

DRIVERS ROUTE KNOWLEDGE DIAGRAMS

ILLAWARRA LINE

CENTRAL
REDFERN
ERSKINEVILLE
ST PETERS
SYDENHAM
TEMPE
WOLLI CREEK
ARNCLIFFE
BANKSIA
ROCKDALE
KOGARAH
CARLTON
ALLAWAH
HURSTVILLE
PENSHURST
MORTDALE
OATLEY
COMO
JANNALI
SUTHERLAND
LOFTUS
ENGADINE
HEATHCOTE
WATERFALL

Effective Date: July 2024

Version: 5.61

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: TRIM Record No.D2015/579

SECTION : CENTRAL TO REDFERN
MAP SET : CENTRAL TO NOWRA
PAGE : 1 OF 4
UPDATED TO : 29 May 2024

CENTRAL

DRIVERS OF LOCOMOTIVE-HAULED SERVICES AND NON-ELECTRIC POWERED VEHICLES PROCEEDING TO THE AIRPORT LINE SHALL NOT PASS THIS POINT UNTIL AUTHORISED BY THE SIGNALLER

MULTI SPAD SIGNAL
SY 391 IL

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

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

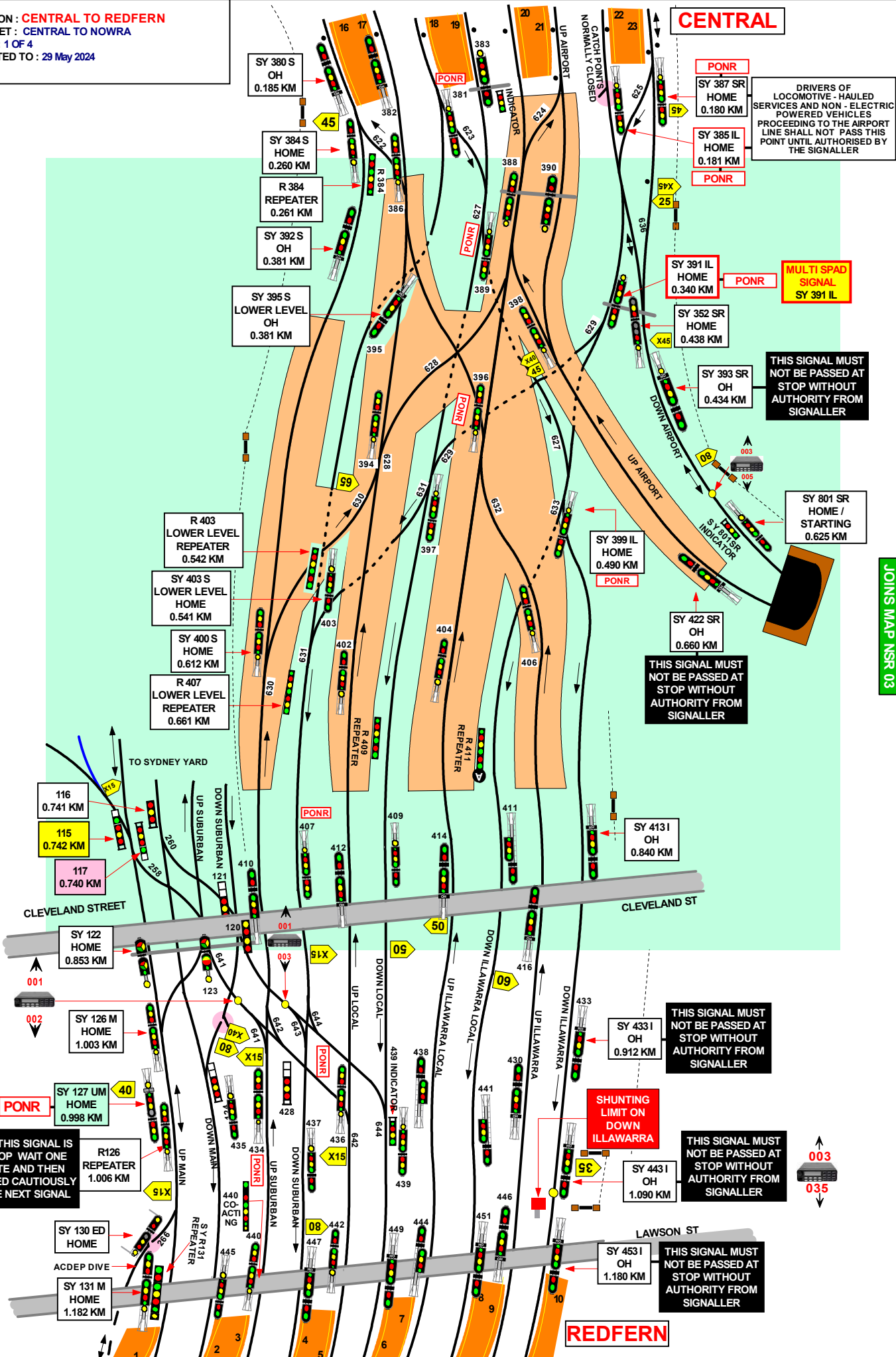
THIS SIGNAL MUST NOT BE PASSED AT STOP WITHOUT AUTHORITY FROM SIGNALLER

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

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



JOINS MAP NSR 03



WHEN THIS SIGNAL IS AT STOP WAIT ONE MINUTE AND THEN PROCEED CAUTIOUSLY TO THE NEXT SIGNAL

REDFERN

**PONR
POINTS OF NO RETURN**

SIGNAL No.	LOCATION	DESTINATION
SY 387 SR	COUNTRY END OF NUMBER 23 PLATFORM	ALL DOWN LINES INCLUDING THE DOWN AIRPORT LINE
SY 385 IL	COUNTRY END OF NUMBER 22 PLATFORM	DOWN AIRPORT LINE
SY 391 IL	APPROX 160 METRES COUNTRY SIDE OF 22 PLATFORM	ALL DOWN LINES EXCEPT THE DOWN AIRPORT LINE
SY 381 S	DOWN SUBURBAN COUNTRY END OF NUMBER 18 PLATFORM	EVELEIGH PRESENTATION CENTRE
SY 389 L	143 METRES BEYOND THE COUNTRY END OF 19 PLATFORM AT 0.325 KM	EVELEIGH PRESENTATION CENTRE
SY 407 S	DOWN SUBURBAN LINE PRIOR TO THE CLEVELAND STREET OVERBRIDGE AT 0.764 KM	ILLAWARRA LINES
SY 436 L	ON THE UP LOCAL LINE BETWEEN REDFERN AND THE CLEVELAND STREET OVERBRIDGE AT 1.040 KM	SYDNEY YARD
SY 434 S	ON THE UP SUBURBAN LINE BETWEEN REDFERN AND THE CLEVELAND STREET OVERBRIDGE AT 1.020 KM	SYDNEY YARD
SY 396 IL	ON THE TOP OF THE UP ILLAWARRA LOCAL FLYOVER AT 0.480 KM	NORTH SHORE LINES
SY 399 IL	ON THE DOWN ILLAWARRA LOCAL LINE BELOW THE FLYOVERS AT 0.490 KM	EVELEIGH PRESENTATION CENTRE
SY 127	DOWN FACING SIGNAL ON THE UP MAIN LINE AT 0.998 KM	EVELEIGH ENGINE DIVE OR REDFERN PLATFORM 1

SECTION : **CENTRAL TO REDFERN**
 MAP SET : **CENTRAL TO WATERFALL**
 PAGE : 2 OF 4
 UPDATED TO : 21 June 2023

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **002 (SYDNEY EAST UP)**
003 (SYDNEY EAST DOWN)
035 (SYDNEY ILLAWARRA JN)

TWO WAY RUNNING BETWEEN ALL PLATFORMS IN SYDNEY YARD AND EVELEIGH YARD VIA ENGINE DIVE



SIGNAL SY 389 L



SIGNAL SY 407 S



SIGNAL SY 436 L

SY 380 S OH 0.185 KM	SY 392 S OH 0.381 KM	SY 384 S HOME 0.260 KM	SY 382 L OH 0.184 KM	SY R384 REPEATER 0.261 KM	SY 386 L HOME 0.300 KML	SY 381 S HOME 0.182 KM	SY 383 L HOME 0.182 KM	SY 383 IND INDICATOR 0.182 KM	SY 389 L HOME 0.325 KM	SY 388 IL HOME 0.281 KM	SY 390 I HOME 0.280 KM	SY 385 IL HOME 0.181 KM	SY 387 I HOME 0.180 KM	SY 391 IL HOME 0.270 KM
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SY 395 S OH 0.381 KM	SY 394 L HOME 0.470 KM	SY 397 L HOME 0.491 KM	SY 396 IL HOME 0.480 KM	SY 398 NS HOME 0.425 KM	SY 399 IL HOME 0.490 KM	SR 0.7 AUTO/CONT STARTING 0.625 KM	SR 0.7 IND INDICATOR 0.625 KM
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SY 400 S HOME 0.612 KM	SY R407 REPEATER 0.661 KM	SY R403 REPEATER 0.542 KM	SY 403 S HOME 0.541 KM	SY 402 L HOME 0.660 KM	SY R409 REPEATER 0.763 KM	SY 404 IL HOME 0.650 KM	SY R411 REPEATER 0.762 KM	SY 406 I HOME 0.611 KM	SY 422 NS ACCEPT 0.660 KM
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SY 115 SHUNT 0.742 KM	SY 117 SHUNT 0.740 KM	SY 116 SHUNT 0.741 KM	SY 122 HOME 0.840 KM	SY 123 HOME 0.832 KM	SY 121 SHUNT 0.831 KM	SY 120 HOME 0.830 KM	SY 410 S OH 0.814 KM	SY 407 S HOME 0.764 KM	SY 412 L OH 0.813 KM	SY 409 L HOME 0.763 KM	SY 414 IL OH 0.812 KM	SY 411 IL AUTO 0.762 KM	SY 416 I OH 0.811 KM	SY 413 I OH 0.840 KM
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SY 127 HOME 0.990 KM	SY 126 M HOME 1.004 KM	R126 1.066 KM	SY 124 SHUNT 1.001 KM	SY 435 M HOME 0.997 KM	SY 434 S HOME 1.001 KM	SY 428 SHUNT 1.004 KM	SY 437 S HOME 1.001 KM	SY 436 L HOME 1.040 KM	SY 439 L HOME 1.014 KM	SY 438 IL AUTO 1.042 KM	SY 441 IL AUTO 1.010 KM	SY 430 I OH 1.043 KM	SY 433 I OH 0.912 KM
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SY 130 ED HOME 0.?? KM	SY 131 M HOME 1.214 KM	SY R131 REPEATER 1.215 KM	SY 445 M HOME 1.184 KM	SY 440 S HOME 1.213 KM	SY 447 S OH 1.183 KM	SY 442 L HOME 1.212 KM	SY 449 L OH 1.182 KM	SY 444 IL AUTO 1.211 KM	SY 451 IL OH 1.181 KM	SY 446 I OH 1.210 KM	SY 443 I OH 1.091 KM	SY 453 I OH 1.180 KM
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SIGNAL	DESTINATION	INDICATION
SY 436 L	UP MAIN	M
	UP SUBURBAN	Y

SIGNAL	DESTINATION	INDICATION
SY 428	DOWN MAIN	DM
	DOWN SUBURBAN (S)	DS

SIGNAL	DESTINATION	INDICATION
SY 124	DOWN MAIN (S)	DM
	DOWN SUBURBAN (S)	DS

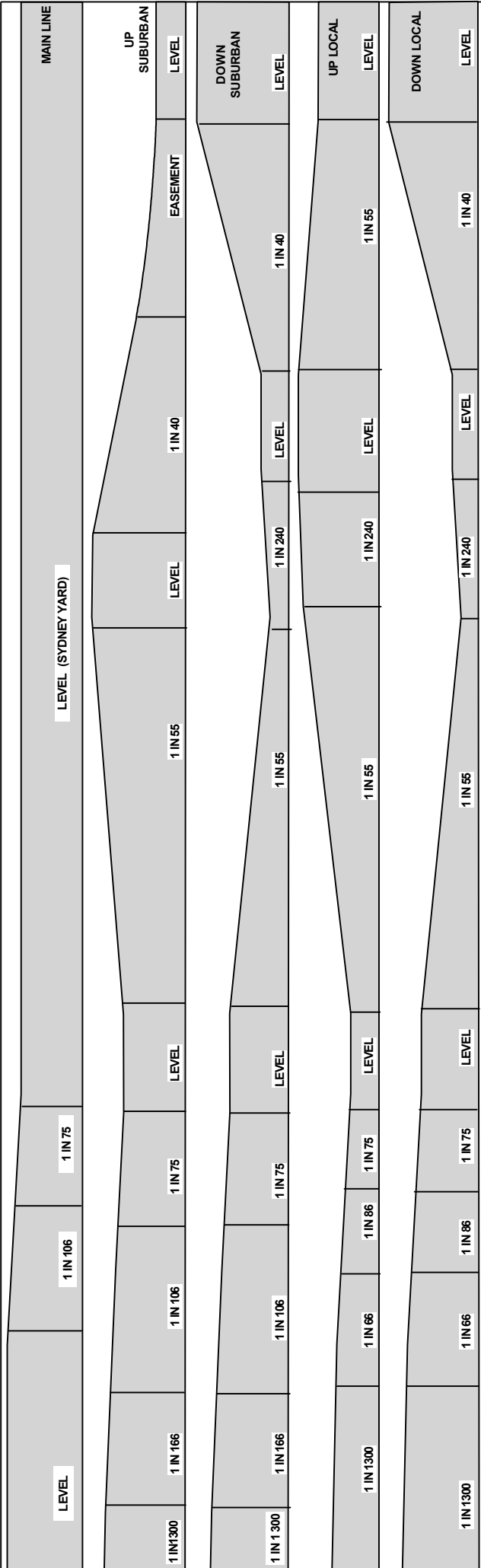
SIGNAL	DESTINATION	INDICATION
SY 115	UP GOODS	G
	UP MAIN	M
	REGENTS STREET	R

SIGNAL	DESTINATION	INDICATION
SY 121	DOWN MAIN (S)	DM
	DOWN SUBURBAN (S)	DS

SIGNAL	DESTINATION	INDICATION
SY 127	UP MAIN (M)	-
	UP MAIN (S)	UM
	ENGINE DIVE (M)	-
	ENGINE DIVE (S)	ED

SIGNAL	DESTINATION	INDICATION
SY 391 IL	DOWN NSR AIRPORT	A
	DOWN ILLAWARRA LOCAL	-
	DOWN LOCAL	L

SIGNAL	DESTINATION	INDICATION
SY 117	UP MAIN (S)	UM



SECTION : **CENTRAL TO REDFERN**
 MAP SET : CENTRAL TO WATERFALL
 PAGE : 3 OF 4
 UPDATED TO : 6 February 2024

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **002** (SYDNEY EAST UP)
 003 (SYDNEY DOWN)
 035 (SYDNEY ILLAWARRA JN)

TWO WAY RUNNING IN EVELEIGH ENGINE DIVE AND ON THE UP MAIN BETWEEN THE TAL SIGNAL BRIDGE IN SYDNEY YARD AND REDFERN

REDFERN
 TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN TRAINS	No. 10 PLATFORM	SHUNT FORWARD CLEAR OF SIGNAL SY 140 AND RETURN TO UP ILLAWARRA LOCAL VIA 653 CROSSOVER OR RUN INTO EVELEIGH PRESENTATION CENTRE.
	No. 2 PLATFORM	SHUNT FORWARD CLEAR OF SIGNAL SY 448 AND RETURN TO UP MAIN LINE VIA 647 CROSSOVER.
	NO. 6 PLATFORM	SHUNT FORWARD TO MACDONALDTOWN SIDINGS AND RETURN ON THE UP LOCAL OR UP ILLAWARRA LOCAL
UP TRAINS	No. 9 PLATFORM	THEN RETURN TO DOWN ILLAWARRA LINE OR PROCEED TO EVELEIGH TRAIN PRESENTATION CENTRE.
	No. 1 PLATFORM	THEN RETURN TO THE DOWN MAIN LINE OR DOWN ILLAWARRA DIVE OR ELSTONS SIDINGS.

CENTRAL
 TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN CITY OUTER AND DOWN SHORE TRAINS	No. 16 PLATFORM No. 17 PLATFORM	SHUNT FORWARD CLEAR OF SIGNAL SY 366 OR SY 364 WITHOUT ANY PORTION OF THE TRAIN PASSING THE RESPECTIVE CAR MARKER AND RETURN TO CENTRAL VIA POINT Nos. 617 AND 618 FOR PLATFORM 18 AND ALSO POINTS No. 619 FOR PLATFORM 19
DOWN CITY INNER TRAINS	No. 20 PLATFORM No. 21 PLATFORM	SHUNT FORWARD CLEAR OF SIGNAL SY 369 CI WITHOUT ANY PORTION OF THE TRAIN PASSING THE RESPECTIVE CAR MARKER AND RETURN TO CENTRAL VIA POINT No. 621 TO PLATFORMS Nos. 22 OR 23
UP AIRPORT LINE TRAINS	No. 22 PLATFORM No. 23 PLATFORM	CROSS FROM THE UP AIRPORT LINE TO THE DOWN AIRPORT LINE VIA No. 850 POINTS THEN TERMINATE ON PLATFORMS 22 OR 23. TRAIN NOW FORMS A DOWN SERVICE

CENTRAL
 TIMING MARKER SIGNS

FOUR TIMING MARKER SIGNS, EACH WITH A YELLOW REFLECTIVE LETTER ' T ' DISPLAYED ON A BLACK BACKGROUND, ARE PROVIDED IN THE CENTRAL FLYOVER AREA WHERE THE TIMING SECTIONS ARE UNUSUALLY SHORT.

