

DRIVERS ROUTE KNOWLEDGE DIAGRAMS

MAIN WEST (BLUE MOUNTAINS) LINE

EMU PLAINS
LAPSTONE
GLENBROOK
BLAXLAND
WARRIMOO
VALLEY HEIGHTS
SPRINGWOOD
FAULCONBRIDGE
LINDEN
WOODFORD
HAZELBROOK
LAWSON
BULLABURRA
WENTWORTH FALLS
LEURA
KATOOMBA
MEDLOW BATH
BLACKHEATH
MT VICTORIA
BELL
NEWNES JUNCTION
EDGECOMBE
ZIG ZAG
LITHGOW

Effective Date: August 2026

Version: 5.11

Explanatory Notes:

Navigate to your area of interest via the station index or by using links created in Adobe bookmarks.

This document is approved for **route knowledge only**.

Do not use these diagrams for any safety related purpose without validating the information against a controlled source or in the field.

Information in these diagrams is uncontrolled.

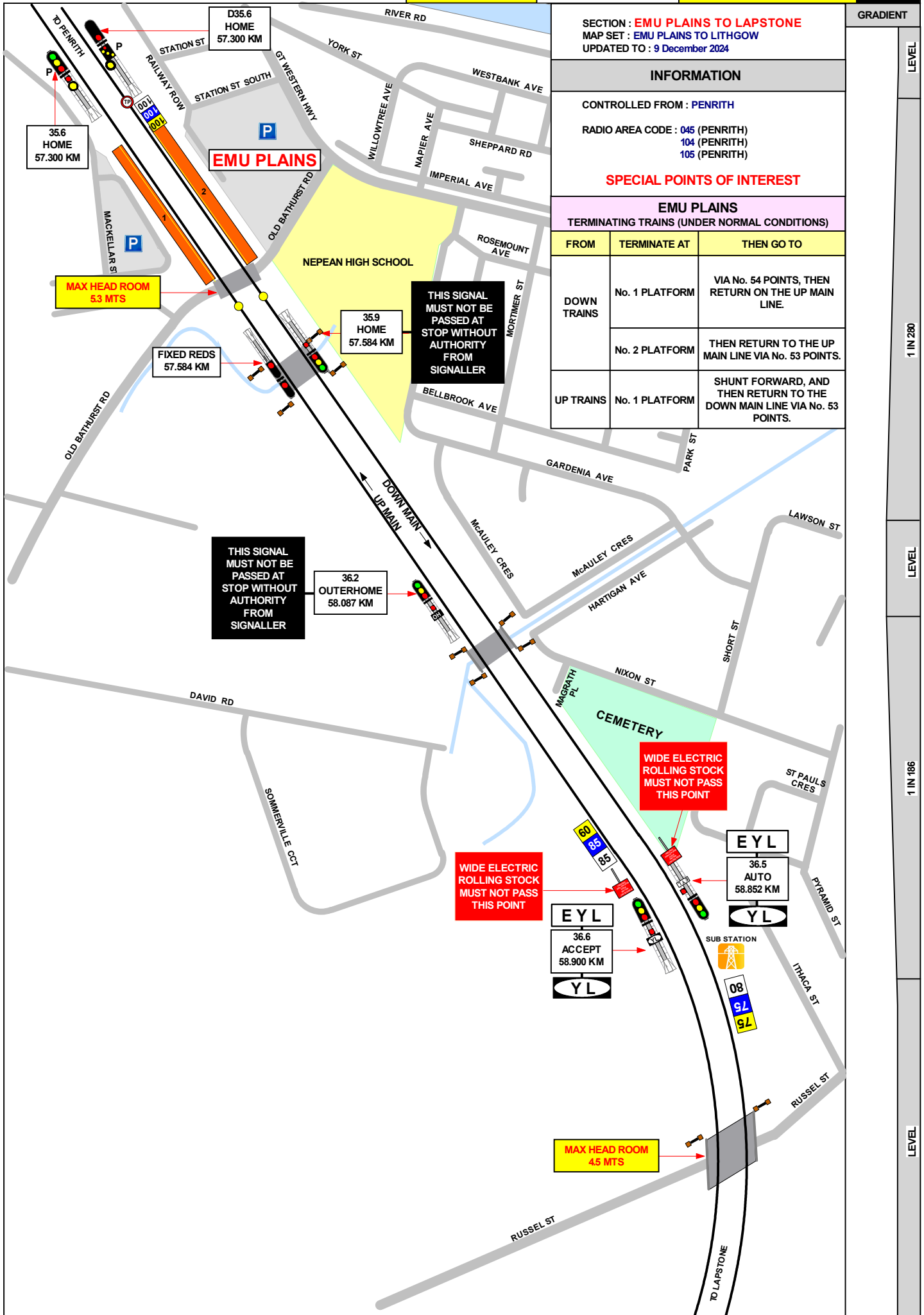
Please report any updates to
gis.support@transport.nsw.gov.au



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Location: CM Record No.D2015/572



SECTION : **EMU PLAINS TO LAPSTONE**
 MAP SET : EMU PLAINS TO LITHGOW
 UPDATED TO : 3 March 2021

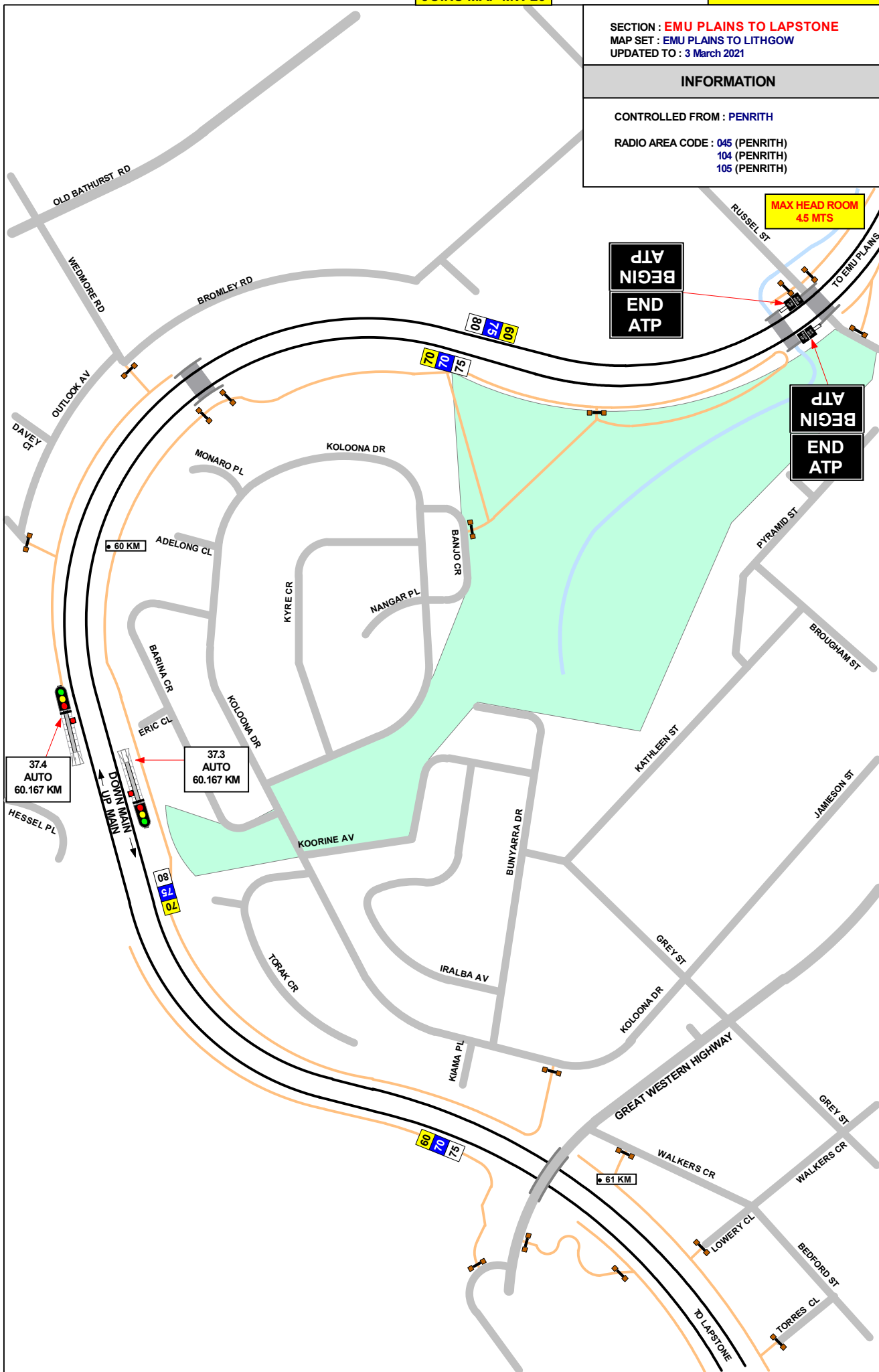
INFORMATION

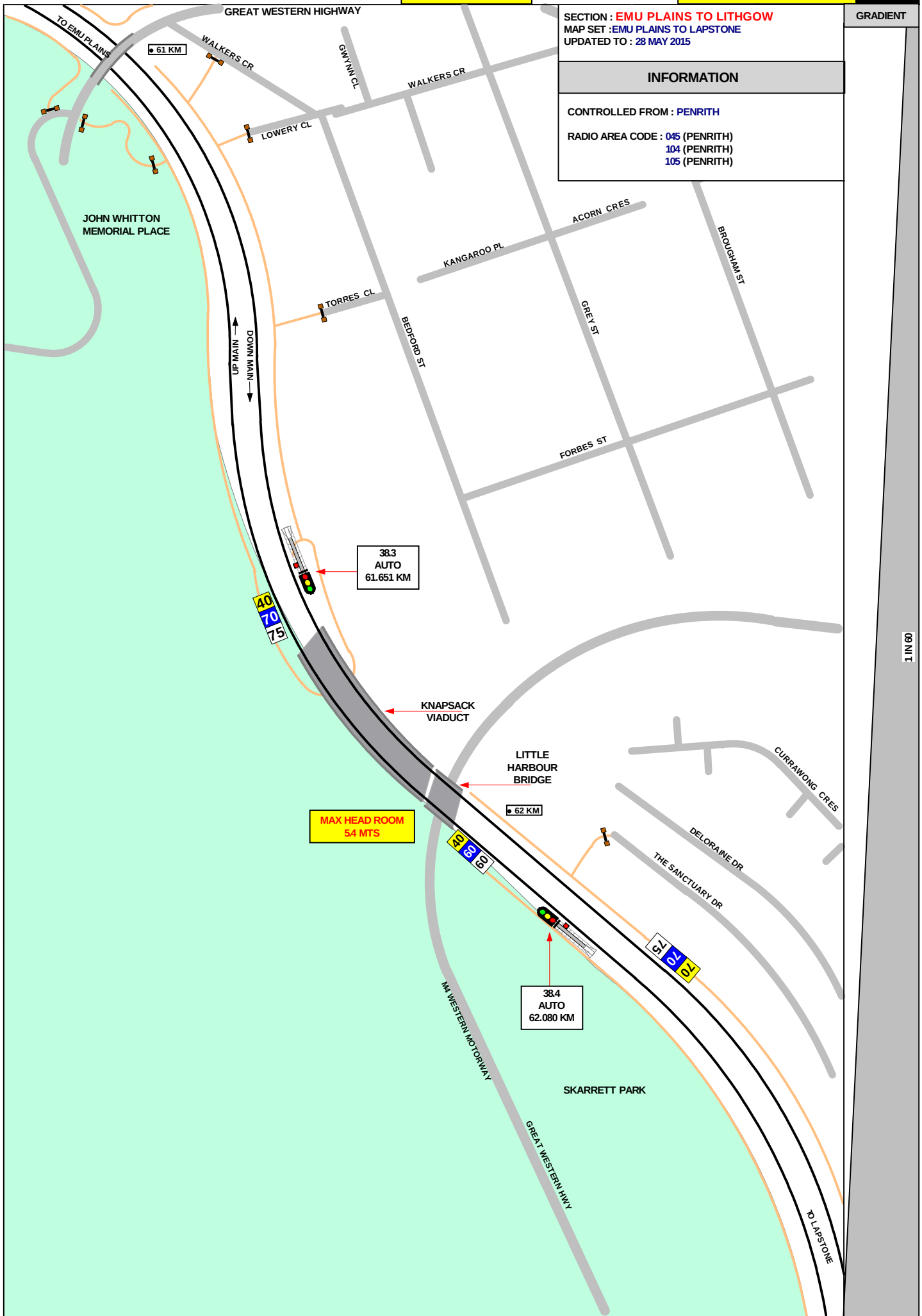
CONTROLLED FROM : **PENRITH**

RADIO AREA CODE : **045** (PENRITH)
104 (PENRITH)
105 (PENRITH)

GRADIENT

1 IN 60





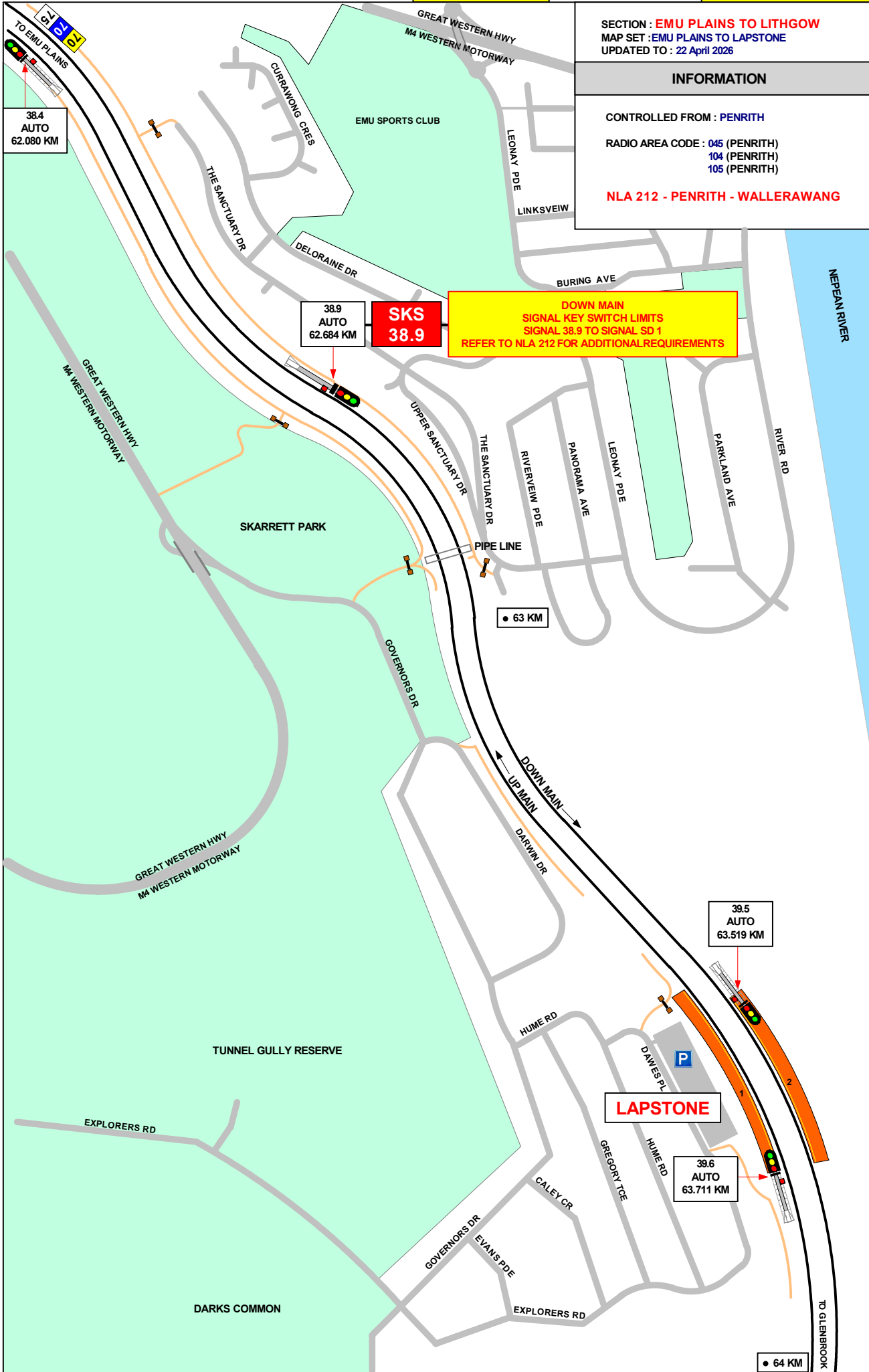
SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **EMU PLAINS TO LAPSTONE**
 UPDATED TO : 22 April 2026

INFORMATION

CONTROLLED FROM : **PENRITH**

RADIO AREA CODE : **045** (PENRITH)
104 (PENRITH)
105 (PENRITH)

NLA 212 - PENRITH - WALLERAWANG



DOWN MAIN
 SIGNAL KEY SWITCH LIMITS
 SIGNAL 38.9 TO SIGNAL SD 1
 REFER TO NLA 212 FOR ADDITIONAL REQUIREMENTS

LAPSTONE

LAPSTONE

SECTION : EMU PLAINS TO LITHGOW
MAP SET : LAPSTONE TO GLENBROOK TUNNEL
UPDATED TO : 4 March 2026

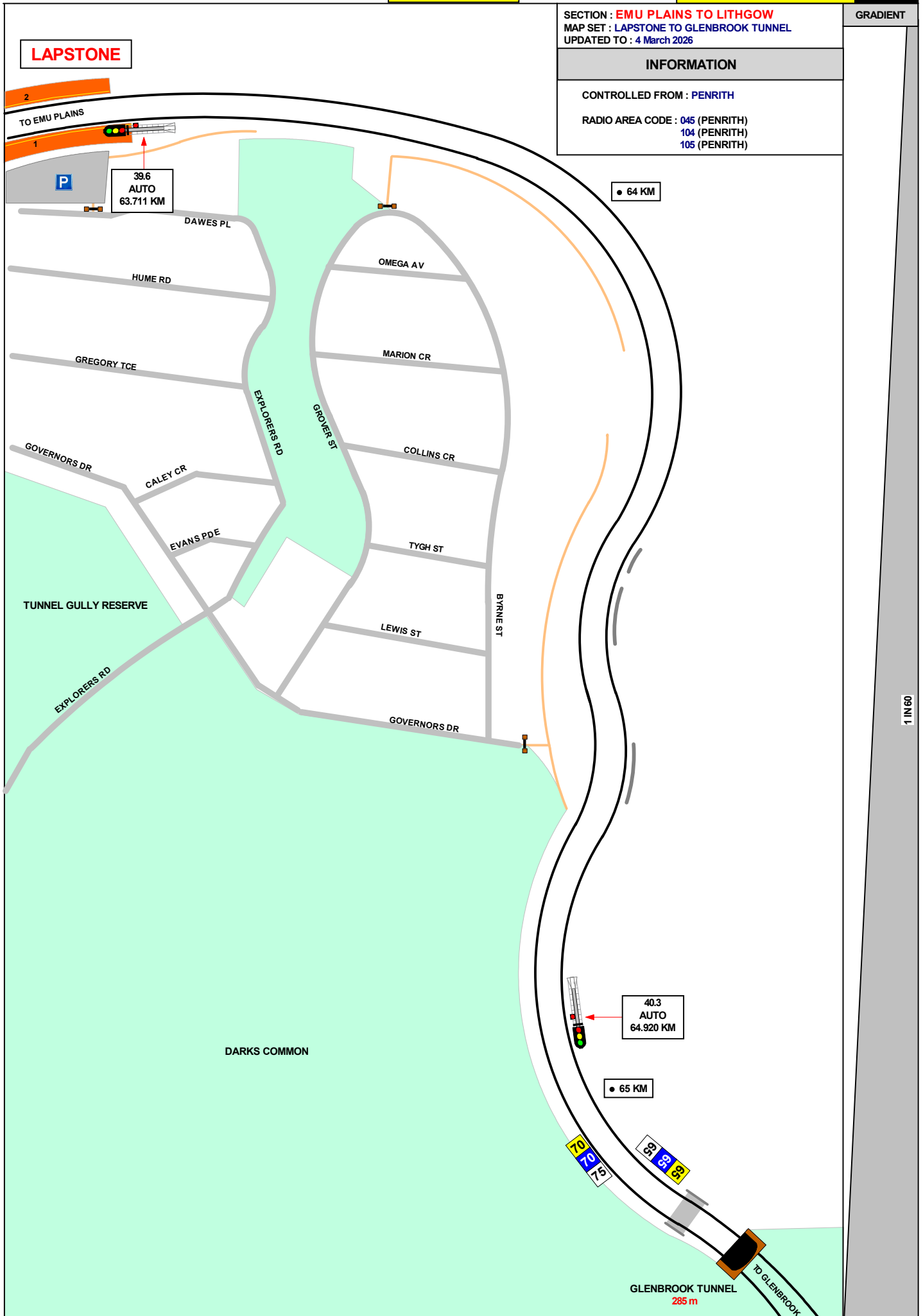
INFORMATION

CONTROLLED FROM : PENRITH

RADIO AREA CODE : 045 (PENRITH)
104 (PENRITH)
105 (PENRITH)

● 64 KM

1 IN 60



SECTION : EMU PLAINS TO LITHGOW
 MAP SET : LAPSTONE TO GLENBROOK
 UPDATED TO : 1 June 2026

GRADIENT

INFORMATION

CONTROLLED FROM : PENRITH

RADIO AREA CODE : 045 (PENRITH)
 104 (PENRITH)
 105 (PENRITH)

