Worksite Protection for Asquith to Hornsby routine network maintenance activities



DOCUMENT NO.	D2021/24412
WORK DESCRIPTION	Routine network inspection – Asquith to Hornsby
WPP Number	CN2B 10001
SCOPE:	 This SWI is applicable for the worksite protection arrangements using Lookout working and Absolute Signal Blocking concerning routine network maintenance, defect management and repair of assets within the limits specified belowand in the attached plan. Work activities include: Routine preventative and corrective work such as inspections and maintenance as appropriate for the type of protection being applied as part of this plan
AUTHORISATIONS:	Protection Officer: Protection Officer Level 1 or higher Lookout: Hand signaller Level 1 or higher, Protection Officer Level 1 or higher.
SAFETY CONTROLS -	The nominated worksite location for Lookout Working includes the Up Main North, Down Main North, Down Relief and No.1 Turnback Road from HY138 Signal to HY17 Signal .
Lookout Working arrangements:	 The nominated worksite location for Lookout Working is a moving worksite, where workers are working along the track within the limits of the nominated worksite location up to the where the Lookout is established. As work moves along the track, the Protection Officer must assess the new location and: Establish Lookouts as required to watch for approaching rail traffic from all entry points. Designate and instruct which safe places the workers are to use as the work is completed along the work route within the worksite limits.
Absolute Signal Blocking (ASB) arrangements:	Absolute Signal Blocking on the Down Main is at a fixed worksite location from HY 17 Signal to HY 25 Signal. For reference only. The worksite is protected by: • HY 13, HY 17 Signal at STOP with blocking facilities applied.
PRESTART REQUIREMENTS:	 Protection Officer assessment checklist must be completed before instructions in this SWI are followed. Tools and equipment required: Protection Officer requires a phone to contact the Signaller. Lookouts require a high-visibility arm sleeve and a whistle / horn.
FURTHER INFORMATION:	NWT 300 Planning work in the Rail Corridor NWT 310 Lookout Working NPR 711 Using Lookouts NPR 751 Calculating Minimum Warning Time NLA 302 Hornsby NGE 200 Walking in the Danger Zone Lookout Working Prohibited Locations Register NWT 308 Absolute Signal Blocking NPR 703 Using Absolute Signal Blocking

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Protection Officer assessment checklist						
Protection Officer's name:	Yes (Tick if Yes)					
This document has not expired 12 month						
SWI details and protection arrangements location, including:	have been reviewed and validated for the a	assessed worksite				
•	been completed for relevancy of works bein environment and tasks are unchanged from	-				
The Protection Officer and Qualified Worl the last 6 months. If not practiced, then a						
Corridor Safety Number Protection Officer Signature Date						

Warning

If an above item does not apply, the Protection Officer must not use this Safe Work Instruction. A new worksite protection plan must be completed in accordance with NRF 014 Worksite Protection Pre-work briefing and NRF 015 Worksite Protection Plan.

