

Lookout Working Worksite Protection for Eastern Suburban Railway Lines Routine Network Maintenance Activities

WORK DESCRIPTION	Routine network maintenance activities – ESR (lookout working)
WPP NUMBER	CE6B 10444
SCOPE:	<p>This SWI is applicable for the worksite protection arrangements using lookout working concerning routine network maintenance, defect management and repair of assets within the limits specified below and in the attached plan.</p> <p>Work activities include:</p> <ul style="list-style-type: none"> • 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:	<p>Protection Officer: Protection Officer Level 1 or higher Lookout: Engineering Hand signaller Level 1 or higher or Protection Officer Level 1 or higher.</p>
SAFETY CONTROLS: Lookout working arrangements	<p>The nominated worksite location for Lookout Working includes the Up and Down Eastern Suburbs Railway Lines, Up and Down Illawarra Relief Lines, and Up and Down Storage Sidings, Terminal Roads (Bondi Junction, Martin Place and Central between IR2.75 Signal and End of Terminal Line (Bondi Junction)).</p> <p>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.</p> <p>As work moves along the track, the Protection Officer must assess the new location and:</p> <ul style="list-style-type: none"> • Establish and/or re-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. • Make sure workers are not walking in more than 2 person groups. Groups must be space 20m apart. • Instruct Lookouts to use warning lights to provide as a safety measure when inside tunnel areas
PRESTART REQUIREMENTS:	<p>Protection Officer Assessment checklist must be completed before instructions in this SWI are followed.</p> <p>Tools and equipment required:</p> <ul style="list-style-type: none"> • Protection Officer requires a phone to contact the Signaller. • Lookouts require a high-visibility arm sleeve and a whistle/horn.
FURTHER INFORMATION:	<p><i>NWT 300 Planning work in the Rail Corridor</i></p> <p><i>NWT 310 Lookout Working</i></p> <p><i>NPR 711 Using Lookouts</i></p> <p><i>NPR 751 Calculating Minimum Warning Time</i></p> <p><i>NPR 712 Protecting work from rail traffic on adjacent lines</i></p> <p><i>NGE 200 Walking in the Danger Zone</i></p> <p><i>NLA 106 Erskineville to Bondi Junction</i></p> <p><i>Lookout Working Prohibited Locations Register</i></p>

UNCONTROLLED COPY WHEN PRINTED

Protection Officer assessment checklist		
Protection Officer's name:		Yes <i>(Tick if Yes)</i>
This document has not expired 12 months beyond the issue date.		
SWI details and protection arrangements have been reviewed and validated for the assessed worksite location, including: <ul style="list-style-type: none"> On-site safety assessment has been completed for relevancy of works being undertaken The required protection details, environment and tasks are unchanged from the details of this SWI 		
The Protection Officer and Qualified Workers deploying qualifications are current and have practiced in the last 6 months. If not practiced, then a Rail Safety Coach must be contacted for guidance.		
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.

UNCONTROLLED COPY WHEN PRINTED

Worksite Protection Pre-work Briefing

Briefing date:

Protection Officer details

Work location:

Scope of work:

Worksite protection: **Lookout Working** Refer to Worksite Protection Plan for details

Hazards <small>(e.g. environment, plant, equipment, human error)</small>	Controls <small>(to be implemented to eliminate or reduce the risk to the lowest practicable level)</small>	Person responsible for Control
Approaching rail traffic	<ul style="list-style-type: none"> Lookouts must be trained and competent to perform lookout duties. Lookouts must be rotated if performing lookout for extended periods of time. 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 	Protection Officer and Lookout
Live adjacent lines	<ul style="list-style-type: none"> Lookouts must provide warning to workers when rail traffic is approaching from the adjacent line in either direction. 	Protection Officer and Lookout
Two - way running / multiple entry points into worksite	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Lookouts must provide warning to the workers whenever their line of sight is obstructed by rail traffic or any other reason. Workers must stop work and move to a safe place and reassess positioning and method 	Protection Officer and Lookout
Refuge limitations (Alcoves)	<ul style="list-style-type: none"> Workers must not walk in more than 2 person groups. Groups must be spaced 20m apart. Protection Officer will designate each individual's refuge safe place to move to when the Lookout provides warning. 	Protection Officer
No easily reachable Safe Place within station platform limits	<ul style="list-style-type: none"> No work or walking through station platform limits. Higher level of protection required to access. 	All
Adjoining/Surrounding Worksites	<ul style="list-style-type: none"> Lookouts must have two independent audible warning devices that can be heard by workers over any noise generated by adjoining/surrounding worksites. Lookouts are to provide warning if their line of sight is obstructed by adjoining/surrounding worksites. 	Protection Officer and Lookout

UNCONTROLLED COPY WHEN PRINTED



Access to / Egress from worksite	<ul style="list-style-type: none"> Access and egress points must be agreed prior to entering the danger zone, consideration should be given to ease of access and safest possible entry and exit points. 	All
Slips, trips, falls and hazards carrying equipment	<ul style="list-style-type: none"> Protection Officer will assess and instruct when it is safe for workers to use NGE 200 Walking in the Danger Zone to move to the worksite or safe place. 	All
Mobile phone	<ul style="list-style-type: none"> 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

A final site inspection has been conducted immediately before commencing work, and any new hazards and controls have been included.