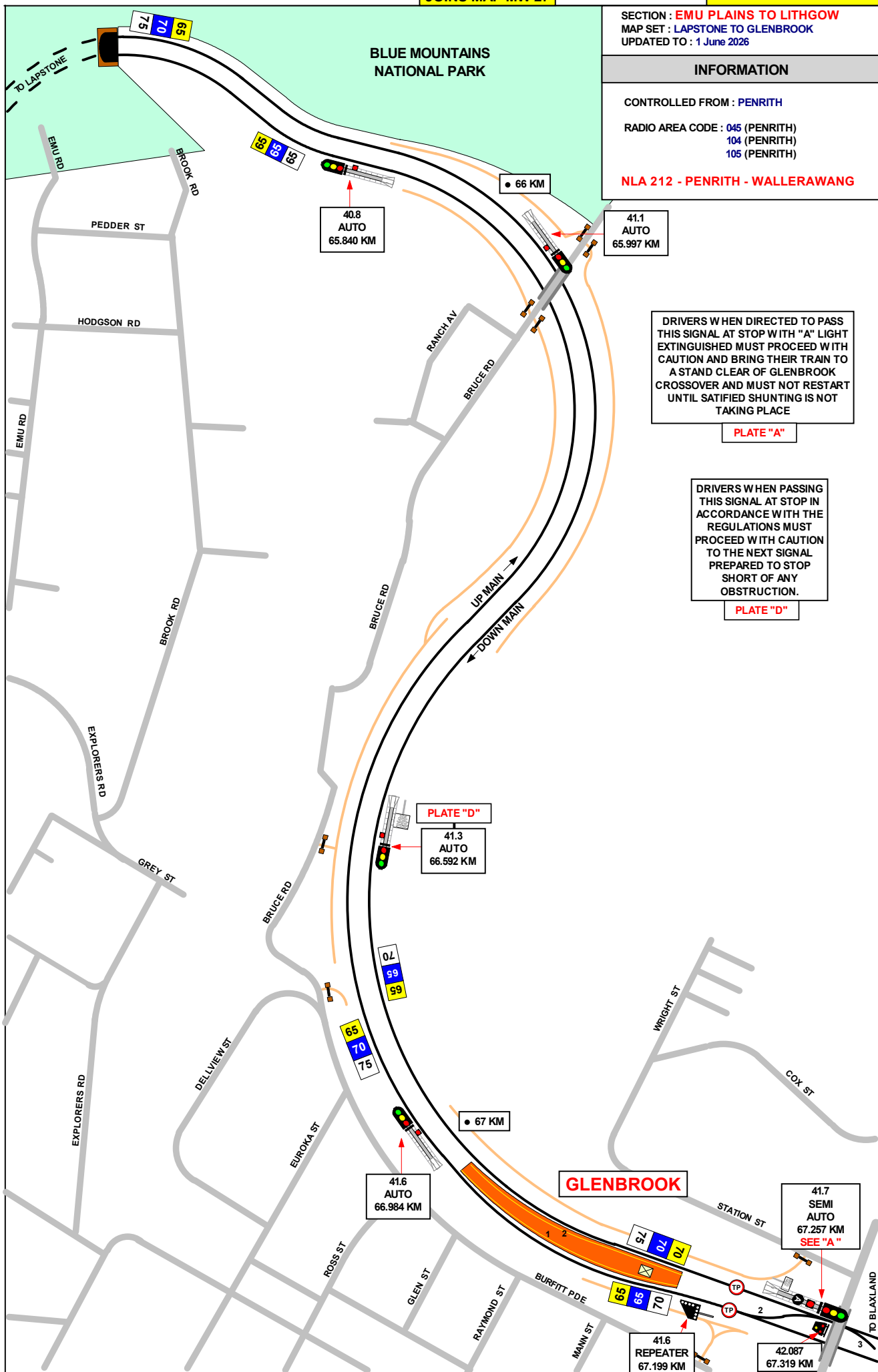
NLA 212 - PENRITH - WALLERAWANG

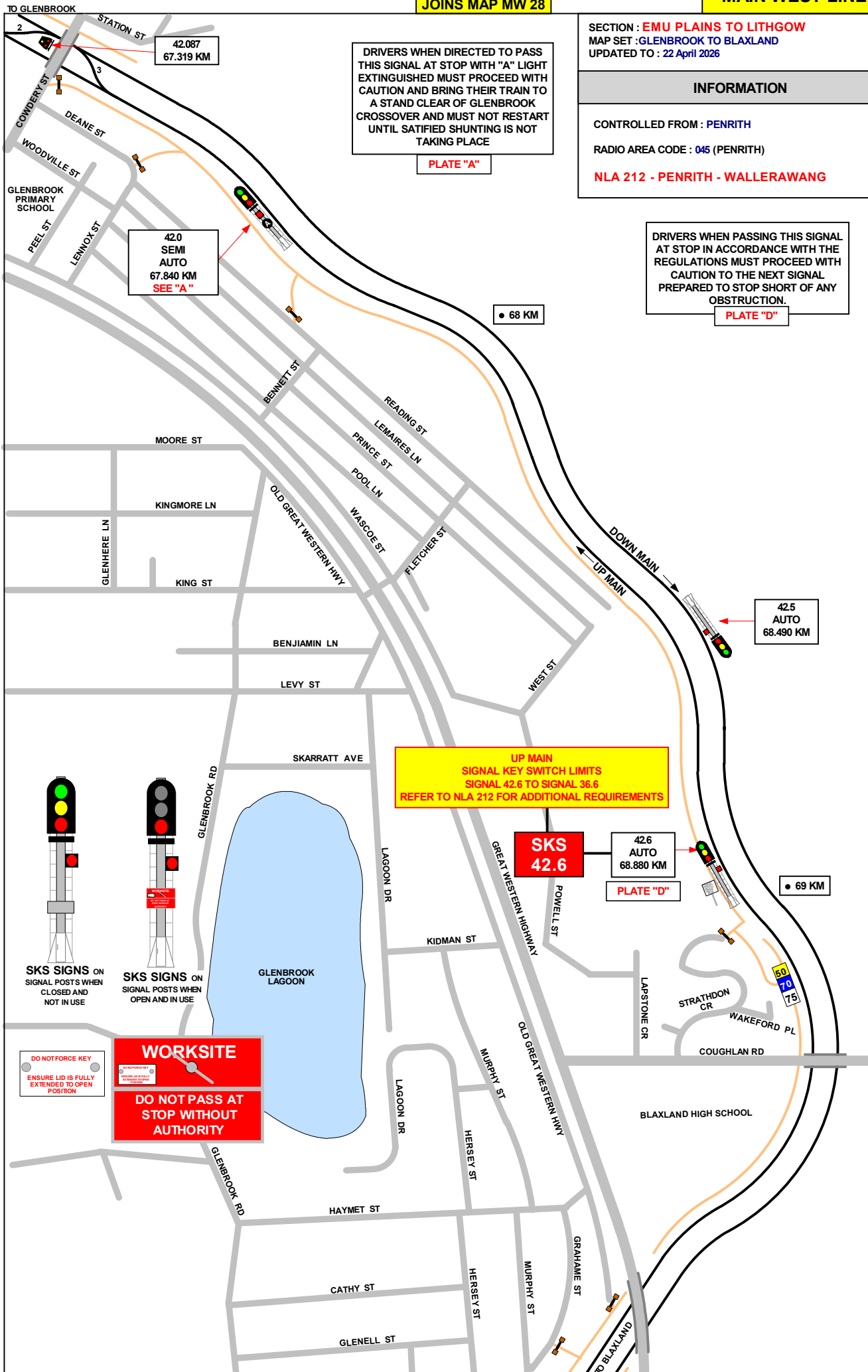
DRIVERS WHEN DIRECTED TO PASS
 THIS SIGNAL AT STOP WITH "A" LIGHT
 EXTINGUISHED MUST PROCEED WITH
 CAUTION AND BRING THEIR TRAIN TO
 A STAND CLEAR OF GLENBROOK
 CROSSOVER AND MUST NOT RESTART
 UNTIL SATISFIED SHUNTING IS NOT
 TAKING PLACE

PLATE "A"

DRIVERS WHEN PASSING
 THIS SIGNAL AT STOP IN
 ACCORDANCE WITH THE
 REGULATIONS MUST
 PROCEED WITH CAUTION
 TO THE NEXT SIGNAL
 PREPARED TO STOP
 SHORT OF ANY
 OBSTRUCTION.

PLATE "D"



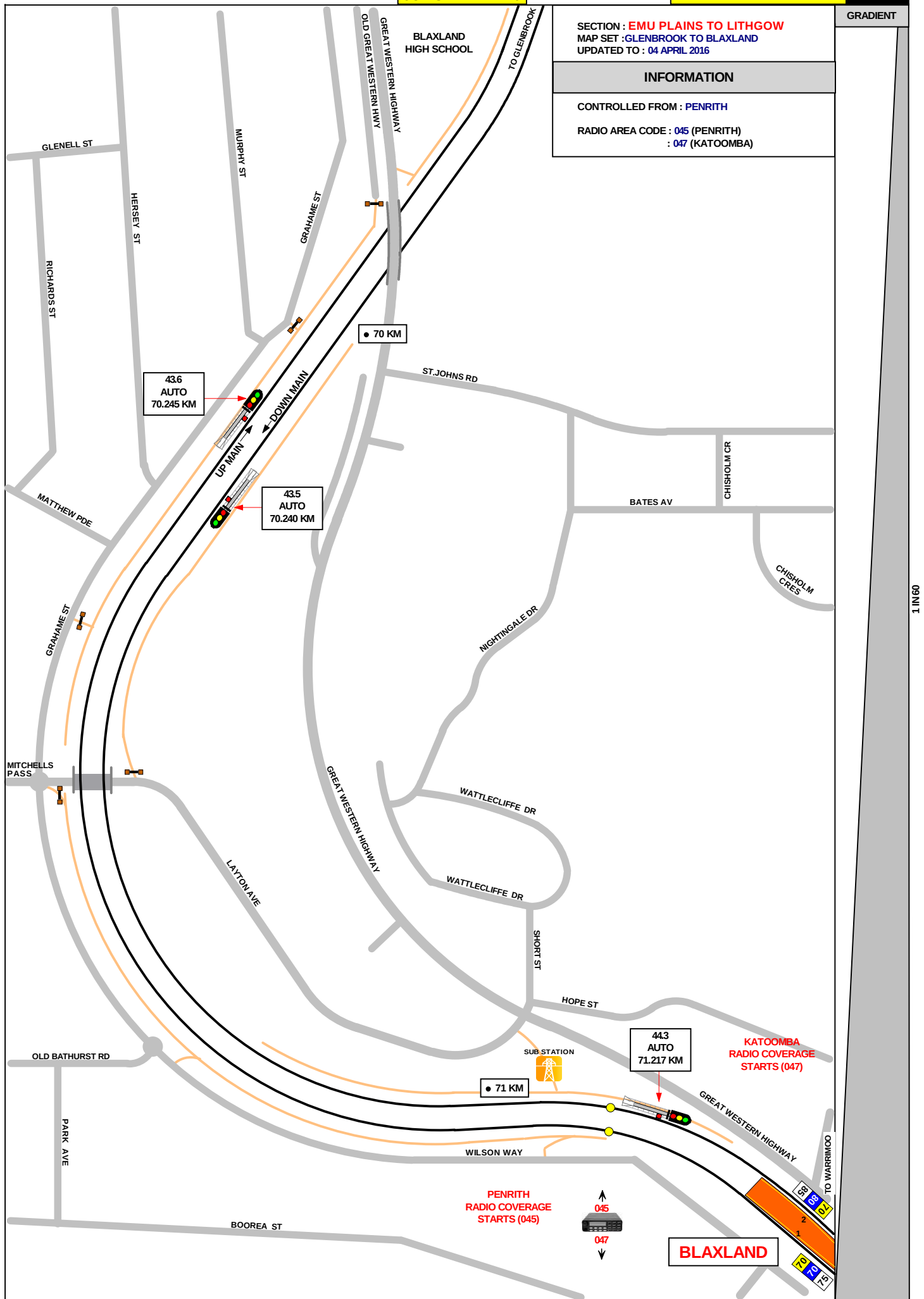


SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : GLENBROOK TO BLAXLAND
 UPDATED TO : 04 APRIL 2016

INFORMATION

CONTROLLED FROM : **PENRITH**

RADIO AREA CODE : **045** (PENRITH)
 : **047** (KATOOMBA)



BLAXLAND

SECTION : EMU PLAINS TO LITHGOW
MAP SET : BLAXLAND TO WARRIMOO
UPDATED TO : 04 APRIL 2016

INFORMATION

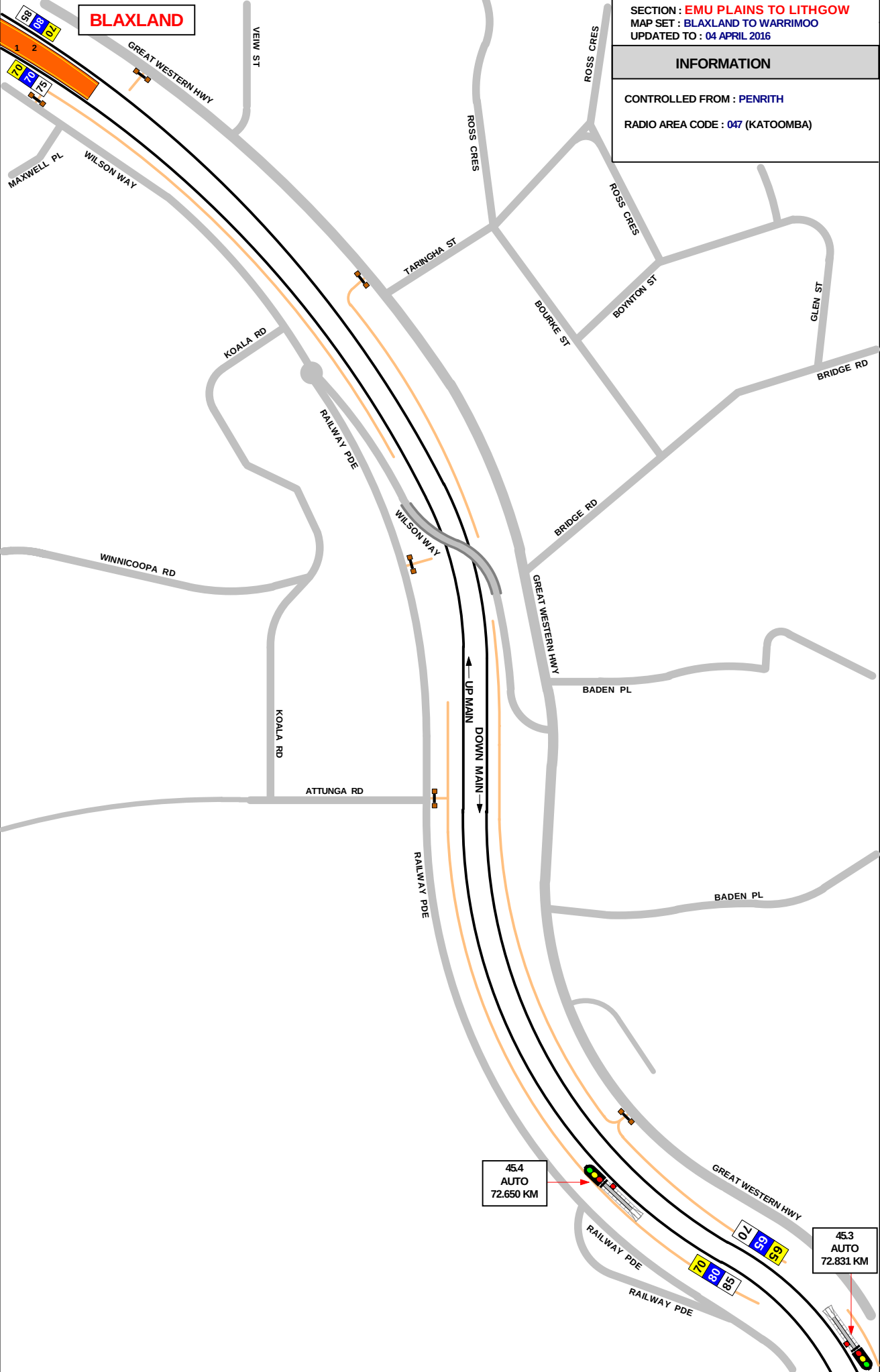
CONTROLLED FROM : PENRITH
RADIO AREA CODE : 047 (KATOOMBA)

GRADIENT

1 IN 60

1 IN 100

1 IN 66



SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **WARRIMOO TO VALLEY HEIGHTS**
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : **PENRITH / OMCC**

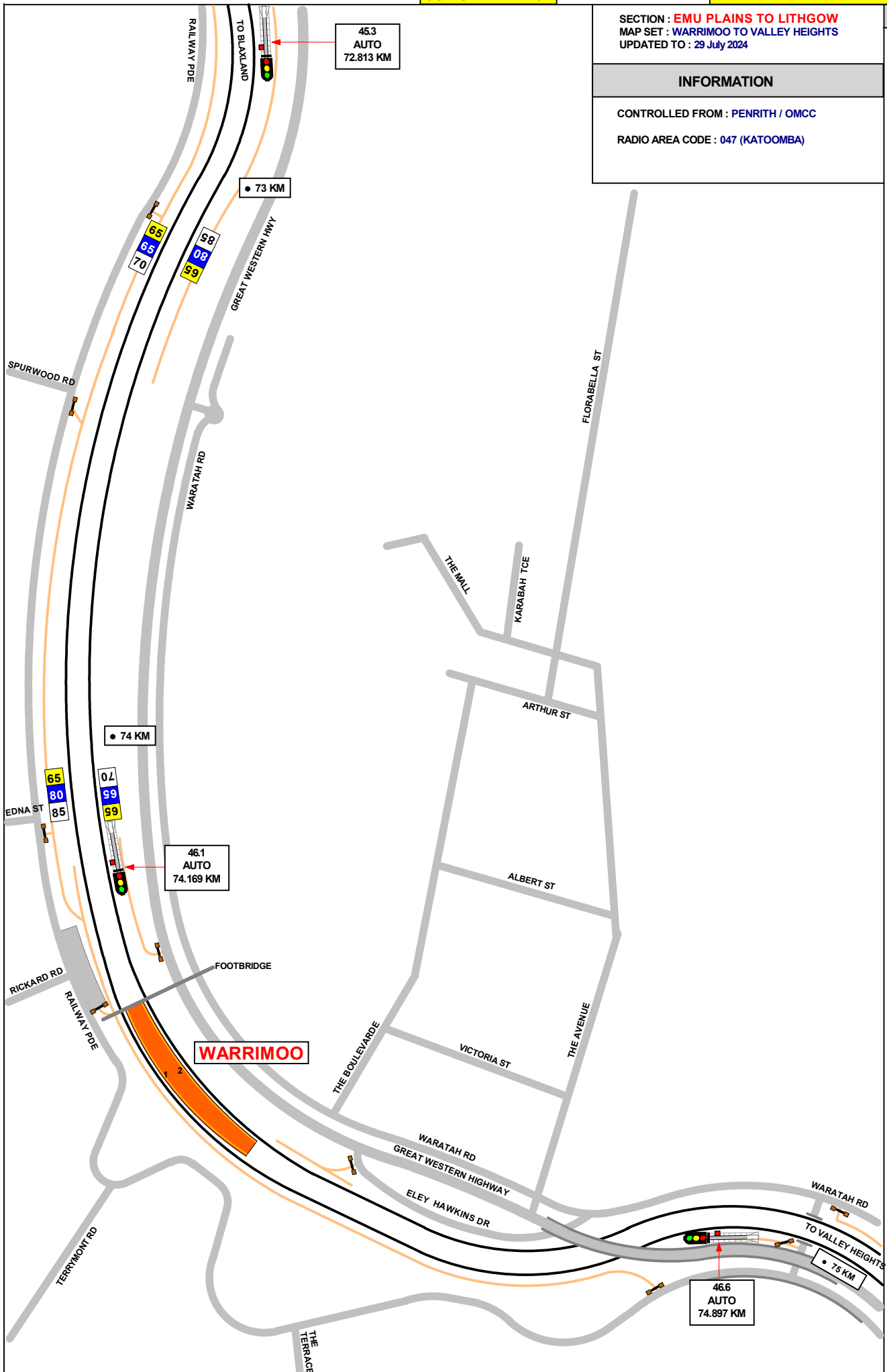
RADIO AREA CODE : **047 (KATOOMBA)**

GRADIENT

1 IN 68

1 IN 60

1 IN 97

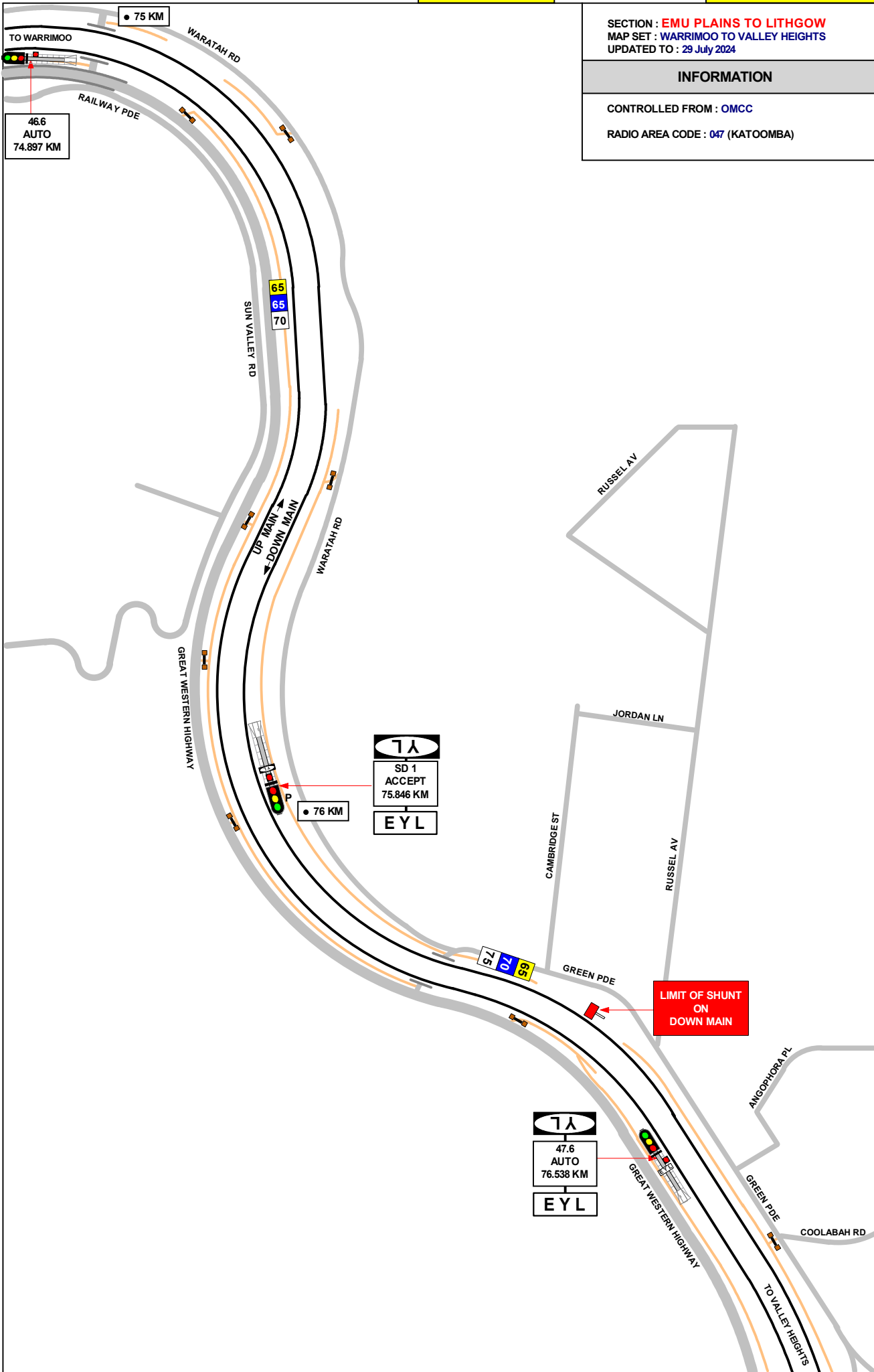


SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **WARRIMOO TO VALLEY HEIGHTS**
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)





