

DRIVERS ROUTE KNOWLEDGE DIAGRAMS

MAIN NORTH (HUNTER) LINE

WOODVILLE JCT
WARATAH
WARABROOK
SANDGATE
HEXHAM
TARRO
BERESFIELD
THORNTON
METFORD
VICTORIA STREET
EAST MAITLAND
HIGH STREET
MAITLAND
LOCHINVAR
GRETA
BRANXTON
BELFORD
WHITTINGHAM JCT
SINGLETON
CAMBERWELL JCT
MT OWEN JCT
NEWDELL JCT
DRAYTON JCT
GRASSTREE
ST HELIERS
MUSWELLBROOK
DARTBROOK JCT
ABERDEEN
TOGAR LOOP
SCONE

Effective Date: October 2025

Version: 4.40

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**.

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Please report any updates to
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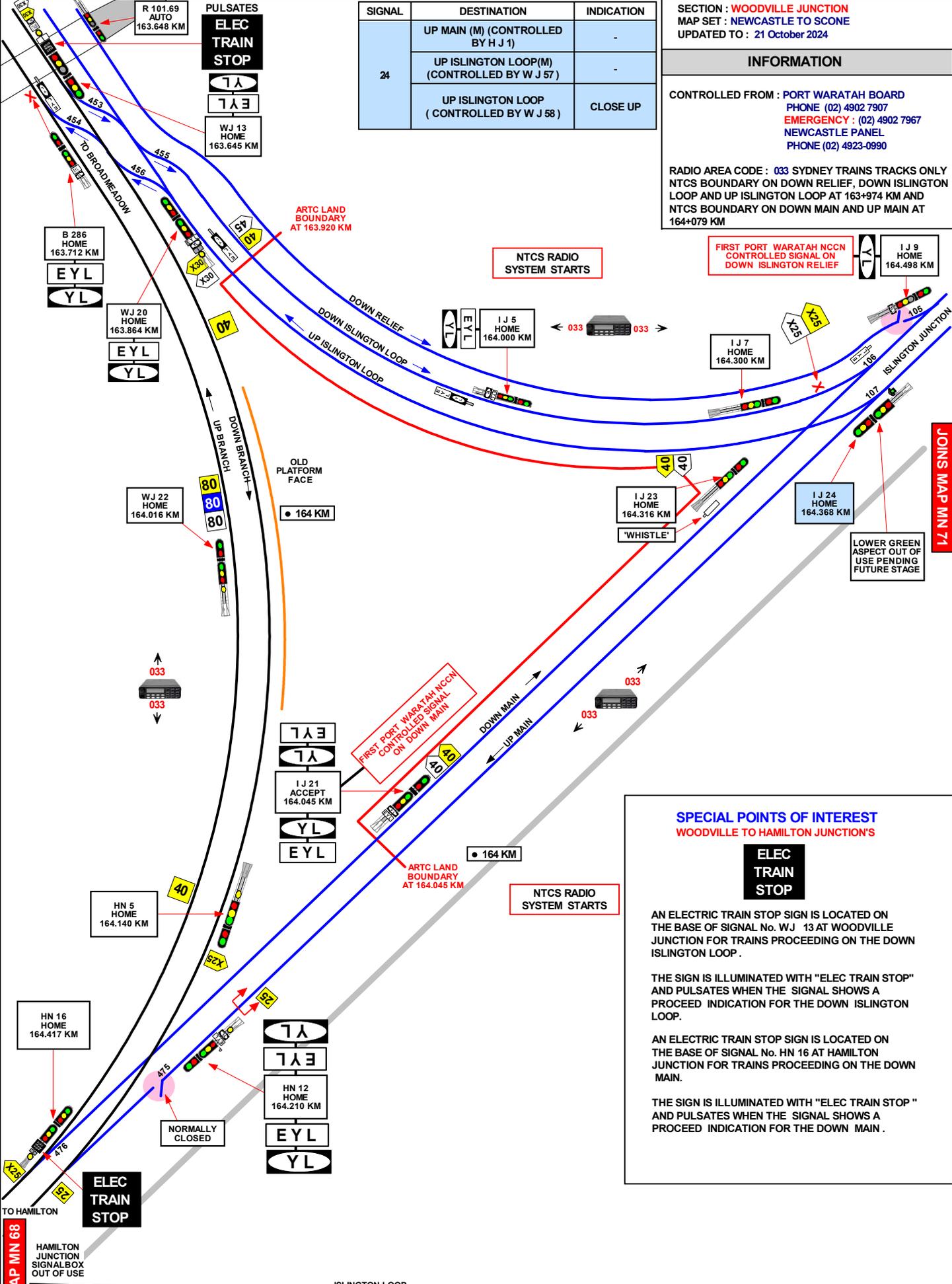
SIGNAL	DESTINATION	INDICATION
24	UP MAIN (M) (CONTROLLED BY H J 1)	-
	UP ISLINGTON LOOP(M) (CONTROLLED BY W J 57)	-
	UP ISLINGTON LOOP (CONTROLLED BY W J 58)	CLOSE UP

SECTION : **WOODVILLE JUNCTION**
 MAP SET : **NEWCASTLE TO SCONE**
 UPDATED TO : 21 October 2024

INFORMATION

CONTROLLED FROM : **PORT WARATAH BOARD**
 PHONE (02) 4902 7907
EMERGENCY : (02) 4902 7967
 NEWCASTLE PANEL
 PHONE (02) 4923-0990

RADIO AREA CODE : **033 SYDNEY TRAINS TRACKS ONLY**
 NTCS BOUNDARY ON DOWN RELIEF, DOWN ISLINGTON LOOP AND UP ISLINGTON LOOP AT 163+974 KM AND
 NTCS BOUNDARY ON DOWN MAIN AND UP MAIN AT 164+079 KM



SPECIAL POINTS OF INTEREST
 WOODVILLE TO HAMILTON JUNCTION'S

ELEC TRAIN STOP

AN ELECTRIC TRAIN STOP SIGN IS LOCATED ON THE BASE OF SIGNAL No. W.J 13 AT WOODVILLE JUNCTION FOR TRAINS PROCEEDING ON THE DOWN ISLINGTON LOOP .

THE SIGN IS ILLUMINATED WITH "ELEC TRAIN STOP" AND PULSATES WHEN THE SIGNAL SHOWS A PROCEED INDICATION FOR THE DOWN ISLINGTON LOOP.

AN ELECTRIC TRAIN STOP SIGN IS LOCATED ON THE BASE OF SIGNAL No. HN 16 AT HAMILTON JUNCTION FOR TRAINS PROCEEDING ON THE DOWN MAIN.

THE SIGN IS ILLUMINATED WITH "ELEC TRAIN STOP " AND PULSATES WHEN THE SIGNAL SHOWS A PROCEED INDICATION FOR THE DOWN MAIN .

JOINS MAP MN 68

HAMILTON JUNCTION SIGNALBOX OUT OF USE

JOINS MAP MN 71

SECTION : WOODVILLE JUNCTION TO ISLINGTON JUNCTION
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

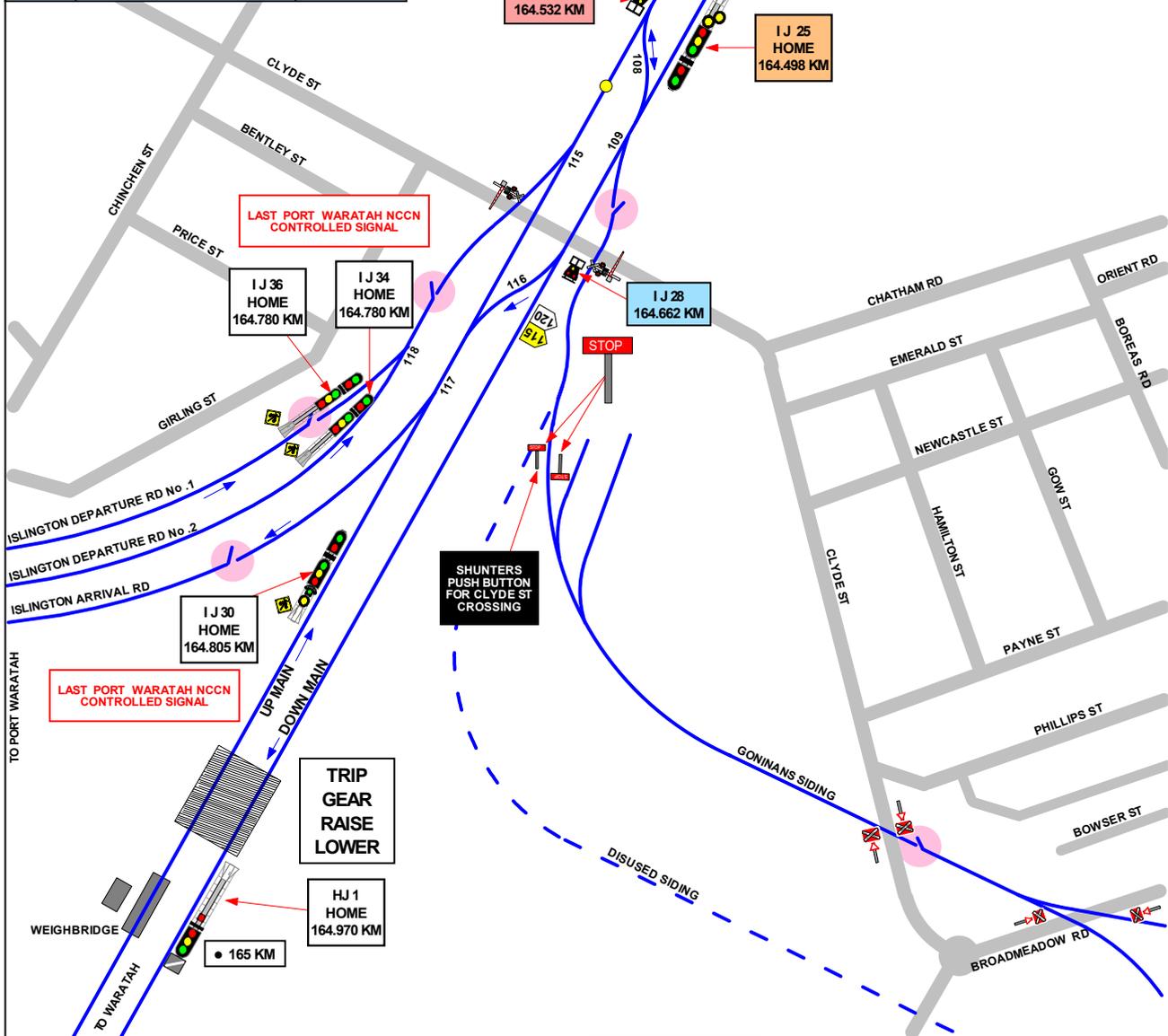
CONTROLLED FROM : PORT WARATAH BOARD
 PHONE (02) 4902 7907
 EMERGENCY No. (02) 4902 7967
 RADIO AREA CODE : 033 NEWCASTLE
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
24	UP MAIN (M) (CONTROLLED BY H J 1)	-
	UP ISLINGTON LOOP (M) (CONTROLLED BY W J 57)	-
	UP ISLINGTON LOOP (CONTROLLED BY W J 58)	CLOSE UP

SIGNAL	DESTINATION	INDICATION
25	GONIANS WORKS (S)	-
	DOWN MAIN (S)	-
	DOWN MAIN	CLOSE UP
	ISLINGTON ARRIVAL ROAD (M) (CONTROLLED BY 3 PTW)	-

SIGNAL	DESTINATION	INDICATION
27	GONIANS WORKS (S)	GS
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
28	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

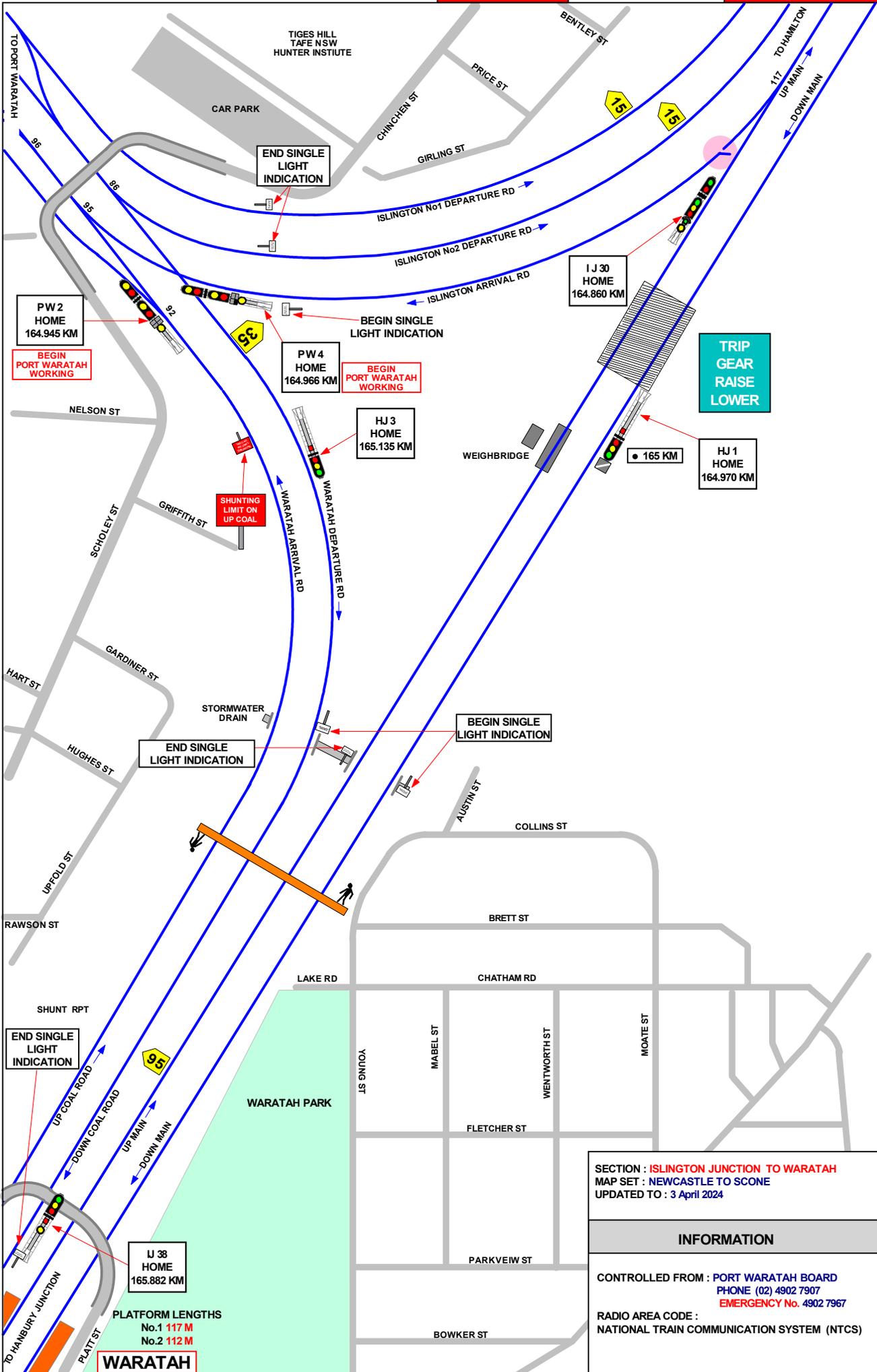


GRADIENT

1 IN 1650

LEVEL

1 IN 306



GRADIENT
1 IN 1100
1 IN 330
1 IN 825
1 IN 330
1 IN 4400
1 IN 1330
1 IN 600

SECTION : ISLINGTON JUNCTION TO WARATAH
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : PORT WARATAH BOARD
 PHONE (02) 4902 7907
 EMERGENCY No. 4902 7967

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

WARATAH

PLATFORM LENGTHS
 No.1 117 M
 No.2 112 M

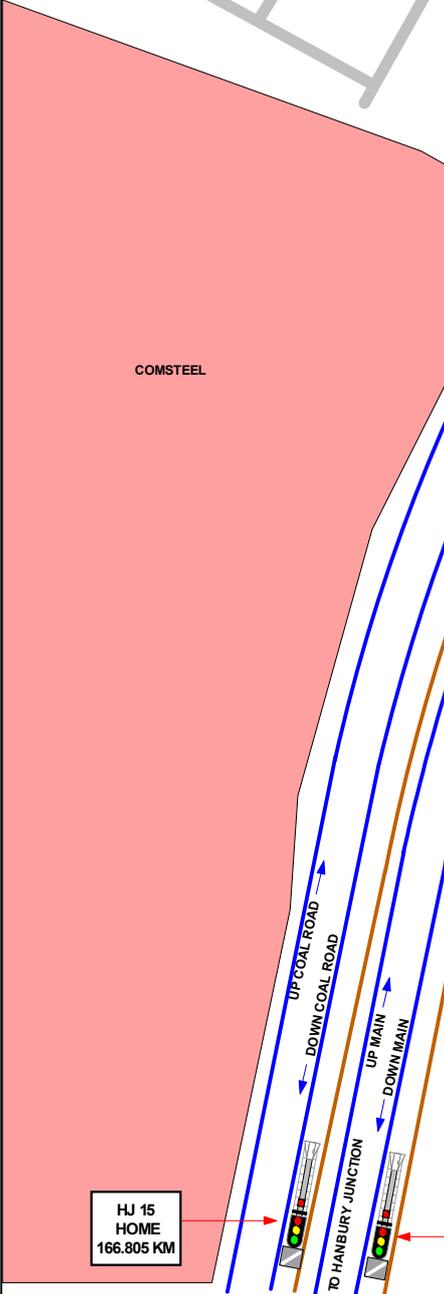
SECTION : **WARATAH TO HANBURY JUNCTION**
 MAP SET : **NEWCASTLE TO SCONE**
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : **PORT WARATAH BOARD**
 PHONE (02) 4902 7907
 EMERGENCY No. 4902 7967
 RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
M 103.10	DOWN COAL ROAD (S)	
	DOWN MAIN (S)	--

SIGNAL	DESTINATION	INDICATION
M 103.40	UP MAIN (M)	
	UP COAL ROAD (S)	--
	UP MAIN (S)	UM
	UP COAL ROAD (S)	UC



SECTION : HANBURY JUNCTION
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : PORT WARATAH BOARD
PHONE (02) 4902 7907
EMERGENCY No. 4902 7967

RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT

MAIN LINES

1 IN 87

COMSTEEL

HJ 15 HOME
166.805 KM

HJ 13 HOME
166.805 KM

167 KM

HANBURY JUNCTION FLYOVER

EMBANKMENT FOR HANBURY JUNCTION FLYOVER

SHUNTING LIMIT ON DOWN MAIN

GRADIENT
COAL ROADS

1 IN 134

LEVEL

1 IN 100

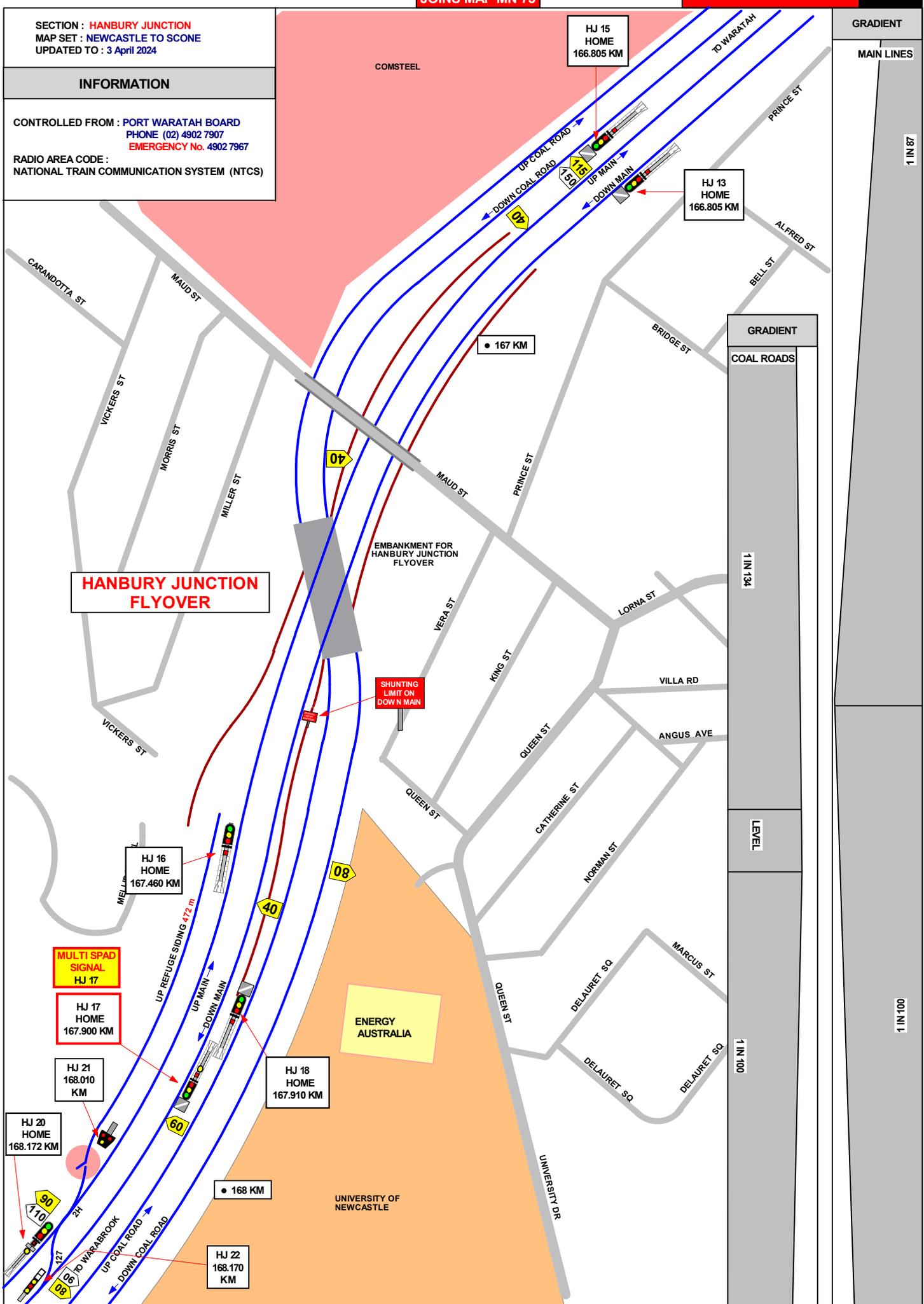
1 IN 100

ENERGY AUSTRALIA

UNIVERSITY OF NEWCASTLE

168 KM

HJ 22 HOME
168.170 KM

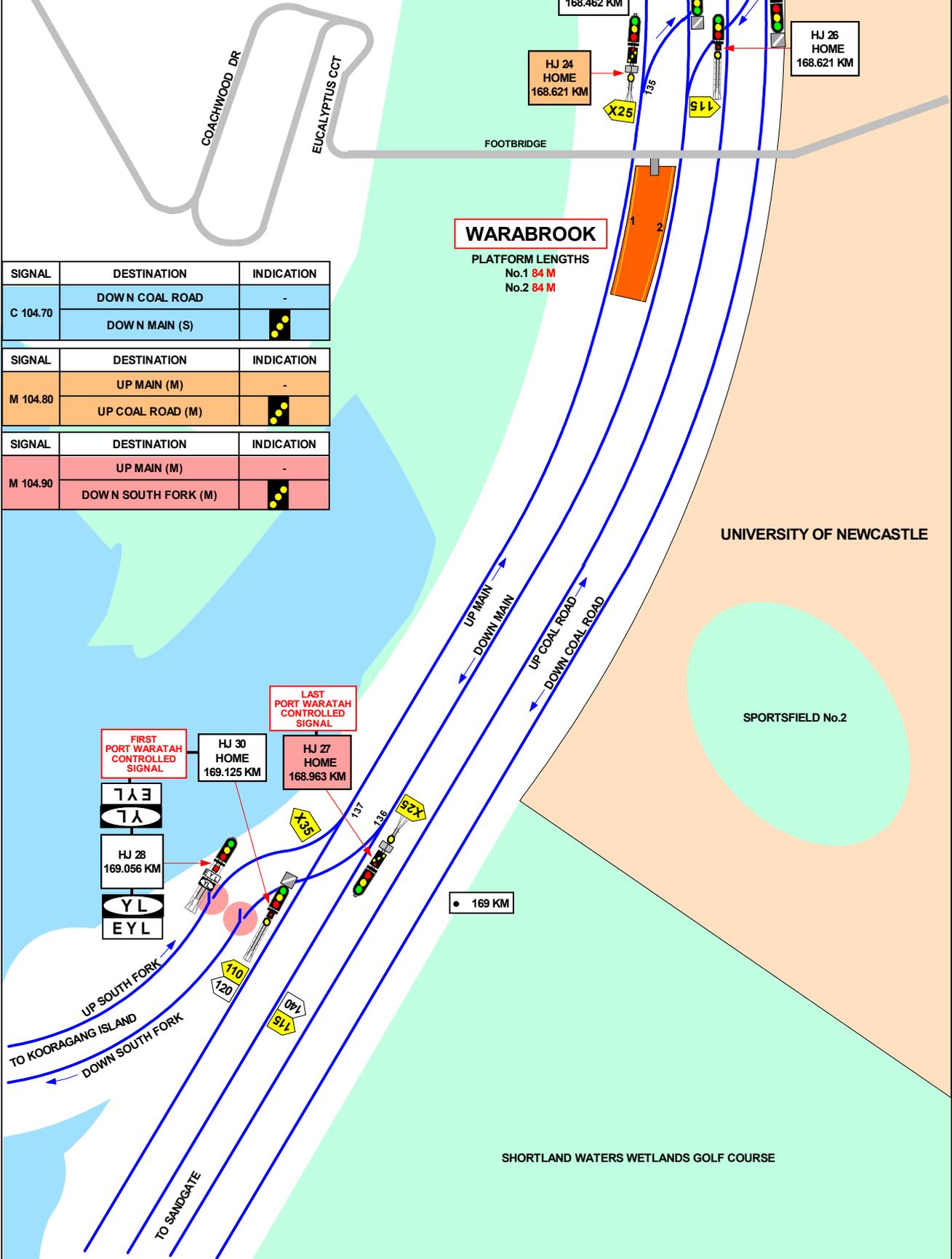


SECTION : HANBURY JUNCTION TO SANDGATE
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : PORT WARATAH BOARD
 PHONE (02) 4902 7907 **EMERGENCY No.** 4902 7967
 LOWER HUNTER NCCN
 PHONE (02) 4902 7909 **EMERGENCY NO.** 4902 7969
 RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT	
1 IN 82	
1 IN 94	
1 IN 165	
1 IN 60	
1 IN 398	



SIGNAL	DESTINATION	INDICATION
C 104.70	DOWN COAL ROAD	-
	DOWN MAIN (S)	●●●
M 104.80	UP MAIN (M)	-
	UP COAL ROAD (M)	●●●
M 104.90	UP MAIN (M)	-
	DOWN SOUTH FORK (M)	●●●

