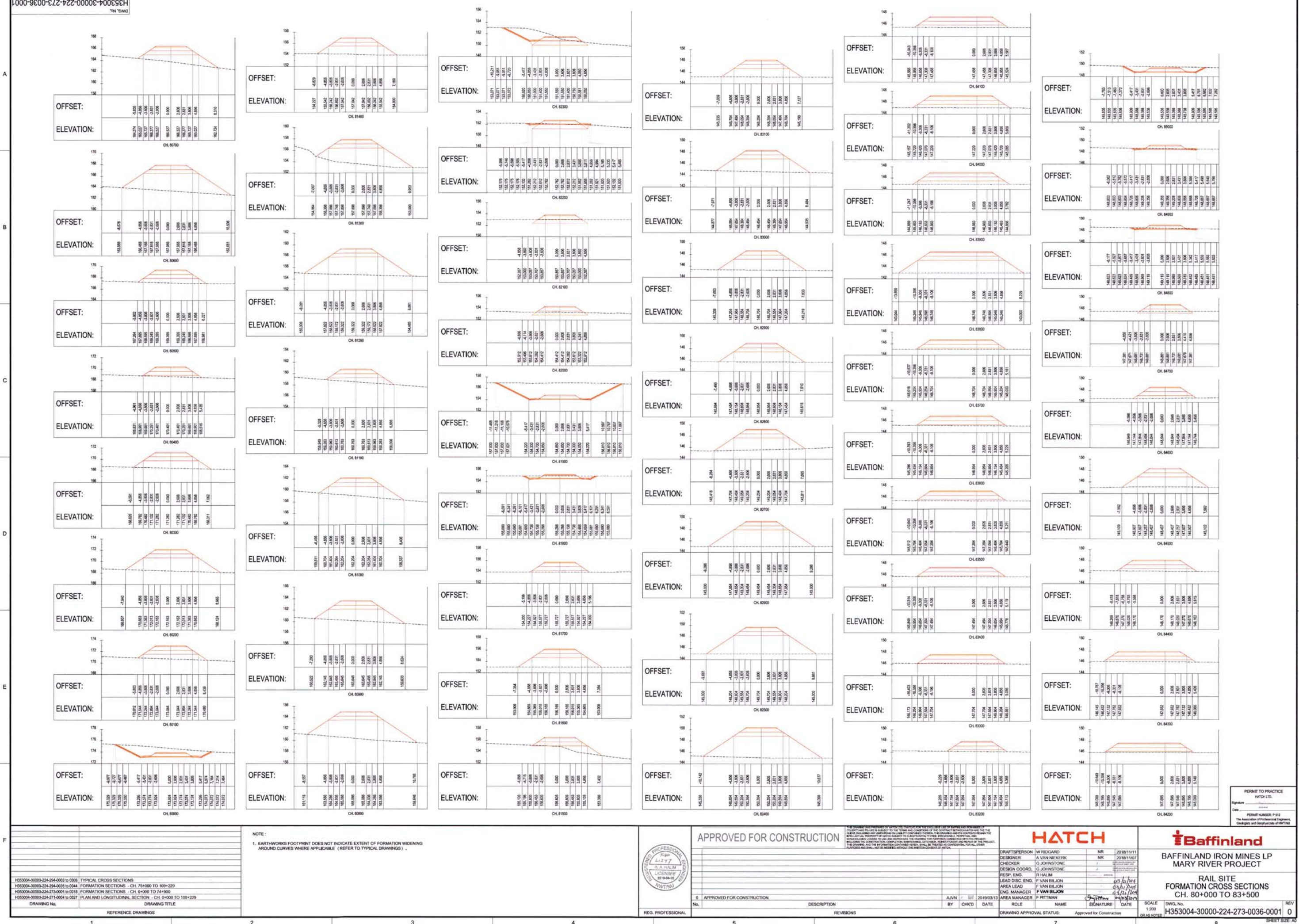
ENG. MANAGER: F. PITTMAN