SIGNAL	DESTINATION	INDICATION
SD 28	DOWN MAIN (M)	--
	DOWN MAIN (S)	DM
	DOWN REFUGE (S)	DR
	STORAGE SIDING (S)	SS



SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **SPRINGWOOD TO FAULCONBRIDGE**
 UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : **OMCC**

RADIO AREA CODE : **047 (KATOOMBA)**

SIGNAL	DESTINATION	INDICATION
SD 42	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

GRADIENT

LEVEL

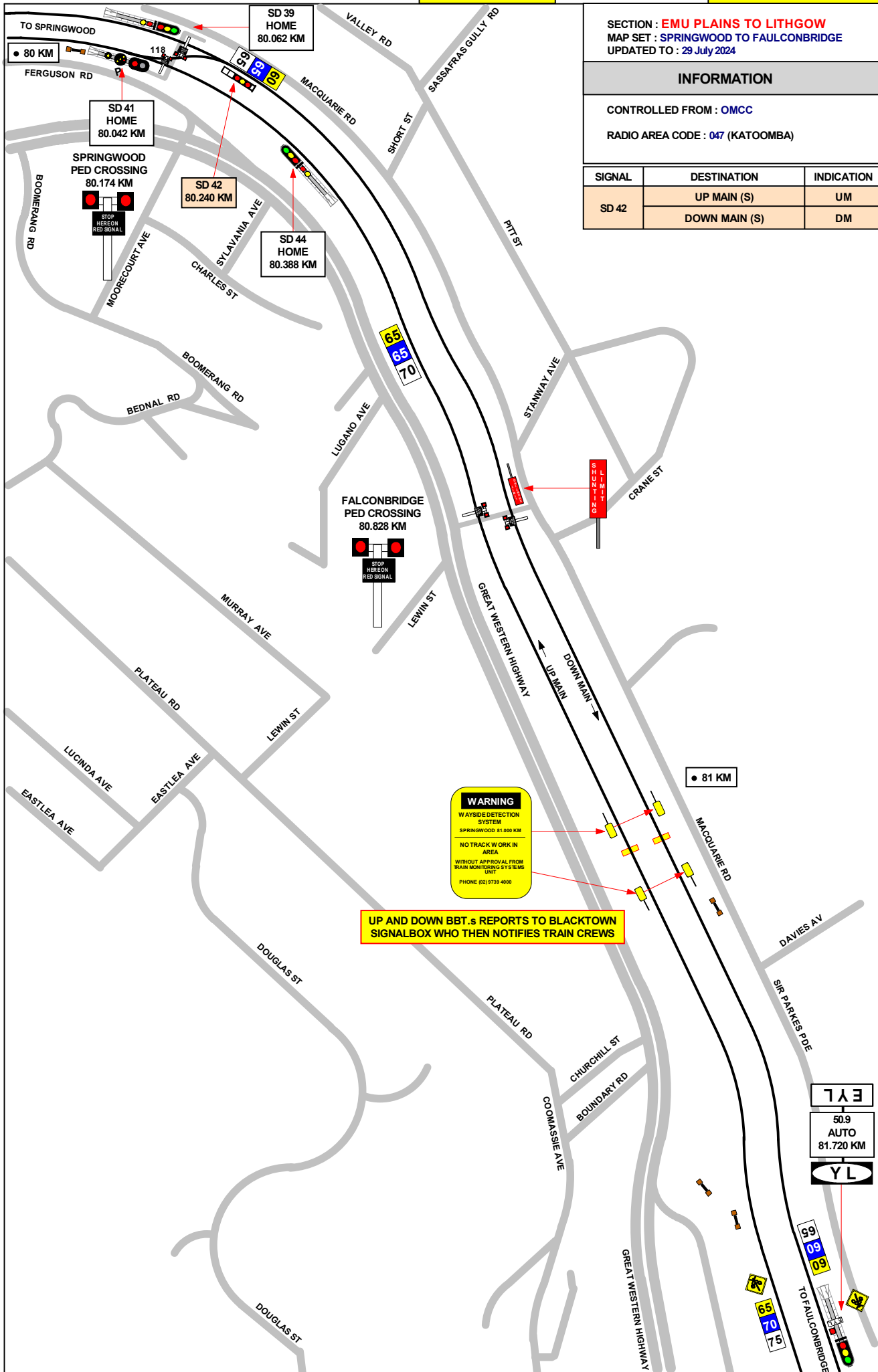
1 IN 40

1 IN 33

1 IN 66

1 IN 33

1 IN 31



SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **SPRINGWOOD TO FAULCONBRIDGE**
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

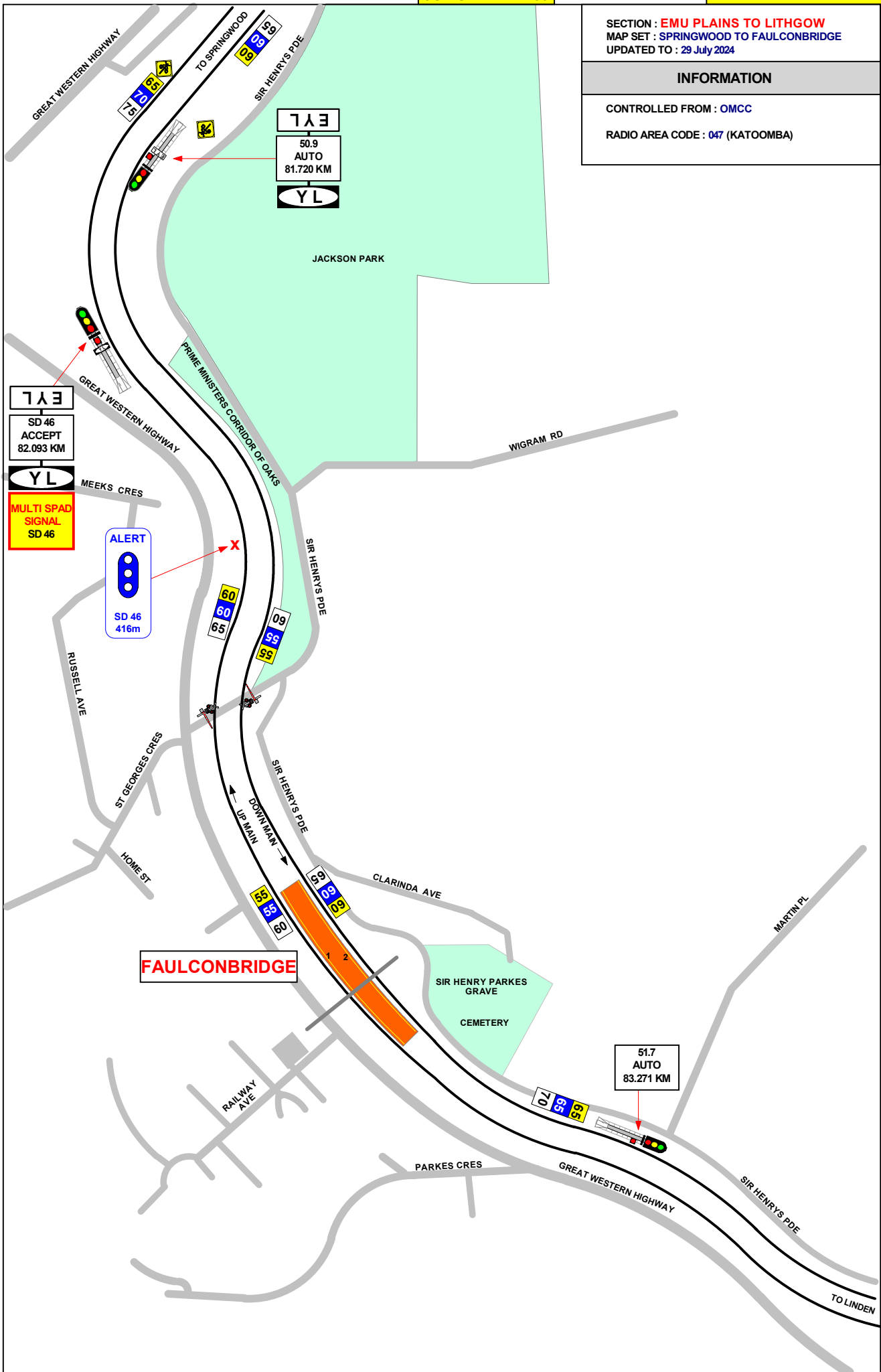
GRADIENT

1 IN 31

1 IN 33

LEVEL

1 IN 31



SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **FAULCONBRIDGE TO LINDEN**
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

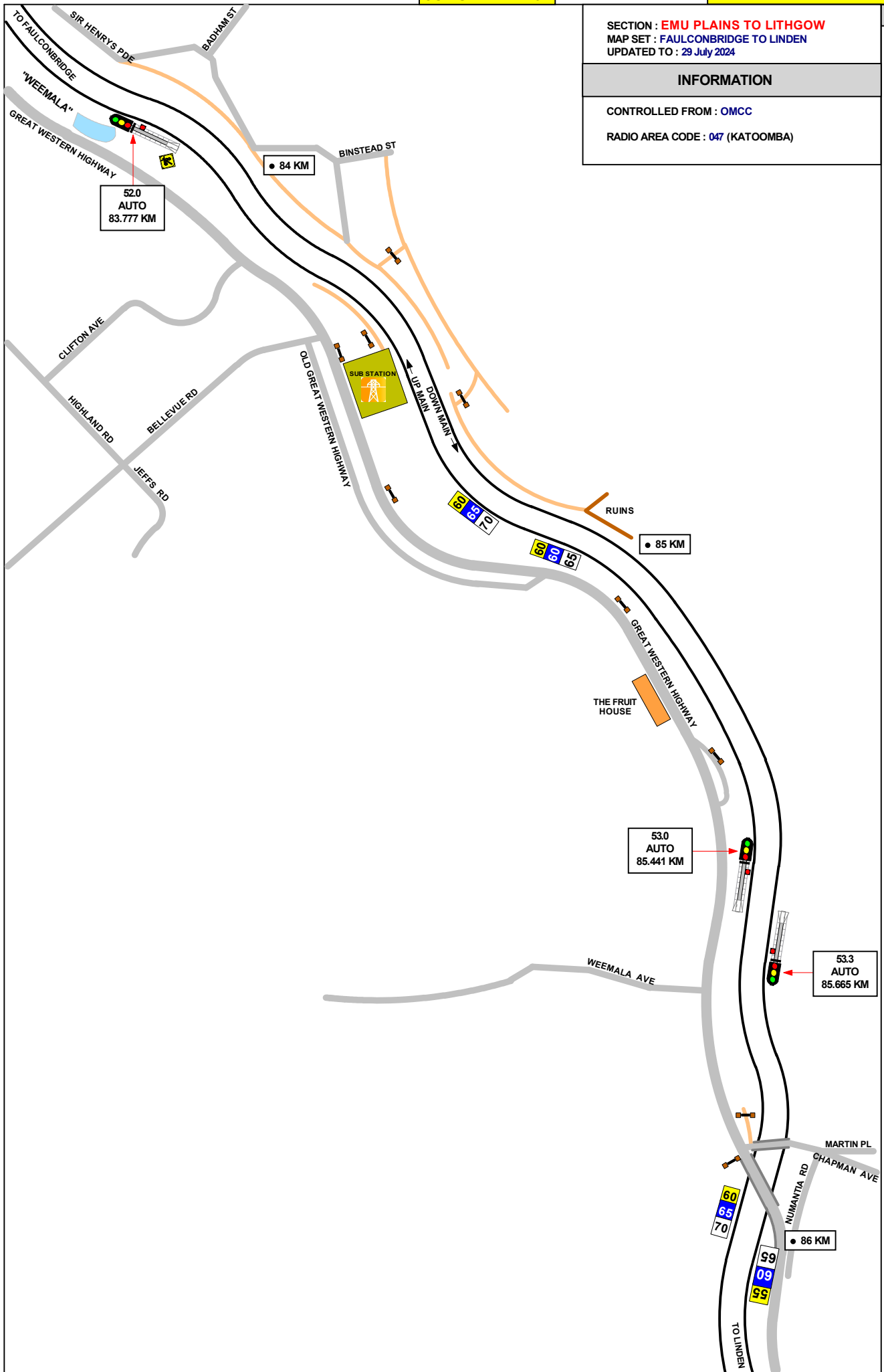
RADIO AREA CODE : 047 (KATOOMBA)

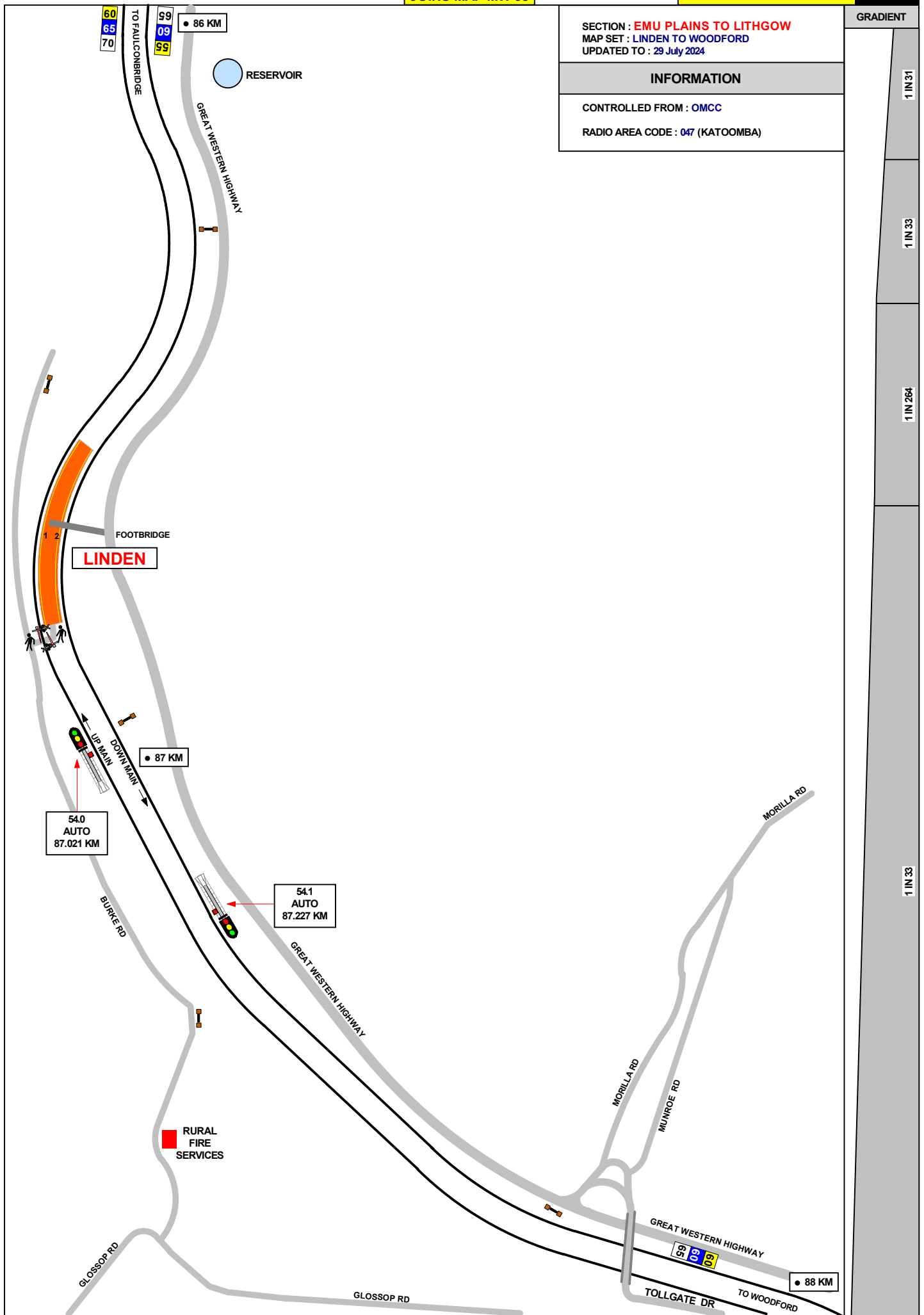
GRADIENT

1 IN 31

1 IN 33

1 IN 31





SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **LINDEN TO WOODFORD**
 UPDATED TO : **29 July 2024**

