# **Works Access Permit**

Registration Number:E910687Utility Reference:Global - Non Excavation

poriruacity

## **1. Details of Proposed Work**

Activity: Chambers Access, Asset Inspections/Maintenance, Drainage Works, Manhole Maintenance, Meter Maintenance, Survey, Other (Specify Detail) Address: 16 Cobham Court, Porirua City Centre, Porirua, 5022 Location in road: Carriageway, Footpath, Berm, Nature Strip WAP valid period: 01 January 2023 to 31 December 2023

## **2. The Parties**

Porirua City Council being a body corporate in accordance with the Local Government Act 2002 ('the Corridor Manager;')

Wellington Water Alliance being an approved Utility Operator in accordance with submitting a request for access in accordance with that act;

Wellington Water Alliance being the agent of the Utility Operator submitting this request on behalf of the Utility Operator and in accordance with the Utility Operator's statutory rights ('the Applicant').

## **3. Attachments**

Attachment 1 being the Schedule of Reasonable Conditions.

Attachment 2 being plan TMP showing the agreed service location.

## 4. Background

(a) The Utility Operator wishes to carry out the works stated on CAR Number E910687 and thereafter maintain the utility services established in the corridor;

(b) The Corridor Manager is required to provide a written consent in accordance with its governing legislation and to provide a schedule of reasonable conditions, if required, by the utility legislation under which the request for access has been made; and

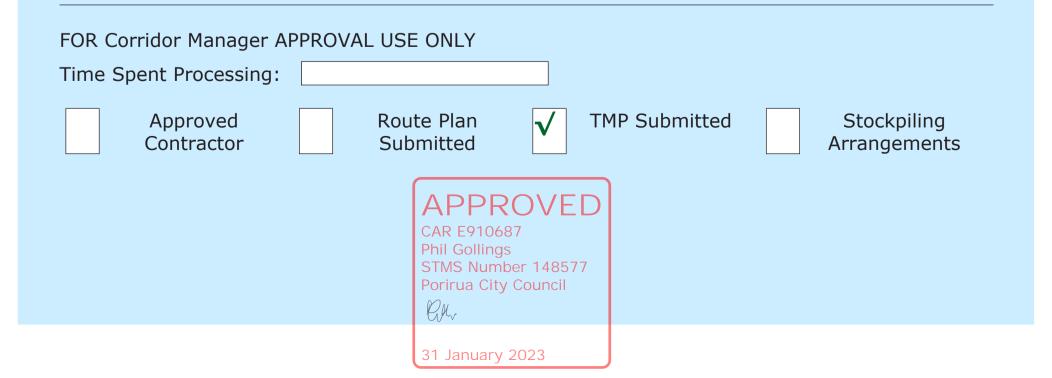
(c) In accordance with the Code: Utilities' Access to the Transport Corridors and on behalf of the Corridor Manager, I give my written consent for access to the corridor at the agreed location and attach my schedule of reasonable conditions:

(d) In the case of State highways this Works Access Permit serves as the approvals required under sections 51 and 78 of the Government Roading Powers Act.

Signed CM

**Date** 31/01/2023

Phil Gollings acting pursuant to delegated authority.



# CONDITIONS

## **General Conditions**

1. The Utility Operator must:

(a) carry out all Work in Transport Corridors in accordance with the Code and KiwiRail's Specifications for Working in Railway Corridors;

(b) undertake all Works in compliance with the Acts of Parliament and mandated codes of practice that relate to their industry and the type of Work described within the plans and methodology submitted;

(c) install assets more or less in the location shown on the attached plans, and agree the exact location and position with the Road Corridor Manager before Work commences;

(d) locate any Utility Structures in the Road Corridor in the agreed position shown on the drawings and clear of the Carriageway, Road Corridor furniture and kerbs, drains, manholes, etc. Utility Structures agreed to be within the trafficable part of the Road are to be flush with the surface and designed to withstand full heavy Traffic loading (NZTA's HN-HO-72 Traffic Loading);

(e) provide a full description of the construction methodology, reinstatement, resurfacing and compaction and agree this with the Road Corridor Manager prior to Work commencing;

(f) make the Works available at all times for inspection by any person representing the Road Corridor Manager;

(g) if requested, pay the reasonable costs of the Road Corridor Manager in connection with the processing of this notice and for the monitoring and auditing of the Works; (See NZ Transport Agency Cost Structure under Clause 23)