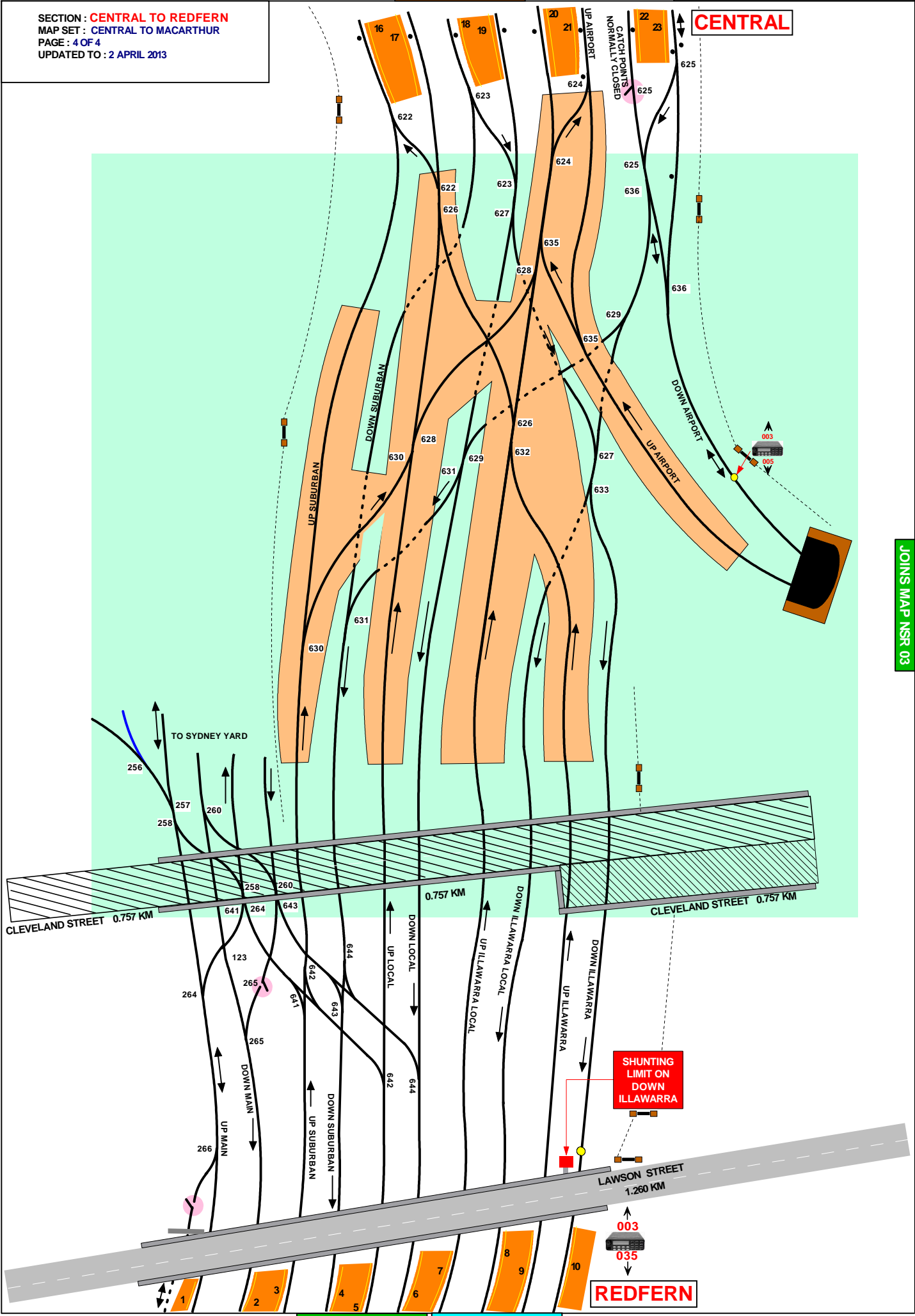
THEY ARE LOCATED AS FOLLOWS:

LINE	MARKER LOCATION
DOWN LOCAL	23 METRES IN APPROACH TO SIGNAL No. SY 397 L
UP LOCAL	16 METRES IN APPROACH TO SIGNAL No. SY 394 L
UP ILLAWARRA LOCAL	36 METRES IN APPROACH TO SIGNAL No. SY 388 IL, AND 16 METRES IN APPROACH TO SIGNAL No. 396 IL

A TRAIN APPROACHING ANY OF THESE SIGNALS AND SHOWING A LOW SPEED OR MEDIUM CAUTION INDICATION SHALL BE DRAWN PAST THE ' T ' MARKER SIGN, OTHERWISE THE TIMING WILL NOT COMMENCE AND THE TRAIN STOP WILL NOT CLEAR.

SECTION : **CENTRAL TO REDFERN**
MAP SET : **CENTRAL TO MACARTHUR**
PAGE : 4 OF 4
UPDATED TO : 2 APRIL 2013

CENTRAL



JOINS MAP NSR 03

REDFERN

SECTION : REDFERN TO ERSKINEVILLE
 REDFERN TO MACDONALDTOWN
 MAP SET : CENTRAL TO WATERFALL
 PAGE : 1 OF 4
 UPDATED TO : 29 May 2024

MULTI SPAD SIGNAL
 SY 481 M

MULTI SPAD SIGNAL
 SY 516 L

MULTI SPAD SIGNAL
 SY 537 I

MULTI SPAD SIGNAL
 SY 502

REDFERN

FOR PLATFORMS 11 & 12
 REFER TO MAP ESR 05 &
 ESR 06

7AE	7AE	7AE	7AE	7AE	7AE	7AE	7AE
S 1.49 AUTO 2.385 KM	L 1.49 AUTO 2.385 KM	SY 516 L ACCEPT 2.385 KM	SY 518 M ACCEPT 2.600 KM	SY 520 S ACCEPT 2.600 KM	SY 522 L ACCEPT 2.601 KM	SY 499 IL AUTO 1.957 KM	SY 536 IL ACCEPT 2.396 KM
YL	YL	YL	YL	YL	YL	YL	YL

NLA 100 CENTRAL
 REFER TO NLA 100 FOR
 GBWS
 PROCEDURES

W
 TRAINS EX
 MAC TOWN
 YARD

SIGN TO TEST
 WHISTLE X
 MAC TOWN
 YARD

POINTS
 CLEARED
8
 CARS

UP ILLAWARRA DIVE
 DOWN ILLAWARRA DIVE

1 IN 1300

LEVEL

1 IN 75

E

1 IN 75

LEVEL

GRADIENT FOR SOUTHERN LINES

1 IN 1300

E

1 IN 143

1 IN 85

1 IN 60

E

1 IN 132

1 IN 106

1 IN 69

E

1 IN 200

E

1 IN 106

E

1 IN 314

L

1 IN 2000

JOINS MAP
 YARDS 14

POINTS
 CLEARED
8
 CARS

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

JOINS MAP
 YARDS 14

MACDONALDTOWN
 STABLING YARD
 THESE SIGNS LOCATED
 WITHIN THE YARD
 (BACK TO BACK)

TRAIN
 WHISTLE
 RESTRICTIONS
 APPLY IN THIS
 YARD

MACDONALDTOWN

SPECIAL POINTS OF INTEREST

ERSKINEVILLE

SETTING BACK IS NOT PERMITTED AT ERSKINEVILLE ON THE DOWN ILLAWARRA LOCAL No. 2 PLATFORM.

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 002 (SYDNEY EAST UP)
003 (SYDNEY EAST DN)
035 (SYDNEY ILLAWARRA JN)

CONTROLLED FROM : SYDENHAM

RADIO AREA CODE : 007 (SYDENHAM)

SECTION : REDFERN TO ERSKINEVILLE
REDFERN TO MACDONALDTOWN

MAP SET : CENTRAL TO WATERFALL
PAGE : 2 of 4
UPDATED TO : 23 May 2023

SY 460 M HOME 1.495 KM	SY 462 V HOME 1.490 KM	SY 455 1.328 KM	SY 448 1.404 KM	SY 457 M HOME 1.391 KM	SY 450 S O/HOME 1.410 KM	SY 459 S O/HOME 1.389 KM	SY 452 L O/HOME 1.410 KM	SY 461 L O/HOME 1.417 KM	SY 454 IL AUTO 1.434 KM	SY 463 IL HOME 1.395 KM	SY 456 I O/HOME 1.494 KM	SY 467 1.386 KM	SY 465 I HOME/ STARTING 1.391 KM	SY 136 D HOME 1.544 KM	SY 138 No.1 HOME 1.551 KM	SY 137 D HOME 1.527 KM
SY 466 M O/HOME 1.595 KM	SY 468 UV HOME 1.591 KM	SY 470 DV HOME 1.591 KM	SY 471 V O/HOME 1.577 KM	SY 475 V O/HOME 1.684 KM	SY 472 S AUTO 1.591 KM	SY 474 L O/HOME 1.591 KM	SY 476 IL AUTO 1.636 KM	SY 473 IL O/HOME 1.630 KM	SY 478 I HOME 1.630 KM	SY 140 1.598 KM	SY 469 I AUTO 1.596 KM					
SY 480 M O/HOME 1.767 KM	SY 481 M O/HOME 1.764 KM	SY 482 S AUTO 1.764 KM	SY 483 S O/HOME 1.764 KM	SY 484 L O/HOME 1.764 KM	SY 485 L HOME 1.796 KM	SY 486 IL O/HOME 1.818 KM	SY 487 IL HOME 1.796 KM	SY 488 I O/HOME 1.822 KM	SY 489 I AUTO 1.733 KM							
SY 512 M HOME 2.245 KM	SY 513 M AUTO 2.220 KM	SY 514 S HOME 2.245 KM	S 1.49 AUTO 2.385 KM	SY 516 L HOME 2.385 KM	SY 517 AUTO 2.220 KM	SY 518 M 2.600 KM	SY 520 S 2.600 KM	L 1.49 AUTO 2.385 KM	SY 528 IL HOME 2.124 KM	SY 529 IL STARTING 2.121 KM	SY 530 I AUTO 2.169 KM	SY 531 I HOME 2.154 KM	SY 532 DV AUTO 2.156 KM	SY 533 V HOME 2.243 KM		
SY 490 M O/HOME 1.925 KM	SY 493 M HOME 1.943 KM	SY 492 S O/HOME 1.943 KM	SY 495 S HOME / STARTING 1.942 KM	SY 494 L HOME 1.965 KM	SY 507 1.958 KM	508	SY 497 L HOME / STARTING 1.965 KM	SY 496 IL HOME 1.978 KM	SY 498 V HOME 1.966 KM	SY 499 IL AUTO 1.957 KM	SY 500 I AUTO 1.980 KM	SY 501 I O/HOME 1.980 KM	502 AUTO 2.124 KM	503 AUTO 2.117 KM	SY 525 V HOME 2.053 KM	
SY 536 IL ACCEPT 2.396 KM	SY 546 IL HOME 2.622 KM	SY 552 IL HOME 2.787 KM	SY 535 IL HOME 2.345 KM	IL 1.5 AUTO 2.618 KM	IL 1.7 AUTO 2.751 KM	SY 538 I HOME 2.396 KM	SY 540 I O/HOME 2.622 KM	SY 537 I O/HOME 2.345 KM	SY 539 I REPEAT 2.517 KM	SY 539 I HOME 2.618 KM	SY 547 I O/HOME 2.787 KM	SY 542 I 2.790 KM	SY 541 I HOME 2.605 KM	SY 543 IR ACCEPT 2.837 KM	SY 545 IR HOME 2.915 KM	SY 544 I 2.797 KM

POINTS OF NO RETURN

SIGNAL No.	LOCATION	DESTINATIONS
SY 455 1.328KM	PLATFORM 1 REDFERN	TURN OUT FOR ELSTONS SIDINGS OR DOWN ILLAWARRA
SY 457 M 1.391 KM	PLATFORM No. 2 REDFERN	TURN OUT FOR DOWN ILLAWARRA LINES
SY 485 L 1.796 KM	DOWN LOCAL	TURN OUT FOR ILLAWARRA LINES
SY 465 I 1.494 KM	PLATFORM No. 10 REDFERN	TURN OUT FOR EVELEIGH
SY 525 V 2.053 KM	DOWN ILLAWARRA DIVE	TURN OUT FOR EVELEIGH
SY 512 M 2.245 KM	UP MAIN	MUST CROSS TO SUBURBAN FOR ETR PLATFORMS 16 - 21
SY 496 IL 1.978 KM	UP ILLAWARRA LOCAL	MUST TURN OUT TO UP LOCAL FOR SYDNEY YARD
SY 497 L 1.965 KM	DOWN LOCAL	MACDONALDTOWN TURNBACK SIDINGS
SY 538 I 2.396 KM	UP ILLAWARRA	TURN OUT THROUGH ILLAWARRA DIVE FOR SYDNEY YARD
SY 485 L 1.796 KM	DOWN LOCAL	TURN OUT FOR ILLAWARRA LINES
SY 544 I 2.797 KM	CITY END ERSKINEVILLE PLATFORM	TURN OUT FOR ESR OR EVELEIGH

REDFERN

TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN TRAINS	No. 10 PLATFORM	SHUNT FORWARD CLEAR OF SIGNAL SY 140 AND RETURN TO UP ILLAWARRA LOCAL VIA 653 CROSSOVER OR RUN INTO EVELEIGH PRESENTATION CENTRE.
	No. 2 PLATFORM	SHUNT FORWARD CLEAR OF SIGNAL SY 448 AND RETURN TO UP MAIN LINE VIA 647 CROSSOVER.
	NO. 6 PLATFORM	SHUNT FORWARD TO MACDONAL TOWN YARD AND RETURN TO THE UP LOCAL VIA 665 CROSSOVER.
UP TRAINS	No. 9 PLATFORM	THEN RETURN TO DOWN ILLAWARRA LINE OR PROCEED TO EVELEIGH TRAIN PRESENTATION CENTRE.
	No. 1 PLATFORM	THEN RETURN TO DOWN MAIN LINE OR DOWN ILLAWARRA DIVE.

RADIO TRANSPONDER AREA NUMBERS

▲	●	●	●	●	●	●
→	001	002	003	035	001	258
←	035	035	035	258	258	035

MACDONALDTOWN

TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
UP TRAINS	No. 1 PLATFORM	SHUNT FORWARD TO A POSITION CLEAR OF SIGNAL SY 507, THEN RETURN TO DOWN LOCAL LINE VIA 665 CROSSOVER OR DOWN SUBURBAN VIA 665 AND 670 CROSSOVERS

ERSKINEVILLE

TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN ILLAWARRA DOWN E.S.R	PLATFORM No. 4 ERSKINEVILLE	EVELEIGH YARD

SPECIAL POINTS OF INTEREST

ERSKINEVILLE

SETTING BACK IS NOT PERMITTED AT ERSKINEVILLE ON THE DOWN ILLAWARRA LOCAL No. 2 PLATFORM.

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 002 (SYDNEY EAST UP)
003 (SYDNEY EAST DN)
035 (SYDNEY ILLAWARRA JN)

CONTROLLED FROM : SYDENHAM

RADIO AREA CODE : 007 (SYDENHAM)

SECTION : REDFERN TO ERSKINEVILLE
REDFERN TO MACDONALDTOWN

MAP SET : CENTRAL TO WATERFALL
PAGE : 3 OF 4
UPDATED TO : 23 May 2023

SIGNAL	DESTINATION	INDICATION
SY 138	UP ILLAWARRA (S)	UI
	DOWN ILLAWARRA (S)	DI

SIGNAL	DESTINATION	INDICATION
SY 140	UP ILLAWARRA (S)	UI
	DOWN ILLAWARRA (S)	DI

SIGNAL	DESTINATION	INDICATION
SY 455	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	DOWN ILLAWARRA DIVE (M) (VIA 647 & 649 POINTS)	I
	DOWN ILLAWARRA DIVE (S) (VIA 647 & 649 POINTS)	ID
	DOWN ILLAWARRA DIVE (M) (VIA 648 & 655 POINTS)	I
	DOWN ILLAWARRA DIVE (S) (VIA 648 & 645 POINTS)	ID
	ELSTON SIDINGS (S)	ES

SIGNAL	DESTINATION	INDICATION
SY 465 I	ARRIVAL/DEPARTURE ROAD (S)	AD
	DOWN ILLAWARRA (S)	DI

SIGNAL	DESTINATION	INDICATION
SY 467	ARRIVAL/DEPARTURE ROAD (S)	AD
	DOWN ILLAWARRA (S)	DI

SIGNAL	DESTINATION	INDICATION
502	UP LOCAL	UL
	UP ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
503	SIDING No.1	S1
	SIDING No.2	S2
	SIDING No.3	S3
	SIDING No.4	S4
	SIDING No.5	S5
	SIDING No.6	S6

SIGNAL	DESTINATION	INDICATION
SY 507	TURN BACK	TB
	DOWN LOCAL	DL
	DOWN SUBURBAN	DS

SIGNAL	DESTINATION	INDICATION
SY 508	UP LOCAL	UL

SIGNAL	DESTINATION	IND.
SY 531 I	DOWN ILLAWARRA (M)	-
	DOWN ILLAWARRA (S)	-

SIGNAL	DESTINATION	IND.
SY 533 V	DOWN ILLAWARRA (M)	-
	DOWN ILLAWARRA (S)	-

SIGNAL	DESTINATION	IND.
SY 535 IL	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	-

SIGNAL	DESTINATION	IND.
SY 537 I	DOWN ILLAWARRA (M)	-
	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA (S)	DI
	DOWN ILLAWARRA LOCAL (S)	DL

DI DL

SIGNAL	DESTINATION	IND.
SY 538 I	UP ILLAWARRA DIVE (M)	-
	UP ILLAWARRA (M)	-
	UP ILLAWARRA DIVE (S)	ID
	UP ILLAWARRA (S)	UI

DI DL

SIGNAL	DESTINATION	INDICATION
SY 539 I	DOWN ILLAWARRA	-
	DOWN ILLAWARRA	-

SIGNAL	DESTINATION	IND.
SY 540 I	UP ILLAWARRA (M)	-
	UP ILLAWARRA (S)	-

SIGNAL	DESTINATION	IND.
SY 541 I	DOWN ILLAWARRA (M)	-
	UP ILLAWARRA (S)	-

SIGNAL	DESTINATION	IND.
SY 546 IL	UP ILLAWARRA LOCAL(M)	-
	UP ILLAWARRA(M)	-
	UP ILLAWARRA (S)	UL
	UP ILLAWARRA LOCAL (S)	UI

UL UI

SIGNAL	DESTINATION	IND.
SY 544 IL	UP ILLAWARRA (M)	-
	-	-
	UP ILLAWARRA RELIEF (S)	UI
	EVELEIGH YARD (S)	Y
	UP ILLAWARRA RELIEF (S)	UR

UI UR

SECTION : REDFERN TO ERSKINEVILLE
REDFERN TO MACDONALDTOWN
MAP SET : CENTRAL TO MACARTHUR
PAGE : 4 OF 4
UPDATED TO : 23 May 2023

FOR PLATFORMS 11 & 12
REFER TO MAP ESR 06 & ESR 06

REDFERN

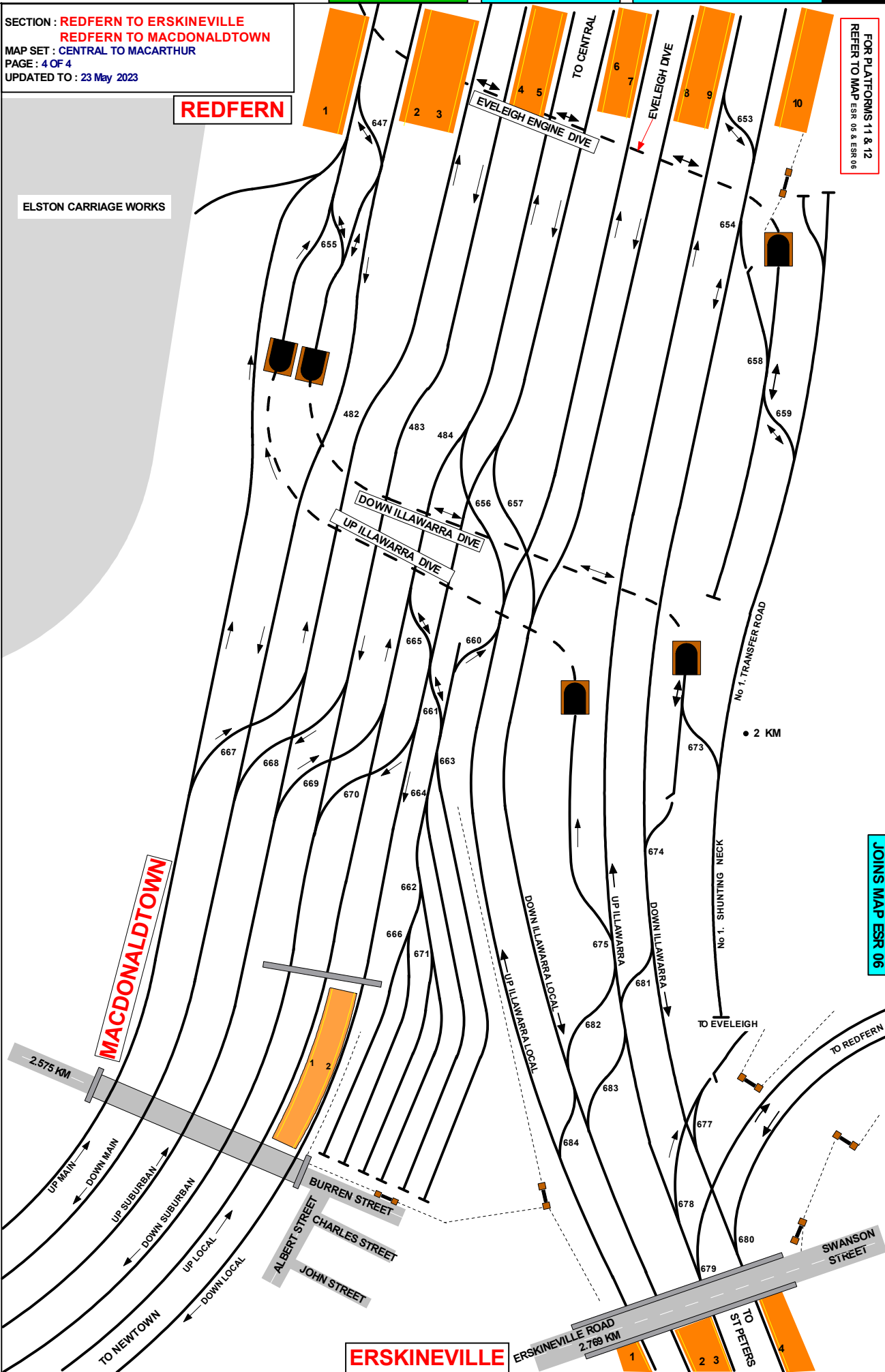
ELSTON CARRIAGE WORKS

MACDONALDTOWN

ERSKINEVILLE

JOINS MAP ESR 06

1 IN 2000	L	1 IN 314	E	1 IN 106	E	1 IN 200	E	1 IN 69	1 IN 106	1 IN 132	E	1 IN 60	1 IN 95	1 IN 143	E	1 IN 1300	
1 IN 1300	LEVEL		1 IN 75	LEVEL		GRADIENT FOR ILLAWARRA LINES										GRADIENT FOR SOUTHERN LINES	