Safe Work In	struction		Transport
Worksite Prot	tection for Asquith to Hornsby	routine network maintenance activities	Transport Sydney Trains
Norksite Protec	ction Pre-work Briefing		
		Briefing date:	/ /
Protection Office		· · · · · · · · · · · · · · · · · · ·	
	name	signature	contact No.
Work location:	Asquith to Hornsby		
Scope of work: Worksite protection	on: Lookout Working and ASI	Refer to Worksite Prot	ection Plan for details
•	e specific hazards identified,		Person
including physical and equipment)	l environment, human errors, plant	Controls (to be implemented to eliminate or reduce the risk to the lowest practicable level)	responsible for Control
		Lookouts must be trained and competent to perform Lookout duties.	
		Lookouts must be rotated if performing Lookout for extended periods of time.	Protection Officer
Appro	aching rail traffic	Workers to remain within worksite limits as set out in this procedure.	
		Lookouts must be placed as per protection plan on page 8.	
		Workers are to stop work and move to a safe place immediately on being warned by the Lookouts	
		ASB implemented.	Protection Officer
• Appro	eaching rail traffic (ASB)	Lookouts and workers must be in a safe place before ending Lookout Working and before establishing ASB.	
• Live a	djacent lines	Lookouts must provide warning to workers when rail traffic is approaching from the adjacent line in either direction.	Protection Officer and Lookout
Two - way runı worksite	ning / multiple entry points into	One Lookout placed watching each direction before work starts. Lookouts are to warn workers of approaching rail traffic, including rail traffic entering or travelling within the worksite. Workers are to stop work and move to a safe place.	Protection Officer and Lookout
Obstruction to	Minimum Sighting Distance	Lookouts must provide warning to the workers whenever their line of sight is obstructed by passing rail traffic. Workers must stop work and move to a safe place and reassess positioning and method	Protection Officer and Lookout
Adjoining/Surr	ounding Worksites	Lookouts must have two independent audible warning devices that can be heard by workers over any noise generated by adjoining/surrounding worksites.	Protection Officer and Lookout
		Lookouts are to provide warning if their line of sight is obstructed by adjoining/surrounding worksites.	
Access to / Eg	ress from worksite	Access and egress points must be agreed prior to entering the Danger Zone, consideration should be given to ease of access and safest possible	All
Slips, trips, fal equipment.	Is and hazards carrying	entry and exit points. Protection Officer will assess and instruct when it is safe for workers to use <i>NGE 200 Walking in the</i> <i>Danger Zone</i> to move to the worksite or safe place.	
Mobile phone		Mobile phones use is not permitted in the Danger Zone unless being used by maintenance staff for critical maintenance communications or recording of defects.	All

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Safe Work Instruction Worksite Protection for Asquith to Hornsl	by routine network maintenance activities	Transport Sydney Trains

Safe Work	Instruction			Transport
Worksite P	Transport Sydney Trains			
Workplace Su	pervisor details			
	name			contact No.
Emergency as	ssembly point: Access Gate	SWMS/SWI Ref #:		
First aid kit location:	Sydney Trains work vehicle	First aider:		
Workplace S	upervisor acknowledgement			
	upervisor acknowledges that all identified WHS and rail safet Is in place to manage and/or eliminate the hazards.	y hazards have the Yes		signature

Participant Acknowledgement

NOTE: Recipients of the briefing are to question the Briefer if they don't understand any part of this briefing.						
All workers listed below acknowledge that they:						
1. have been inducted to the site		6. have been briefed on the contents of the Worksite Protection Plan				
2. are free from alcohol and drugs		 have been shown the Worksite Protection Plan diagram 				
3. are free from the effects of fatigu	le	8. understand the kinds and limits of	worksite protection in place			
 hold the applicable and current F licence and/or induction record e 	Rail Safety Worker Authorisation, trade a.g. Construction Industry Induction	the final site inspection (final site ins	hazards and controls identified during pection must be conducted immediately			
5. must wear the appropriate Perso	onal Protective Equipment (PPE)	before commencing work)				
Mark each check box below with a tick $arDelta$ if	f the item applies or a cross 🗵 if the item does r	not apply.				
have been informed of the required)	rements of the electrical permit (if	have been made aware of any haz	ardous materials/substances on site			
		have been briefed on Safety Data	Sheets (SDS)			
have been briefed on the SWMS for the job	S/SWIs/documented safe work practice	have been briefed on the WHS Ma	anagement plan			
have been instructed in the contr SWMS/SWIs	rols recorded in this document and	have been briefed on the hazards	of adjoining worksites/processes.			
Name	Signature	Time of briefing: hh:mm	Amendment briefing: hh:mm and initial			

