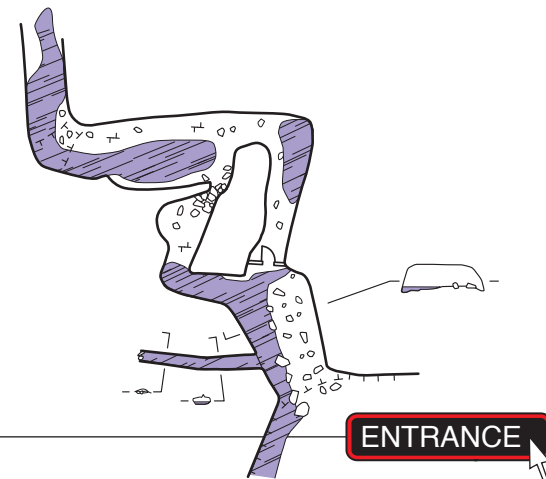


CASTLEGUARD CAVE

BANFF NATIONAL PARK, ALBERTA, CANADA

FIELD MAP PDF - Version 2 / 2012

INSTRUMENTS AND TAPE SURVEY 1968-2010
LENGTH: 21011 METRES DEPTH: 384 METRES



SURVEYORS 1968-2010

Troy Arnold, Bali Ballmann, Peggy Beninger, Rick Blak, Bill Boley, Marcus Buck, Chris Chenier, Richard Comtois, Julian Coward, Dave Crann, Phil Deacon, Sean Doherty, John Donovan, Rick Doyle, Ian Drummond, Gary Dunkley, Kevin Ecock, Gavin Elsley, Mike Evans, John Fish, Derek Ford, Linda Gough, Mike Goodchild, Dan Green, Martin Groves, Steve Grundy, Gael Herve, Greg Horne, John Kaandorp, Thor Martin Klepaker, Steve Knutson, Ron Lacelle, Barry Lewis, Bill MacDonald, Ian McKenzie, Jim McPhail, Tom Miller, Richard Mossop, Johnny Mühlestein, Jane Mulkewich, Ian Phillips, Jon Piguet, Gary Pilkington, Guy Poulton, Chris Pugsley, Toni Pulfer, Jean Roberge, Christian Rushfeldt, Jon Rollins, Kirk Safford, David Sawatzky, Pete Smart, Randy Spahl, Don Staniford, Peter Thompson, Mărek Vokác, Eric von Vorkampff, Leesa Walker, Olivia Whitwell, Andres Wildberger, Mark Wilson, Steve Worthington, Chas Yonge, McMaster University Karst Research Group

SURVEY ACCURACY

Survey method: Hand-held instruments and fibreglass tape measure. Compass and clinometer readings to the nearest degree. Some earlier surveys measured distances to nearest decimetre; current standards measure to nearest centimetre.

PENCIL SKETCH:

Taco van Ieperen 1968-1988
Chas Yonge 1999
Ron Lacelle 2002
Dan Green / Greg Horne / Mărek Vokác: 2005

DIGITAL MAP:

Dan Green 1968-2012 compilation and updates
Greg Horne 2005 updates

A Parks Canada / Alberta Speleological Society joint project
Produced by Dan Green 2012



CLICK TO MAPSHEET

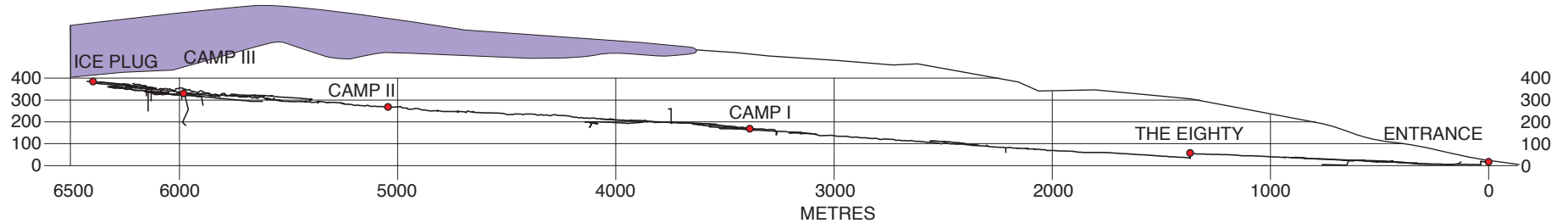
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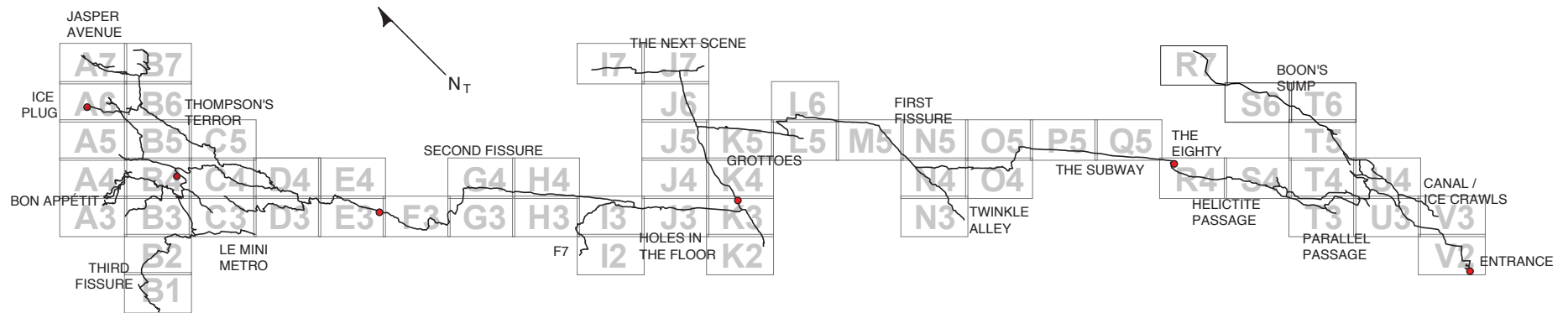
CASTLEGUARD CAVE FIELD MAP INDEX

COVER
LEGEND
ENTRANCE

PROFILE: 45 DEGREE VIEW



PLAN



INDEX

A3 DESSERT GLACÉ	B7 SUPPLIES PASSAGE	H3 F7 MIDDLE	K3 HOLES-IN-THE-FLOOR	P5 FIRST FISSURE (Start)
A4 BON APPÉTIT	C3 LE MINI METRO	H4 SECOND FISSURE	K4 THE GROTTOES	Q5 THE SUBWAY
A5 GLACIER FORK	C4 BOON'S AVEN	I2 F7 END	K5 THE CORRIDOR	R4 THE EIGHTY
A6 THE ICE PLUG	C5 THOMPSON'S TERROR	I3 F7	L5 CORRIDOR SUMP	R7 SUMP DIVE 3
A7 JASPER AVENUE	D3 MUNCHKIN PEON TRAIL	I7 THE NEXT SCENE (West)	L6 FIRST FISSURE	S4 HELICTITE PASSAGE
B1 CRAWL ONTARIO	D4 THE CRUTCH	J3 200 FOOT AVEN	M5 MOVIE POT	S6 SUMP DIVE 2
B2 GALERIE DE LA BRISE	E3 CAMP II	J4 THE GROTTOES (North)	N3 TWINKLE ALLEY	T3 THE POOLS
B3 SCHÖGGISTOLLE	E4 CUBIC PEARLS	J5 THE NEXT SCENE (Junction)	N4 WATERFALL ROOM	T4 PARALLEL PASSAGE
B4 SCORE CANYON	F3 THE BIG ROOM	J6 THE NEXT SCENE (South)	N5 MINI HOLES	T5 BOON'S SUMP
B5 GLACIER PASSAGE	G3 MUD BANK PASSAGE	J7 THE NEXT SCENE (East)	O4 PALEO POT	T6 SUMP DIVE 1
B6 TIME TRAVELLER	G4 SLICKENSLIDES	K2 BOG ALLEY	O5 EASY STREET	U3 BLUNDER JUNCTION
				U4 BOON'S BLUNDER
				V2 ENTRANCE
				V3 CANAL / ICE CRAWLS

CASTLEGUARD CAVE FIELD MAP LEGEND

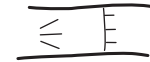
COVER

ENTRANCE

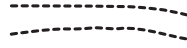
unmapped lead ; too tight



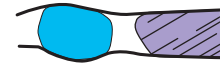
floor slope ; floor drop



unsurveyed passage



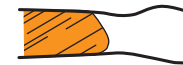
pool ; seasonal ice



flowstone on wall ; soda straws



glacial ice



aven / ceiling change



water ; sump



sand, rocks, breakdown



water direction / inlet



bedrock



pitch, climb, handline

P24 2C 5HL

mud



navigable link



ice
plugs

tight

ice
plugice
plug

Dessert Glacé

HEADWARD COMPLEX

**drafting
boulder
choke**



INDEX

0

METRES

100

CASTLEGUARD CAVE

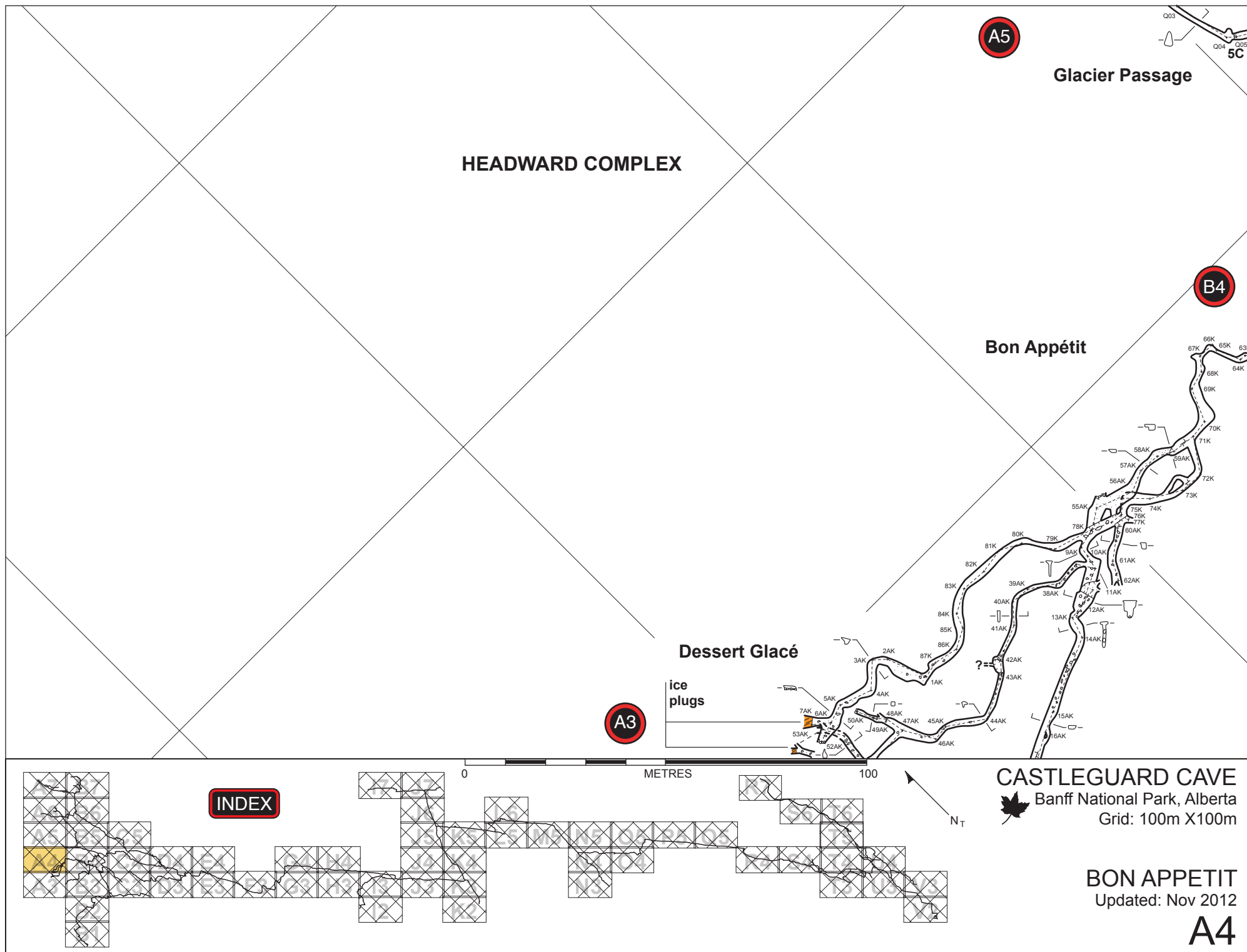
Banff National Park, Alberta

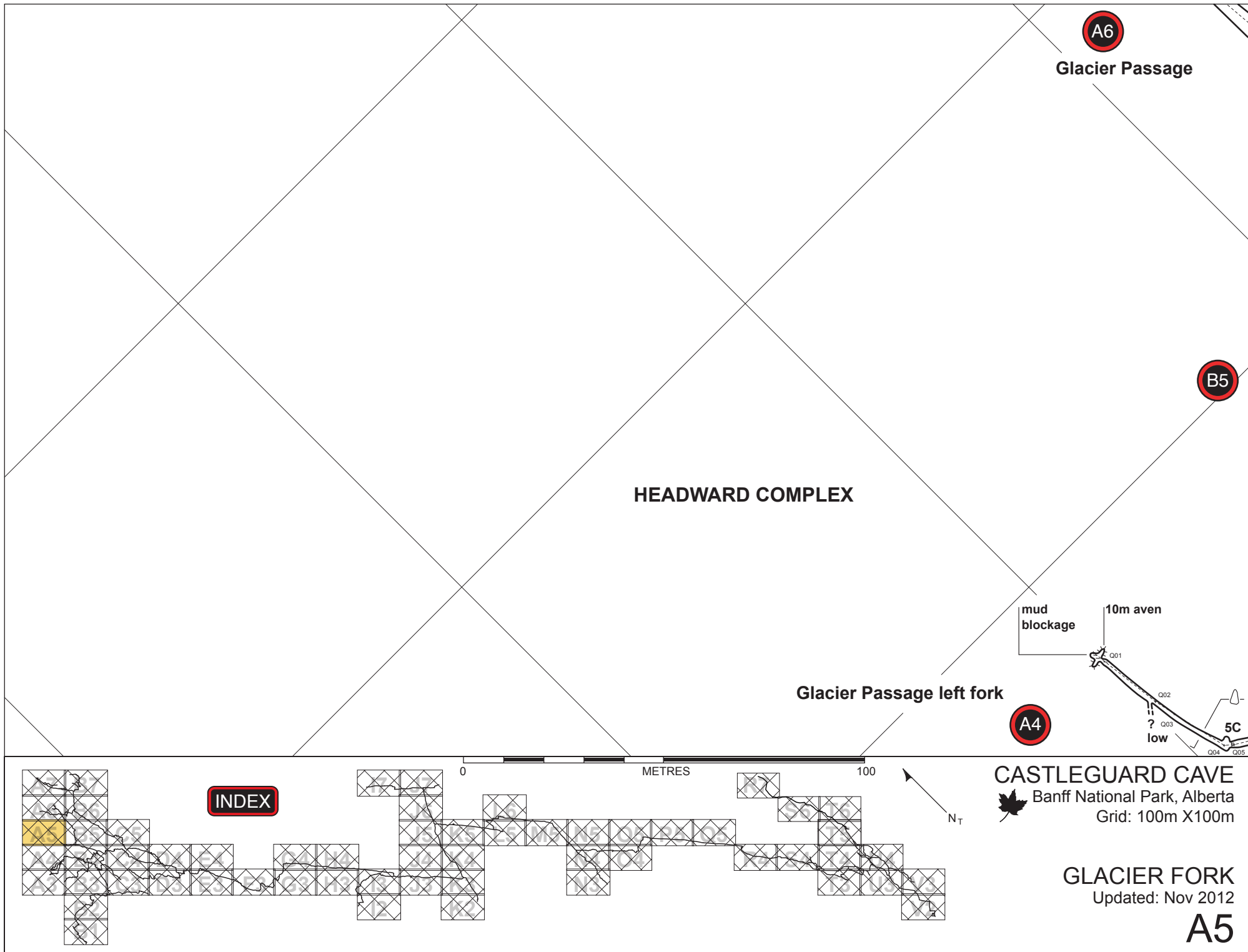
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DESSERT GLACÉ

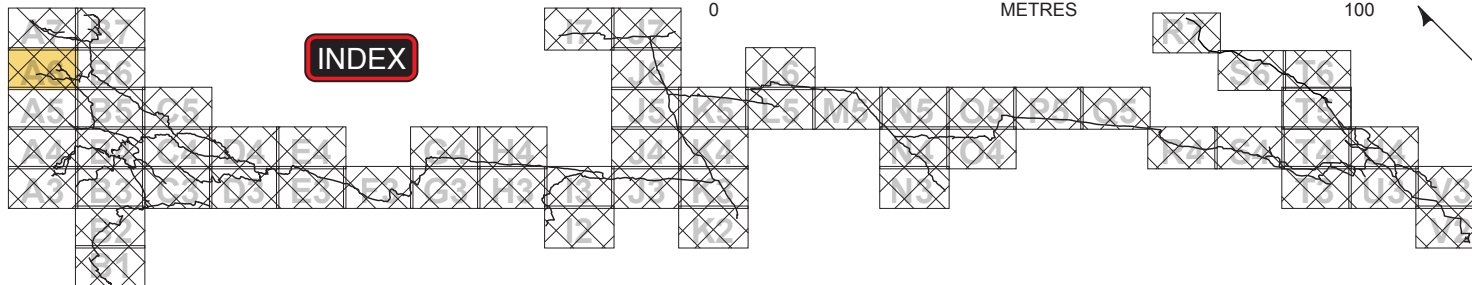
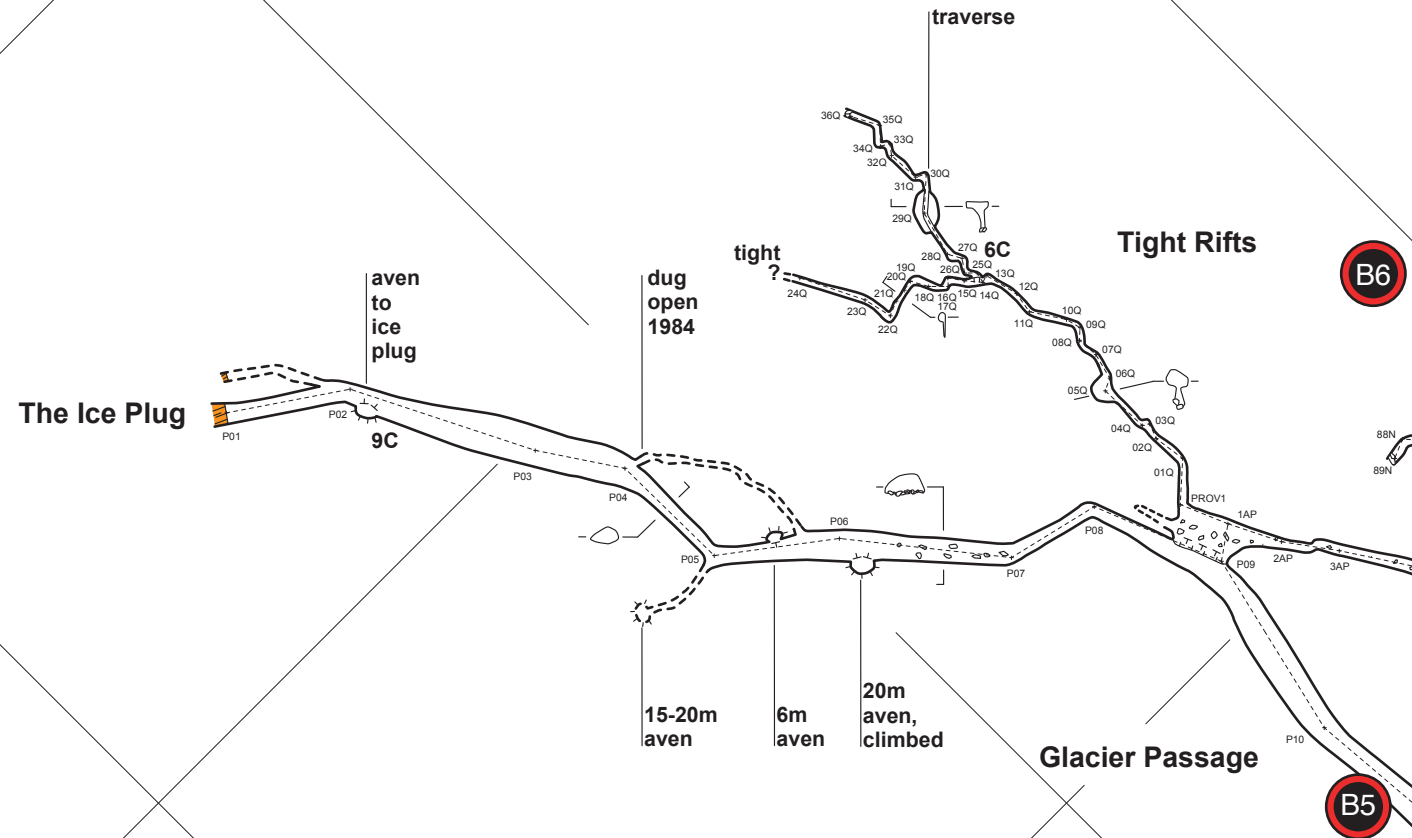
Updated: Nov 2012

A3





HEADWARD COMPLEX



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

THE ICE PLUG
Updated: Nov 2012

A6

nice Plug

HEADWARD COMPLEX

Jasper Avenue

B7

0 METRES 100

INDEX

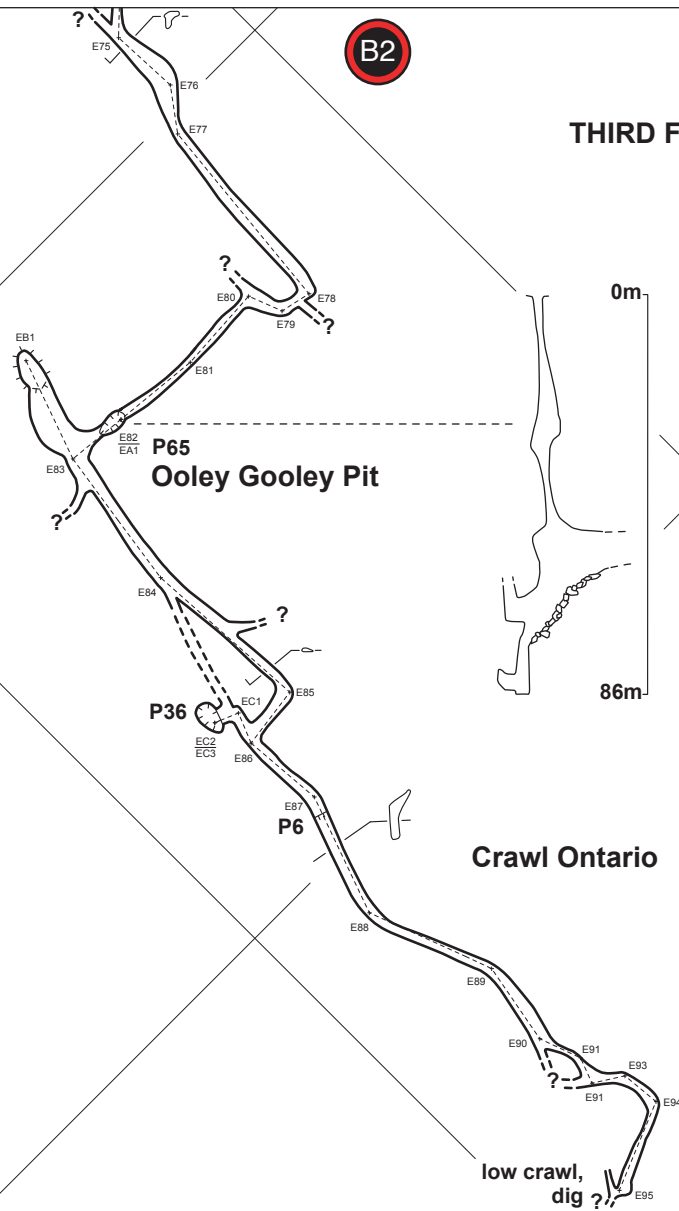
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