UNCONTROLLED COPY WHEN PRINTED

Worksite Protection Plan – Lookout Working

Signaller details

<input type="text" value="name"/>	<input type="text" value="ESR Panel"/>	<input type="text" value="02 8568 3491"/>
-----------------------------------	--	---

Protection Officer details

<input type="text" value="name"/>	<input type="text" value="signature"/>	<input type="text" value="contact no."/>
<input type="text" value="RSW or RIW No."/>	<input type="text" value="designation"/>	Planned duration <input type="text"/>

Workplace Supervisor details:

Type of work:

Worksite location				
on the	<input type="checkbox"/> Up and Down Eastern Suburbs Railway lines	<input type="checkbox"/> Up and Down Illawarra Relief lines	<input type="checkbox"/> Up and Down Storage Sidings	<input type="checkbox"/> Terminal roads (Bondi Junction, Martin Place and Central)
between	<input type="text" value="IR2.75 Signal"/>	and	<input type="text" value="End of Terminal Line (Bondi Junction)"/>	

Worksite assessment

The Lookout Working Prohibited Locations Register been consulted Yes

Warning method

<input type="checkbox"/> Horn	<input type="checkbox"/> Whistle	<input type="checkbox"/> Voice
-------------------------------	----------------------------------	--------------------------------

Minimum Warning Time Calculations

Maximum track speed	<input type="text" value="60 km/h"/>
Number of Lookouts used	<input type="text" value="1"/> Position of Lookouts <input type="text" value="2.753 km"/> to <input type="text" value="7.550 km"/>
Number of additional Lookouts* used	<input type="text" value="1"/> Position of Lookouts <input type="text" value="2.760 km"/> to <input type="text" value="3.250 km"/>

* Add an additional 5 seconds See Time if an additional Lookout is used

Note - Lookouts are relocated to positions within these KMs as workers move along the worksite.

<input type="text" value="2 sec"/>	+	<input type="text" value="8 sec"/>	+	<input type="text" value="10 sec"/>	= Minimum Warning Time (MWT)	<input type="text" value="20 sec"/>	<input type="text" value="60 km/h"/>	<input type="text" value="334 metres"/>
<input type="text" value="7 sec"/>	+	<input type="text" value="3 sec"/>	+	<input type="text" value="10 sec"/>		<input type="text" value="20 sec"/>	<input type="text" value="60 km/h"/>	<input type="text" value="334 metres"/>
<input type="text" value="2 sec"/>	+	<input type="text" value="3 sec"/>	+	<input type="text" value="10 sec"/>		<input type="text" value="15 sec"/>	<input type="text" value="45 km/h"/>	<input type="text" value="188 metres"/>
<input type="text" value="2 sec"/>	+	<input type="text" value="3 sec"/>	+	<input type="text" value="10 sec"/>		<input type="text" value="15 sec"/>	<input type="text" value="25 km/h"/>	<input type="text" value="105 metres"/>
<small>See Time (S)</small>		<small>Move Time (M)</small>		<small>Safe Time</small>	<small>(S+M+10 sec = MWT)</small>	<small>Track speed</small>	<small>Minimum Sighting Distance as calculated</small>	

Note – Additional MWT calculations can be recorded in the Protection Officer’s Diary.

Where are the safe places identified for the Lookouts and the workers?

Lookouts:

Workers:

Ensure the workers have been briefed about these work details Yes

Diagrams, notes, and detailed instructions are over the next pages. These are to be read and followed as part of this worksite protection plan for Lookout Working.