SECTION : **ST PETERS TO SYDENHAM**
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 29 May 2024

GRADIENT

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE
 RADIO AREA CODE : 007 (SYDENHAM)
 005 (SYDENHAM)
 004 (SYDENHAM)

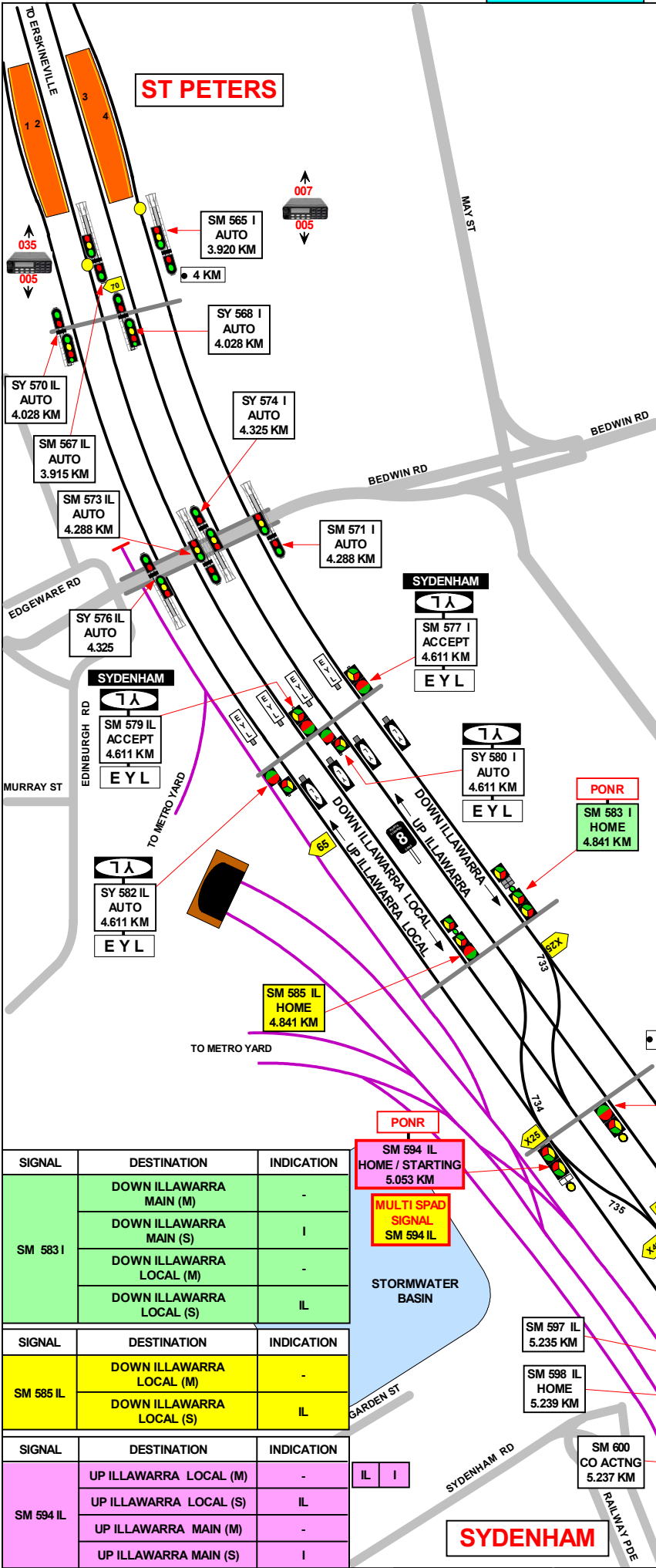
SPECIAL POINTS OF INTEREST
ST PETERS

SETTING BACK IS NOT PERMITTED AT ST PETERS
 DOWN ILLAWARRA LOCAL No. 2 PLATFORM AND
 DOWN ILLAWARRA No. 4 PLATFORM.

— METRO TRAINS SYDNEY NETWORK

PONR
POINTS OF NO RETURN

SIGNAL No.	LOCATION	DESTINATION
SM 583 I	DOWN ILLAWARRA APPROXIMATELY 400 METRES SYDNEY SIDE OF No. 6 PLATFORM SYDENHAM	BANKSTOWN LINE OR XPT SERVICE CENTRE
SM 594 IL	UP ILLAWARRA LOCAL APPROXIMATELY 200 METRES SYDNEY SIDE OF No. 3 PLATFORM SYDENHAM	ESR



SIGNAL	DESTINATION	INDICATION
SM 583 I	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	I
	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	IL

SIGNAL	DESTINATION	INDICATION
SM 585 IL	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	IL

SIGNAL	DESTINATION	INDICATION
SM 594 IL	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	IL
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	I

PONR
 SM 594 IL HOME / STARTING 5.053 KM
MULTI SPAD SIGNAL
 SM 594 IL

STORMWATER BASIN

IL I

1 IN 233

1 IN 110

1 IN 105

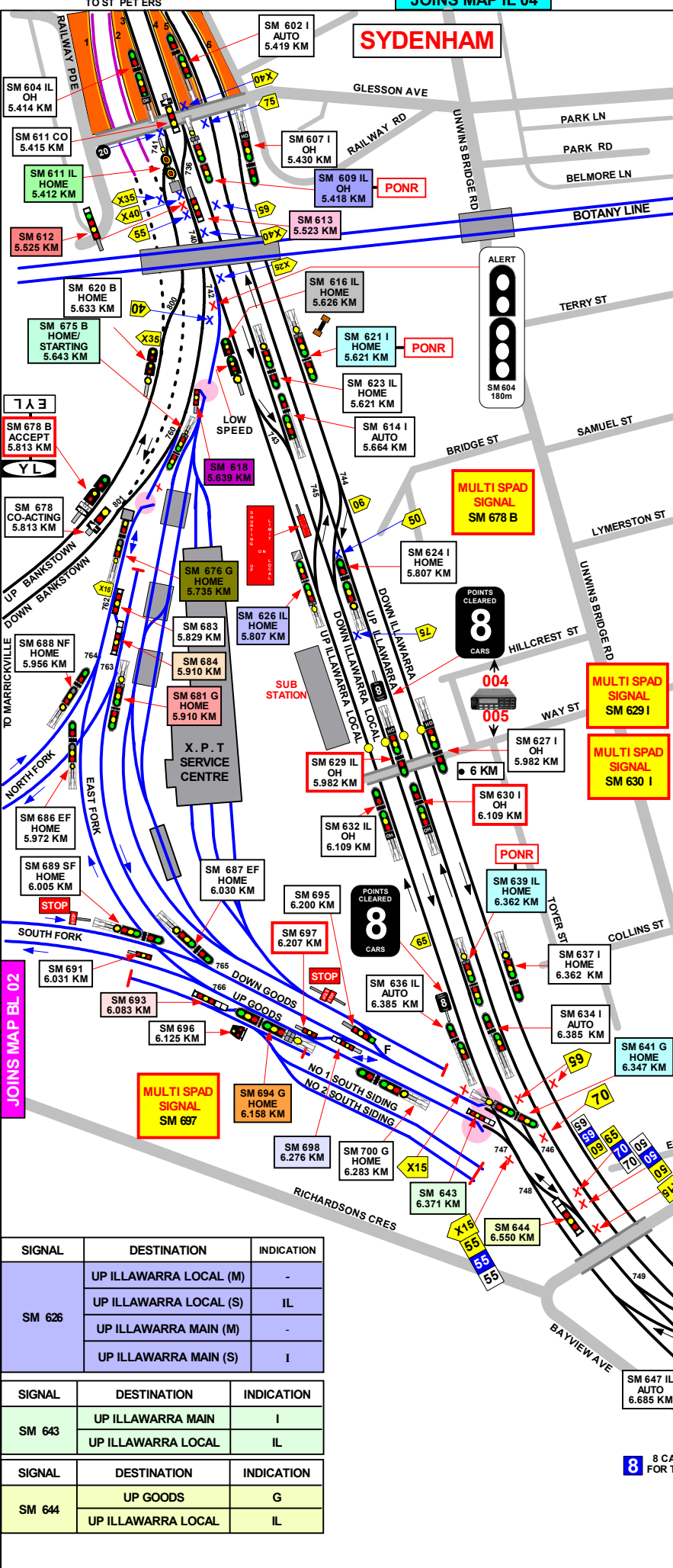
1 IN 388

1 IN 300

1 IN 330

1 IN 550

1 IN 440



SECTION : SYDENHAM TO TEMPE
MAP SET : CENTRAL TO WATERFALL
PAGE: 1 OF 2
UPDATED TO : 9 October 2023

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 004 (SYDENHAM)
 005 (SYDENHAM)

SPECIAL POINTS OF INTEREST

METRO TRAINS SYDNEY NETWORK

GRADIENT			
1 IN 440			
1 IN 220			
1 IN 367			
LEVEL			
1 IN 367			
1 IN 286			
1 IN 500			

SIGNAL	DESTINATION	INDICATION
SM 609	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	D
	UP ILLAWARRA LOCAL (S)	U
	DOWN BANKSTOWN (M)	-

SIGNAL	DESTINATION	INDICATION	CO-ACT IND
SM 611	DOWN ILLAWARRA LOCAL (M)	L	L
	UP ILLAWARRA LOCAL (S)	-	-
	DOWN BANKSTOWN (M)	B	B

SIGNAL	DESTINATION	INDICATION
SM 612	UP ILLAWARRA LOCAL (S) (GREEN LIGHT)	U
	DOWN ILLAWARRA LOCAL (S)	D

SIGNAL	DESTINATION	INDICATION
SM 613	DOWN ILLAWARRA LOCAL (S)	D
	UP ILLAWARRA LOCAL (S) (SHUNTING LIMIT)	U
	XPT MAINTENANCE CENT	X
	DOWN BANKSTOWN (S)	B

SIGNAL	DESTINATION	INDICATION
SM 616	UP ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	-

SIGNAL	DESTINATION	INDICATION
SM 618	UP ILLAWARRA LOCAL (S)	-

SIGNAL	DESTINATION	INDICATION
SM 621 I & SM 639 IL & SM 641 G	DOWN ILLAWARRA (M)	-
	DOWN ILLAWARRA (S)	I
	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	IL

SIGNAL	DESTINATION	INDICATION
SM 626	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	IL
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	I

SIGNAL	DESTINATION	INDICATION
SM 643	UP ILLAWARRA MAIN	I
	UP ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
SM 644	UP GOODS	G
	UP ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
SM 609	DOWN ILLAWARRA LOCAL (M)	
	DOWN ILLAWARRA LOCAL (S)	D
	UP ILLAWARRA LOCAL (S)	U
	DOWN BANKSTOWN (M)	

SIGNAL	DESTINATION	INDICATION	CO-ACT IND
SM 611	DOWN ILLAWARRA LOCAL (M)	L	L
	UP ILLAWARRA LOCAL (S)	-	-
	DOWN BANKSTOWN (M)	B	B

SIGNAL	DESTINATION	INDICATION
SM 612	UP ILLAWARRA LOCAL (S) (GREEN LIGHT)	U
	DOWN ILLAWARRA LOCAL (S)	D

SIGNAL	DESTINATION	INDICATION
SM 613	DOWN ILLAWARRA LOCAL (S)	D
	UP ILLAWARRA LOCAL (S) (SHUNTING LIMIT)	U
	XPT MAINTENANCE CENT	X
	DOWN BANKSTOWN (S)	B

SIGNAL	DESTINATION	INDICATION
SM 616 IL	UP BANKSTOWN (M)	1
	UP BANKSTOWN (S)	1
	DOWN BANKSTOWN (M)	2
	DOWN BANKSTOWN (S)	2
	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	IL

SIGNAL	DESTINATION	INDICATION
SM 621 I & SM 639 IL & SM 641 G	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	I
	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	IL

SIGNAL	DESTINATION	INDICATION
SM 618	UP ILLAWARRA LOCAL (S)	-

SIGNAL	DESTINATION	INDICATION
SM 626 IL	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	IL
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	I

SIGNAL	DESTINATION	INDICATION
SM 643	UP ILLAWARRA MAIN	I
	UP ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
SM 644	UP GOODS	G
	UP ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
SM 648 IL	UP GOODS (M)	-
	UP GOODS (S)	G
	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	IL

SIGNAL	DESTINATION	INDICATION
SM 650 I	UP GOODS (M)	G
	UP GOODS (S)	G
	UP ILLAWARRA LOCAL (M)	IL
	UP ILLAWARRA LOCAL (S)	IL
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	I

SIGNAL	DESTINATION	INDICATION
SM 675 B	DOWN GOODS (M)	-
	DOWN GOODS (S)	G
	DOWN BANKSTOWN (M)	-
	DOWN BANKSTOWN (S)	B

SIGNAL	DESTINATION	INDICATION
SM 681 G	DOWN EAST FORK (M)	-
	DOWN EAST FORK (S)	EF
	DOWN NORTH FORK (M)	-
	DOWN NORTH FORK (S)	NF

SIGNAL	DESTINATION	INDICATION
SM 694 G	UP SHUNTING NECK (S)	SN
	UP SOUTH FORK (M)	-
	UP SOUTH FORK (S)	SF
	UP EAST FORK (M)	-
	UP EAST FORK (S)	EF

SECTION : **SYDENHAM TO TEMPE**
 MAP SET : **CENTRAL TO WATERFALL**
 PAGE: 2 OF 2
 UPDATED TO : 31 October 2023

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **004 (SYDENHAM)**
005 (SYDENHAM)

PROPELLING MOVEMENTS

ALL PROPELLING MOVEMENTS MUST BE CARRIED OUT AS PER PROCEDURES SET OUT IN "NTR 424 / OSP 15" IN THE NETWORK RULES AND OPERATORS SPECIFIC PROCEDURES MANUALS.

SYDENHAM TERMINATING TRAINS (UNDER NORMAL CONDITIONS)		
FROM	TERMINATE AT	THEN GO TO
UP BANKSTOWN	No. 3 PLATFORM	RETURN TO EITHER THE DOWN BANKSTOWN LINE, THE DOWN ILLAWARRA LOCAL LINE, THE XPT SIDINGS OR THE GOODS LINES
UP ILLAWARRA LINE	No. 3 PLATFORM	RETURN TO EITHER THE DOWN BANKSTOWN LINE, THE DOWN ILLAWARRA LOCAL LINE, THE XPT SIDINGS OR THE GOODS LINES.
	No. 4 PLATFORM	RETURN TO EITHER THE DOWN BANKSTOWN LINE, THE DOWN ILLAWARRA LOCAL LINE, THE XPT SIDINGS OR THE GOODS LINES.
DOWN TRAINS	No.4 PLATFORM - RETURN TO UP ILLAWARRA LOCAL VIA 735PTS	
DOWN TRAINS AT TEMPE	DOWN ILLAWARRA TRAINS MAY TERMINATE BEHIND SIGNAL SM 644 AND RETURN TO THE UP ILLAWARRA LOCAL LINE.	
UP TRAINS AT TEMPE	UP GOODS LINE AT SIGNAL No. SM 700	RETURN TO THE DOWN ILLAWARRA LOCAL OR DOWN ILLAWARRA LINE VIA No. 748 POINTS
	UP SOUTH FORK	RETURN TO THE DOWN GOODS LINE VIA No. 770 POINTS.