JASPER AVENUE
Updated: Nov 2012

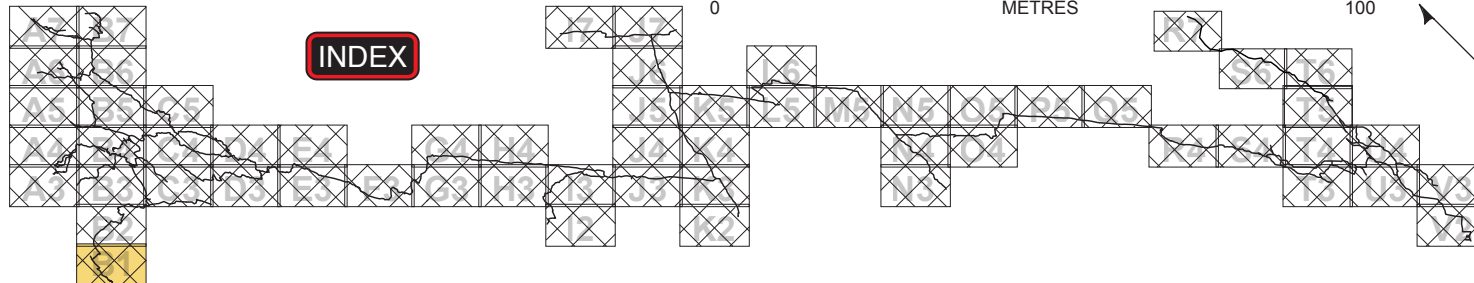
A7

B2

THIRD FISSURE

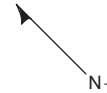


Crawl Ontario



INDEX

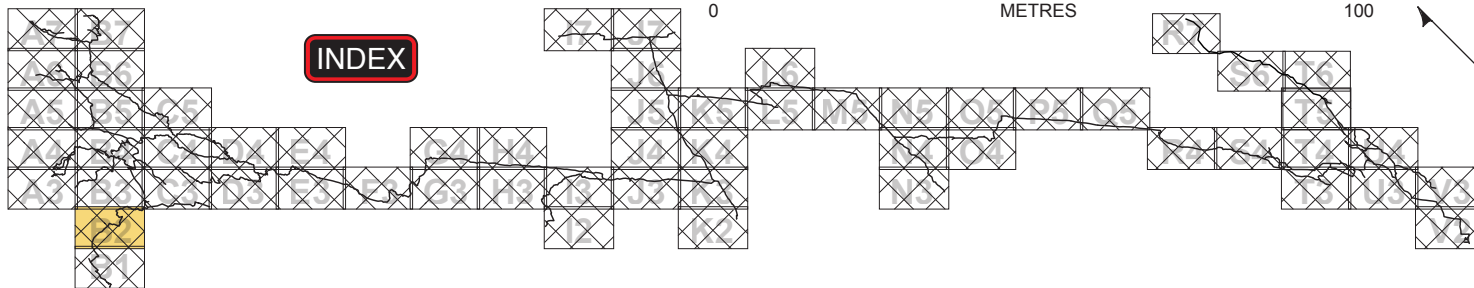
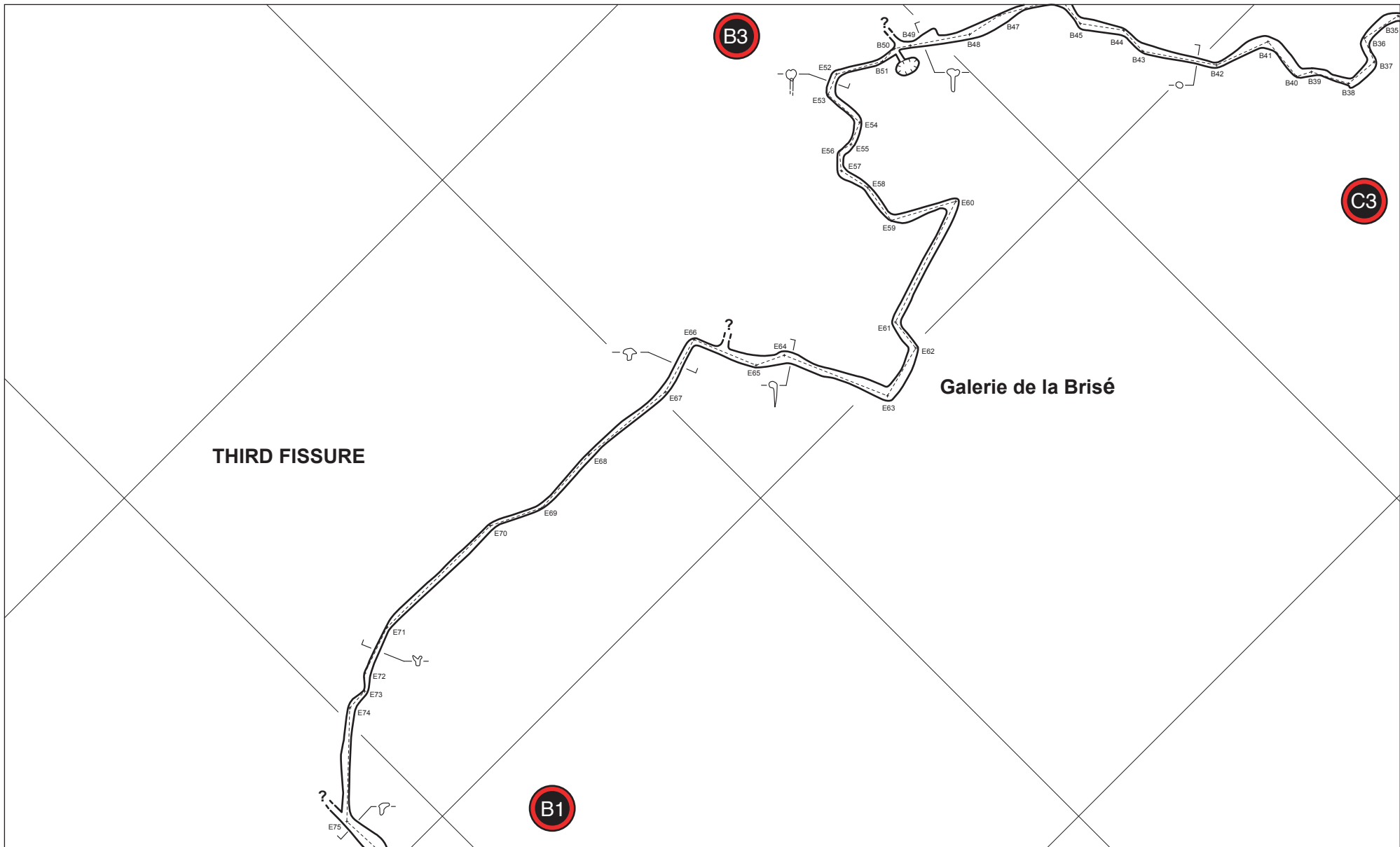
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CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

CRAWL ONTARIO
Updated: Nov 2012

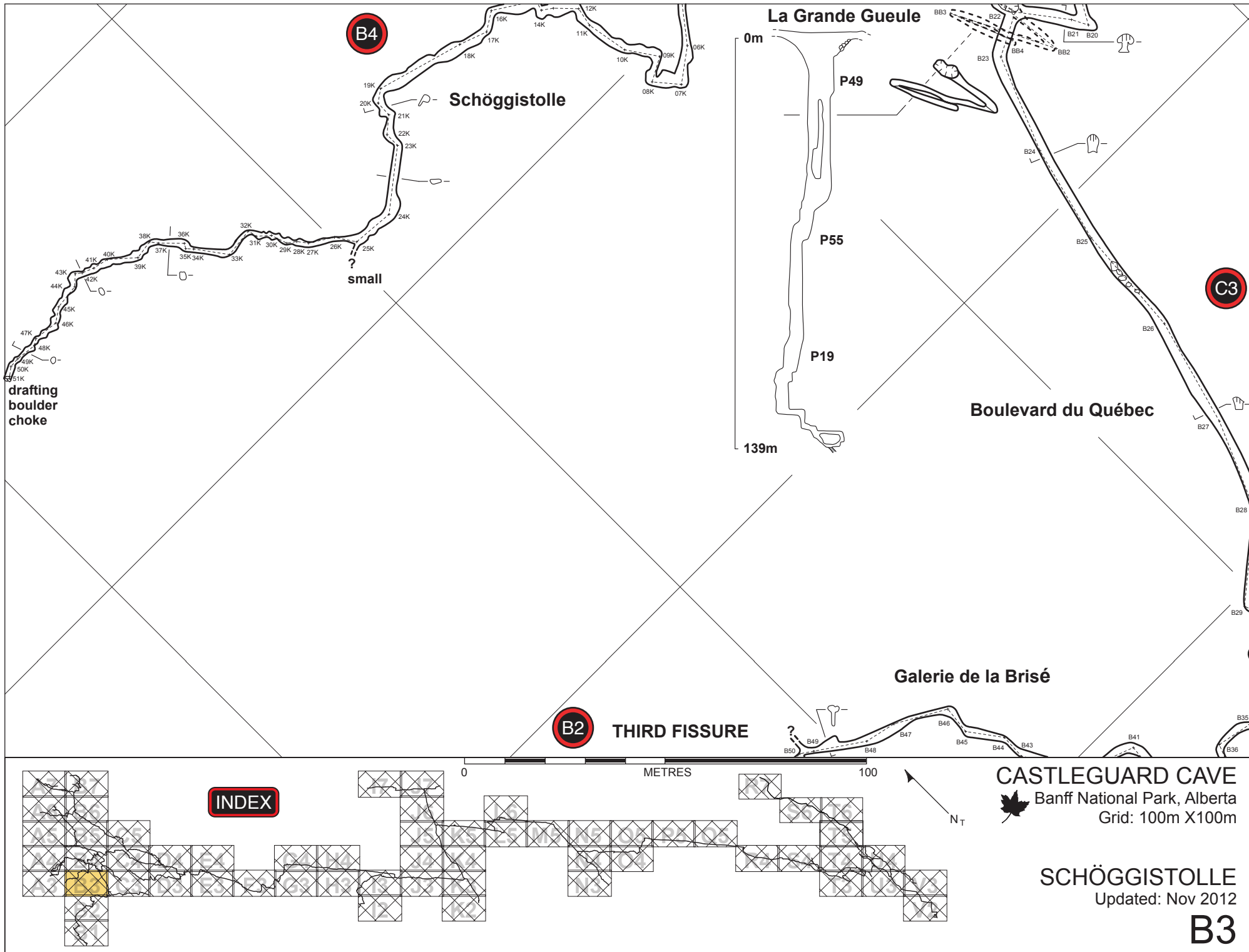
B1

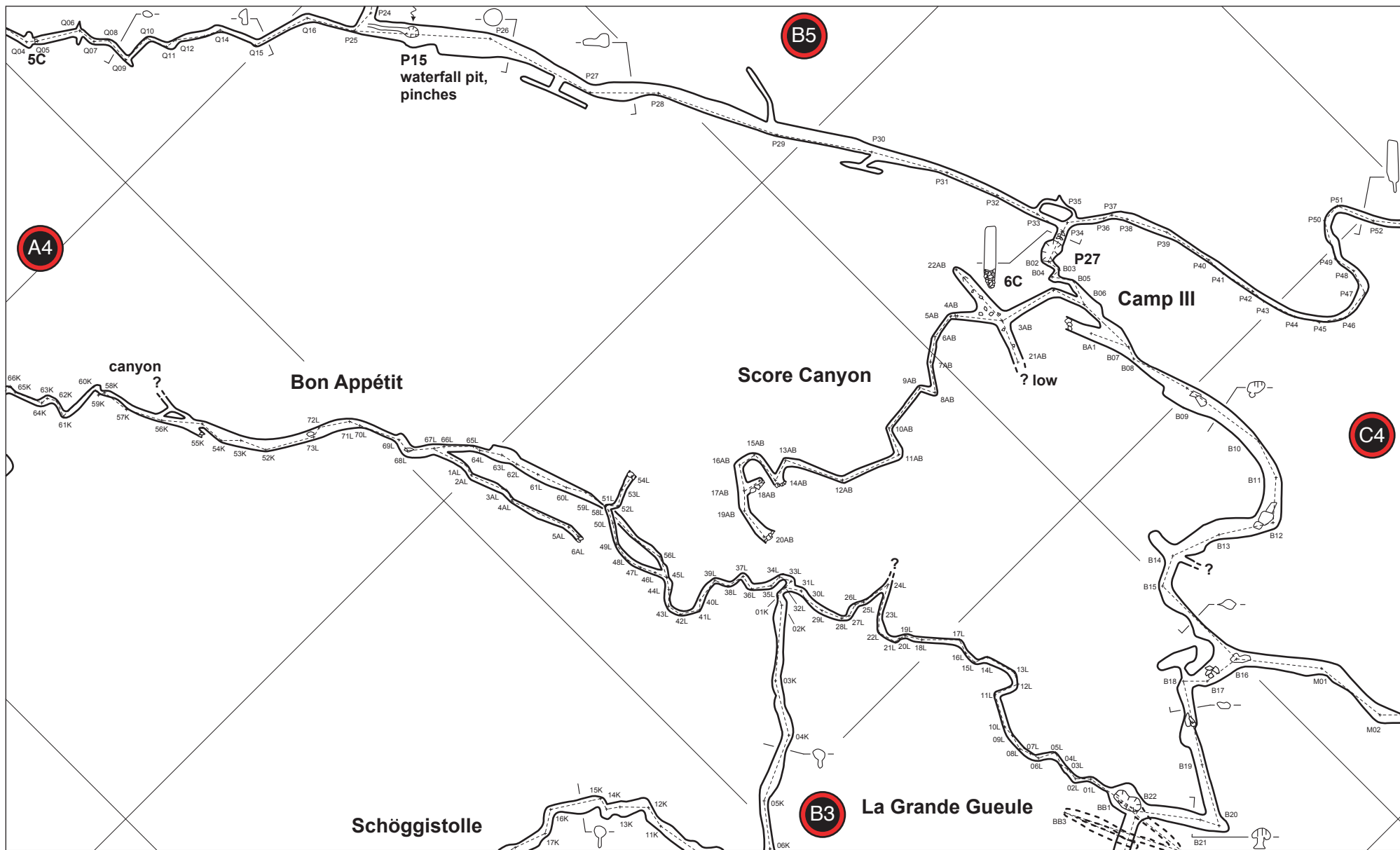


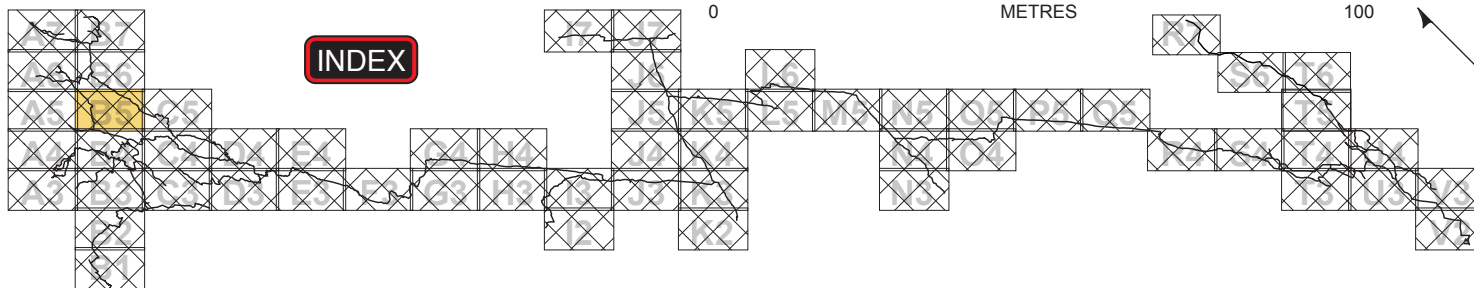
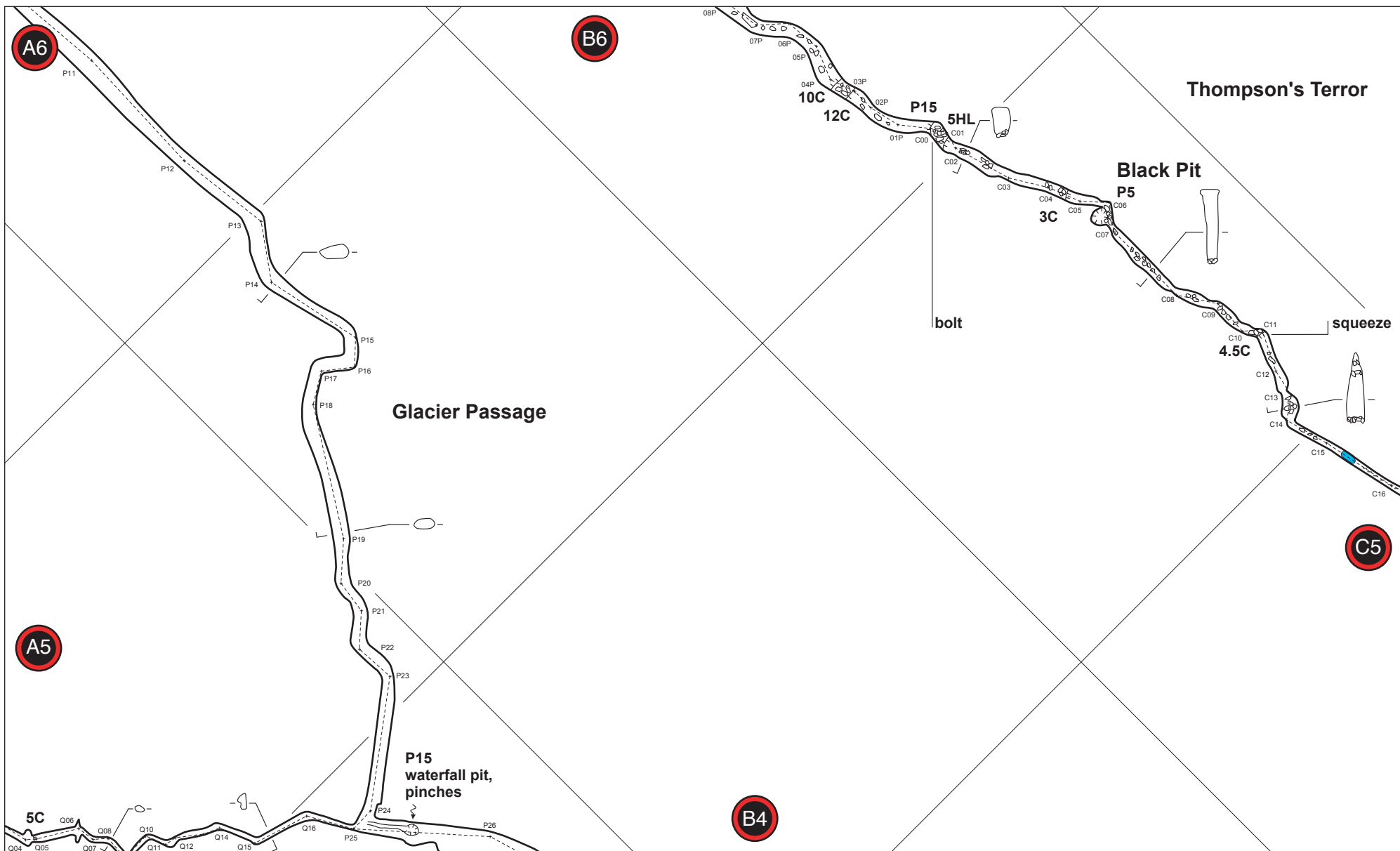
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

GALERIE DE LA BRISE
Updated: Nov 2012

B2



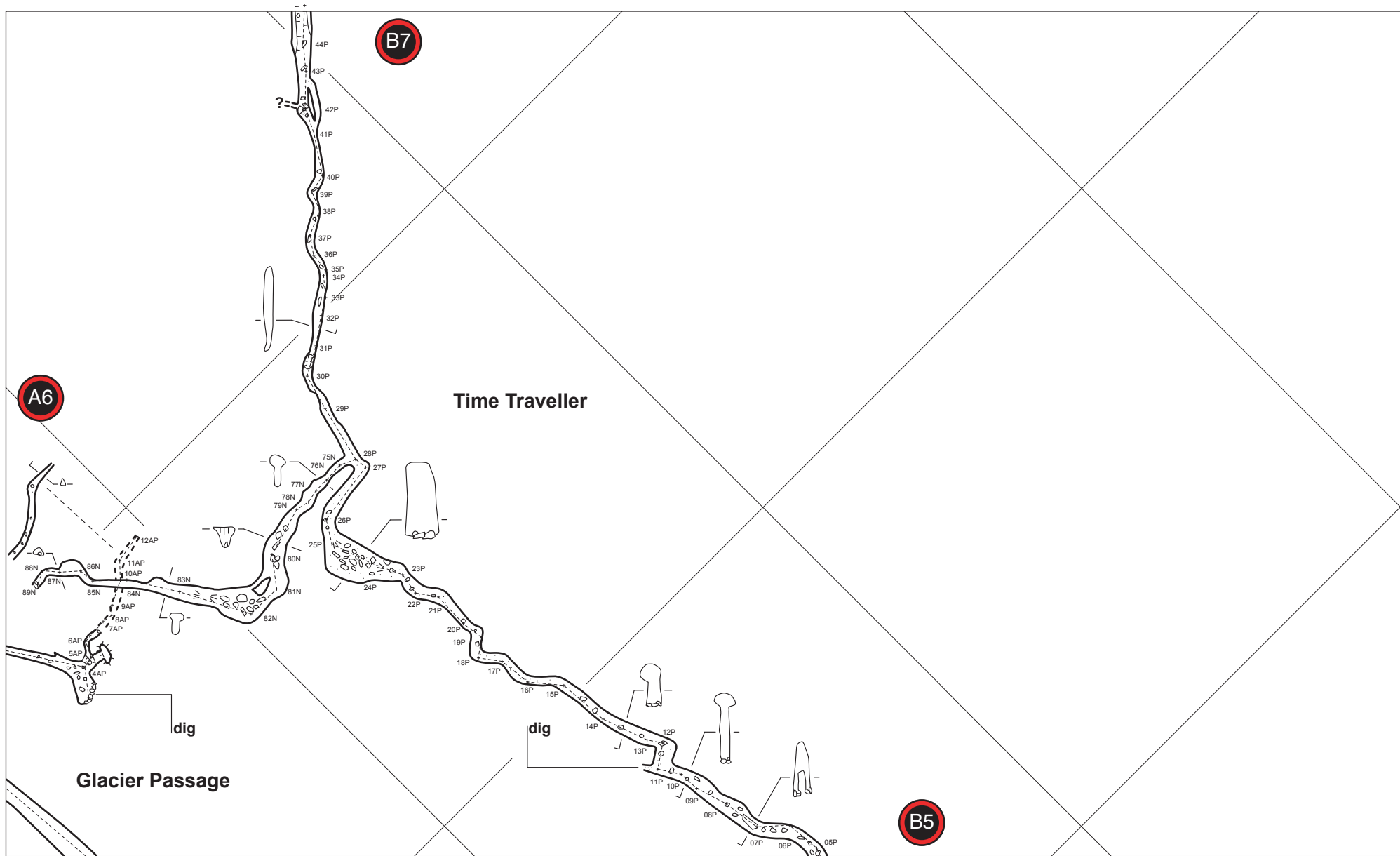




CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

GLACIER PASSAGE
Updated: Nov 2012

B5



INDEX

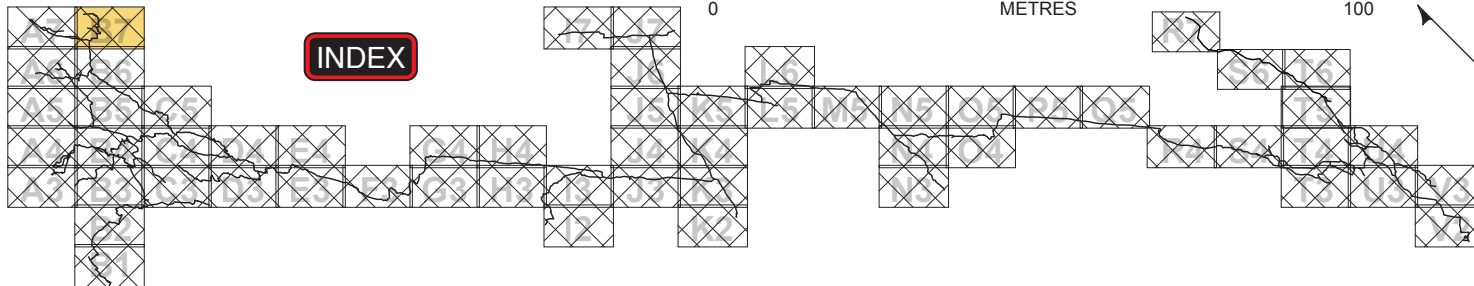
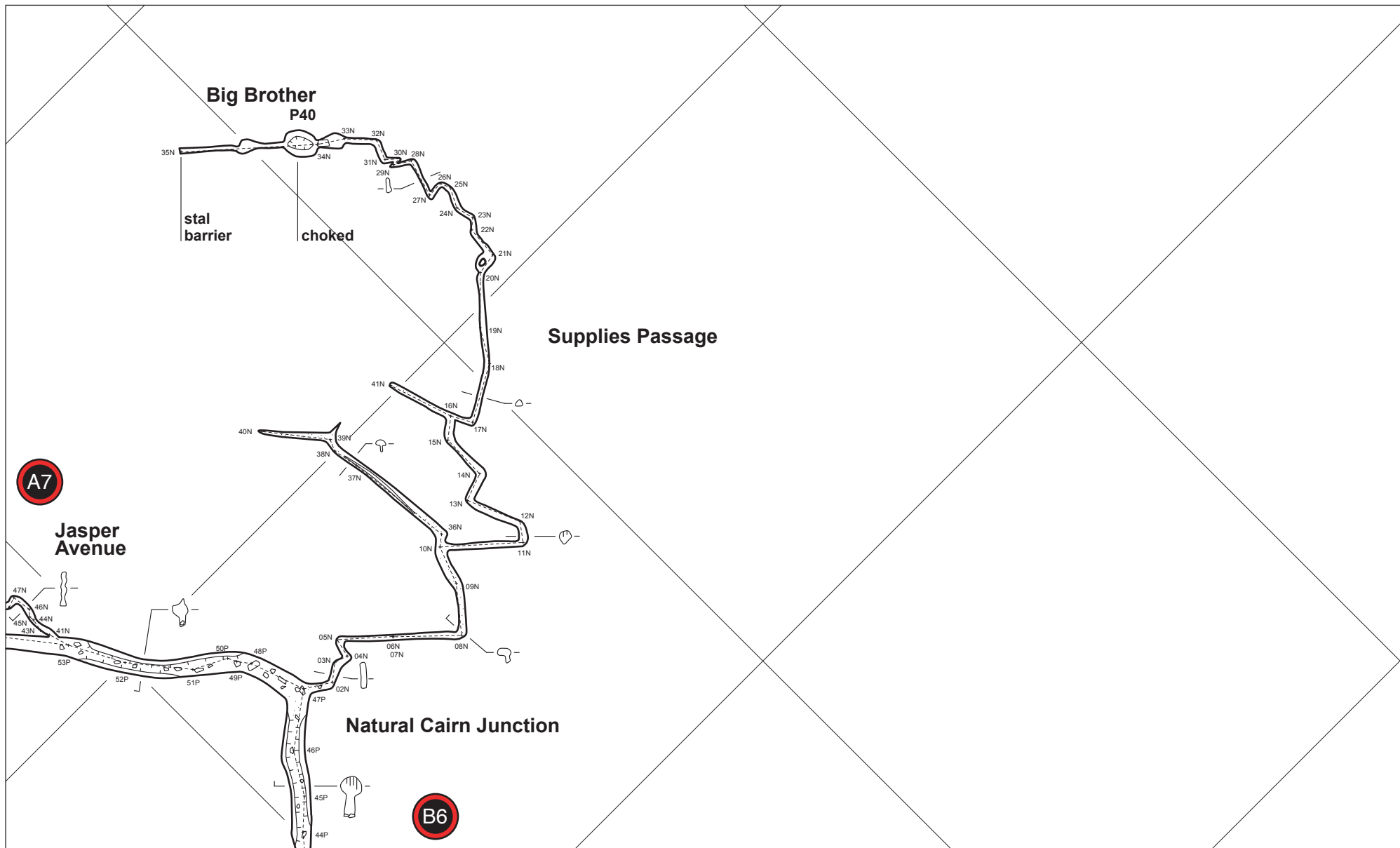
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CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid: 100m X100m