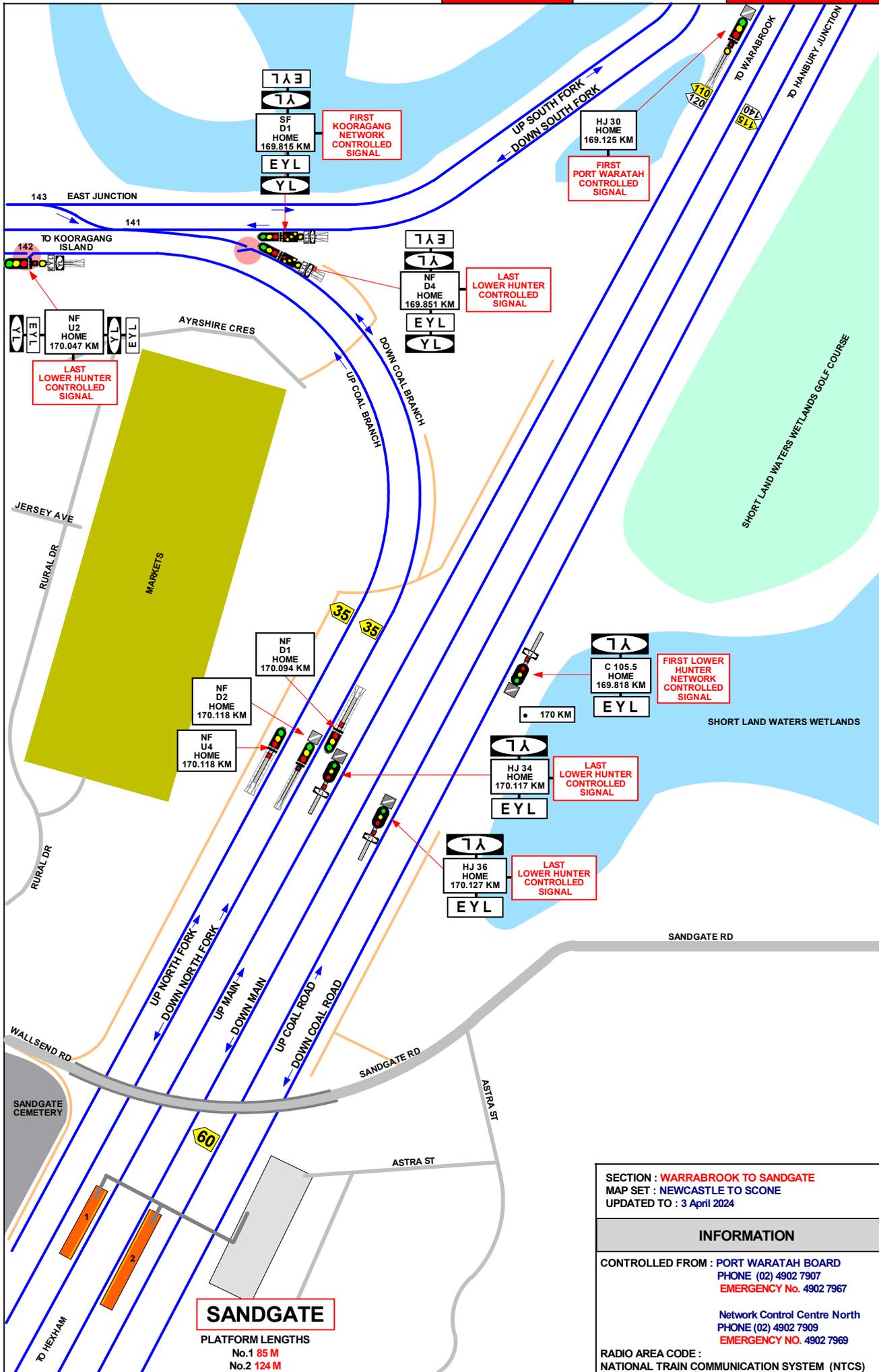
GRADIENT

1 IN 2200

LEVEL

1 IN 300

LEVEL



SECTION : **WARRABROOK TO SANDGATE**
 MAP SET : **NEWCASTLE TO SCONE**
 UPDATED TO : 3 April 2024

INFORMATION

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 EMERGENCY No. 4902 7967

Network Control Centre North
 PHONE (02) 4902 7909
 EMERGENCY NO. 4902 7969

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SECTION : SANDGATE TO HEXHAM
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : Network Control Centre North
 PHONE (02) 4902 7909
 EMERGENCY NO. 4902 7969

NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SANDGATE CEMETERY

SANDGATE

PLATFORM LENGTHS
 No.1 85 M
 No.2 124 M

GRADIENT

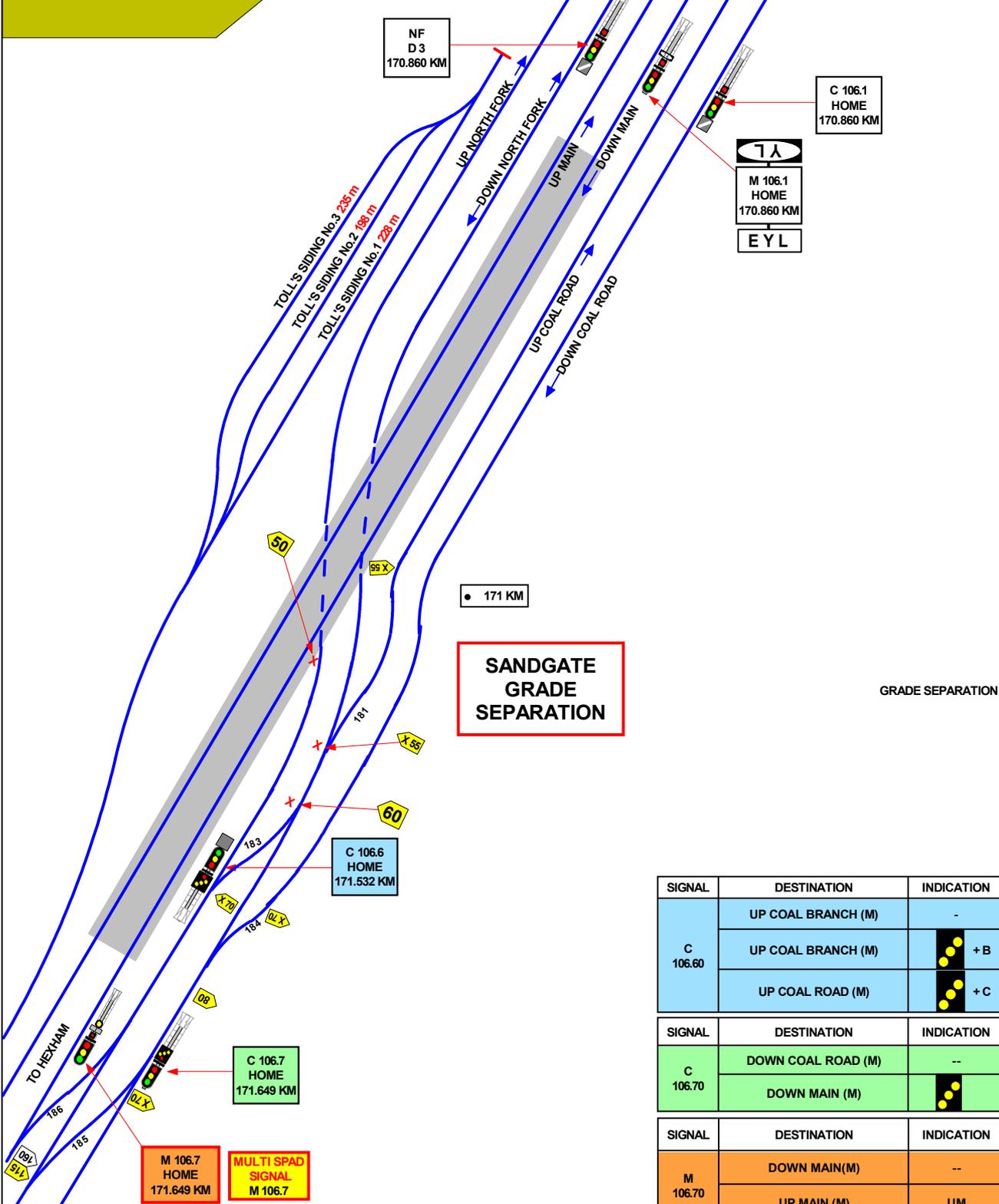
LEVEL

1 IN 425

1 IN 25

1 IN 25

1 IN 627



SIGNAL	DESTINATION	INDICATION
C 106.60	UP COAL BRANCH (M)	-
	UP COAL BRANCH (M)	●●● + B
	UP COAL ROAD (M)	●●● + C
C 106.70	DOWN COAL ROAD (M)	--
	DOWN MAIN (M)	●●●
M 106.70	DOWN MAIN (M)	--
	UP MAIN (M)	UM

SECTION : SANDGATE TO HEXHAM
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : LOWER HUNTER NCCN
 PHONE (02) 4902 7909
 EMERGENCY NO. 4902 7969

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
SS 106.70	UP MAIN (M)	UM

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

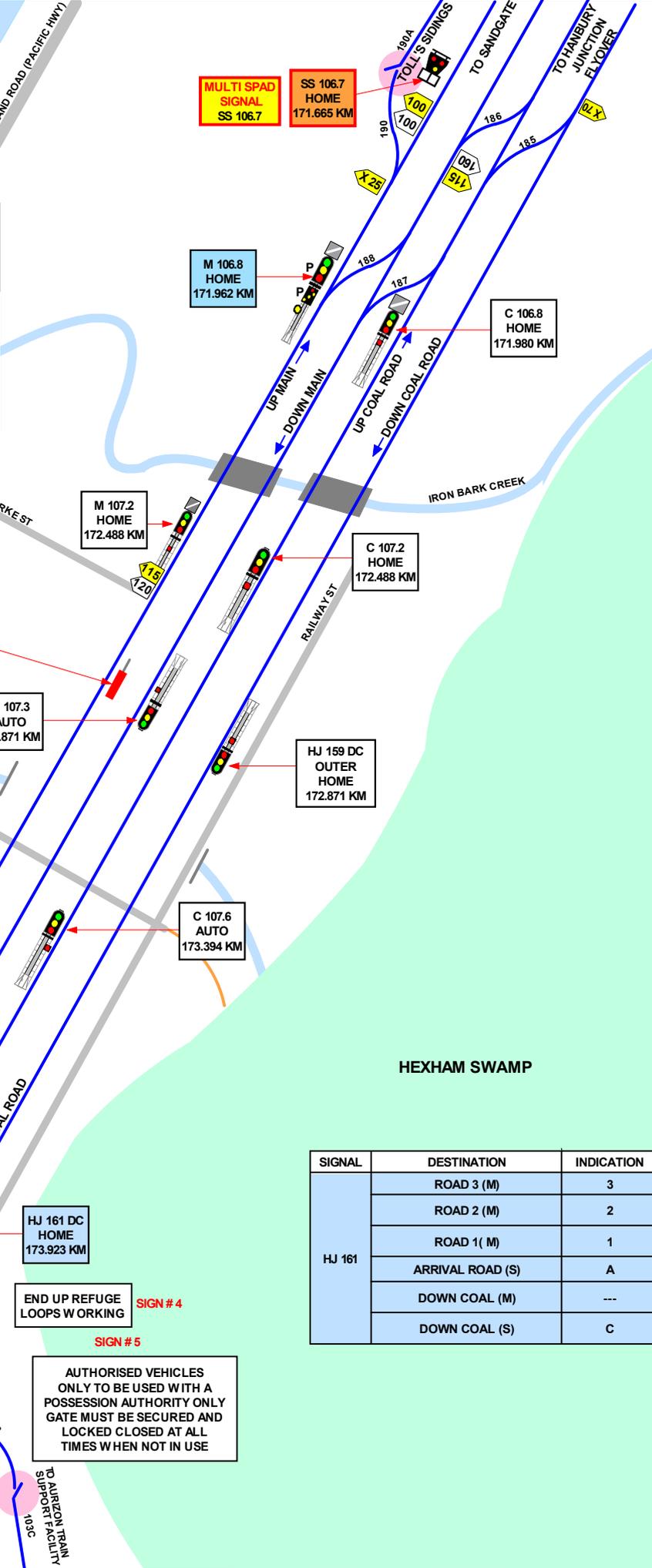
SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

SIGNAL	DESTINATION	INDICATION
M 106.80	TOLL SIDING (S)	-
	UP MAIN (M)	-
	UP COAL ROAD (M)	+ C

TO AIRZON TRAIN SUPPORT FACILITY

TO SANDGATE

TO HANBURY JUNCTION FLYOVER



GRADIENT	
1 IN 1320	
1 IN 470	
1 IN 198	
1 IN 500	
1 IN 206	
LEVEL	

SIGNAL	DESTINATION	INDICATION
HJ 161	ROAD 3 (M)	3
	ROAD 2 (M)	2
	ROAD 1 (M)	1
	ARRIVAL ROAD (S)	A
	DOWN COAL (M)	---
	DOWN COAL (S)	C

SIGNAL	DESTINATION	INDICATION
HJ 161	ROAD 3 (M)	3
	ROAD 2 (M)	2
	ROAD 1 (M)	1
	ARRIVAL ROAD (S)	A
	DOWN COAL (M)	---
	DOWN COAL (S)	C

SECTION : SANDGATE TO HEXHAM
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : LOWER HUNTER NCCN
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 EMERGENCY NO. 4902 7969

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
HX 3	ARRIVAL ROAD (S)	A
	ROAD 1 (S)	

SIGNAL	DESTINATION	INDICATION
HX 5	WAGGON SERVICE (S)	W
	ROAD 3 (S)	3
	ROAD 2 (S)	2

SIGNAL	DESTINATION	INDICATION
HX 7	WAGGON SERVICE (S)	W
	ROAD 3 (S)	3

SIGNAL	DESTINATION	INDICATION
HX 23	ROAD 3 (S)	3
	ROAD 2 (S)	2

SIGNAL	DESTINATION	INDICATION
HX 23	ROAD 2 (S)	2
	ROAD 3 (S)	3
	ROAD 3 (S)	3

SIGNAL	DESTINATION	INDICATION
HX 31	ROAD 3 (S)	3
	ROAD 2 (S)	2

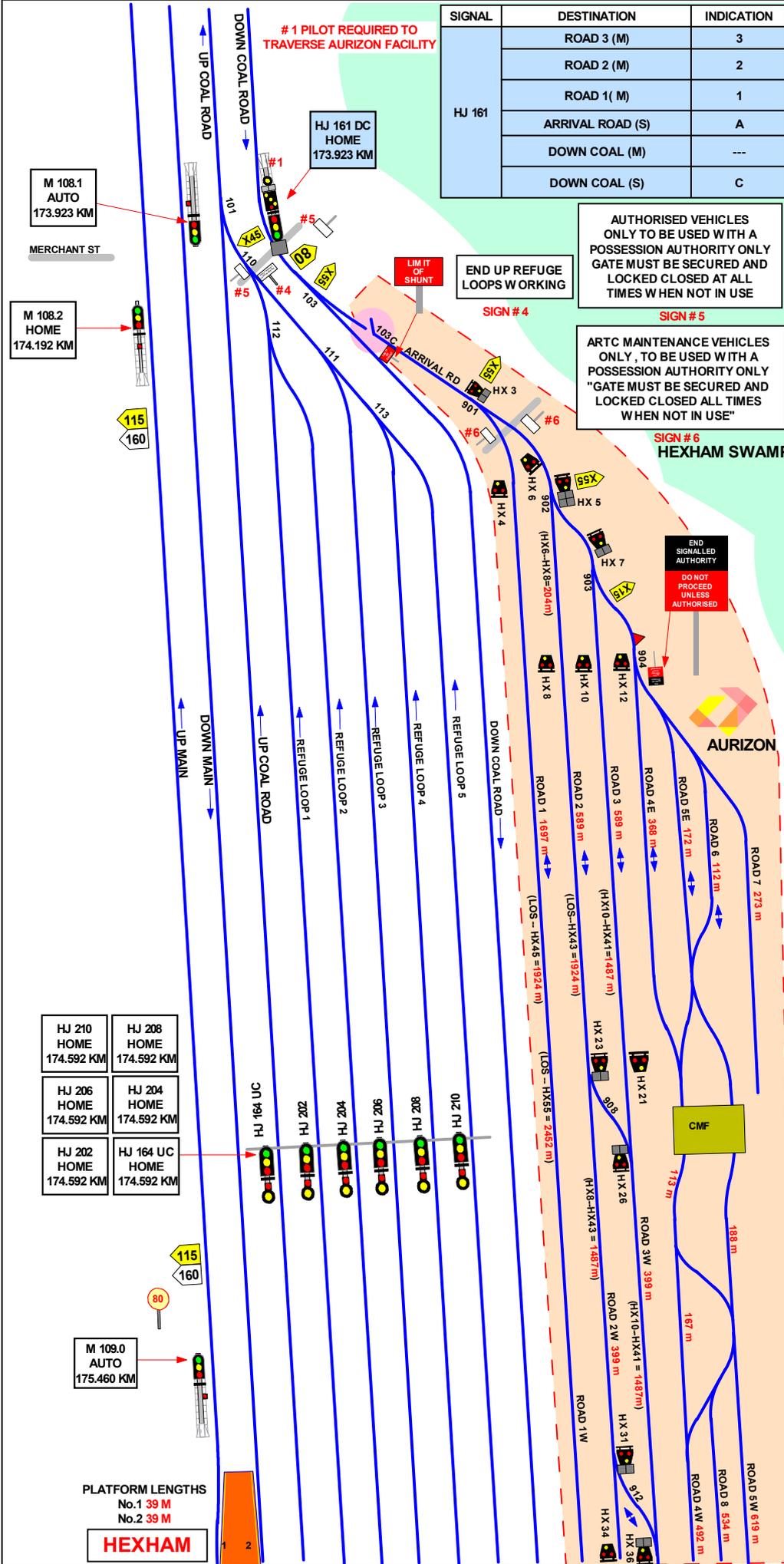
SIGNAL	DESTINATION	INDICATION
HX 36	ROAD 2 (S)	2
	ROAD 3 (S)	3

SIGNAL	DESTINATION	INDICATION
HX 40	ROAD 2 (S)	2
	ROAD 3 (S)	3
	WAGGON SERVICE (S)	W

SIGNAL	DESTINATION	INDICATION
HX 47	SHUNTING NECK (S)	S
	DEPARTURE ROAD (S)	D

SIGNAL	DESTINATION	INDICATION
HX 49	SHUNTING NECK (S)	S
	DEPARTURE ROAD (S)	D

SIGNAL	DESTINATION	INDICATION
HX 51	SHUNTING NECK (S)	S
	DEPARTURE ROAD (S)	D



AUTHORISED VEHICLES ONLY TO BE USED WITH A POSSESSION AUTHORITY ONLY GATE MUST BE SECURED AND LOCKED CLOSED AT ALL TIMES WHEN NOT IN USE

ARTC MAINTENANCE VEHICLES ONLY, TO BE USED WITH A POSSESSION AUTHORITY ONLY "GATE MUST BE SECURED AND LOCKED CLOSED ALL TIMES WHEN NOT IN USE"

END SIGNALLED AUTHORITY
 DO NOT PROCEED UNLESS AUTHORISED

END UP REFUGE LOOPS WORKING

LIMIT 55 SHUNT

1 PILOT REQUIRED TO TRAVERSE AURIZON FACILITY

HJ 210 HOME 174.592 KM	HJ 208 HOME 174.592 KM
HJ 206 HOME 174.592 KM	HJ 204 HOME 174.592 KM
HJ 202 HOME 174.592 KM	HJ 164 UC HOME 174.592 KM

PLATFORM LENGTHS
 No.1 39 M
 No.2 39 M

HEXHAM

SECTION : **HEXHAM TO TARRO**
 MAP SET : **NEWCASTLE TO SCONE**
 UPDATED TO : 3 April 2024

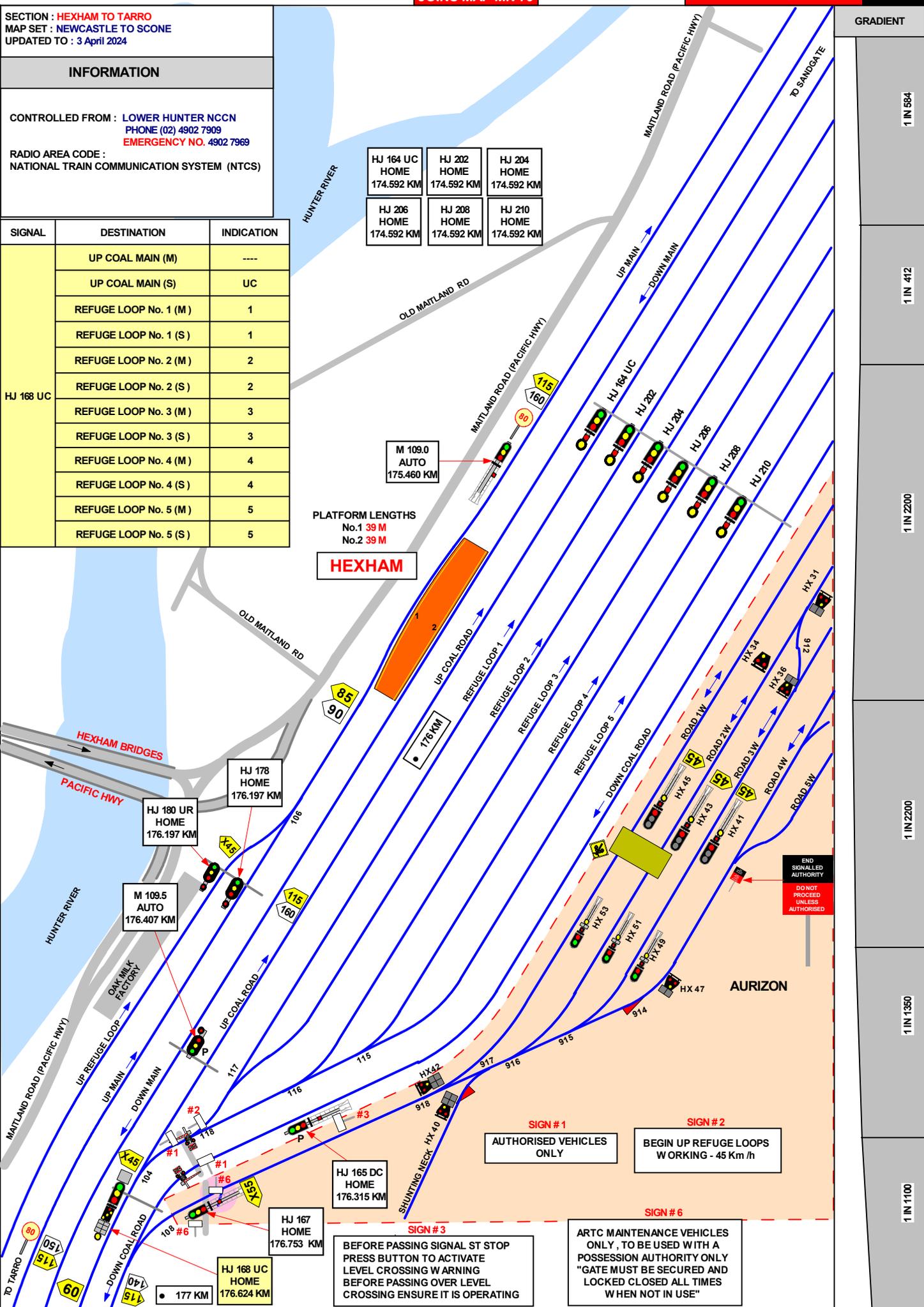
INFORMATION

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 PHONE (02) 4902 7909
EMERGENCY NO. 4902 7969

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
HJ 168 UC	UP COAL MAIN (M)	----
	UP COAL MAIN (S)	UC
	REFUGE LOOP No. 1 (M)	1
	REFUGE LOOP No. 1 (S)	1
	REFUGE LOOP No. 2 (M)	2
	REFUGE LOOP No. 2 (S)	2
	REFUGE LOOP No. 3 (M)	3
	REFUGE LOOP No. 3 (S)	3
	REFUGE LOOP No. 4 (M)	4
	REFUGE LOOP No. 4 (S)	4
HJ 168 UC	REFUGE LOOP No. 5 (M)	5
	REFUGE LOOP No. 5 (S)	5

HJ 164 UC HOME 174.592 KM	HJ 202 HOME 174.592 KM	HJ 204 HOME 174.592 KM
HJ 206 HOME 174.592 KM	HJ 208 HOME 174.592 KM	HJ 210 HOME 174.592 KM



HEXHAM

PLATFORM LENGTHS
 No.1 39 M
 No.2 39 M

END SIGNALLED AUTHORITY
 DO NOT PROCEED UNLESS AUTHORISED

SIGN #1
 AUTHORISED VEHICLES ONLY

SIGN #2
 BEGIN UP REFUGE LOOPS WORKING - 45 Km/h

SIGN #3
 BEFORE PASSING SIGNAL ST STOP PRESS BUTTON TO ACTIVATE LEVEL CROSSING WARNING BEFORE PASSING OVER LEVEL CROSSING ENSURE IT IS OPERATING

SIGN #6
 ARTC MAINTENANCE VEHICLES ONLY, TO BE USED WITH A POSSESSION AUTHORITY ONLY "GATE MUST BE SECURED AND LOCKED CLOSED ALL TIMES WHEN NOT IN USE"

GRADIENT
1 IN 584
1 IN 412
1 IN 200
1 IN 200
1 IN 1350
1 IN 1100

SECTION : TARRO TO BERESFIELD
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : LOWER HUNTER NCCN
PHONE (02) 4902 7909
EMERGENCY NO. 4902 7969
RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

	DESTINATION	INDICATION
HJ 182	UP REFUGE LOOP(M)	OR
	UP MAIN (M)	----

SUPER FREIGHTER
ADVISORY SPEED SIGN

80

GRADIENT

1 IN 3300

1 IN 860

1 IN 4400

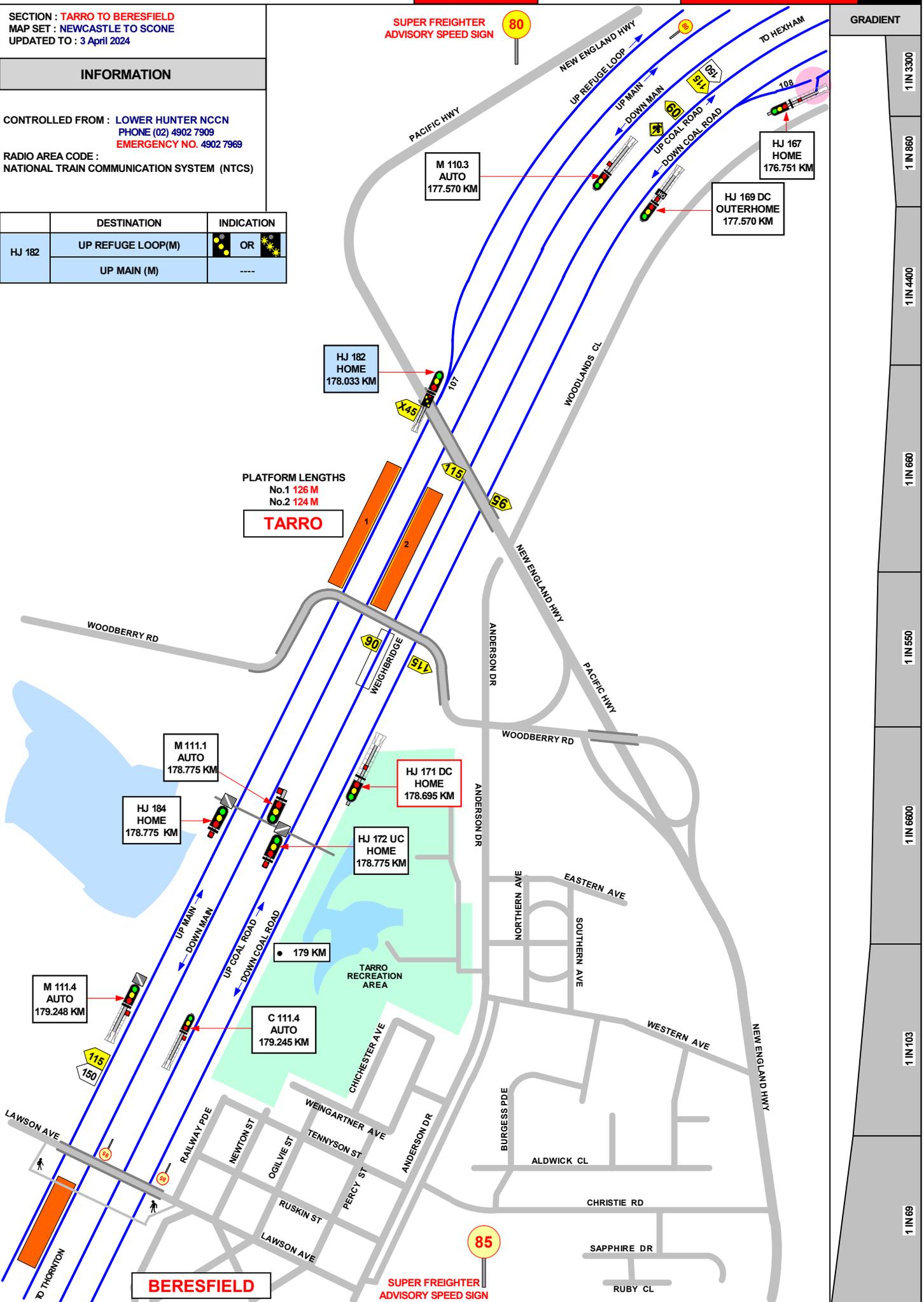
1 IN 660

1 IN 550

1 IN 6600

1 IN 103

1 IN 69



PLATFORM LENGTHS
No.1 126 M
No.2 124 M
TARRO

BERESFIELD

SUPER FREIGHTER
ADVISORY SPEED SIGN

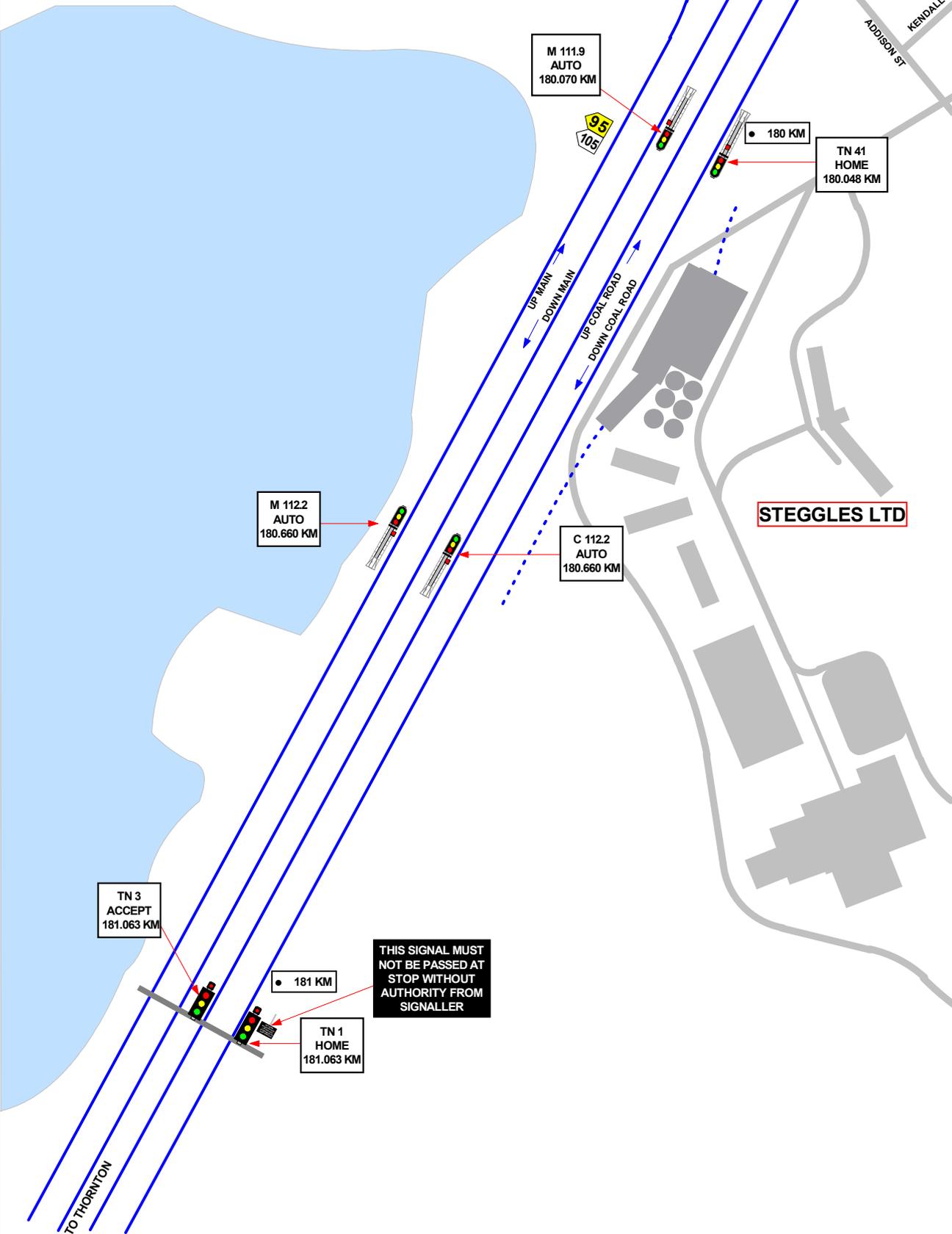
85

SECTION : BERESFIELD TO THORNTON
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