UNCONTROLLED COPY WHEN PRINTED



INSTRUCTIONS:	<p>Workers enter the rail corridor via any station in the ESR Tunnel or via Erskineville Portal, Art Gallery Pad, Edgecliff Pad or Woollahra Cutting.</p> <ul style="list-style-type: none"> Protection Officer briefs workers about the worksite protection arrangements. Protection Officer contacts ESR Panel to tell the Signaller of the use of Lookout Working on the Up and Down Eastern Suburbs Line from IR2.75 Signal to Bondi Junction end of terminal line and tells the Signaller about the use of Lookout Working. Establish Lookouts at designated locations. Workers start work up to designated locations. Workers move to safe place. Re-establish Lookouts at next designated location. Repeat steps 6-8 until work is complete. Workers move to a safe place. Recall lookouts. Workers egress the worksite via the designated exit location. Protection Officer contacts ESR panel to end Lookout Working.
ADDITIONAL DETAILS	<p>Use of Warning Lights When around platforms in the ESR, establish Lookouts as follows.</p> <ul style="list-style-type: none"> Watching a warning light at the arrival end from the platform, or Watching a warning light at the departure end from the platform. <p>Refuge limitations (Alcoves) Alcove safe places have limited space for up to 2 persons. Workers must not walk in more than 2 person groups. Groups must be spaced 10m apart. The Protection Officer must designate which alcoves are to be used by whom when the Lookout warns of approaching rail traffic.</p> <p>Lookout Working Prohibited Locations There are no safe places in the platform areas. Workers must stop work and move onto the platform when the workers reach the station platforms.</p>
Additional Lookout at Woolloomooloo	<p>Sighting Distance An additional lookout is required for work conducted between 2+760 km (ES2.7 Signal) and 3+250 km (Signal ES3.25) on the UP ESR and Down ESR line to ensure the necessary sighting distance. An additional lookout must be positioned between 2+760 km and 3+250 km. (Whistle and Horn must be used).</p>
Town Hall Platform 5 Down ESR line	<p>When the workers need to work on the Down ESR line between Town Hall Platform 5 and the first refuge opposite ES 1.31 Signal (see Image 1):</p> <ul style="list-style-type: none"> establish a Lookout on Platform 5 using the Warning Light nearest to ES 1.11 Signal on the arrival end of Town Hall Platform 5 (see Image 2), and the Lookout must not use the Warning Light nearest to ES 1.31 Signal to warn workers of rail traffic approach.

UNCONTROLLED COPY WHEN PRINTED



Image 1: If workers are located in this area, the Lookout must use the Warning Light in Image 2.

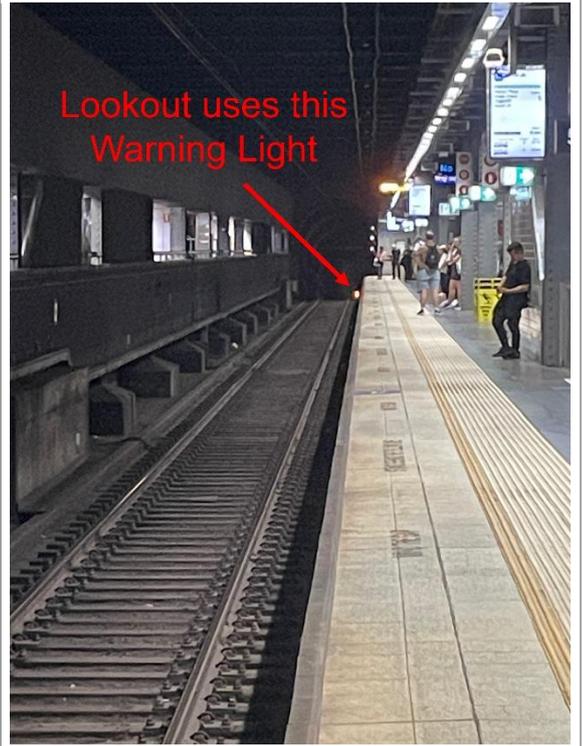


Image 2: Example of view of the Warning Light from the Lookout

LOOKOUTS



Image 3: Example of warning light at Bondi Junction and access by station platforms