INFORMATION

CONTROLLED FROM : **OMCC**
 RADIO AREA CODE : **047 (KATOOMBA)**

GRADIENT

1 IN 33

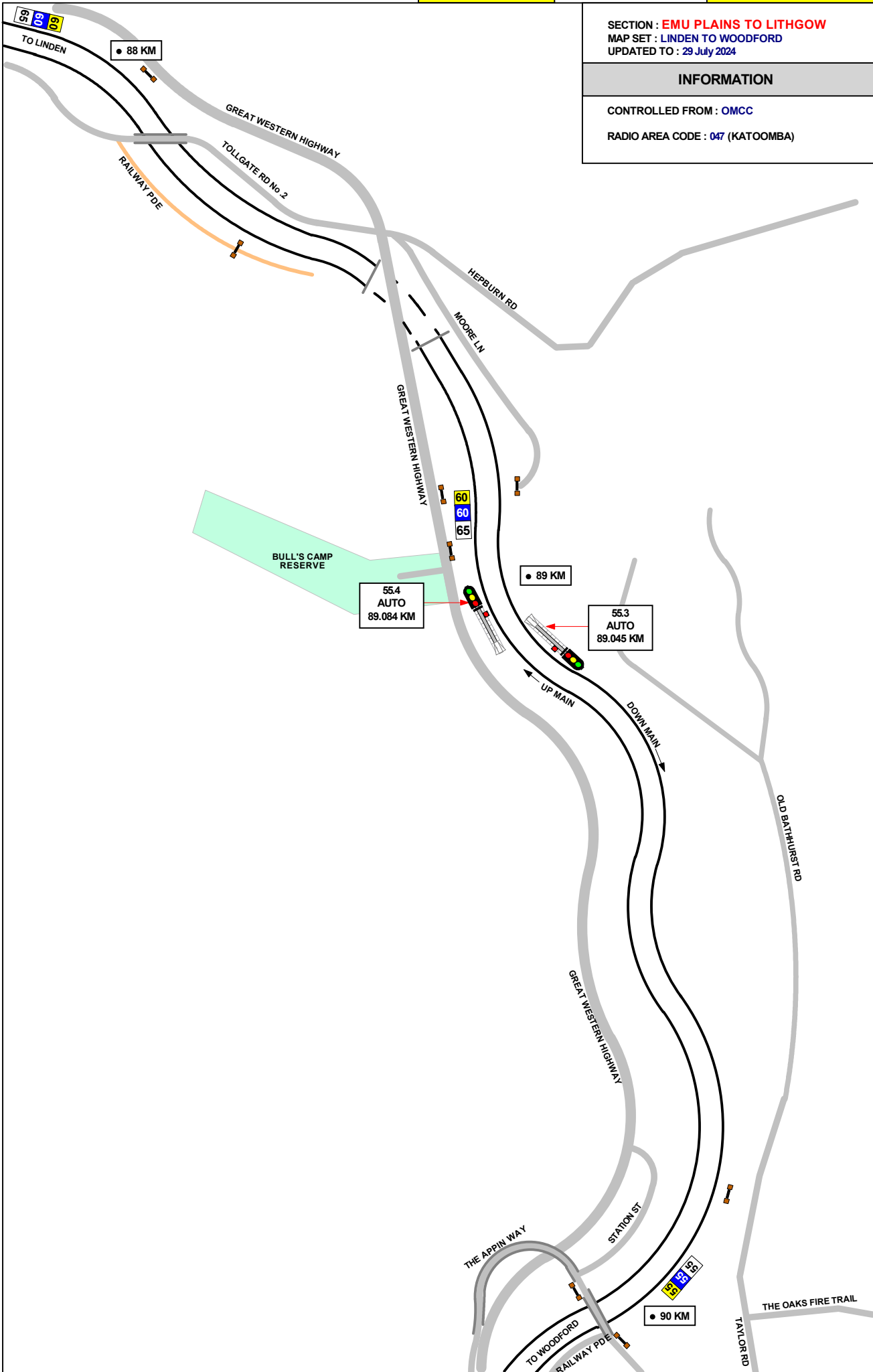
1 IN 40

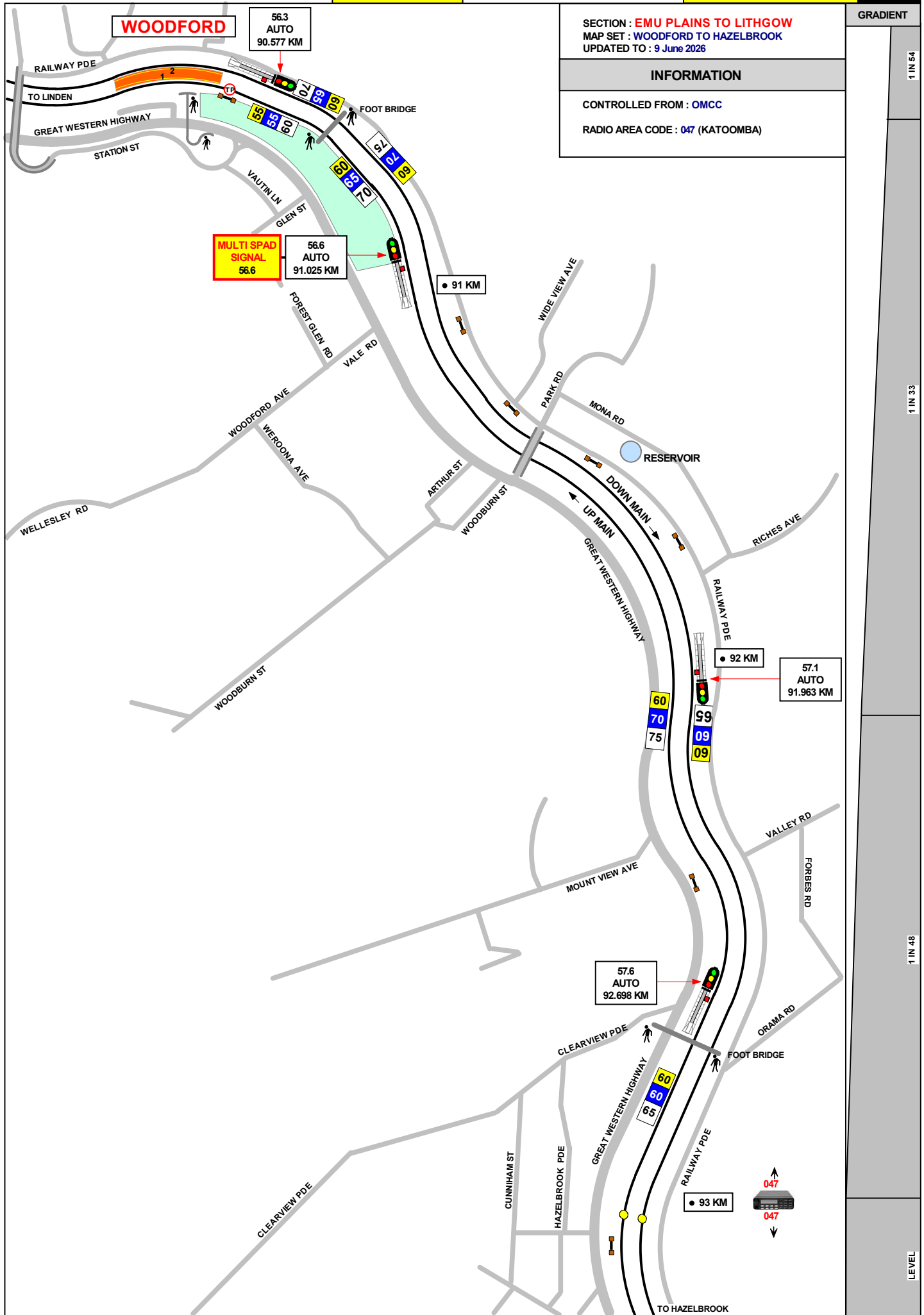
1 IN 66

1 IN 51

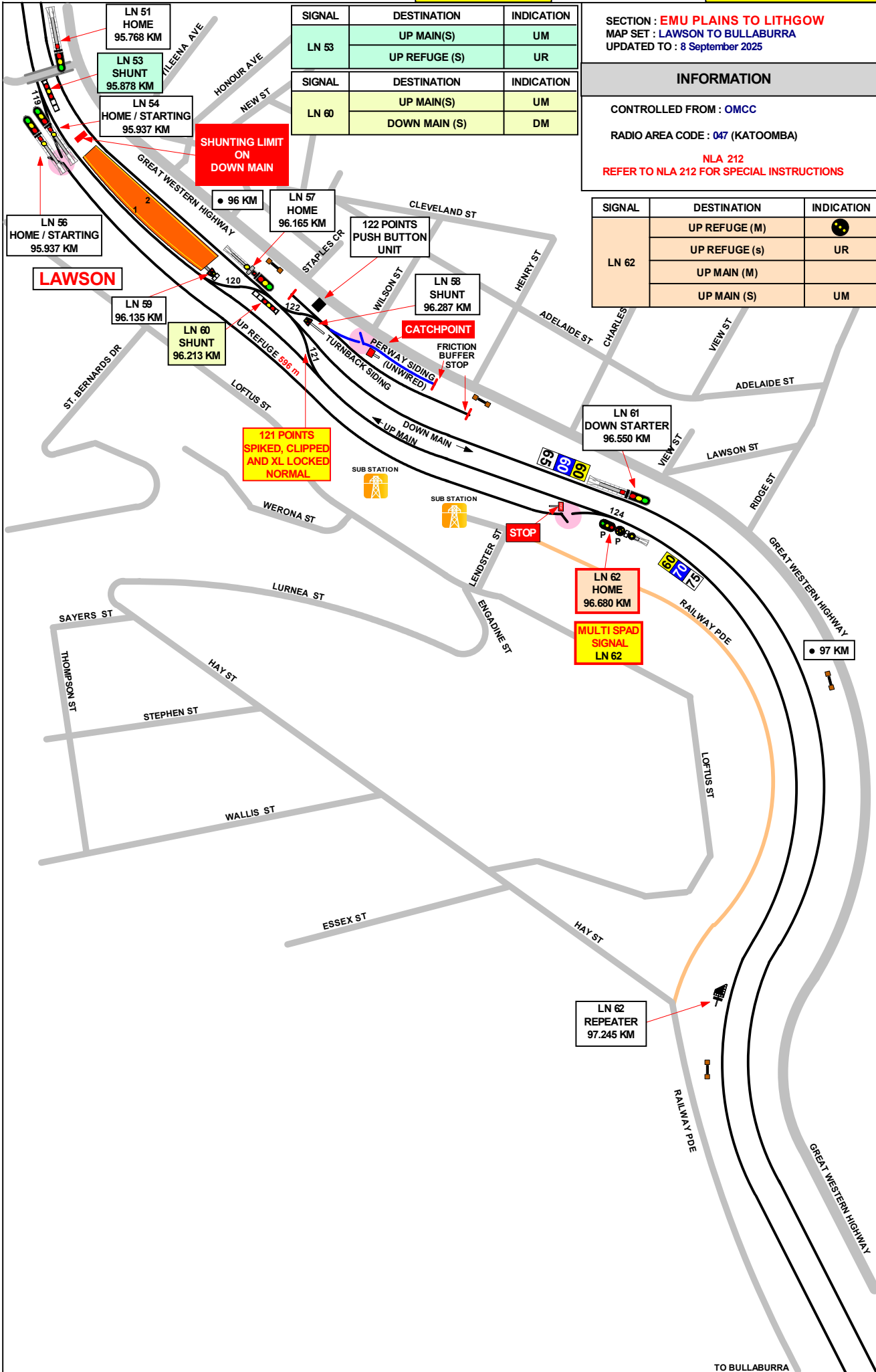
1 IN 50

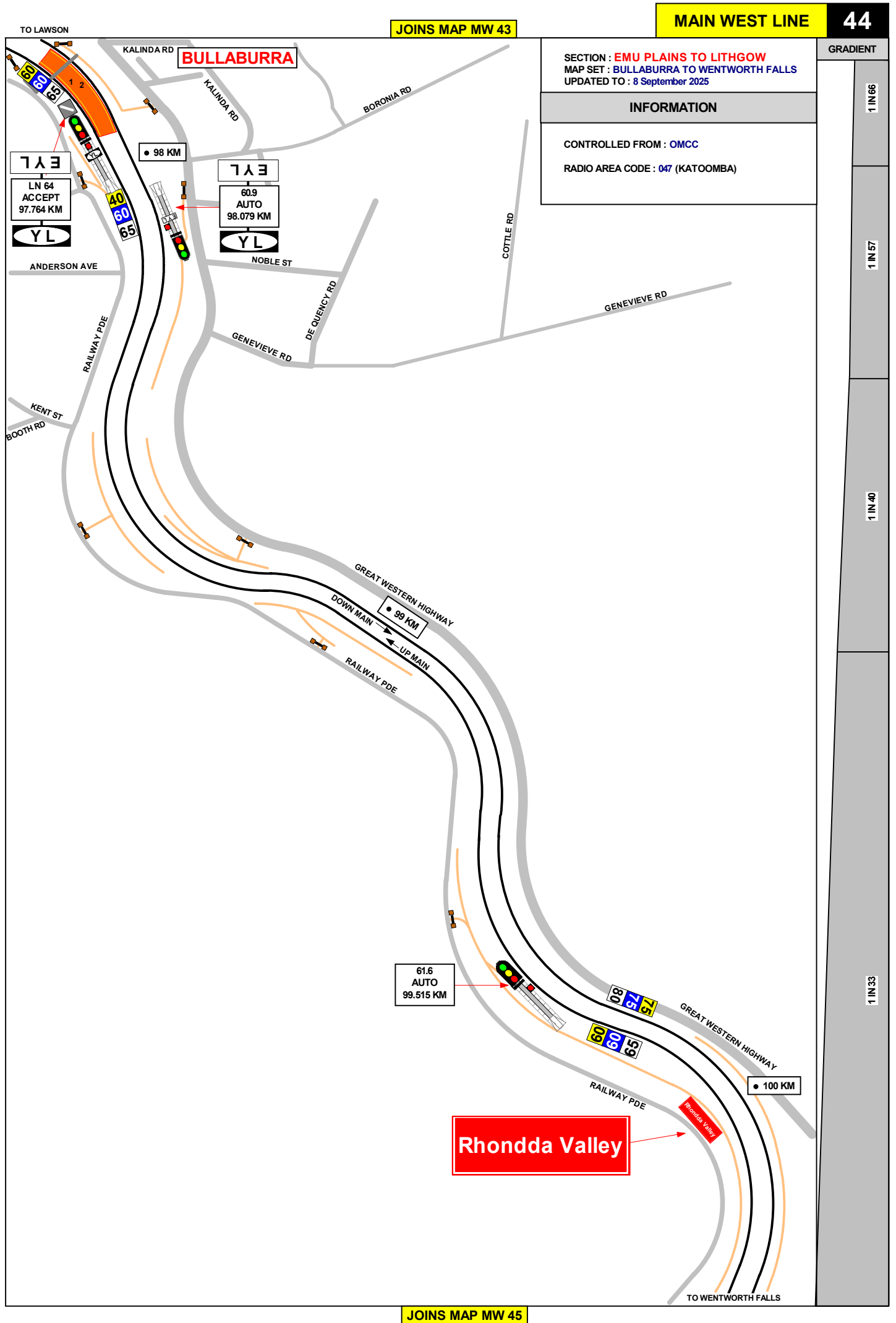
1 IN 54











JOINS MAP MW 43

MAIN WEST LINE

44

GRADIENT

SECTION : EMU PLAINS TO LITHGOW
MAP SET : BULLABURRA TO WENTWORTH FALLS
UPDATED TO : 8 September 2025

INFORMATION

CONTROLLED FROM : OMCC
RADIO AREA CODE : 047 (KATOOMBA)

1 IN 66

1 IN 57

1 IN 40

1 IN 33

JOINS MAP MW 45

SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **BULLABURRA TO WENTWORTH FALLS**
 UPDATED TO : 8 September 2025

INFORMATION

CONTROLLED FROM : **OMCC**

RADIO AREA CODE : **047 (KATOOMBA)**

NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

GRADIENT

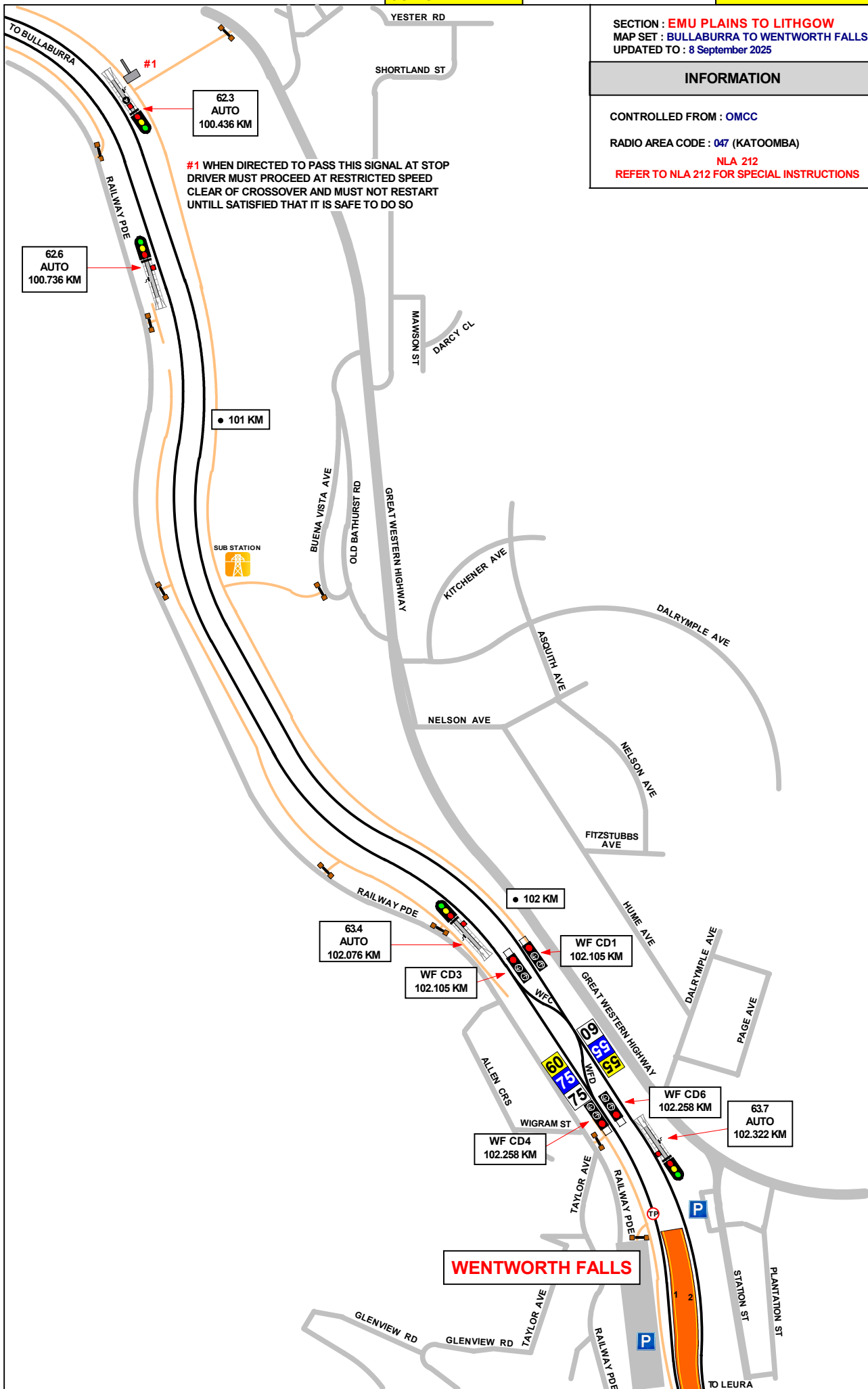
1 IN 33

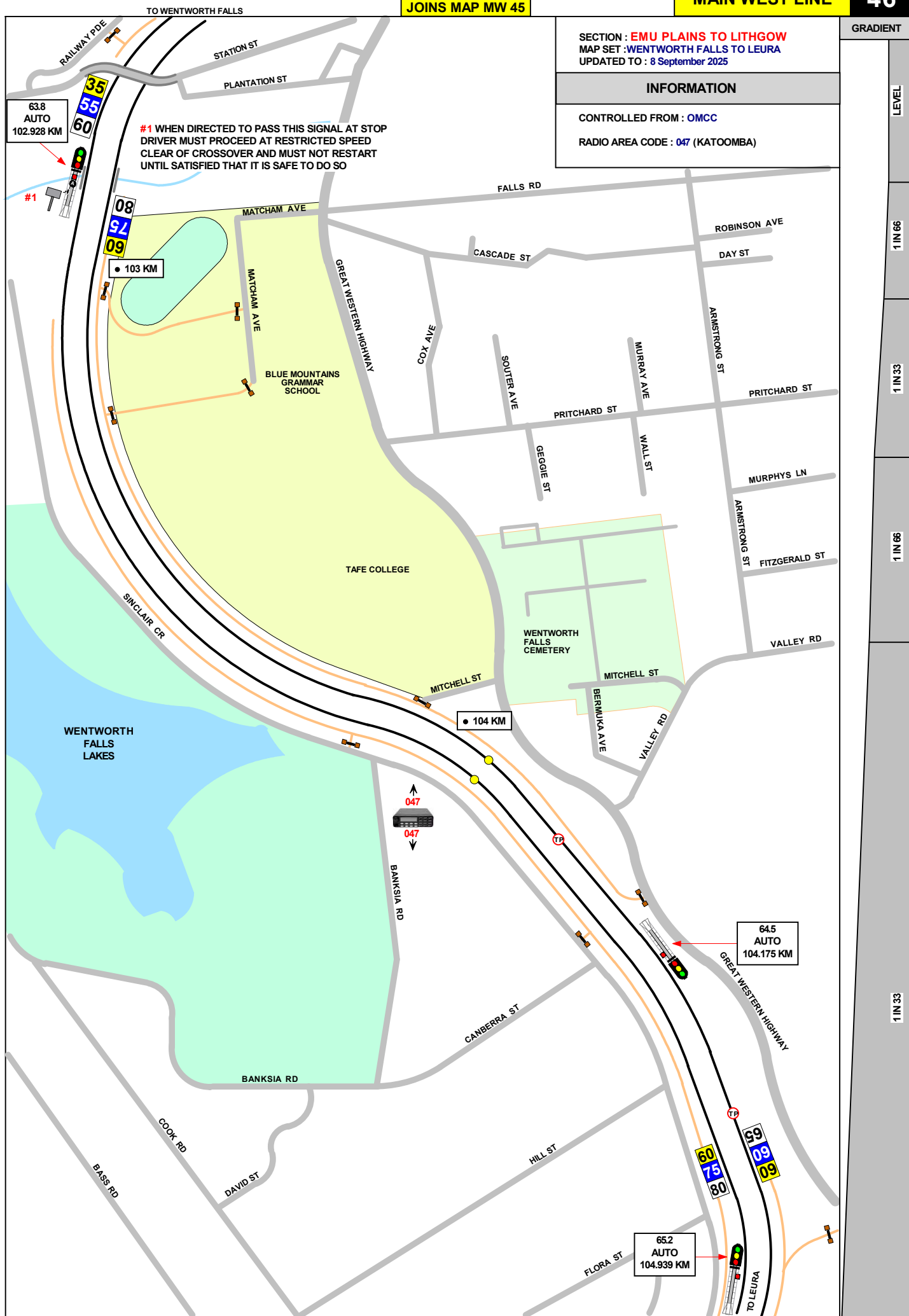
1 IN 73

LEVEL

1 IN 330

LEVEL





SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **WENTWORTH FALLS TO LEURA**
 UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : **OMCC**

RADIO AREA CODE : **047 (KATOOMBA)**

GRADIENT

1 IN 33

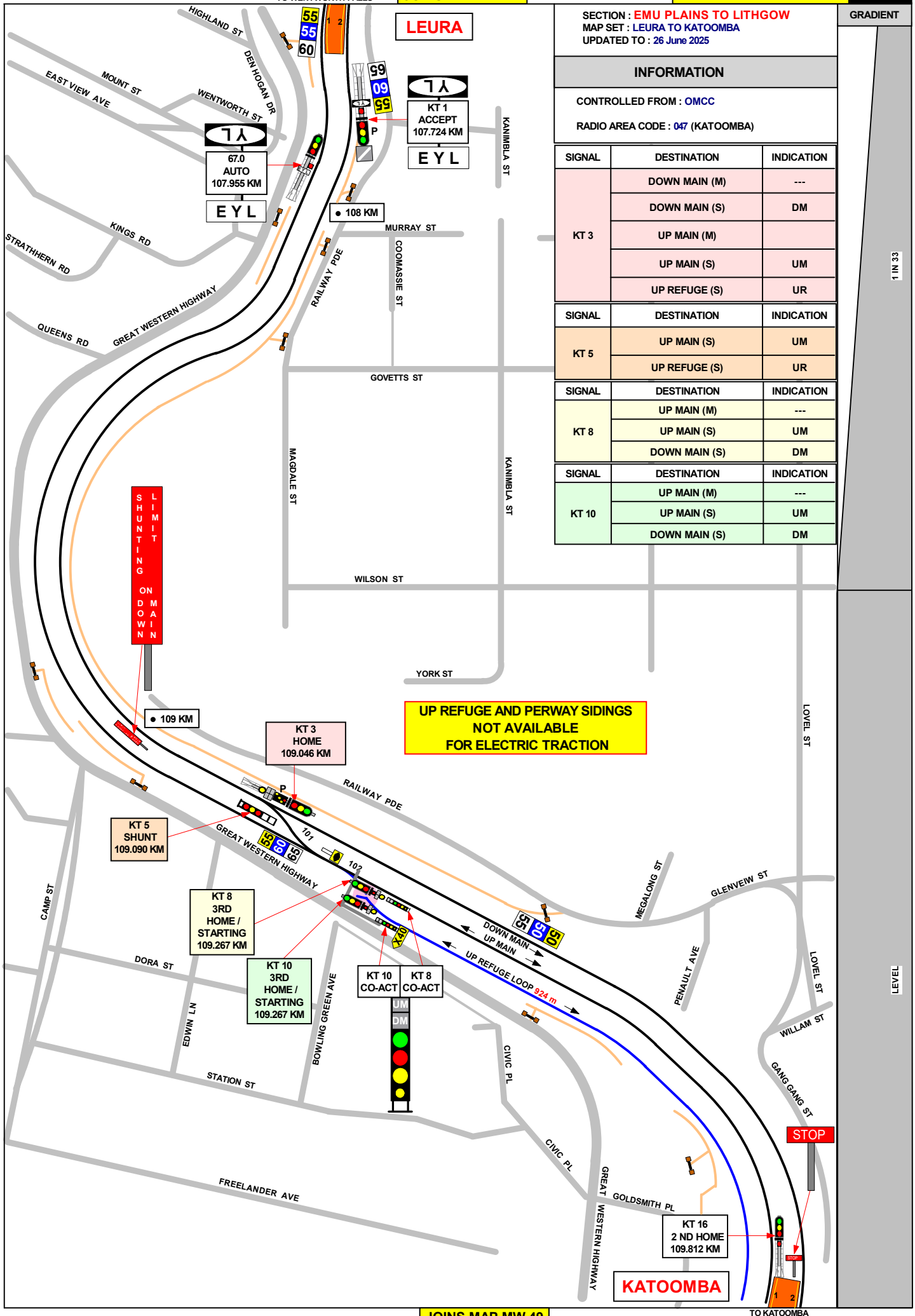
LEVEL

1 IN 33



TO WENTWORTH FALLS

JOINS MAP MW 47



SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **LEURA TO KATOOMBA**
UPDATED TO : 26 June 2025