TIME TRAVELLER
 Updated: Nov 2012

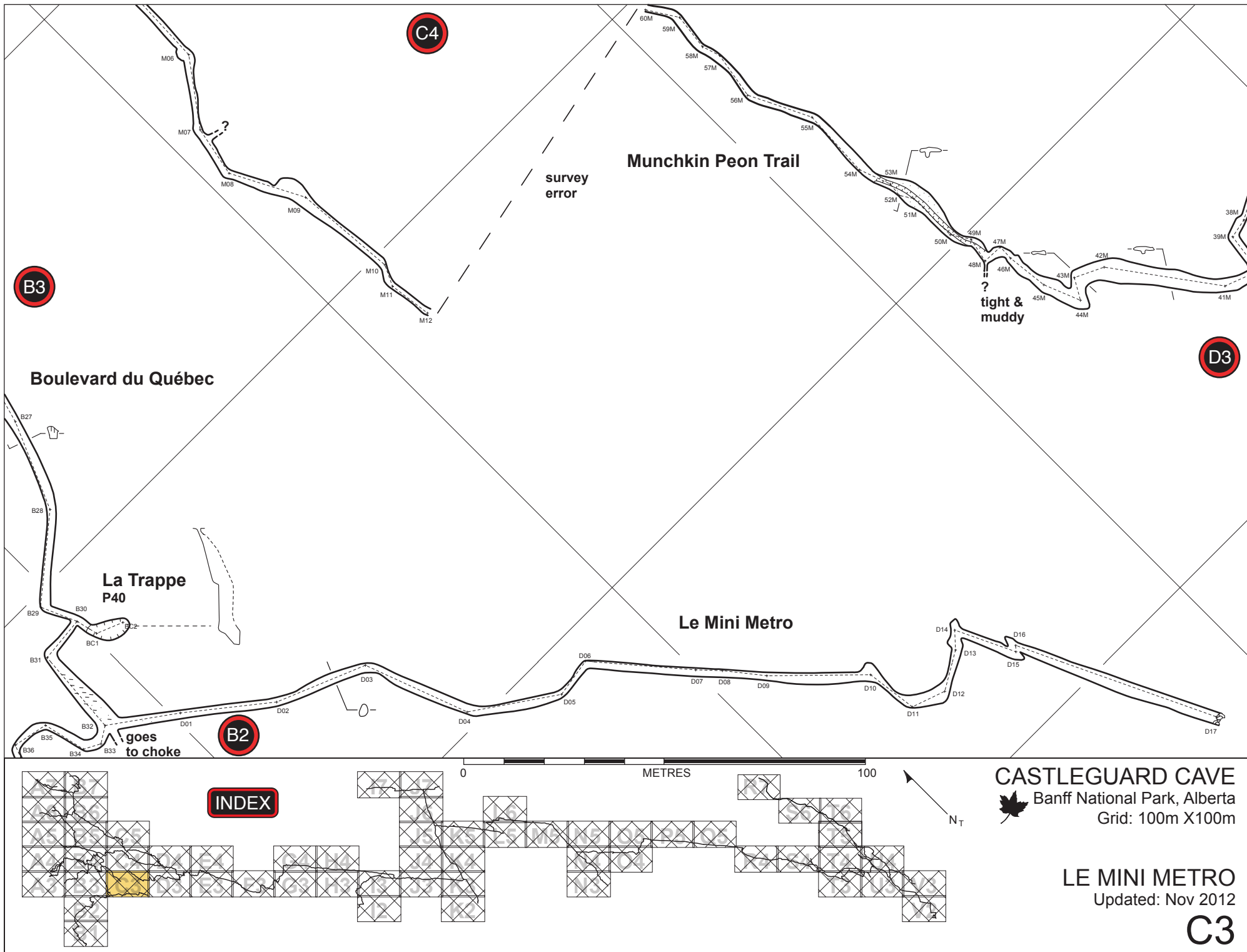
B6



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid: 100m X100m

SUPPLIES PASSAGE
 Updated: Nov 2012

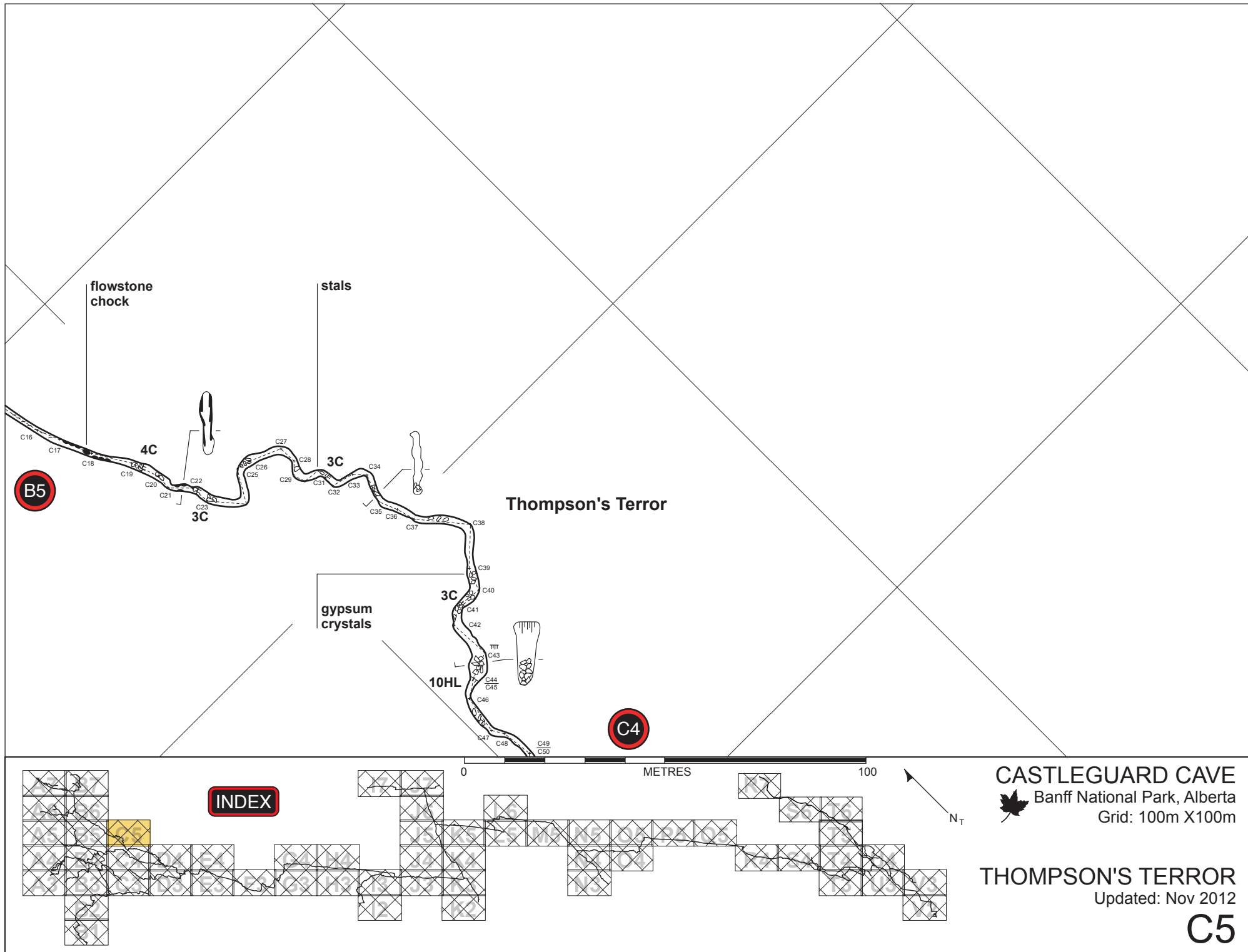
B7

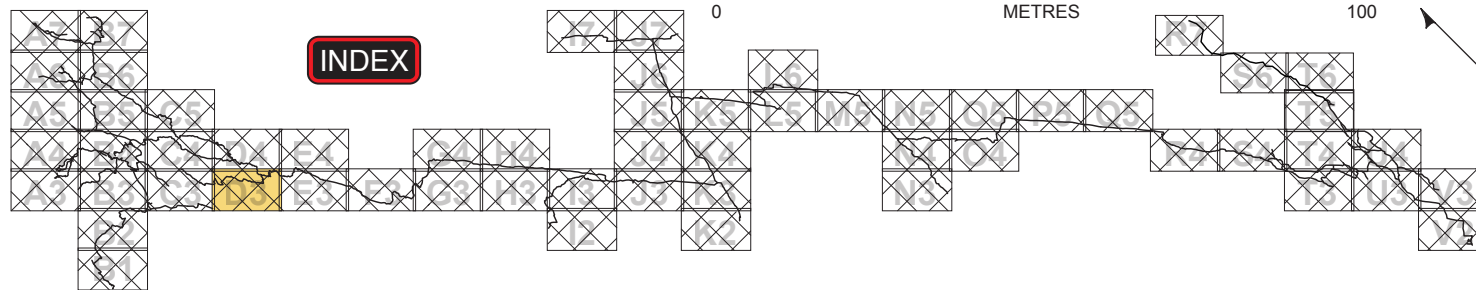
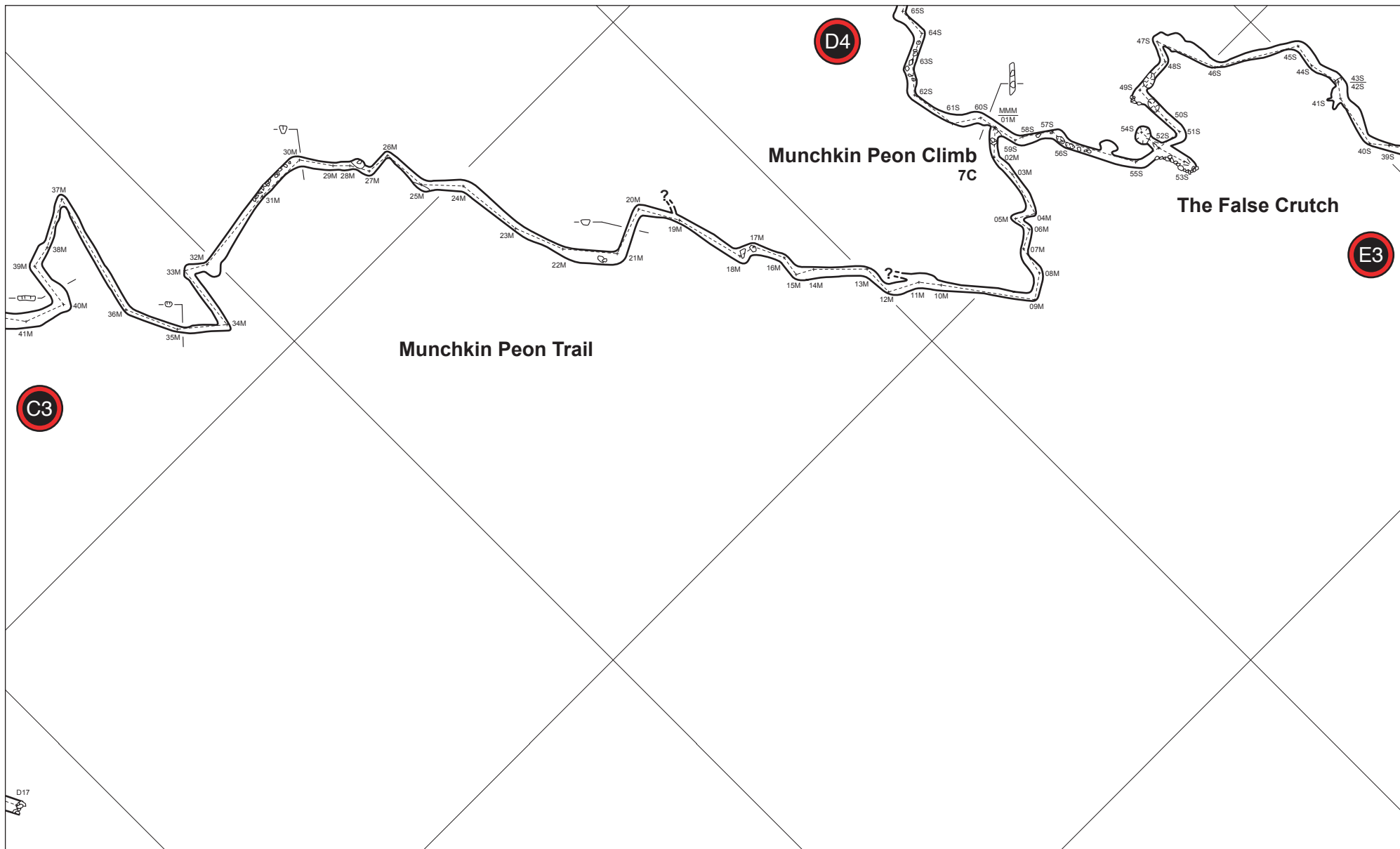


CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

LE MINI METRO
Updated: Nov 2012

C3

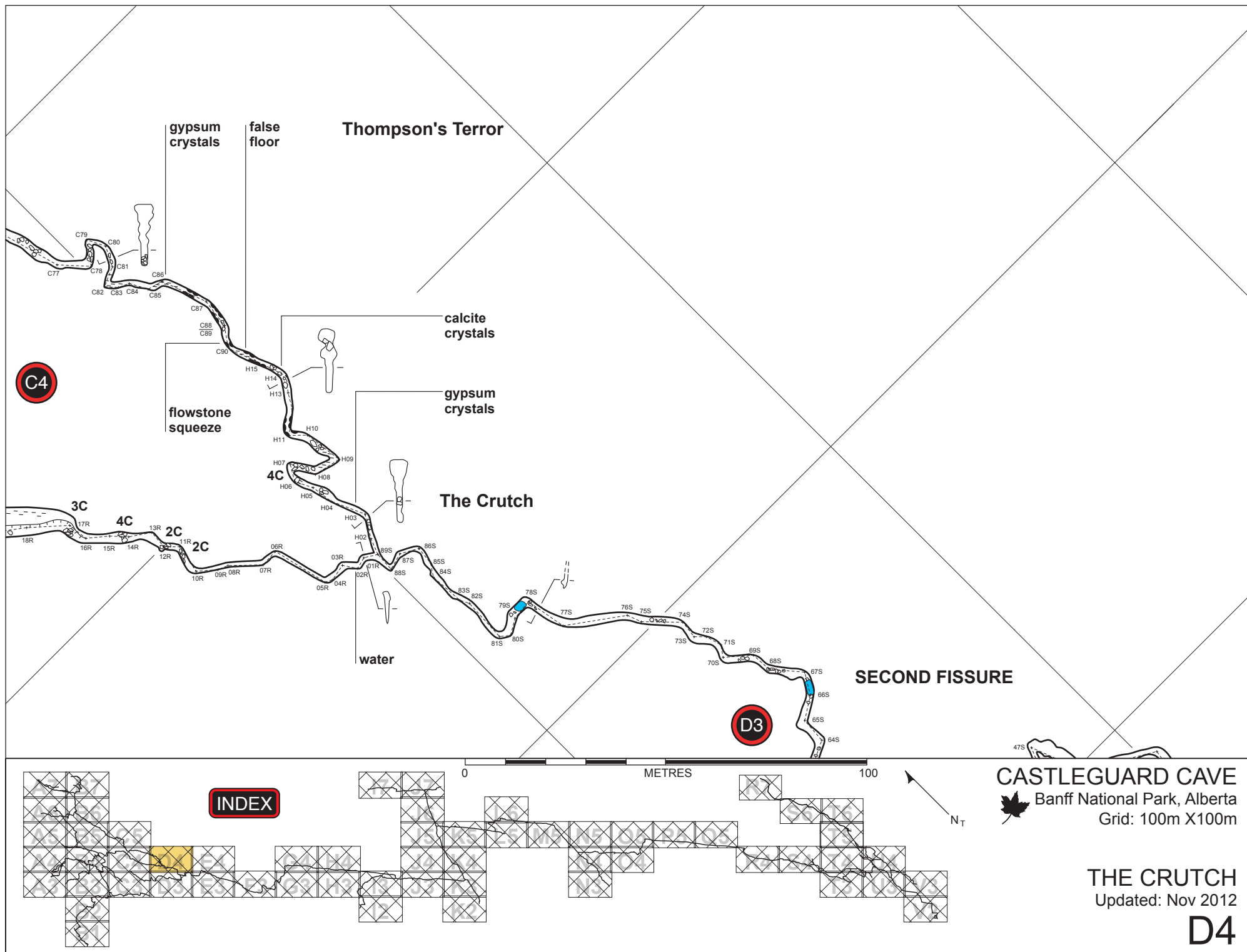


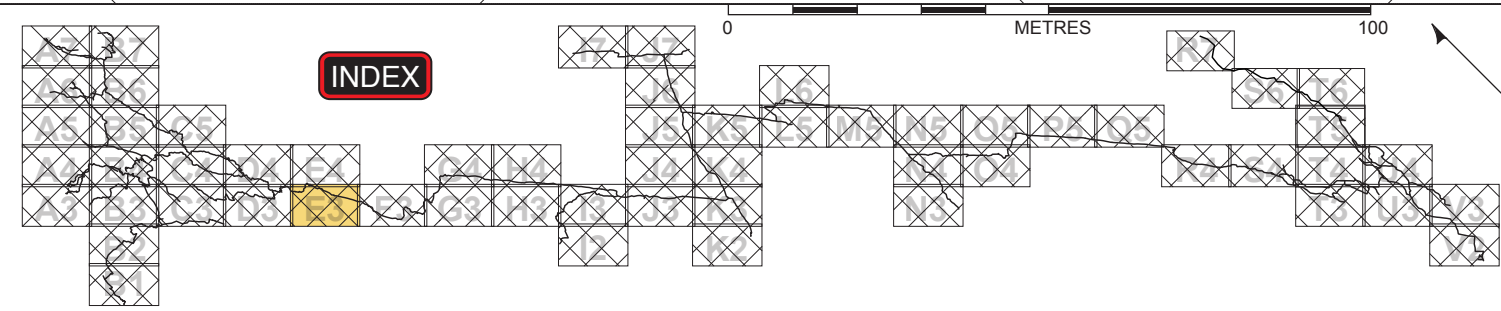
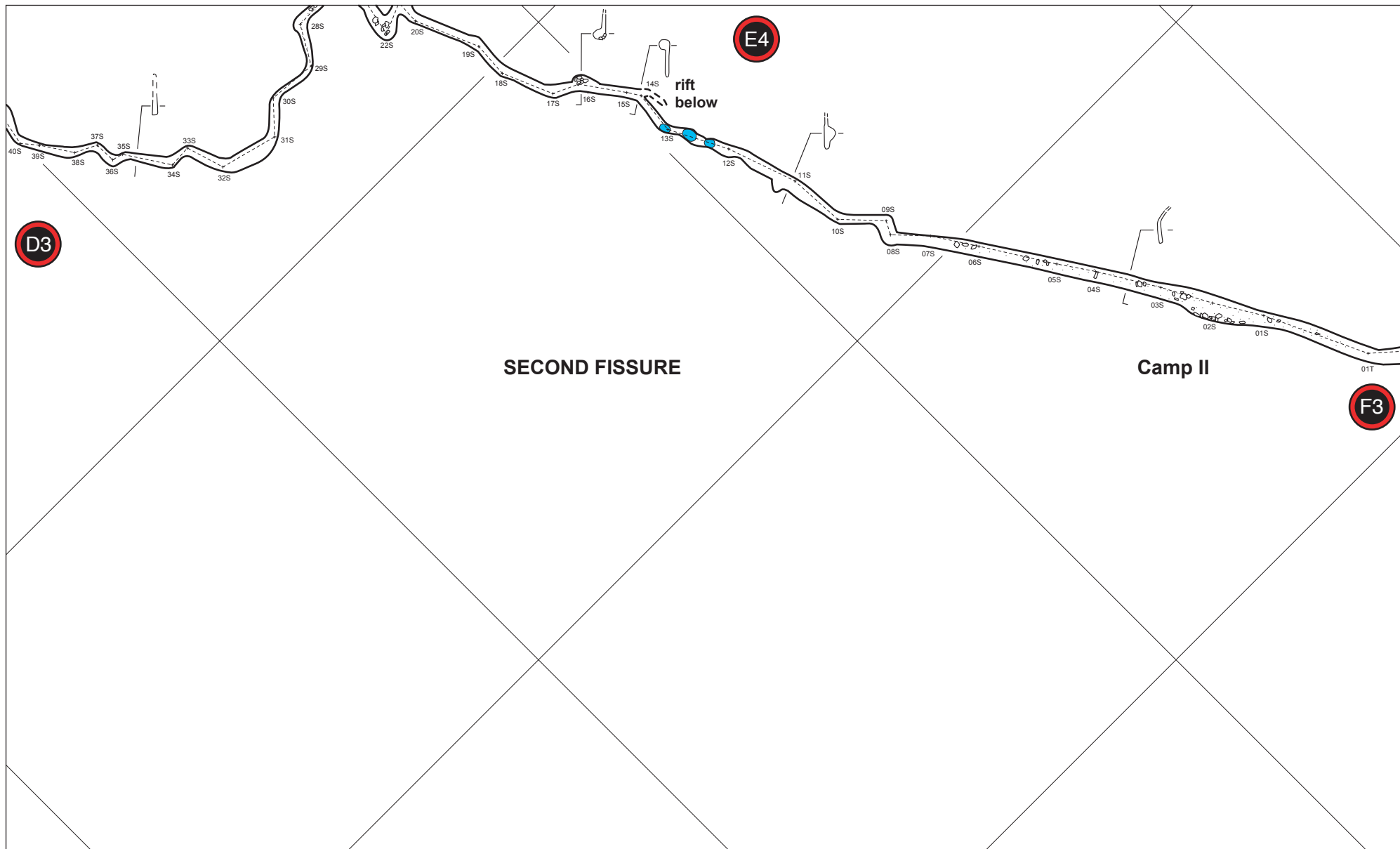


CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

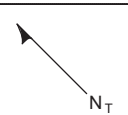
MUNCHKIN PEON TRAIL
Updated: Nov 2012

D3





0 METRES 100



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

CAMP II
Updated: Nov 2012
E3

SECOND FISSURE

cubic
pearls

E3

INDEX

0

METRES

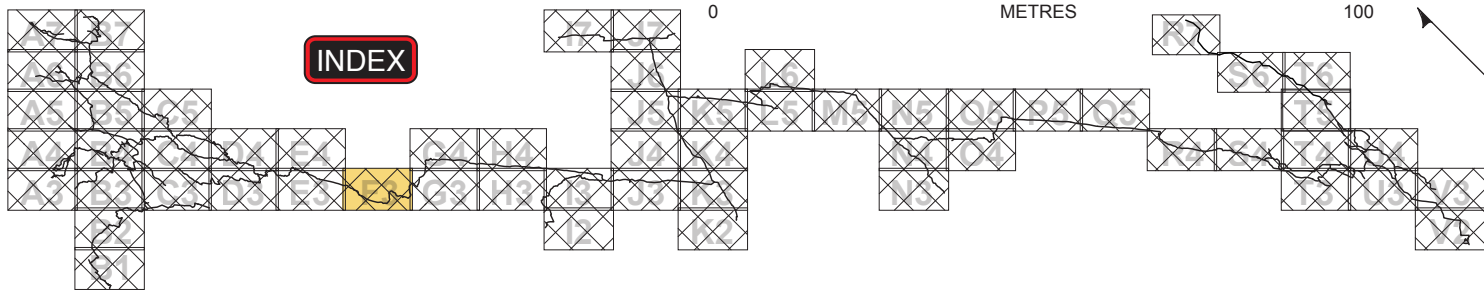
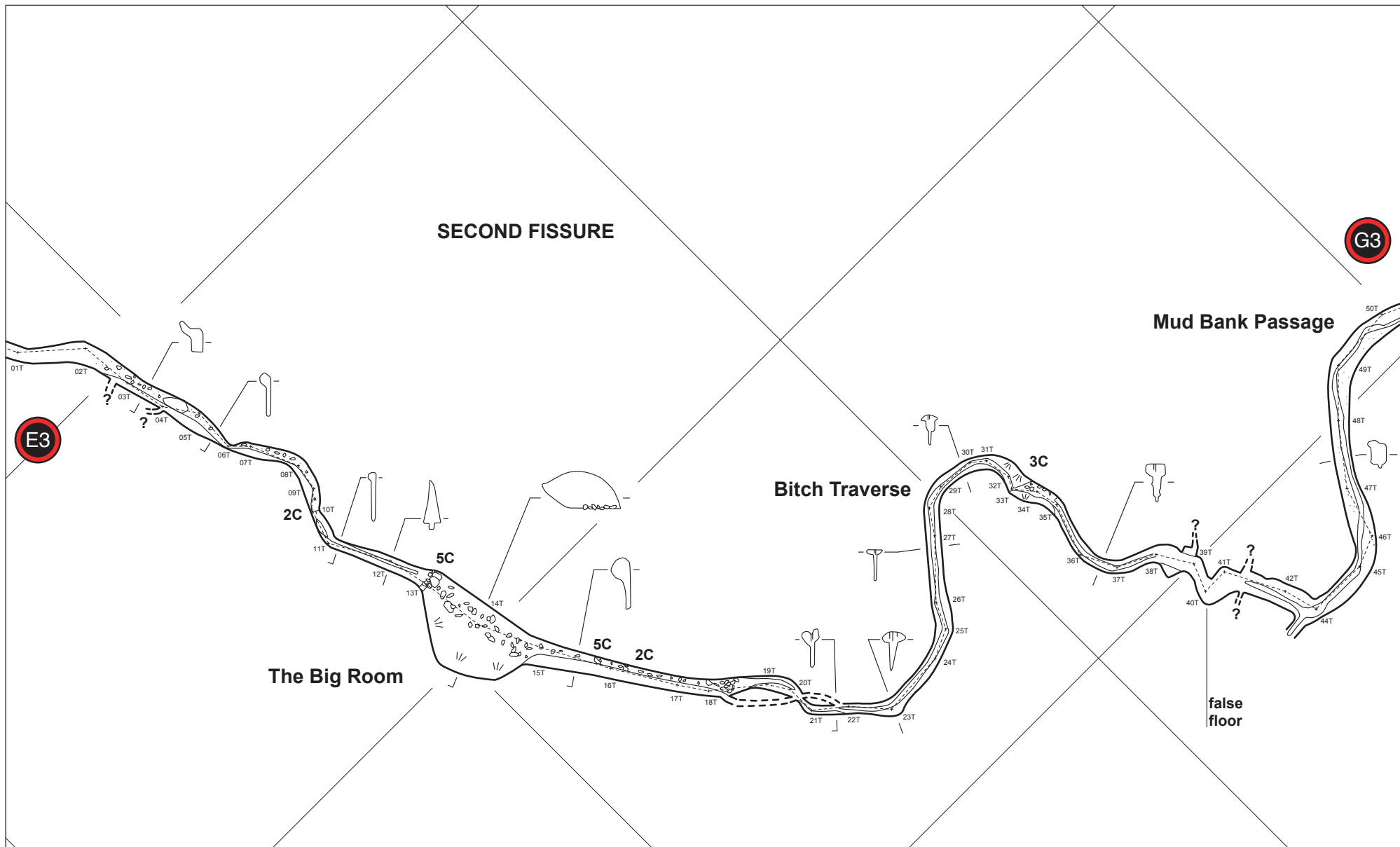
100