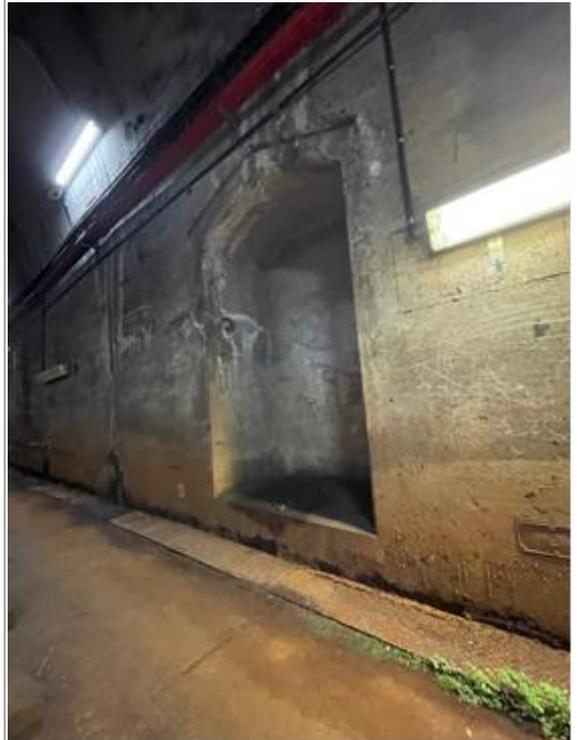
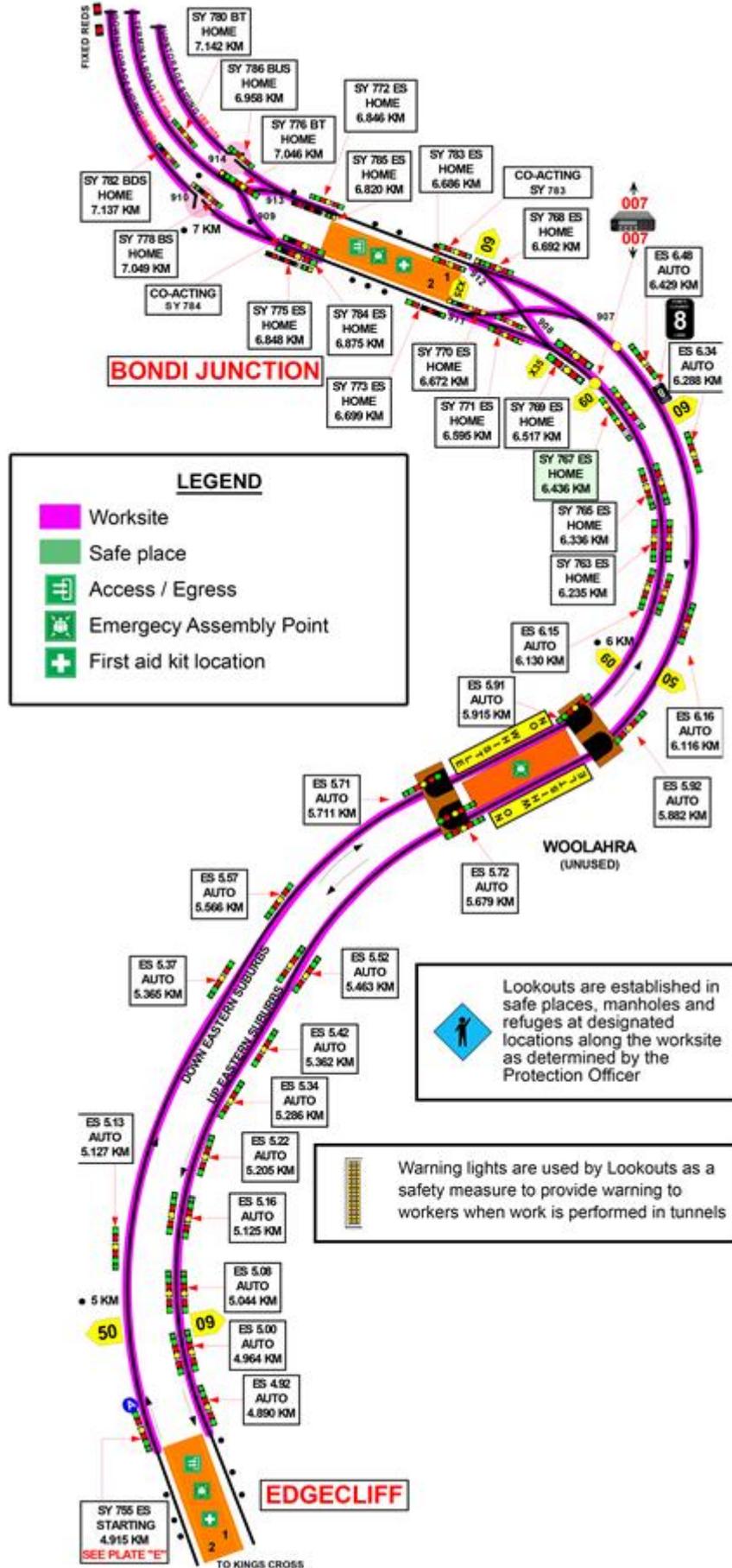