(h) keep a full copy of the Works Access Permit/ Permit to Enter and Reasonable Conditions on the Work Site at all times during the Works;

(i) undertake remedial action on non-conforming Work within the timeframe set by the Road Corridor Manager, where reasonable and practicable;

(j) gain all the necessary consents, approvals and permits from the relevant statutory and regulatory authorities at its own cost;

(k) keep plans of the installed Work and make them available to the Railway Corridor Manager (in all cases) and Road Corridor Manager (on request);

(I) compensate the Road Corridor Manager for any damage or costs incurred to the Road Corridor due to the Work or for costs resulting from the removal of abandoned installations, Utility Structures, components and equipment that belong to the Utility Operator;

(m) repair all Road Corridor assets damaged as a result of the Works, should the Road

Corridor Manager determine these are necessary prior to the end of the Warranty period;

(n) restore to their original condition any surface or Utility Structure that was damaged or removed as a result of the Works;

(o) control the surface water channels so as to cause minimal interference to existing flows;

(p) fully restore the surface water channels at the completion of the Works;

(q) notify the Road Corridor Manager of any maintenance Work it proposes to undertake within the two-year Warranty period 2910687

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(r) have in place an approved TMP for Roads and Motorways at least two days prior to Work commencing on the Work Site;

(s) provide the Road Corridor Manager with two Working Days' notice before commencement of Work on the Work Site;

(t) ensure that the Work is carried out under the control of a warranted supervisor as required by the Code of Practice for Temporary Traffic Management and ensure that there are sufficient people on site specifically to control the flow of Traffic through the site in accordance with the TMP;

(u) comply with instructions from an officer of the NZ Police Traffic Safety Branch or a duly authorised agent of the Road Corridor Manager in respect of Traffic management and safety;

(v) complete Works in the Road Corridor in one continuous operation (suspension of Works over five continuous days requires the prior written permission of the Road Corridor Manager);

(w) protect and maintain all Road Corridor signs, markers, signals, barriers and associated marking and replace them to the appropriate industry standard where they have been damaged by the Works;

(x) complete and submit a Works Completion Notice form when the Works are complete; and

(y) stop Work as necessary to meet the requirements of section 42 of the Heritage New Zealand Pouhere Taonga Act 2014.

- 2. Work must not take place on or near a State highway during and one day either side of a public holiday or public holiday weekend.
- 3. Where otherwise required due to Traffic volumes or specific residential or Central Business District requirements, the hours of Work must be as specified in the Local Conditions and Special Conditions.
- The Warranty period starts from the date the Road Corridor Manager has given signed 4. acceptance that the Work is complete or otherwise as provided in Section 4.7.1.7 of the Code.
- 5. Unless the Works stated in the WAP have started on the Work Site, the agreement relating to the Works will only remain valid for six months from the date of approval on the Works Access Permit.
- The Road Corridor Manager must manage all applications relating to Road Corridor access in 6. accordance with the timeframes and processes in the Code.
- 7. The Corridor Manager may:

(a) assess the suitability of any action proposed by the Utility Operator during the Warranty period and impose Reasonable Conditions that will maintain the integrity of the Road assets;

(b) arrange for remedial Work to be done and recover the costs incurred from the Utility Operator, if the Utility Operator fails to take action within the agreed timeframe; and

(c) instruct the Utility Operator to stop Work and leave the Work Site (having made the site safe) if the Works are not complying with the relevant Reasonable Conditions including any plans, relevant conditions or specifications contained in the Code, or permission requirements.

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- 8. In granting this WAP, no vested right is created.
- 9. This WAP is not transferable without the written permission of the Road Corridor Manager.

## **Local Conditions**

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#### CAR HCC Full Scope of Works Utility

	Utility						
Company	Wellington Water						
Contract Manager	Tim Harty						
Phone							
Email	Email Tim.harty@wellingtonwater.co.nz						
	Contractor						
Company	Wellington Water alliance						
Contract Manager	Valitha Roos						
Phone	021 510 923						
Email	Valitha.roos@wellingtonwater.co.nz						
	Sub Contractor						
Company							
Name							

Company	
Name	
Phone	
Email	

Type of Work (Tick)					Minor – Non Excavation	х
Location Road (Tick)	Carriageway	x	Footpath	x	Berm	x

#### Work Location

Physical Address	Various Locations / Streets within Porirua Region
Physical Address	various Locations / Streets within Pohrua Region

Work Programme							
Start Date	01/01/2023	Completion Date	31/12/2023				
Duration of Work	24/7	Day / Night	365				
Hours of work							
Start Time		Finish Time					

#### **Description of Activity**

Non excavation works not needing site specific:

Note: All project works or other work not covered under the Generic Tmp / Tmd will need site specific.