N_T

CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

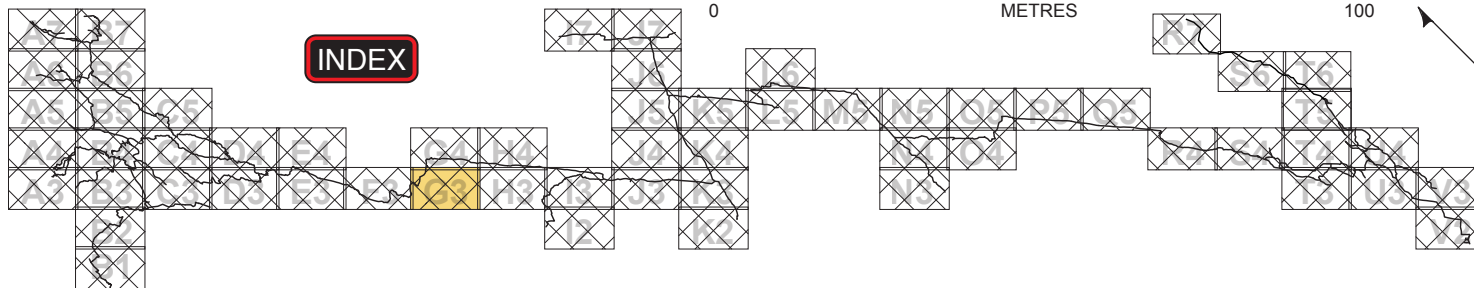
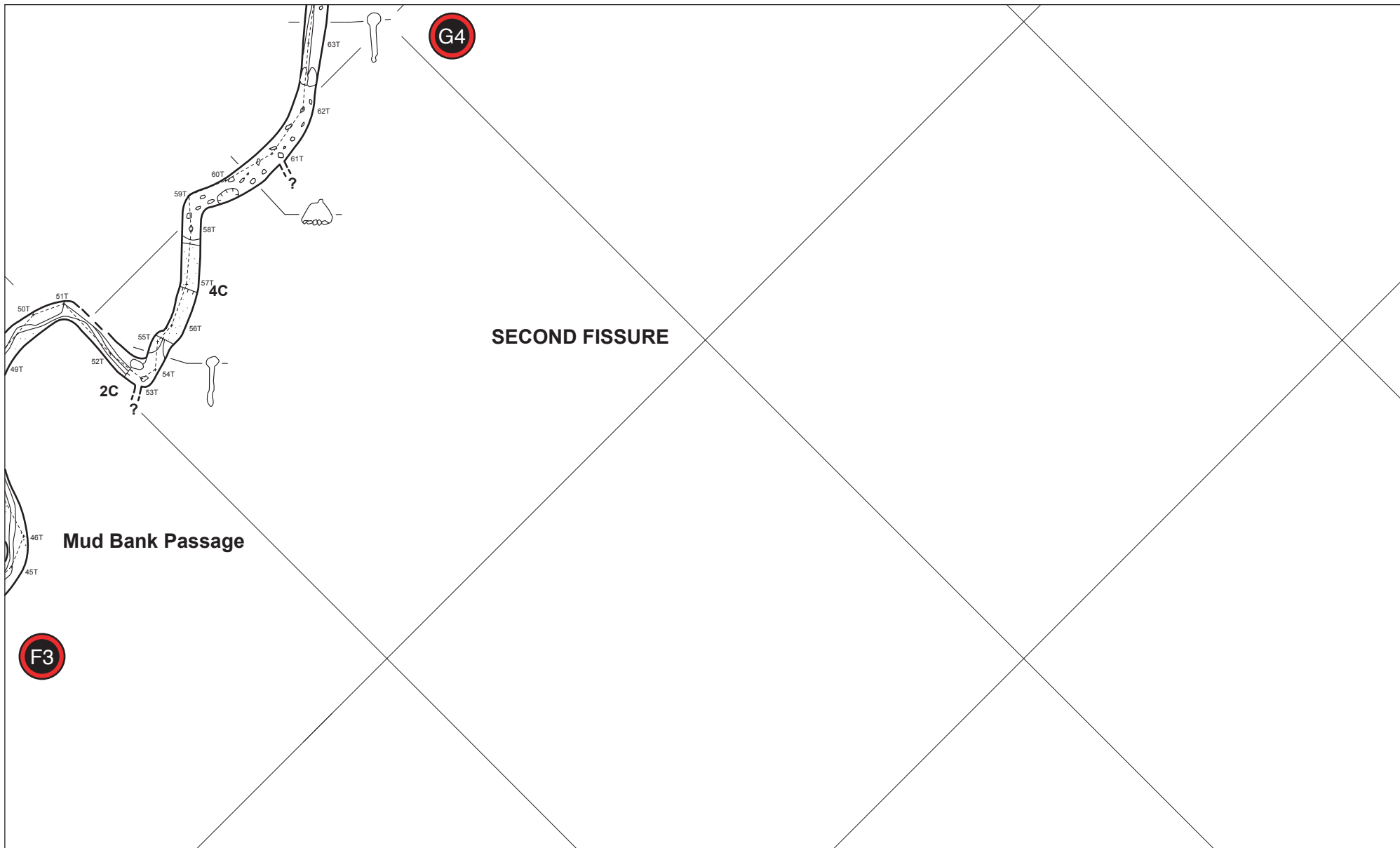
CUBIC PEARLS
Updated: Nov 2012

E4



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

THE BIG ROOM
Updated: Nov 2012
F3



0 METRES 100



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

MUD BANK PASSAGE
Updated: Nov 2012

G3

SECOND FISSURE

false
floor

false
floor

crawl
under

H4

Slickenslides

6C

G3

0

METRES

100

N_T

CASTLEGUARD CAVE

Banff National Park, Alberta

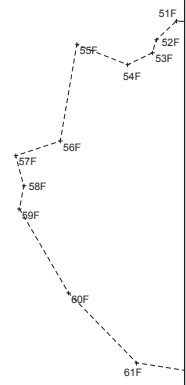
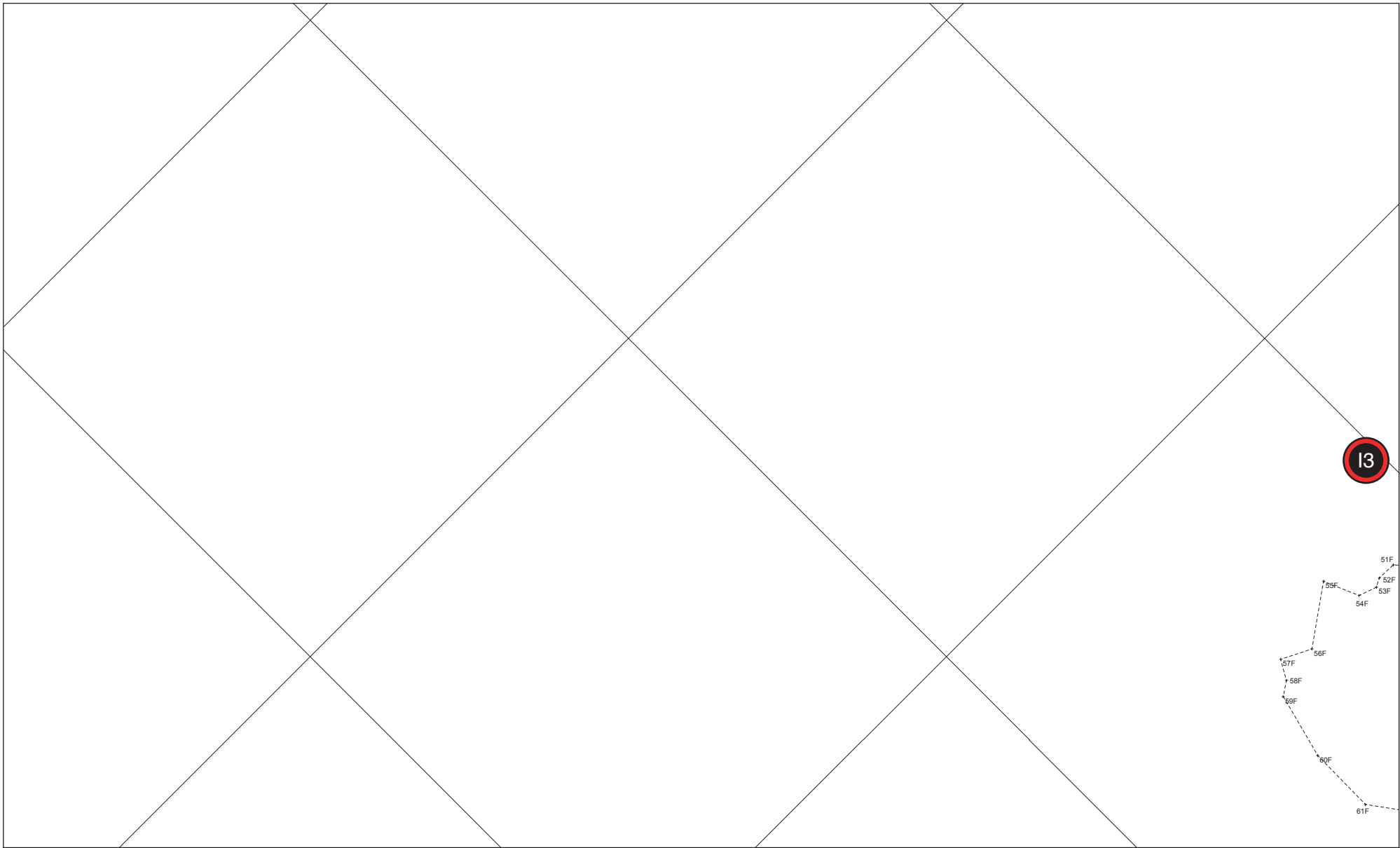
Grid: 100m X100m

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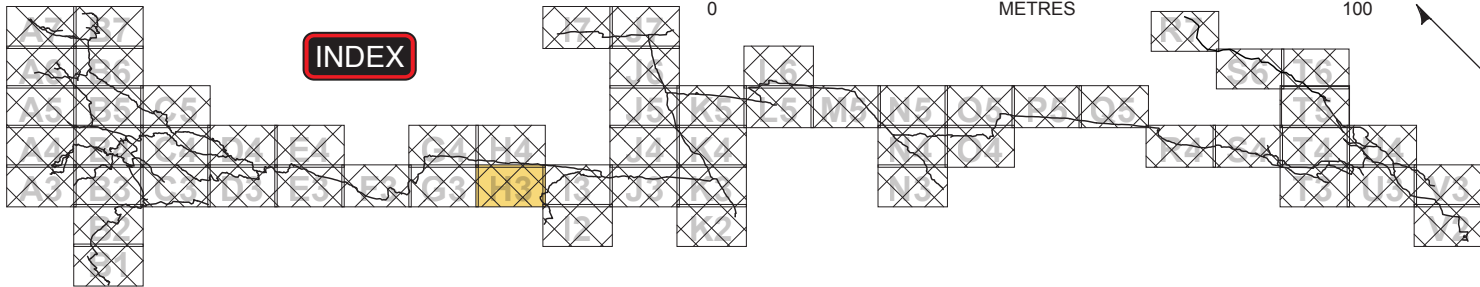
SLICKENSLIDES

Updated: Nov 2012

G4



INDEX



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

F7 MIDDLE
Updated: Nov 2012
H3

SECOND FISSURE

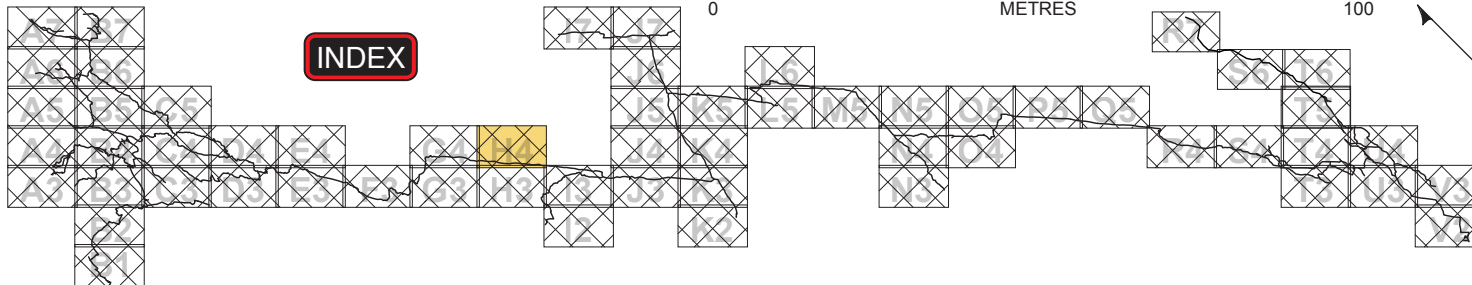
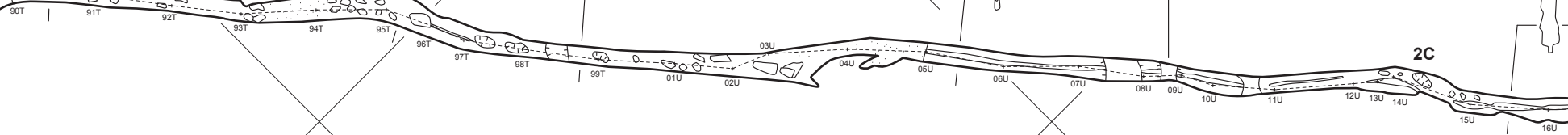
G4

I3

crawl
under

6C

2C

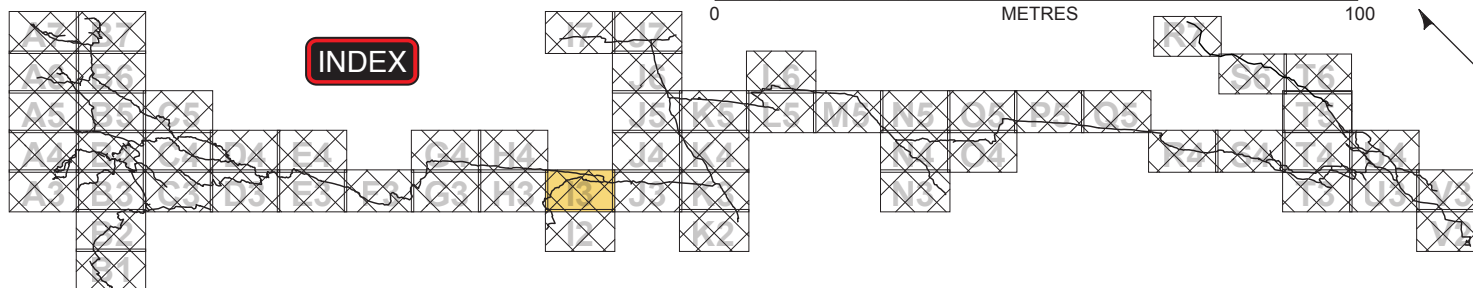
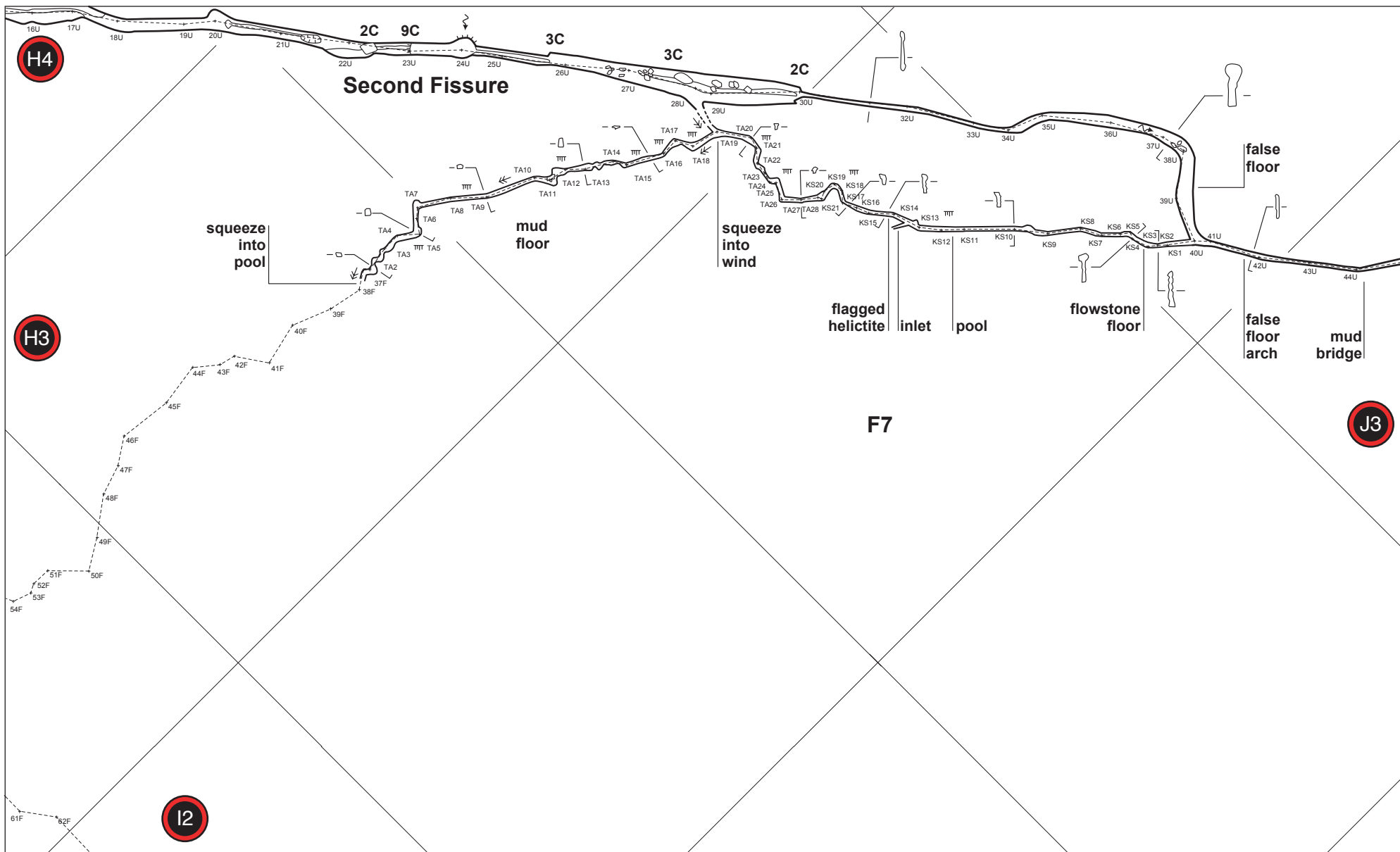


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CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

SECOND FISSURE
Updated: Nov 2012

H4



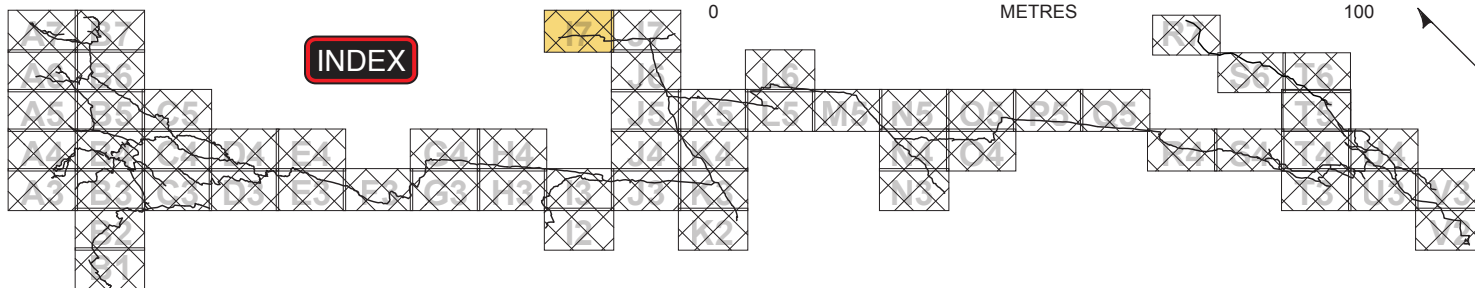
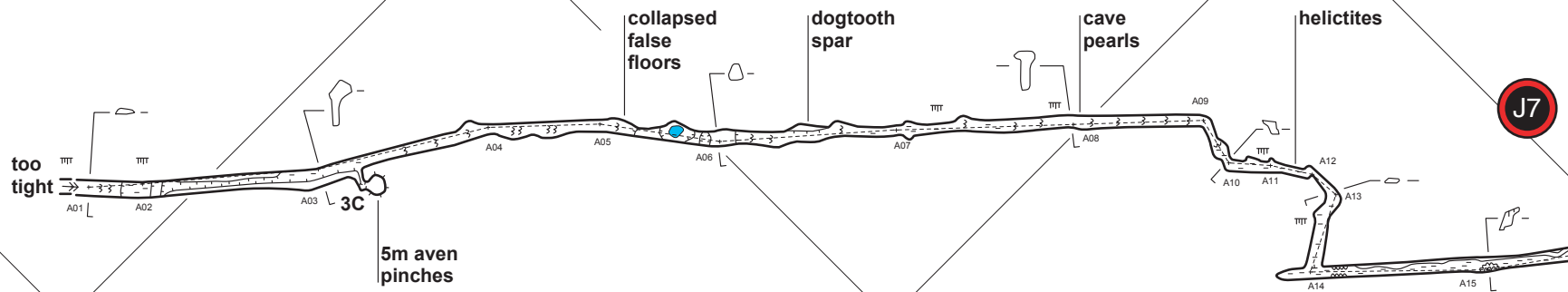
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CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

F7
Updated: Nov 2012

I3

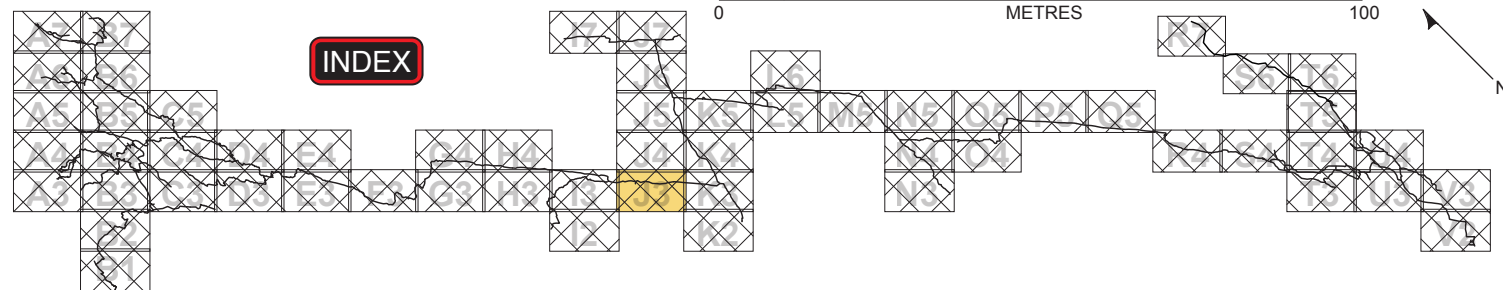
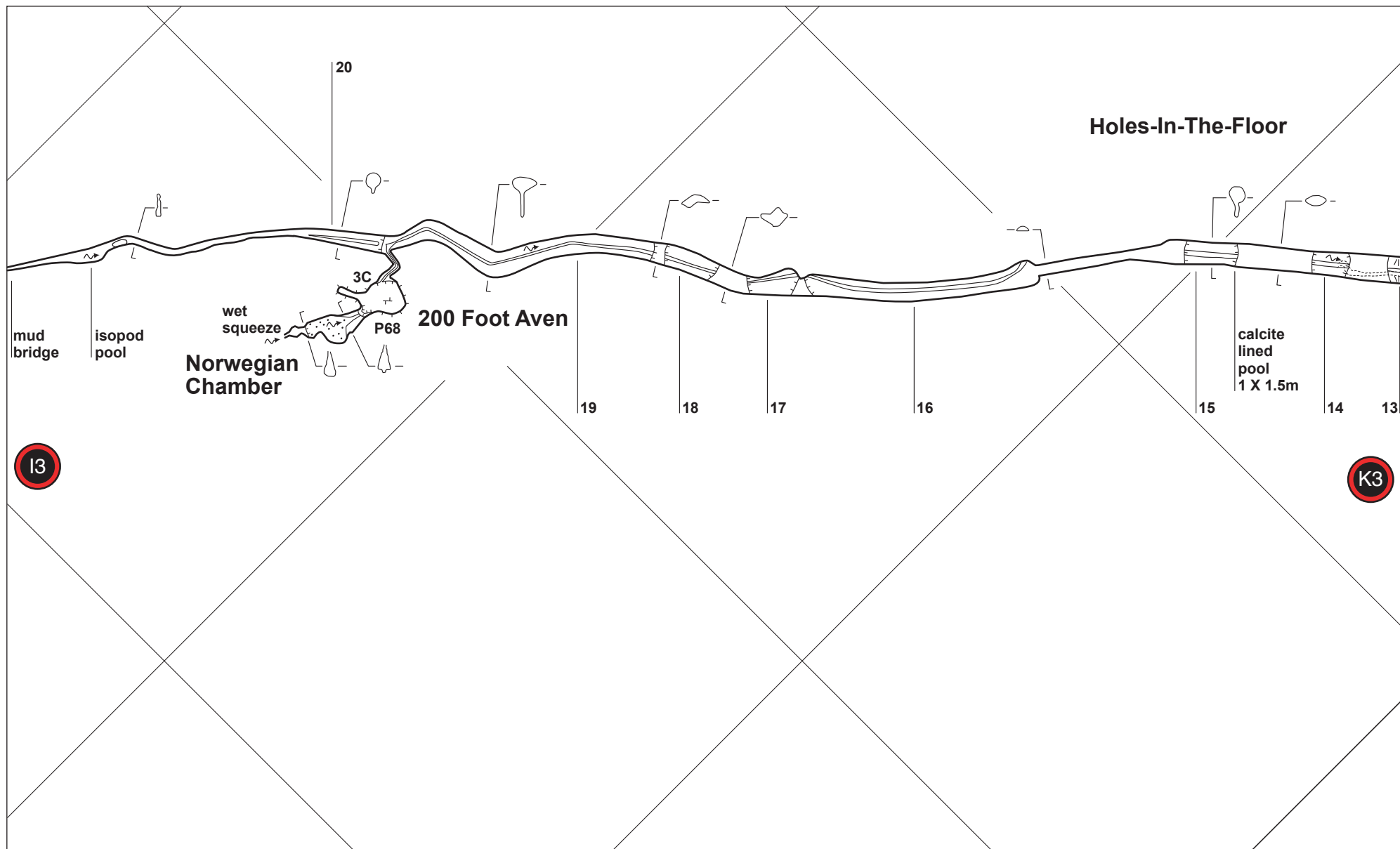