Image 4: Example of a manhole safe places

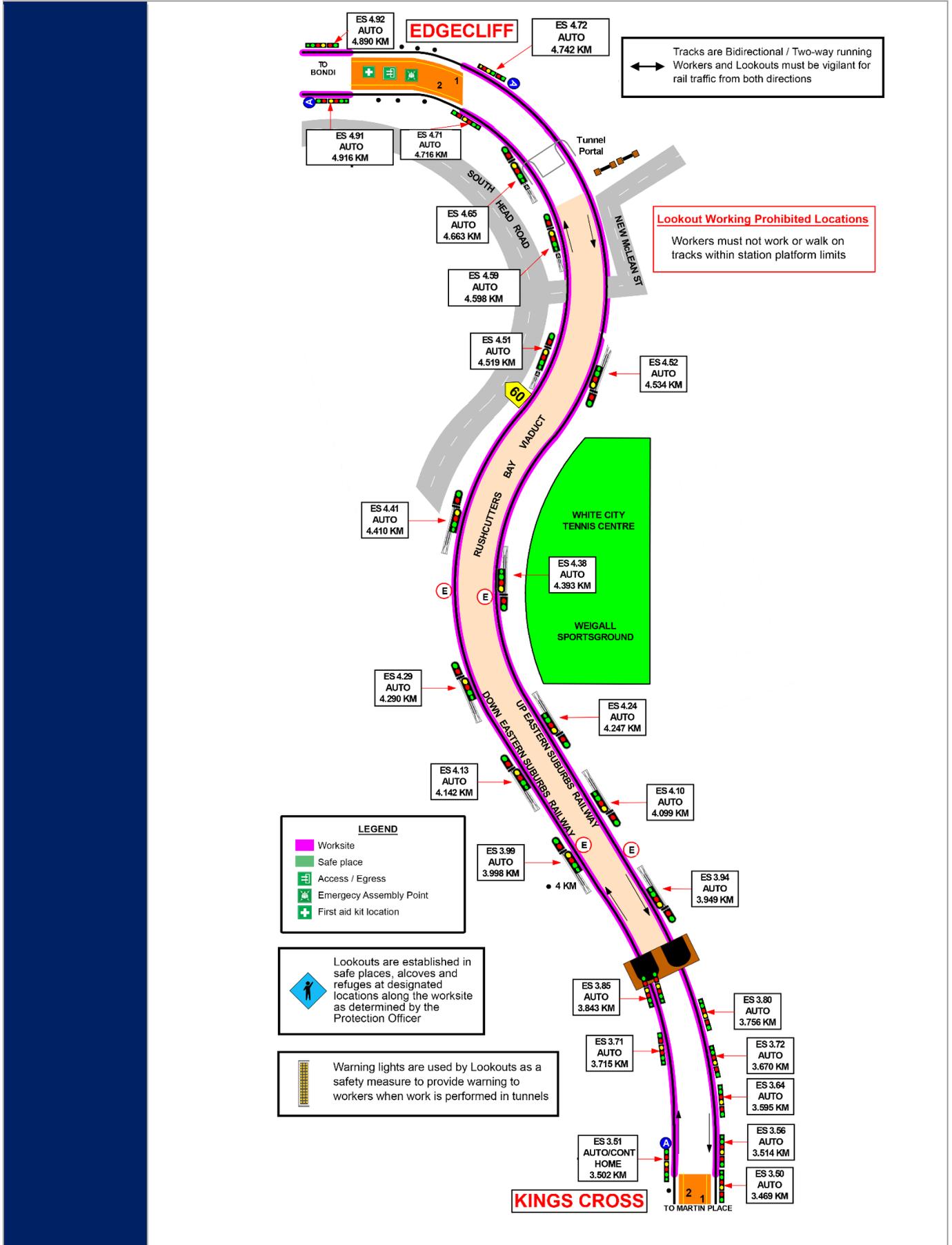
UNCONTROLLED COPY WHEN PRINTED

ACCESS /