SELF-PROPELLED DIESEL TRAINS MAY TERMINATE ON		
FROM	TERMINATE AT	THEN GO TO
	DOWN EAST FORK	RETURN TO THE UP NORTH FORK VIA No. 762 POINTS.
	DOWN GOODS LINE	RETURN TO THE UP SOUTH FORK VIA No. 770 POINTS.
	DOWN ILLAWARRA LOCAL LINE AT SIGNAL No. SM 644	RETURN TO EITHER THE UP NORTH FORK VIA Nos. 775 AND 773 POINTS OR THE DOWN SOUTH FORK VIA No. 775 POINTS

PONR POINT OF NO RETURN		
SIGNAL No.	LOCATION	DESTINATION
SM 609 IL	COUNTRY END OF No. 4 PLATFORM SYDENHAM (DOWN ILLAWARRA LOCAL)	BANKSTOWN LINE
SM 621 I	APPROX. 250 METRES COUNTRY SIDE OF No. 6 PLATFORM SYDENHAM (DOWN ILLAWARRA)	EAST HILLS LINE
SM 639 IL	APPROX. 1 KILOMETRE COUNTRY SIDE OF No. 4 PLATFORM SYDENHAM (DOWN ILLAWARRA LOCAL)	WOLLI CREEK STATION
SM 675 B	DOWN BANKSTOWN LINE AT 5.643 KM	GOODS LINE
SM 648 IL	SYDNEY END OF No. 1 PLATFORM TEMPE	GOODS LINE
SM 650 I	SYDNEY END OF No. 3 PLATFORM TEMPE	GOODS LINE

TO SYDENHAM

GRADIENT

PONR POINT OF NO RETURN		
SIGNAL	LOCATION	DESTINATION
SM 659 IL	APPROX. 336 METRES COUNTRY SIDE OF No. 2 PLATFORM TEMPE	EAST HILLS LINE
SM 670 IL	APPROX. 500 METRES SYDNEY SIDE OF No. 1 PLATFORM ARNCLIFFE	WOLLI CREEK STATION

SECTION : TEMPE TO ARNCLIFFE
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 29 August 2022

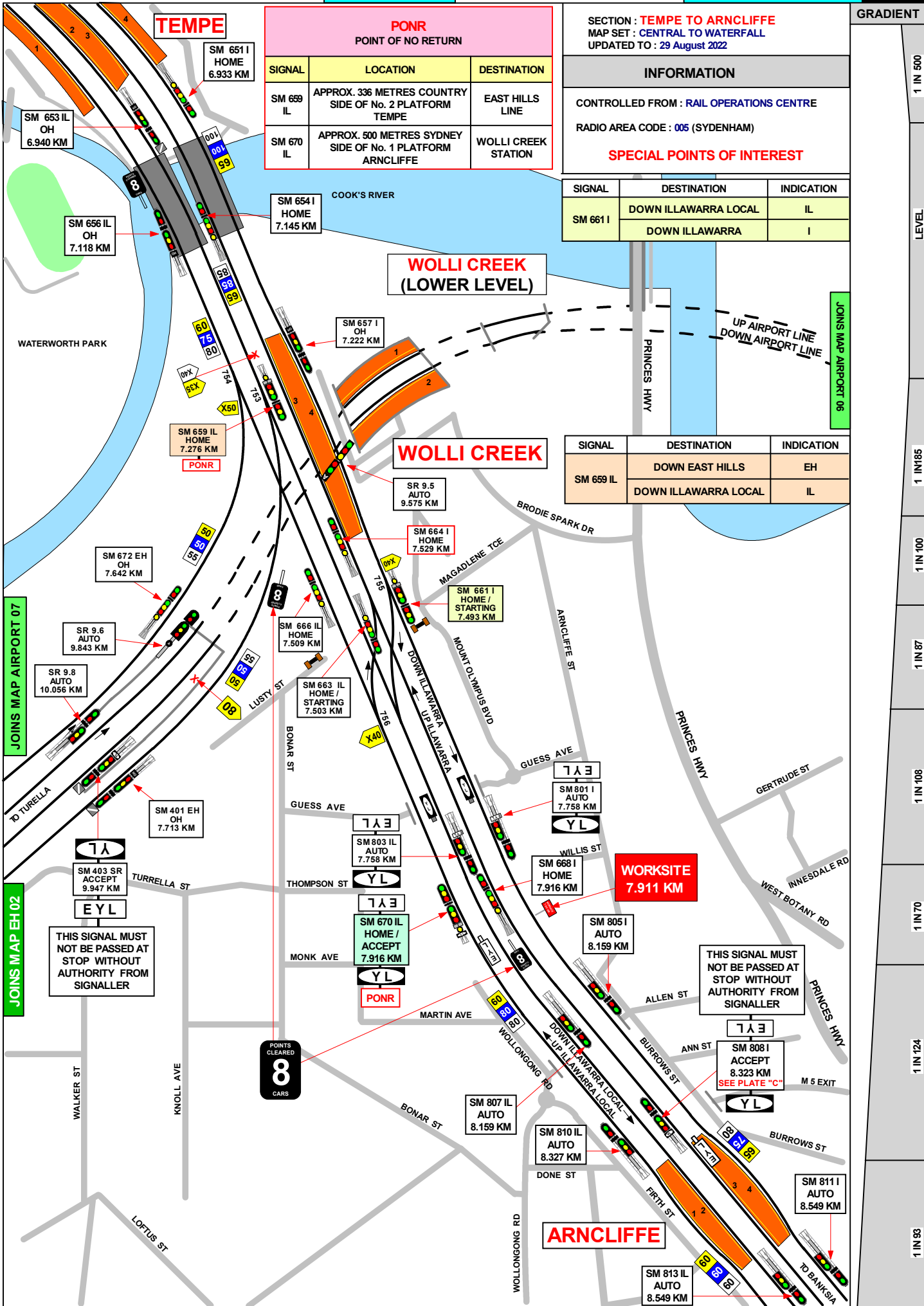
INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE
 RADIO AREA CODE : 005 (SYDENHAM)

SPECIAL POINTS OF INTEREST

SIGNAL	DESTINATION	INDICATION
SM 661 I	DOWN ILLAWARRA LOCAL	IL
	DOWN ILLAWARRA	I

SIGNAL	DESTINATION	INDICATION
SM 659 IL	DOWN EAST HILLS	EH
	DOWN ILLAWARRA LOCAL	IL



JOINS MAP AIRPORT 07

JOINS MAP EH 02

JOINS MAP AIRPORT 06

SECTION : ARNCLIFFE TO ROCKDALE
MAP SET : CENTRAL TO WATERFALL
UPDATED TO : 2 April 2020

GRADIENT

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE
RADIO AREA CODE : 005 (SYDENHAM)

DOWN MAIN
WORKSITE LIMITS SIGNAL KEY SWITCH AT
SM 840 I SIGNAL TO SM 808 I SIGNAL

KEYS INSCRIBED AS FOLLOWS
SM 842 IL UP ILLAWARRA LOCAL
7.911 KM TO 10.152 KM

WORKSITE
DO NOT PASS AT
STOP WITHOUT
AUTHORITY

1 IN 93

1 IN 132

1 IN 116

1 IN 97

1 IN 165

LEVEL

1 IN 253

1 IN 336

1 IN 1002

1 IN 3300

1 IN 368

1 IN 1100

ARNCLIFFE

SM 811 I
AUTO
8.549 KM

SM 813 IL
AUTO
8.549 KM

SM 816 IL
AUTO
9.133 KM

SM 814 I
AUTO
8.945 KM

SM 819 IL
AUTO
9.133 KM

SM 822 IL
AUTO
9.290 KM
SEE PLATE "B"

SM 825 IL
AUTO
9.290 KM
SEE PLATE "B"

SM 828 IL
AUTO
9.518 KM

SM 817 I
AUTO
8.945 KM
SEE PLATE "B"

SM 820 I
AUTO
9.290 KM
SEE PLATE "B"

SM 823 I
AUTO
9.290 KM
SEE PLATE "B"

BANKSIA

SM 826 I
AUTO
9.518 KM

SM 833 IL
AUTO/CONT
HOME
9.700 KM
SEE PLATE "A"

SM 831 I
AUTO/CONT
HOME
9.700 KM
SEE PLATE "A"

PLATE "A"

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 PERWAY SIDING
AND MUST NOT RESTART UNTIL
SATISFIED SHUNTING IS NOT TAKING
PLACE

PLATE "B"

DRIVERS WHEN PASSING THIS
SIGNAL AT STOP MUST PROCEED
WITH CAUTION AND BRING THEIR
TRAIN TO A STAND CLEAR OF THE
PERWAY SIDING AND MUST NOT
RESTART UNTIL SATISFIED
SHUNTING IS NOT TAKING PLACE

SM 836 IL
AUTO
9.880 KM

SM 834 I
AUTO/CONT
HOME
9.880 KM
SEE PLATE "A"

WORKSITE
10.084 KM

SM 839 IL
AUTO
10.142 KM

WORKSITE
10.152 KM

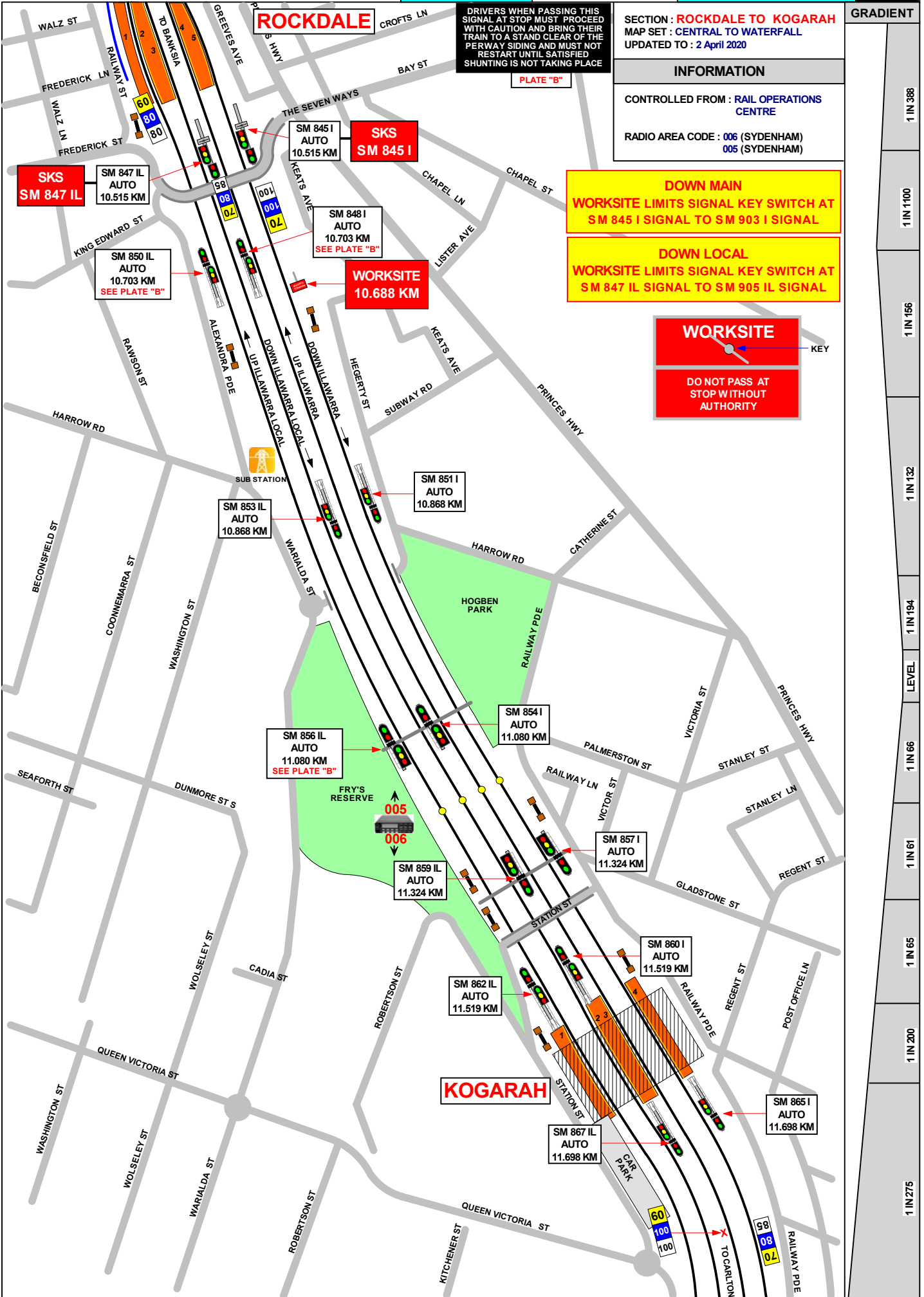
SKS
SM 840 I

SM 840 I
AUTO
10.320 KM
SEE PLATE "B"

SKS
SM 842 IL

SM 842 IL
AUTO/CONT
HOME
10.320 KM

ROCKDALE



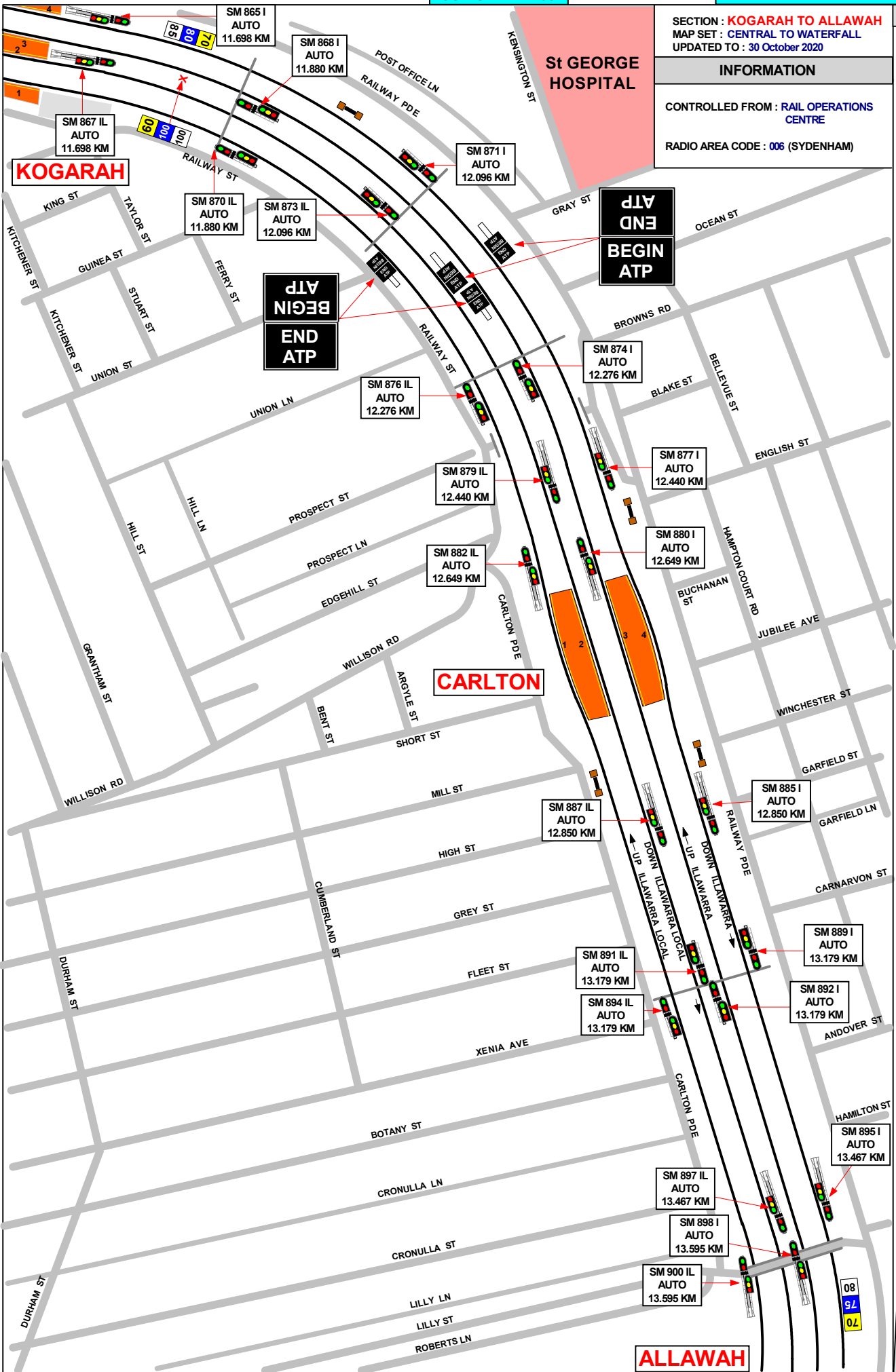
SECTION : **KOGARAH TO ALLAWAH**
 MAP SET : **CENTRAL TO WATERFALL**
 UPDATED TO : 30 October 2020

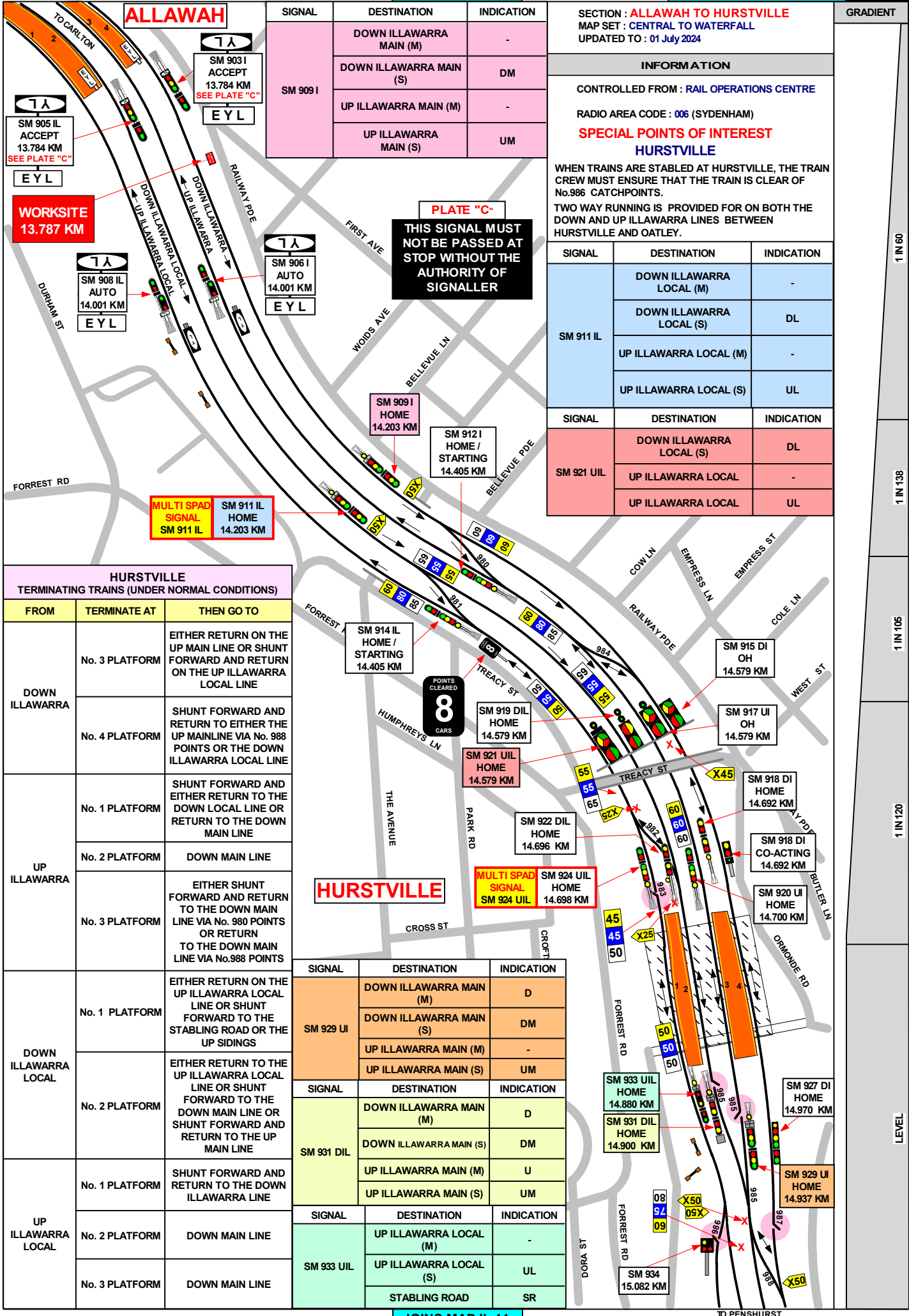
INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **006 (SYDENHAM)**

GRADIENT	
1 IN 275	1 IN 275
1 IN 67	1 IN 73
1 IN 67	1 IN 79
1 IN 50	1 IN 73
1 IN 69	1 IN 60
1 IN 60	1 IN 57
1 IN 60	1 IN 60





SIGNAL	DESTINATION	INDICATION
SM 909 I	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM

SECTION : ALLAWAH TO HURSTVILLE
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 01 July 2024

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 006 (SYDENHAM)

SPECIAL POINTS OF INTEREST
 HURSTVILLE

WHEN TRAINS ARE STABLED AT HURSTVILLE, THE TRAIN CREW MUST ENSURE THAT THE TRAIN IS CLEAR OF No.986 CATCHPOINTS.

TWO WAY RUNNING IS PROVIDED FOR ON BOTH THE DOWN AND UP ILLAWARRA LINES BETWEEN HURSTVILLE AND OATLEY.