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

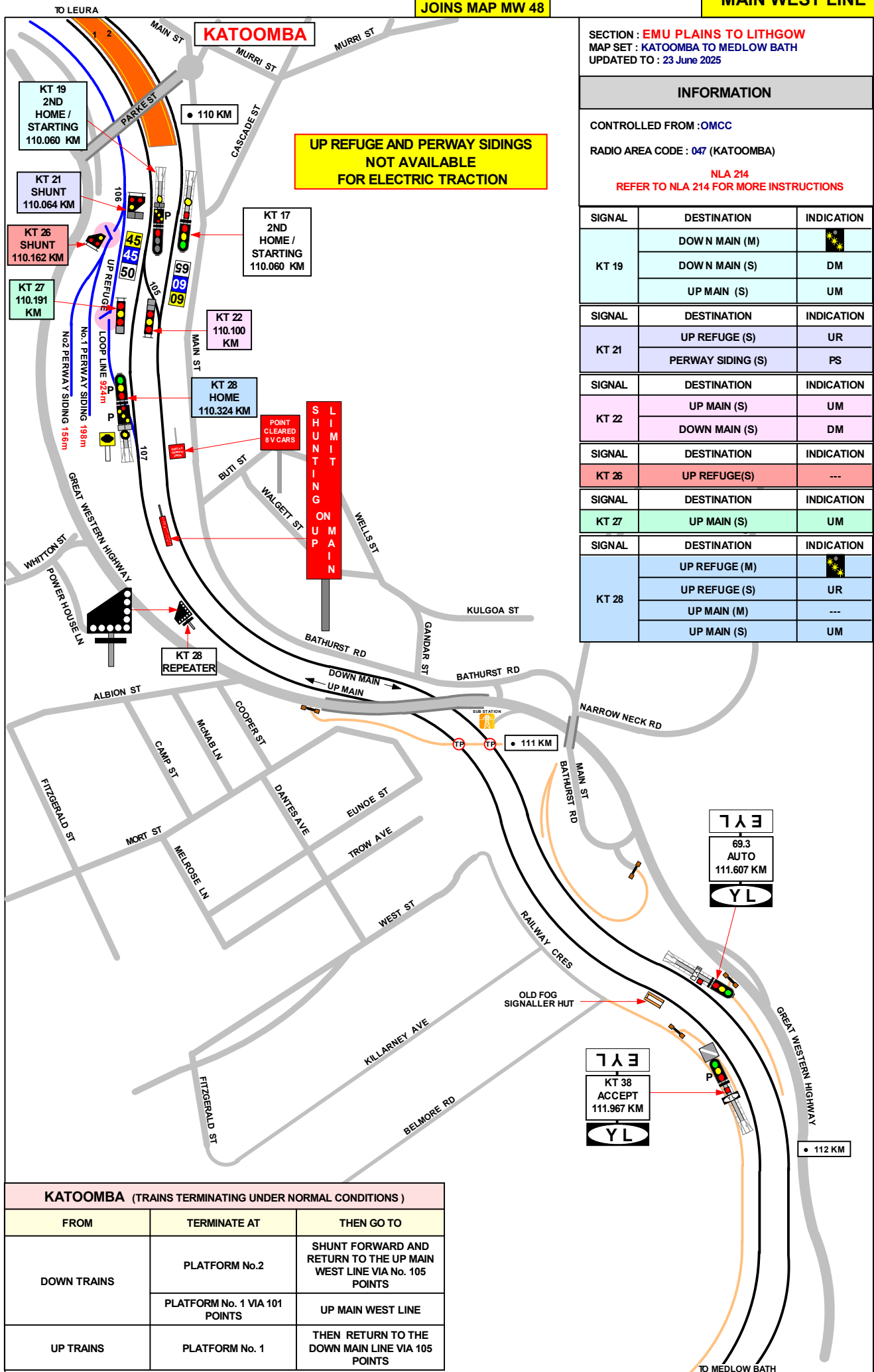
SIGNAL	DESTINATION	INDICATION
KT 3	DOWN MAIN (M)	---
	DOWN MAIN (S)	DM
	UP MAIN (M)	
	UP MAIN (S)	UM
	UP REFUGE (S)	UR
SIGNAL	DESTINATION	INDICATION
KT 5	UP MAIN (S)	UM
	UP REFUGE (S)	UR
SIGNAL	DESTINATION	INDICATION
KT 8	UP MAIN (M)	---
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM
SIGNAL	DESTINATION	INDICATION
KT 10	UP MAIN (M)	---
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

UP REFUGE AND PERWAY SIDINGS
NOT AVAILABLE
FOR ELECTRIC TRACTION

JOINS MAP MW 49

TO KATOOMBA

KATOOMBA



SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **KATOOMBA TO MEDLOW BATH**
 UPDATED TO : 25 August 2026

INFORMATION

CONTROLLED FROM : **OMCC**
 RADIO AREA CODE : **047** (KATOOMBA)
048 (MT VICTORIA)

NLA 212
 REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

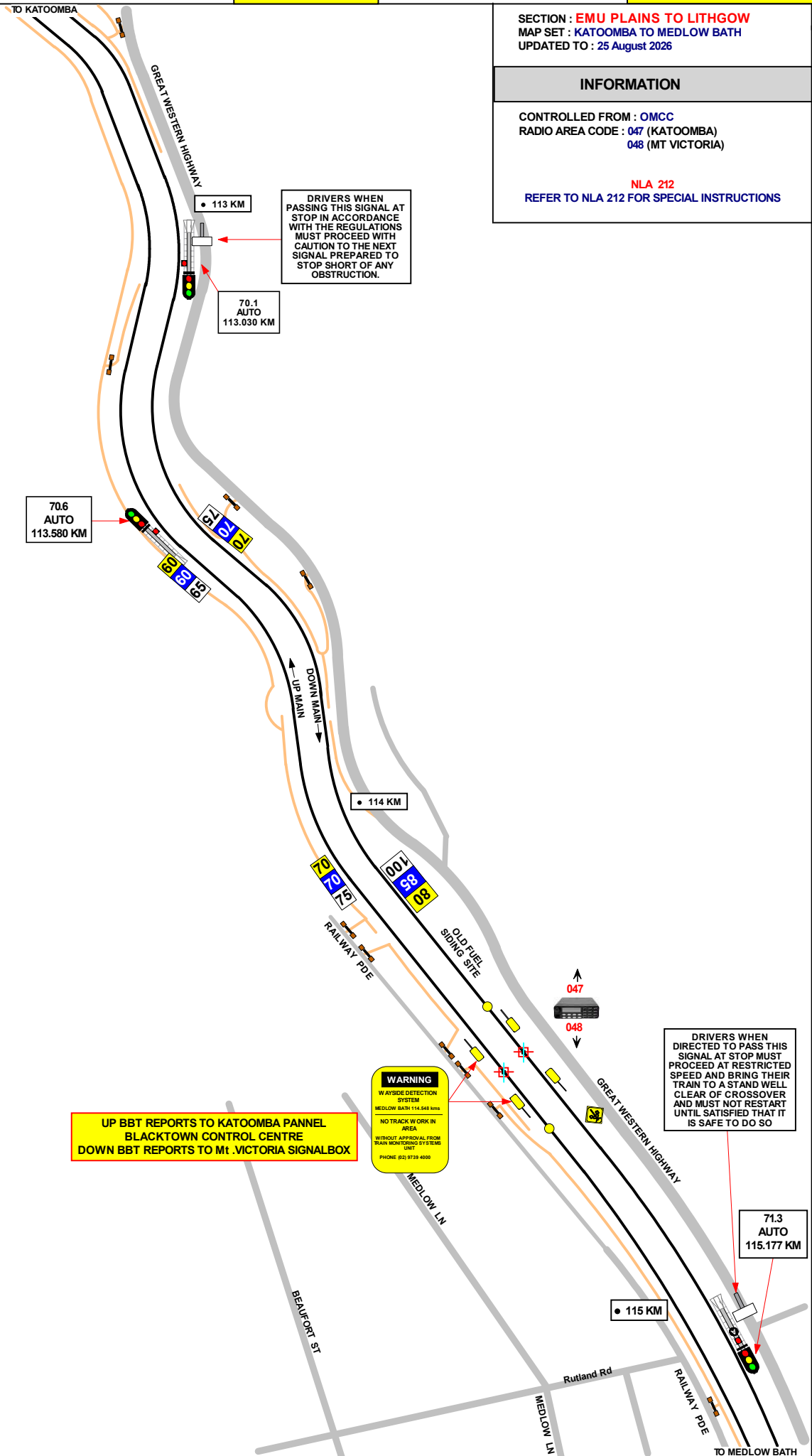
GRADIENT

1 IN 132

LEVEL

1 IN 66

1 IN 264





SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **MEDLOW BATH TO BLACKHEATH**
 UPDATED TO : 18 March 2026

INFORMATION

CONTROLLED FROM : **OMCC**

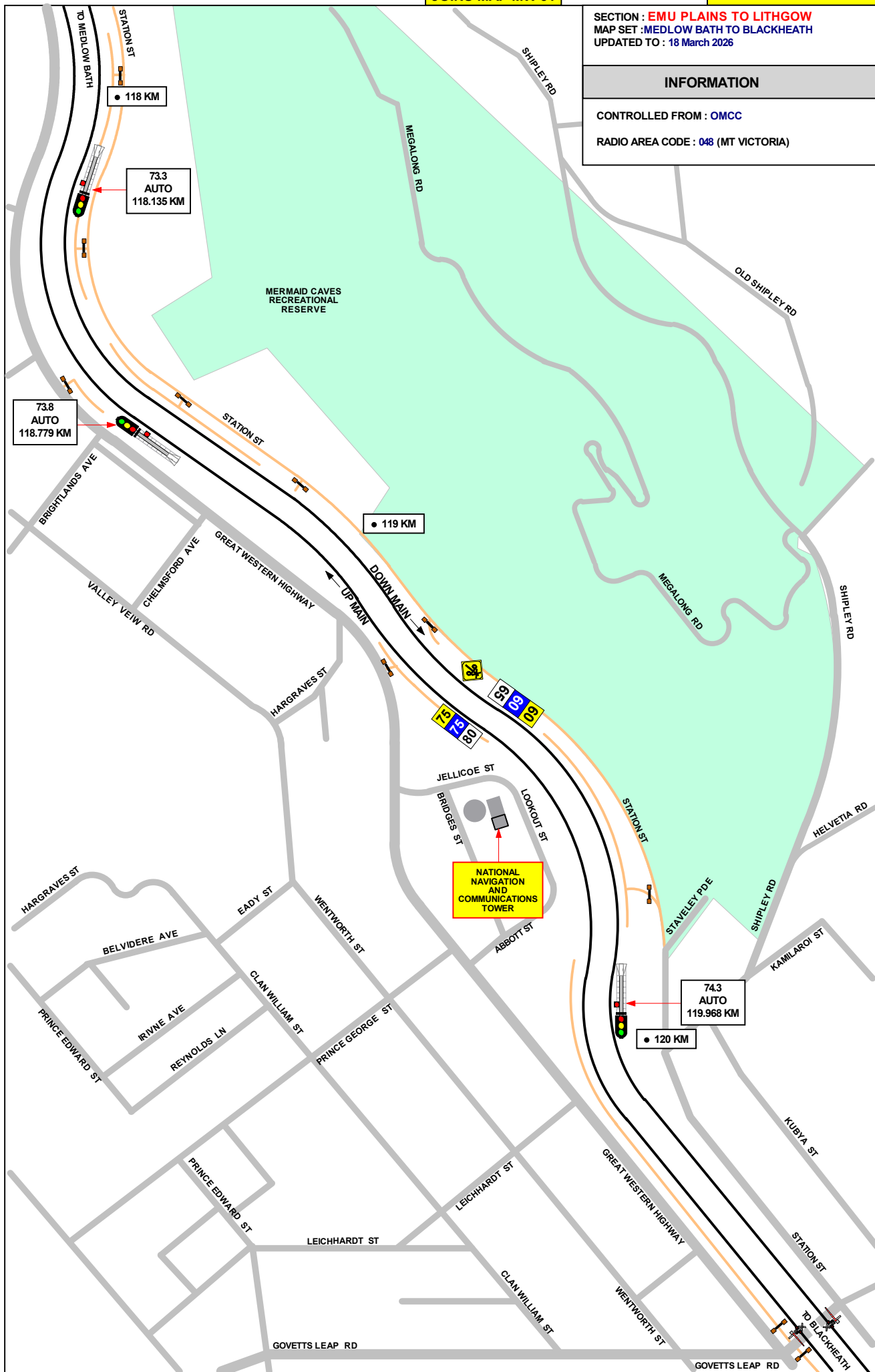
RADIO AREA CODE : **048** (MT VICTORIA)

GRADIENT

LEVEL

1 IN 60

LEVEL



SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **MEDLOW BATH TO BLACKHEATH**
 UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : **OMCC**

RADIO AREA CODE : **048 (MT VICTORIA)**

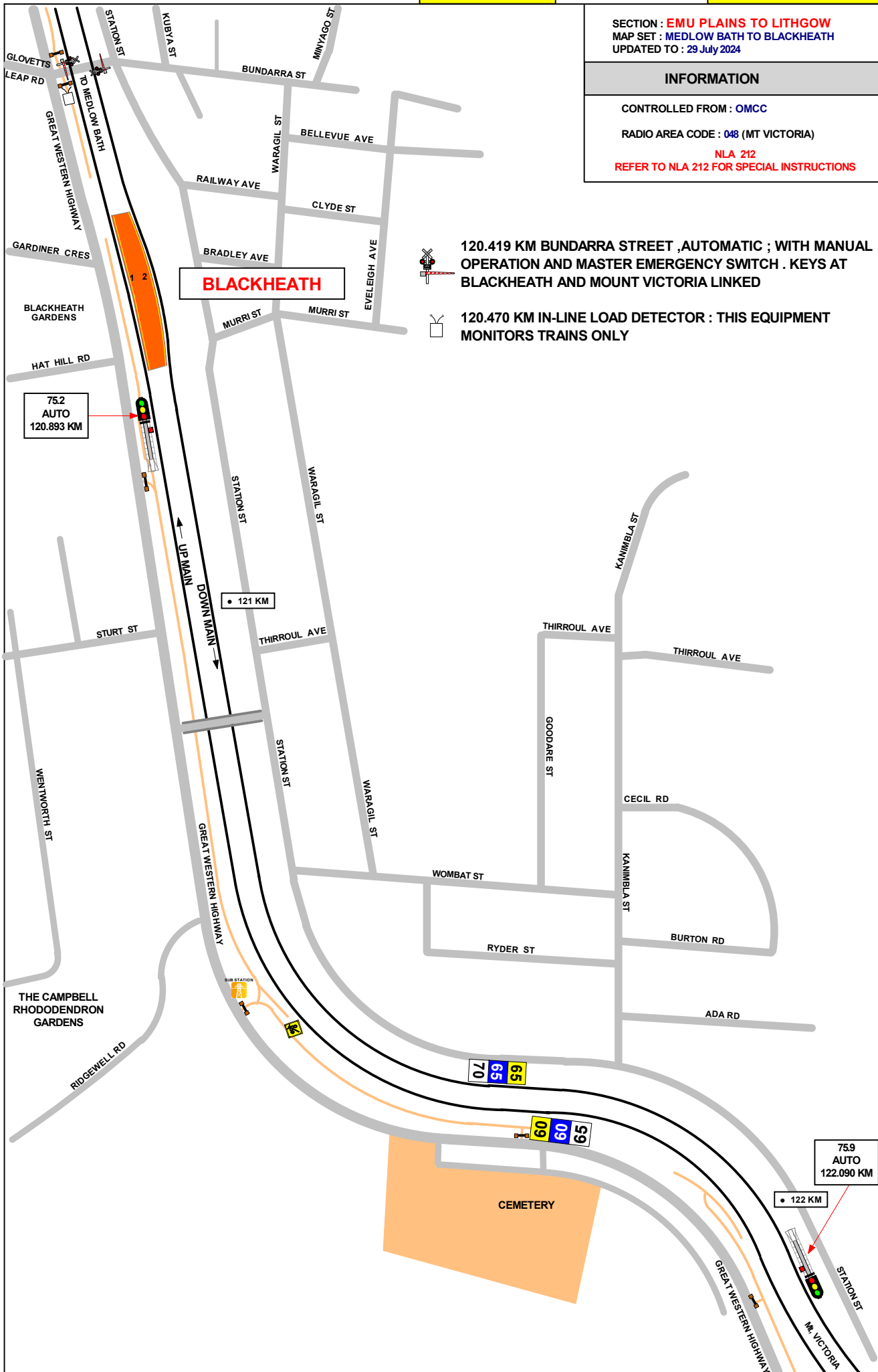
NLA 212
 REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS



120.419 KM BUNDARRA STREET ,AUTOMATIC ; WITH MANUAL OPERATION AND MASTER EMERGENCY SWITCH . KEYS AT BLACKHEATH AND MOUNT VICTORIA LINKED



120.470 KM IN-LINE LOAD DETECTOR : THIS EQUIPMENT MONITORS TRAINS ONLY



SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **BLACKHEATH TO MT VICTORIA**
UPDATED TO : 29 July 2024