0 METRES 100



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid: 100m X100m

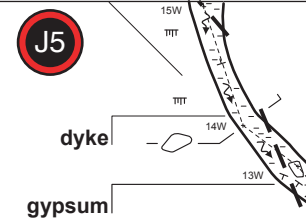
THE NEXT SCENE [West]
 Updated: Nov 2012



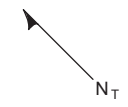
CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid: 100m X100m

200 FOOT AVEN
 Updated: Nov 2012

J3



K4

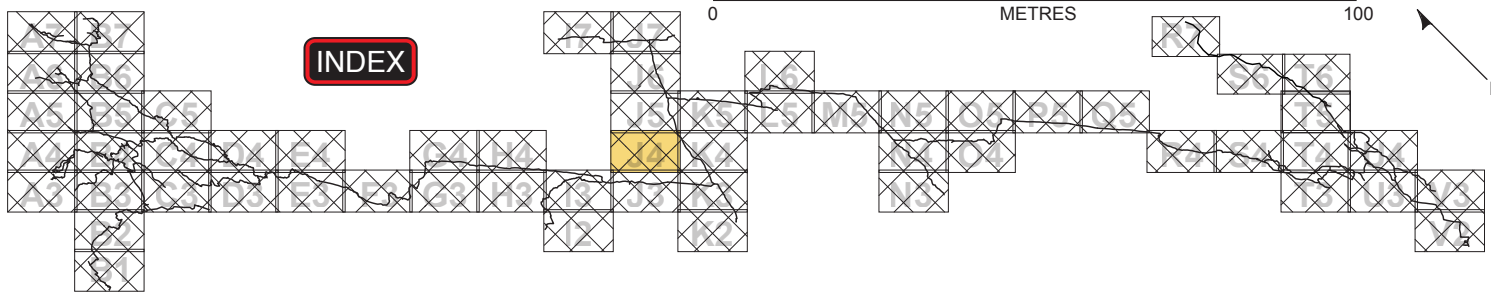


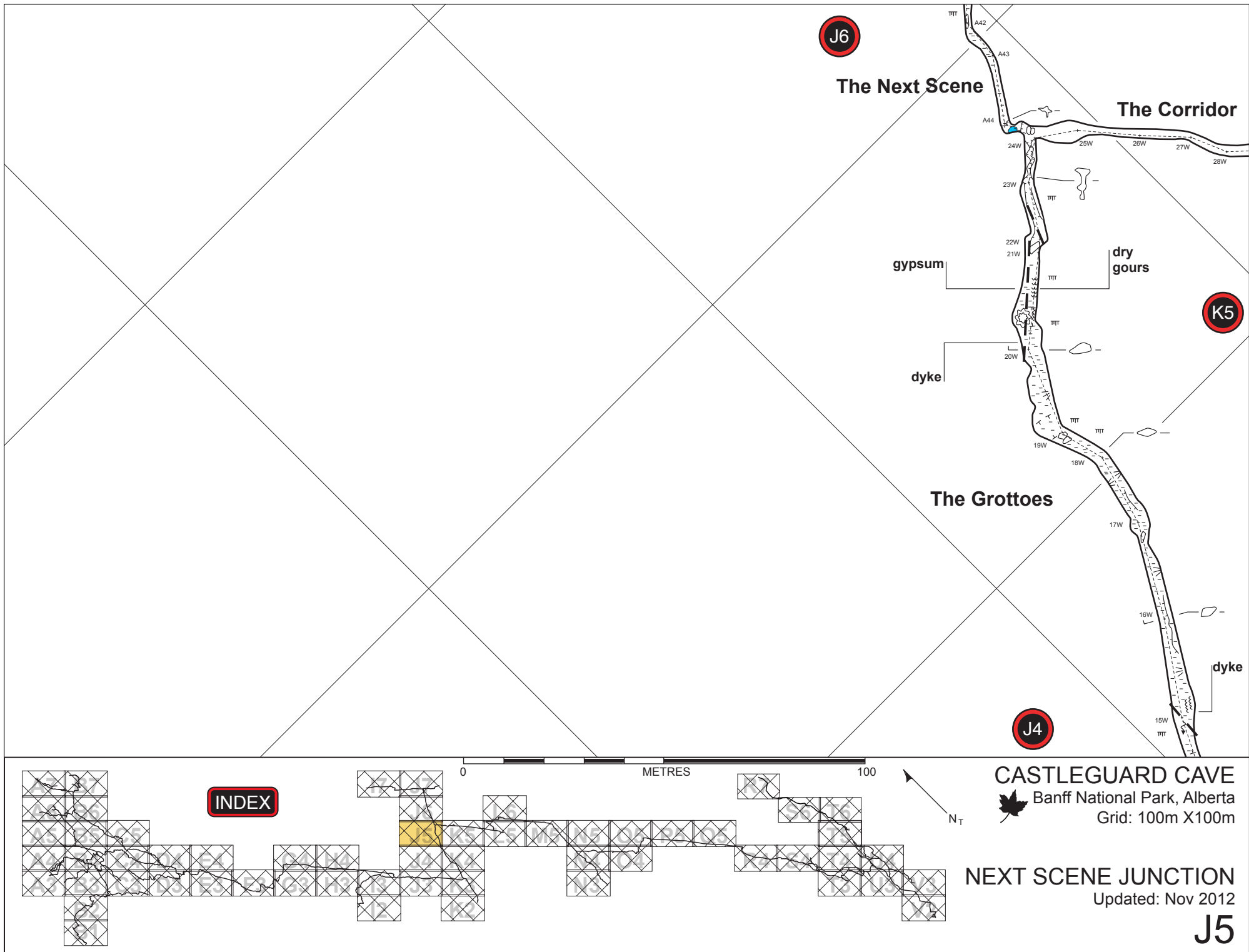
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

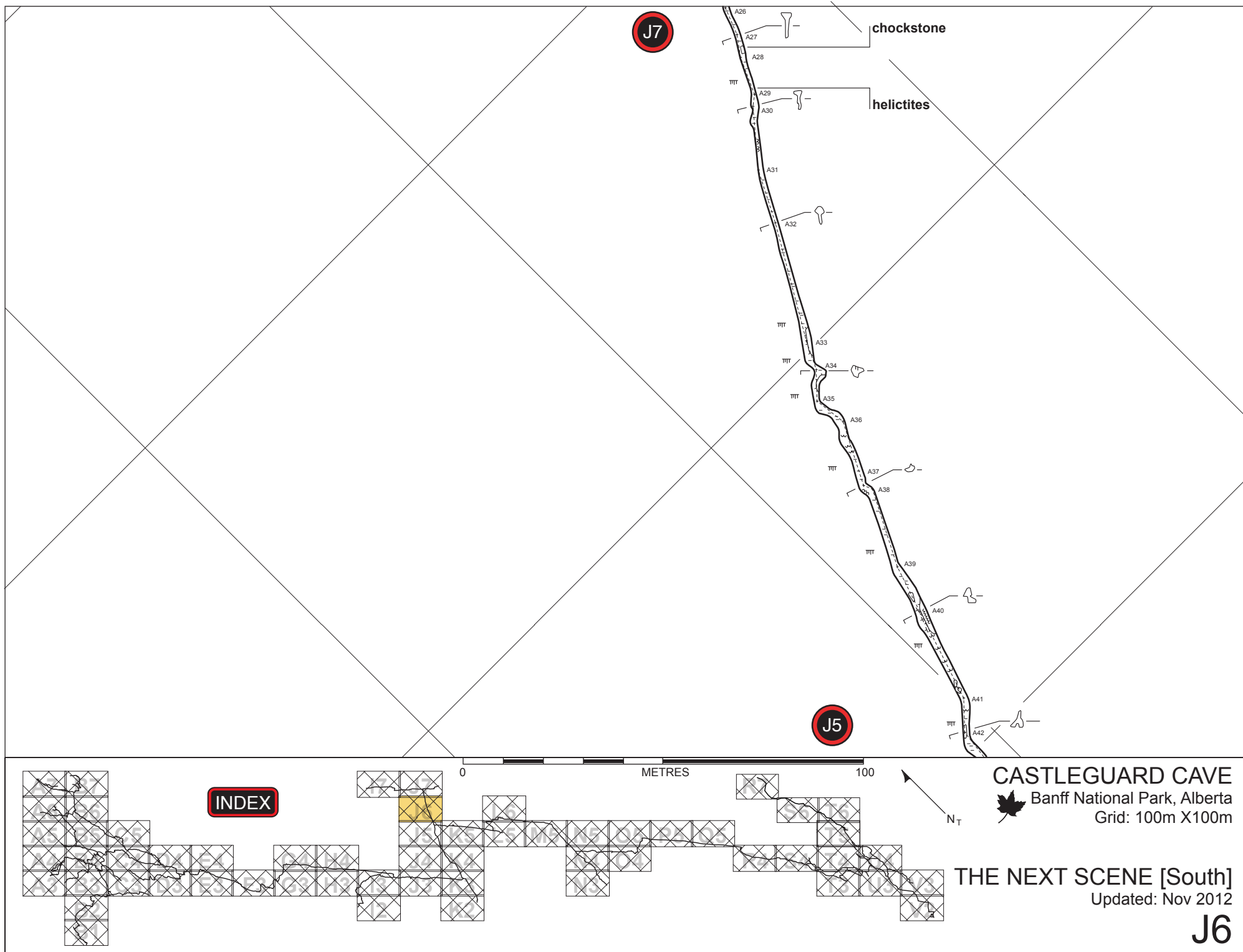
THE GROTTOS [North]
Updated: Nov 2012

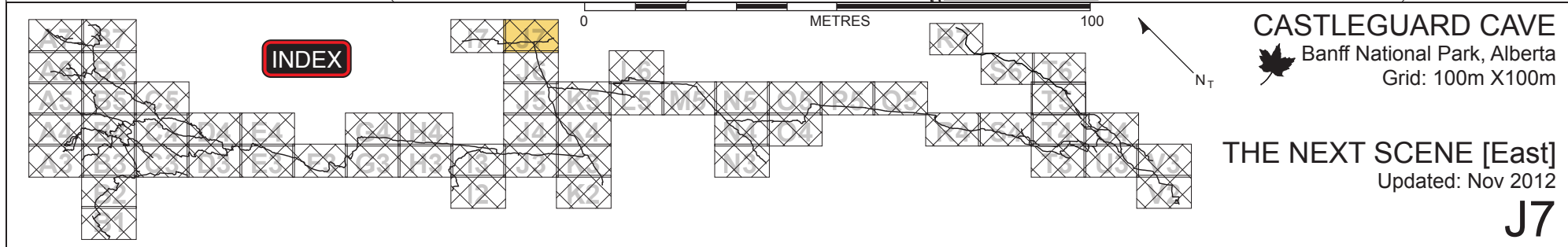
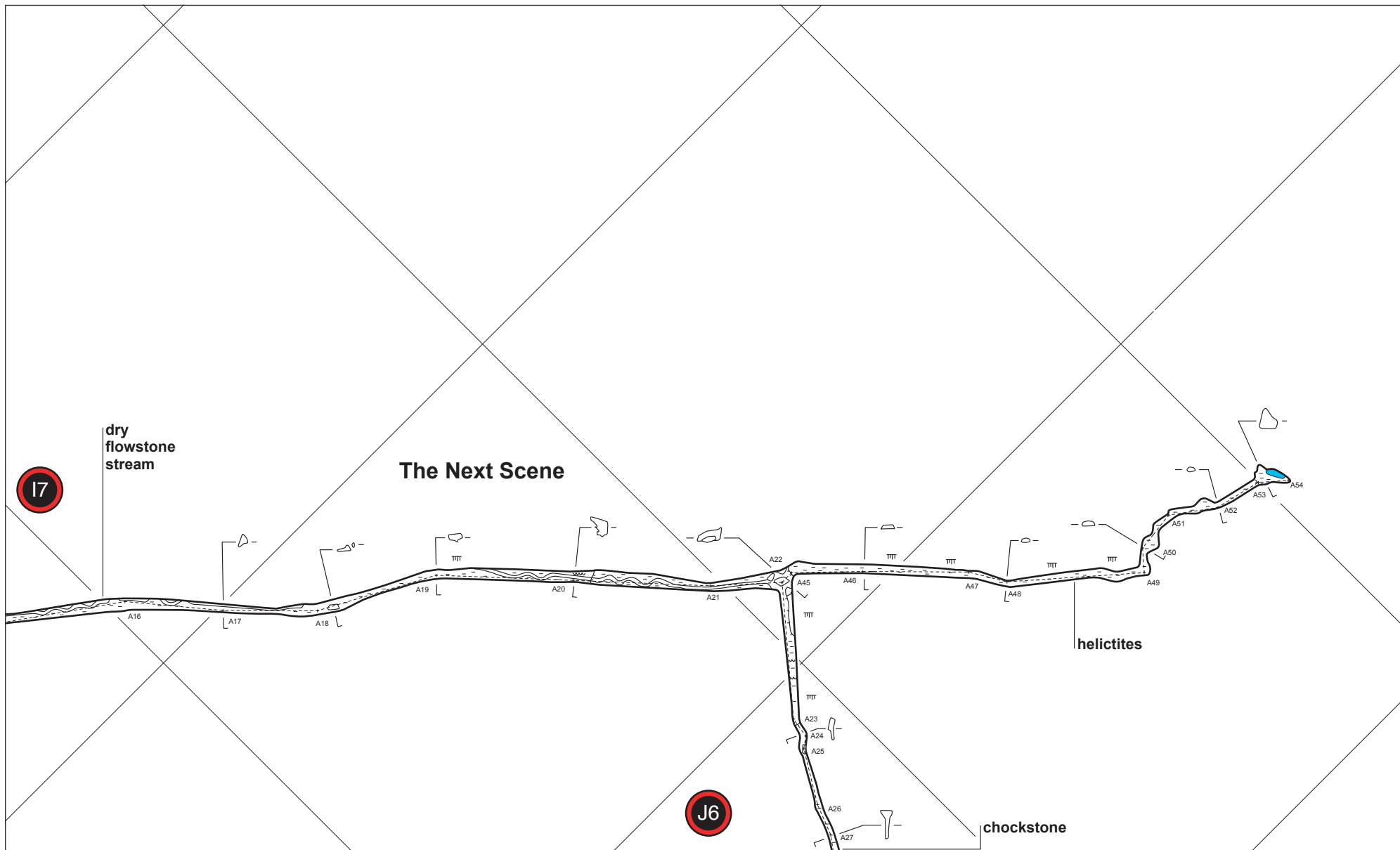
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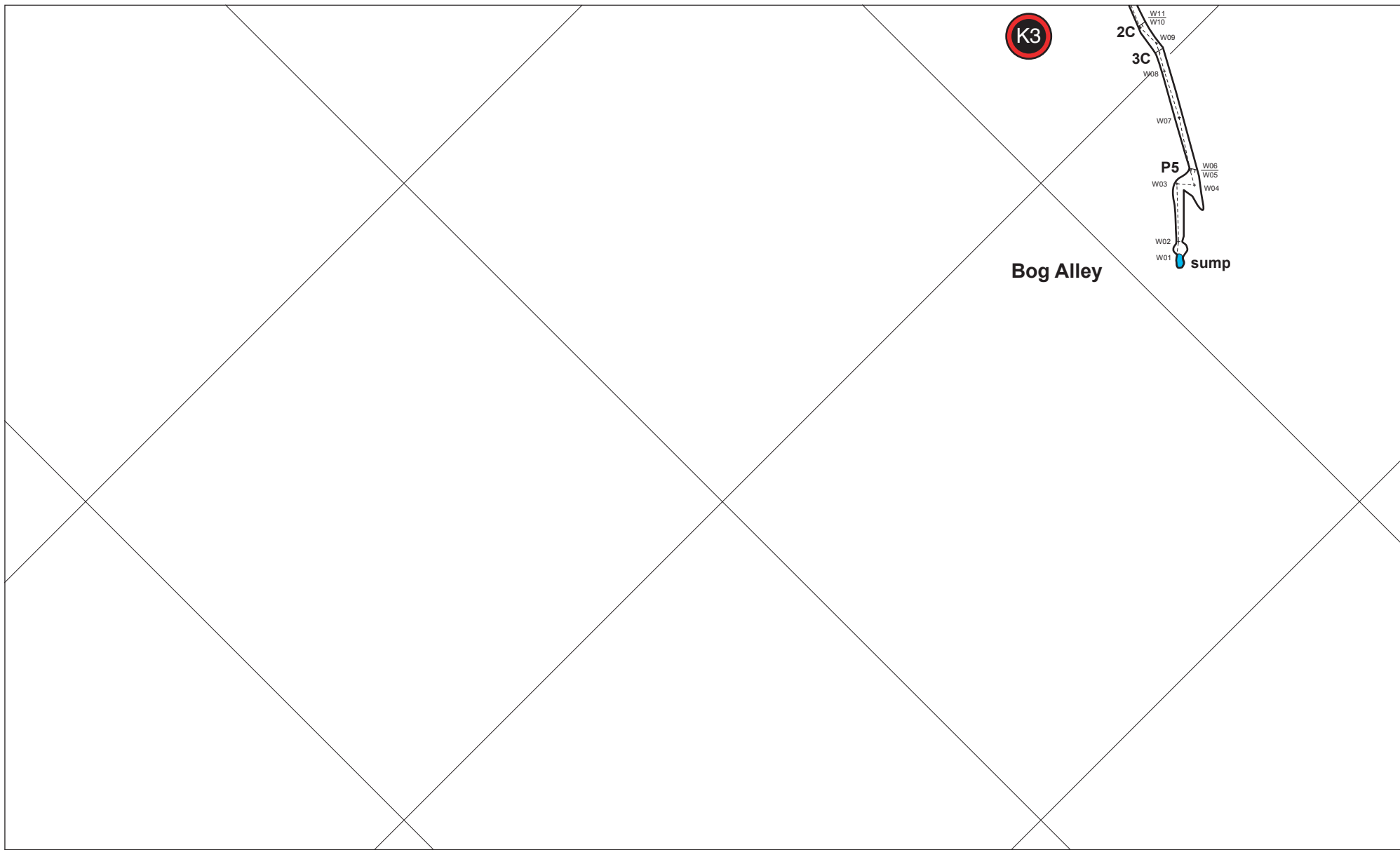
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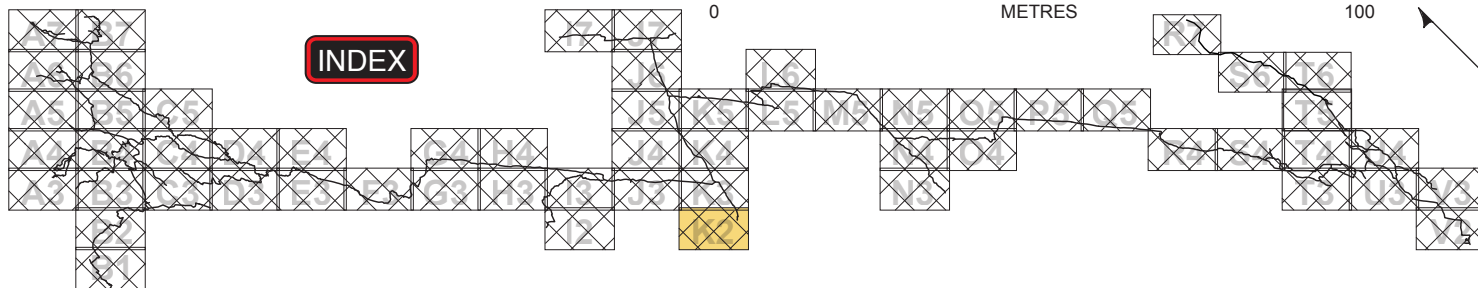




Bog Alley

K3

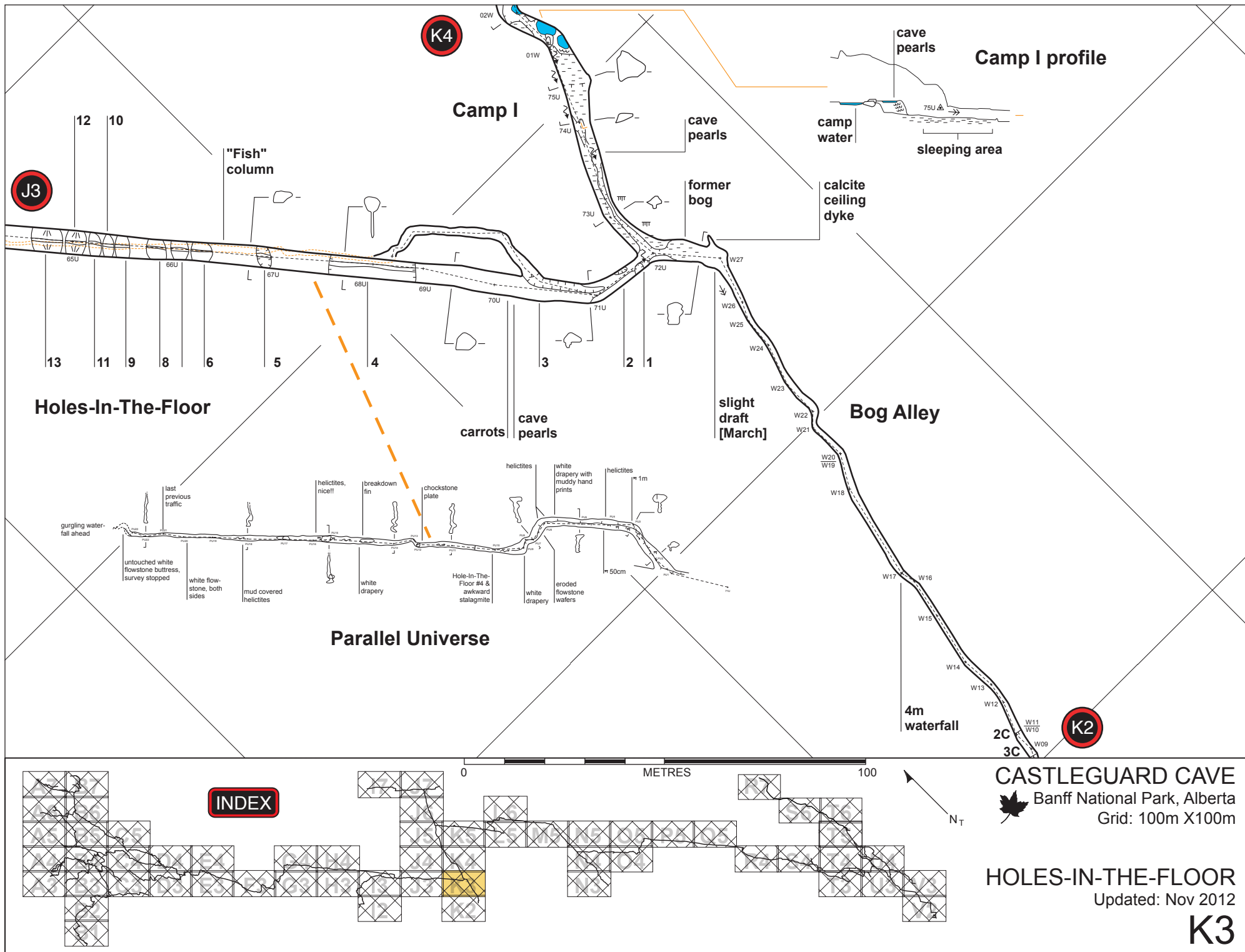
W11
W10
W09
2C
3C
W08
W07
P5
W06
W05
W04
W03
W02
W01
sump

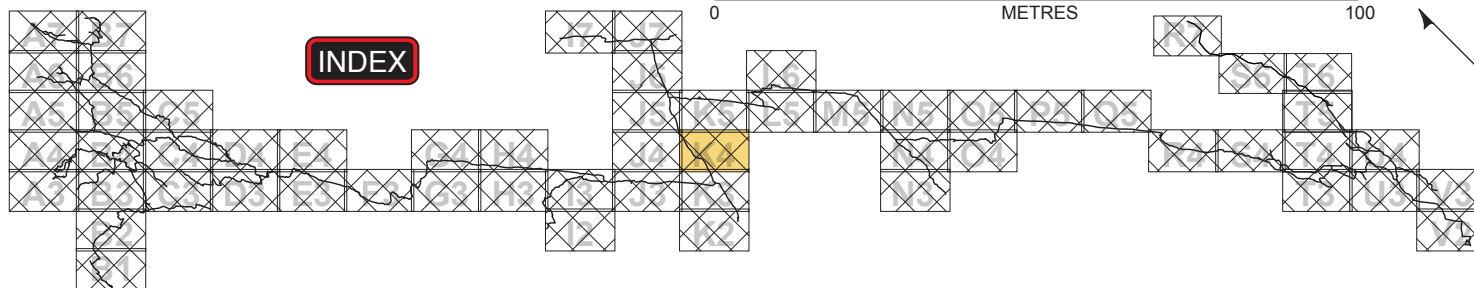
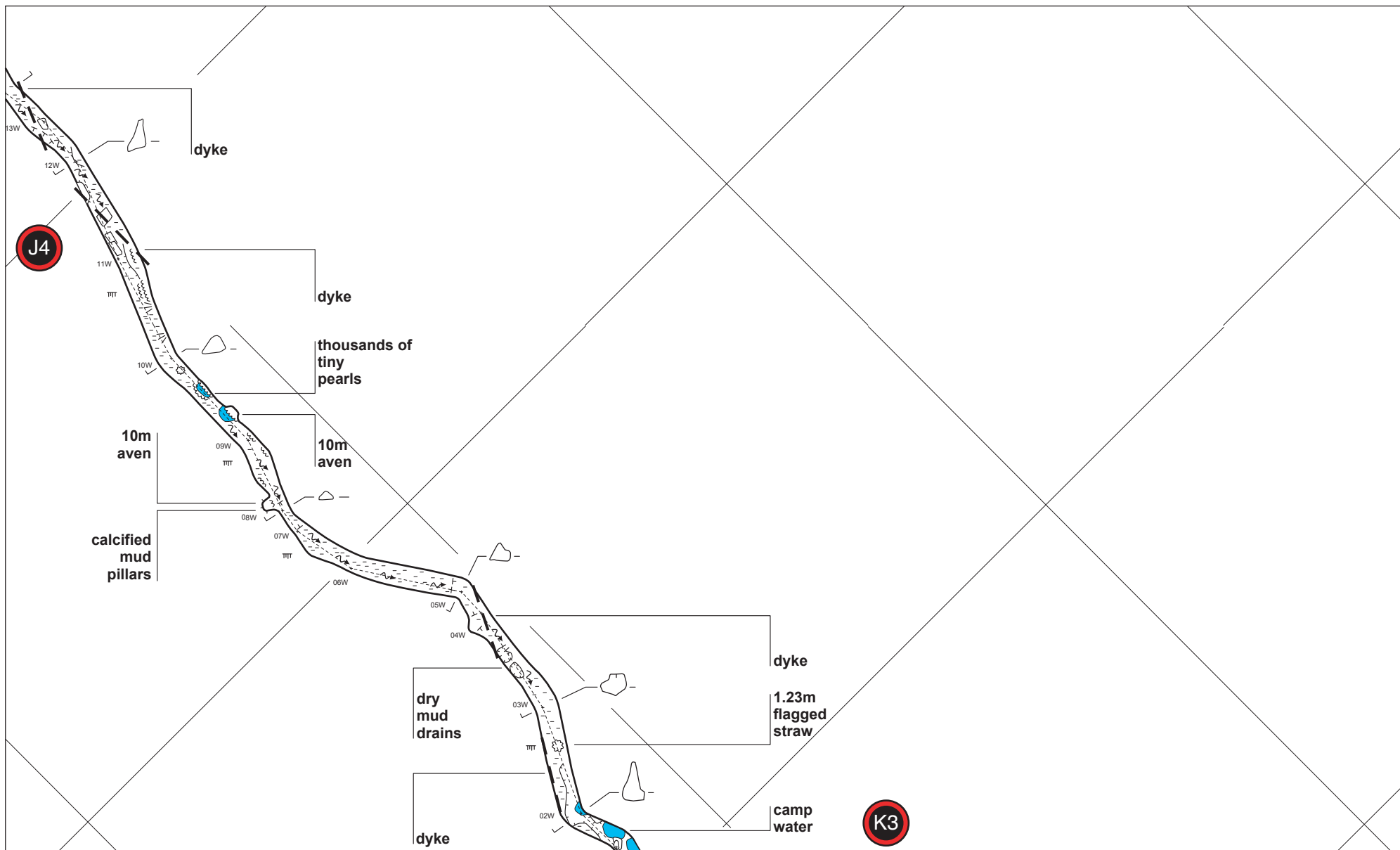


CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

BOG ALLEY
Updated: Nov 2012

K2

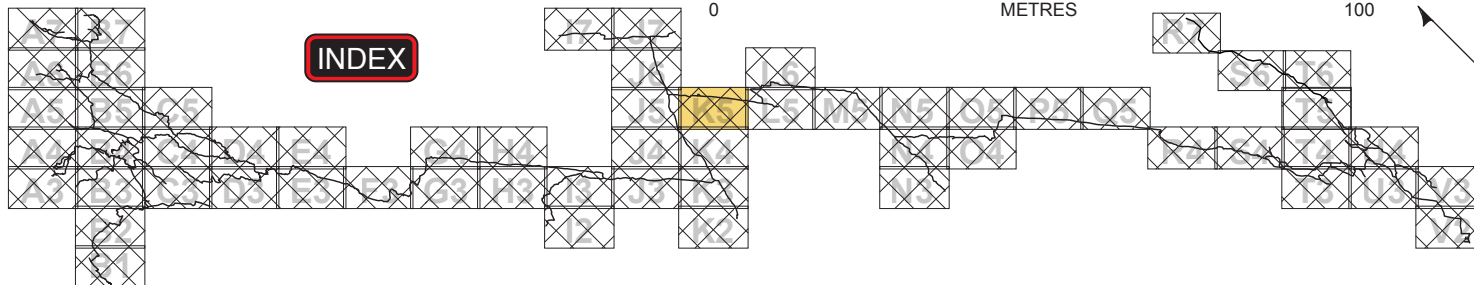
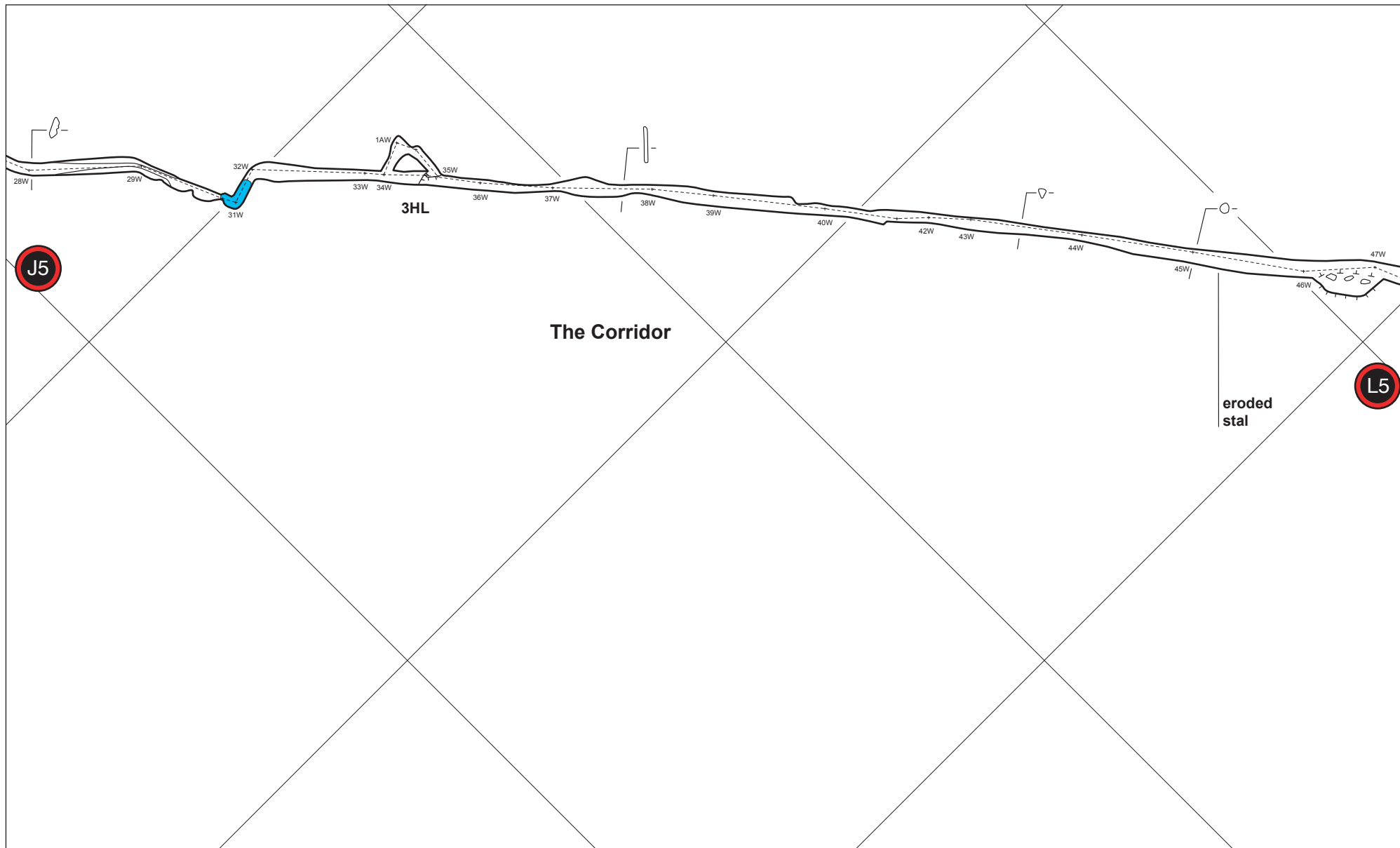




CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid: 100m X100m

THE GROTTOES
 Updated: Nov 2012

K4



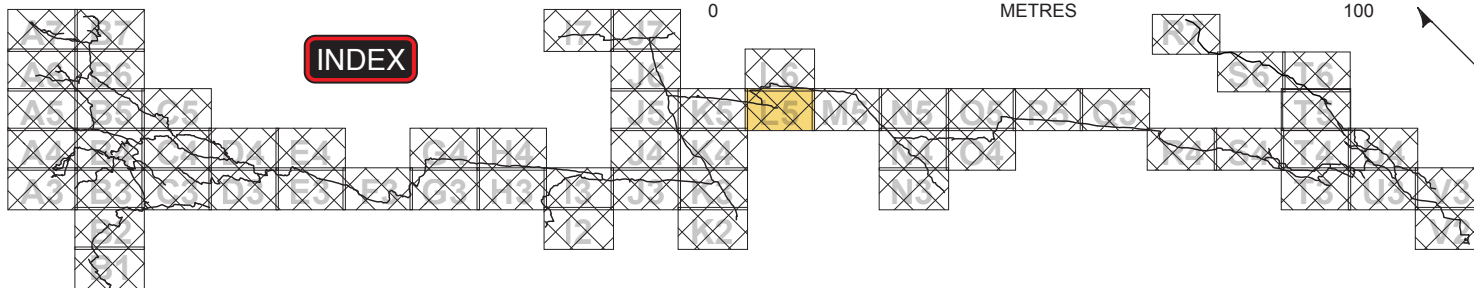
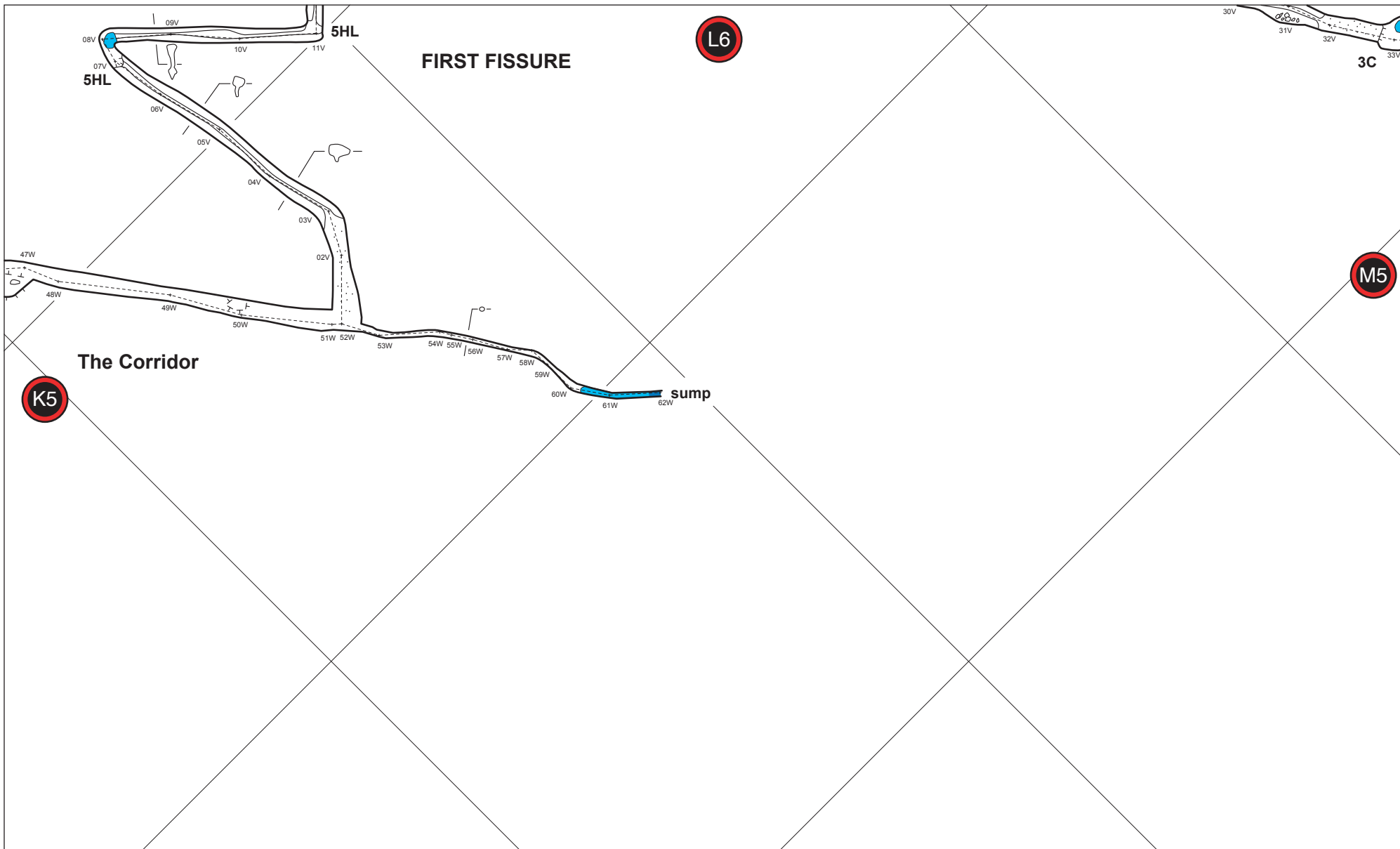
0 METRES 100



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

THE CORRIDOR
Updated: Nov 2012

K5



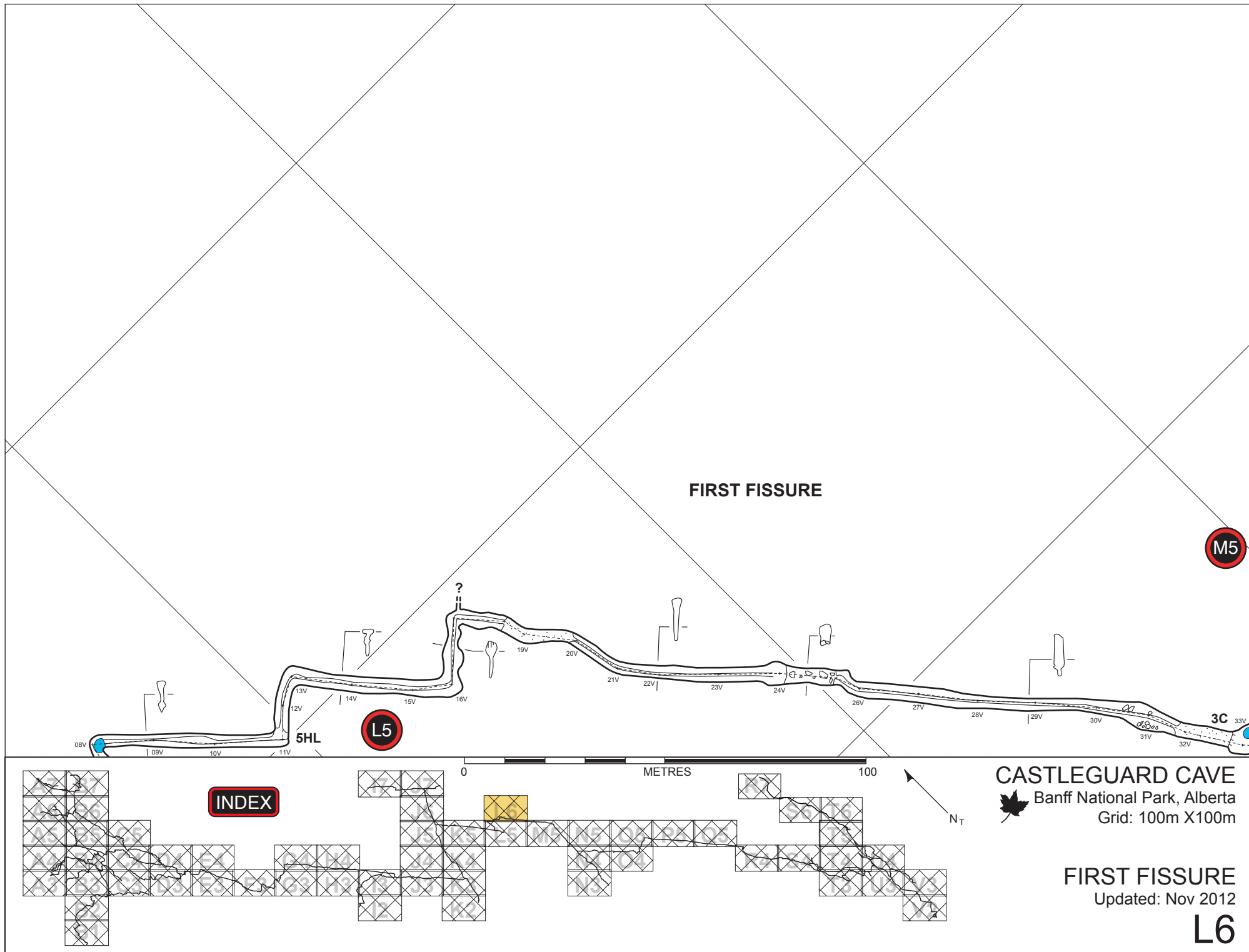
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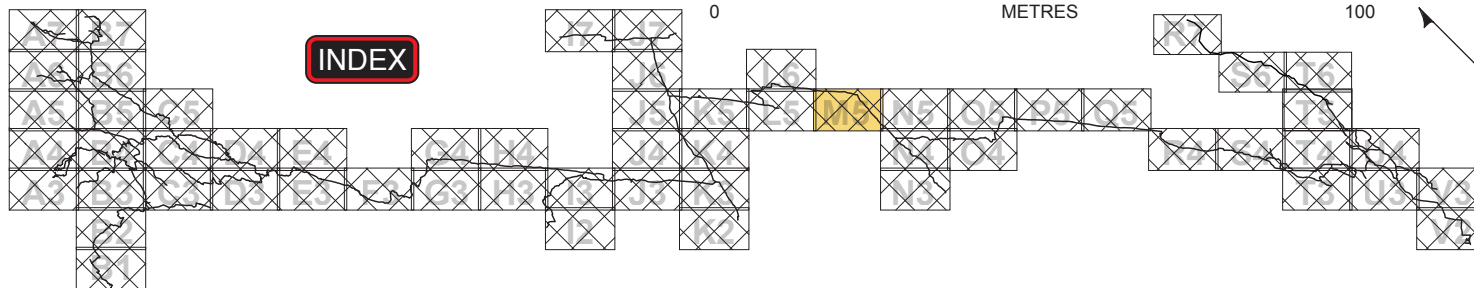
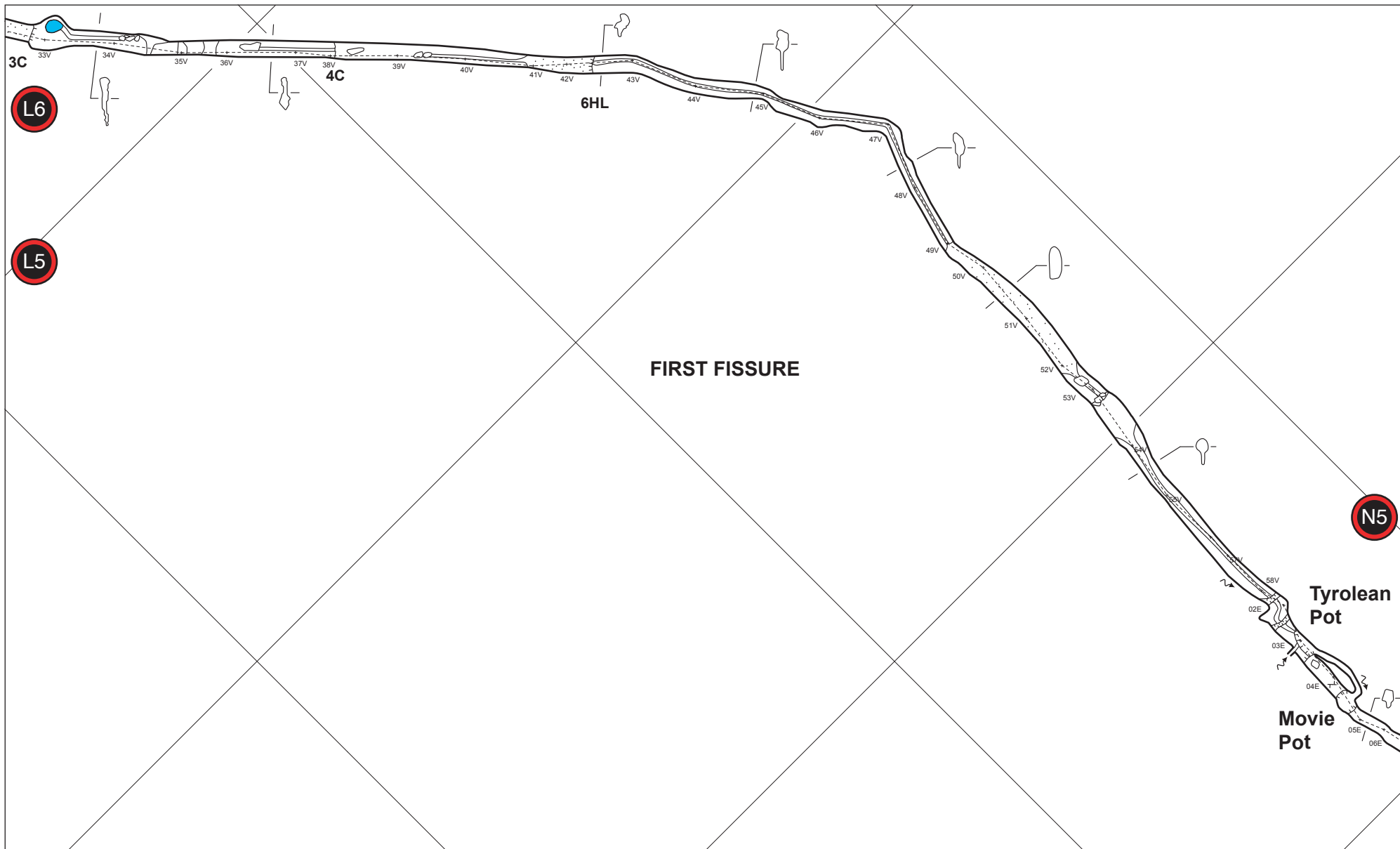


CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

CORRIDOR SUMP
Updated: Nov 2012

L5





CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

MOVIE POT
Updated: Nov 2012
M5

N4

Twinkle Alley

1.0m wide ?
0.5m high

?
cairn,
continues
low

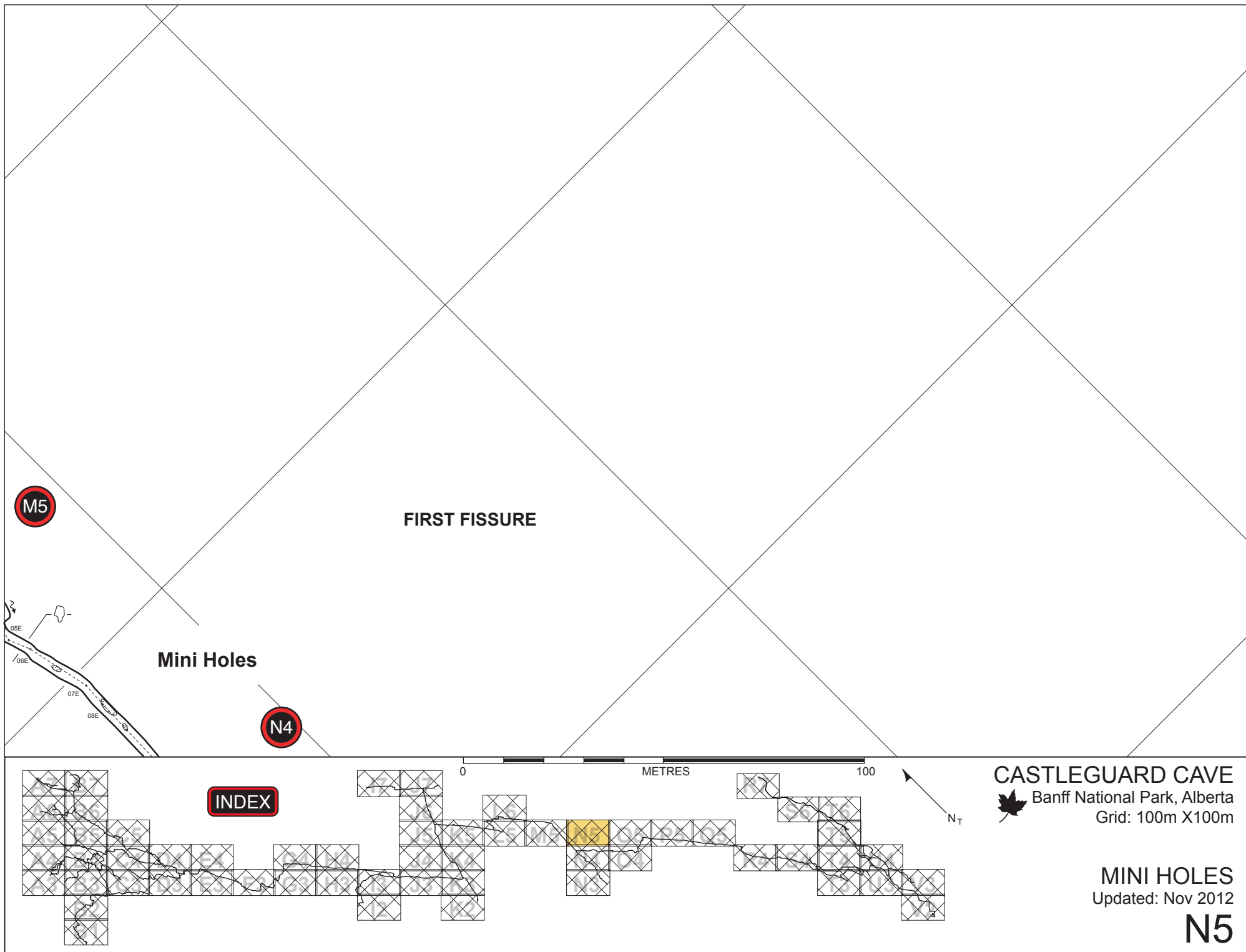
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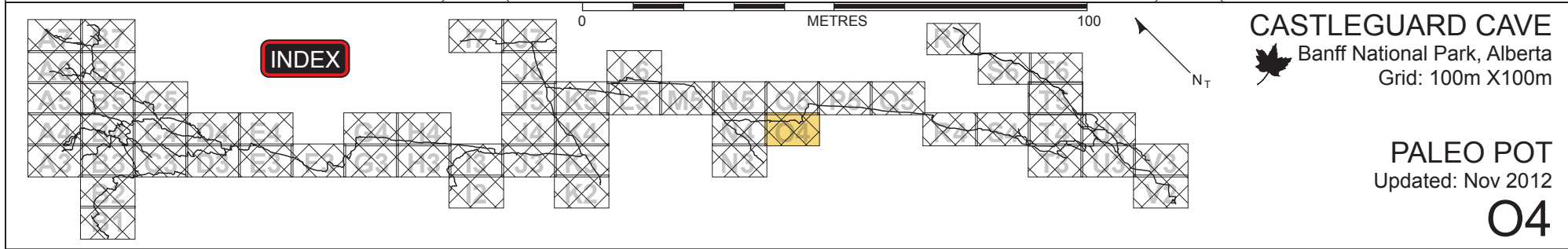
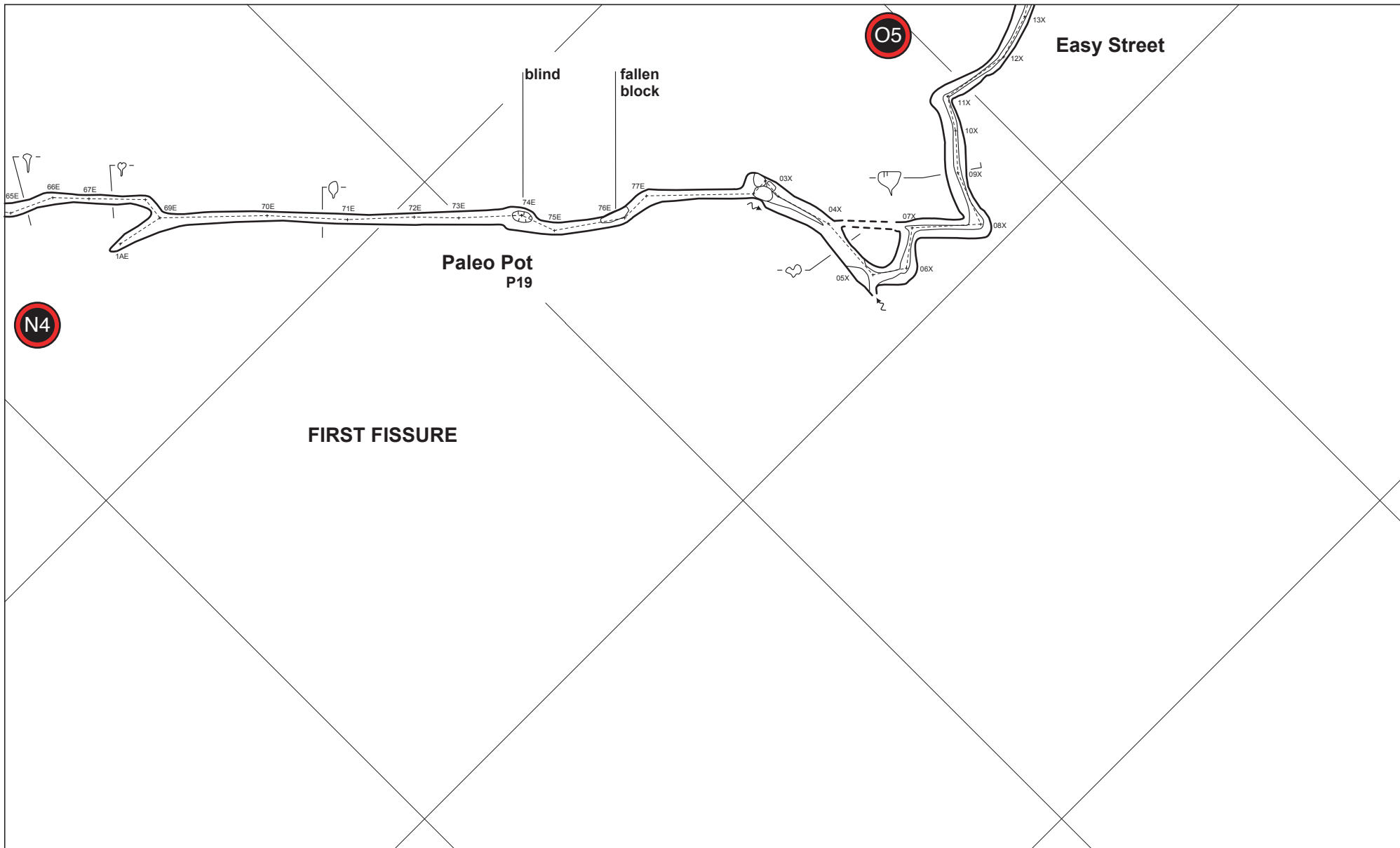
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CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