SIGNAL	DESTINATION	INDICATION
SM 911 IL	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	DL
	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	UL

SIGNAL	DESTINATION	INDICATION
SM 921 UIL	DOWN ILLAWARRA LOCAL (S)	DL
	UP ILLAWARRA LOCAL	-
	UP ILLAWARRA LOCAL	UL

HURSTVILLE
 TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN ILLAWARRA	No. 3 PLATFORM	EITHER RETURN ON THE UP MAIN LINE OR SHUNT FORWARD AND RETURN ON THE UP ILLAWARRA LOCAL LINE
	No. 4 PLATFORM	SHUNT FORWARD AND RETURN TO EITHER THE UP MAINLINE VIA No. 988 POINTS OR THE DOWN ILLAWARRA LOCAL LINE
UP ILLAWARRA	No. 1 PLATFORM	SHUNT FORWARD AND EITHER RETURN TO THE DOWN LOCAL LINE OR RETURN TO THE DOWN MAIN LINE
	No. 2 PLATFORM	DOWN MAIN LINE
	No. 3 PLATFORM	EITHER SHUNT FORWARD AND RETURN TO THE DOWN MAIN LINE VIA No. 980 POINTS OR RETURN TO THE DOWN MAIN LINE VIA No.988 POINTS
DOWN ILLAWARRA LOCAL	No. 1 PLATFORM	EITHER RETURN ON THE UP ILLAWARRA LOCAL LINE OR SHUNT FORWARD TO THE STABLING ROAD OR THE UP SIDINGS
	No. 2 PLATFORM	EITHER RETURN TO THE UP ILLAWARRA LOCAL LINE OR SHUNT FORWARD TO THE DOWN MAIN LINE OR SHUNT FORWARD AND RETURN TO THE UP MAIN LINE
UP ILLAWARRA LOCAL	No. 1 PLATFORM	SHUNT FORWARD AND RETURN TO THE DOWN ILLAWARRA LINE
	No. 2 PLATFORM	DOWN MAIN LINE
	No. 3 PLATFORM	DOWN MAIN LINE

SIGNAL	DESTINATION	INDICATION
SM 929 UI	DOWN ILLAWARRA MAIN (M)	D
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SM 931 DIL	DOWN ILLAWARRA MAIN (M)	D
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	U
UP ILLAWARRA MAIN (S)	UP ILLAWARRA MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SM 933 UIL	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	UL
	STABLING ROAD	SR

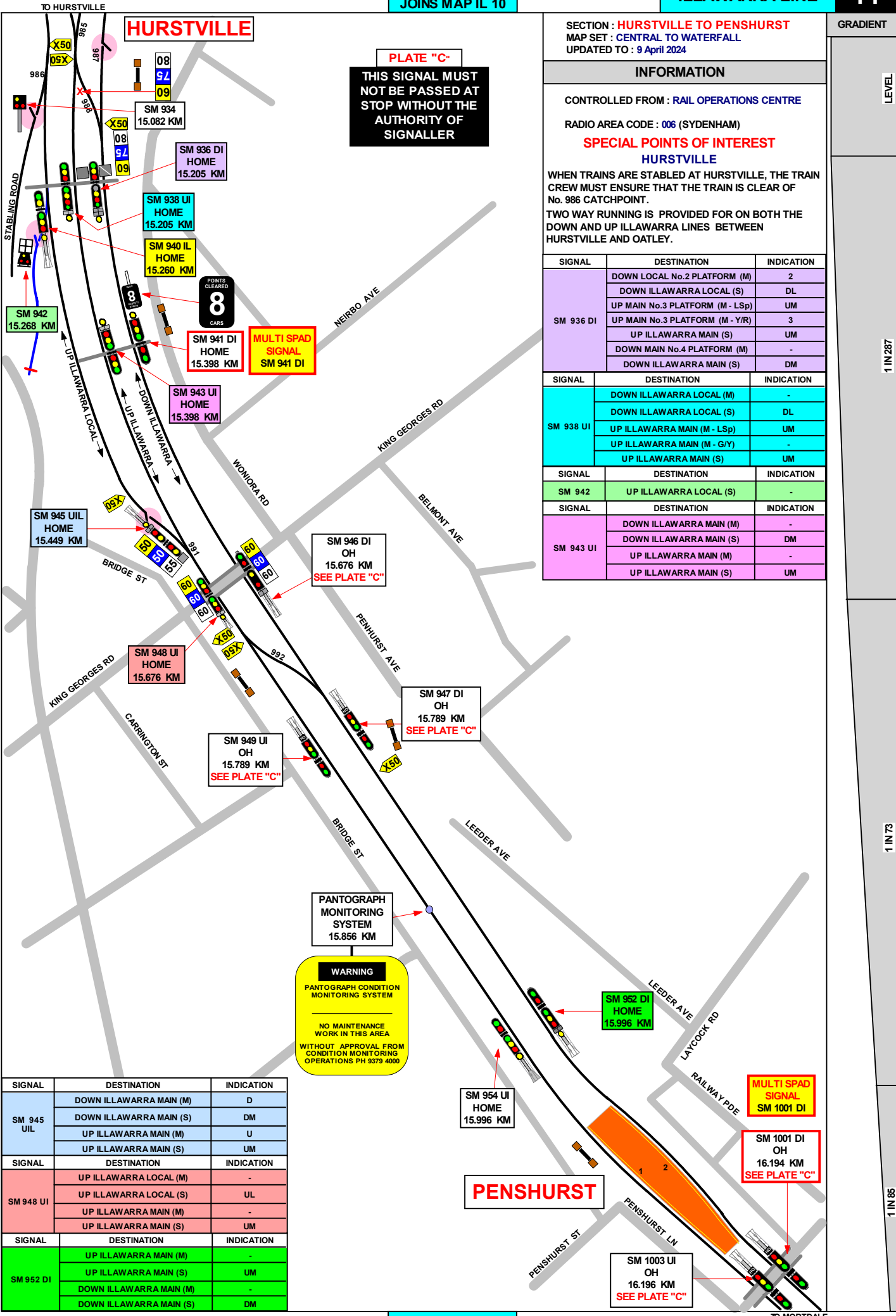
1 IN 60

1 IN 138

1 IN 105

1 IN 120

LEVEL



SECTION : HURSTVILLE TO PENSHURST
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 9 April 2024

GRADIENT

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 006 (SYDENHAM)

SPECIAL POINTS OF INTEREST
 HURSTVILLE

WHEN TRAINS ARE STABLED AT HURSTVILLE, THE TRAIN CREW MUST ENSURE THAT THE TRAIN IS CLEAR OF No. 986 CATCHPOINT.

TWO WAY RUNNING IS PROVIDED FOR ON BOTH THE DOWN AND UP ILLAWARRA LINES BETWEEN HURSTVILLE AND OATLEY.

SIGNAL	DESTINATION	INDICATION
SM 936 DI	DOWN LOCAL No.2 PLATFORM (M)	2
	DOWN ILLAWARRA LOCAL (S)	DL
	UP MAIN No.3 PLATFORM (M - LSp)	UM
	UP MAIN No.3 PLATFORM (M - Y/R)	3
	UP ILLAWARRA MAIN (S)	UM
SM 938 UI	DOWN MAIN No.4 PLATFORM (M)	-
	DOWN ILLAWARRA MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SM 938 UI	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	DL
	UP ILLAWARRA MAIN (M - LSp)	UM
	UP ILLAWARRA MAIN (M - G/Y)	-
SM 943 UI	UP ILLAWARRA MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SM 942	UP ILLAWARRA LOCAL (S)	-

SIGNAL	DESTINATION	INDICATION
SM 943 UI	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SM 945 UIL	DOWN ILLAWARRA MAIN (M)	D
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	U
	UP ILLAWARRA MAIN (S)	UM
SM 948 UI	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	UL
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
SM 952 DI	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM

LEVEL

1 IN 287

1 IN 73

1 IN 85

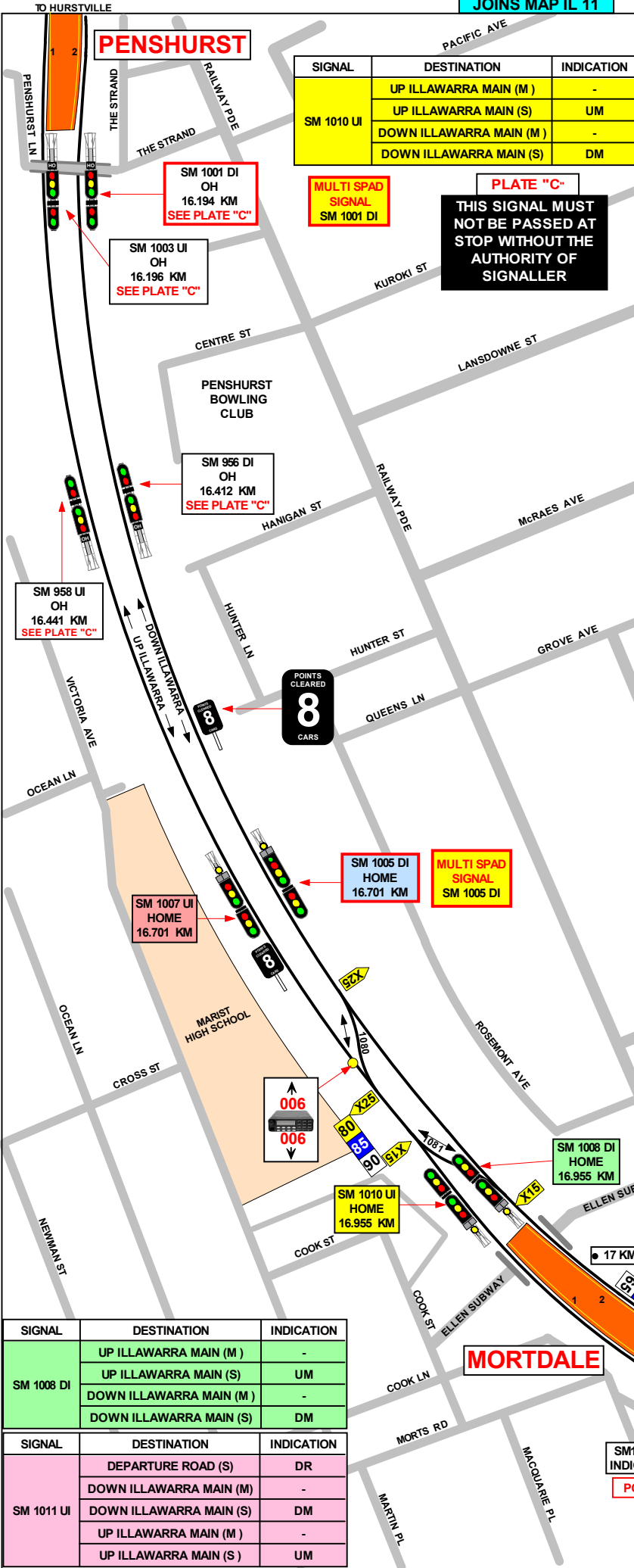
GRADIENT

1 IN 85

1 IN 110

1 IN 80

1 IN 77



SECTION : **PENSHURST TO MORTDALE**
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 17 August 2019

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE
 RADIO AREA CODE : 006 (SYDENHAM)

SPECIAL POINTS OF INTEREST

TWO WAY RUNNING IS PROVIDED FOR ON BOTH THE DOWN AND UP ILLAWARRA LINES BETWEEN HURSTVILLE AND OATLEY.

MORTDALE

MORTDALE

TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN ILLAWARRA LINE	No.1 PLATFORM	RETURN TO THE UP MAIN LINE OR PROCEED EITHER TO THE CAR SIDINGS OR TO OATLEY
	No.2 PLATFORM	RETURN ON THE UP MAIN LINE OR PROCEED TO THE CAR SIDINGS
UP ILLAWARRA LINE	No.1 PLATFORM	RETURN TO THE DOWN MAIN LINE OR THE CAR SIDINGS
	No.2 PLATFORM	RETURN TO THE DOWN MAIN LINE OR TO THE CAR SIDINGS

SIGNAL	DESTINATION	INDICATION
SM 1005 DI	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SM 1007 UI	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SM 1009 DI	ARRIVAL ROAD (S)	AR
	DEPARTURE ROAD (S)	DR
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SM 1008 DI	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SM 1011 UI	DEPARTURE ROAD (S)	DR
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM

SECTION : MORTDALE TO OATLEY
 MAP SET : CENTRAL TO WATERFALL
 PAGE : 1 OF 2
 UPDATED TO : 20 March 2024

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 006 (SYDENHAM)
 252 (MORTDALE M/C)
 993 (MORTDALE M/C)
 VOICE RECORDER

NLA 404 HURSTVILLE

GRADIENT	1 IN 77
	1 IN 292
	1 IN 82
	1 IN 80
	1 IN 77
	1 IN 75

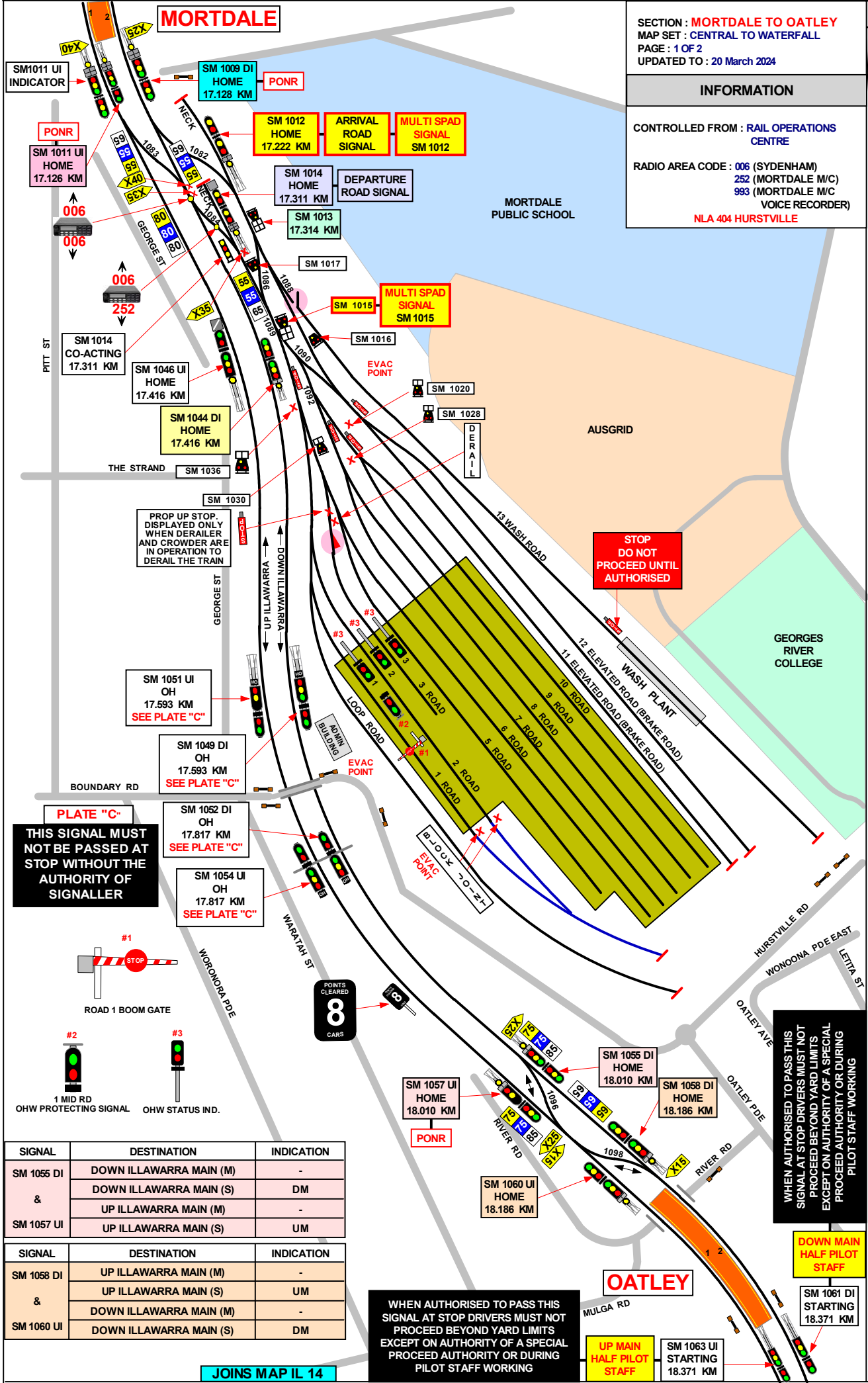


PLATE "C"
 THIS SIGNAL MUST NOT BE PASSED AT STOP WITHOUT THE AUTHORITY OF SIGNALLER

WHEN AUTHORISED TO PASS THIS SIGNAL AT STOP DRIVERS MUST NOT PROCEED BEYOND YARD LIMITS EXCEPT ON AUTHORITY OF A SPECIAL PROCEED AUTHORITY OR DURING PILOT STAFF WORKING

WHEN AUTHORISED TO PASS THIS SIGNAL AT STOP DRIVERS MUST NOT PROCEED BEYOND YARD LIMITS EXCEPT ON AUTHORITY OF A SPECIAL PROCEED AUTHORITY OR DURING PILOT STAFF WORKING

SIGNAL	DESTINATION	INDICATION
SM 1055 DI & SM 1057 UI	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
SM 1058 DI & SM 1060 UI	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SM 1011 UI	DEPARTURE ROAD (S)	DR
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
SIGNAL	DESTINATION	INDICATION
SM 1014	UP ILLAWARRA MAIN (M)	U
	UP ILLAWARRA MAIN (S)	UM
	DOWN ILLAWARRA MAIN (M)	D
	DOWN ILLAWARRA MAIN (S)	DM
	SHUNTING NECK (S)	SN
SIGNAL	DESTINATION	INDICATION
SM 1044	UP ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
	DOWN ILLAWARRA MAIN (S)	DM
SIGNAL	DESTINATION	INDICATION
SM 1015	ELEVATED ROADS (S)	ER
	9 - 10 INSPECTION ROADS (S)	9I
	7 - 8 INSPECTION ROADS (S)	7I
	1 - 6 INSPECTION ROADS (S)	1I

SIGNAL	DESTINATION	INDICATION
SM 1009 DI	ARRIVAL ROAD (S)	AR
	DEPARTURE ROAD (S)	DR
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
SIGNAL	DESTINATION	INDICATION
SM 1012	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	SHUNTING NECK (S)	SN
SIGNAL	DESTINATION	INDICATION
SM 1013	WASH PLANT (S)	WP
	ELEVATED ROADS (S)	ER
	INSPECTION ROAD (S)	IR
SIGNAL	DESTINATION	INDICATION
SM 1020 & SM 1028 & SM 1036 & SM 1030	DEPARTURE ROAD	DR
	ARRIVAL ROAD	AR

SECTION : **MORTDALE TO OATLEY**
 MAP SET : **BONDI TO WATERFALL**
 PAGE : 2 OF 2
 UPDATED TO : 17 August 2019

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **006 (SYDENHAM)**
252 (MORTDALE M/ C)
993 (MORTDALE M/C VOICE RECORDER)

SPECIAL POINTS OF INTEREST

TWO WAY RUNNING IS PROVIDED FOR ON BOTH THE DOWN AND UP ILLAWARRA LINES BETWEEN HURSTVILLE AND OATLEY.

SIGNAL **SM 1014** IS ON THE WRONG SIDE AND IS FOR THE DEPARTURE ROAD.