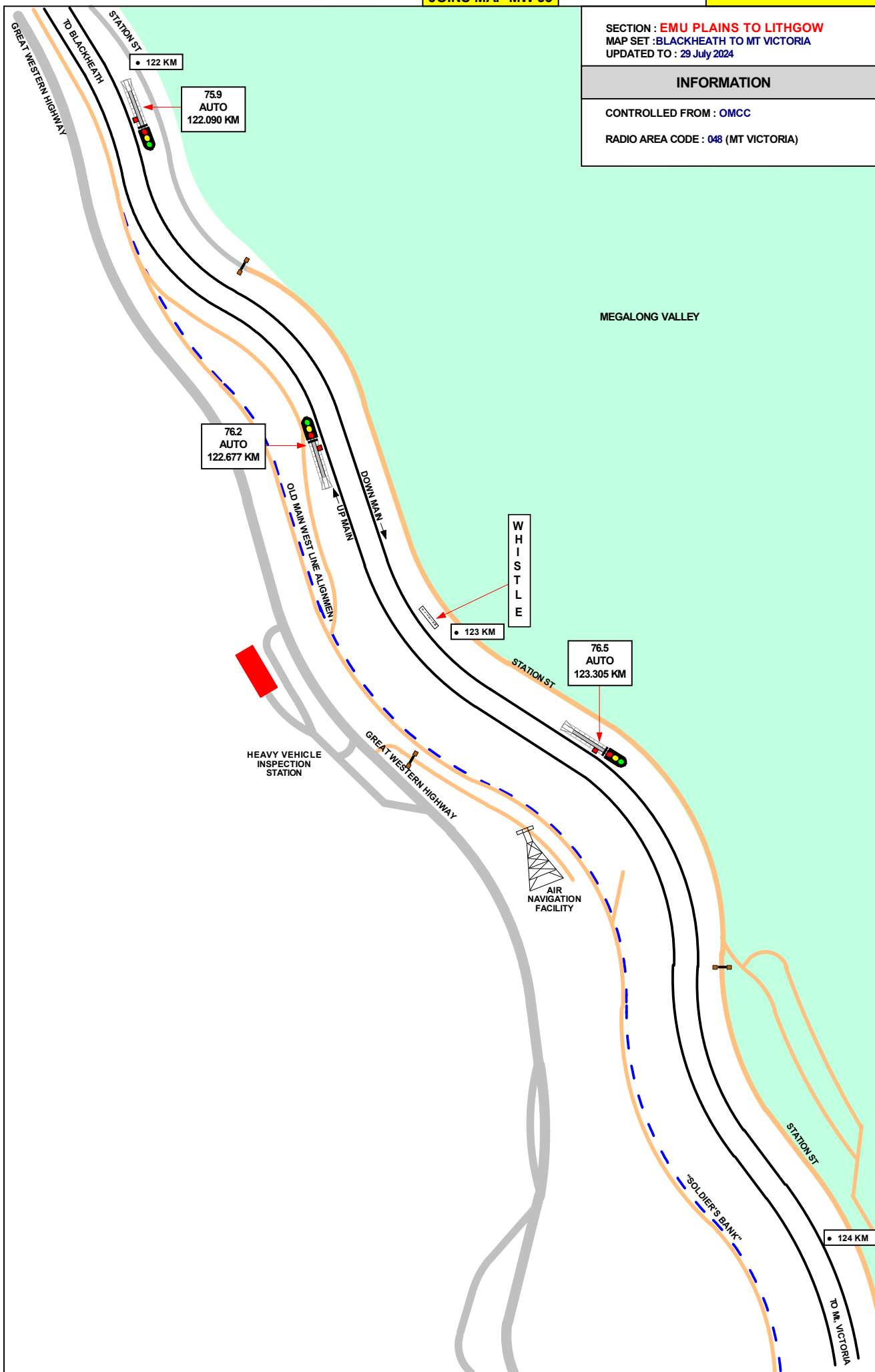
INFORMATION

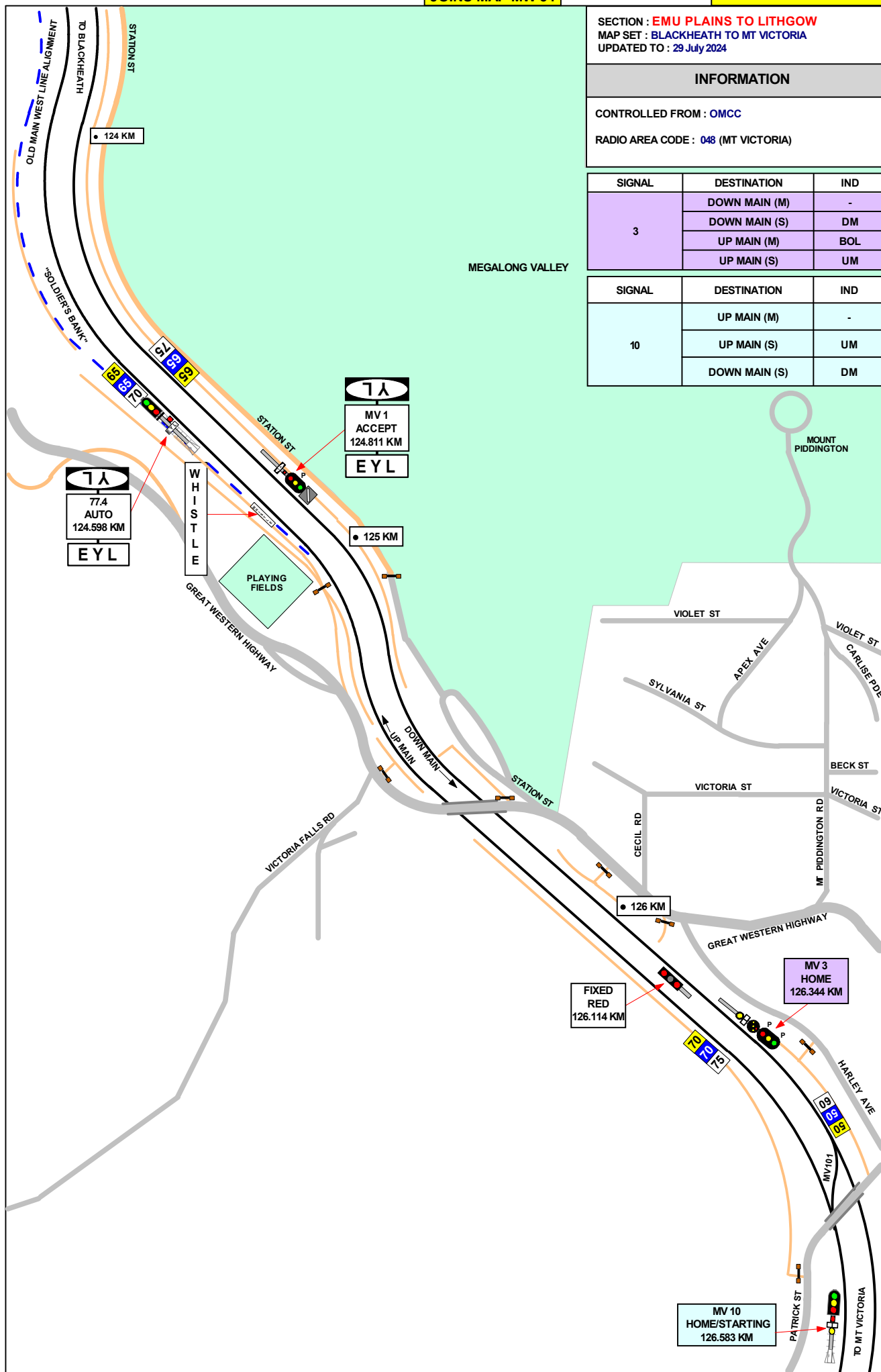
CONTROLLED FROM : **OMCC**

RADIO AREA CODE : **048** (MT VICTORIA)

1 IN 200

1 IN 80





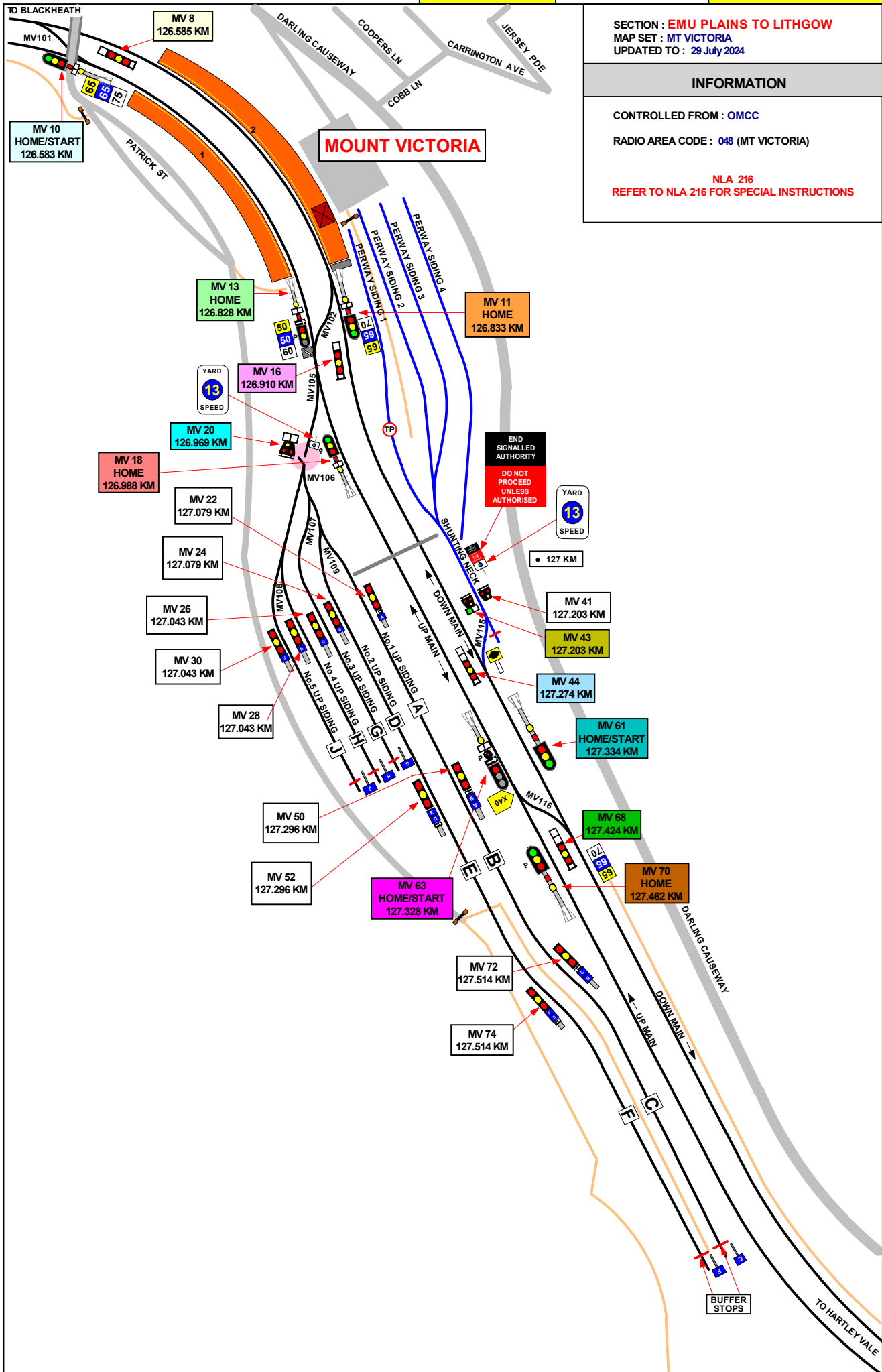
SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **MT VICTORIA**
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

NLA 216
REFER TO NLA 216 FOR SPECIAL INSTRUCTIONS



SECTION : EMU PLAINS TO LITHGOW
MAP SET : MT VICTORIA
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM: OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

NLA 216
REFER TO NLA 216 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	IND
10	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
8	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
13	UP MAIN (M)	-
	UP MAIN (S)	UM
	No.1 UP SIDING (S)	U1
	No.2 UP SIDING (S)	U2
	No.3 UP SIDING (S)	U3
	No.4 UP SIDING (S)	U4
	No.5 UP SIDING (S)	U5

SIGNAL	DESTINATION	IND
11	DOWN MAIN (M)	-
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM
	No.1 UP SIDING (S)	U1
	No.2 UP SIDING (S)	U2
	No.3 UP SIDING (S)	U3
	No.4 UP SIDING (S)	U4
	No.5 UP SIDING (S)	U5

SIGNAL	DESTINATION	IND
16	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
18	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
20	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
43	DOWN MAIN (S)	-

SIGNAL	DESTINATION	IND
44	DOWN MAIN (S)	DM
	PERWAY SIDING (S)	PS

SIGNAL	DESTINATION	IND
61	DOWN MAIN (M)	-
	DOWN MAIN (S)	-

SIGNAL	DESTINATION	IND
63	DOWN MAIN (M)	BOL
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
68	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
70	UP MAIN (S)	-
	UP MAIN (S)	-

SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **MOUNT VICTORIA TO HARTLEY VALE**
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

GRADIENT

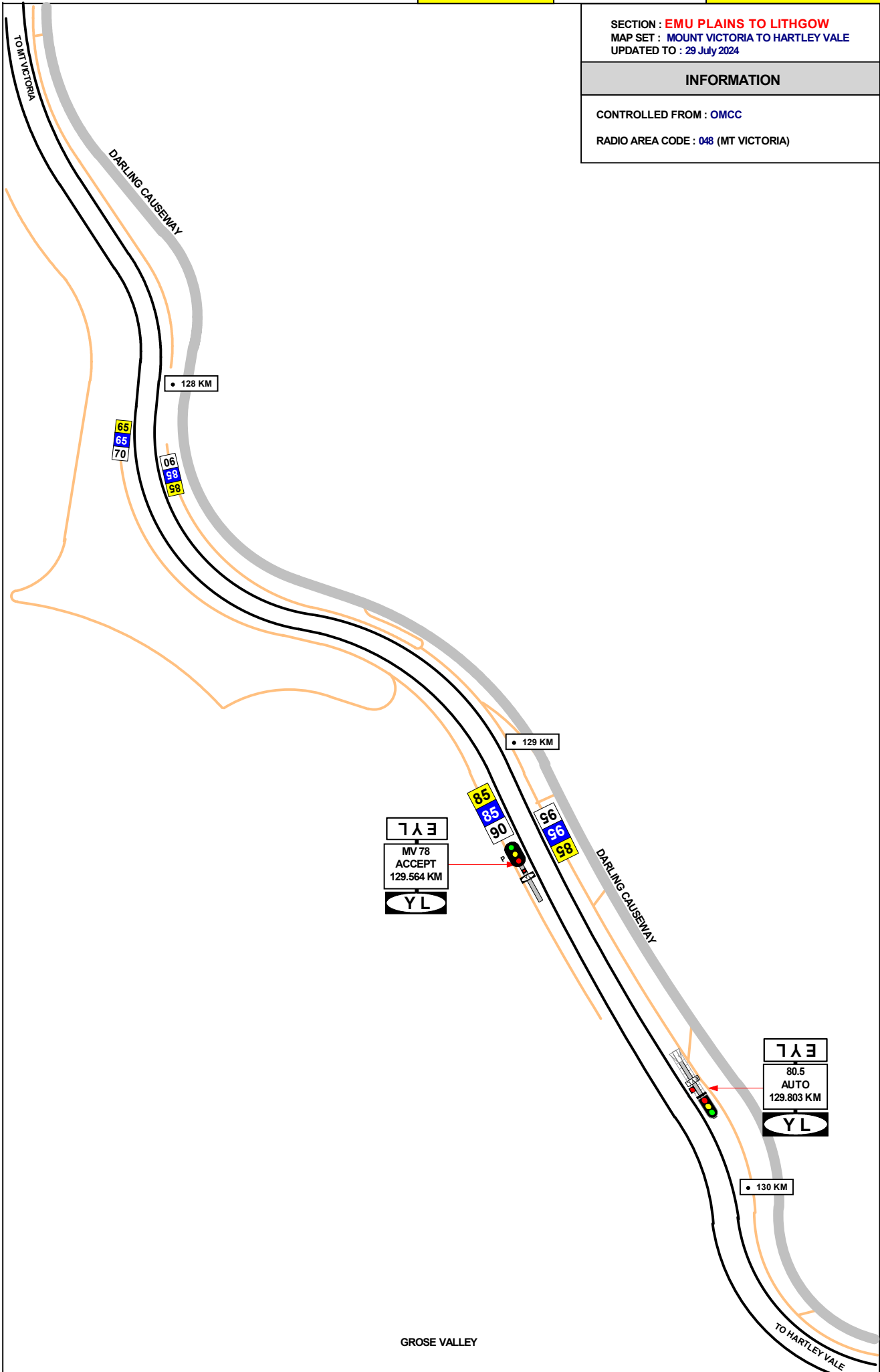
LEVEL

1 IN 99

LEVEL

1 IN 100

LEVEL



SECTION : EMU PLAINS TO LITHGOW
MAP SET : MOUNT VICTORIA TO HARTLEY VALE
UPDATED TO : 11 August 2025

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

GRADIENT

1 IN 100

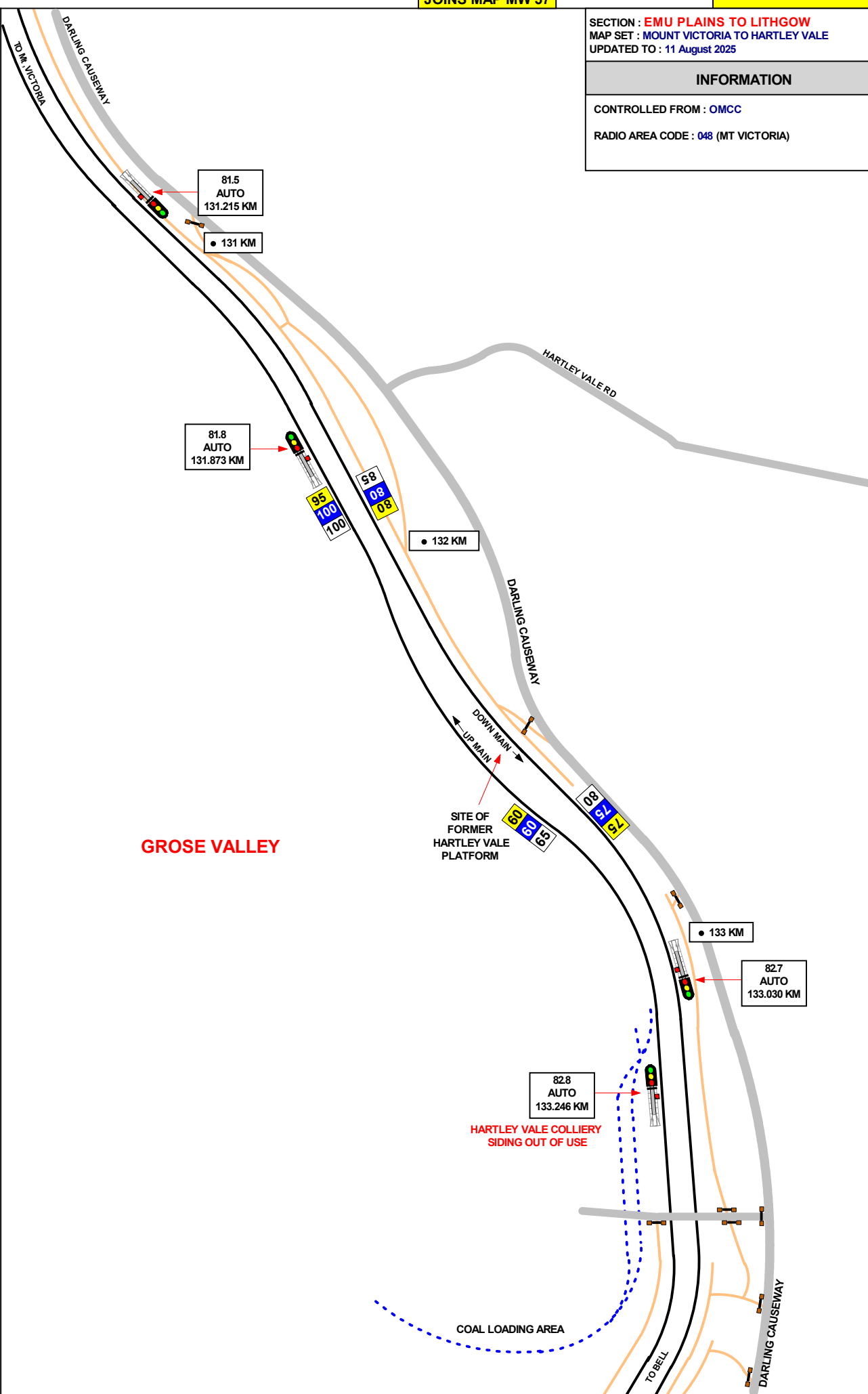
1 IN 90

1 IN 109

LEVEL

1 IN 70

GROSE VALLEY



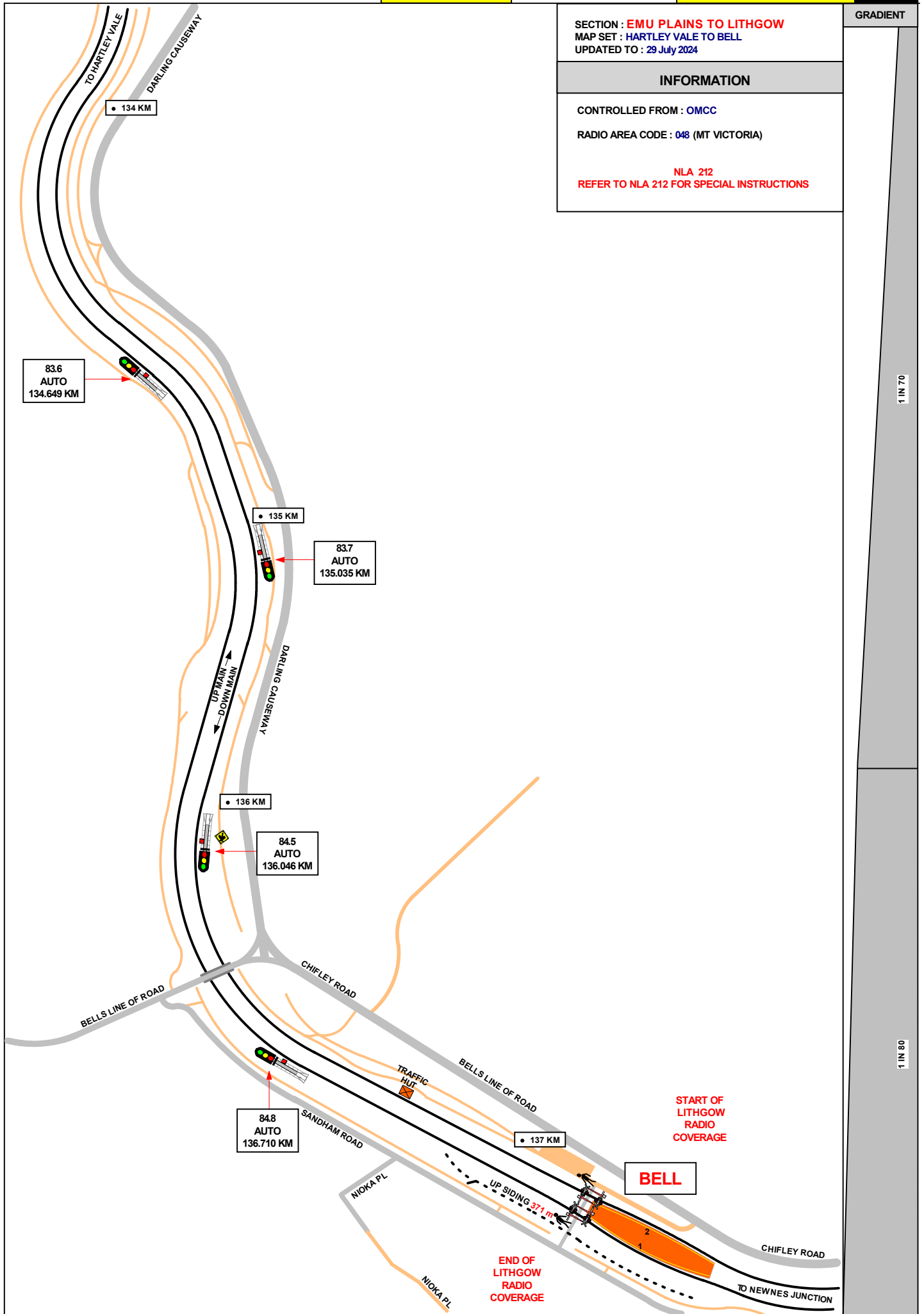
SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **HARTLEY VALE TO BELL**
UPDATED TO : 29 July 2024