INFORMATION

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PHONE (02) 4902 7909
EMERGENCY NO. 4902 7969
RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT



1 IN 69
1 IN 89
1 IN 114
1 IN 103
1 IN 776
1 IN 1100
1 IN 400
1 IN 69
1 IN 3300
1 IN 60
1 IN 77

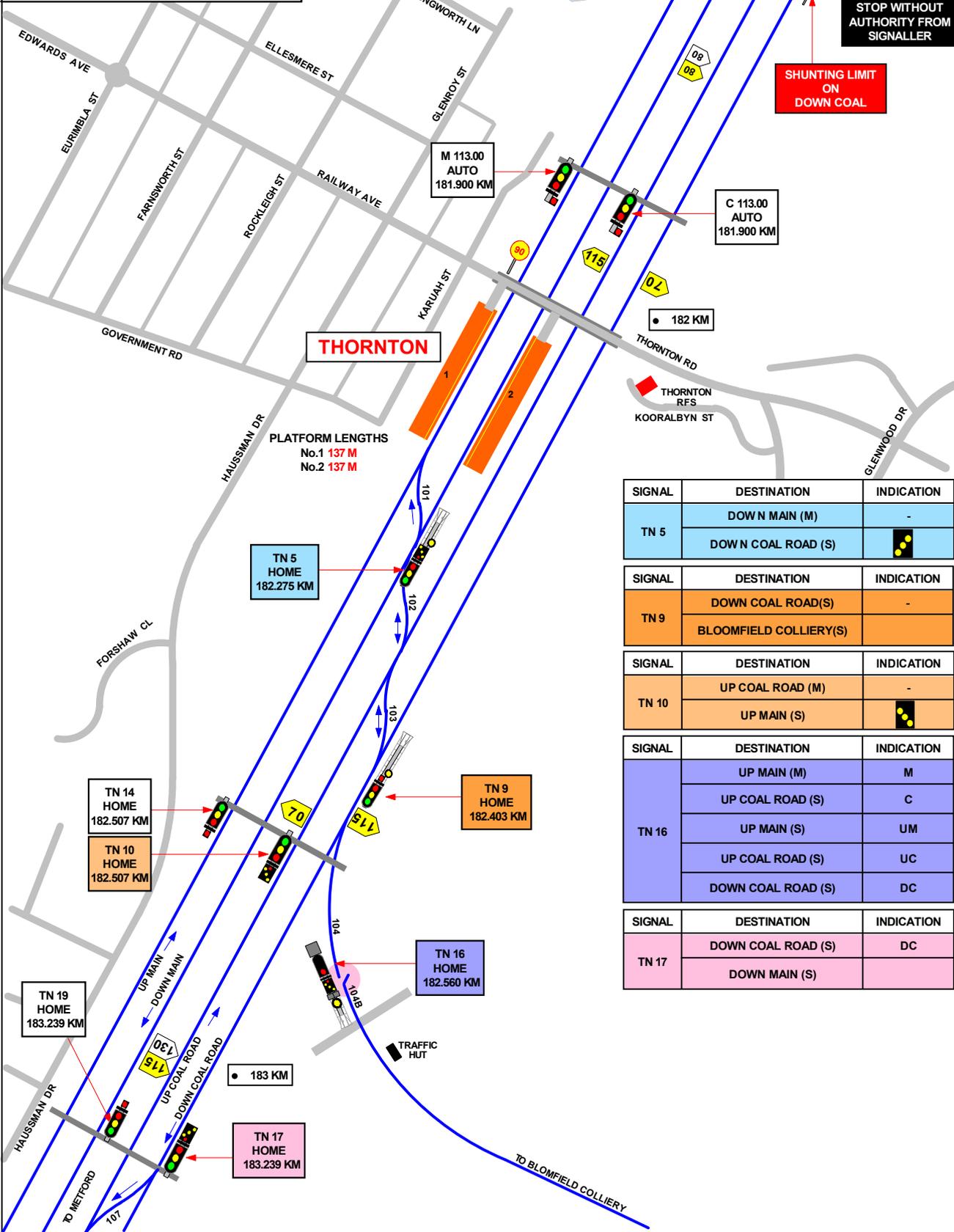
SECTION : THORNTON TO METFORD
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : LOWER HUNTER NCCN
 PHONE (02) 4902 7909
 EMERGENCY NO. 4902 7969

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT



THORNTON

PLATFORM LENGTHS
 No.1 137 M
 No.2 137 M

THIS SIGNAL MUST NOT BE PASSED AT STOP WITHOUT AUTHORITY FROM SIGNALLER

SHUNTING LIMIT ON DOWN COAL

SIGNAL	DESTINATION	INDICATION
TN 5	DOWN MAIN (M)	-
	DOW N COAL ROAD (S)	●●

SIGNAL	DESTINATION	INDICATION
TN 9	DOWN COAL ROAD(S)	-
	BLOOMFIELD COLLIERY(S)	-

SIGNAL	DESTINATION	INDICATION
TN 10	UP COAL ROAD (M)	-
	UP MAIN (S)	●●

SIGNAL	DESTINATION	INDICATION
TN 16	UP MAIN (M)	M
	UP COAL ROAD (S)	C
	UP MAIN (S)	UM
	UP COAL ROAD (S)	UC
TN 17	DOWN COAL ROAD (S)	DC
	DOWN MAIN (S)	-

1 IN 3300

1 IN 60

1 IN 77

1 IN 825

1 IN 147

SECTION : THORNTON TO METFORD
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

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 EMERGENCY NO. 4902 7969

NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
TN 26	UP MAIN (M)	-
	UP COAL ROAD (S)	

GRADIENT

1 IN 69

1 IN 98

1 IN 118

1 IN 101

1 IN 96

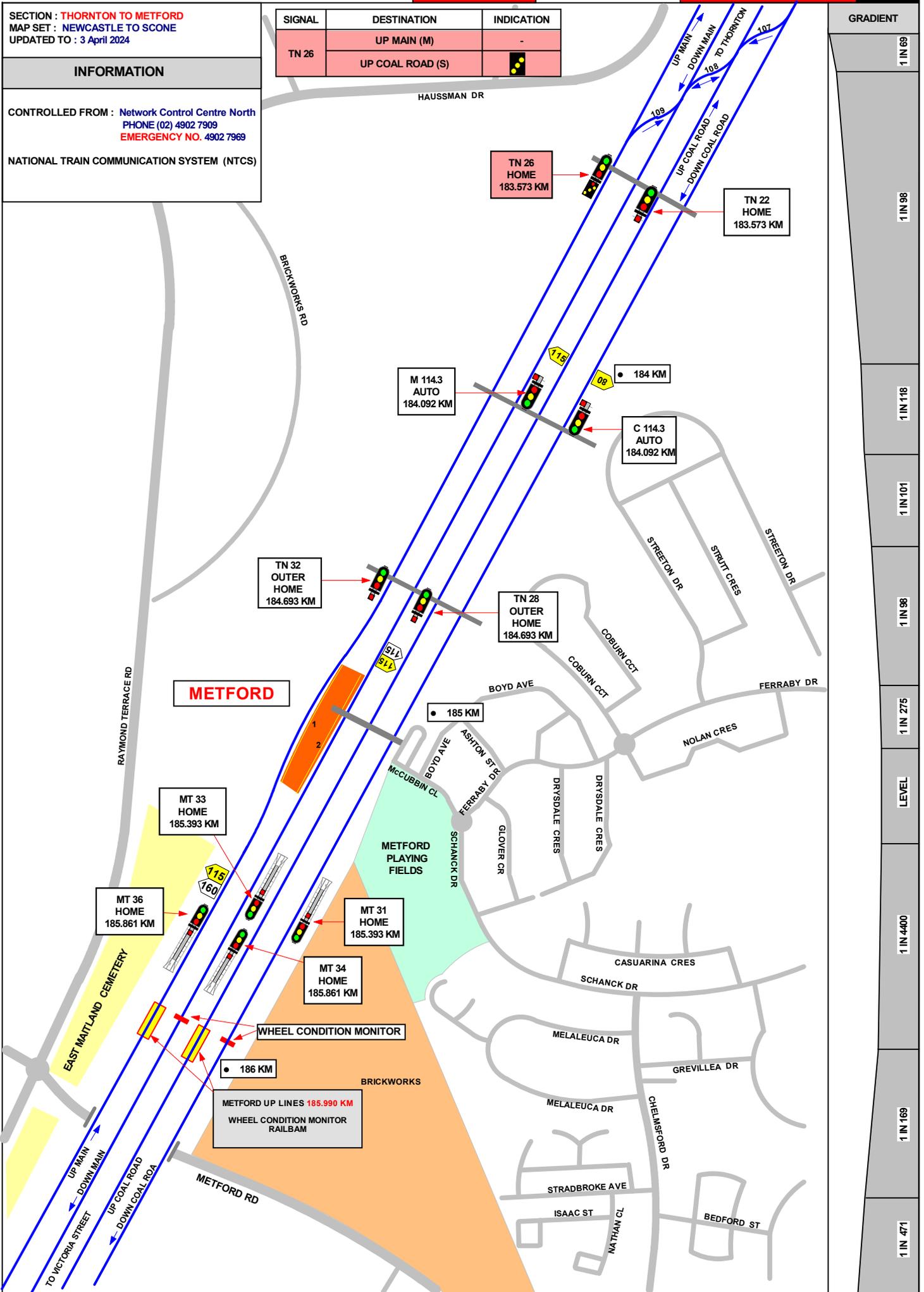
1 IN 275

LEVEL

1 IN 400

1 IN 169

1 IN 471



SECTION : METFORD TO EAST MAITLAND
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

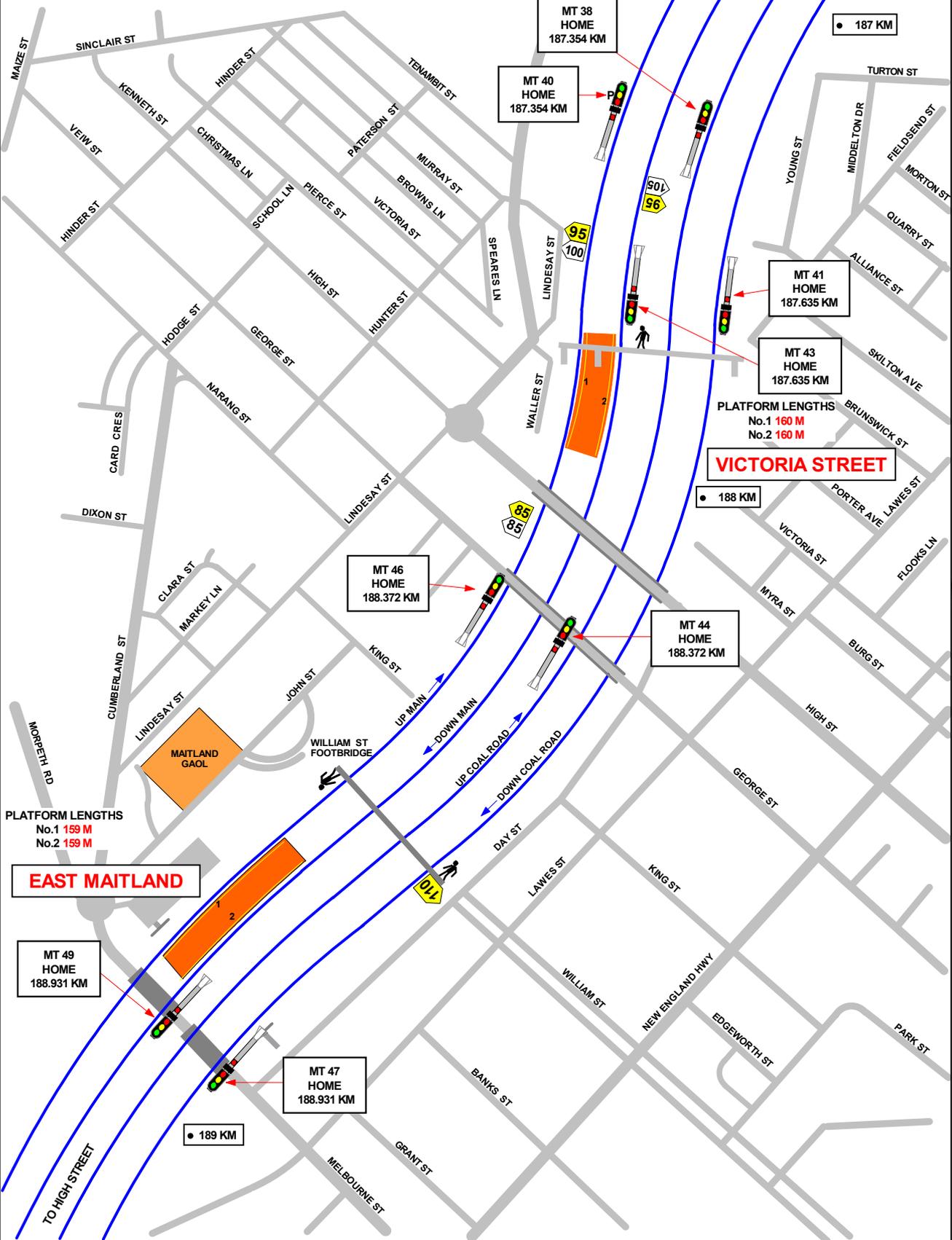
INFORMATION

CONTROLLED FROM : Network Control Centre North
PHONE (02) 4902 7909
EMERGENCY NO. 4902 7969

RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT

1 IN 97
1 IN 113
1 IN 314
1 IN 194
1 IN 82
1 IN 88
1 IN 97
1 IN 287
1 IN 508
1 IN 103
1 IN 165
1 IN 507
1 IN 188
1 IN 227



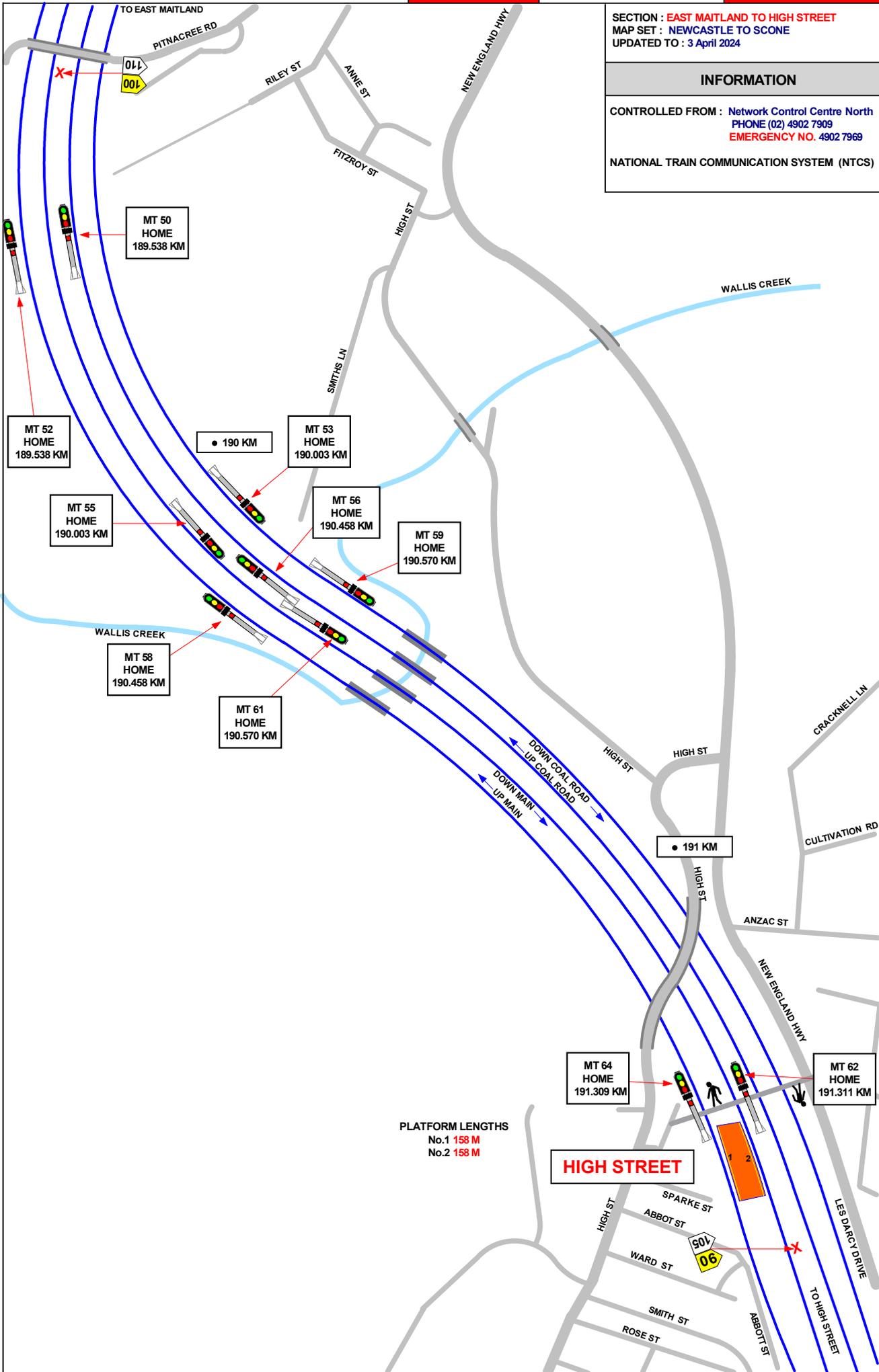
SECTION : EAST MAITLAND TO HIGH STREET
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : Network Control Centre North
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 EMERGENCY NO. 4902 7969

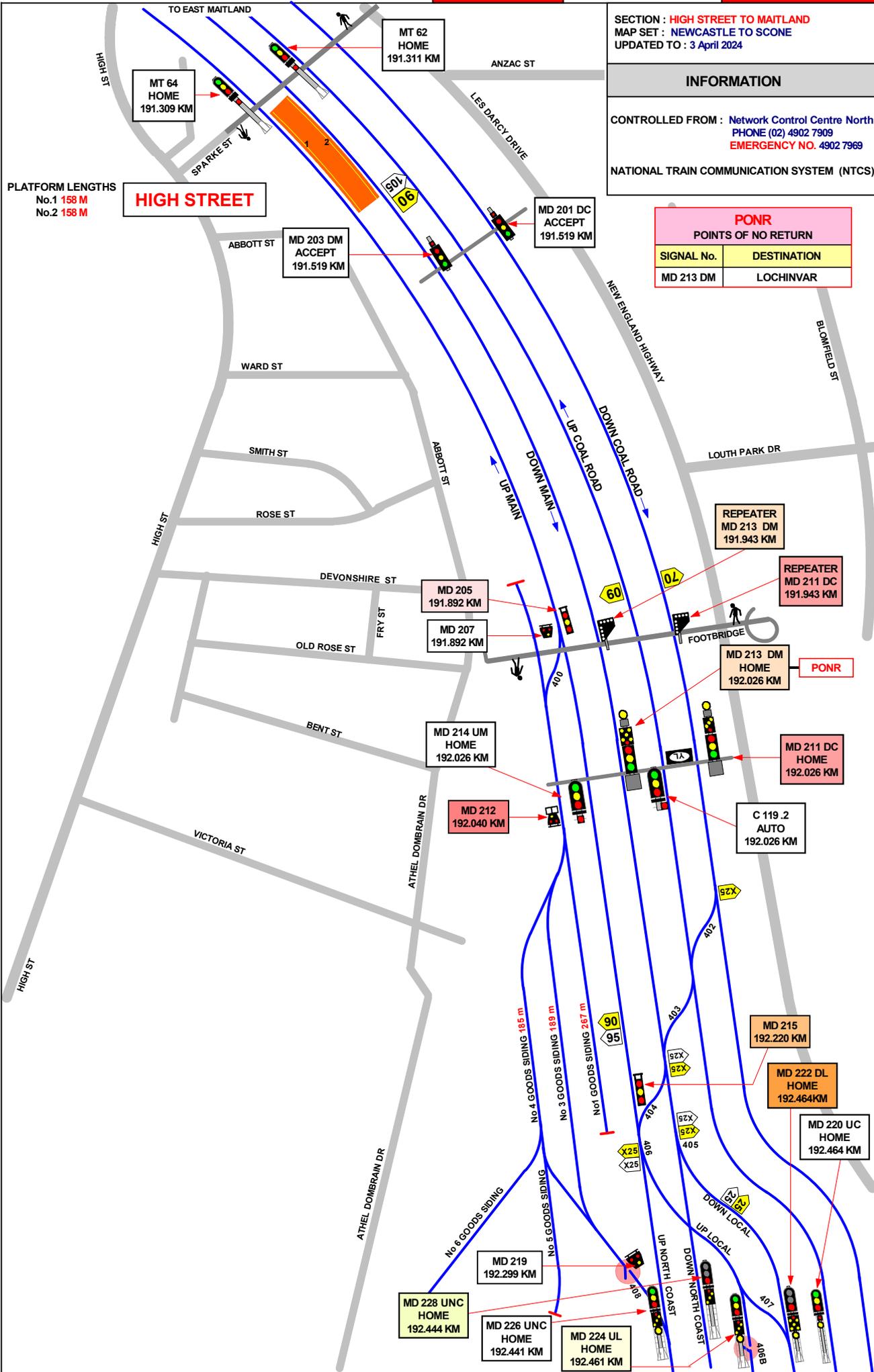
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT	
1 IN 412	
1 IN 227	
1 IN 85	
1 IN 1100	
1 IN 508	
1 IN 942	
1 IN 605	
1 IN 1245	
1 IN 275	



PLATFORM LENGTHS
 No.1 158 M
 No.2 158 M

HIGH STREET



SECTION : HIGH STREET TO MAITLAND
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

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 PHONE (02) 4902 7909
 EMERGENCY NO. 4902 7969

NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

PONR
POINTS OF NO RETURN

SIGNAL No.	DESTINATION
MD 213 DM	LOCHINVAR

PLATFORM LENGTHS
 No.1 158 M
 No.2 158 M

HIGH STREET

GRADIENT

1 IN 275
1 IN 287
1 IN 1320
1 IN 6600
LEVEL
1 IN 660
LEVEL
1 IN 660

JOINS MAP MN 87

JOINS MAP MN 89

SECTION : MAITLAND YARD
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

INFORMATION

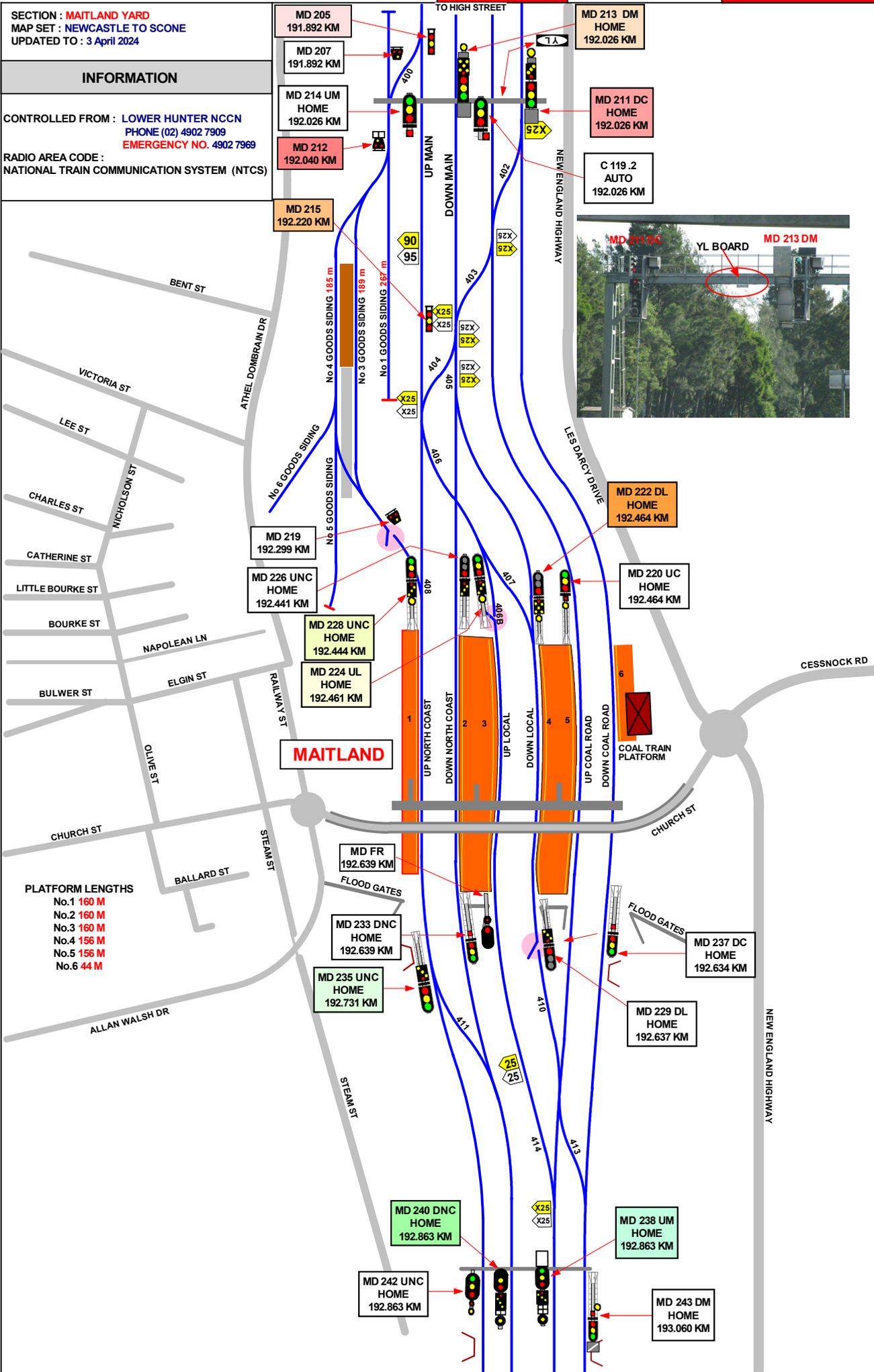
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PHONE (02) 4902 7909
EMERGENCY NO. 4902 7969
RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT

1 IN 660

LEVEL

1 IN 660



- PLATFORM LENGTHS**
- No.1 160 M
 - No.2 160 M
 - No.3 160 M
 - No.4 156 M
 - No.5 156 M
 - No.6 44 M

SECTION : **MAITLAND YARD**
 MAP SET : **NEWCASTLE TO SCONE**
 UPDATED TO : **3 April 2024**

CONTROLLED FROM : **LOWER HUNTER NCCN**
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 EMERGENCY NO. 4902 7969

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
205	UP MAIN (S)	UM
	GOODS SIDING (S)	GS