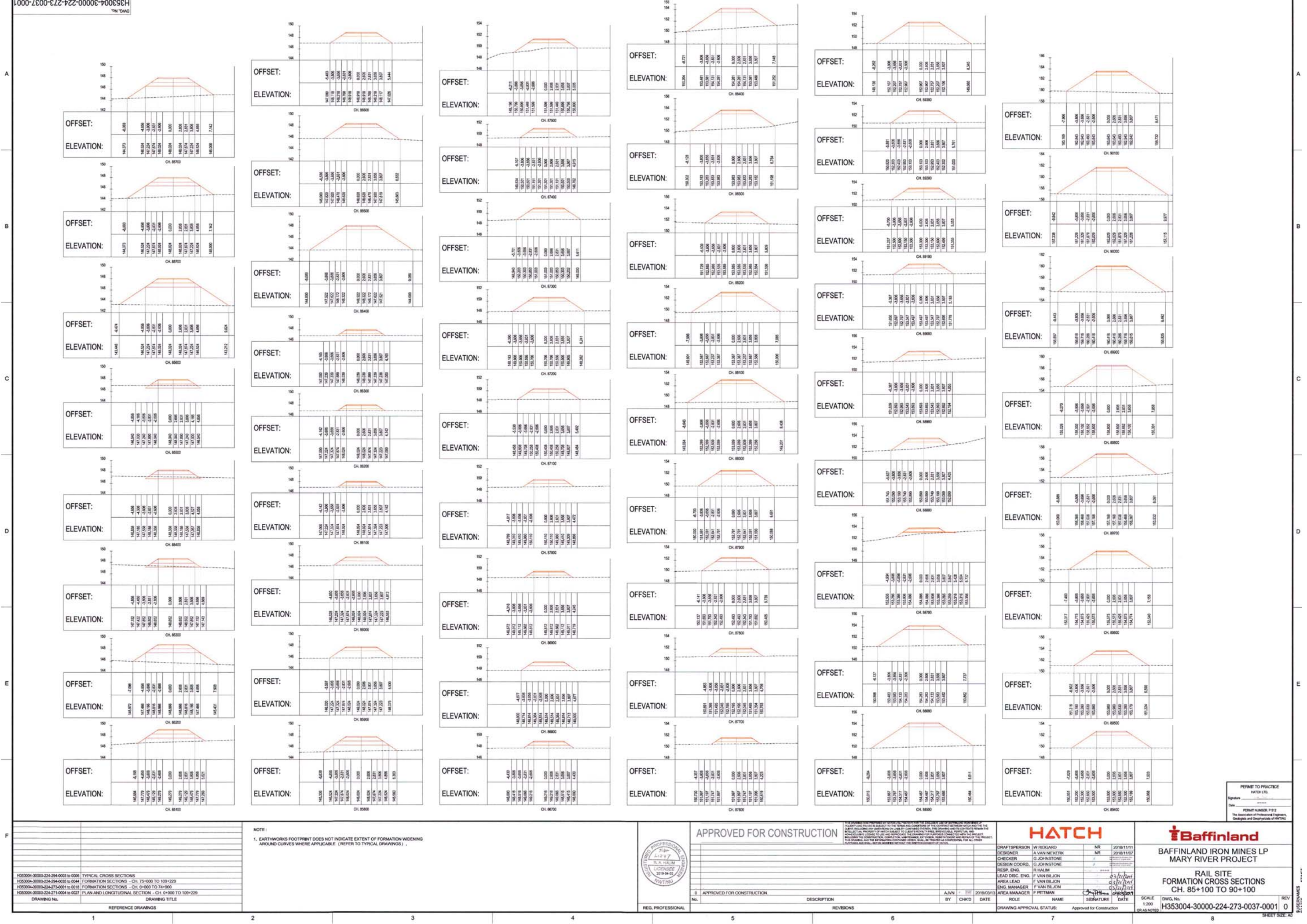
DRAWING APPROVAL STATUS: Approved for Construction