Safe Wo	ork Instruction							Transact
Worksite	ite Protection for Asquith to Hornsby routine network maintenance activities							
Worksite P	rotection Plan	– Lo	okout W	orking				
Signaller de	tails							
Ducto otion (na	ame		Horns	by Main Pa	inel	02 9701 1510
Protection	Officer details	ní	ame			signat	ture	contact No.
	RSW or		No			designa		
Workplace		Г	110.			uesigna		
	Supervisor detail	s						
Type of wor	e location							
On the					Up Main	North		
On the					Op Main	North		
					Down Maii	n North		
					Down R	elief		
					No.1 Turnba	ick Road		
between		4	Asquith		and		Normanhu	rst
Vinimum W	arning Time Cal	culat	ions					
Minimum W	arning Time Cal	culat	ions					
Maximum tra	ck speed	11	5 km/h					
Number of Lo	ookouts used			2	Position of Lo	okouts	35.377 km to	32.823 km
Number of a	dditional Lookouts*	used		`	Position of Lo	okouts	32.571 km to	km
Note - Lookout	ts are relocated to pos	itions \	within these K	Ms as worke	ers move along the	e worksite.		
2 sec	+ 3 sec	+	10 sec			15 sec	115km/h	479 metres
2 sec	+ 3 sec	+	10 sec		um Warning Time	15 sec	100km/h	417 metres
2 sec	+ 3 sec	+	10 sec		MWT)	15 sec	80km/h	333 metres
2 sec	+ 3 sec	+	10 sec			15 sec	60km/h	250 metres
7 sec	+ 3 sec	+	10 sec			20 sec	80km/h	444 metres
See Time (S)	Move Time (M)		Safe Time	(S+M+1	0 sec = MWT)		Track speed	Minimum Sighting Distance as calculated
	ional MWT calculat the safe places					•	rs?	
Lookouts:	Up and Down							
	-		-					
Workers:	Up and Down							
	workers have be					Yes C		ed as part of this worksite
	an for Lookout W				noni payes. I	1030 are 10		אין אפור איז איזאאנא

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Worksite Protection Plan – Absolute Signal Blocking

		name			signature				contact No.
	RSW o	or RIW No.			designation	Pla	anned Duratior	ı	
Type of work:									
2. Worksite	Location								-
On the	Dov	wn Main	from	HY 2	25 Signal	to	HY	17	
On the	Dow	vn Relief	from	HY	23 Signal	to	HY	17	
. Protection to	o be used						_		
			at STOP with acilities applie		Points secu	red			
Protection is rec	quired from c	other Signaller	s(s) at		Location / pane	el		Loca	ation / panel
. Assurances			L				_		
-	-	fected portion	of track are p		blocking facilitie				
The last rail tra the protection			rail tra		ast known locat affic is	ion of			location
Confirm that the	ere is no rail t	traffic betweer	n the protectio	n and the wo	rksite 🛛				
5. Authorisatio Authorised by									
Authonised by	Signalier	name		Horns	by Main Panel		hr		1 1
Protection			Notes		J				
Number									
6. Temporar	ily Suspend	ling ASB							
Provide the name and worksite location			Provide the r worksite loca			Provide t worksite	the name and location		
Workers and clear of the D			Workers and equipment are U Workers and equipment clear of the Danger Zone Clear of the Danger Zone						
Provide prote	•	_	Provide prote	ection numbe	r 🗆	Provide protection number			
ASB suspend	ded at	hr	ASB suspen	ded at	hr	ASB sus	pended at		hr
7. Re-establ	ish ASB ass	surances							
The worksite identical	location is		The worksite identical	e location is		The work identical	site location is	3	
All points of e				entry into the			s of entry into t		
affected porti protected and facilities appl	d blocking	are 🗆	protected an facilities app		re 🗆		portion of track d and blocking applied	(are	
The last rail t pass the prot		rail traffic ID	The last rail pass the pro		rail traffic ID		rail traffic to protection was	s	rail traffic ID
The last know of rail traffic i		location	The last know of rail traffic		location	The last of rail tra	known locatior ffic is	ו	location
There is no a traffic betwee and the work	en the protec			approaching r en the protect (site			no approachin tween the prot worksite		
ASB re-estat	olished at	hr	ASB re-estal	blished at	hr	ASB re-e	established at		hr
Protection Number			Protection Number			Protectio Number	n	-	
. Ending									
Provide name worksite location			and equipme he Danger Zo		Provide prote number	ction	Ended a	at	hr
WI Custodian: Mai WI Approver: Asso				OFFICIAL ROLLED COPY W	HEN PRINTED			Issue [Date: 06/12/2024 Version: 1.3 Page 7 of 15