SIGNAL	DESTINATION	INDICATION
MD 211 DC	DOWN COAL (M)	-
	DOWN COAL (S)	D
	No 4 PLATFORM (M)	+4
	No 4 PLATFORM (S)	4
	No 3 PLATFORM (M)	+3
	No 3 PLATFORM (S)	3
	No 2 PLATFORM (M)	+2
	No 2 PLATFORM (S)	2
	No 1 PLATFORM (M)	+1
	No 1 PLATFORM (S)	1

SIGNAL	DESTINATION	INDICATION
212	SHUNTING NECK (S)	SN
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
MD 213 DM	No 4 PLATFORM (M)	+4
	No 4 PLATFORM (S)	4
	No 3 PLATFORM (M)	+3
	No 3 PLATFORM (S)	3
	No 2 PLATFORM (M)	-
	No 2 PLATFORM (S)	2
	No 1 PLATFORM (M)	+1
	No 1 PLATFORM (S)	1

SIGNAL	DESTINATION	INDICATION
215	No 1 PLATFORM (S)	1
	No 3 PLATFORM (S)	3
	No 4 PLATFORM (S)	4

SIGNAL	DESTINATION	INDICATION
MD 222 DL	UP MAIN (M)	
	DOWN MAIN (S)	-
	DOWN MAIN (M)	

SIGNAL	DESTINATION	INDICATION
MD 224 UL	UP MAIN (M)	-
	UP MAIN (S)	-
	UP COAL (M)	

SIGNAL	DESTINATION	INDICATION
228	GOODS SIDING (S)	GS
	UP MAIN (M)	-
	UP MAIN (S)	UM
	UP COAL (M)	

SIGNAL	DESTINATION	INDICATION
MD 235 UNC	UP NORTH COAST (M)	
	UP NORTH COAST (M)	

SIGNAL	DESTINATION	INDICATION
MD 238 UM	No 3 PLATFORM (M)	+3
	No 3 PLATFORM (S)	3
	No 4 PLATFORM (M)	+4
	No 4 PLATFORM (S)	4
	No 4 PLATFORM (M)	-
	No 5 PLATFORM (S)	5

SIGNAL	DESTINATION	INDICATION
MD 240 DNC	No 1 PLATFORM (M)	1
	No 1 PLATFORM (S)	1
	No 2 PLATFORM (M)	-
	No 2 PLATFORM (S)	2

SIGNAL	DESTINATION	INDICATION
MD 243 DM	DOWN MAIN (M)	---
	UP MAIN (M) VIA 422 PTS	

TRIANGLE TO MAIN NORTH		
SIGNAL	DESTINATION	INDICATION
MD 257 TL	DOWN MAIN (M)	
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
MD 260 UM	TRIANGLE LOOP (M)	
	TRIANGLE LOOP (M)	-

UP COAST AT TELARAH		
SIGNAL	DESTINATION	INDICATION
MD 292 UNC	UP COAST (M)	-
	UP COAST (M)	

DOWN COAST		
SIGNAL	DESTINATION	INDICATION
MD 271 DNC	LOOP LINE (M)	
	LOOP LINE (S)	LL
	DOWN COAST (M)	-
	DOWN COAST (S)	DC

SIGNAL	DESTINATION	INDICATION
MD 273 UNC	LOOP LINE (S)	LL
	DOWN COAST (S)	DC
	UP COAST (M)	-
	UP COAST (S)	UC

TRIANGLE DOWN COAST		
SIGNAL	DESTINATION	INDICATION
MD 275 TL	LOOP LINE (M)	
	LOOP LINE (S)	LL
	DOWN COAST (M)	-
	DOWN COAST (S)	DC

TELARAH YARD		
SIGNAL	DESTINATION	INDICATION
MD 276 LL	UP OR DOWN COAST (M)	
	UP OR DOWN COAST (M)	-
	TRIANGLE LOOP (M)	

SIGNAL	DESTINATION	INDICATION
MD 278 DNC	UP OR DOWN COAST (M)	
	UP OR DOWN COAST (M)	-
	TRIANGLE LOOP (M)	

DOWN COAST MAIN TELARAH		
SIGNAL	DESTINATION	INDICATION
MD 285 DNC	DOWN COAST (M)	-
	DOWN COAST (S)	DC
	UP COAST (M)	
	UP COAST (S)	UC

UP COAST MAIN TELARAH		
SIGNAL	DESTINATION	INDICATION
MD 287 UNC	DOWN COAST (M)	
	DOWN COAST (S)	DC
	UP COAST (M)	
	UP COAST (S)	UC

DOWN COAST TELARAH		
SIGNAL	DESTINATION	INDICATION
MD 290 DNC	UP COAST (M)	
	UP COAST (S)	UC
	DOWN COAST (M)	-
	DOWN COAST (S)	DC

UP SIGNAL AT NEW ENGLAND HIGHWAY BRIDGE TELARAH		
SIGNAL	DESTINATION	INDICATION
MD 304 UNC	UP COAST (M)	-
	UP COAST (S)	UC
	DOWN COAST (M)	+D
	DOWN COAST (S)	DC
	LOOP LINE (M)	+L

SECTION : MAITLAND JUNCTION
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : LOWER HUNTER NCCN
 PHONE (02) 4902 7909
 EMERGENCY NO. 4902 7969

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
MD 243 DM	DOWN EAST GREAT JN (S)	----
	DOWN MAIN (M)	

SIGNAL	DESTINATION	INDICATION
MD 271 DNC	LOOP LINE (M)	50
	LOOP LINE (S)	LL
	DN NTH COAST (M)	----
	DN NTH COAST (S)	DC

SIGNAL	DESTINATION	INDICATION
MD 273 UNC	LOOP LINE (M)	LL
	DN NTH COAST (S)	DC
	UP NTH COAST (M)	----
	UP NTH COAST (S)	UC

SIGNAL	DESTINATION	INDICATION
MD 275 TL	LOOP LINE (M)	50
	LOOP LINE (S)	LL
	DN NTH COAST (M)	----
	DN NTH COAST (S)	DC

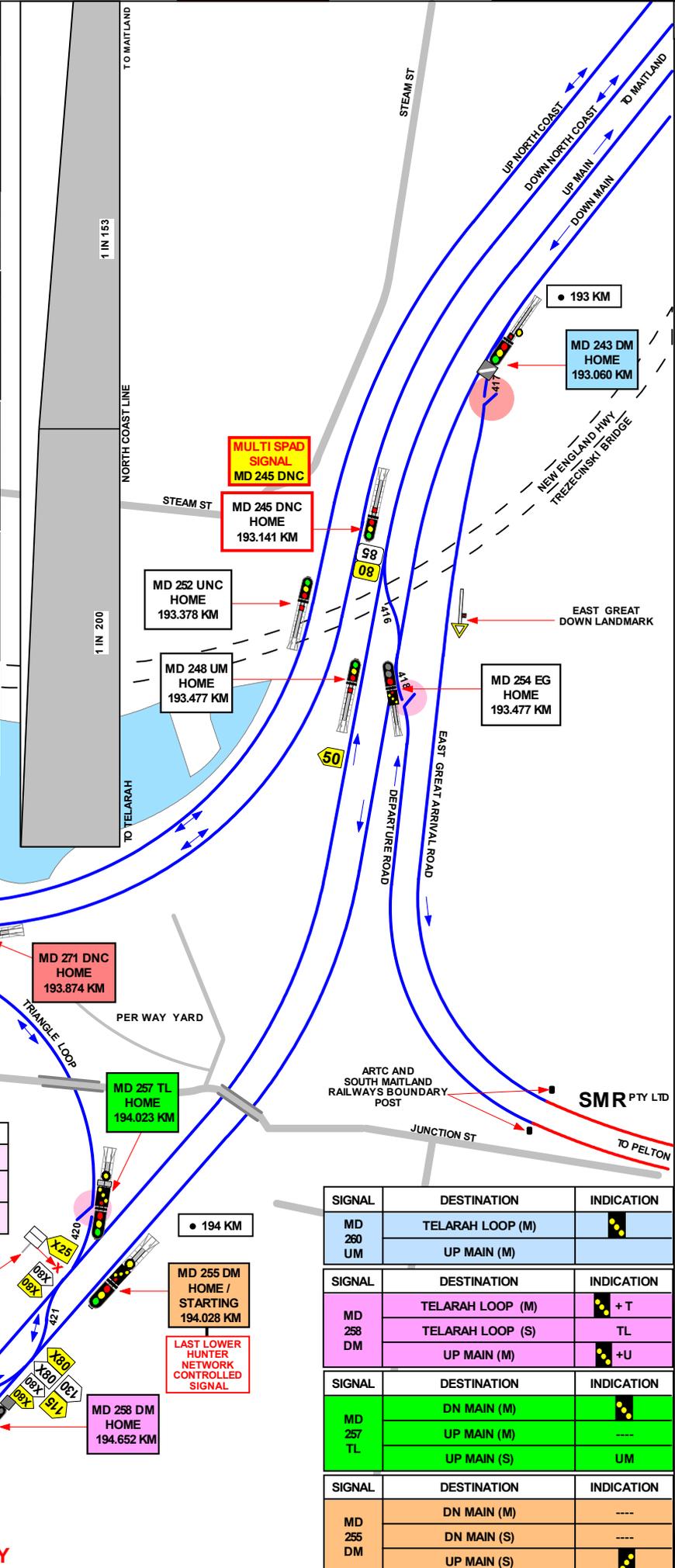
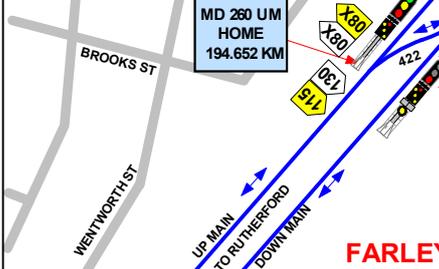
SIGNAL	DESTINATION	INDICATION
MD 276 LL	UP OR DOWN COAST (M)	50
	UP OR DOWN COAST (M)	-
	TRIANGLE LOOP (M)	50

SIGNAL	DESTINATION	INDICATION
MD 278 DNC	UP OR DOWN COAST (M)	50
	UP OR DOWN COAST (M)	-
	TRIANGLE LOOP (M)	50

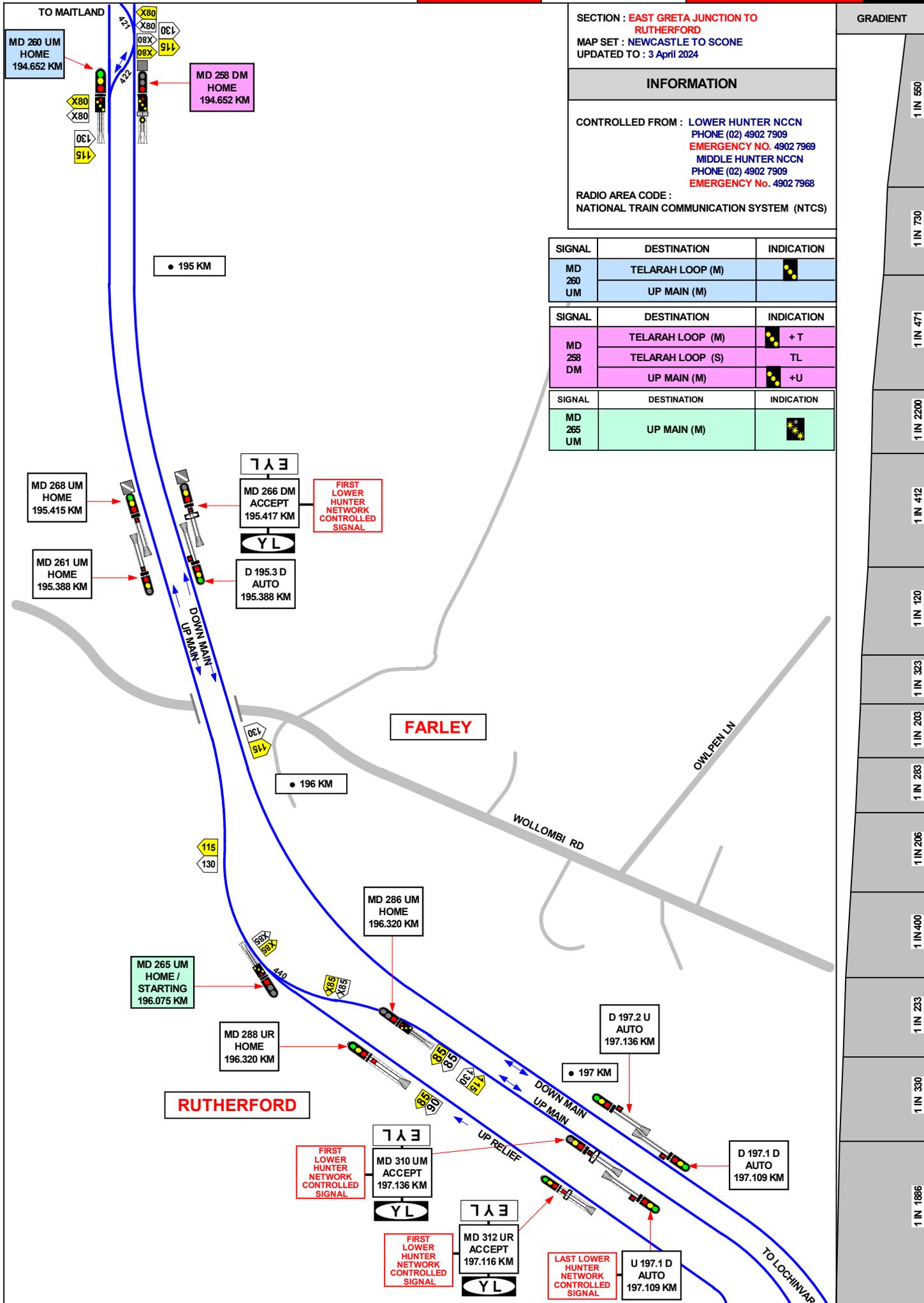


SIGNAL	DESTINATION	INDICATION
MD 278 DNC	UP OR DOWN COAST (M)	50
	UP OR DOWN COAST (M)	-
	TRIANGLE LOOP (M)	50

MUST NOT EXCEED 20 km/h
 OF 2 TONNES OR LESS
 VEHICLES WITH GVM
 9200 KG
 SPRING WING CROSSING
 420 CROSSOVER
 VEHICLES WITH GVM
 OF 2 TONNES OR LESS
 MUST NOT EXCEED 20 km/h



SIGNAL	DESTINATION	INDICATION
MD 260 UM	TELARAH LOOP (M)	50
	UP MAIN (M)	
MD 258 DM	TELARAH LOOP (M)	+ T
	TELARAH LOOP (S)	TL
	UP MAIN (M)	+ U
MD 257 TL	DN MAIN (M)	50
	UP MAIN (M)	----
	UP MAIN (S)	UM
MD 255 DM	DN MAIN (M)	----
	DN MAIN (S)	----
	UP MAIN (S)	50



SECTION : EAST GRETA JUNCTION TO RUTHERFORD
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

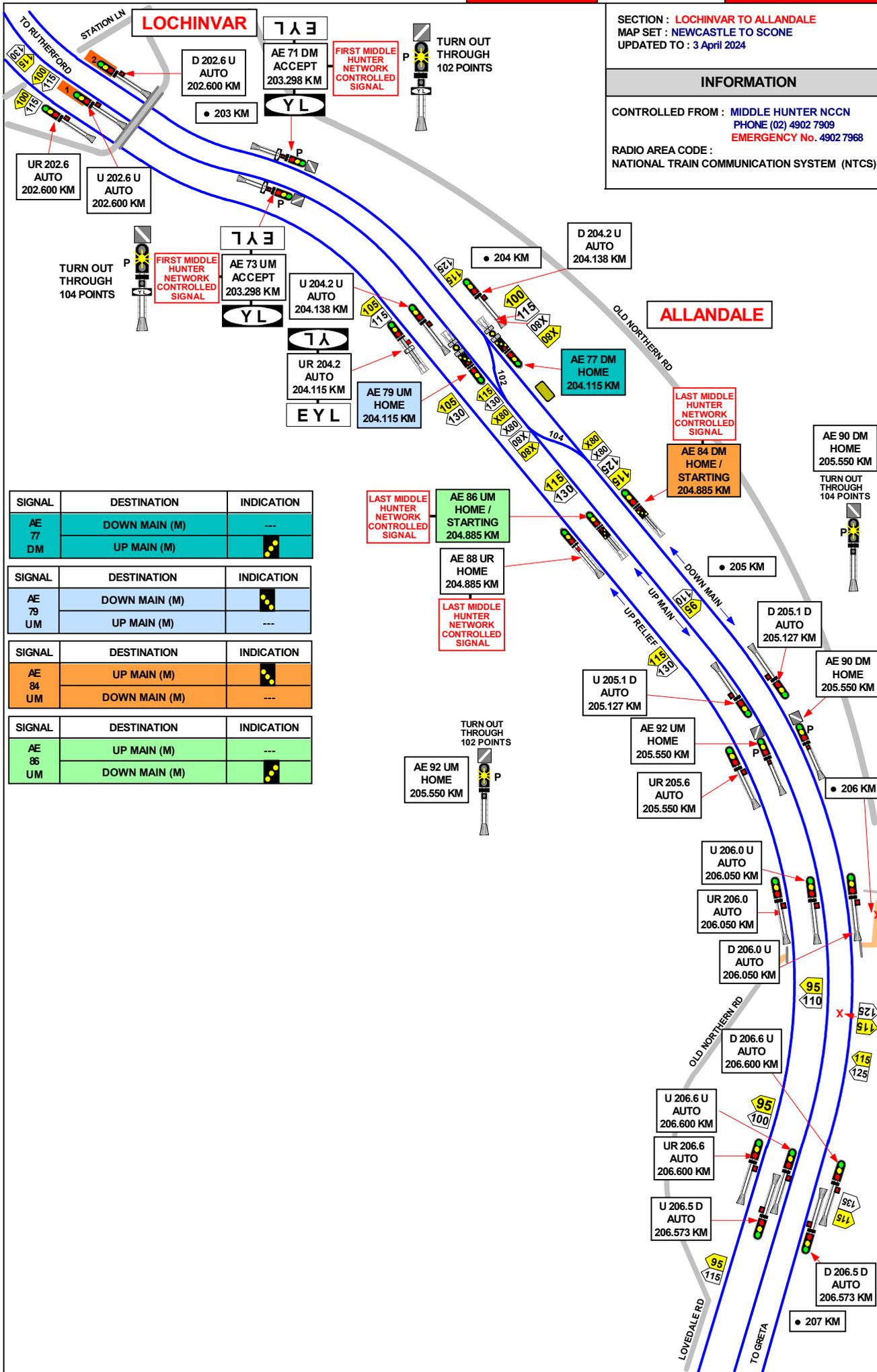
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 PHONE (02) 4902 7909
 EMERGENCY NO. 4902 7969
 MIDDLE HUNTER NCCN
 PHONE (02) 4902 7909
 EMERGENCY No. 4902 7968

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
MD 260 UM	TELARAH LOOP (M)	●●●
	UP MAIN (M)	
MD 258 DM	TELARAH LOOP (M)	●●● + T
	TELARAH LOOP (S)	TL
	UP MAIN (M)	●●● + U
MD 265 UM	UP MAIN (M)	●●●●

GRADIENT

1 IN 650
1 IN 730
1 IN 471
1 IN 2200
1 IN 412
1 IN 120
1 IN 323
1 IN 203
1 IN 283
1 IN 206
1 IN 400
1 IN 233
1 IN 330
1 IN 1886

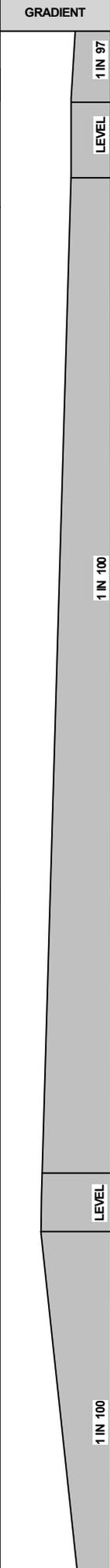


SECTION : **LOCHINVAR TO ALLANDEALE**
 MAP SET : **NEWCASTLE TO SCONE**
 UPDATED TO : 3 April 2024

INFORMATION

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 PHONE (02) 4902 7909
 EMERGENCY No. 4902 7968

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)



SIGNAL	DESTINATION	INDICATION
AE 77 DM	DOWN MAIN (M)	---
	UP MAIN (M)	●●●
AE 79 UM	DOWN MAIN (M)	●●●
	UP MAIN (M)	---
AE 84 UM	UP MAIN (M)	●●●
	DOWN MAIN (M)	---
AE 86 UM	UP MAIN (M)	---
	DOWN MAIN (M)	●●●

SECTION : ALLANDALE TO GRETA
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

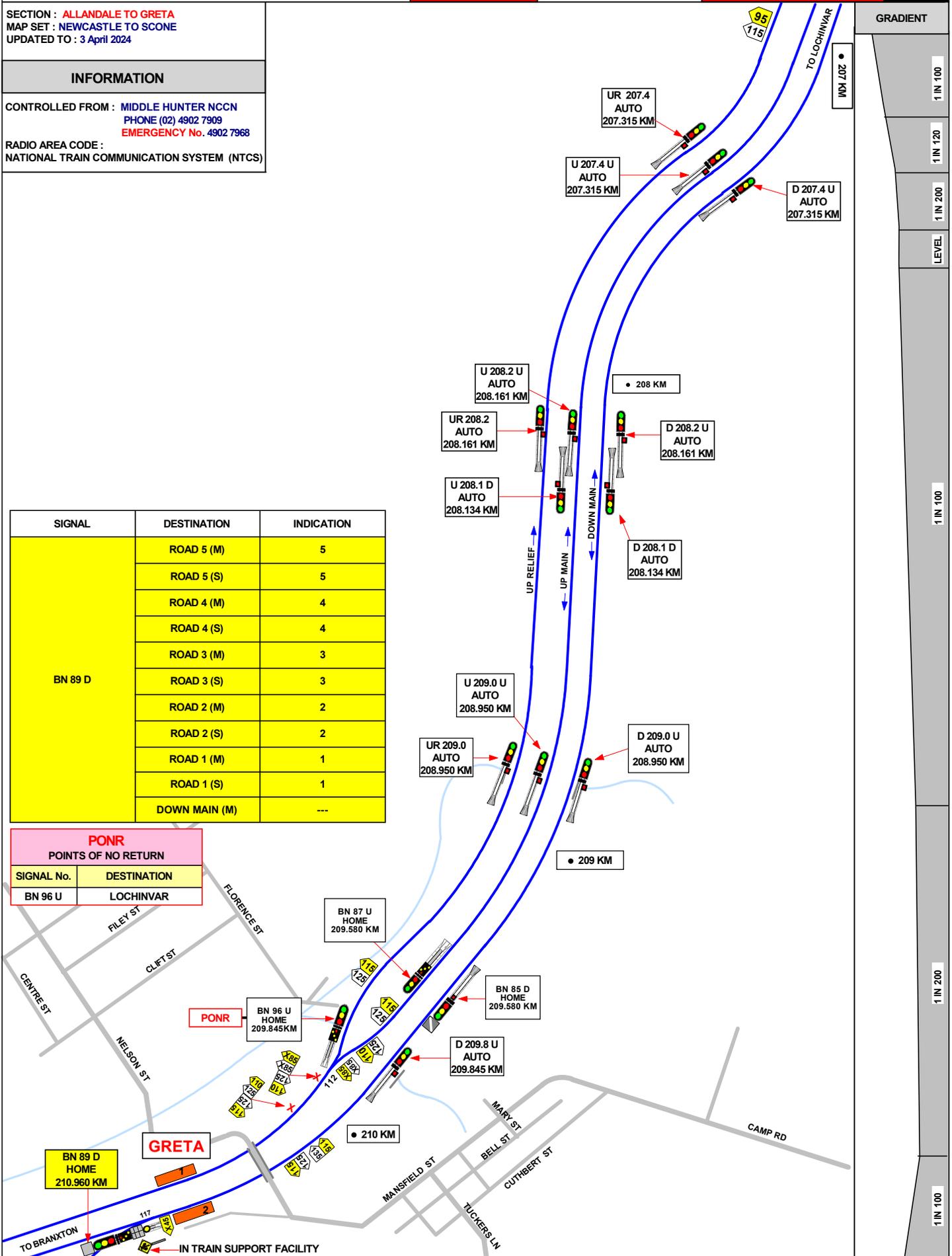
INFORMATION

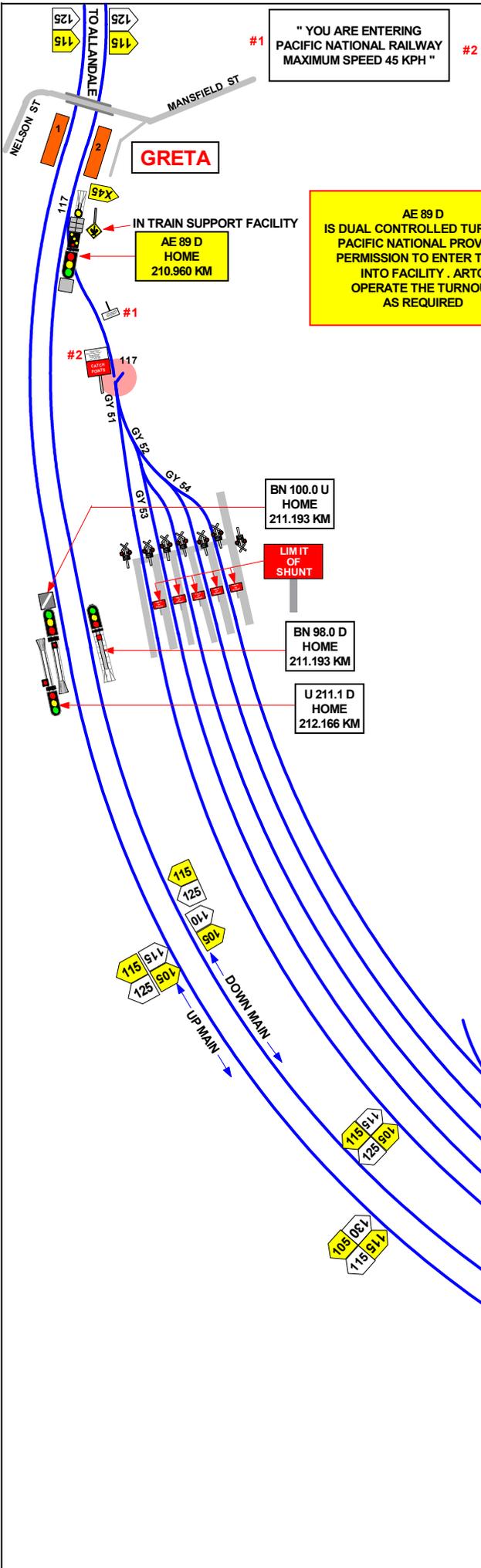
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 PHONE (02) 4902 7909
 EMERGENCY No. 4902 7968
 RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
BN 89 D	ROAD 5 (M)	5
	ROAD 5 (S)	5
	ROAD 4 (M)	4
	ROAD 4 (S)	4
	ROAD 3 (M)	3
	ROAD 3 (S)	3
	ROAD 2 (M)	2
	ROAD 2 (S)	2
	ROAD 1 (M)	1
	ROAD 1 (S)	1
	DOWN MAIN (M)	---

PONR
POINTS OF NO RETURN

SIGNAL No.	DESTINATION
BN 96 U	LOCHINVAR





#1 " YOU ARE ENTERING PACIFIC NATIONAL RAILWAY MAXIMUM SPEED 45 KPH "

#2 " YOU ARE LEAVING PACIFIC NATIONAL RAILWAY BEYOND THIS POINT YOU ARE ENTERING ARTC NETWORK "

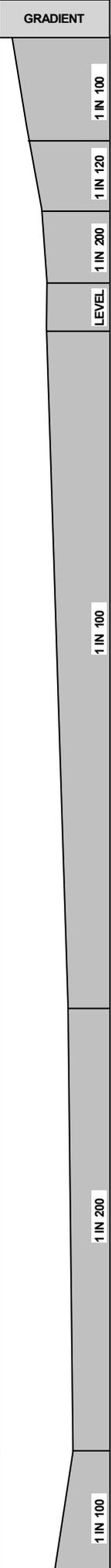
AE 89 D IS DUAL CONTROLLED TURNOUT. PACIFIC NATIONAL PROVIDES PERMISSION TO ENTER TRAIN INTO FACILITY. ARTC OPERATE THE TURNOUT AS REQUIRED

SECTION : Greta TO BRANXTON
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

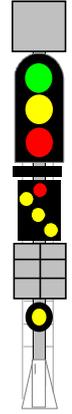
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 EMERGENCY No. 4902 7968

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)



SIGNAL	DESTINATION	INDICATION
AE 89 D	ROAD 5 (M)	5
	ROAD 5 (S)	5
	ROAD 4 (M)	4
	ROAD 4 (S)	4
	ROAD 3 (M)	3
	ROAD 3 (S)	3
	ROAD 2 (M)	2
	ROAD 2 (S)	2
	ROAD 1 (M)	1
	ROAD 1 (S)	1
	DOWN MAIN (M)	---