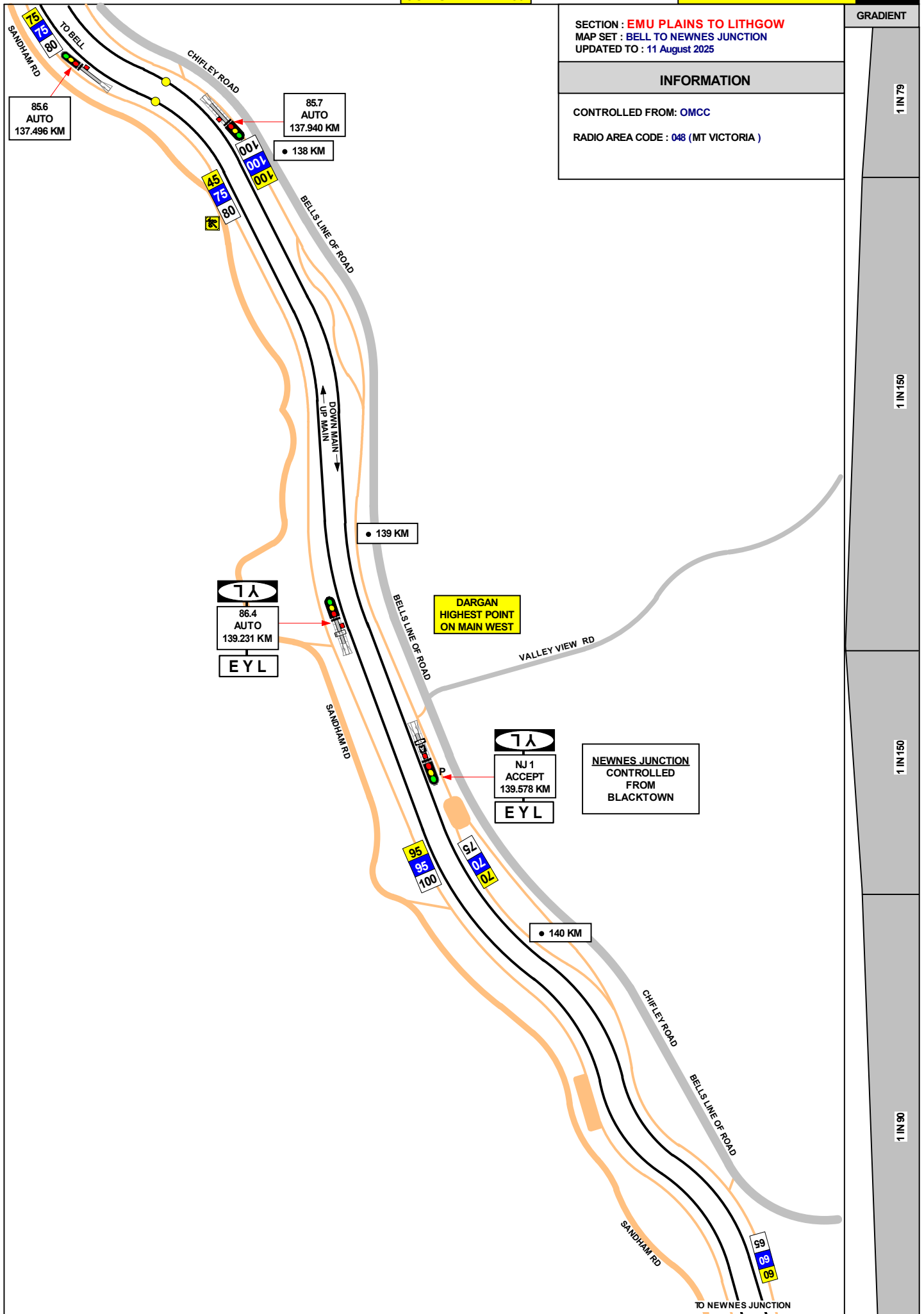
INFORMATION

CONTROLLED FROM : **OMCC**

RADIO AREA CODE : **048** (MT VICTORIA)

NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS





SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **NEWNES JUNCTION**
UPDATED TO : **29 July 2024**

INFORMATION

CONTROLLED FROM : **OMCC**

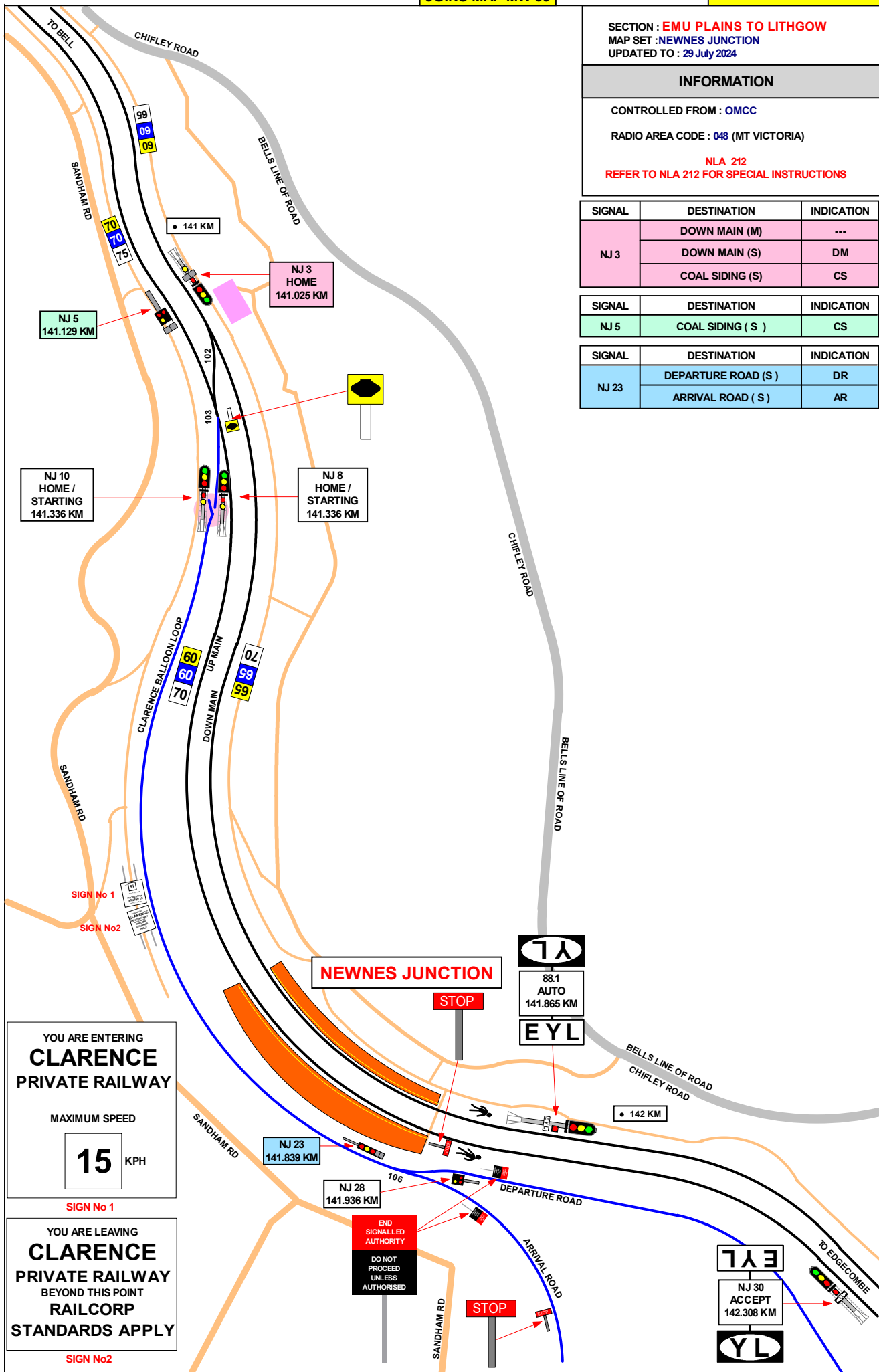
RADIO AREA CODE : **048 (MT VICTORIA)**

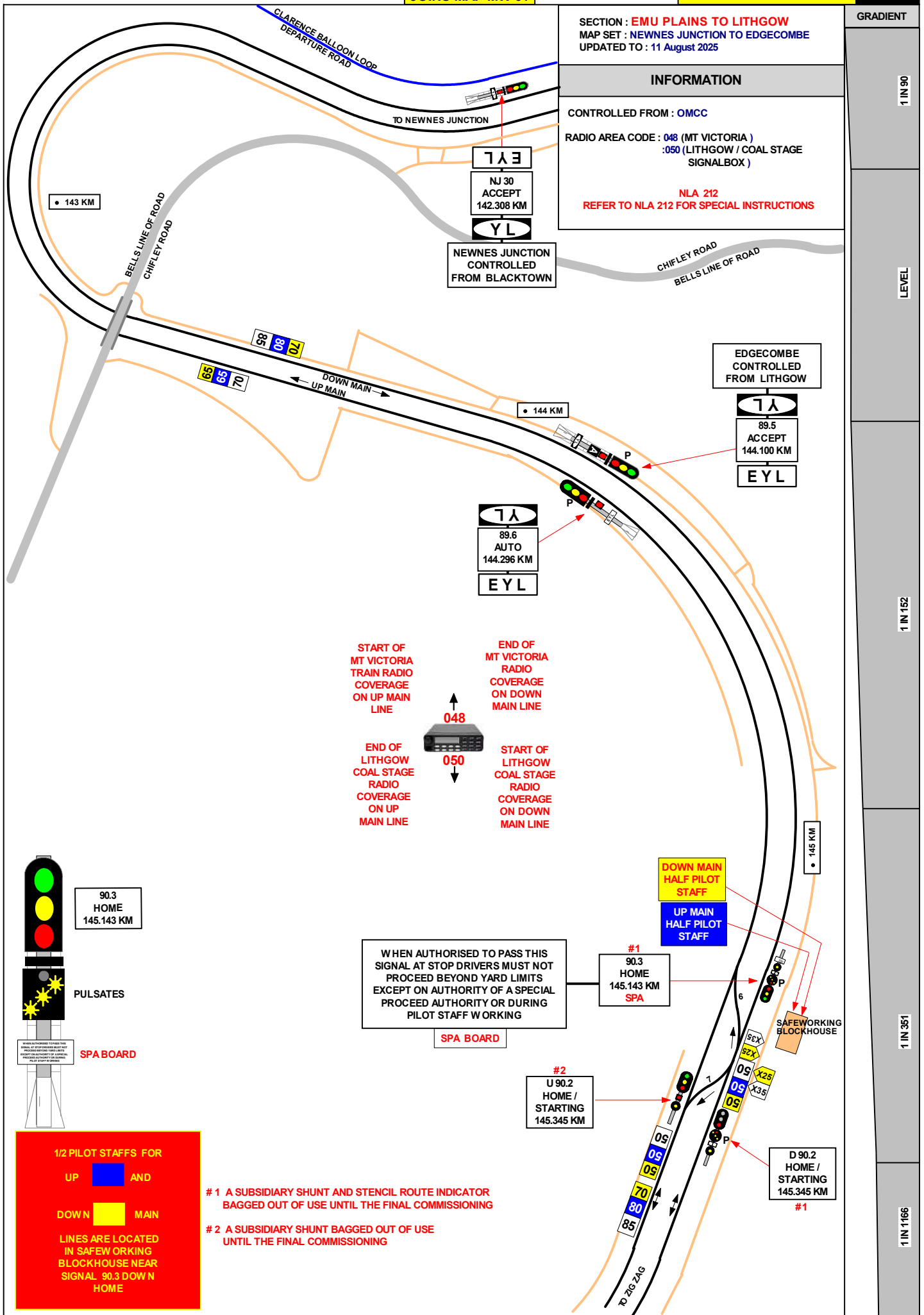
NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
NJ 3	DOWN MAIN (M)	---
	DOWN MAIN (S)	DM
	COAL SIDING (S)	CS

SIGNAL	DESTINATION	INDICATION
NJ 5	COAL SIDING (S)	CS

SIGNAL	DESTINATION	INDICATION
NJ 23	DEPARTURE ROAD (S)	DR
	ARRIVAL ROAD (S)	AR





SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : **EDGECOMBE TO TUNNEL 4**
UPDATED TO : 8 May 2020

INFORMATION

CONTROLLED FROM : **LITHGOW**

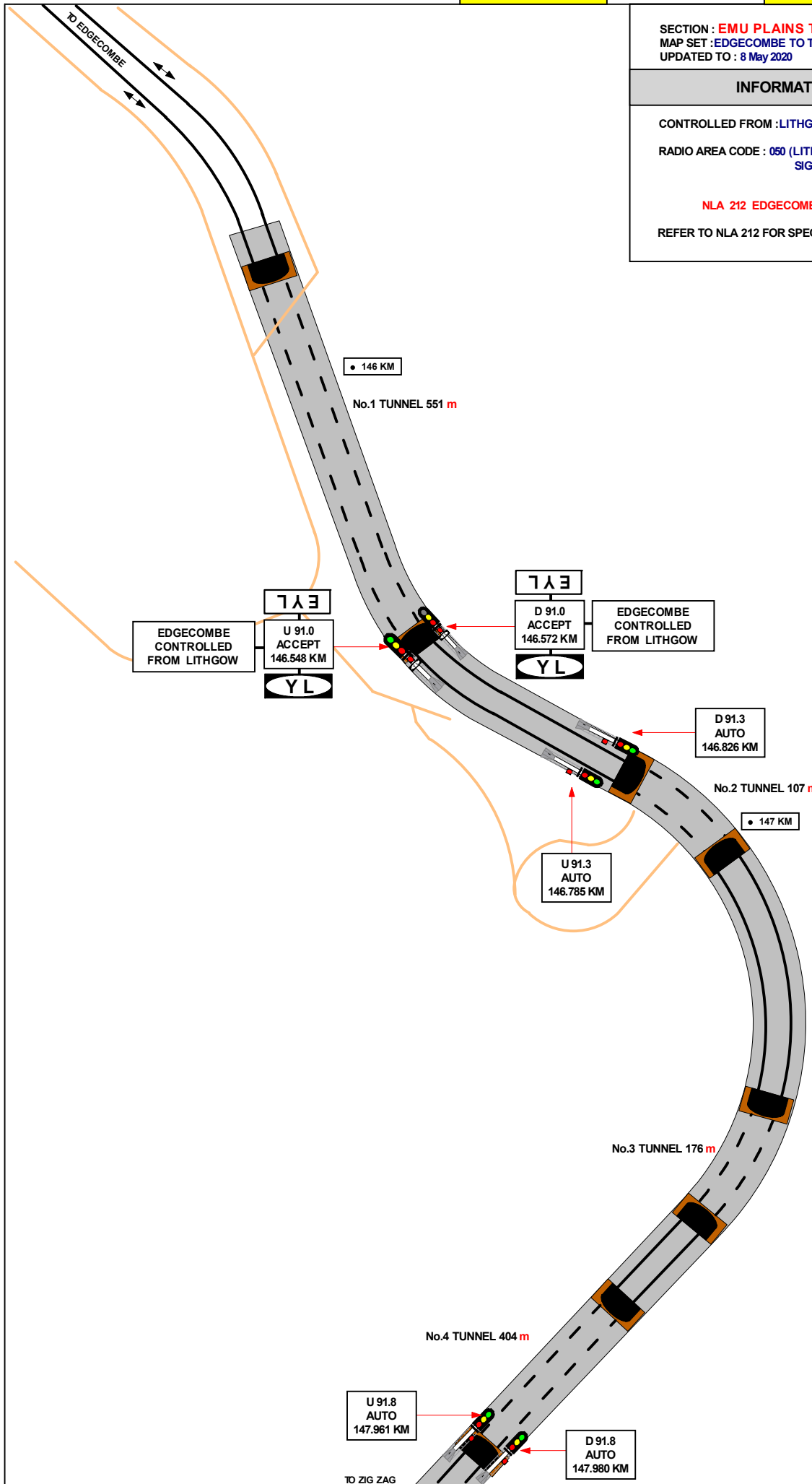
RADIO AREA CODE : **050 (LITHGOW / COAL STAGE
SIGNAL BOX)**

NLA 212 EDGECOMBE - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

1 IN 1166

1 IN 90



SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **TUNNEL 4 TO ZIG ZAG**
 UPDATED TO : 26 November 2021

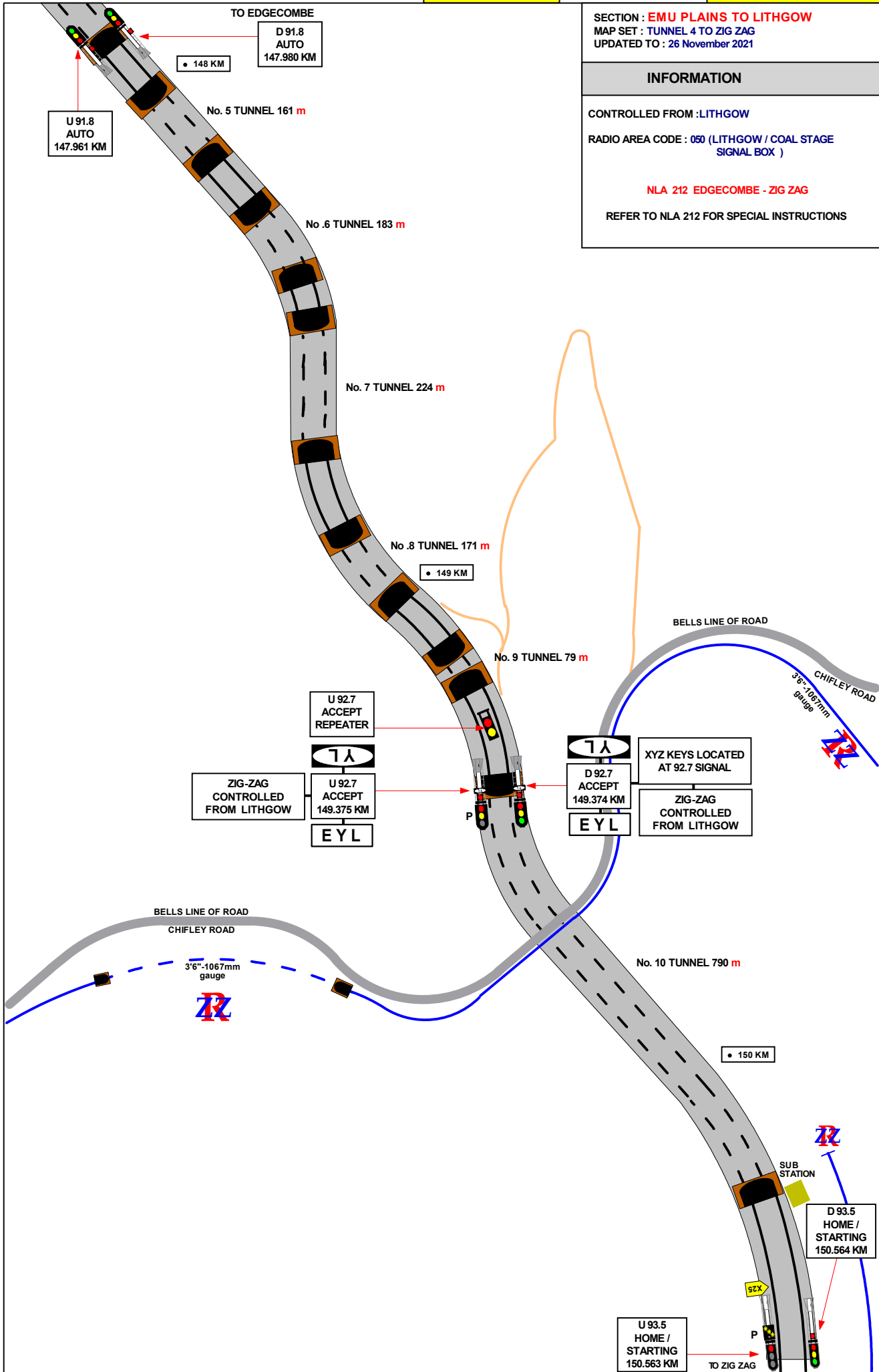
INFORMATION

CONTROLLED FROM : **LITHGOW**

RADIO AREA CODE : **050 (LITHGOW / COAL STAGE
 SIGNAL BOX)**

NLA 212 EDGECOMBE - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS



JOINS MAP MW 64

TO EDGECOMBE

SECTION : EMU PLAINS TO LITHGOW
MAP SET : ZIG ZAG TO OAKLEY PARK
UPDATED TO : 11 August 2025

GRADIENT

INFORMATION

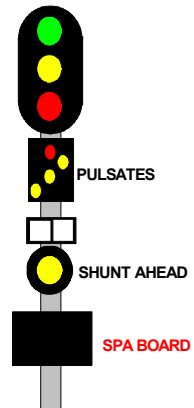
CONTROLLED FROM : LITHGOW

RADIO AREA CODE : 050 (LITHGOW / COAL STAGE
SIGNAL BOX)

NLA 212 EDGECOMBE - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
D 93.6	UP MAIN	UM
	DOWN MAIN	DM