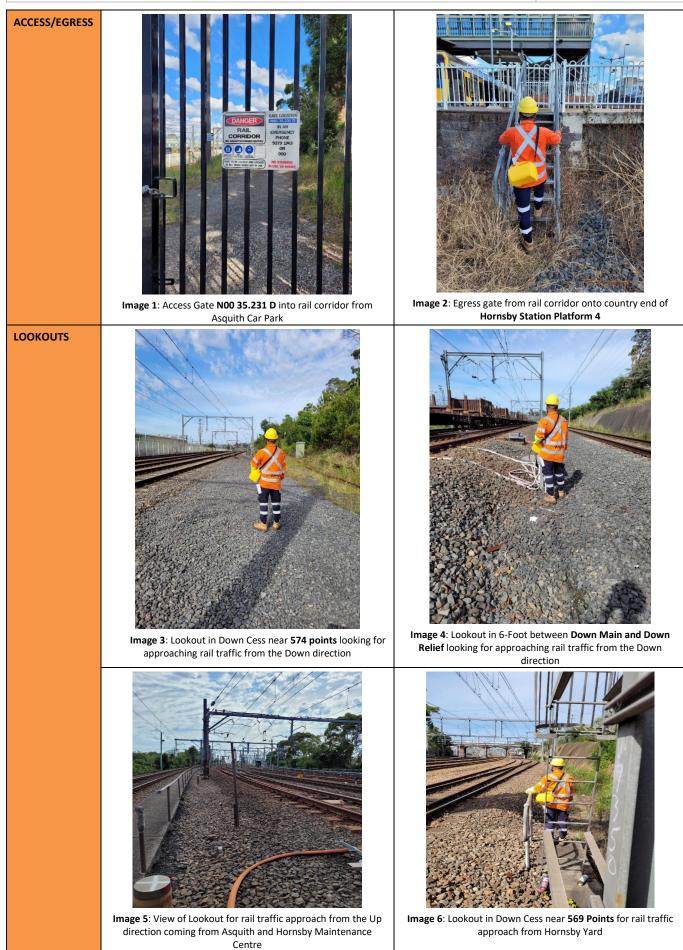
Worksite Protection for Asquith to Hornsby routine network maintenance activities

Section 1 - Asquith to Hornsby

LOOKOUT	1. Protection Officer briefs workers about the worksite protection arrangements.
WORKING INSTRUCTIONS:	 Protection Officer contacts Hornsby Main Panel and tells the Signaller about the use of Lookout Working between Asquith and Hornsby on the Up Main North, Down Main North, Down Relief and No.1 Turnback Road.
	3. Workers enter rail corridor via gate N00 35.231 D on Fuller Avenue, at Asquith Station carpark located on the downside.
	 Protection Officer establishes Lookouts watching for rail traffic approach from both directions at designated locations.
	 Workers start work on the Up Main, Down Main, Down Relief and No.1 Turnback Road up to the designated Lookout locations.
	6. Workers move to a safe place.
	7. Repeat steps 4 - 6 until workers reach Hornsby Station.
	8. Recall Lookouts.
	9. All workers move to a safe place and egress onto Hornsby Station.
ASB	1. Protection Officer ends Lookout working and implements ASB to complete scope of work.
INSTRUCTIONS:	2. Protection Officer briefs workers about the worksite protection arrangements.
	3. Protection Officer contacts the Signaler at Hornsby Main Panel to request ASB.
	4. After ASB has been authorized, start work within the limits of the nominated worksite location.
	5. After work is complete, workers move to a safe place.
	6. Protection Officer contacts the Signaler at Hornsby Main Panel to end ASB.
	7. All workers egress the rail corridor via Access Gate at Hornsby
ADDITIONAL	Two-way running
DETAILS	Hornsby Yard is a two-way running area; rail traffic movements can occur in any direction at any time. On the Up Main , rail traffic can enter from multiple directions between 573 points and 501 points . Rail traffic can also enter from multiple directions between 574 points and 500 points on the Down Main , Down Relief and No.1 Turnback Road .
	A Lookout is placed for each direction of rail traffic approach and must provide warning for any rail traffic approach.
	Workers must move into a safe place upon a Lookout providing warning regardless of which line the rail traffic is approaching on.
	Obstruction to Lookout's Minimum Sighting Distance
	Rail traffic coming to and from Hornsby Maintenance Centre on the Car Shed Roads may obstruct the Lookout's Minimum Sighting Distance for a short portion of the work.
	Rail traffic on the Up Main may also obstruct the Lookout's Minimum Sighting Distance for down approaching rail traffic.
	Stabled rail traffic on No.1 Turnback Road in Hornsby Yard may obstruct the Lookout's Minimum Sighting Distance from rail traffic approaching on the Down Relief .
	Lookouts must provide warning to workers when Minimum Sighting Distance is obstructed by rail traffic on adjacent lines. All workers must remain in a safe place until Lookouts re-established Minimum Sighting Distance.
	No safe place within platform limits
	Workers must not enter the Danger Zone within the limits of any platforms at Hornsby Station.