SECTION : GRETA TO BRANXTON
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

GRADIENT

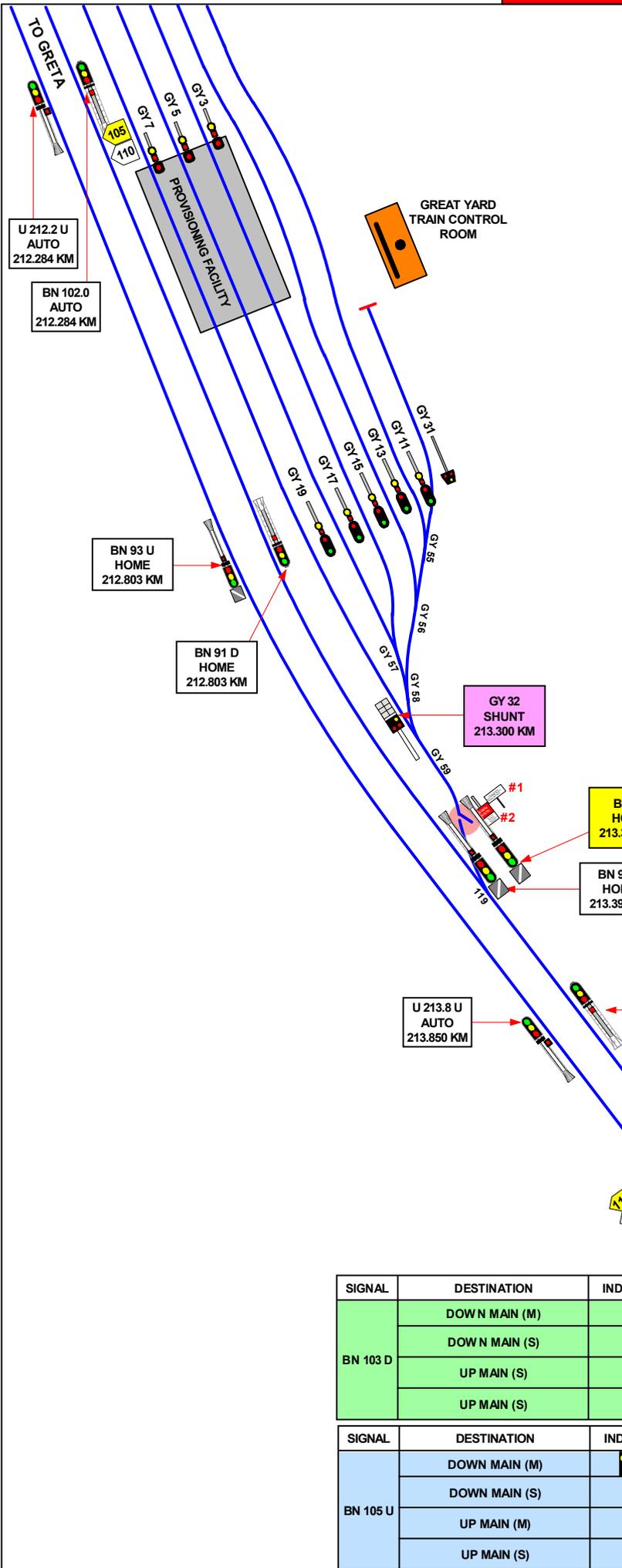
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 EMERGENCY No. 4902 7968
 RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

#1 " YOU ARE ENTERING
 PACIFIC NATIONAL RAILWAY
 MAXIMUM SPEED 45 KPH "

#2 YOU ARE LEAVING
 PACIFIC NATIONAL RAILWAY
 BEYOND THIS POINT YOU ARE ENTERING
 THE ARTC NETWORK

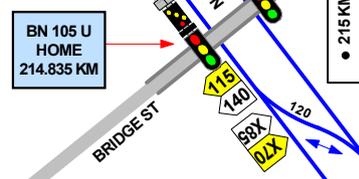
SIGNAL	DESTINATION	INDICATION
GY 32	ROAD 1 (S)	1
	ROAD 2 (S)	2
	ROAD3 (S)	3
	ROAD 4 (S)	4
	ROAD 5 (M)	5
	LOCO WASH (S)	L



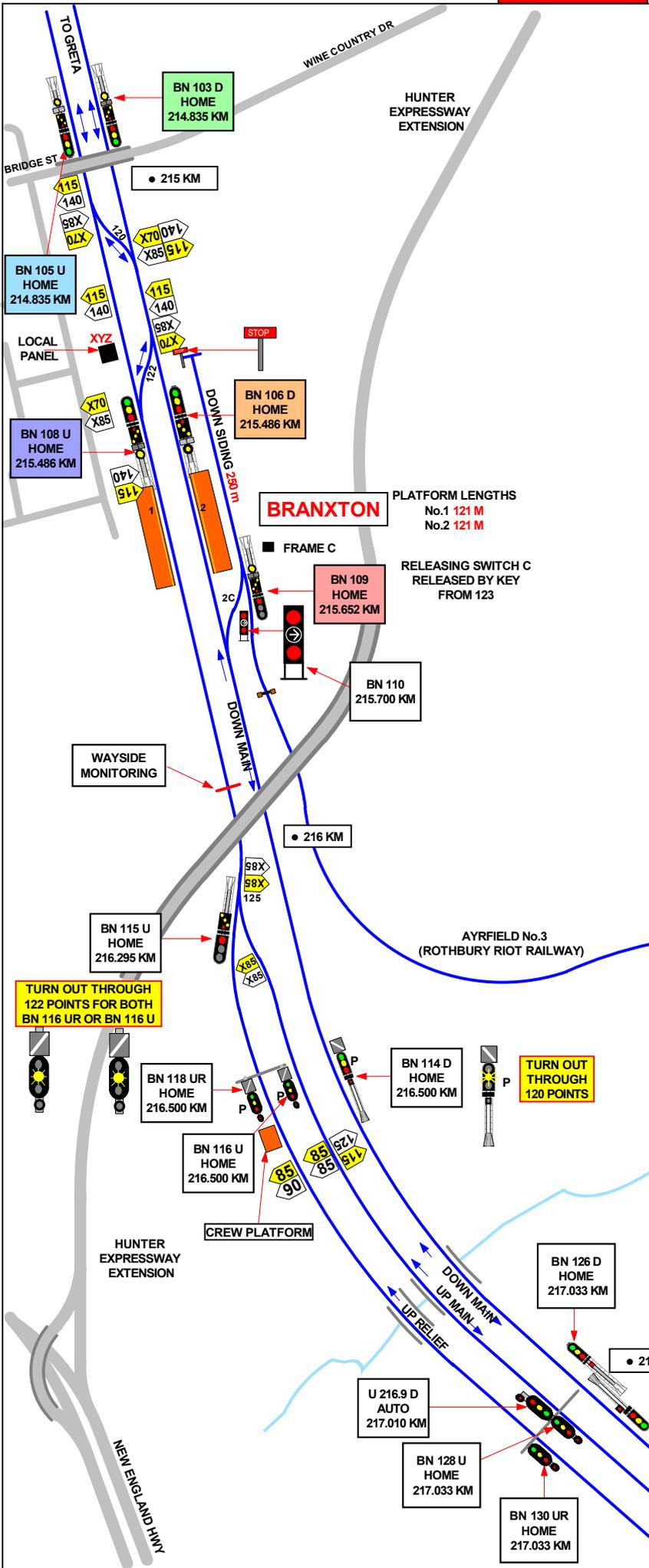
BN 95 IS DUAL CONTROLLED TURNOUT. PACIFIC NATIONAL REQUEST PERMISSION TO EXIT TRAIN FACILITY . ARTC OPERATE THE TURNOUT AS REQUIRED

SIGNAL	DESTINATION	INDICATION
BN 103 D	DOWN MAIN (M)	----
	DOWN MAIN (S)	DM
	UP MAIN (S)	●●●
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
BN 105 U	DOWN MAIN (M)	●●●
	DOWN MAIN (S)	DM
	UP MAIN (M)	----
	UP MAIN (S)	UM



1 IN 120
 LEVEL
 1 IN 120
 1 IN 100
 LEVEL
 1 IN 100
 LEVEL
 1 IN 100
 LEVEL



SECTION : BRANXTON TO BELFORD
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : MIDDLE HUNTER NCCN
 PHONE (02) 4902 7909
 EMERGENCY No. 4902 7968

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT	
LEVEL	
1 IN 110	
1 IN 87	

SIGNAL	DESTINATION	INDICATION
BN 103 D	DOWN MAIN (M)	----
	DOWN MAIN (S)	DM
	UP MAIN (M)	●●●
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
BN 105 U	DOWN MAIN (M)	●●●
	DOWN MAIN (S)	DM
	UP MAIN (M)	----
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
BN 106 D	UP MAIN (M)	●●●
	UP MAIN (S)	UM
	DOWN MAIN (M)	----
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
BN 108 U	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (S)	●●●
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
BN 109	SIDING	←
	DOWN MAIN (M)	●●●
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
BN 115 U	UP MAIN	●●●

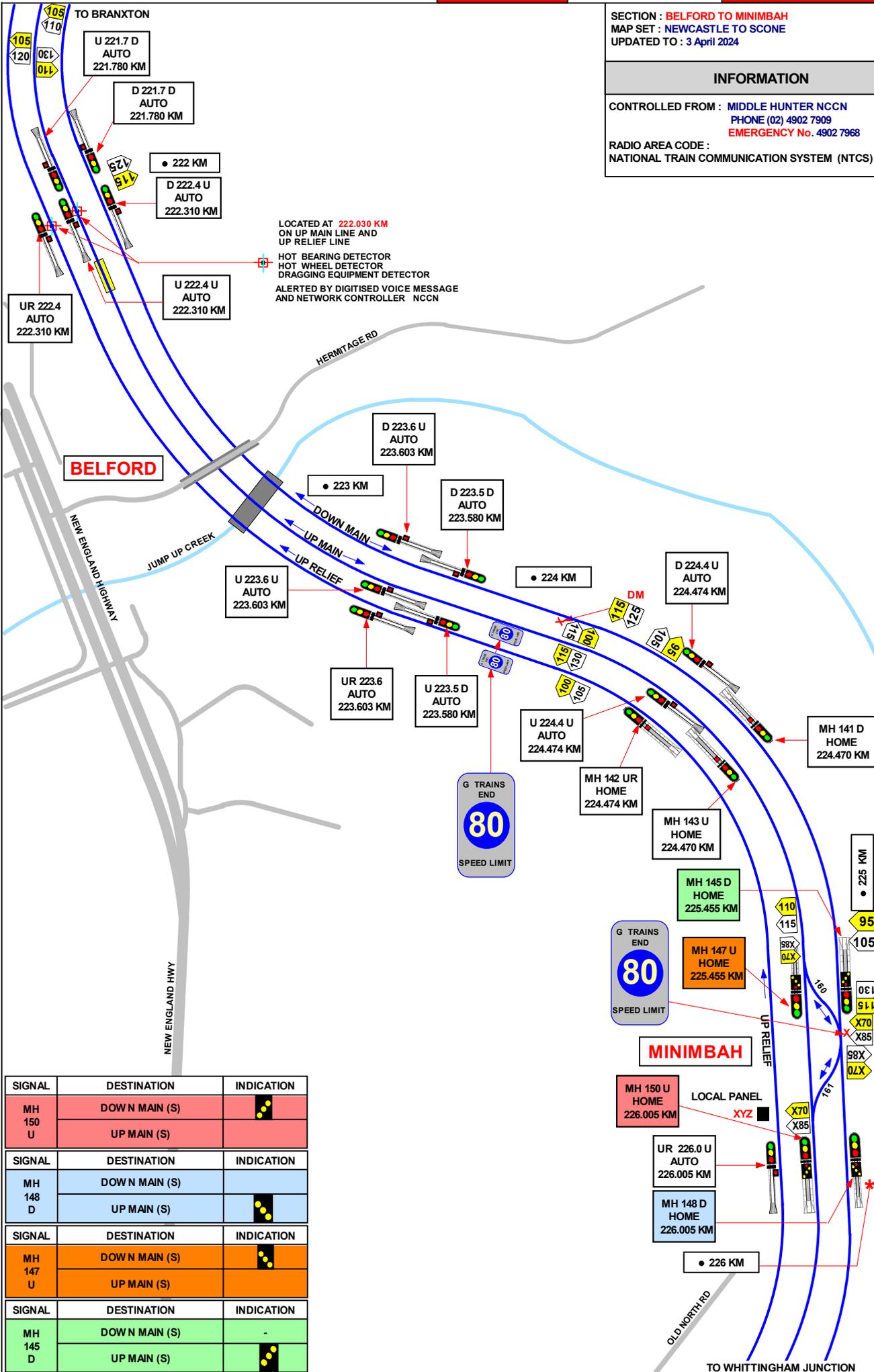
SECTION : BELFORD TO MINIMBAH
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : MIDDLE HUNTER NCCN
 PHONE (02) 4902 7909
 EMERGENCY No. 4902 7968
 RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

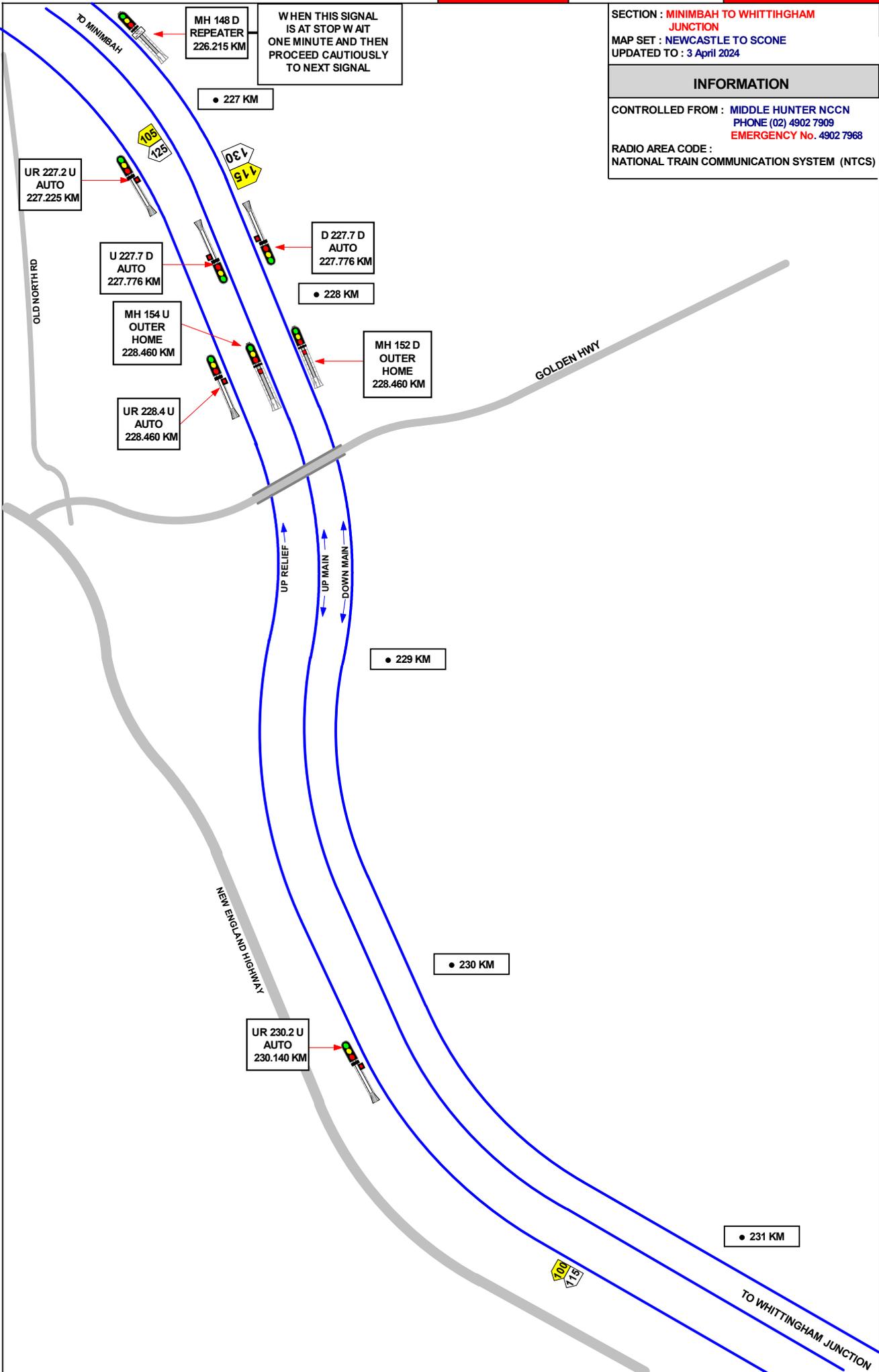
GRADIENT

1 IN 85
E
1 IN 103
1 IN 100
1 IN 153
1 IN 314
1 IN 125
1 IN 93
1 IN 80
1 IN 81
1 IN 76
1 IN 80
1 IN 94



LOCATED AT 222.030 KM
 ON UP MAIN LINE AND
 UP RELIEF LINE
 HOT BEARING DETECTOR
 HOT WHEEL DETECTOR
 DRAGGING EQUIPMENT DETECTOR
 ALERTED BY DIGITISED VOICE MESSAGE
 AND NETWORK CONTROLLER NCCN

SIGNAL	DESTINATION	INDICATION
MH 150 U	DOWN MAIN (S)	●●●
	UP MAIN (S)	●●●
MH 148 D	DOWN MAIN (S)	●●●
	UP MAIN (S)	●●●
MH 147 U	DOWN MAIN (S)	●●●
	UP MAIN (S)	●●●
MH 145 D	DOWN MAIN (S)	-
	UP MAIN (S)	●●●



SECTION : MINIMBAH TO WHITTINGHAM JUNCTION
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : MIDDLE HUNTER NCCN
 PHONE (02) 4902 7909
 EMERGENCY No. 4902 7968

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT	
1 IN 94	
1 IN 103	
1 IN 76	
1 IN 86	
1 IN 77	
1 IN 94	
1 IN 99	
1 IN 183	
1 IN 1435	
1 IN 440	
1 IN 506	
1 IN 431	
1 IN 660	

SECTION :WHITTINGHAM JUNCTION TO SINGLETON
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : MIDDLE HUNTER NCCN
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 EMERGENCY No. 4902 7968

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

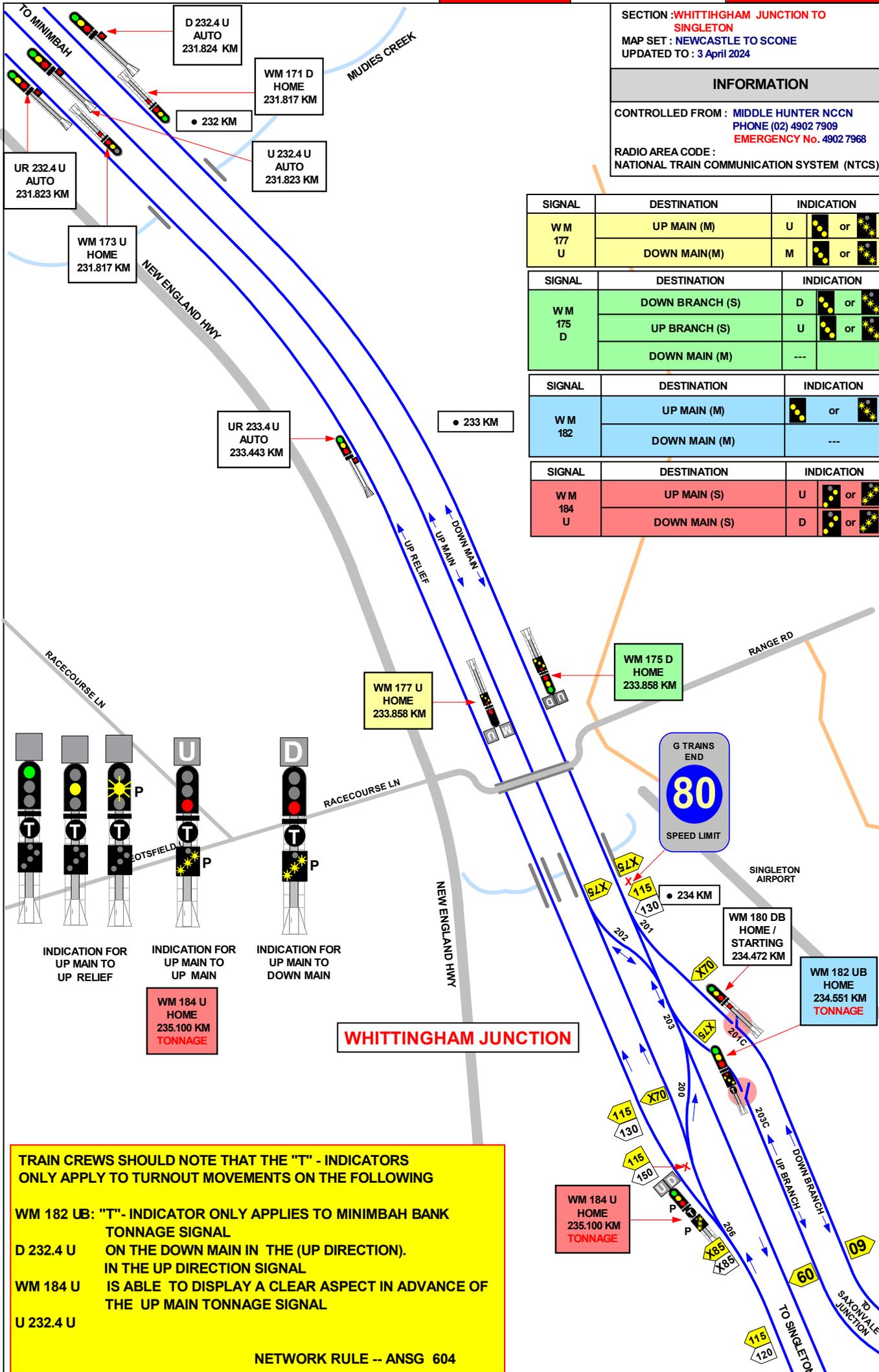
GRADIENT	
1 IN 1467	L
1 IN 1650	L
1 IN 1100	L
1 IN 350	L
1 IN 264	L
1 IN 1467	L
1 IN 1100	L
1 IN 970	L

SIGNAL	DESTINATION	INDICATION
WM 177 U	UP MAIN (M)	U or
	DOWN MAIN (M)	M or

SIGNAL	DESTINATION	INDICATION
WM 175 D	DOWN BRANCH (S)	D or
	UP BRANCH (S)	U or
	DOWN MAIN (M)	---

SIGNAL	DESTINATION	INDICATION
WM 182 U	UP MAIN (M)	or
	DOWN MAIN (M)	---

SIGNAL	DESTINATION	INDICATION
WM 184 U	UP MAIN (S)	U or
	DOWN MAIN (S)	D or



TRAIN CREWS SHOULD NOTE THAT THE "T" - INDICATORS ONLY APPLY TO TURNOUT MOVEMENTS ON THE FOLLOWING

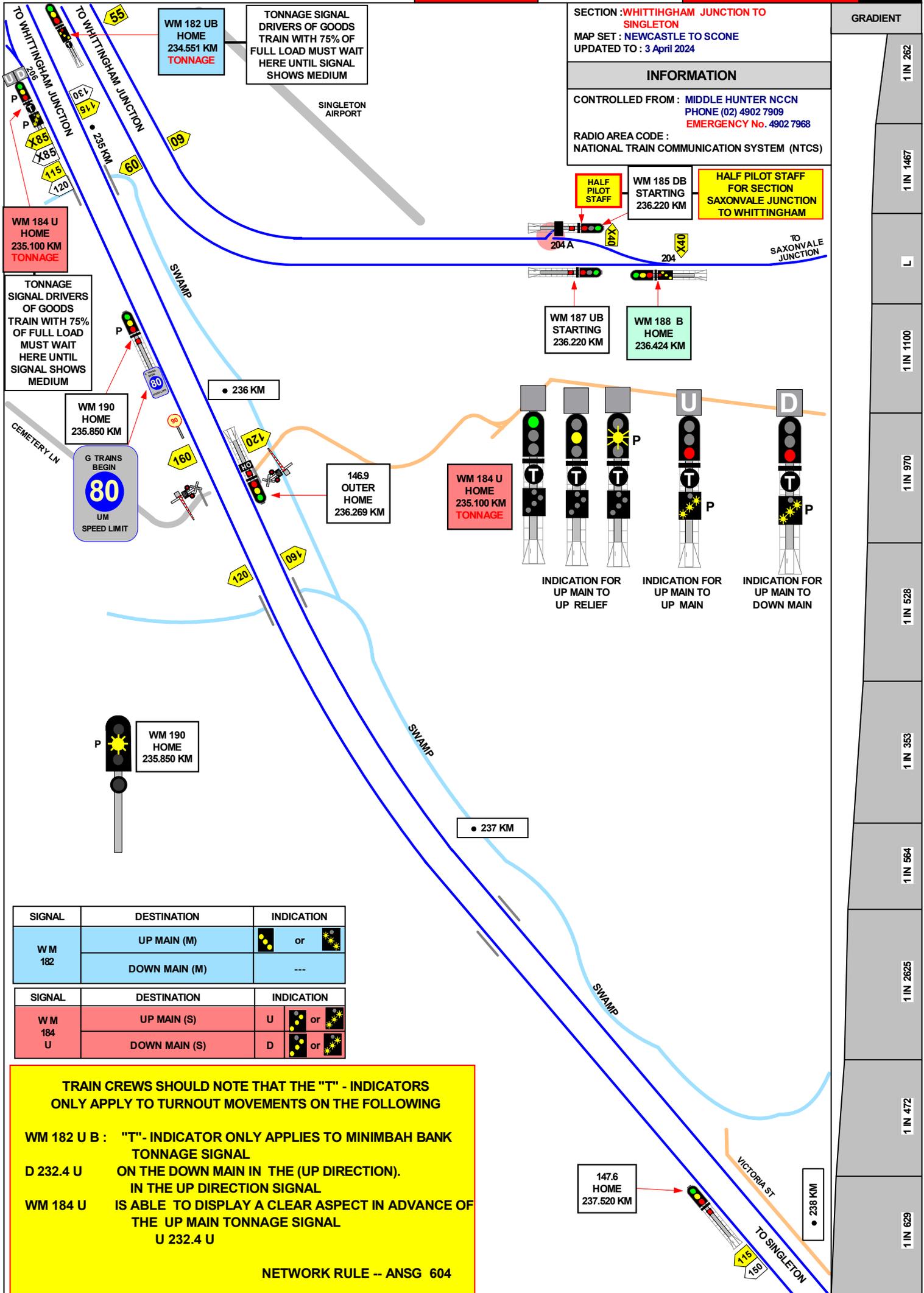
WM 182 UB: "T"- INDICATOR ONLY APPLIES TO MINIMBAH BANK TONNAGE SIGNAL

D 232.4 U ON THE DOWN MAIN IN THE (UP DIRECTION). IN THE UP DIRECTION SIGNAL

WM 184 U IS ABLE TO DISPLAY A CLEAR ASPECT IN ADVANCE OF THE UP MAIN TONNAGE SIGNAL

U 232.4 U

NETWORK RULE -- ANSG 604



SECTION : WHITTINGHAM JUNCTION TO SINGLETON
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

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 EMERGENCY No. 4902 7968

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

WM 185 DB STARTING 236.220 KM
 HALF PILOT STAFF FOR SECTION SAXONVALE JUNCTION TO WHITTINGHAM

WM 187 UB STARTING 236.220 KM
 WM 188 B HOME 236.424 KM

WM 184 U HOME 235.100 KM TONNAGE

TONNAGE SIGNAL DRIVERS OF GOODS TRAIN WITH 75% OF FULL LOAD MUST WAIT HERE UNTIL SIGNAL SHOWS MEDIUM

WM 190 HOME 235.850 KM
 G TRAINS BEGIN
 80 U.M SPEED LIMIT

146.9 OUTER HOME 236.269 KM

WM 184 U HOME 235.100 KM TONNAGE

WM 190 HOME 235.850 KM

SIGNAL	DESTINATION	INDICATION
WM 182	UP MAIN (M)	or
	DOWN MAIN (M)	---
WM 184 U	UP MAIN (S)	U or
	DOWN MAIN (S)	D or

TRAIN CREWS SHOULD NOTE THAT THE "T" - INDICATORS ONLY APPLY TO TURNOUT MOVEMENTS ON THE FOLLOWING

WM 182 U B : "T"- INDICATOR ONLY APPLIES TO MINIMBAH BANK TONNAGE SIGNAL

D 232.4 U ON THE DOWN MAIN IN THE (UP DIRECTION). IN THE UP DIRECTION SIGNAL IS ABLE TO DISPLAY A CLEAR ASPECT IN ADVANCE OF THE UP MAIN TONNAGE SIGNAL