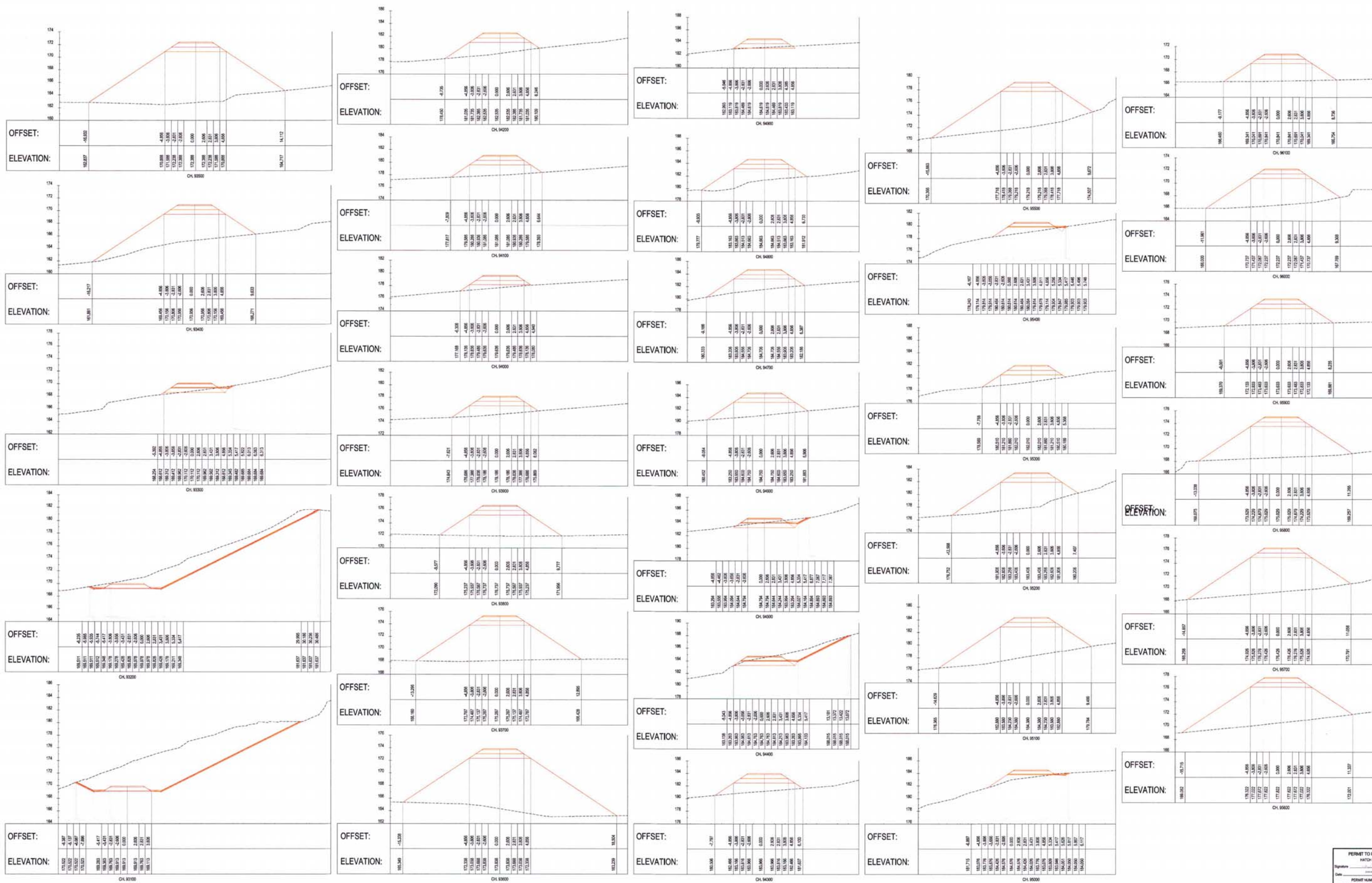
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DWG. No.: H353004-00000-224-273-0018-0001

SHEET SIZE: A2







NOTE :

1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS) .