EGRESS

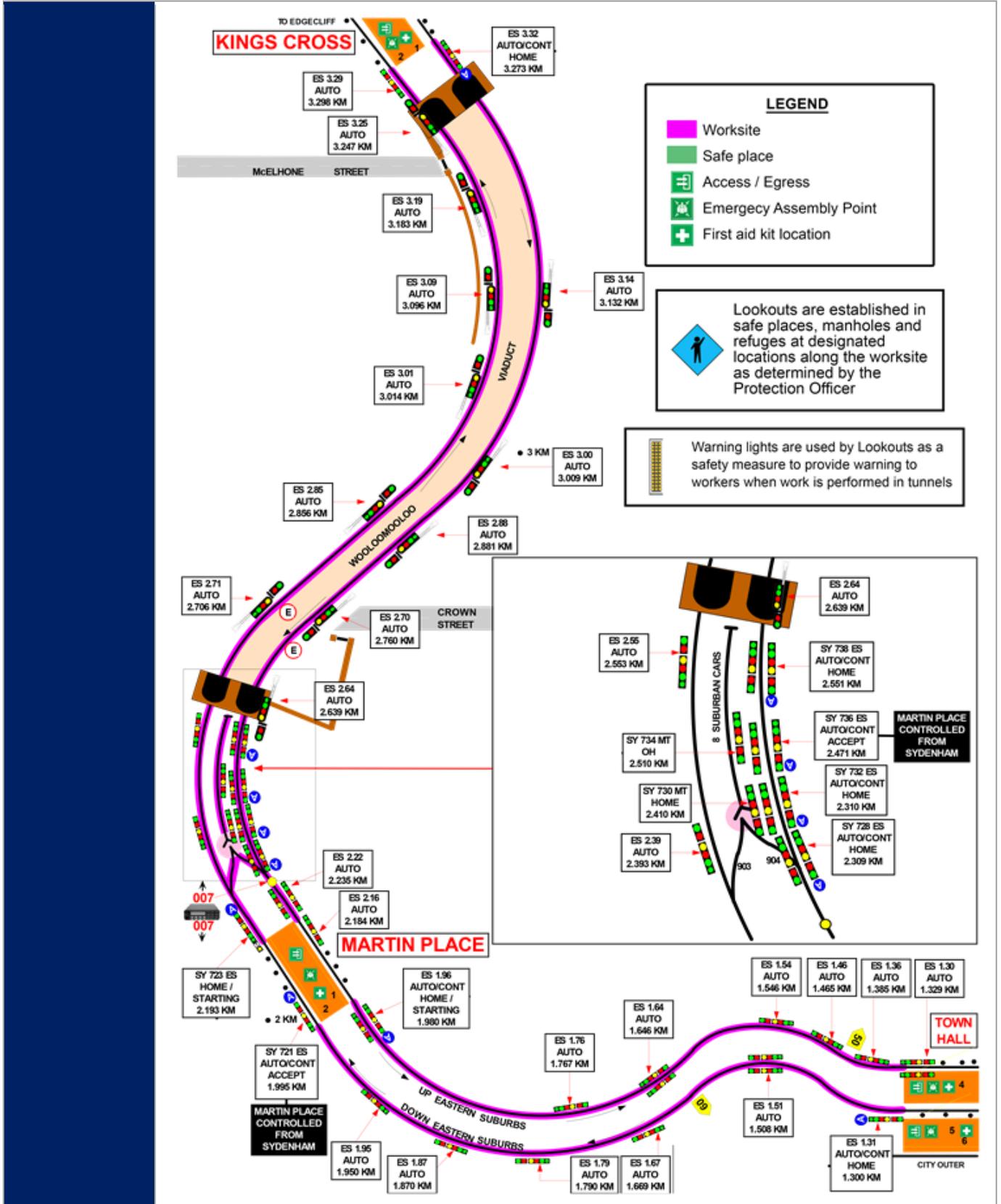


UNCONTROLLED COPY WHEN PRINTED

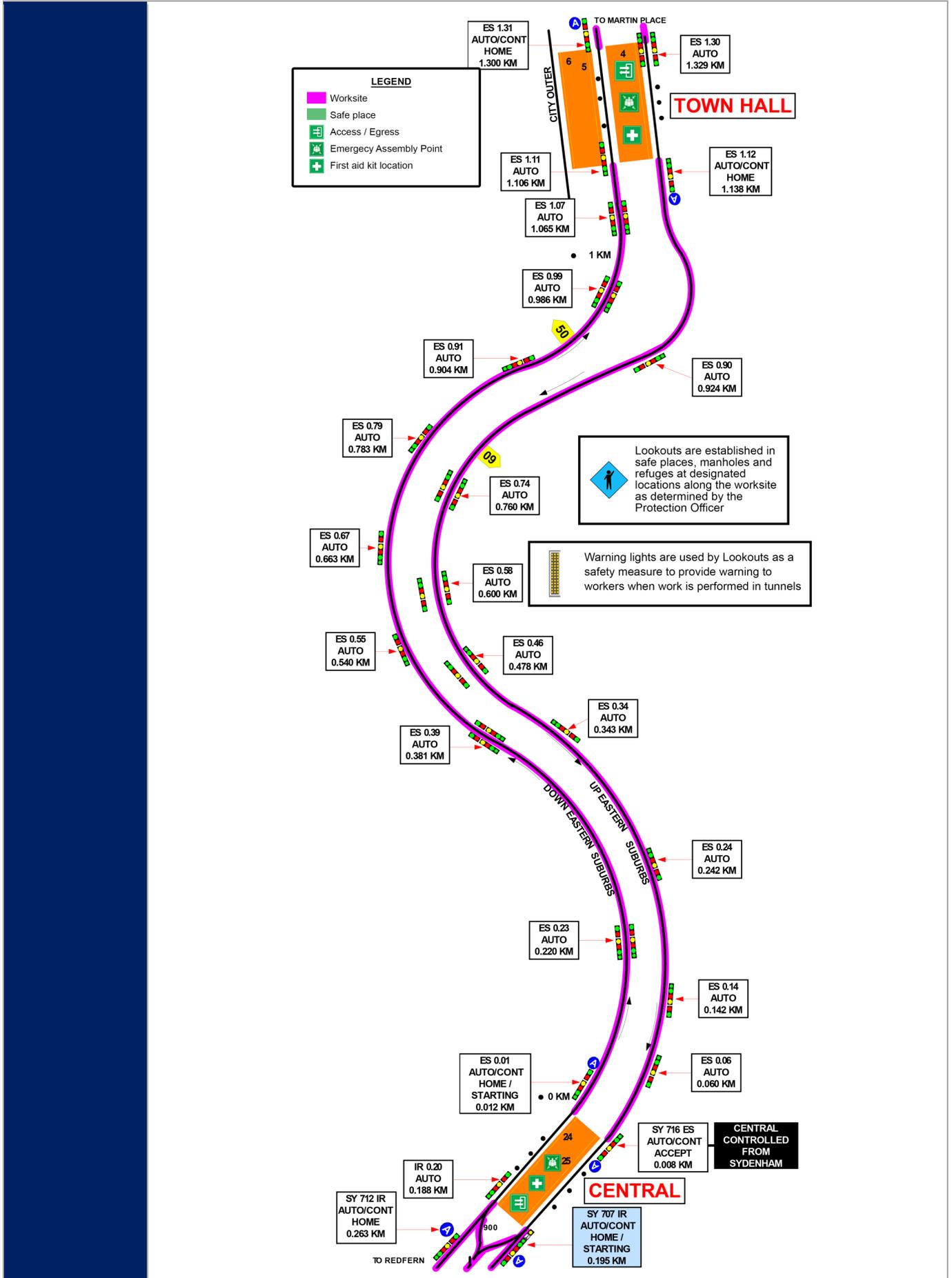