MORTDALE

MORTDALE TERMINATING TRAINS (UNDER NORMAL CONDITIONS)		
FROM	TERMINATE AT	THEN GO TO
DOWN ILLAWARRA LINE	No. 1 PLATFORM	RETURN TO THE UP MAIN LINE OR PROCEED EITHER TO THE CAR SIDINGS OR TO OATLEY
	No. 2 PLATFORM	RETURN ON THE UP MAIN LINE OR PROCEED TO THE CAR SIDINGS
UP ILLAWARRA LINE	No. 1 PLATFORM	RETURN TO THE DOWN MAIN LINE OR THE CAR SIDINGS
	No. 2 PLATFORM	RETURN TO THE DOWN MAIN LINE OR TO THE CAR SIDINGS

PONR

POINTS OF NO RETURN

SIGNAL No.	LOCATION	DESTINATIONS
SM 1009 DI	COUNTRY END OF MORTDALE PLATFORM No. 2	MORTDALE MAINTENANCE CENTRE
SM 1011 UI	COUNTRY END OF MORTDALE PLATFORM No. 1	MORTDALE MAINTENANCE CENTRE

OATLEY

OATLEY TERMINATING TRAINS (UNDER NORMAL CONDITIONS)		
FROM	TERMINATE AT	THEN GO TO
DOWN ILLAWARRA LINE	No.1 PLATFORM	RETURN ON THE UP MAIN OR THE DOWN MAIN LINE
	No.2 PLATFORM	RETURN ON THE UP OR THE DOWN MAIN LINE TO MORTDALE

PONR

POINTS OF NO RETURN

SIGNAL No.	LOCATION	DESTINATIONS
SM 1057 UI	APPROXIMATELY 170 METRES SYDNEY SIDE OF OATLEY PLATFORM	DOWN ILLAWARRA

JOINS MAP IL 13

TO MORTDALE

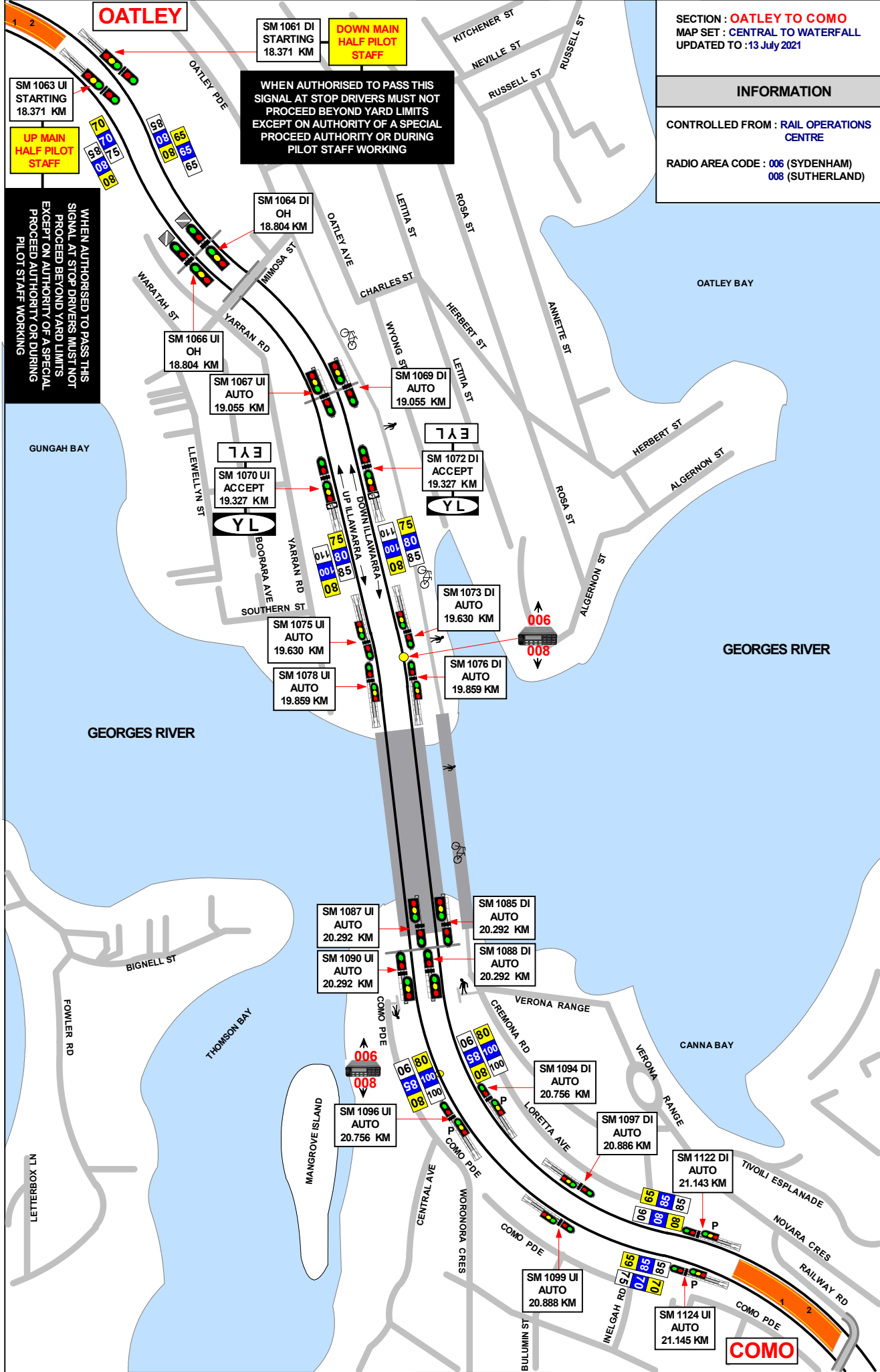
SECTION : OATLEY TO COMO
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 13 July 2021

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 006 (SYDENHAM)
 008 (SUTHERLAND)

GRADIENT
1 IN 75
1 IN 88
1 IN 84
1 IN 80
1 IN 174
LEVEL
1 IN 69
1 IN 44



OATLEY

SM 1063 UI STARTING 18.371 KM

UP MAIN HALF PILOT STAFF

WHEN AUTHORISED TO PASS THIS SIGNAL AT STOP DRIVERS MUST NOT PROCEED BEYOND YARD LIMITS EXCEPT ON AUTHORITY OF A SPECIAL PILOT STAFF WORKING

SM 1061 DI STARTING 18.371 KM

DOWN MAIN HALF PILOT STAFF

WHEN AUTHORISED TO PASS THIS SIGNAL AT STOP DRIVERS MUST NOT PROCEED BEYOND YARD LIMITS EXCEPT ON AUTHORITY OF A SPECIAL PILOT STAFF WORKING

WHEN AUTHORISED TO PASS THIS SIGNAL AT STOP DRIVERS MUST NOT PROCEED BEYOND YARD LIMITS EXCEPT ON AUTHORITY OF A SPECIAL PILOT STAFF WORKING

JOINS MAP IL 15

TO JANNALI

TO OATLEY

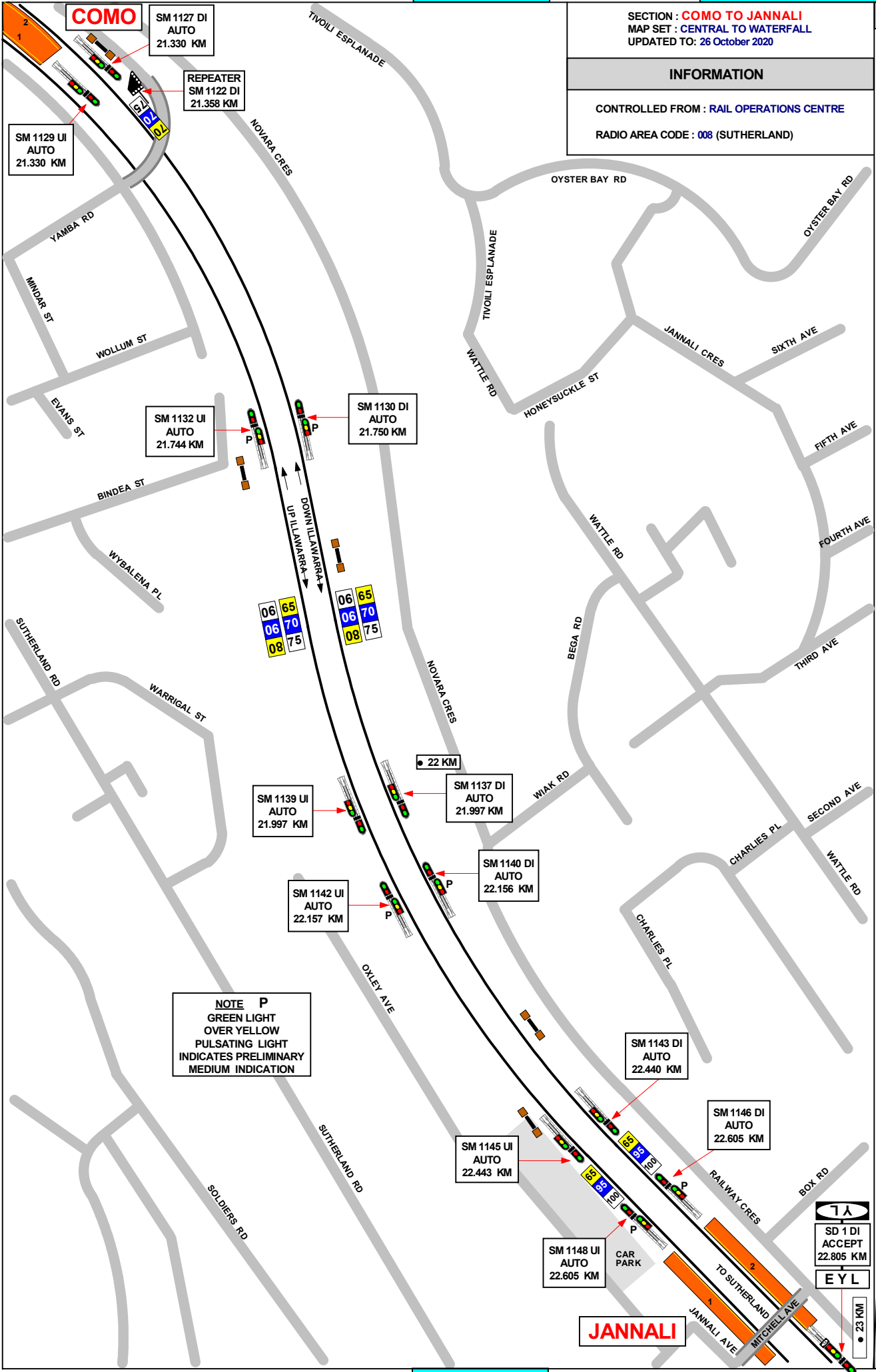
COMO

SECTION : **COMO TO JANNALI**
 MAP SET : **CENTRAL TO WATERFALL**
 UPDATED TO: 26 October 2020

GRADIENT

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **008 (SUTHERLAND)**



NOTE P
 GREEN LIGHT
 OVER YELLOW
 PULSATING LIGHT
 INDICATES PRELIMINARY
 MEDIUM INDICATION

JANNALI

1 IN 44

1 IN 52

1 IN 43

1 IN 42

JOINS MAP IL 15

SECTION : **SUTHERLAND TO LOFTUS**
 MAP SET : **CENTRAL TO WATERFALL**
 UPDATED TO : 8 January 2024

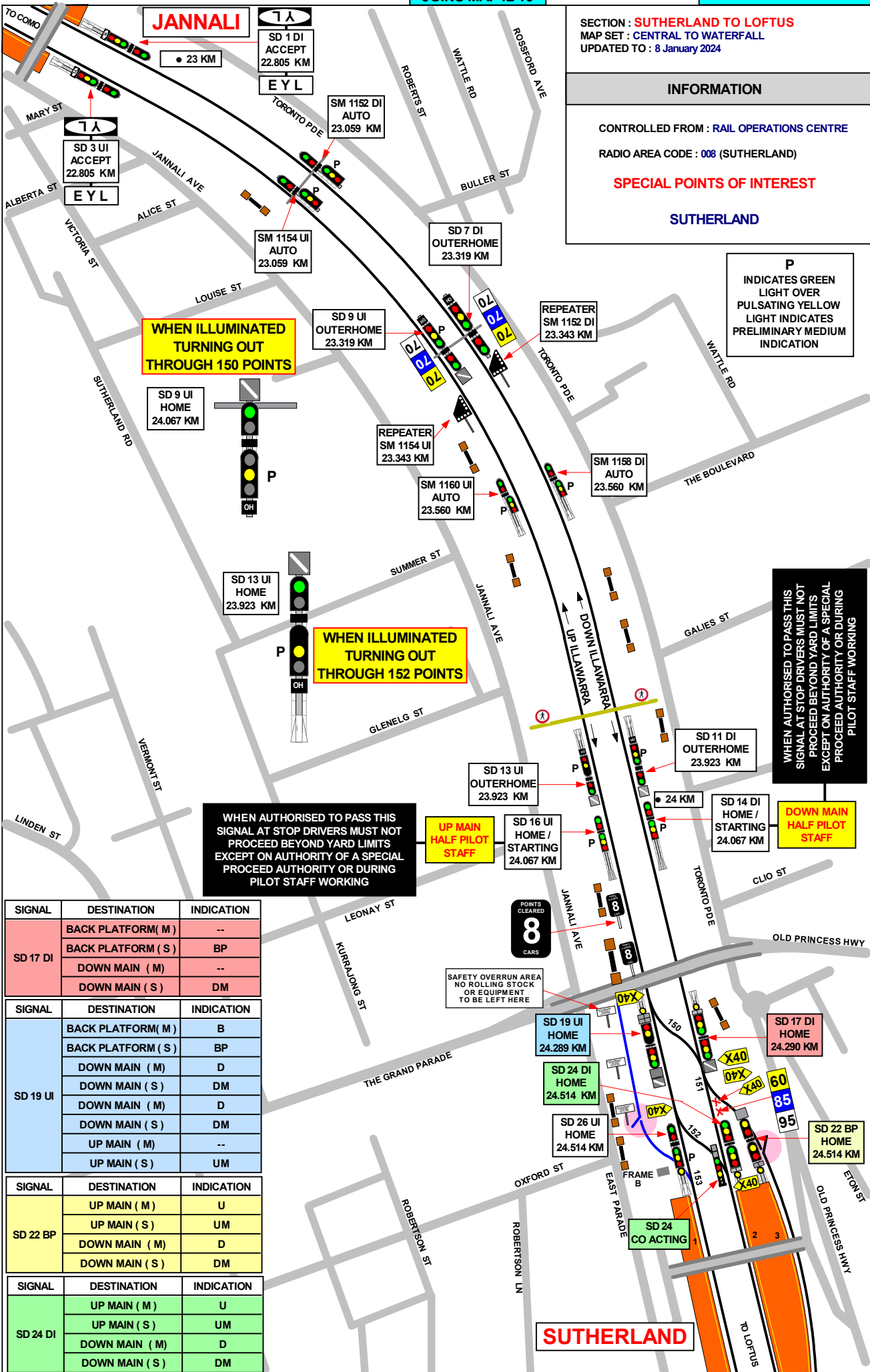
INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **008 (SUTHERLAND)**

SPECIAL POINTS OF INTEREST

SUTHERLAND

GRADIENT
1 IN 42
1 IN 40
1 IN 43
1 IN 44
1 IN 42
1 IN 44
1 IN 660



WHEN ILLUMINATED TURNING OUT THROUGH 150 POINTS

WHEN ILLUMINATED TURNING OUT THROUGH 152 POINTS

WHEN AUTHORISED TO PASS THIS SIGNAL AT STOP DRIVERS MUST NOT PROCEED BEYOND YARD LIMITS EXCEPT ON AUTHORITY OF A SPECIAL PROCEED AUTHORITY OR DURING PILOT STAFF WORKING

WHEN AUTHORISED TO PASS THIS SIGNAL AT STOP DRIVERS MUST NOT PROCEED BEYOND YARD LIMITS EXCEPT ON AUTHORITY OF A SPECIAL PROCEED AUTHORITY OR DURING PILOT STAFF WORKING

DOWN MAIN HALF PILOT STAFF

SIGNAL	DESTINATION	INDICATION
SD 17 DI	BACK PLATFORM (M)	--
	BACK PLATFORM (S)	BP
	DOWN MAIN (M)	--
	DOWN MAIN (S)	DM

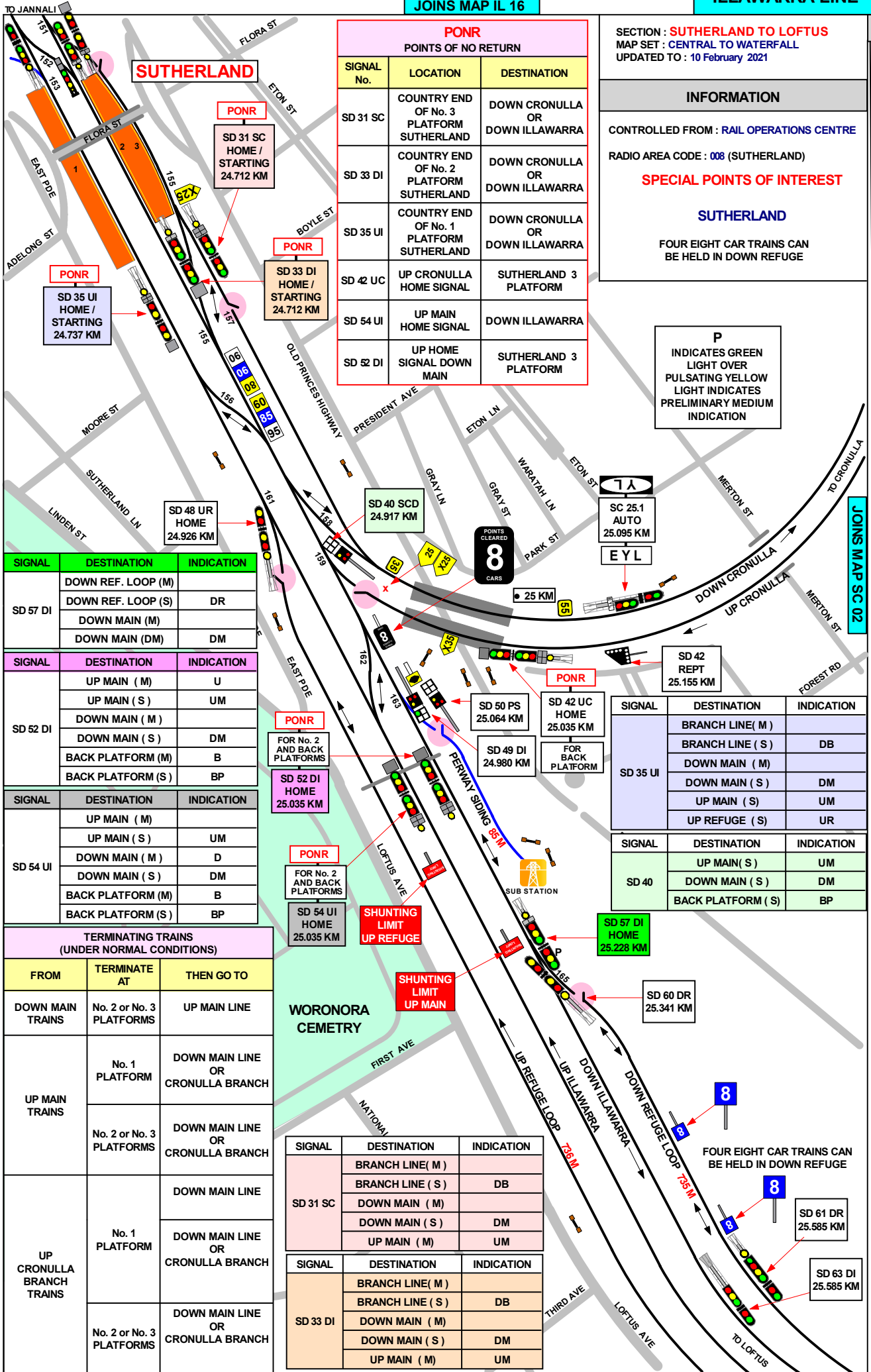
SIGNAL	DESTINATION	INDICATION
SD 19 UI	BACK PLATFORM (M)	B
	BACK PLATFORM (S)	BP
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	UP MAIN (M)	--
UP MAIN (S)	UM	