H353004-30000-224-294-0003 to 0006	TYPICAL CROSS SECTIONS
H353004-30000-224-294-0035 to 0044	FORMATION SECTIONS - CH 75+000 TO 109+229
H353004-30000-224-273-0001 to 0018	FORMATION SECTIONS - CH 0+000 TO 74+900
H353004-30000-224-271-0004 to 0027	PLAN AND LONGITUDINAL SECTION - CH 0+000 TO 109+229
DRAWING No.	DRAWING TITLE
REFERENCE DRAWINGS	



APPROVED FOR CONSTRUCTION

0	APPROVED FOR CONSTRUCTION
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REVISIONS

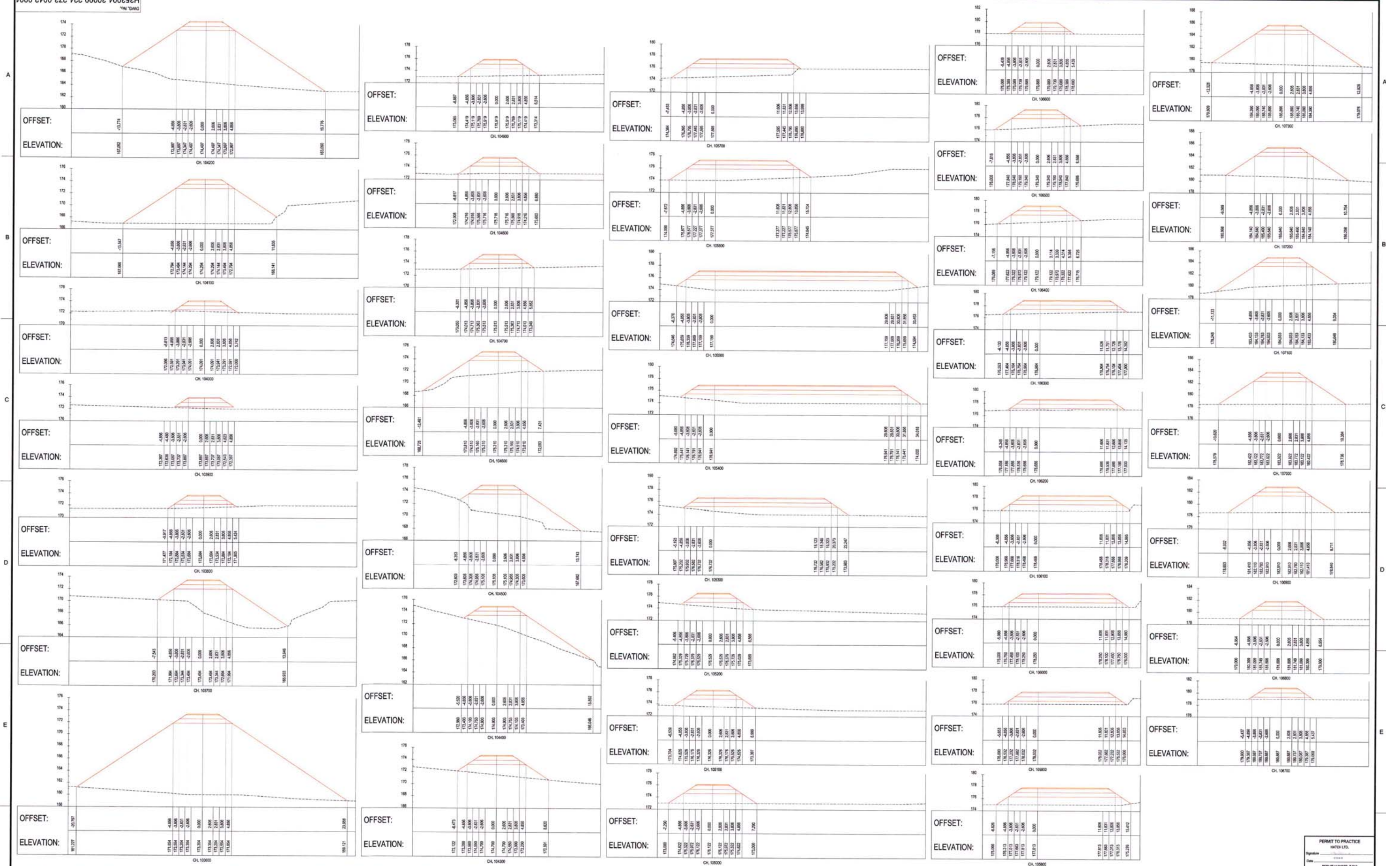
THIS DRAWING HAS BEEN PREPARED BY FRONZ, THE TRUSTEY FOR THE EXCLUSIVE USE OF BARTLAND AND ASSOCIATES OF FLORIDA AND ITS USE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN FRONZ AND THE CLIENT. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF FRONZ VIOLATES THE INTELLECTUAL PROPERTY OF FRONZ SUBJECT TO CLIENT'S GENERAL THIRD-PARTY, PROPRIETARY, PERSONAL AND NONDISCLOSURE OBLIGATIONS 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 USED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF FRONZ.