Worksite Protection for Asquith to Hornsby routine network maintenance activities





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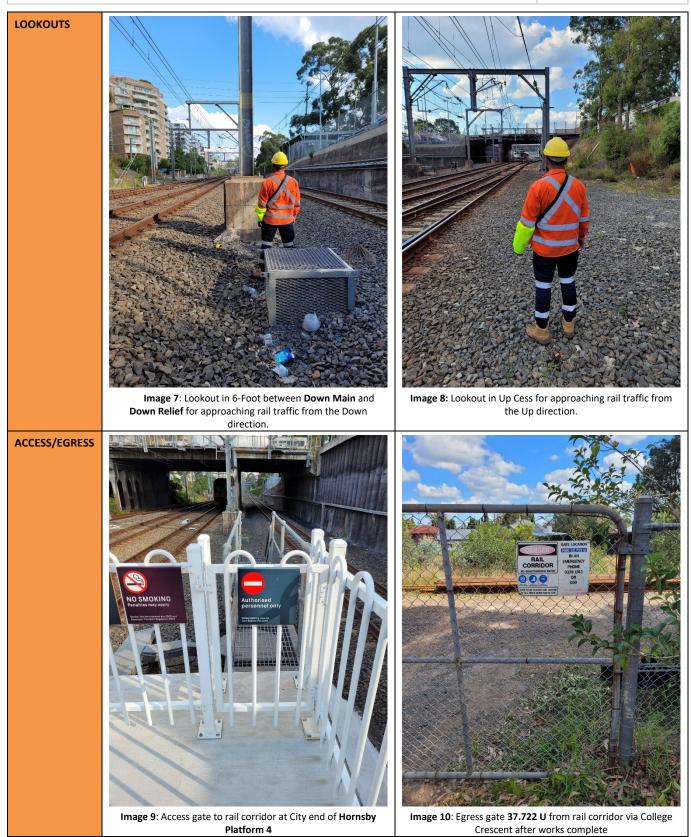
Worksite Protection for Asquith to Hornsby routine network maintenance activities