WM 184 U U 232.4 U

NETWORK RULE -- ANSG 604

147.6 HOME 237.520 KM

238 KM

- 1 IN 262
- 1 IN 1467
- 1 IN 1100
- 1 IN 970
- 1 IN 528
- 1 IN 353
- 1 IN 564
- 1 IN 2625
- 1 IN 472
- 1 IN 629

SECTION : WHITTINGHAM JUNCTION TO SINGLETON
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : MIDDLE HUNTER NCCN
 PHONE (02) 4902 7909
 EMERGENCY No. 4902 7968

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT

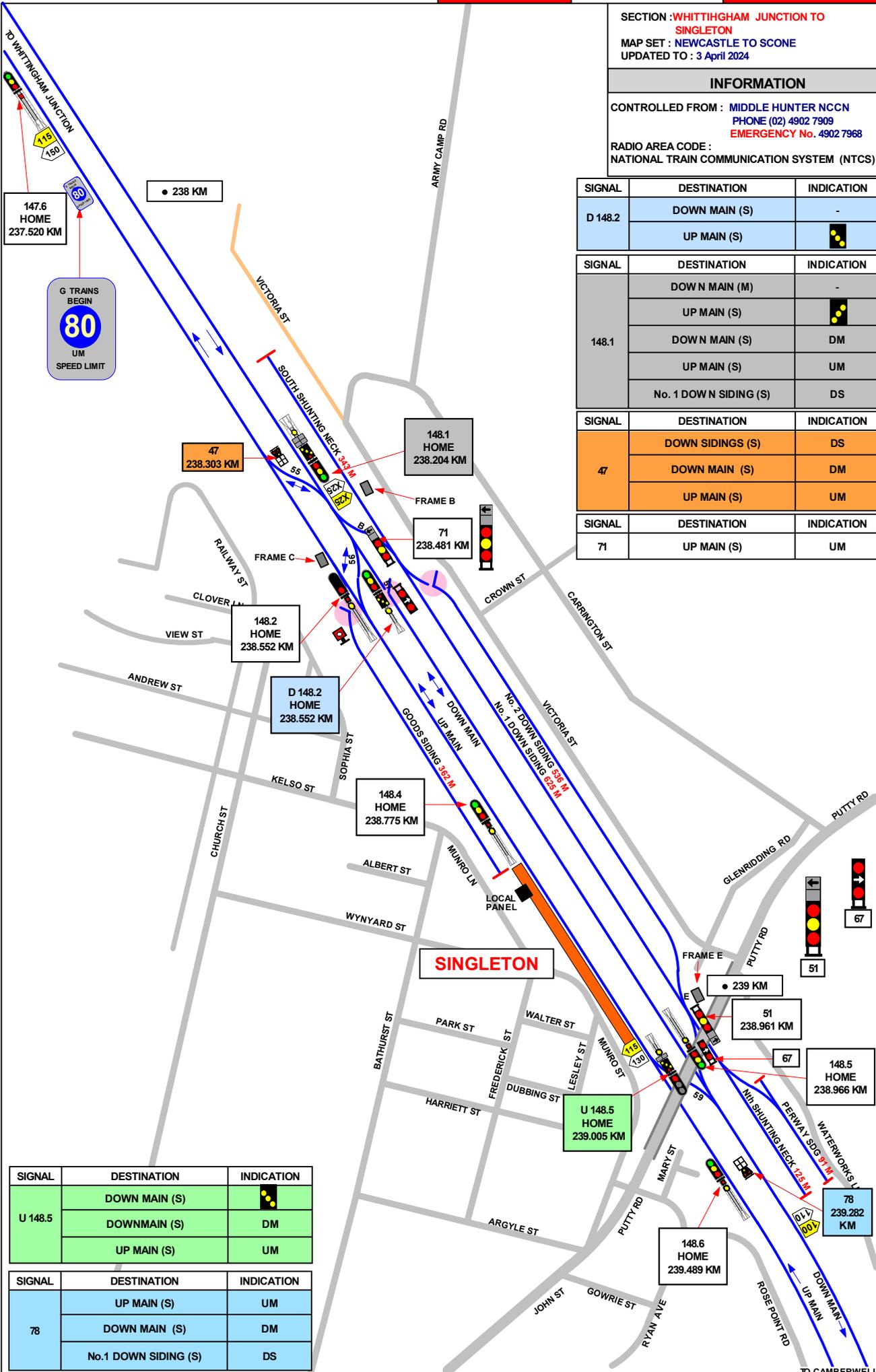
1 IN 629

SIGNAL	DESTINATION	INDICATION
D 148.2	DOWN MAIN (S)	-
	UP MAIN (S)	●●●

SIGNAL	DESTINATION	INDICATION
148.1	DOWN MAIN (M)	-
	UP MAIN (S)	●●●
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM
	No. 1 DOWN SIDING (S)	DS

SIGNAL	DESTINATION	INDICATION
47	DOWN SIDINGS (S)	DS
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
71	UP MAIN (S)	UM



LEVEL

1 IN 1900

SIGNAL	DESTINATION	INDICATION
U 148.5	DOWN MAIN (S)	●●●
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
78	UP MAIN (S)	UM
	DOWN MAIN (S)	DM
	No.1 DOWN SIDING (S)	DS

SECTION : SINGLETON TO CAMBERWELL
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970
 RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT

1 IN 66

1 IN 100

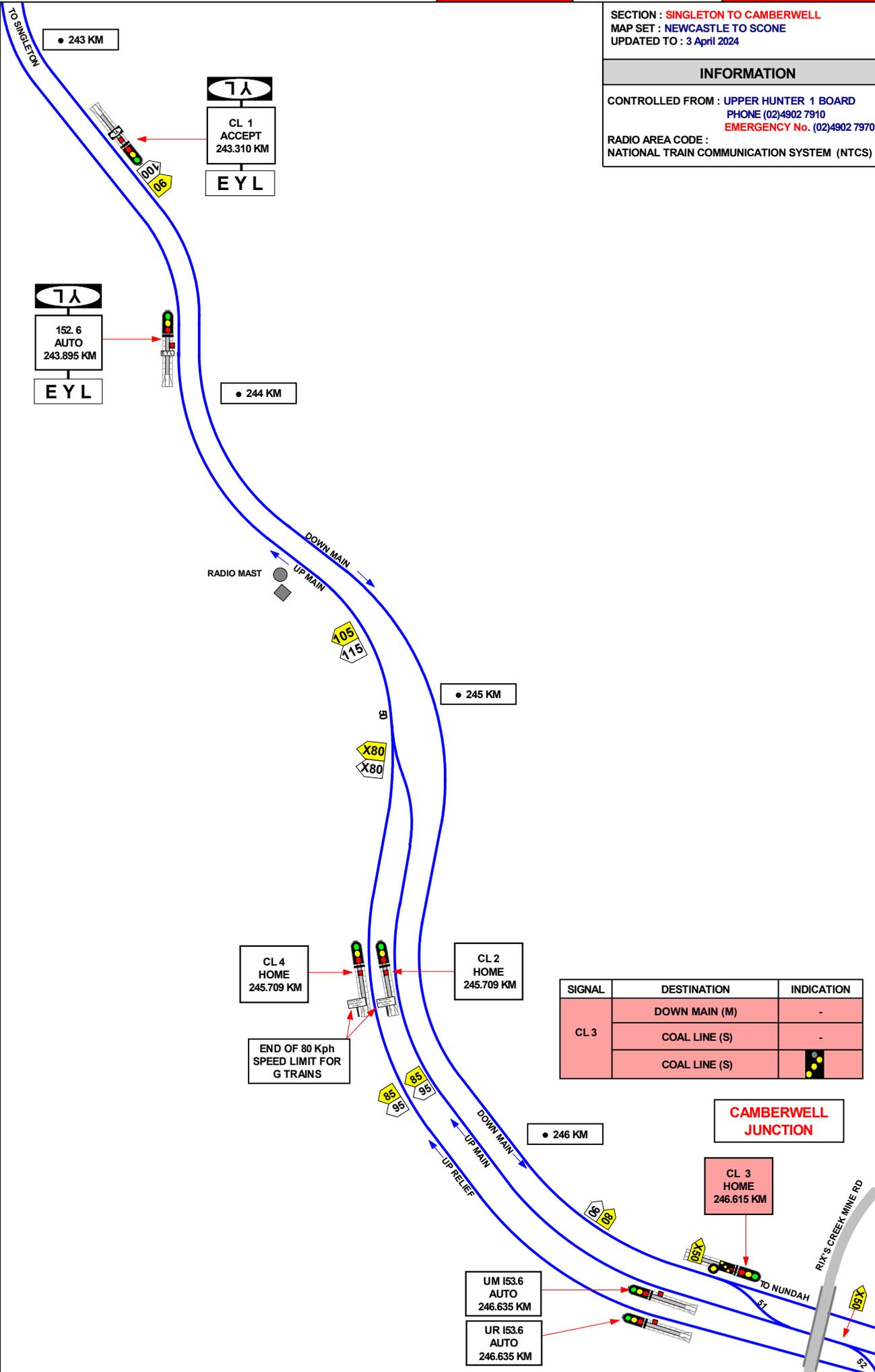
1 IN 66

1 IN 100

1 IN 66

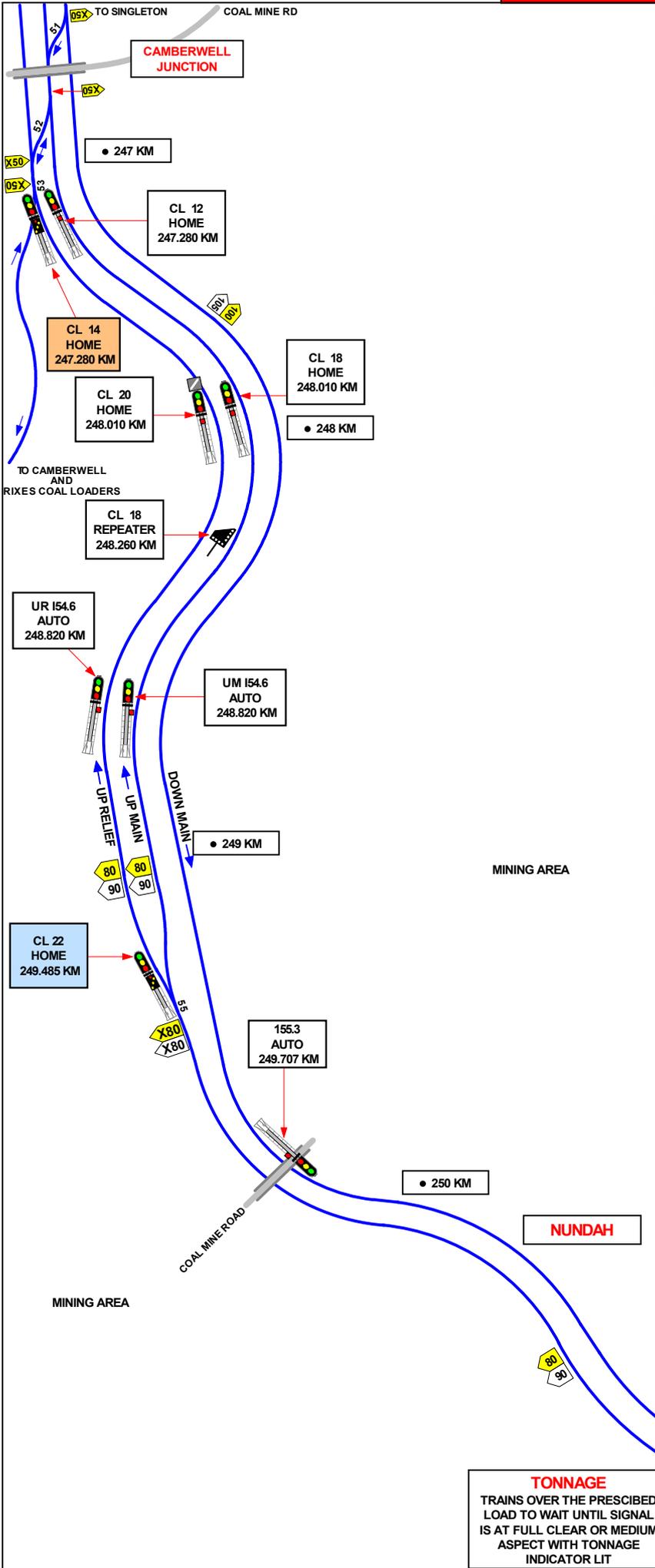
1 IN 143

1 IN 87



SIGNAL	DESTINATION	INDICATION
CL 3	DOWN MAIN (M)	-
	COAL LINE (S)	-
	COAL LINE (S)	●●●

CAMBERWELL JUNCTION



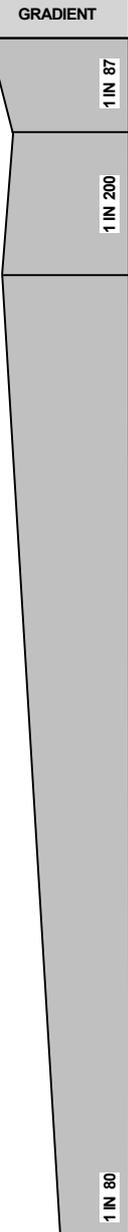
SECTION : CAMBERWELL JUNCTION TO RAVENSWORTH
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

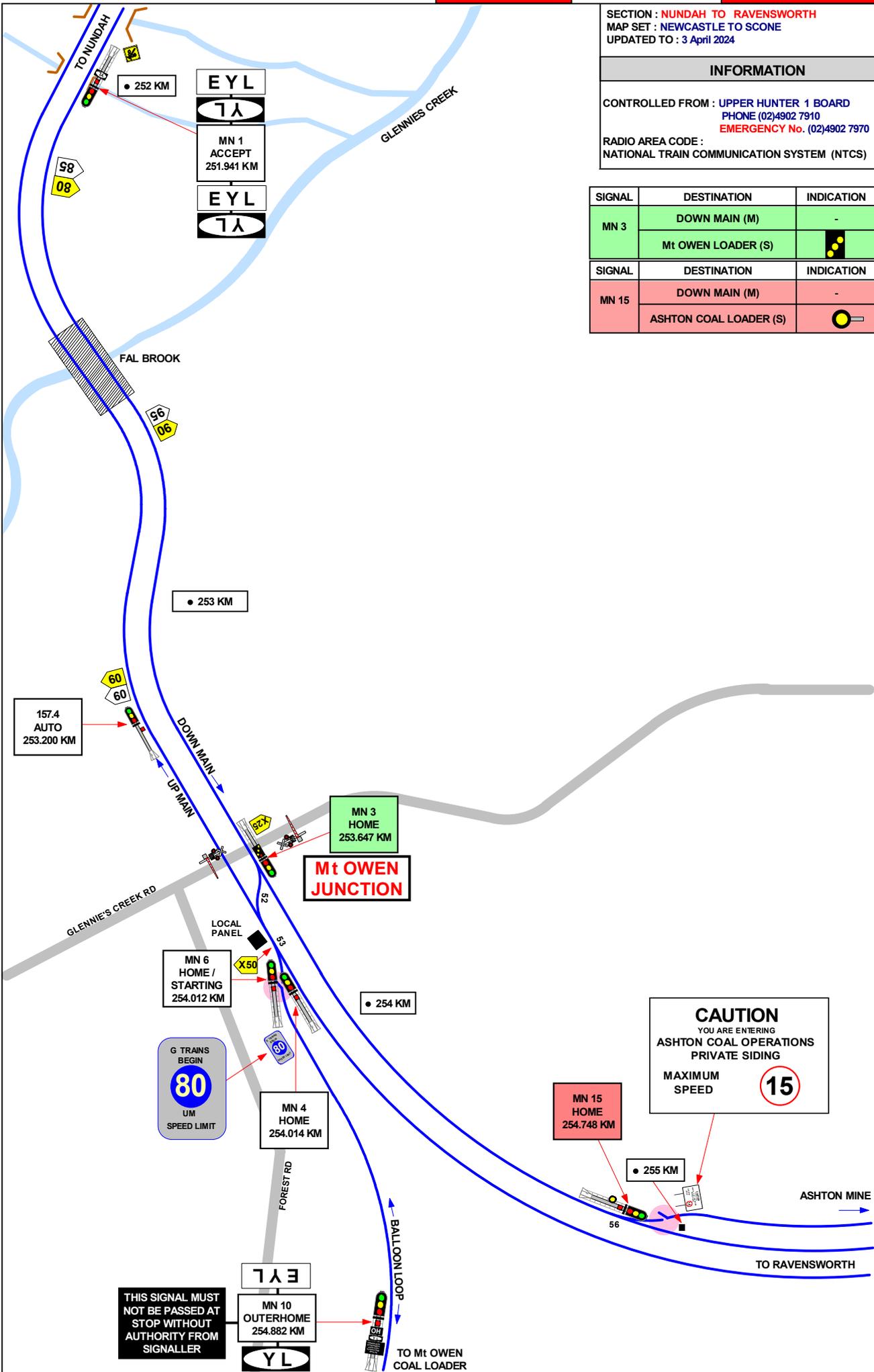
CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
CL 14	UP RELIEF (M)	--
	UP MAIN (M)	●●●●
CL 22	UP RELIEF (M)	--
	UP MAIN (M)	●●●●



TONNAGE
 TRAINS OVER THE PRESCRIBED LOAD TO WAIT UNTIL SIGNAL IS AT FULL CLEAR OR MEDIUM ASPECT WITH TONNAGE INDICATOR LIT



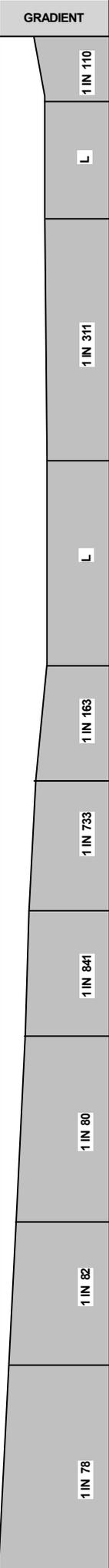
SECTION : NUNDAH TO RAVENSWORTH
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

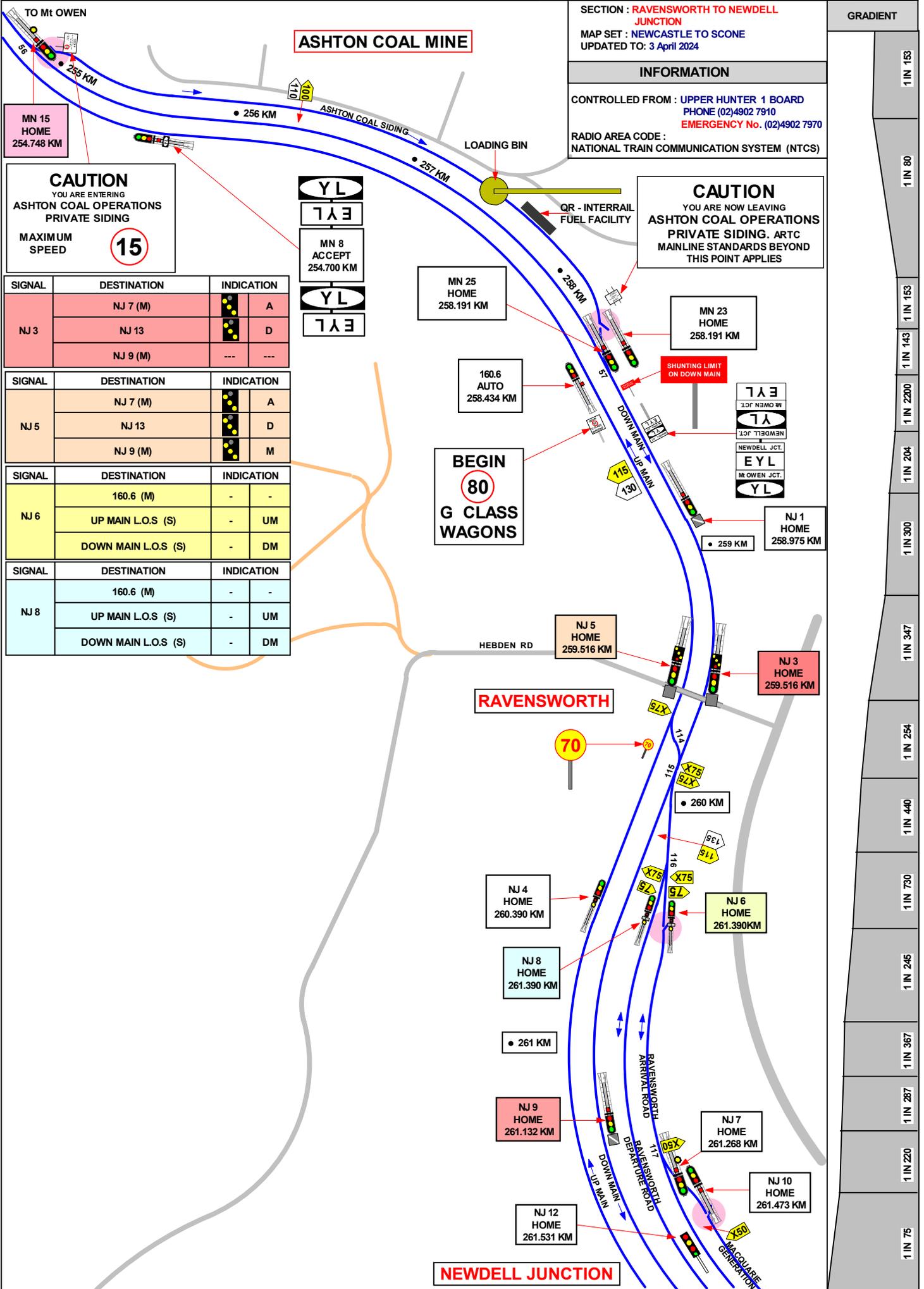
INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
MN 3	DOWN MAIN (M)	-
	Mt OWEN LOADER (S)	
MN 15	DOWN MAIN (M)	-
	ASHTON COAL LOADER (S)	





SECTION : RAVENSWORTH TO NEWDELL JUNCTION
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO: 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

CAUTION
 YOU ARE ENTERING
 ASHTON COAL OPERATIONS
 PRIVATE SIDING
 MAXIMUM SPEED **15**

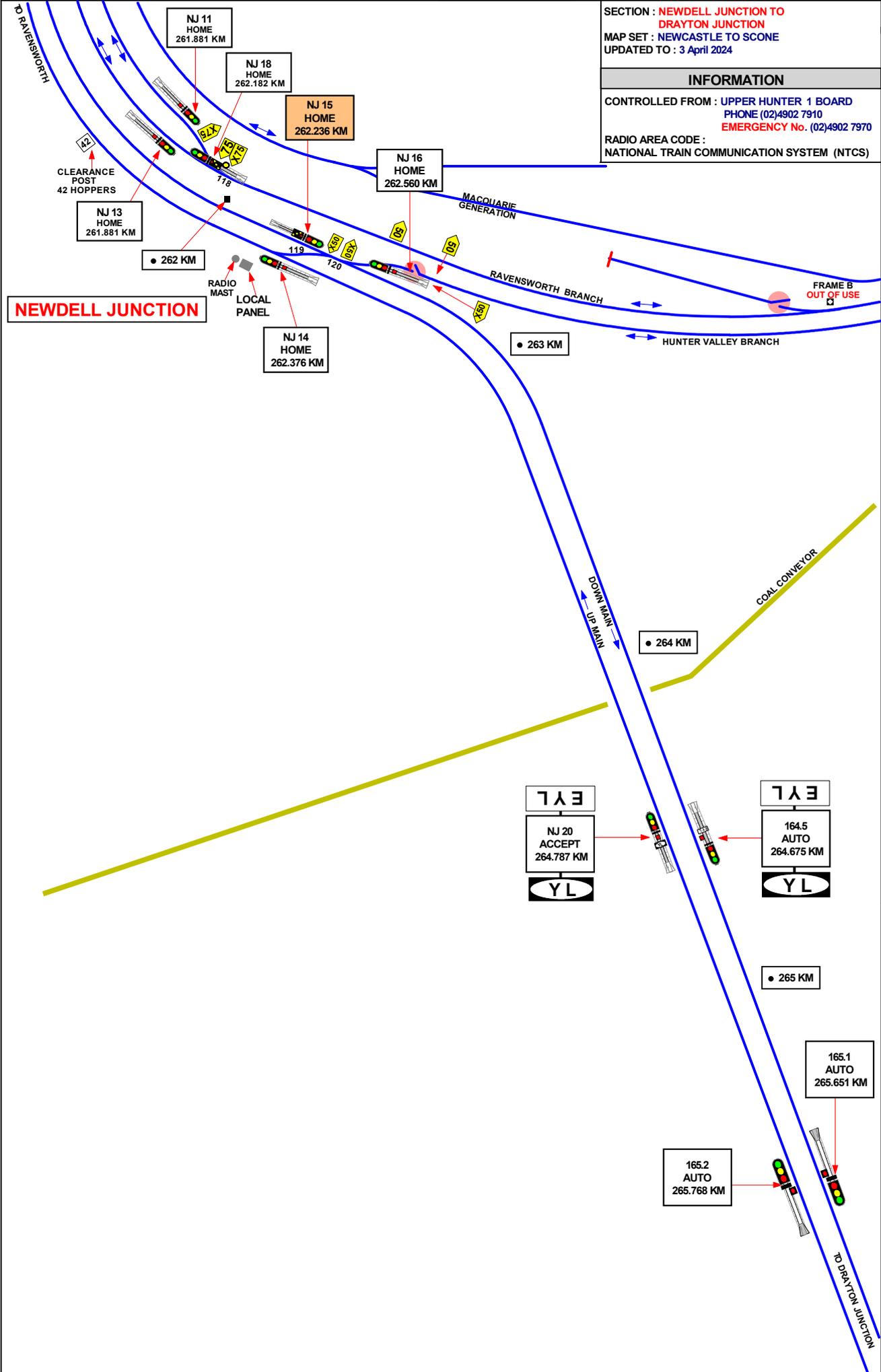
CAUTION
 YOU ARE NOW LEAVING
 ASHTON COAL OPERATIONS
 PRIVATE SIDING. ARTC
 MAINLINE STANDARDS BEYOND
 THIS POINT APPLIES

SIGNAL	DESTINATION	INDICATION
NJ 3	NJ 7 (M)	A
	NJ 13	D
	NJ 9 (M)	---

SIGNAL	DESTINATION	INDICATION
NJ 5	NJ 7 (M)	A
	NJ 13	D
	NJ 9 (M)	M

SIGNAL	DESTINATION	INDICATION
NJ 6	160.6 (M)	-
	UP MAIN L.O.S (S)	UM
	DOWN MAIN L.O.S (S)	DM

SIGNAL	DESTINATION	INDICATION
NJ 8	160.6 (M)	-
	UP MAIN L.O.S (S)	UM
	DOWN MAIN L.O.S (S)	DM



SECTION : NEWDELL JUNCTION TO DRAYTON JUNCTION
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
EMERGENCY No. (02)4902 7970

RADIO AREA CODE : NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT	
E	1 IN 1120
E	1 IN 63
E	1 IN 64
E	1 IN 73
E	1 IN 68
E	1 IN 200

SECTION : NEWDELL JUNCTION TO
 DRAYTON JUNCTION
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT

1 IN 200

1 IN 80

1 IN 80

1 IN 84

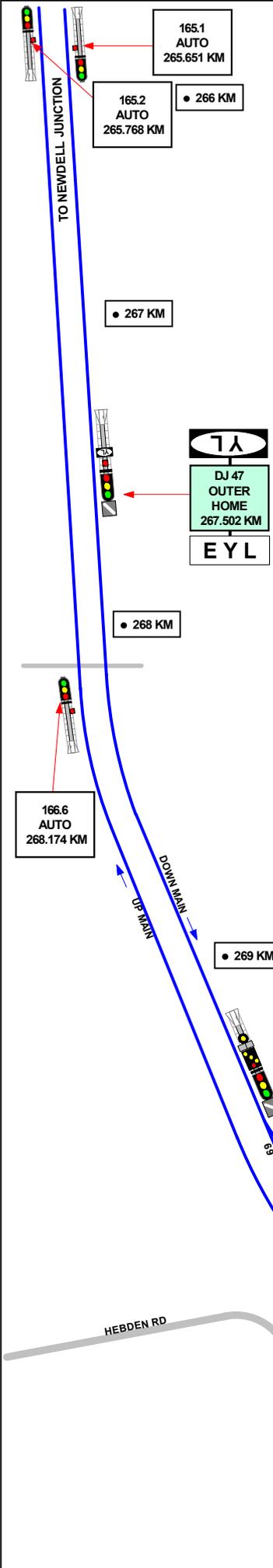
1 IN 84

SIGNAL	DESTINATION	INDICATION
DJ 49	DOWN REFUGE LOOP (M)	OR
	DOWN REFUGE LOOP (S)	DR
	DOWN MAIN (M)	---
	DOWN MAIN (S)	DM