UNCONTROLLED COPY WHEN PRINTED

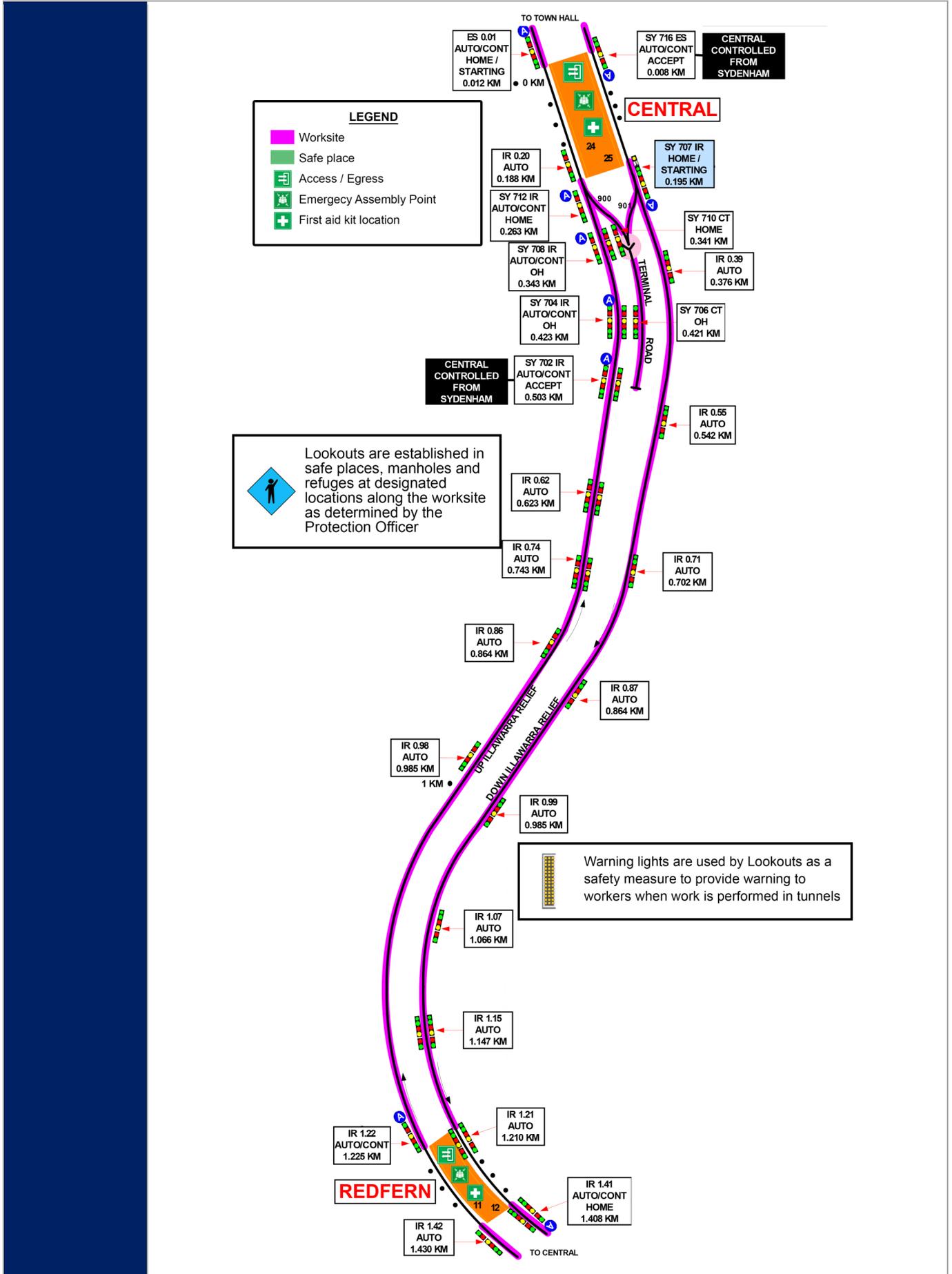


UNCONTROLLED COPY WHEN PRINTED