Section 2 – Hornsby Station Platform 4 to HY 17 Signal

	, · · · · · · · · · · · · · · · · · · ·
INSTRUCTIONS:	1. Protection Officer, Lookouts and workers re-enter the rail corridor via the city end of Hornsby Station
	Platform 4.
	2. Protection Officer places Lookouts watching for rail traffic approach from both directions at designated
	locations.
	3. Workers start work on the Up Main, Down Main and Down Relief , working up to the designated Lookout
	locations.
	4. Workers move to a safe place.
	5. Repeat steps 3 – 5 until workers complete work between HY 21 Signal and Hornsby Station is complete.
	6. Once work is complete, all workers move into a safe place.
	7. Protection Officer recalls Lookouts.
	8. Protection Officer contacts the Signaller at Hornsby Main Panel to end Lookout Working.
ADDITIONAL	Two-way running
DETAILS	Hornsby Yard is a two-way running area; rail traffic movements can occur in any direction at any time. On t he Up Main, rail traffic can enter from multiple directions between 573 points and 501 p oints. Rail traffic can also enter from multiple directions between 574 points and 500 points on the Down Main, Down Relief.
	A Lookout is placed for each direction of rail traffic approach and provide warning for any rail traffic approach.
	Workers must move into a safe place upon a Lookout providing warning regardless of which line the rail traffic is approaching on.
	Obstruction to Lookout's Minimum Sighting Distance
	Rail traffic on the Up Main will obstruct the Lookout's Minimum Sighting Distance for down approaching rail traffic as they approach 500 points .
	Lookouts must provide warning to workers when Minimum Sighting Distance is obstructed by rail traffic on adjacent lines. All workers must remain in a safe place until Lookouts regain Minimum Sighting Distance.
	Lookout Working Prohibited Location
	Lookout Working is prohibited beyond HY 17 Signal towards Normanhurst on all tracks.
	Workers must not perform work beyond this point towards Normanhurst.

Worksite Protection for Asquith to Hornsby routine network maintenance activities