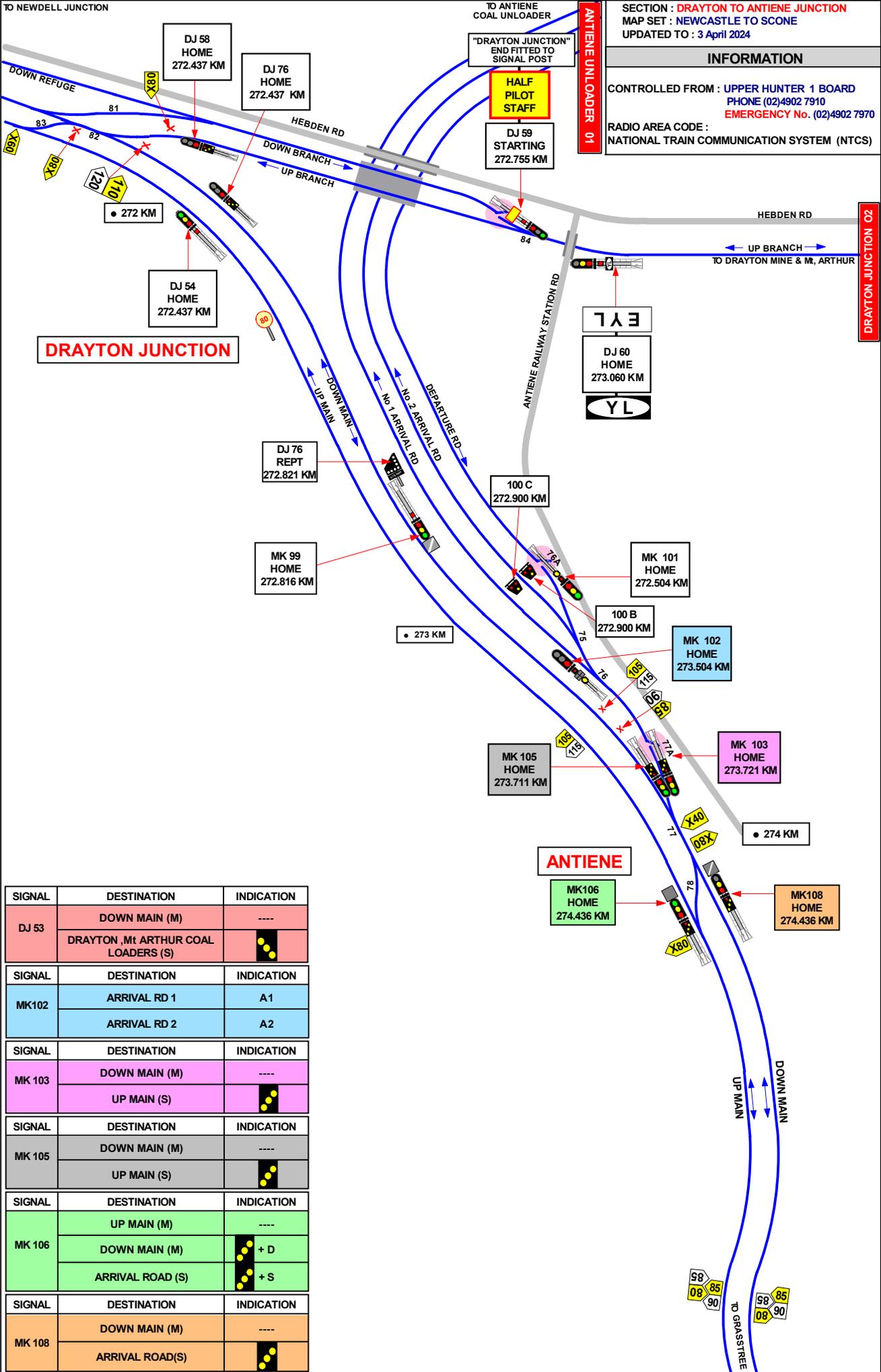
SIGNAL	DESTINATION	INDICATION
DJ 51	DOWN BRANCH (M)	---
	55 (S)	----
	DOWN MAIN (M)	OR

SIGNAL	DESTINATION	INDICATION
DJ 53	DOWN BRANCH (M)	OR
	DOWN BRANCH (S)	DB
	DOWN MAIN (M)	---
	DOWN MAIN (M)	DM

SIGNAL	DESTINATION	INDICATION
DJ 55	DOWN BRANCH (S)	DB
	DOWN MAIN (S)	DM



DRAYTON JUNCTION



SECTION : DRAYTON TO ANTIENE JUNCTION
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

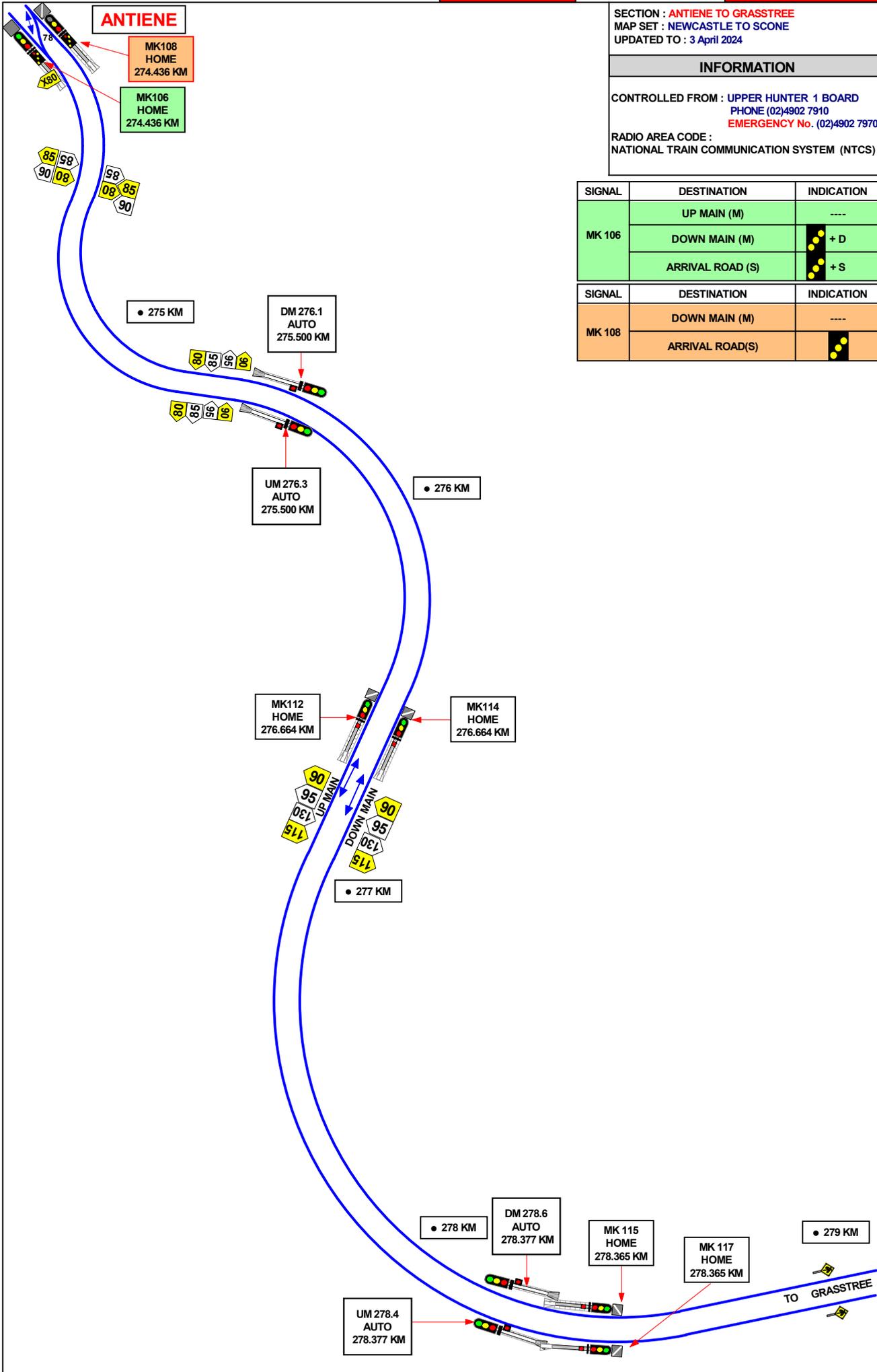
CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

DRAYTON JUNCTION

ANTIE NE

SIGNAL	DESTINATION	INDICATION
DJ 53	DOWN MAIN (M)	----
	DRAYTON ,Mt ARTHUR COAL LOADERS (S)	●●●
MK102	ARRIVAL RD 1	A1
	ARRIVAL RD 2	A2
MK 103	DOWN MAIN (M)	----
	UP MAIN (S)	●●●
MK 105	DOWN MAIN (M)	----
	UP MAIN (S)	●●●
MK 106	UP MAIN (M)	----
	DOWN MAIN (M)	●●● + D
	ARRIVAL ROAD (S)	●●● + S
MK 108	DOWN MAIN (M)	----
	ARRIVAL ROAD(S)	●●●



SECTION : ANTIENE TO GRASSTREE
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

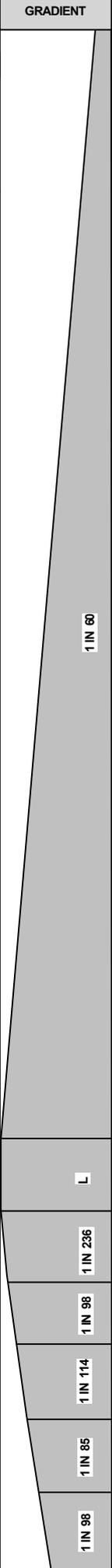
INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
MK 106	UP MAIN (M)	----
	DOWN MAIN (M)	+ D
	ARRIVAL ROAD (S)	+ S

SIGNAL	DESTINATION	INDICATION
MK 108	DOWN MAIN (M)	----
	ARRIVAL ROAD(S)	+ S



SECTION : GRASSTREE TO St HELIERS
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

GRADIENT

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970
 RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
MK 119	DOWN MAIN (M)	-
	UP MAIN (S)	●●●

SIGNAL	DESTINATION	INDICATION
MK 121	UP MAIN (M)	-
	DOWN MAIN (S)	●●●

SIGNAL	DESTINATION	INDICATION
MK 124	DOWN MAIN (M)	-
	UP MAIN (S)	●●●

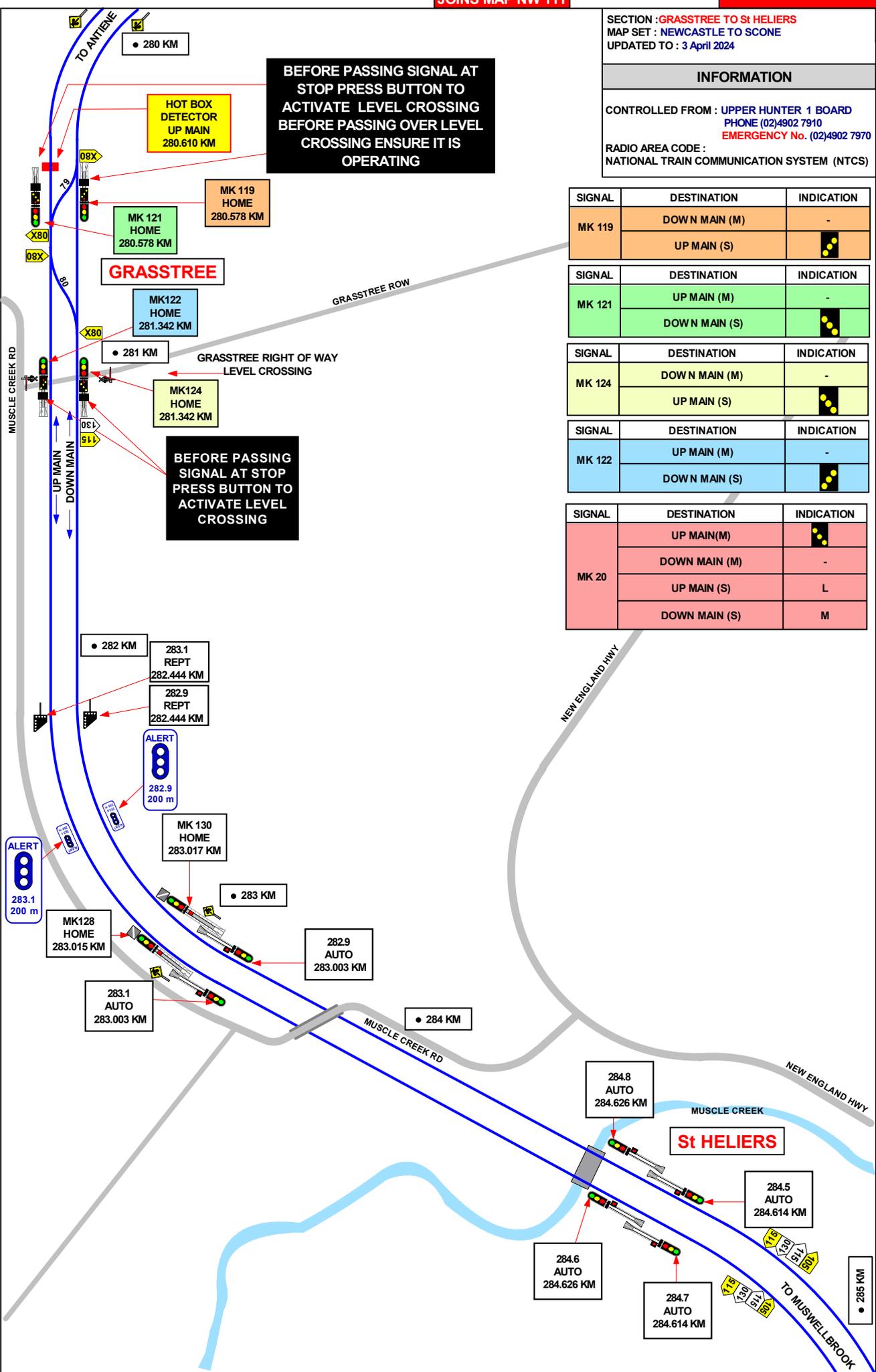
SIGNAL	DESTINATION	INDICATION
MK 122	UP MAIN (M)	-
	DOWN MAIN (S)	●●●

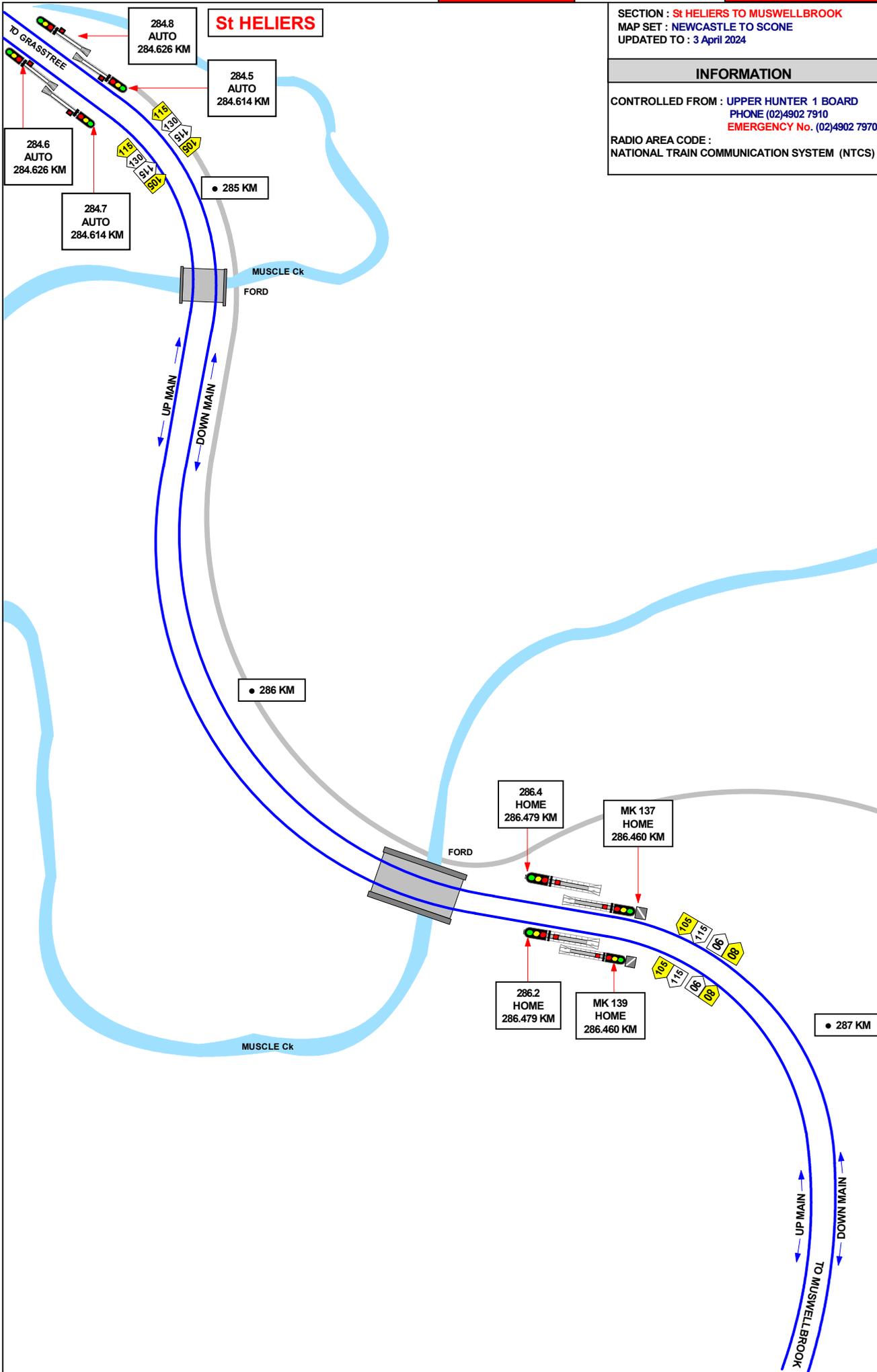
SIGNAL	DESTINATION	INDICATION
MK 20	UP MAIN (M)	●●●
	DOWN MAIN (M)	-
	UP MAIN (S)	L
	DOWN MAIN (S)	M

1 IN 110
1 IN 104
1 IN 106
1 IN 111
1 IN 123
1 IN 232
1 IN 347
1 IN 167
1 IN 244
1 IN 209
1 IN 228
1 IN 240
1 IN 197

BEFORE PASSING SIGNAL AT STOP PRESS BUTTON TO ACTIVATE LEVEL CROSSING BEFORE PASSING OVER LEVEL CROSSING ENSURE IT IS OPERATING

BEFORE PASSING SIGNAL AT STOP PRESS BUTTON TO ACTIVATE LEVEL CROSSING





SECTION : St HELIERS TO MUSWELLBROOK
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT	
1 IN 168	
1 IN 300	
1 IN 254	
1 IN 106	
1 IN 744	
1 IN 600	
1 IN 528	
1 IN 550	
1 IN 508	
1 IN 347	
1 IN 1886	
1 IN 347	
1 IN 232	
1 IN 150	
1 IN 210	
1 IN 200	
1 IN 165	
1 IN 110	
1 IN 102	

SIGNAL	DESTINATION	INDICATION
MK 148	DOWN MAIN (M)	---
	DOWN MAIN (S)	---
SIGNAL	DESTINATION	INDICATION
MK 141	SIDINGS (S)	---

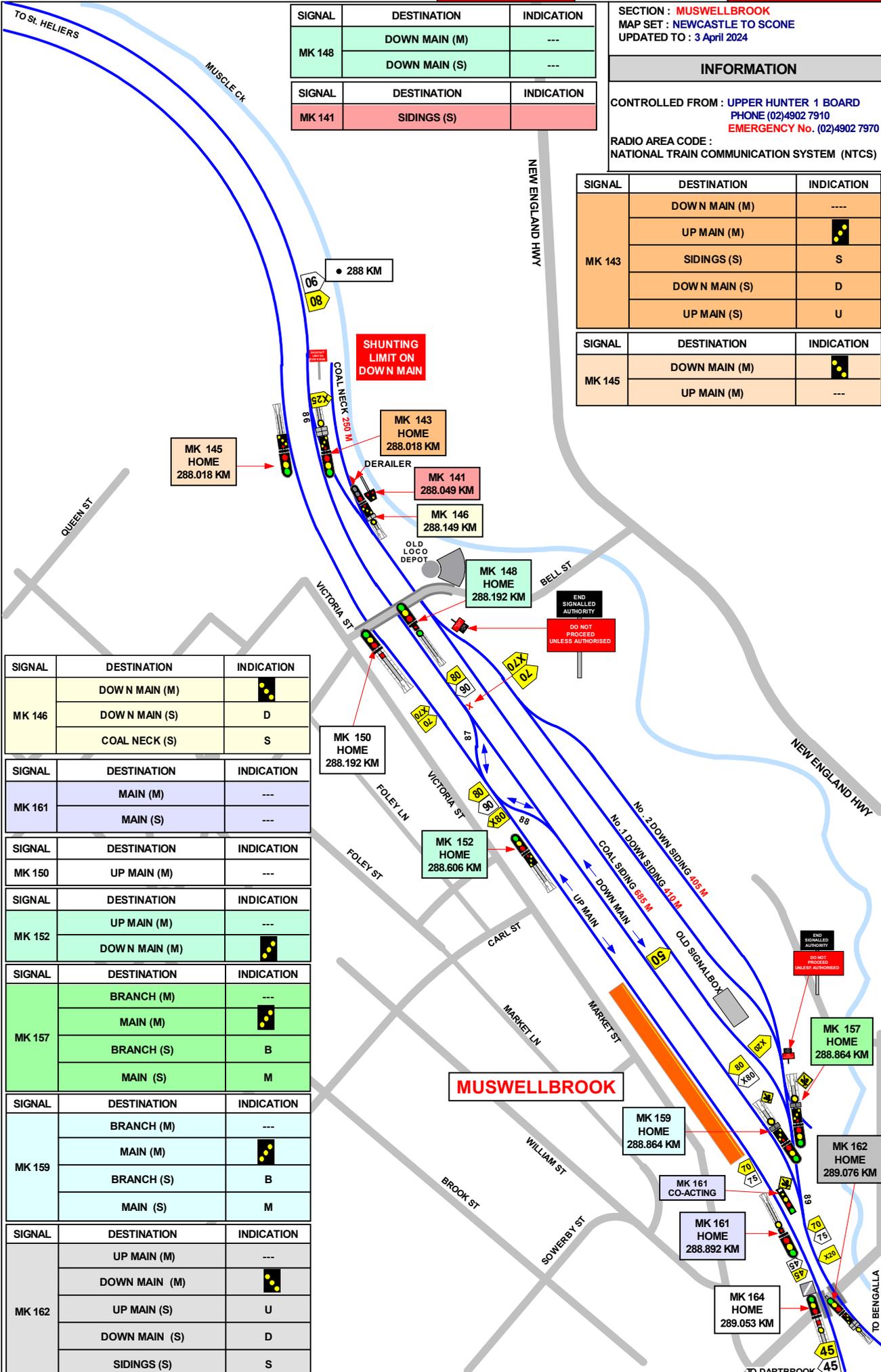
SECTION : MUSWELLBROOK
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

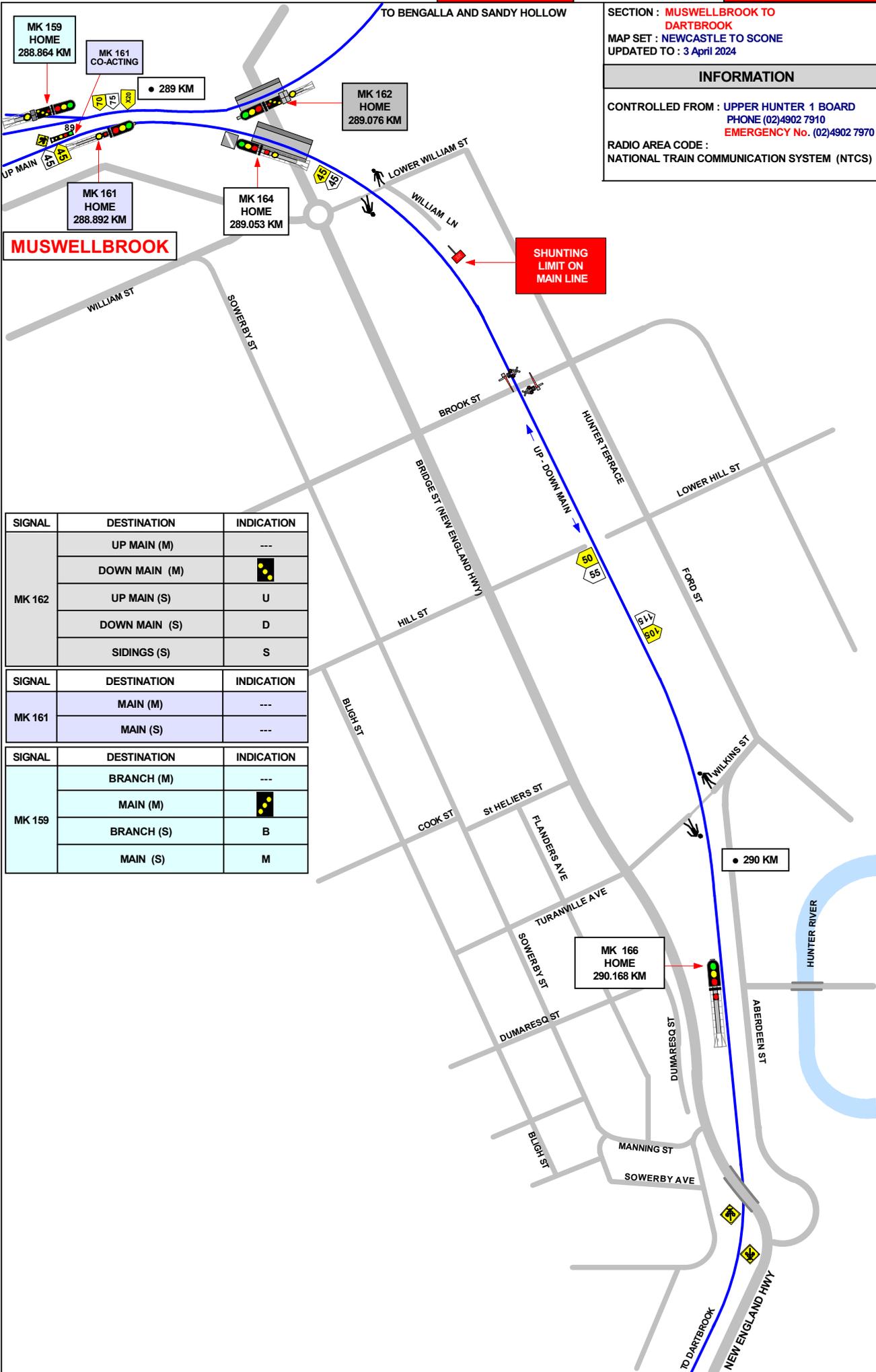
RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
MK 143	DOWN MAIN (M)	---
	UP MAIN (M)	●●●
	SIDINGS (S)	S
	DOWN MAIN (S)	D
MK 145	DOWN MAIN (M)	●●●
	UP MAIN (M)	---



SIGNAL	DESTINATION	INDICATION
MK 146	DOWN MAIN (M)	●●●
	DOWN MAIN (S)	D
	COAL NECK (S)	S
SIGNAL	DESTINATION	INDICATION
MK 161	MAIN (M)	---
	MAIN (S)	---
SIGNAL	DESTINATION	INDICATION
MK 150	UP MAIN (M)	---
SIGNAL	DESTINATION	INDICATION
MK 152	UP MAIN (M)	---
	DOWN MAIN (M)	●●●
SIGNAL	DESTINATION	INDICATION
MK 157	BRANCH (M)	---
	MAIN (M)	●●●
	BRANCH (S)	B
	MAIN (S)	M
SIGNAL	DESTINATION	INDICATION
MK 159	BRANCH (M)	---
	MAIN (M)	●●●
	BRANCH (S)	B
	MAIN (S)	M
SIGNAL	DESTINATION	INDICATION
MK 162	UP MAIN (M)	---
	DOWN MAIN (M)	●●●
	UP MAIN (S)	U
	DOWN MAIN (S)	D
	SIDINGS (S)	S



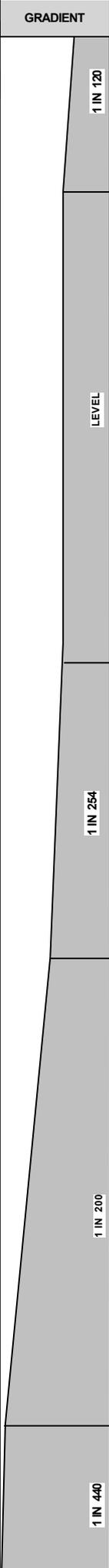


SECTION : MUSWELLBROOK TO DARTBROOK
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02)4902 7970

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)



SIGNAL	DESTINATION	INDICATION
MK 162	UP MAIN (M)	---
	DOWN MAIN (M)	●●
	UP MAIN (S)	U
	DOWN MAIN (S)	D
	SIDINGS (S)	S

SIGNAL	DESTINATION	INDICATION
MK 161	MAIN (M)	---
	MAIN (S)	---

SIGNAL	DESTINATION	INDICATION
MK 159	BRANCH (M)	---
	MAIN (M)	●●
	BRANCH (S)	B
	MAIN (S)	M

SECTION : MUSWELLBROOK TO KOOLBURY
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

GRADIENT

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
PHONE (02)4902 7910
EMERGENCY No. (02)4902 7970