D 93.6
HOME /
STARTING
150.755 KM
SPA

1/2 PILOT STAFFS FOR

UP

AND

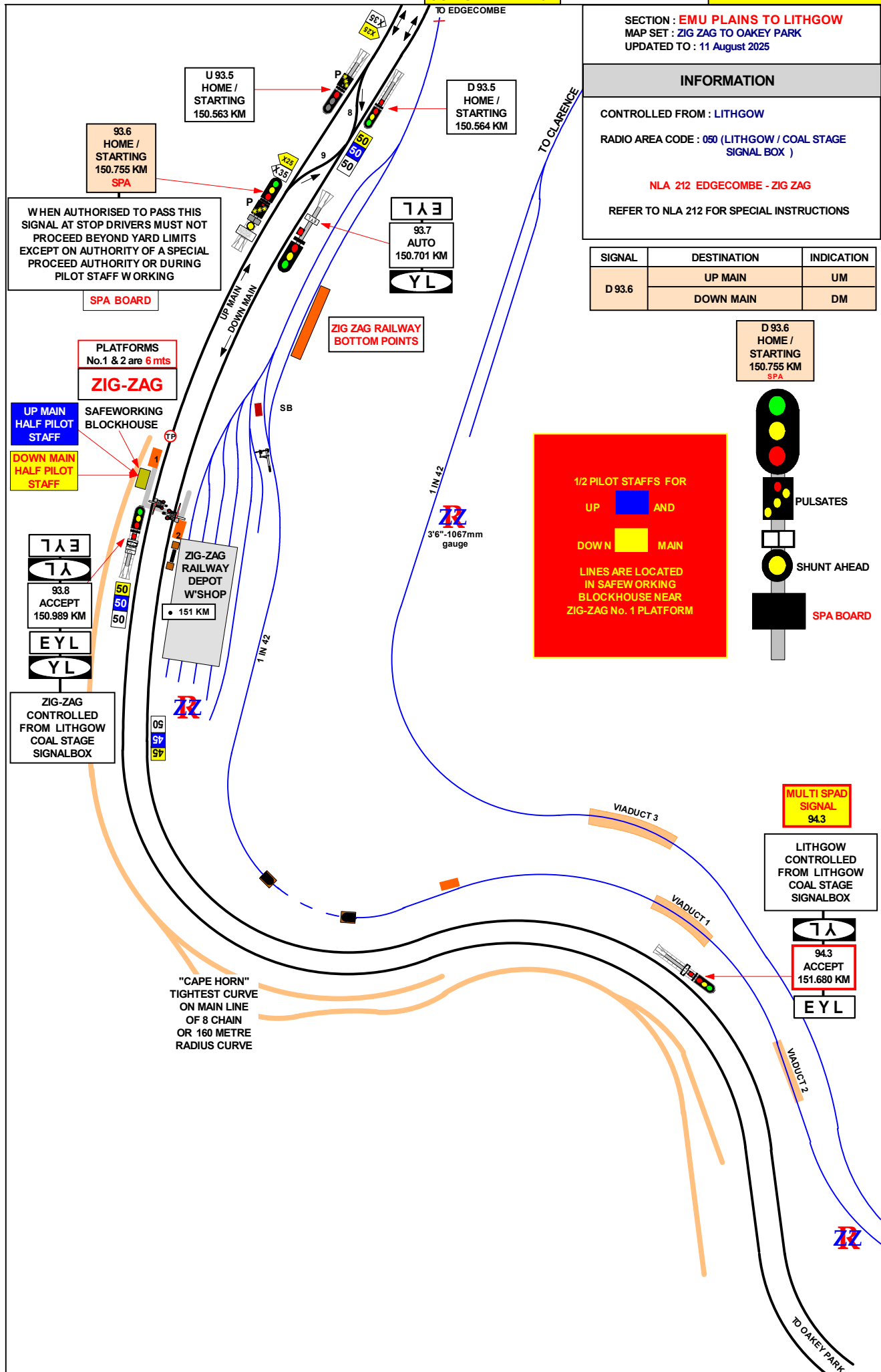
DOWN

MAIN

LINES ARE LOCATED
IN SAFEWORKING
BLOCKHOUSE NEAR
ZIG-ZAG No. 1 PLATFORM

MULTI SPAD
SIGNAL
94.3LITHGOW
CONTROLLED
FROM LITHGOW
COAL STAGE
SIGNALBOX94.3
ACCEPT
151.680 KM
EYL

JOINS MAP MW 66



"CAPE HORN"
TIGHTEST CURVE
ON MAIN LINE
OF 8 CHAIN
OR 160 METRE
RADIUS CURVE



943
ACCEPT
151.680 KM

MULTI SPAD
SIGNAL
943

EYL

LITHGOW
CONTROLLED
FROM LITHGOW
COAL STAGE

• 152 KM

45
45
50

02
02
09

DOWN MAIN

UP MAIN

• 153 KM

95.0
STARTING
153.035 KM

95.1
HOME
153.179 KM

OAKEY PARK

SUB STATION

SPEED LIMIT
IN YARD
15 kph

POINTS
INDICATOR

72
153.404 KM

6 / 7 FRB
153.450 KM

1 FRB
153.450 KM

SUB STATION SIDING
137 mts

77

81

78

79

TO LITHGOW

SECTION : EMU PLAINS TO LITHGOW
MAP SET : ZIG ZAG TO OAKEY PARK
UPDATED TO : 15 April 2024

INFORMATION

CONTROLLED FROM : LITHGOW

RADIO AREA CODE : 050 (LITHGOW / COAL STAGE
SIGNAL BOX)

NLA 212 EDGEcombe - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
95.1	DOWN SIDINGS	DS
	DOWN MAIN	DM
	UP MAIN	UM

SIGNAL	DESTINATION	INDICATION
72	No.2 RECEPTION SIDING	2R
	No.1 RECEPTION SIDING	1R



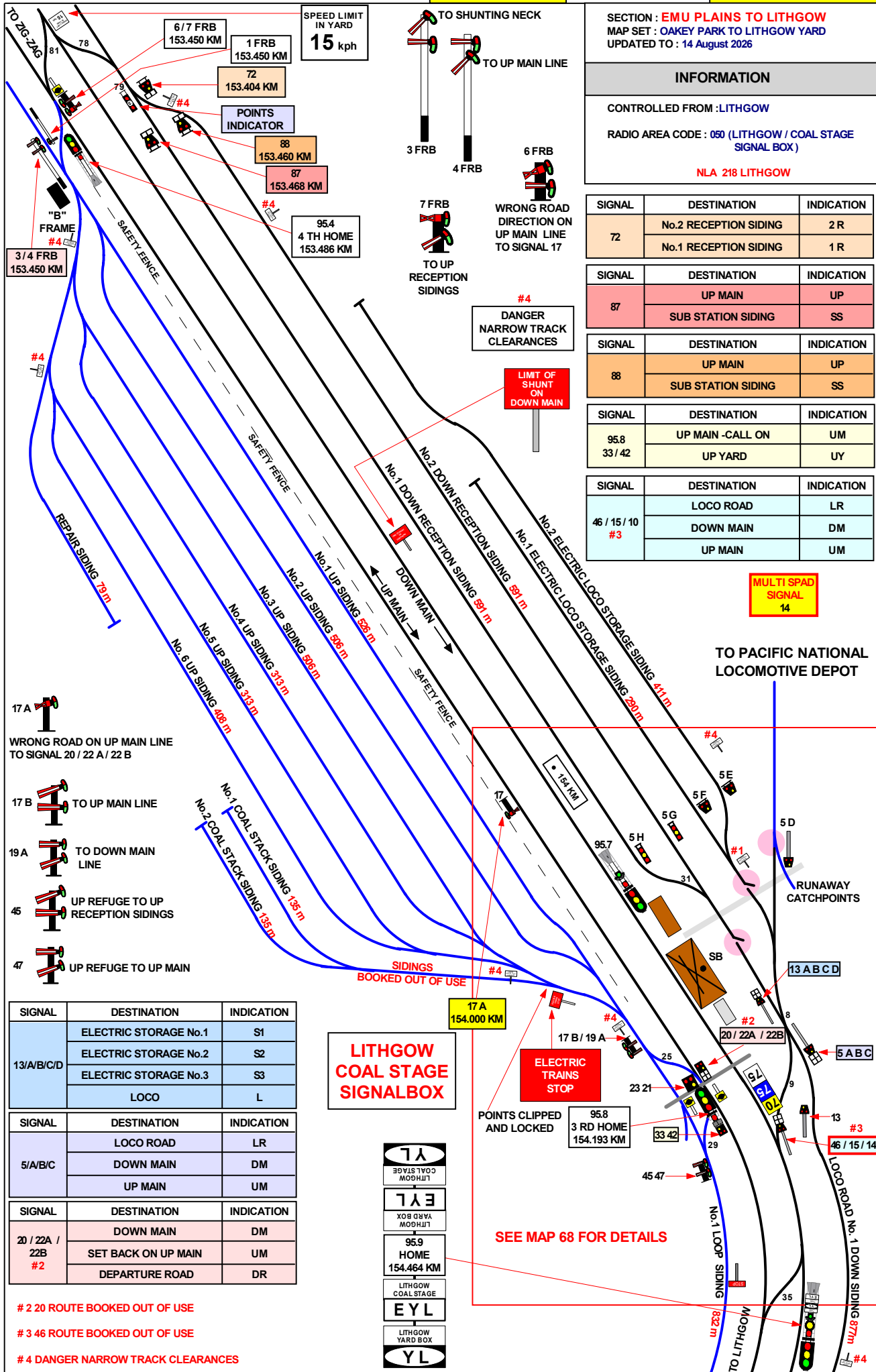
WRONG ROAD DIRECTION ON UP MAIN
LINE TO SIGNAL 17

6 FRB



TO UP RECEPTION SIDINGS

7 FRB



SECTION : EMU PLAINS TO LITHGOW
 MAP SET : OAKY PARK TO LITHGOW YARD
 UPDATED TO : 14 August 2026

INFORMATION

CONTROLLED FROM : LITHGOW

RADIO AREA CODE : 050 (LITHGOW / COAL STAGE SIGNAL BOX)

NLA 218 LITHGOW

SIGNAL	DESTINATION	INDICATION
72	No.2 RECEPTION SIDING	2 R
	No.1 RECEPTION SIDING	1 R

SIGNAL	DESTINATION	INDICATION
87	UP MAIN	UP
	SUB STATION SIDING	SS

SIGNAL	DESTINATION	INDICATION
88	UP MAIN	UP
	SUB STATION SIDING	SS

SIGNAL	DESTINATION	INDICATION
95.8 33 / 42	UP MAIN -CALL ON	UM
	UP YARD	UY

SIGNAL	DESTINATION	INDICATION
46 / 15 / 10 #3	LOCO ROAD	LR
	DOWN MAIN	DM
	UP MAIN	UM

MULTI SPAD SIGNAL
14

SIGNAL	DESTINATION	INDICATION
13/A/B/C/D	ELECTRIC STORAGE No.1	S1
	ELECTRIC STORAGE No.2	S2
	ELECTRIC STORAGE No.3	S3
	LOCO	L

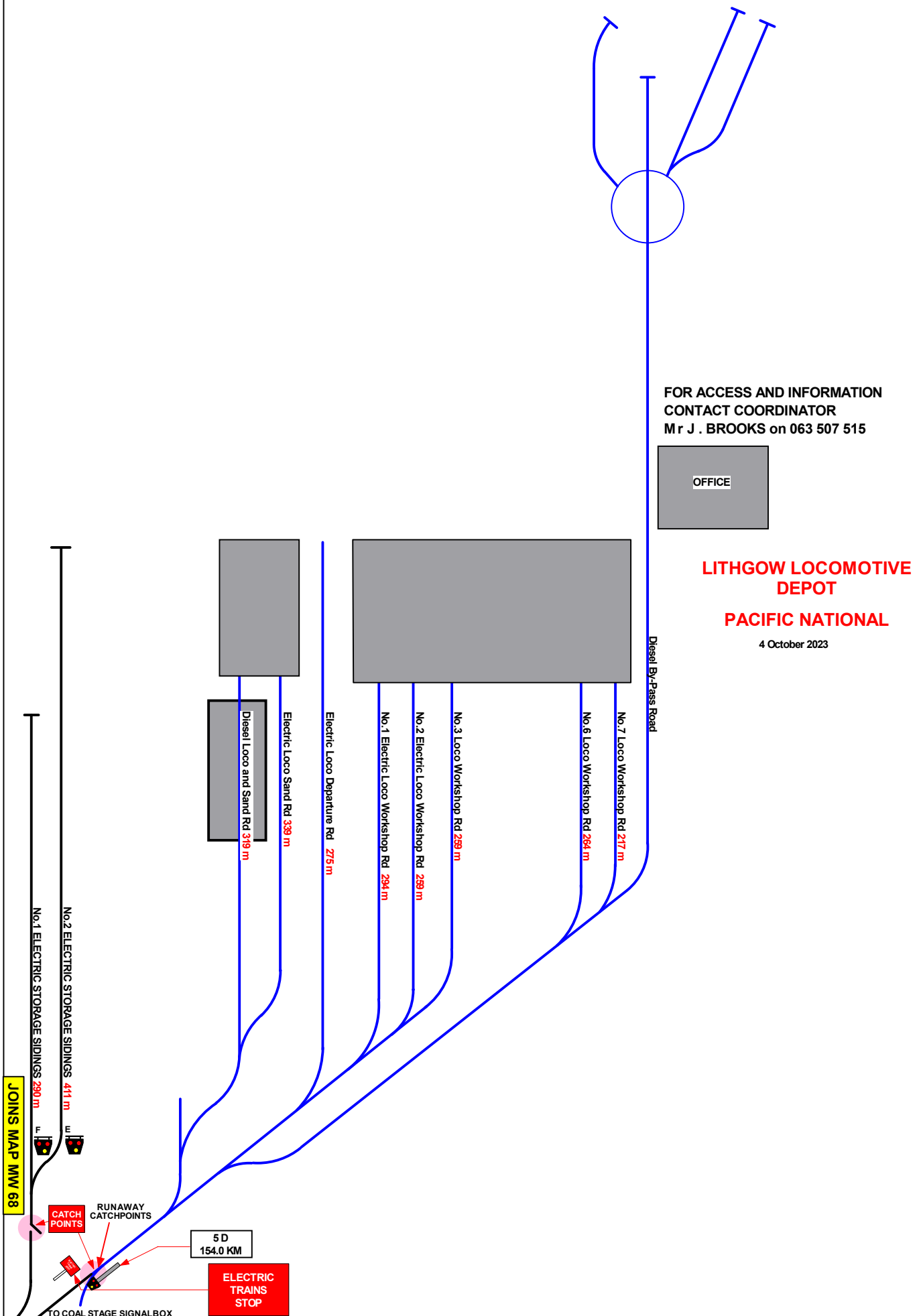
SIGNAL	DESTINATION	INDICATION
5/A/B/C	LOCO ROAD	LR
	DOWN MAIN	DM
	UP MAIN	UM

SIGNAL	DESTINATION	INDICATION
20 / 22A / 22B #2	DOWN MAIN	DM
	SET BACK ON UP MAIN	UM
	DEPARTURE ROAD	DR

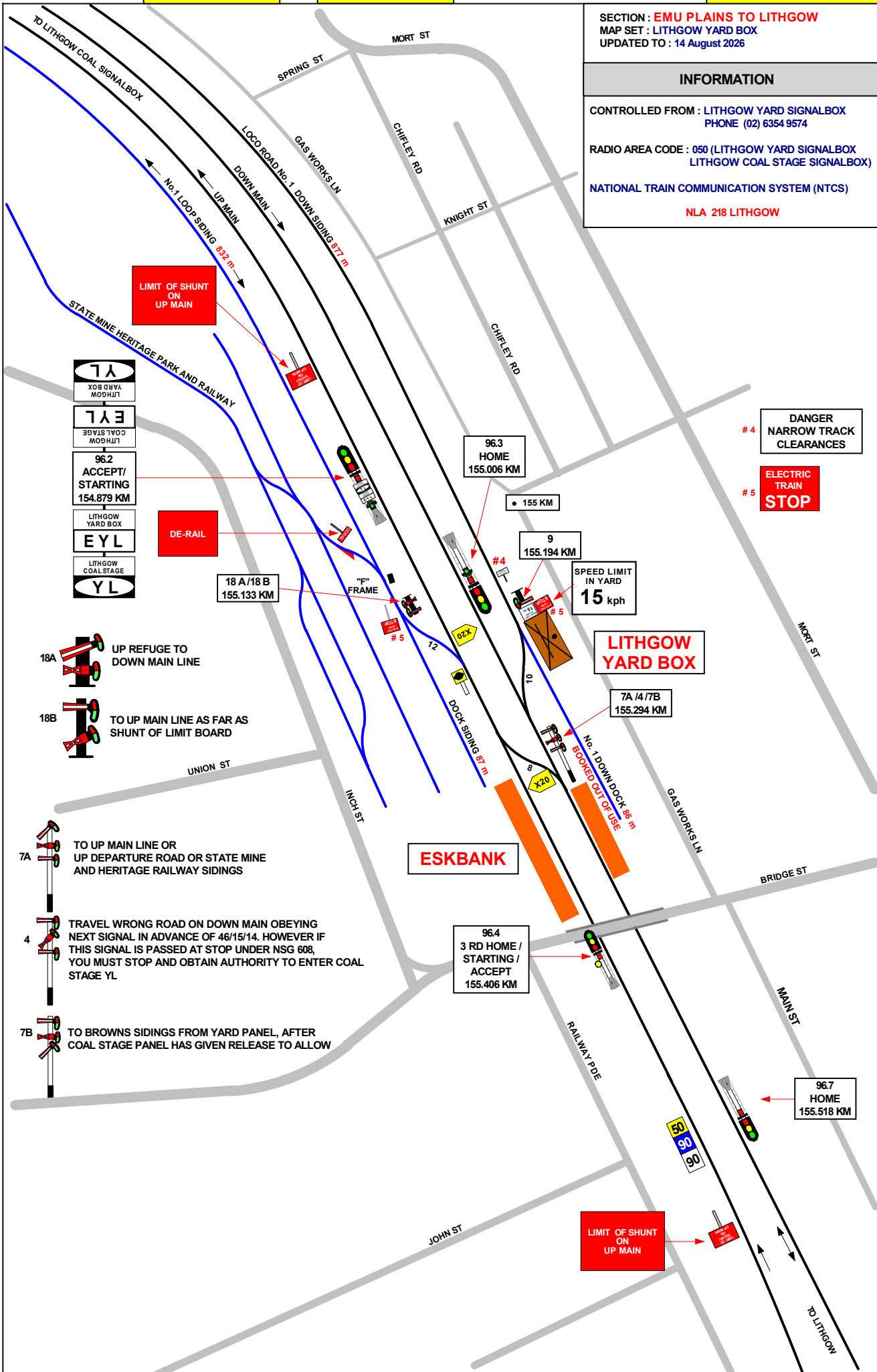
2 20 ROUTE BOOKED OUT OF USE

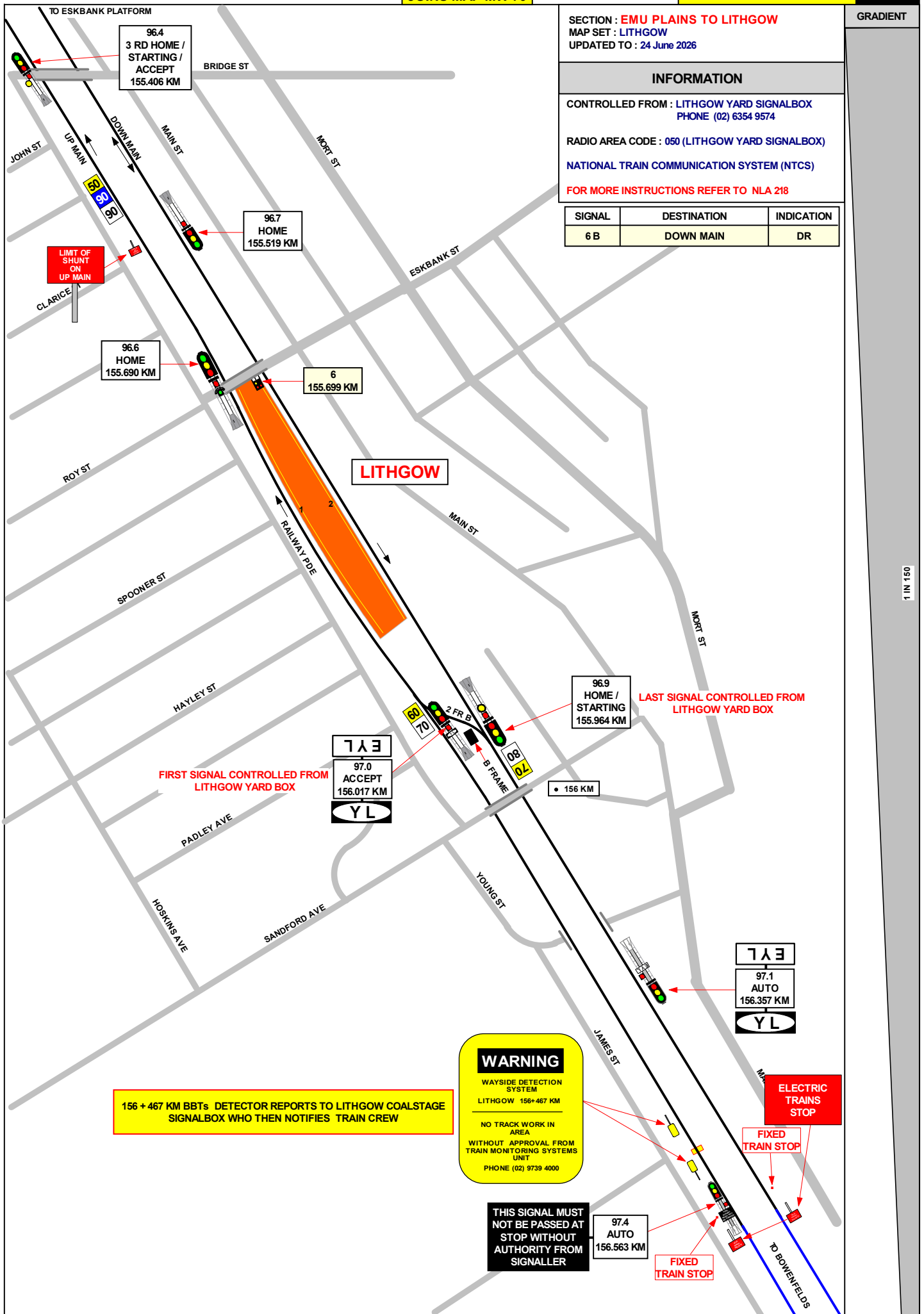
3 46 ROUTE BOOKED OUT OF USE

4 DANGER NARROW TRACK CLEARANCES



JOINS MAP MW 71





CONTROL PANELS	DEPARTMENTAL	PUBLIC
PENRITH PANEL-----	83 824-----	02 4780 3824
KATOOMBA PANEL-----	87 401-----	02 9851 7401
MT VICTORIA PANEL 1-----	88 837-----	02 6354 9837
MT VICTORIA PANEL 2-----	88 887-----	02 6354 9887
ZIG-ZAG TRAFFIC HUT-----	88 569-----	NA
LITHGOW COAL STAGE-----	88 524-----	63 549 524
LITHGOW YARD-----	88 574-----	63 549 574
LITHGOW STATION-----	88 565-----	63 549 565

STATIONS	DEPARTMENTAL	PUBLIC
BELL-----	NA-----	02 4787 8452
BLACKHEATH-----	83 992-----	02 4780 3992
BLAXLAND-----	83 806-----	02 4739 1620
BULLABURRA-----	NA-----	02 4780 3935
EMU PLAINS-----	NA-----	02 4735 2506
FAULCONBRIDGE-----	83 906-----	02 4780 3906
GLENBROOK-----	83 805-----	02 4739 1753
HAZELBROOK-----	83 913-----	02 4780 3913
KATOOMBA-----	83 965-----	02 4782 1902
LAPSTONE-----	83 813-----	02 4780 3813
LAWSON-----	83 914-----	02 4780 3914
LEURA-----	83 933-----	02 4780 3933
LINDEN-----	NA-----	02 4780 3915
LITHGOW-----	88 565-----	02 6354 9507
MEDLOW BATH-----	NA-----	02 4782 1902
MOUNT VICTORIA-----	88 838-----	02 6354 9838
SPRINGWOOD-----	83 905-----	02 4780 3915
VALLEY HEIGHTS-----	83 105-----	02 4780 3105
WARRIMOO-----	NA-----	02 4780 3808
WENTWORTH FALLS-----	NA-----	02 4780 3931
WOODFORD-----	NA-----	02 4780 3910