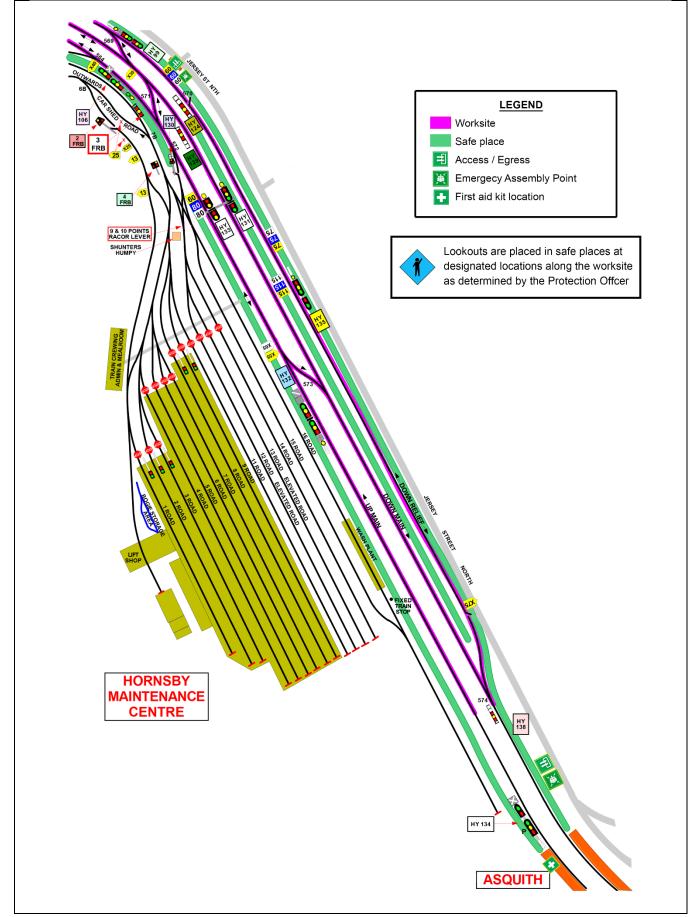


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Diagram – Section 1

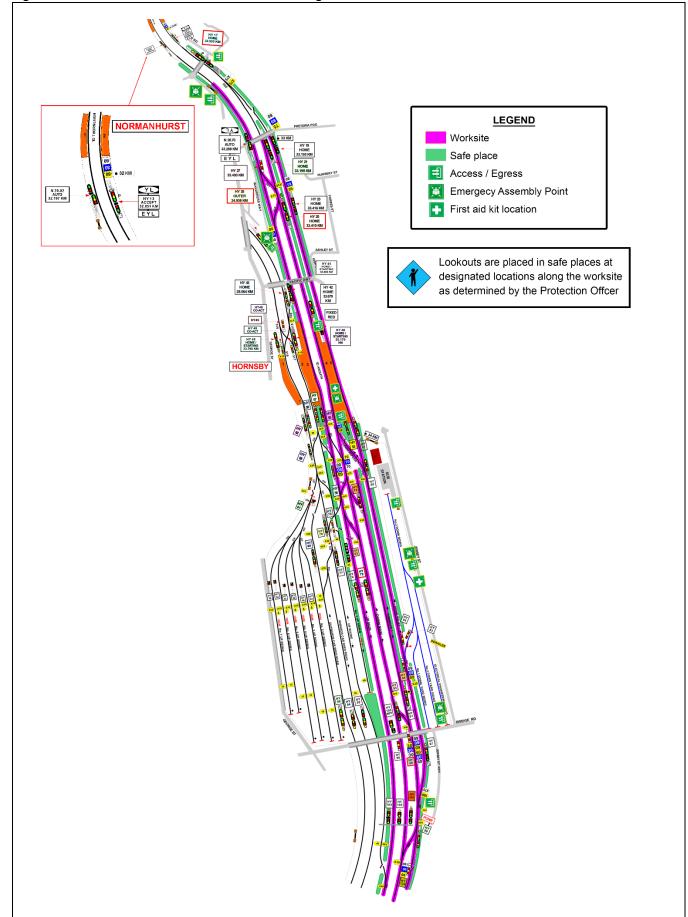


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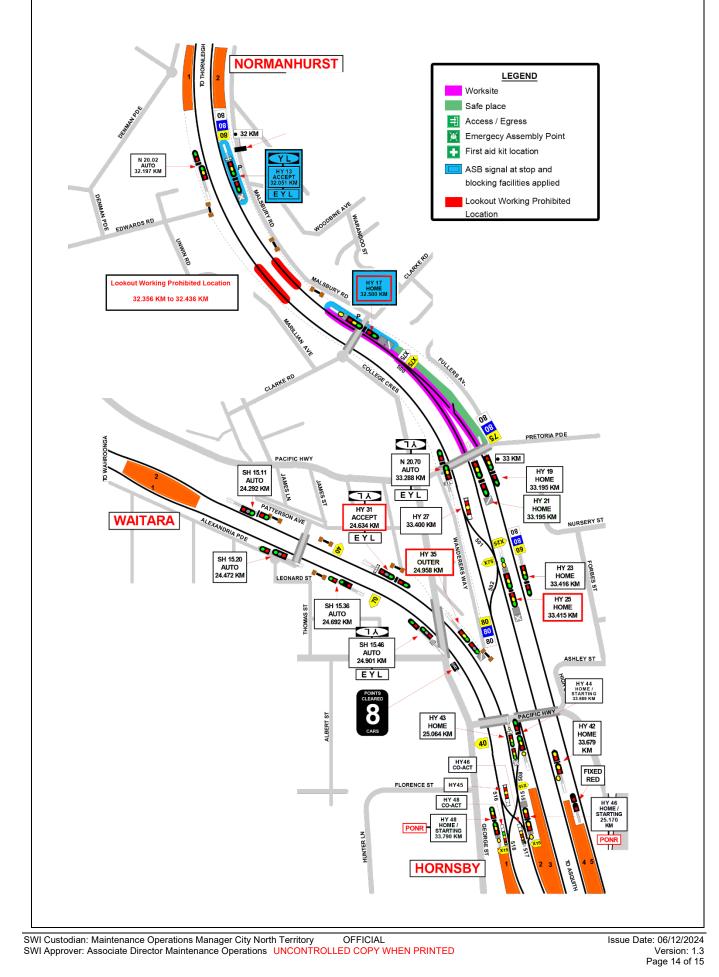
Diagram – Section 1 cont. and Section 2 Lookout Working



Worksite Protection for Asquith to Hornsby routine network maintenance activities



Diagram – Section 1 ASB



Worksite Protection for Asquith to Hornsby routine network maintenance activities



Protection Officer's diary

	Officer's dial	
Date	Time	Notes
-		