SIGNAL	DESTINATION	INDICATION
SD 22 BP	UP MAIN (M)	U
	UP MAIN (S)	UM
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SD 24 DI	UP MAIN (M)	U
	UP MAIN (S)	UM
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM

SUTHERLAND

JOINS MAP IL 17



PONR POINTS OF NO RETURN		
SIGNAL No.	LOCATION	DESTINATION
SD 31 SC	COUNTRY END OF No. 3 PLATFORM SUTHERLAND	DOWN CRONULLA OR DOWN ILLAWARRA
SD 33 DI	COUNTRY END OF No. 2 PLATFORM SUTHERLAND	DOWN CRONULLA OR DOWN ILLAWARRA
SD 35 UI	COUNTRY END OF No. 1 PLATFORM SUTHERLAND	DOWN CRONULLA OR DOWN ILLAWARRA
SD 42 UC	UP CRONULLA HOME SIGNAL	SUTHERLAND 3 PLATFORM
SD 54 UI	UP MAIN HOME SIGNAL	DOWN ILLAWARRA
SD 52 DI	UP HOME SIGNAL DOWN MAIN	SUTHERLAND 3 PLATFORM

SECTION : SUTHERLAND TO LOFTUS
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 10 February 2021

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 008 (SUTHERLAND)

SPECIAL POINTS OF INTEREST

SUTHERLAND

FOUR EIGHT CAR TRAINS CAN BE HELD IN DOWN REFUGE

P

INDICATES GREEN LIGHT OVER
 PULSATING YELLOW LIGHT INDICATES PRELIMINARY MEDIUM INDICATION

SIGNAL	DESTINATION	INDICATION
SD 57 DI	DOWN REF. LOOP (M)	
	DOWN REF. LOOP (S)	DR
	DOWN MAIN (M)	
	DOWN MAIN (DM)	DM

SIGNAL	DESTINATION	INDICATION
SD 52 DI	UP MAIN (M)	U
	UP MAIN (S)	UM
	DOWN MAIN (M)	
	DOWN MAIN (S)	DM
	BACK PLATFORM (M)	B
	BACK PLATFORM (S)	BP

SIGNAL	DESTINATION	INDICATION
SD 54 UI	UP MAIN (M)	
	UP MAIN (S)	UM
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	BACK PLATFORM (M)	B
	BACK PLATFORM (S)	BP

TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN MAIN TRAINS	No. 2 or No. 3 PLATFORMS	UP MAIN LINE
UP MAIN TRAINS	No. 1 PLATFORM	DOWN MAIN LINE OR CRONULLA BRANCH
	No. 2 or No. 3 PLATFORMS	DOWN MAIN LINE OR CRONULLA BRANCH
UP CRONULLA BRANCH TRAINS	No. 1 PLATFORM	DOWN MAIN LINE
		DOWN MAIN LINE OR CRONULLA BRANCH
	No. 2 or No. 3 PLATFORMS	DOWN MAIN LINE OR CRONULLA BRANCH

SIGNAL	DESTINATION	INDICATION
SD 31 SC	BRANCH LINE (M)	
	BRANCH LINE (S)	DB
	DOWN MAIN (M)	
	DOWN MAIN (S)	DM
	UP MAIN (M)	UM

SIGNAL	DESTINATION	INDICATION
SD 33 DI	BRANCH LINE (M)	
	BRANCH LINE (S)	DB
	DOWN MAIN (M)	
	DOWN MAIN (S)	DM
	UP MAIN (M)	UM

SIGNAL	DESTINATION	INDICATION
SD 35 UI	BRANCH LINE (M)	
	BRANCH LINE (S)	DB
	DOWN MAIN (M)	
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM
	UP REFUGE (S)	UR

SIGNAL	DESTINATION	INDICATION
SD 40	UP MAIN (S)	UM
	DOWN MAIN (S)	DM
	BACK PLATFORM (S)	BP

SIGNAL	DESTINATION	INDICATION
SD 57 DI HOME		
SD 60 DR		

SIGNAL	DESTINATION	INDICATION
SD 61 DR		
SD 63 DI		

FOUR EIGHT CAR TRAINS CAN BE HELD IN DOWN REFUGE

GRADIENT

1 IN 660

1 IN 330

SECTION : **SUTHERLAND TO LOFTUS**
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 10 May 2022

GRADIENT

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 008 (SUTHERLAND)

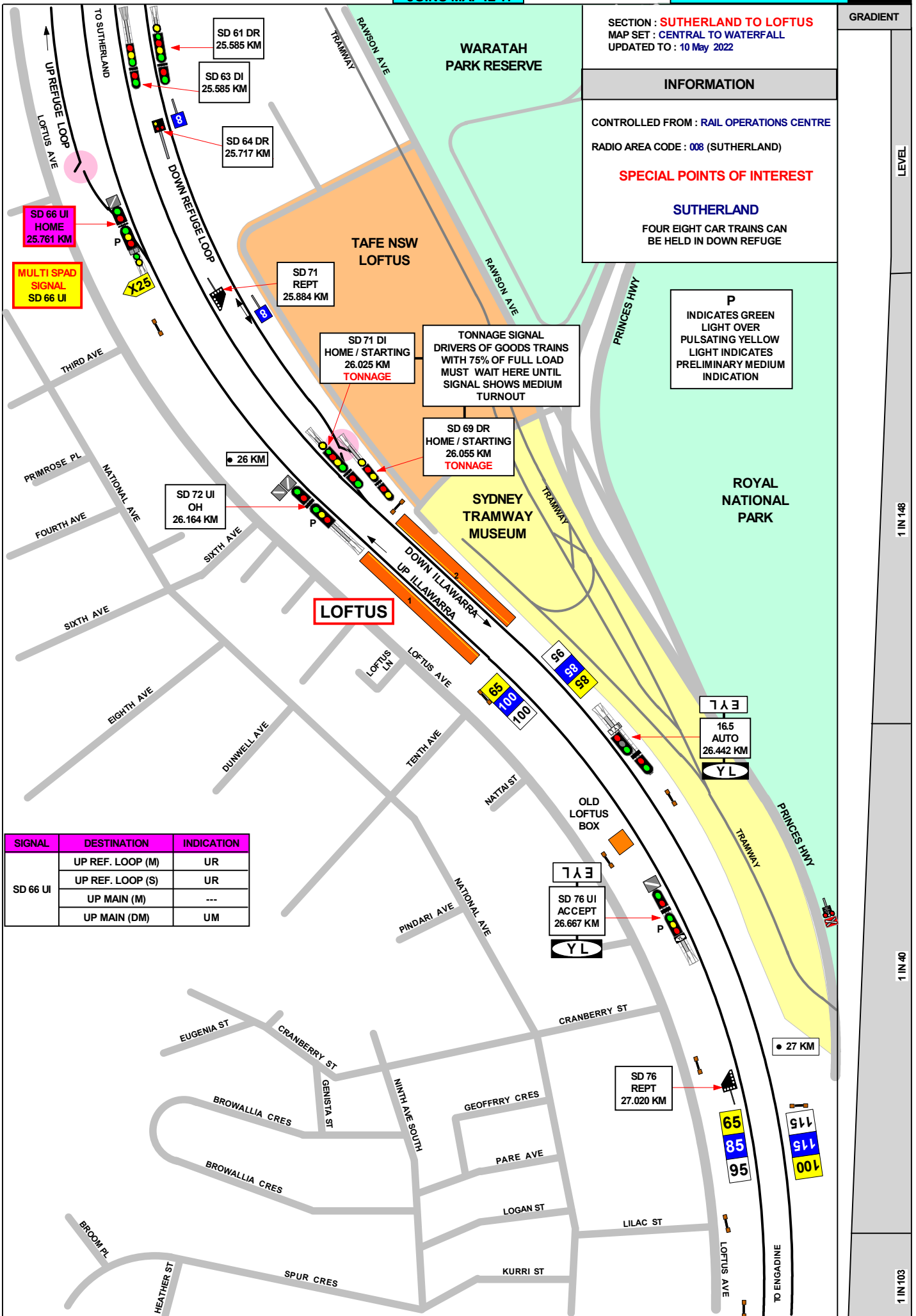
SPECIAL POINTS OF INTEREST

SUTHERLAND

FOUR EIGHT CAR TRAINS CAN BE HELD IN DOWN REFUGE

P
 INDICATES GREEN LIGHT OVER PULSATING YELLOW LIGHT INDICATES PRELIMINARY MEDIUM INDICATION

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



SIGNAL	DESTINATION	INDICATION
SD 66 UI	UP REF. LOOP (M)	UR
	UP REF. LOOP (S)	UR
	UP MAIN (M)	---
	UP MAIN (DM)	UM

LEVEL

1 IN 148

1 IN 40

1 IN 103

SECTION : **LOFTUS TO ENGADINE**
MAP SET : **CENTRAL TO WATERFALL**
UPDATED TO : 17 August 2019

GRADIENT

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
RADIO AREA CODE : **008 (SUTHERLAND)**

P
INDICATES GREEN
LIGHT OVER
PULSATING YELLOW
LIGHT INDICATES
PRELIMINARY MEDIUM
INDICATION

WARNING

WAYSIDE DETECTION
SYSTEM
ENGADINE 29.482 kms

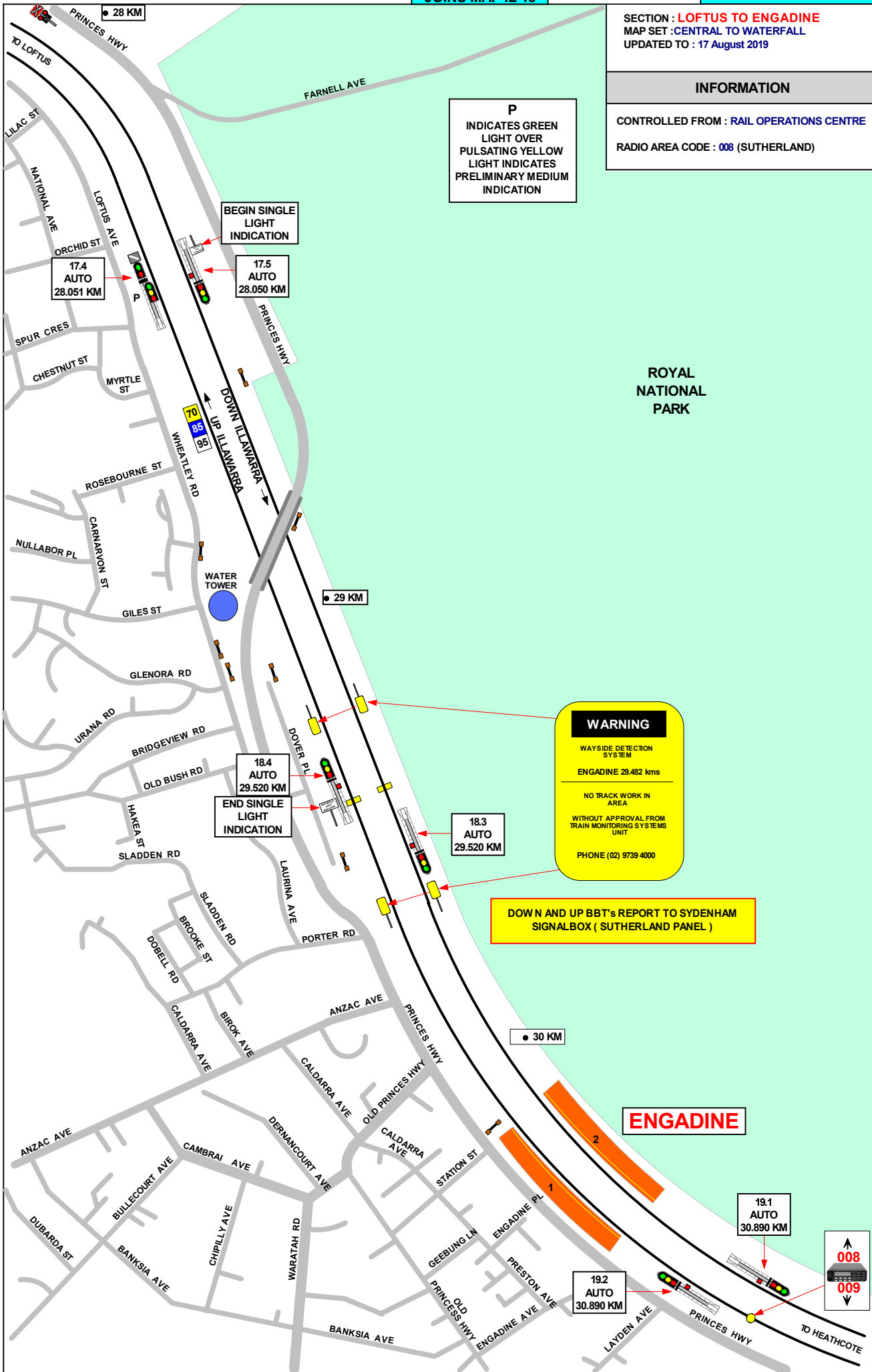
NO TRACK WORK IN
AREA

WITHOUT APPROVAL FROM
TRAIN MONITORING SYSTEMS
UNIT

PHONE (02) 9739 4000

**DOWN AND UP BBT'S REPORT TO SYDENHAM
SIGNALBOX (SUTHERLAND PANEL)**

ENGADINE



1 IN 103

1 IN 97

1 IN 50

1 IN 300

1 IN 127

1 IN 50

1 IN 27

ENGADINE

19.2 AUTO
30.890 KM

19.1 AUTO
30.890 KM

31 KM

ROYAL NATIONAL PARK

SECTION : **ENGADINE TO HEATHCOTE**
MAP SET : CENTRAL TO WATERFALL
UPDATED TO : 17 August 2019

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE / WATERFALL
RADIO AREA CODE : 008 (SUTHERLAND)
009 (WATERFALL)

GRADIENT

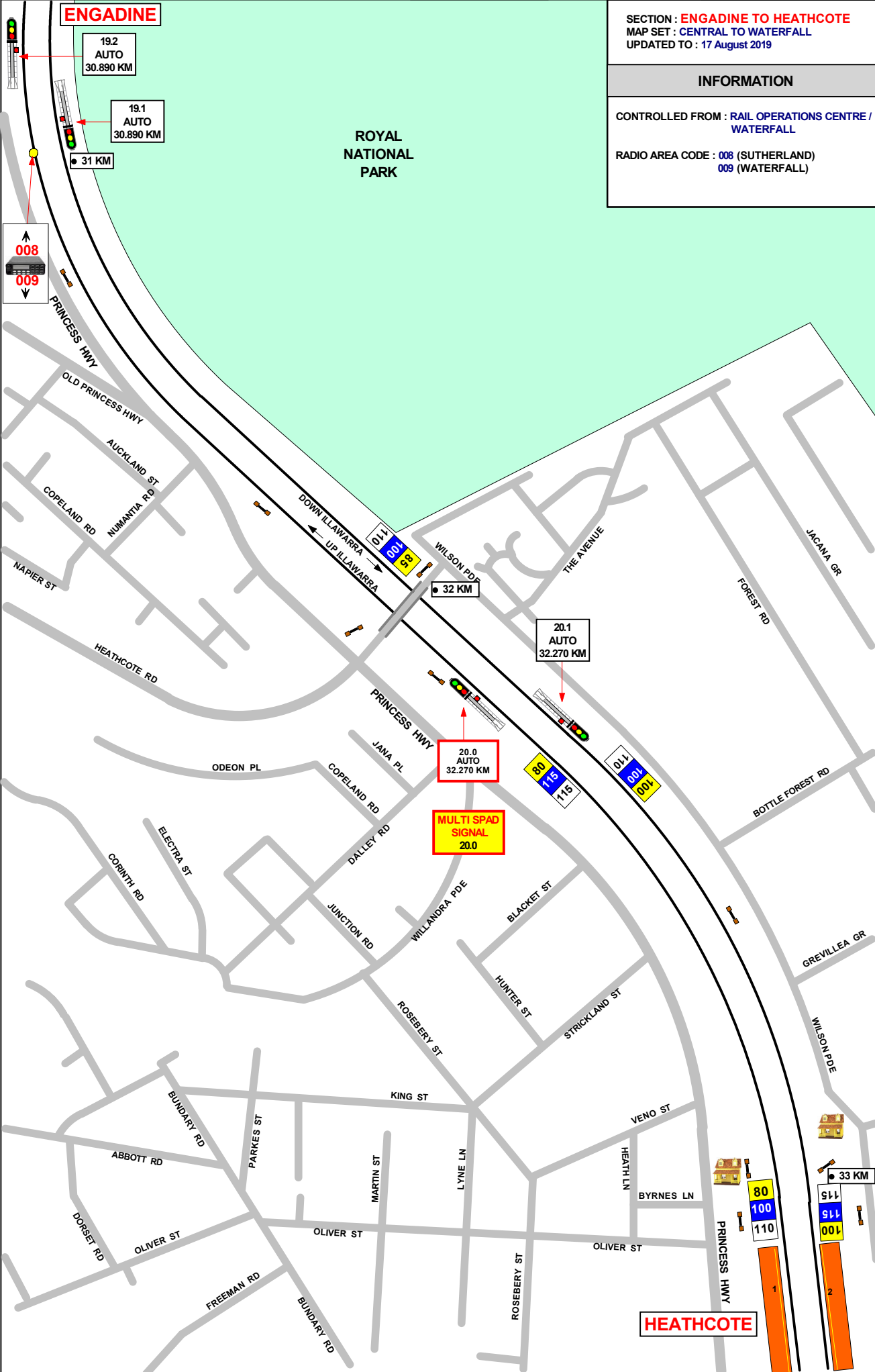
1 IN 227

1 IN 88

1 IN 132

1 IN 240

1 IN 480



SECTION : **HEATHCOTE TO WATERFALL**
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 13 April 2023