TWINKLE ALLEY
Updated: Nov 2012

N3





FIRST FISSURE

P5

isopods

cave pearls

3C

2C

2C

Easy Street

O4

0 METRES 100

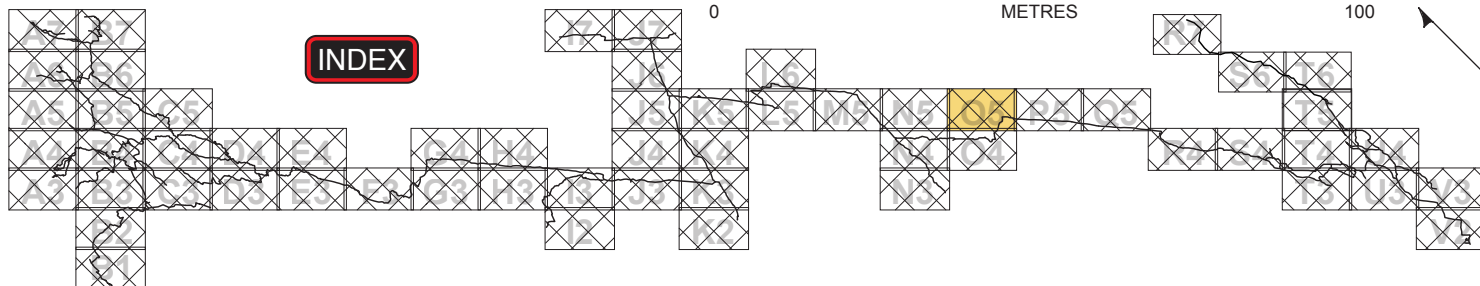
N_T

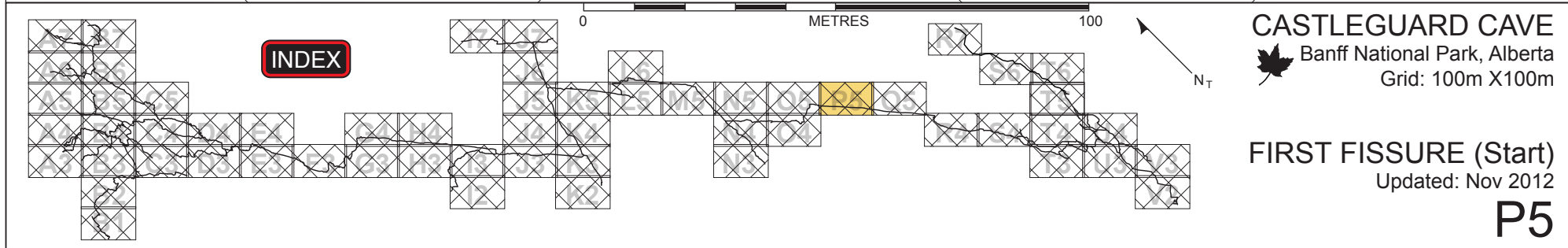
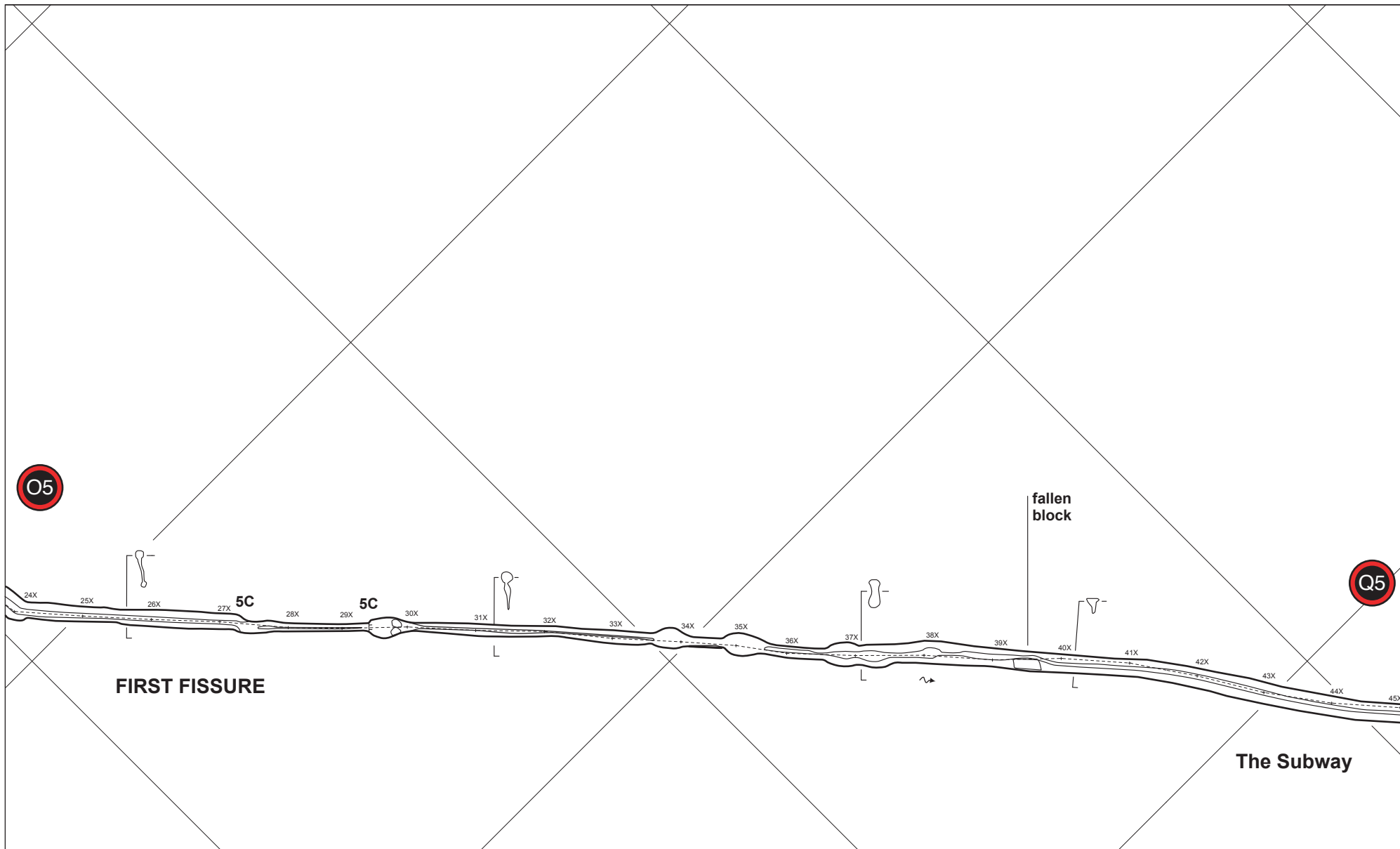
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

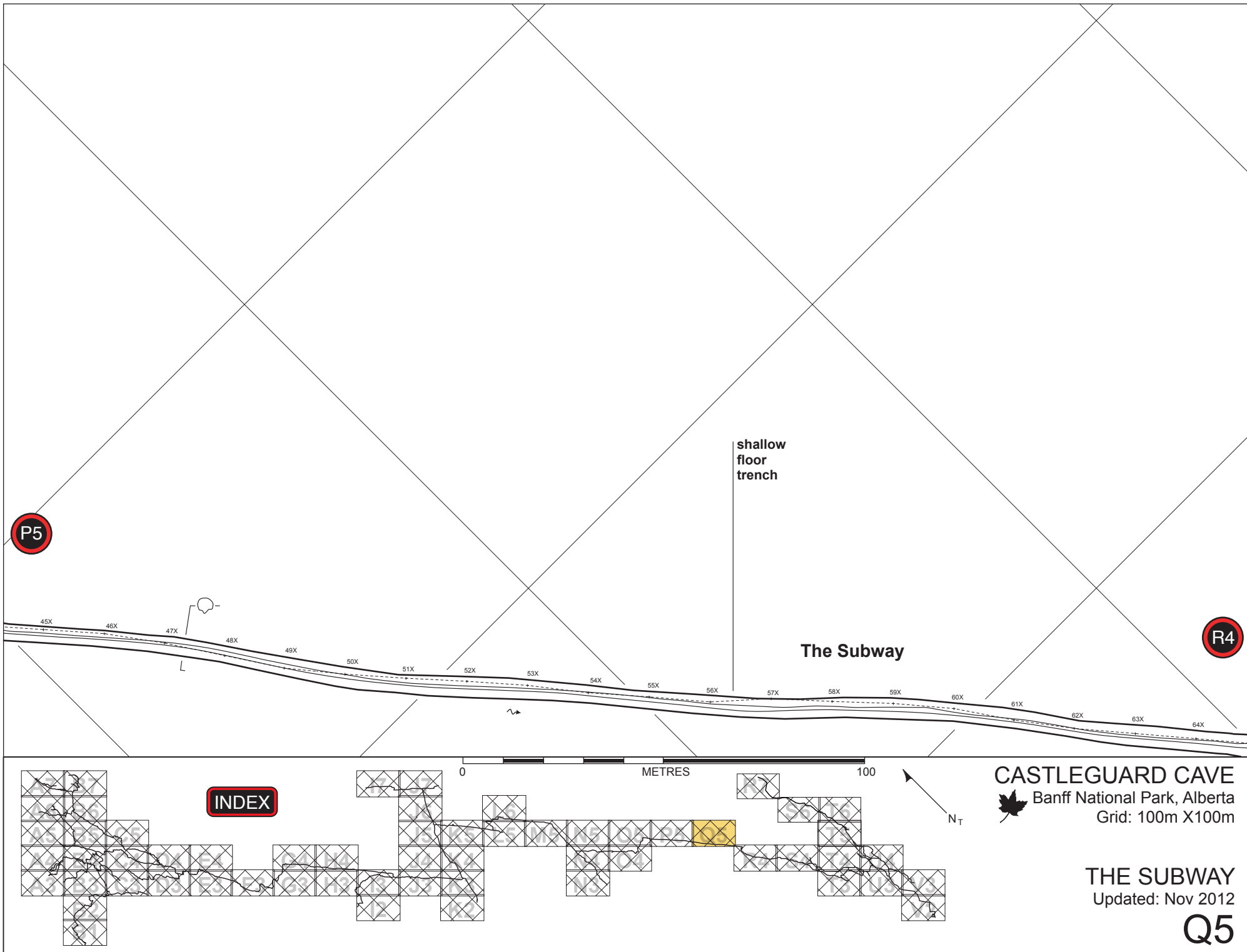
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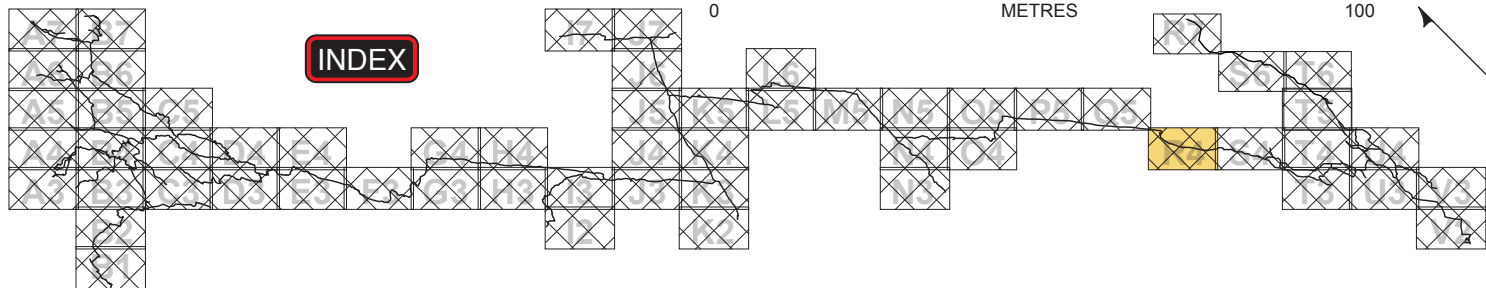
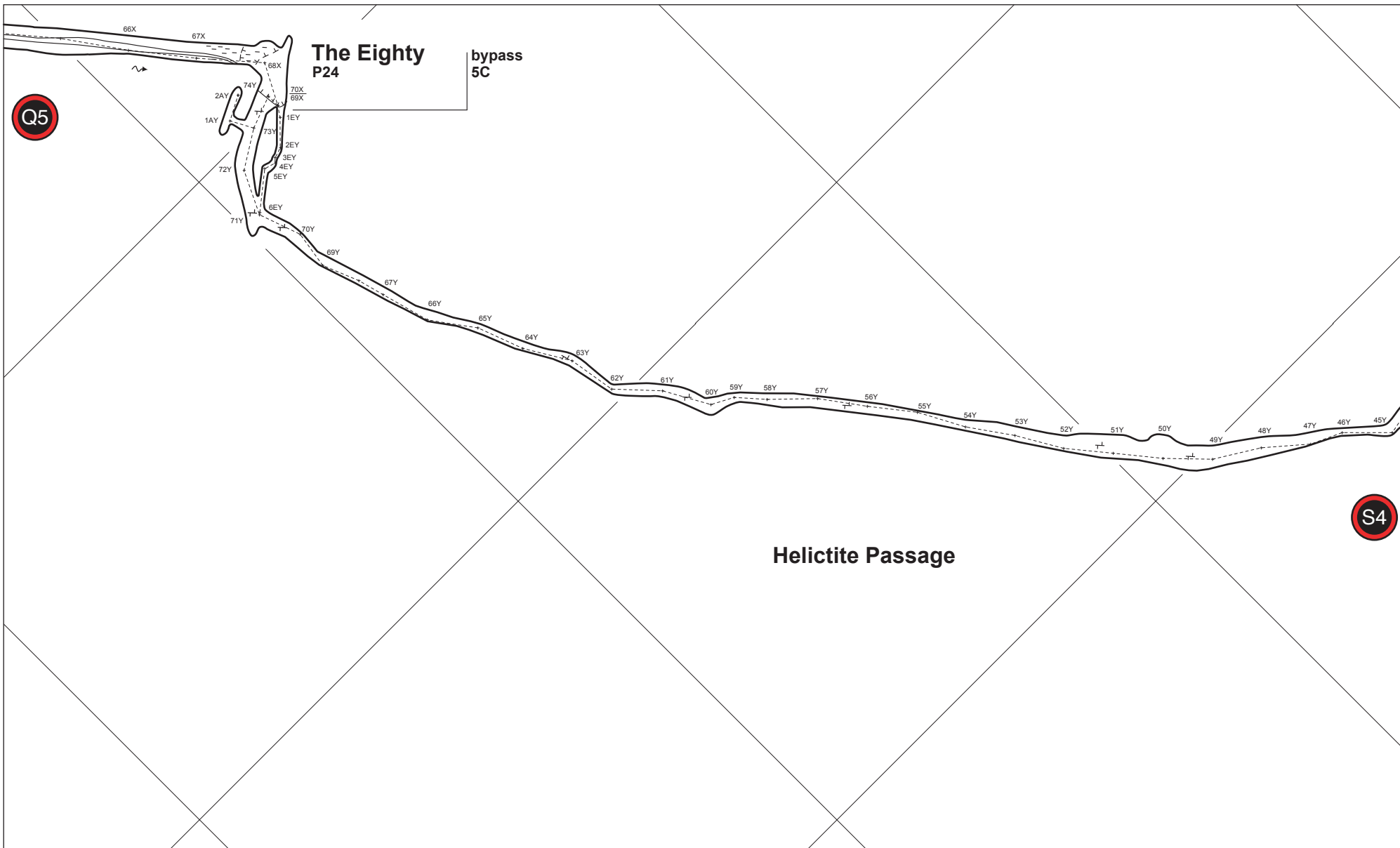
EASY STREET
Updated: Nov 2012

O5





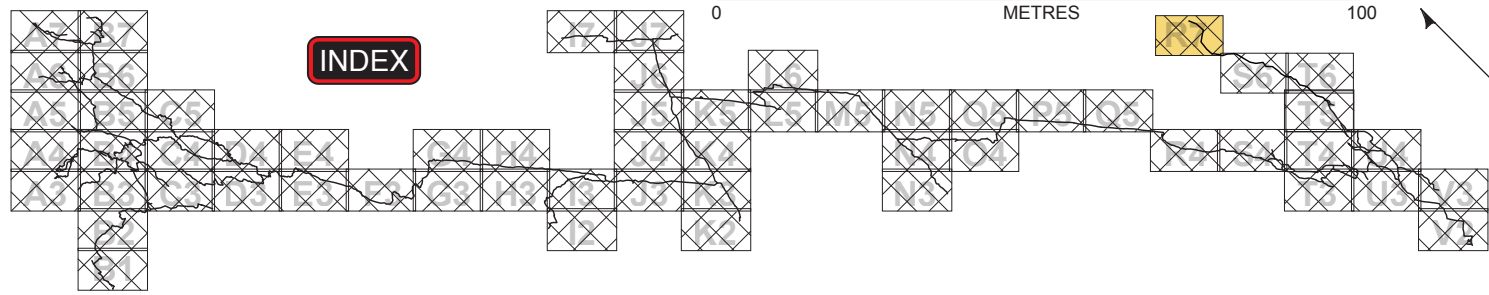
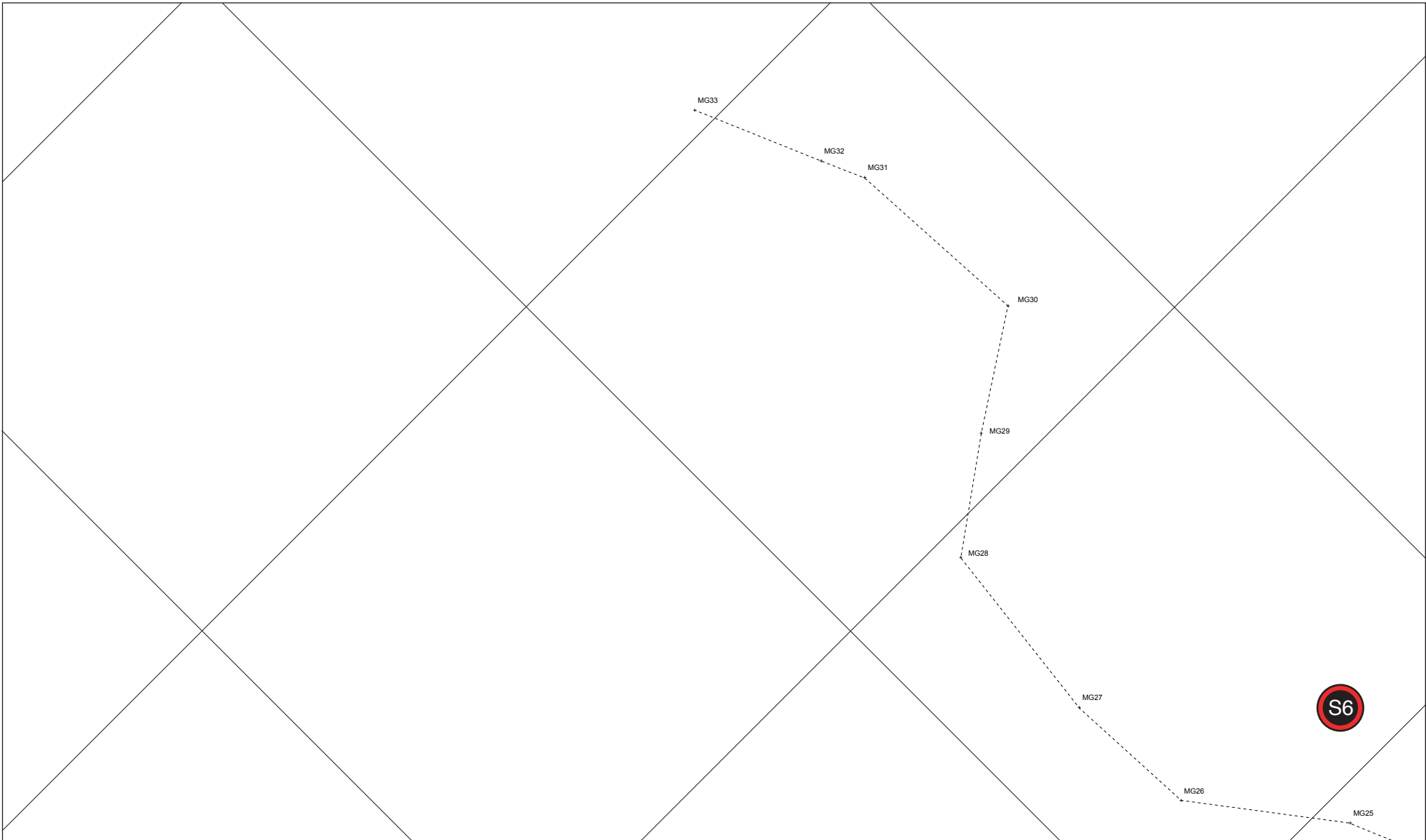




CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

THE EIGHTY
Updated: Nov 2012

R4

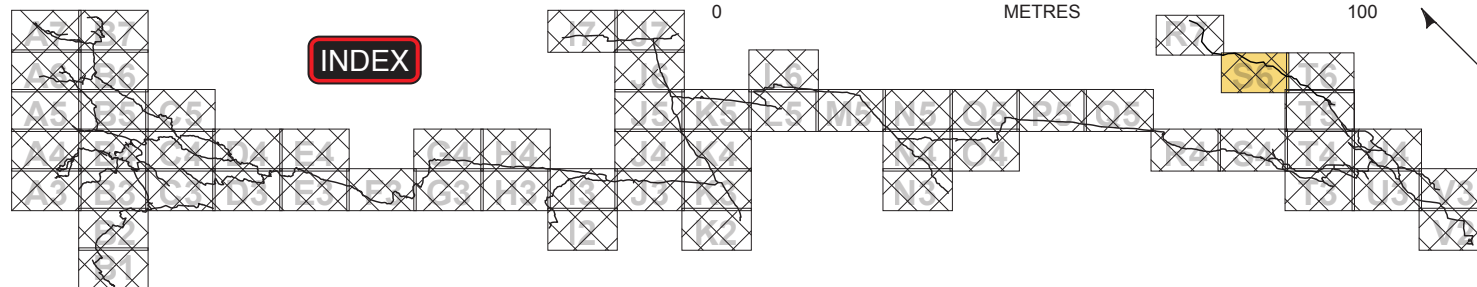
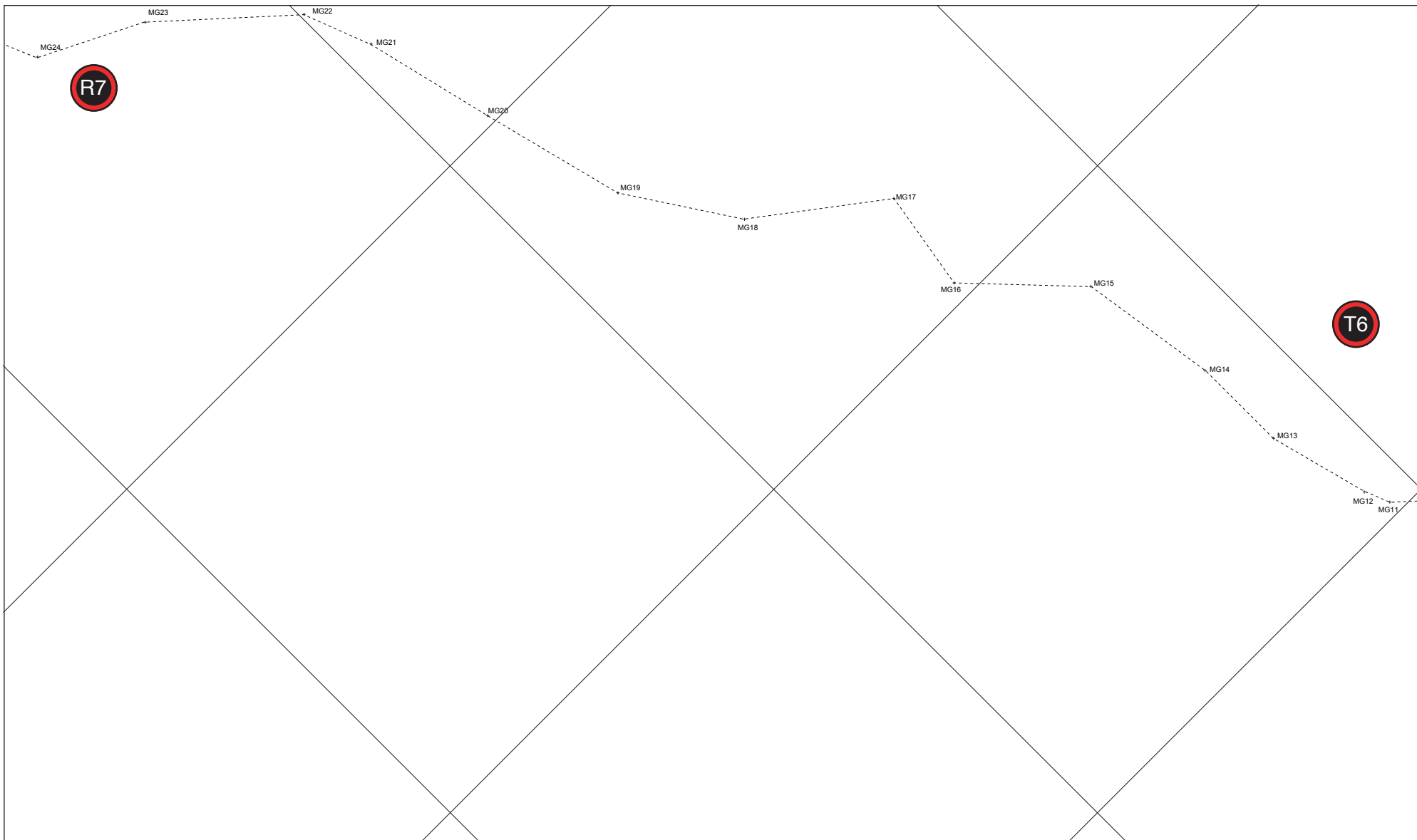


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CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

SUMP DIVE 3
Updated: Nov 2012

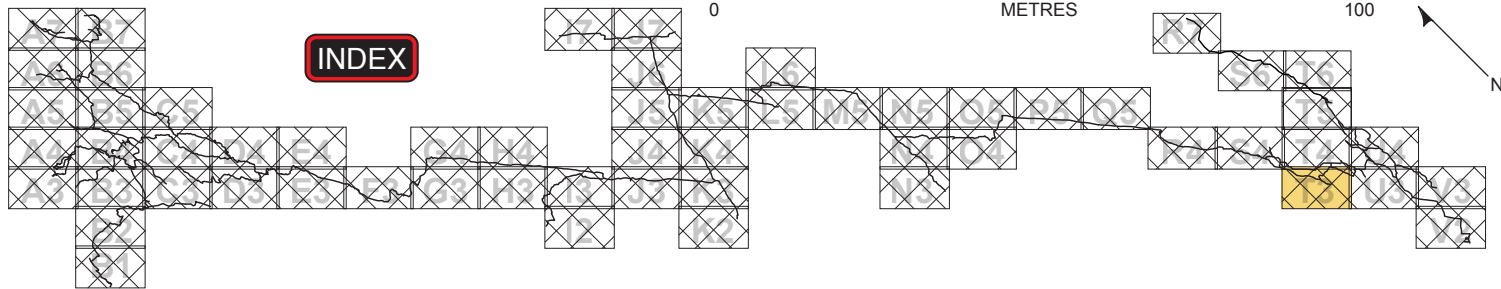
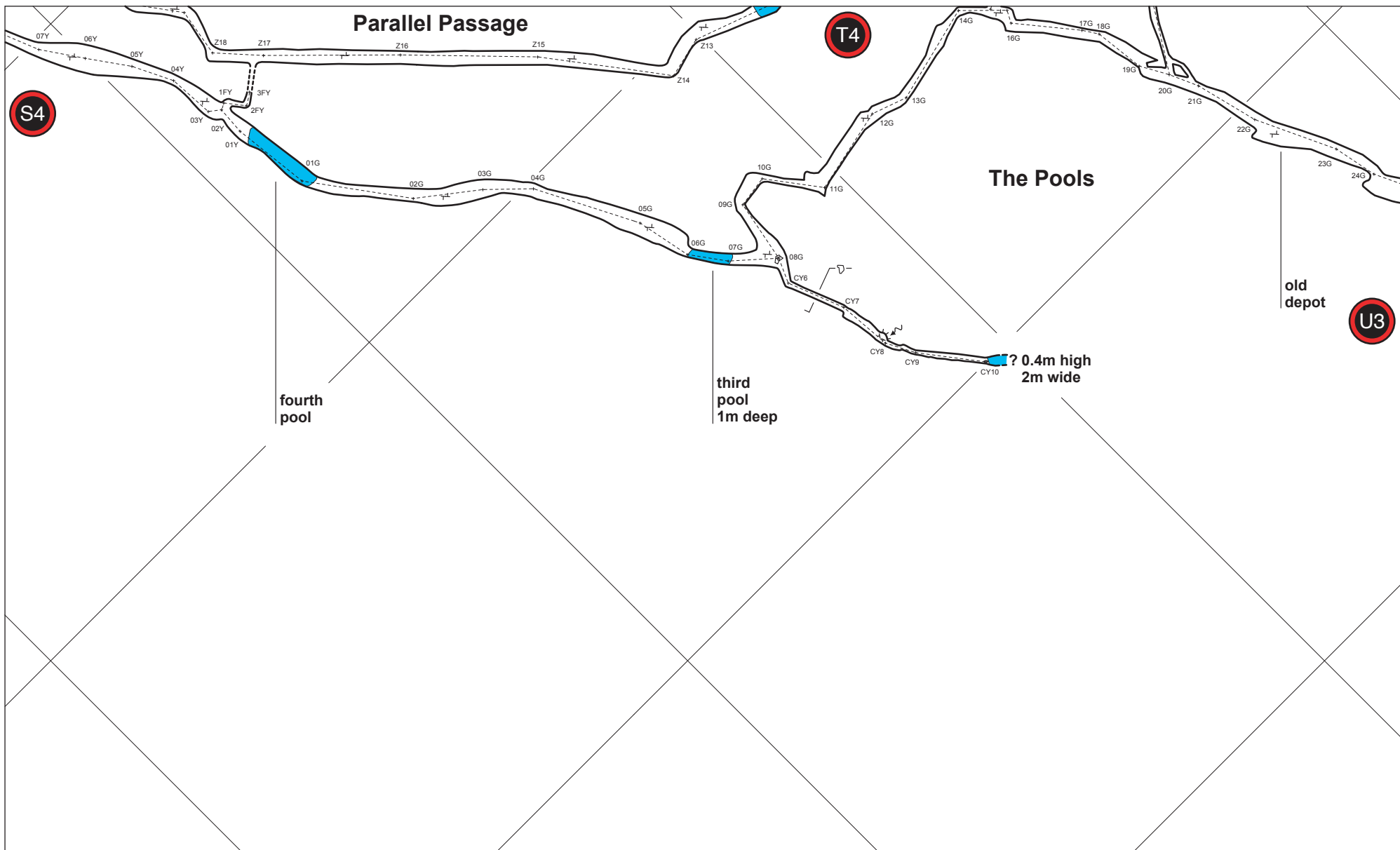
R7



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

SUMP DIVE 2
Updated: Nov 2012

S6



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

THE POOLS
Updated: Nov 2012
T3

T6

MG4

MG3

Boon's Sump

hundreds
of
isopods

9KZ

MG2

4KZ

81Z

MG1

10JZ

8JZ

11JZ

3JZ

2JZ

4JZ

5JZ

? 0.1m airspace

laminated
mud
walls

79Z

78Z

77Z

76Z

75Z

74Z

73Z

72Z

71Z

Boon's Blunder

0.3m high
1.0m wide

U4

T4

0

METRES

100

N_T

INDEX

CASTLEGUARD CAVE

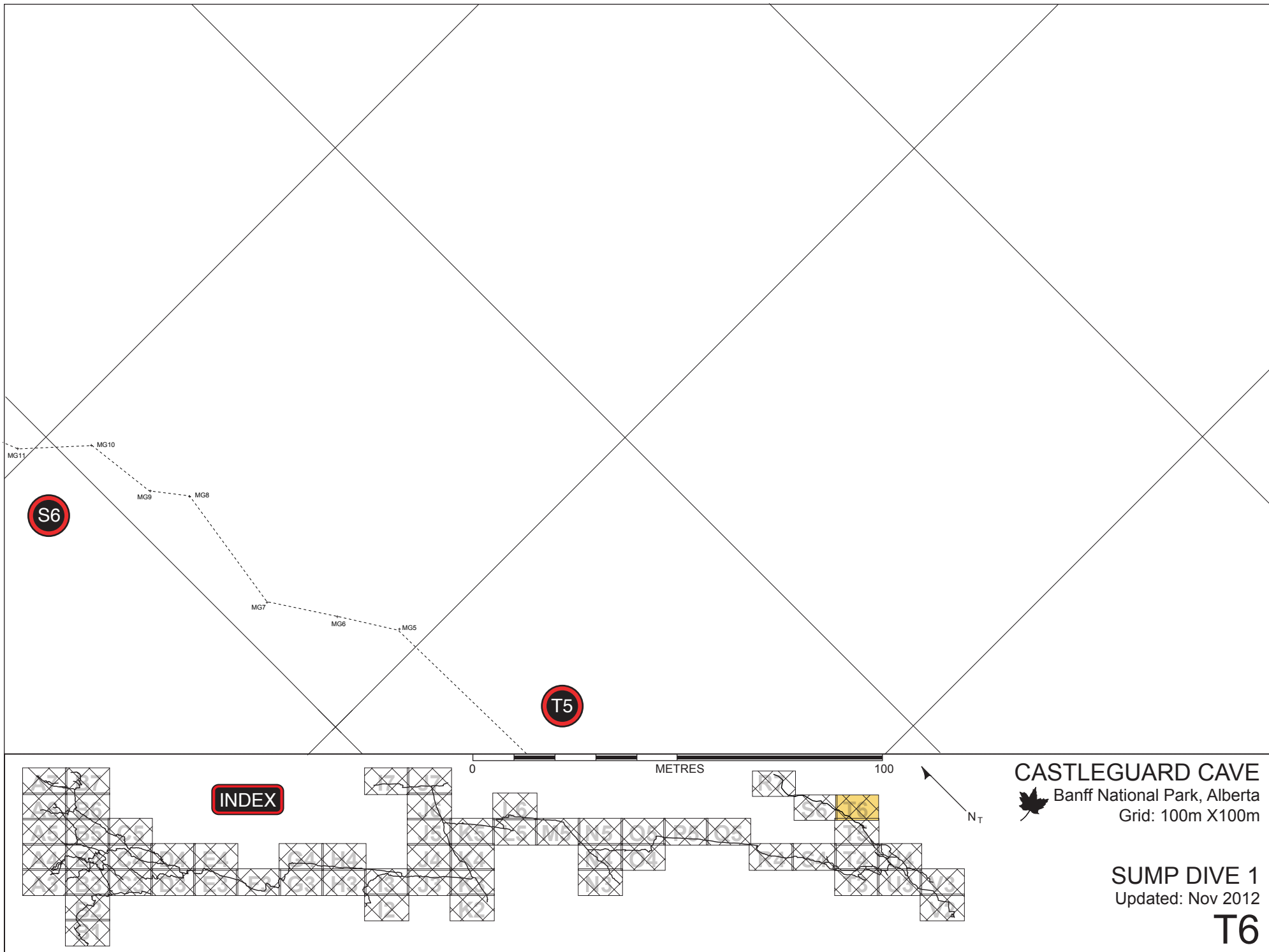
Banff National Park, Alberta

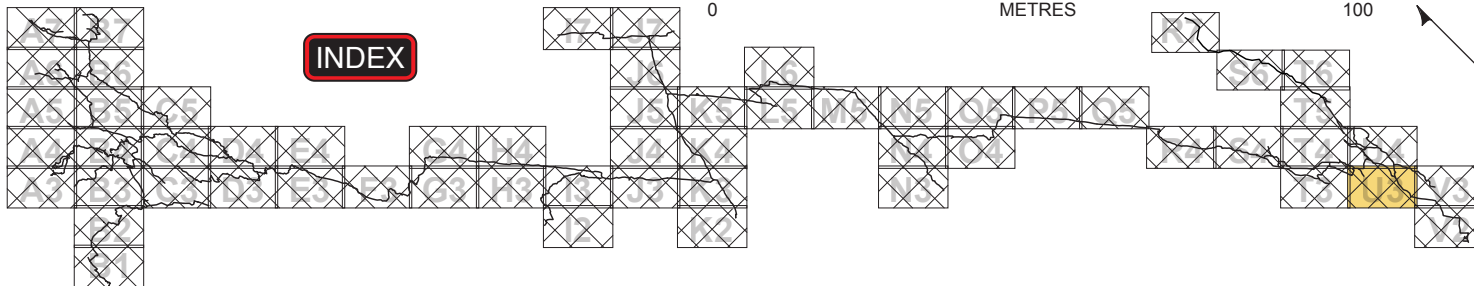
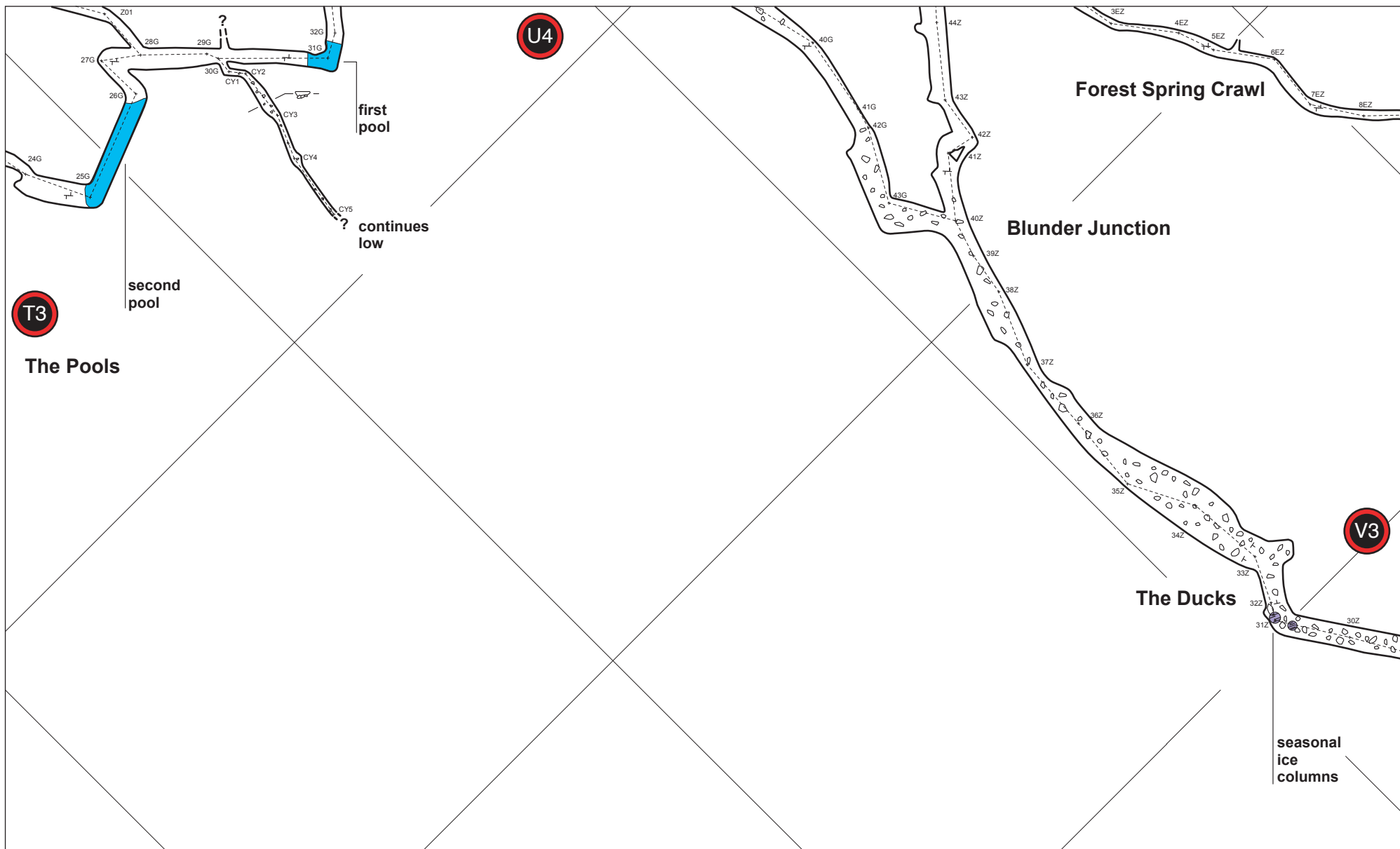
Grid: 100m X100m

BOON'S SUMP

Updated: Nov 2012

T5

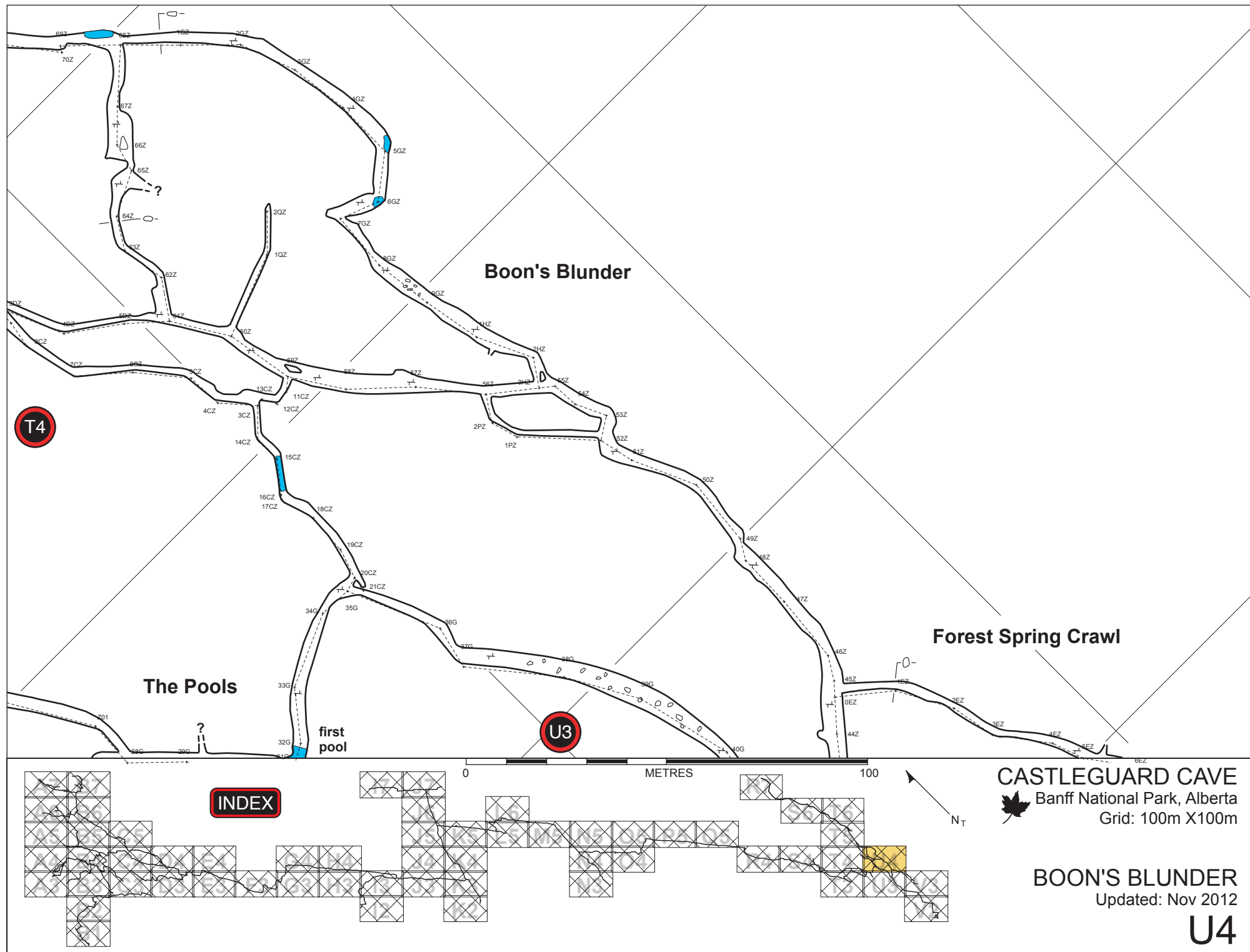




CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

BLUNDER JUNCTION
Updated: Nov 2012

U3



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

BOON'S BLUNDER
Updated: Nov 2012

U4

V3

21Z winter summer

The Canal / Ice Crawls

Entrance
Pitch
P8

gate

Entrance

0 METRES 100

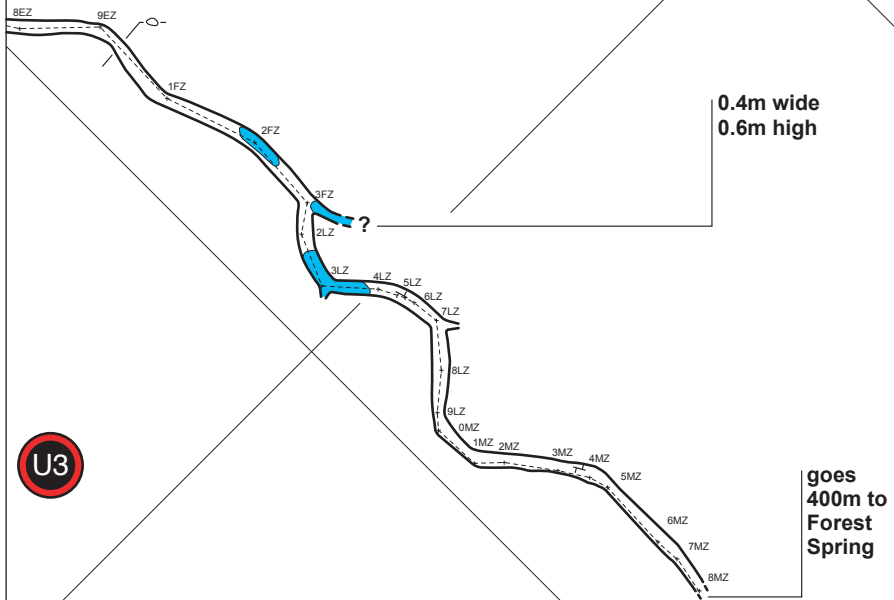
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CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

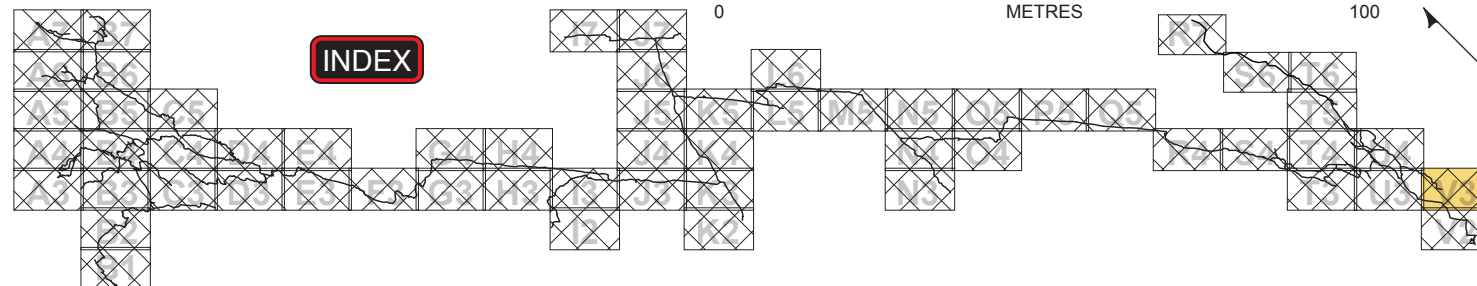
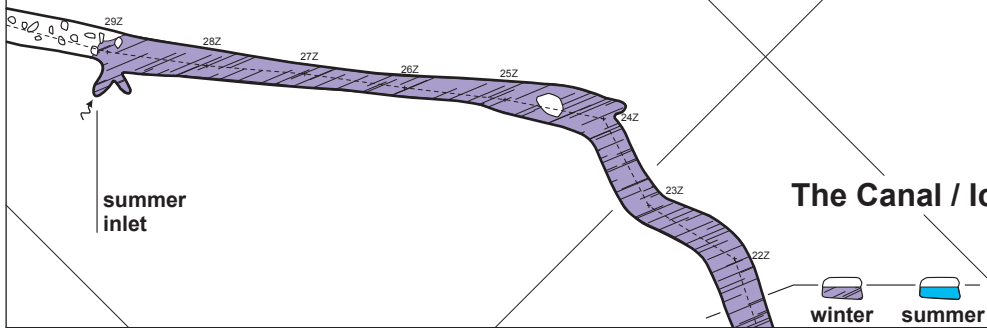
ENTRANCE
Updated: Nov 2012

V2

Forest Spring Crawl



The Canal / Ice Crawls



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid: 100m X100m

CANAL / ICE CRAWLS
Updated: Nov 2012

V3