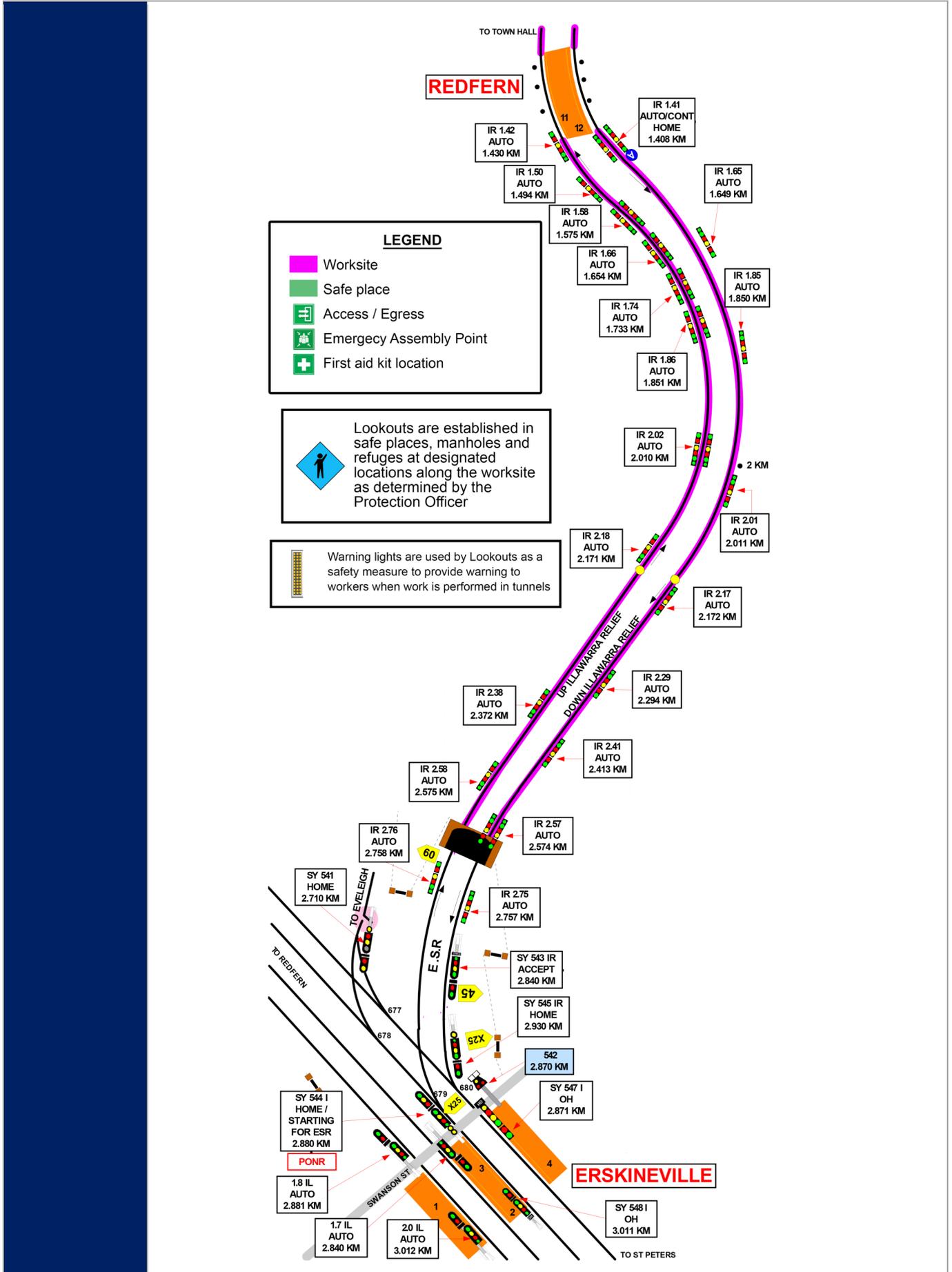
UNCONTROLLED COPY WHEN PRINTED





UNCONTROLLED COPY WHEN PRINTED





UNCONTROLLED COPY WHEN PRINTED