GRADIENT

INFORMATION

CONTROLLED FROM : **WATERFALL**
 RADIO AREA CODE : **009 (WATERFALL)**
SPECIAL POINTS OF INTEREST

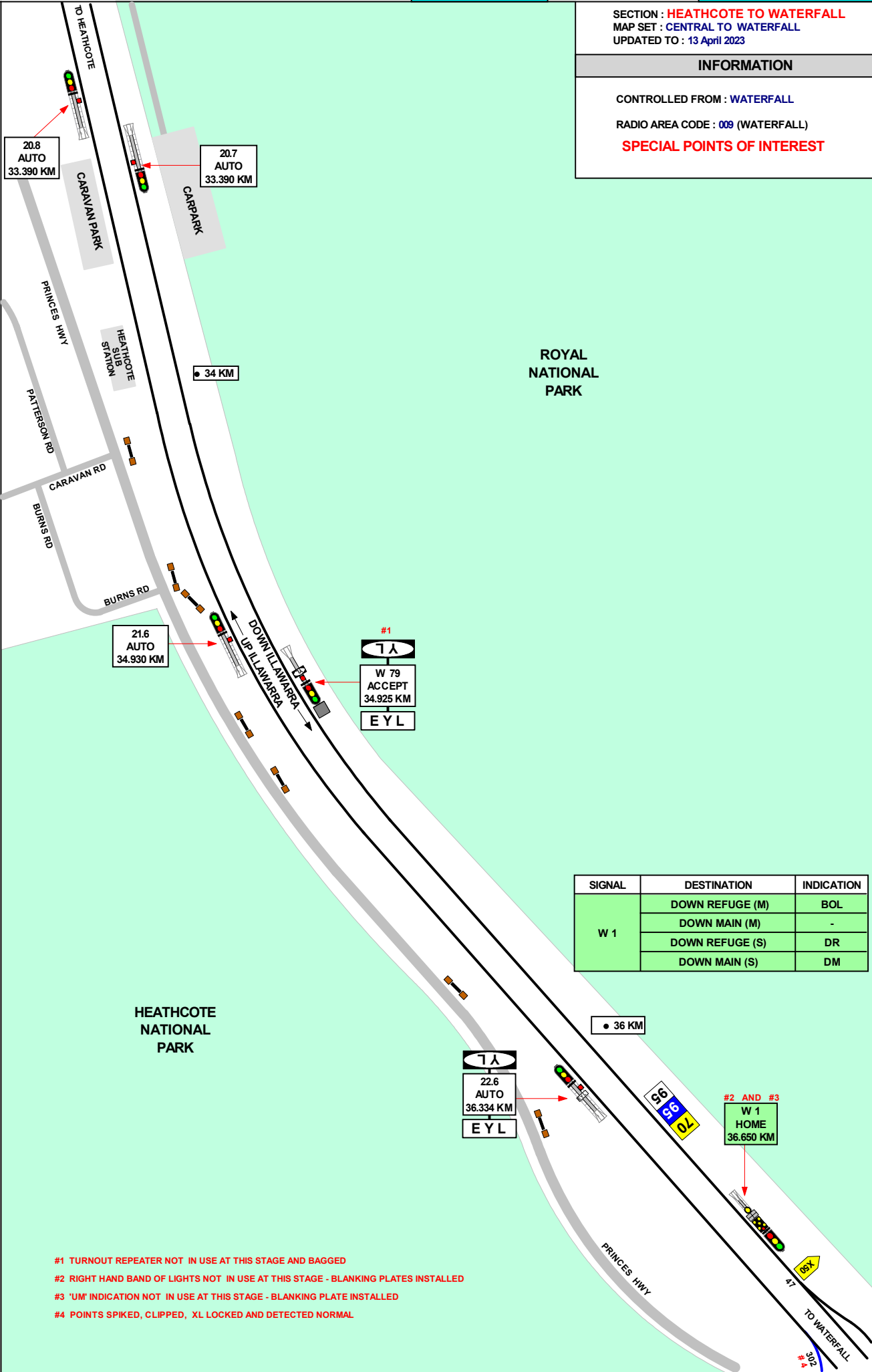
1 IN 480

1 IN 100

1 IN 76

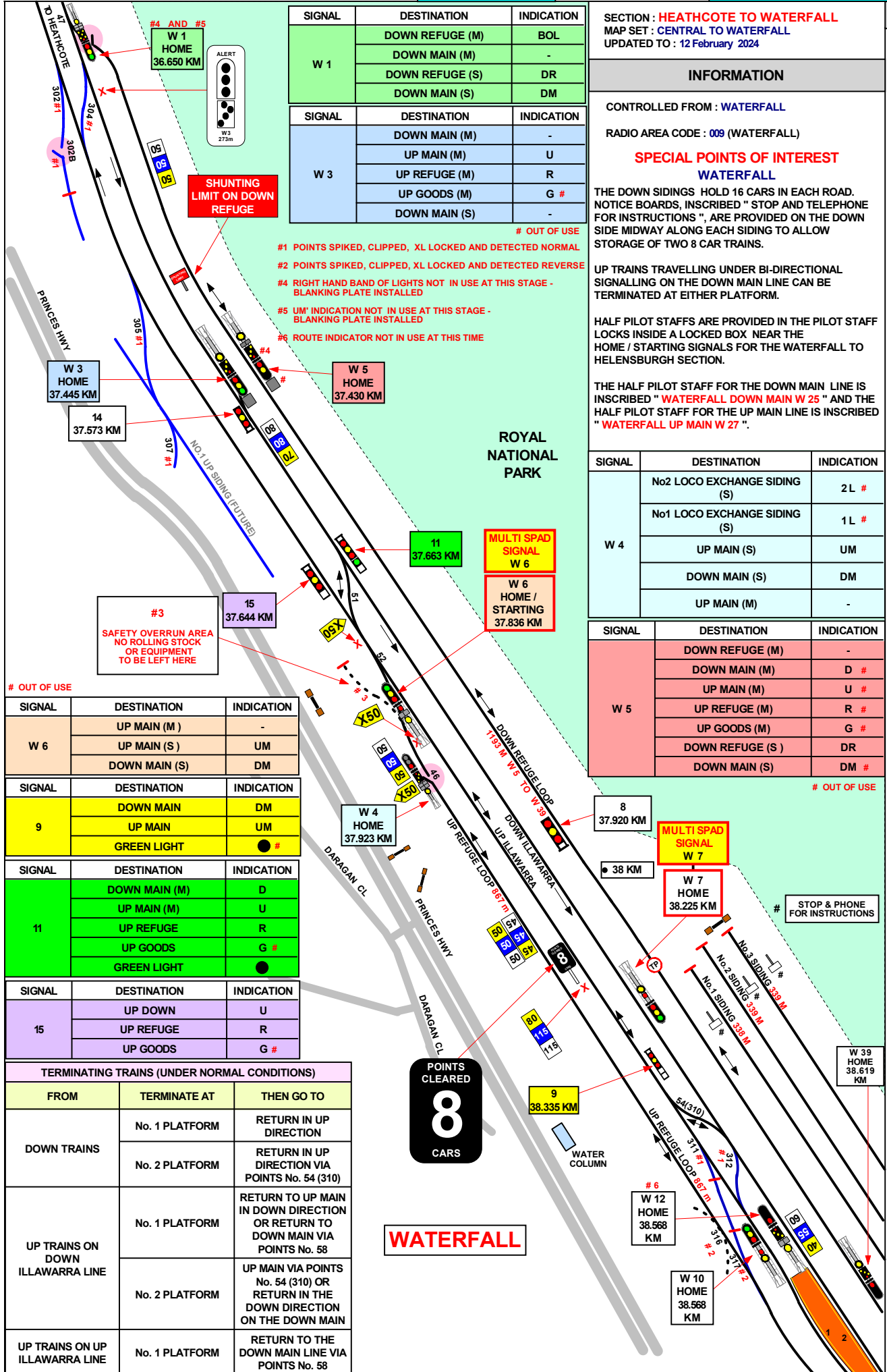
LEVEL

1 IN 90



SIGNAL	DESTINATION	INDICATION
W 1	DOWN REFUGE (M)	BOL
	DOWN MAIN (M)	-
	DOWN REFUGE (S)	DR
	DOWN MAIN (S)	DM

- #1 TURNOUT REPEATER NOT IN USE AT THIS STAGE AND BAGGED
- #2 RIGHT HAND BAND OF LIGHTS NOT IN USE AT THIS STAGE - BLANKING PLATES INSTALLED
- #3 'UM' INDICATION NOT IN USE AT THIS STAGE - BLANKING PLATE INSTALLED
- #4 POINTS SPIKED, CLIPPED, XL LOCKED AND DETECTED NORMAL



SIGNAL	DESTINATION	INDICATION
W 1	DOWN REFUGE (M)	BOL
	DOWN MAIN (M)	-
	DOWN REFUGE (S)	DR
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
W 3	DOWN MAIN (M)	-
	UP MAIN (M)	U
	UP REFUGE (M)	R
	UP GOODS (M)	G #
	DOWN MAIN (S)	-

SECTION : **HEATHCOTE TO WATERFALL**
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 12 February 2024

INFORMATION

CONTROLLED FROM : WATERFALL
 RADIO AREA CODE : 009 (WATERFALL)

SPECIAL POINTS OF INTEREST
WATERFALL

THE DOWN SIDINGS HOLD 16 CARS IN EACH ROAD. NOTICE BOARDS, INSCRIBED "STOP AND TELEPHONE FOR INSTRUCTIONS", ARE PROVIDED ON THE DOWN SIDE MIDWAY ALONG EACH SIDING TO ALLOW STORAGE OF TWO 8 CAR TRAINS.

UP TRAINS TRAVELLING UNDER BI-DIRECTIONAL SIGNALLING ON THE DOWN MAIN LINE CAN BE TERMINATED AT EITHER PLATFORM.

HALF PILOT STAFFS ARE PROVIDED IN THE PILOT STAFF LOCKS INSIDE A LOCKED BOX NEAR THE HOME / STARTING SIGNALS FOR THE WATERFALL TO HELENSBURGH SECTION.

THE HALF PILOT STAFF FOR THE DOWN MAIN LINE IS INSCRIBED "WATERFALL DOWN MAIN W 25" AND THE HALF PILOT STAFF FOR THE UP MAIN LINE IS INSCRIBED "WATERFALL UP MAIN W 27".

SIGNAL	DESTINATION	INDICATION
W 4	No2 LOCO EXCHANGE SIDING (S)	2L #
	No1 LOCO EXCHANGE SIDING (S)	1L #
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM
	UP MAIN (M)	-

SIGNAL	DESTINATION	INDICATION
W 5	DOWN REFUGE (M)	-
	DOWN MAIN (M)	D #
	UP MAIN (M)	U #
	UP REFUGE (M)	R #
	UP GOODS (M)	G #
	DOWN REFUGE (S)	DR
	DOWN MAIN (S)	DM #

OUT OF USE

SIGNAL	DESTINATION	INDICATION
W 6	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
9	DOWN MAIN	DM
	UP MAIN	UM
	GREEN LIGHT	● #

SIGNAL	DESTINATION	INDICATION
11	DOWN MAIN (M)	D
	UP MAIN (M)	U
	UP REFUGE (M)	R
	UP GOODS (M)	G #
	GREEN LIGHT	●

SIGNAL	DESTINATION	INDICATION
15	UP DOWN	U
	UP REFUGE	R
	UP GOODS	G #

TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN TRAINS	No. 1 PLATFORM	RETURN IN UP DIRECTION
	No. 2 PLATFORM	RETURN IN UP DIRECTION VIA POINTS No. 54 (310)
UP TRAINS ON DOWN ILLAWARRA LINE	No. 1 PLATFORM	RETURN TO UP MAIN IN DOWN DIRECTION OR RETURN TO DOWN MAIN VIA POINTS No. 58
	No. 2 PLATFORM	UP MAIN VIA POINTS No. 54 (310) OR RETURN IN THE DOWN DIRECTION ON THE DOWN MAIN
UP TRAINS ON UP ILLAWARRA LINE	No. 1 PLATFORM	RETURN TO THE DOWN MAIN LINE VIA POINTS No. 58

POINTS CLEARED
8
 CARS

WATERFALL



SECTION : **HEATHCOTE TO WATERFALL**
 MAP SET **CENTRAL TO NOWRA**
 PAGE : 1 OF 2
 UPDATED TO : 13 April 2023

INFORMATION

CONTROLLED FROM : **WATERFALL**

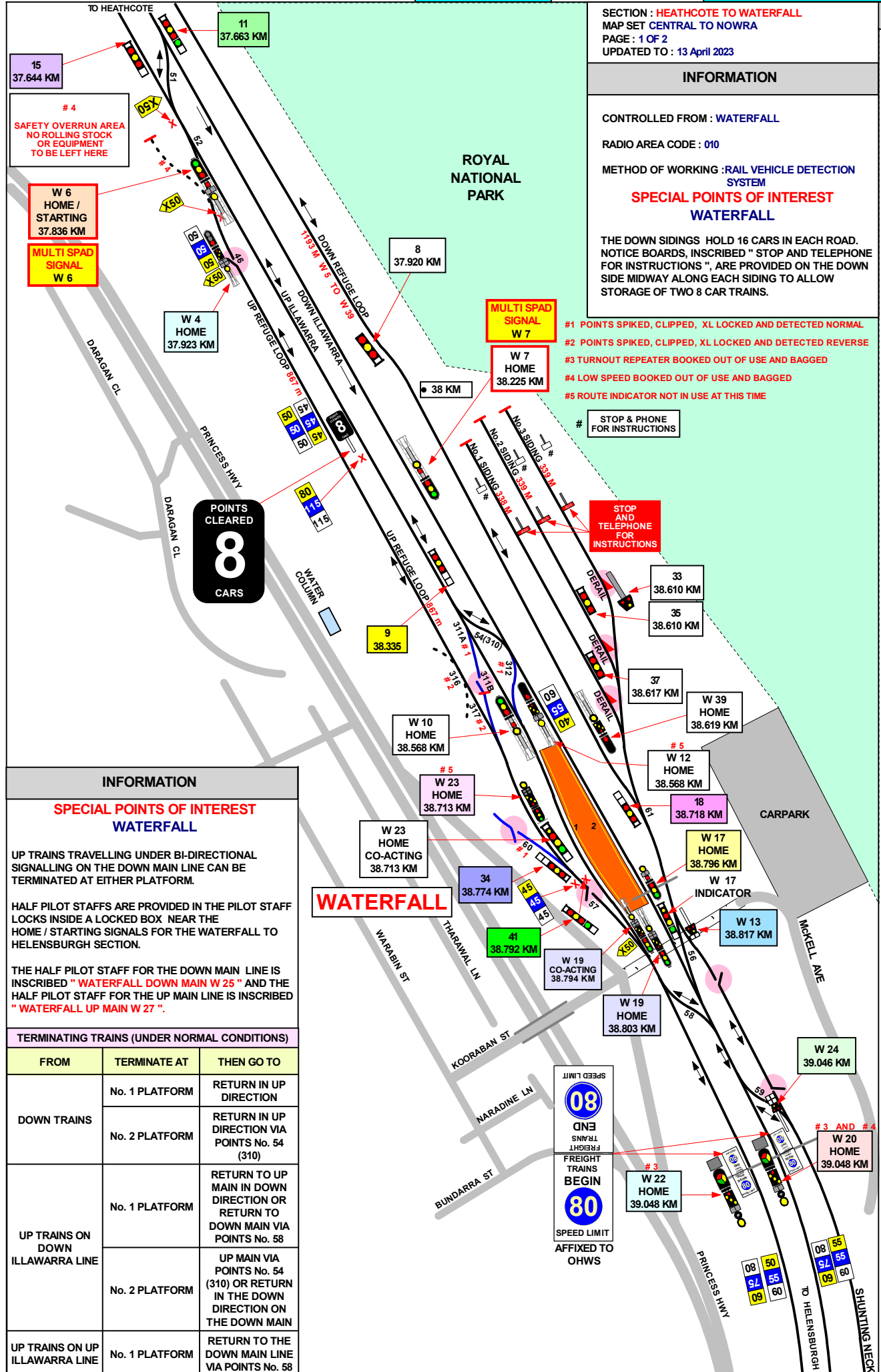
RADIO AREA CODE : 010

METHOD OF WORKING : **RAIL VEHICLE DETECTION SYSTEM**

SPECIAL POINTS OF INTEREST WATERFALL

THE DOWN SIDINGS HOLD 16 CARS IN EACH ROAD. NOTICE BOARDS, INSCRIBED " STOP AND TELEPHONE FOR INSTRUCTIONS ", ARE PROVIDED ON THE DOWN SIDE MIDWAY ALONG EACH SIDING TO ALLOW STORAGE OF TWO 8 CAR TRAINS.

GRADIENT
1 IN 220
1 IN 120
1 IN 187
1 IN 165
1 IN 88



INFORMATION

SPECIAL POINTS OF INTEREST WATERFALL

UP TRAINS TRAVELLING UNDER BI-DIRECTIONAL SIGNALLING ON THE DOWN MAIN LINE CAN BE TERMINATED AT EITHER PLATFORM.

HALF PILOT STAFFS ARE PROVIDED IN THE PILOT STAFF LOCKS INSIDE A LOCKED BOX NEAR THE HOME / STARTING SIGNALS FOR THE WATERFALL TO HELENSBURGH SECTION.

THE HALF PILOT STAFF FOR THE DOWN MAIN LINE IS INSCRIBED " **WATERFALL DOWN MAIN W 25** " AND THE HALF PILOT STAFF FOR THE UP MAIN LINE IS INSCRIBED " **WATERFALL UP MAIN W 27** ".

TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN TRAINS	No. 1 PLATFORM	RETURN IN UP DIRECTION
	No. 2 PLATFORM	RETURN IN UP DIRECTION VIA POINTS No. 54 (310)
UP TRAINS ON DOWN ILLAWARRA LINE	No. 1 PLATFORM	RETURN TO UP MAIN IN DOWN DIRECTION OR RETURN TO DOWN MAIN VIA POINTS No. 58
	No. 2 PLATFORM	UP MAIN VIA POINTS No. 54 (310) OR RETURN IN THE DOWN DIRECTION ON THE DOWN MAIN
UP TRAINS ON UP ILLAWARRA LINE	No. 1 PLATFORM	RETURN TO THE DOWN MAIN LINE VIA POINTS No. 58

SPEED LIMIT

08

END

FREIGHT TRAINS BEGIN

80

SPEED LIMIT AFFIXED TO OHWS

SECTION : **HEATHCOTE TO WATERFALL**
 MAP SET : **CENTRAL TO WATERFALL**
 PAGE : 2 OF 2
 UPDATED TO : 13 April 2023

OUT OF USE

SIGNAL	DESTINATION	INDICATION
W 6	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
9	DOWN MAIN	DM
	UP MAIN	UM
	GREEN LIGHT	● #

SIGNAL	DESTINATION	INDICATION
11	DOWN MAIN (M)	D
	UP MAIN (M)	U
	UP REFUGE	R
	UP GOODS	G #
	GREEN LIGHT	●

SIGNAL	DESTINATION	INDICATION
13	SHUNTING NECK	S
	DOWN MAIN	DM

SIGNAL	DESTINATION	INDICATION
15	UP DOWN	U
	UP REFUGE	R
	UP GOODS	G #

SIGNAL	DESTINATION	INDICATION
W 17	SHUNTING NECK (S)	S
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
18	DOWN REFUGE	DR
	DOWN SIDINGS	DS

SIGNAL	DESTINATION	INDICATION
W 19	SHUNTING NECK (S)	S
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
W 20	UP GOODS LOOP (M)	G #
	UP REFUGE (M)	R
	UP MAIN (M)	U
	DOWN MAIN (M)	-
	UP REFUGE (S)	UR
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM
	DOWN REFUGE (S)	DR

SIGNAL	DESTINATION	INDICATION
W 22	UP GOODS (M)	G #
	UP REFUGE (M)	R
	UP MAIN (M)	-
	UP REFUGE (S)	UR
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
24	UP REFUGE	UR
	UP MAIN	UM
	DOWN MAIN	DM
	DOWN REFUGE	DR

SIGNAL	DESTINATION	INDICATION
34	UP REFUGE	UR #
	UP GOODS	UG
	GREEN LIGHT	● #

SIGNAL	DESTINATION	INDICATION
41	SHUNTING NECK	S
	DOWN MAIN	D
	UP MAIN	U

SIGNAL	DESTINATION	INDICATION
23	DOWN MAIN	UR
	UP MAIN	-
	UP REFUGE	●●●

LENGTHS OF ROADS (1 SUBURBAN CAR = APPROX 20.4 METRES)			
TITLE	FROM	TO	METRES
DOWN REFUGE LOOP	W 1 SIGNAL	W5 SIGNAL	632
	W5 SIGNAL	W 39 SIGNAL	1193
	W1 SIGNAL	W 39 SIGNAL	1825
No. 1 SIDING	BUFFER STOP	37 SIGNAL	338
No. 2 SIDING	BUFFER STOP	36 SIGNAL	339
No. 3 SIDING	BUFFER STOP	33 SIGNAL	339
UP REFUGE LOOP	W 4 SIGNAL	W 23 SIGNAL	867
SHUNTING NECK	BUFFER STOP	W 24 SIGNAL	204