HATCH			
DRAFTSPERSON	W RICHARD	NR	2018/11/1
DESIGNER	A VAN NEE KIRK	NR	2018/11/1
CHECKER	G JOHNSONE		
DESIGN COORD.	G JOHNSONE		
RESP. ENGR.	R HAM		
LEAD DESIG. ENGR.	F VAN BILJON		23/11/2018
AREA LEAD	F VAN BILJON		5/12/2018
AREA MANAGER	F VAN BILJON		03/12/2018
AREA MANAGER	P FETTMAN		04/12/2018
ROLE	NAME	SIGNATURE	DATE
DRAWING APPROVAL STATUS:		Authorized for Construction	

Baffinland
BAFFINLAND IRON MINES LP
MARY RIVER PROJECT
RAIL SITE
FORMATION CROSS SECTIONS
CH. 93+100 TO 96+100

SCALE 1:200 OR AS NOTED	DWG. No. H353004-30000-224-273-0039-0001	REV 0
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PERMIT TO PRACTICE
NATCH LTD.
Signature _____
Date _____
PERMIT NUMBER: P 512
The Association of Professional Engineers
Certificants and Geotechnicals of NSW



NOTE:

1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS) .

H353004-30000-224-294-0003 to 0006	TYPICAL CROSS SECTIONS
H353004-30000-224-294-0035 to 0044	FORMATION SECTIONS - CH. 75+000 TO 109+229
H353004-30000-224-273-0051 to 0058	FORMATION SECTIONS - CH. 0+000 TO 74+900
H353004-30000-224-271-0004 to 0017	PLAN AND LONGITUDINAL SECTION - CH. 0+000 TO 100+229

DRAWING No.	DRAWING TITLE
REFERENCE DRAWINGS	

1	
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APPROVED FOR CONSTRUCTION

[illegible]

[illegible]

0	APPROVED FOR CONSTRUCTION
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No.	DESCRIPTION
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HATCH

[illegible]

SON	W. RUGARD	NR
	A. VAN NIEKERK	NR

	G JOHNSTONE	2
RD	G JOHNSTONE	2

NO.	G JONGSTONE	
	R HALIM	

NG.	F VAN BILJON	
	F VAN BILJON	

ER	F VAN BILJON	
ED	E BITTMAN	

NAME	SIGNATURE
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PROVAL STATUS: Approved for Con

7

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Bathinland

BAFFINLAND IRON MINES I

MARY RIVER PROJECT

RAIL SITE

RAIL SITE FORMATION CROSS SECTION

CH. 103+600 TO 107+300

DWG. No.

H353004-30000-224-273-0042

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Figure 1. The effect of the number of trials on the number of correct responses.

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MINERAL

N MINES LP
PROJECT

PROJECT _____

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107+300

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SHEET 522

USERNAMES	STIMES
SOATES	