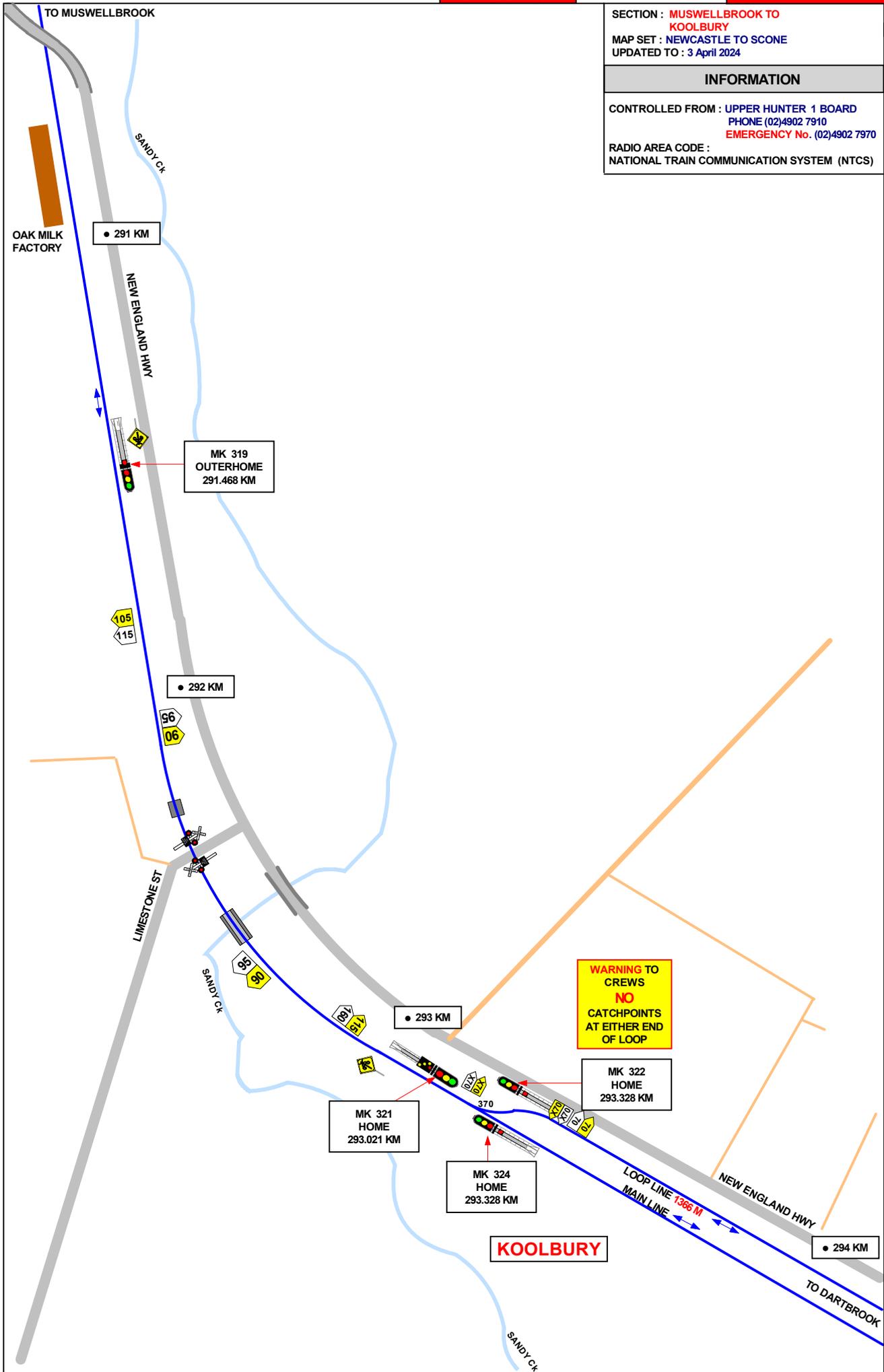
RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

1 IN 440

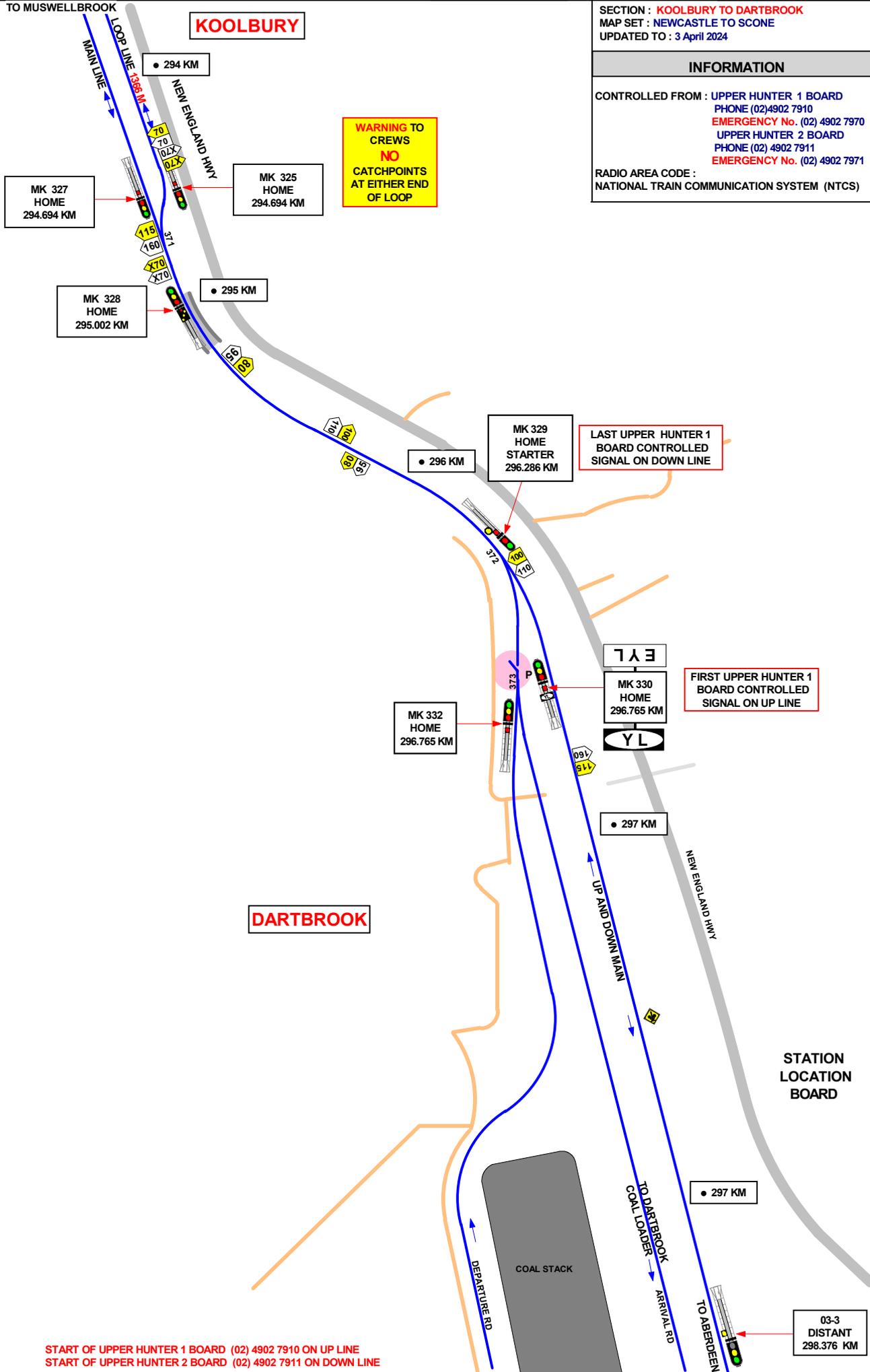
LEVEL

1 IN 132

1 IN 440



GRADIENT



SECTION : KOOLBURY TO DARTBROOK
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
 PHONE (02)4902 7910
 EMERGENCY No. (02) 4902 7970
 UPPER HUNTER 2 BOARD
 PHONE (02) 4902 7911
 EMERGENCY No. (02) 4902 7971

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

WARNING TO CREWS
NO
CATCHPOINTS
AT EITHER END
OF LOOP

MK 327
HOME
294.694 KM

MK 325
HOME
294.694 KM

MK 328
HOME
295.002 KM

MK 329
HOME
STARTER
296.286 KM

LAST UPPER HUNTER 1
BOARD CONTROLLED
SIGNAL ON DOWN LINE

MK 332
HOME
296.765 KM

MK 330
HOME
296.765 KM

FIRST UPPER HUNTER 1
BOARD CONTROLLED
SIGNAL ON UP LINE

DARTBROOK

STATION
LOCATION
BOARD

START OF UPPER HUNTER 1 BOARD (02) 4902 7910 ON UP LINE
 START OF UPPER HUNTER 2 BOARD (02) 4902 7911 ON DOWN LINE

GRADIENT

1 IN 80

E

1 IN 150

1 IN 66

1 IN 100

1 IN 825

1 IN 264

1 IN 198

1 IN 80

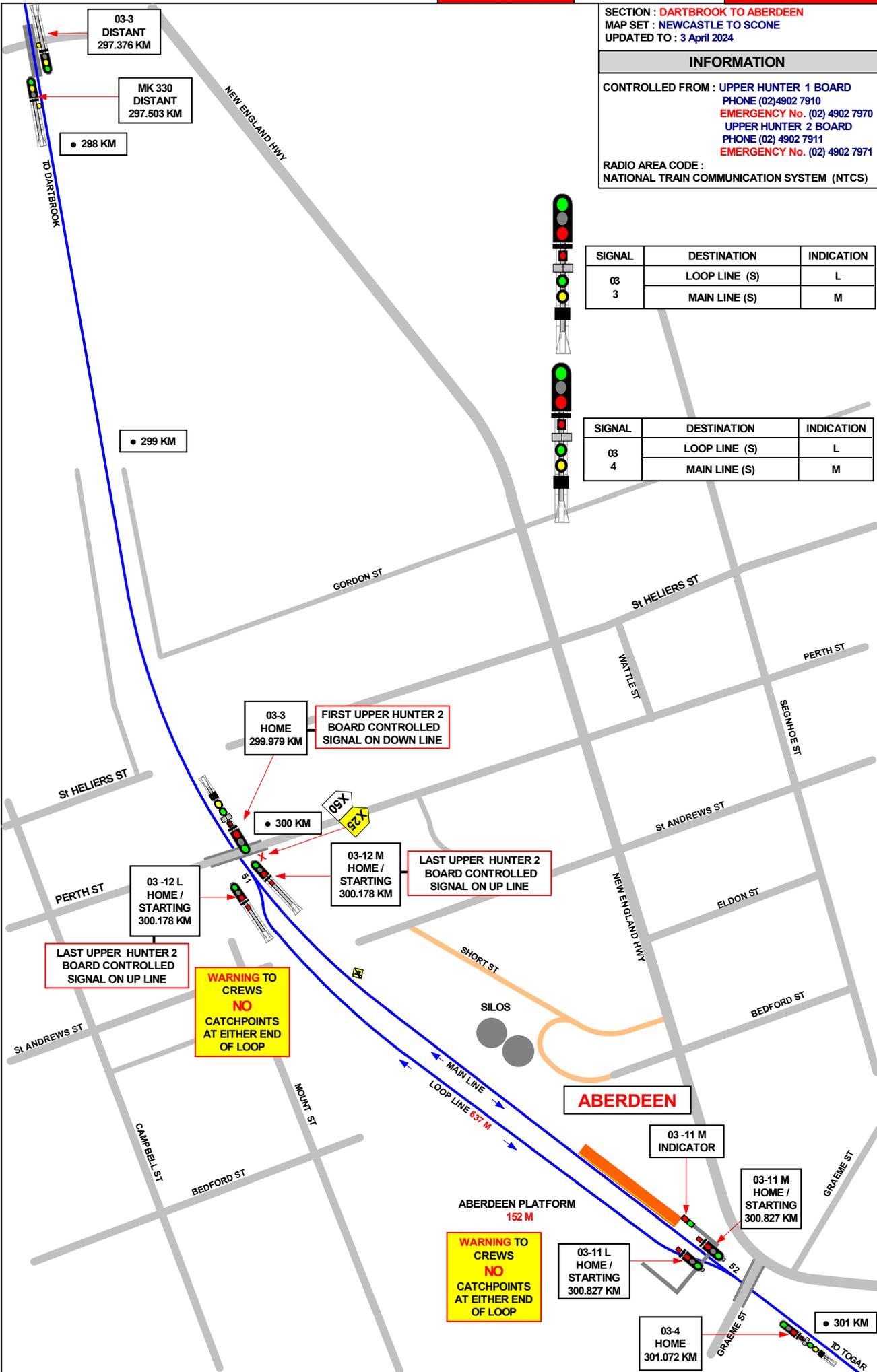
SECTION : DARTBROOK TO ABERDEEN
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 1 BOARD
PHONE (02)4902 7910
EMERGENCY No. (02) 4902 7970
UPPER HUNTER 2 BOARD
PHONE (02) 4902 7911
EMERGENCY No. (02) 4902 7971
RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
03	LOOP LINE (S)	L
3	MAIN LINE (S)	M

SIGNAL	DESTINATION	INDICATION
03	LOOP LINE (S)	L
4	MAIN LINE (S)	M



SECTION : DARTBROOK TO ABERDEEN
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

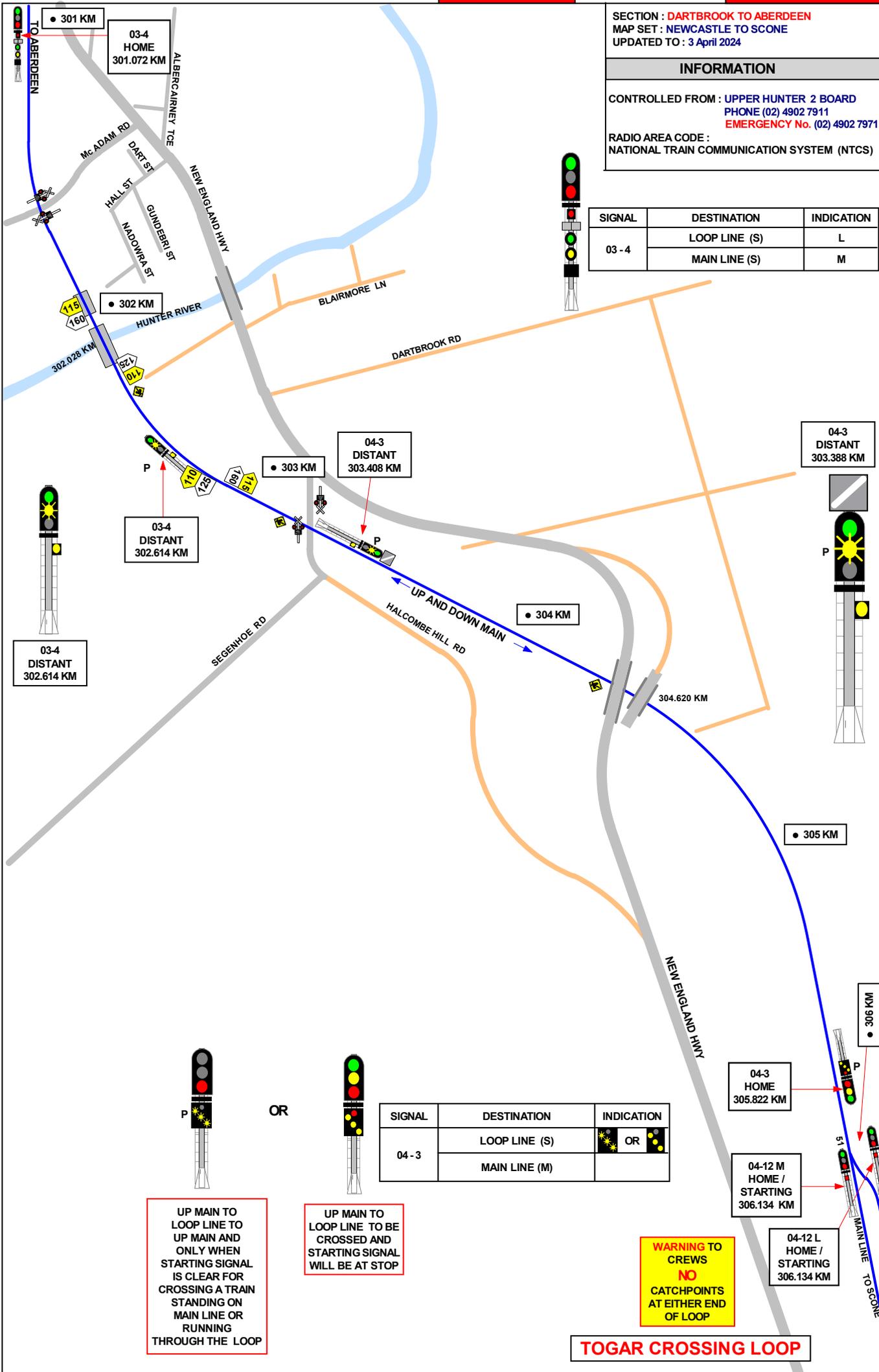
INFORMATION

CONTROLLED FROM : UPPER HUNTER 2 BOARD
PHONE (02) 4902 7911
EMERGENCY No. (02) 4902 7971
RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
03 - 4	LOOP LINE (S)	L
	MAIN LINE (S)	M

GRADIENT

- 1 IN 80
- L
- 1 IN 440
- L
- 1 IN 100
- 1 IN 60
- 1 IN 100
- L
- 1 IN 165
- 1 IN 580



03-4 DISTANT 302.614 KM

03-4 DISTANT 302.614 KM

04-3 DISTANT 303.408 KM

04-3 DISTANT 303.388 KM

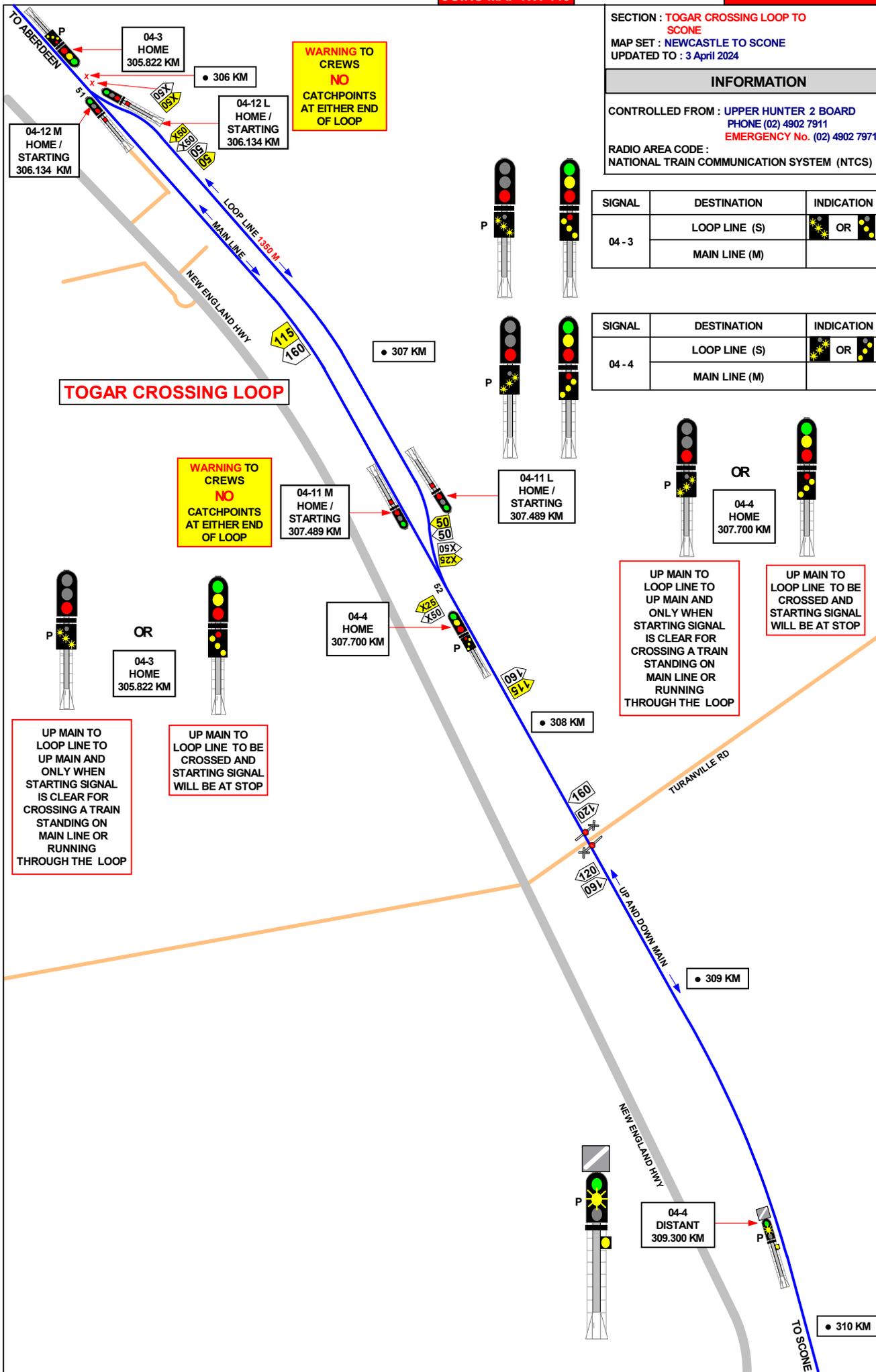
SIGNAL	DESTINATION	INDICATION
04 - 3	LOOP LINE (S)	OR
	MAIN LINE (M)	

UP MAIN TO LOOP LINE TO UP MAIN AND ONLY WHEN STARTING SIGNAL IS CLEAR FOR CROSSING A TRAIN STANDING ON MAIN LINE OR RUNNING THROUGH THE LOOP

UP MAIN TO LOOP LINE TO BE CROSSED AND STARTING SIGNAL WILL BE AT STOP

WARNING TO CREWS NO CATCHPOINTS AT EITHER END OF LOOP

TOGAR CROSSING LOOP



SECTION : **TOGAR CROSSING LOOP TO SCONE**
 MAP SET : **NEWCASTLE TO SCONE**
 UPDATED TO : **3 April 2024**

INFORMATION

CONTROLLED FROM : **UPPER HUNTER 2 BOARD**
 PHONE (02) 4902 7911
 EMERGENCY No. (02) 4902 7971

RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
04 - 3	LOOP LINE (S)	OR
	MAIN LINE (M)	

SIGNAL	DESTINATION	INDICATION
04 - 4	LOOP LINE (S)	OR
	MAIN LINE (M)	

UP MAIN TO LOOP LINE TO UP MAIN AND ONLY WHEN STARTING SIGNAL IS CLEAR FOR CROSSING A TRAIN STANDING ON MAIN LINE OR RUNNING THROUGH THE LOOP

UP MAIN TO LOOP LINE TO BE CROSSED AND STARTING SIGNAL WILL BE AT STOP

UP MAIN TO LOOP LINE TO UP MAIN AND ONLY WHEN STARTING SIGNAL IS CLEAR FOR CROSSING A TRAIN STANDING ON MAIN LINE OR RUNNING THROUGH THE LOOP

UP MAIN TO LOOP LINE TO BE CROSSED AND STARTING SIGNAL WILL BE AT STOP

GRADIENT

1 IN 500

1 IN 200

L

1 IN 600

1 IN 550

L

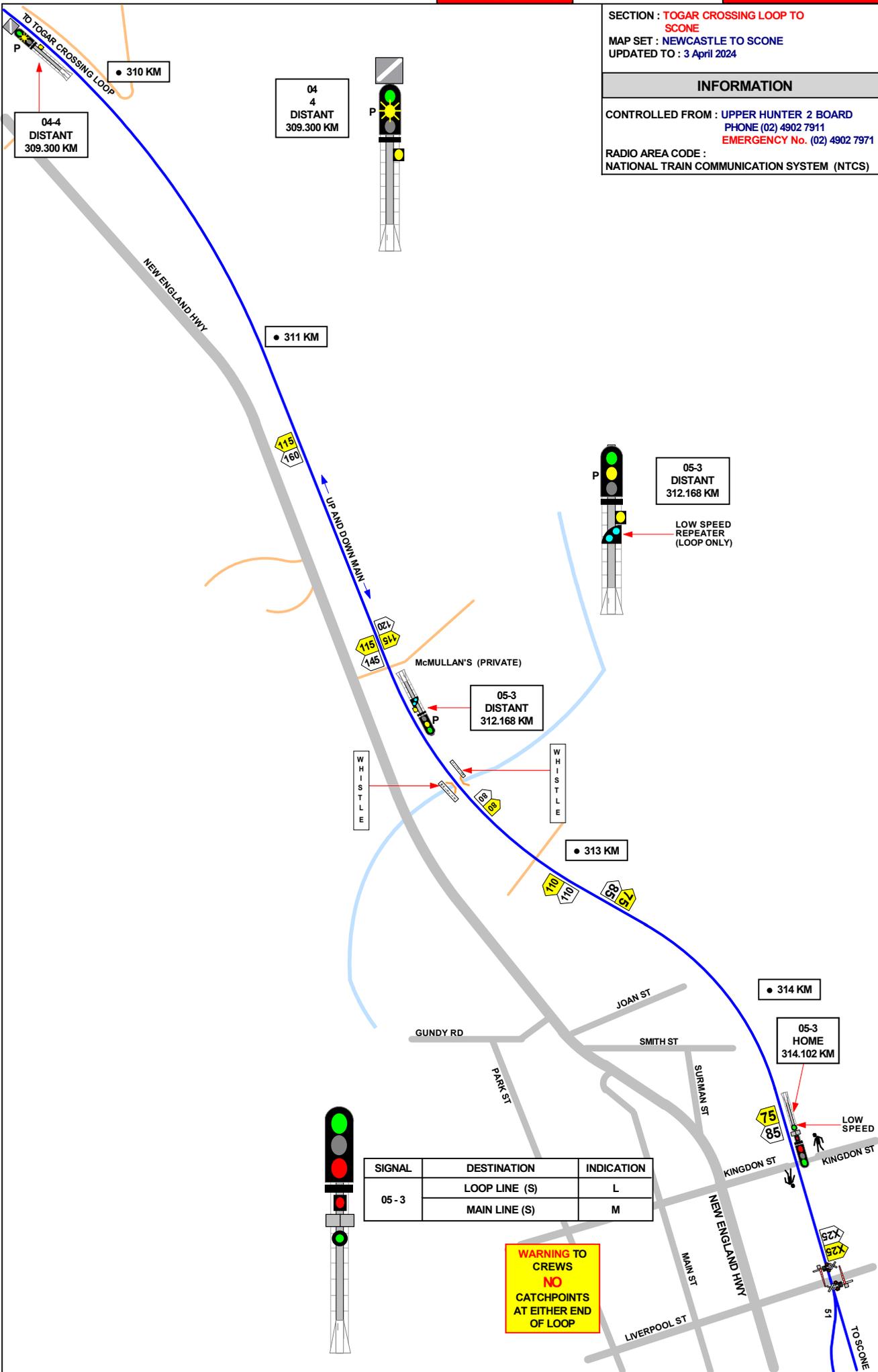
SECTION : TOGAR CROSSING LOOP TO SCONE
 Scone
 MAP SET : NEWCASTLE TO SCONE
 UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 2 BOARD
 PHONE (02) 4902 7911
 EMERGENCY No. (02) 4902 7971

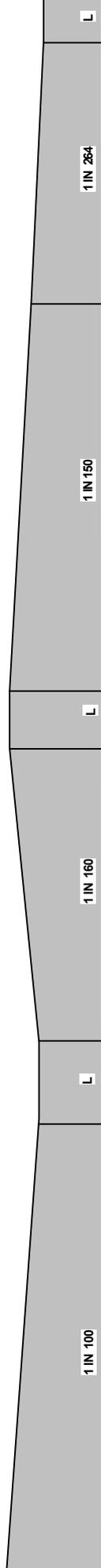
RADIO AREA CODE :
 NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

GRADIENT



SIGNAL	DESTINATION	INDICATION
05-3	LOOP LINE (S)	L
	MAIN LINE (S)	M

WARNING TO CREWS
NO CATCHPOINTS
AT EITHER END
OF LOOP



GRADIENT

SECTION : SCONE
MAP SET : NEWCASTLE TO SCONE
UPDATED TO : 3 April 2024

INFORMATION

CONTROLLED FROM : UPPER HUNTER 2 BOARD
PHONE (02) 4902 7911
EMERGENCY No. (02) 4902 7971

RADIO AREA CODE :
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

SIGNAL	DESTINATION	INDICATION
05 - 3	LOOP LINE (S)	L
	MAIN LINE (S)	M

SIGNAL	DESTINATION	INDICATION
05 - 4	LOOP LINE (S)	L
	MAIN LINE (S)	M

WARNING TO CREWS
NO
CATCHPOINTS
AT EITHER END
OF LOOP

WARNING TO CREWS
NO
CATCHPOINTS
AT EITHER END
OF LOOP

SCONE
PLATFORM
137 M

1 IN 100

1 IN 146