Confirmation is required from RCA to see if Generic covers main arterial roads or suburban shopping areas.

Only approved contractors listed on Tmp are covered under Global Car. ALL CONTRACTORS ARE TO NOTIFY THE RCA PRIOR TO CARRY OUT THEIR WORK ACTIVITY.

All work carried out may involve having 1 to 2man onsite including sub-contractors. This work will cover inspections / maintenance / locates that can be completed on the same day.

- 1. Locating council assets.
- 2. Investigate any leaks to determine what may be required to carry out any repairs.
- 3. Poor water quality needing to flush hydrants.
- 4. Operation of hydrants and valves on the same day.
- 5. Hydrant painting carried out annually.
- 6. Flow meter testing, need to access chamber to carry out test.
- 7. Leak detection surveys carried out by approved contractors AD Riley and Detection Services to locate leaks.
- 8. Utility asset mark outs.
- 9. 3 Water asset mark outs.
- 10. Meter reading check if any issues with meters and carry out final readings.
- 11. CCTV inspections.

- 12. Checking condition of Wastewater / Stormwater assets.
- Smoke / Dye testing on Wastewater / Stormwater assets to identify inflow sources, defects and cross connections, this work can take between 2 – 4 hours and will cover set locations in each suburb.
- 14. Installation and maintenance of monitoring equipment into manholes to measure flow and overflows from the Wastewater network.
- 15. Lifting manhole covers to check assets running clear.
- 16. Clearing Wastewater / Stormwater blockages.
- 17. Regular hydrant flushing takes approx. 15 mins until run clear cleaning the lines
- 18. Regular fortnightly / monthly flushing for the 3 waters that can be completed within 3 to 6 hours.
- 19. Culvert / intake clearing removing debris / trash that may impede the flow of water.
- 20. Annual pit cleaning to prevent blockages and potential overflows, duration will take no longer than 1.5 hours between 1am to 5.30am.No work will be carried out on main arterial roads between 6am to 9am.

#### Crews and Sub contractors must adhere to the following:

- Ensure proper traffic and pedestrian management is in place.
- Set up correct Tmd to suit the work site.
- Safety induction is carried out as per RCP process
- Ensure safety is adhere to at all times.
- Ensure all efforts are made to minimise disruption to residents, business and pedestrians.
- Make sure relevant documents are onsite.
- Provide photos showing a wide street view of location.
- Photos of Work carried out.
- Clear notes of what work was carried out.
- Site is packed up and left clean and tidy.
- No car will need to be logged in Submitica when carrying out inspection work on same day.

#### Work Vehicles onsite at various stages of work but not limited to:

#### Standard work crew:

1 to 2 service vehicles equipped with beacons onsite along with any small plant and equipment to carry out inspections. Crews to set up own Tmd.

#### Service crews are equipped to set up the following Tmd's only.

Traffic management will be required if you do not carry correct signage.

CC1	F2.1
CC2	F2.2
CC3	F2.5
CC4	F2.6
CC5	F2.7
CC7	J2.16A
CC8	F4.10
CC9	ATMS07
CC10	
CC11	
CC12	

Sub-contractors are to follow the Tmd criteria above, or if you do not have correct signage to set up own Tmd. Any Tmd not listed above will require external traffic management.

#### Extended crew when needed:

- Traffic management vehicles if unable to set up own traffic.
- Hydro Vac Truck / Digger / Jet Flusher maybe utilised.

Site Specific TMP required depending on the work activities and impact. Works include sewer blocks on the wastewater network that require entry from a manhole at an intersection and/or in the live lane.

This also includes works on the Stormwater network that may have an impact on traffic and project work taking more than 1 day.

ANY STATE HIGHWAY WORKS WILL BE AT THE DISCRETION OF CAPITAL JOURNEYS TMC AII WORKS APPROVED BY CAPITAL JOURNEYS TMC MUST THEN BE NOTIFIED TO THE TRAFFIC OPERATIONS CENTRE (TOC) PRIOR TO COMMENCEMENT AND POST WORK WORKS ARE TO BE PLACED ON THE WEEKLY ROAD WORKS REPORT ALL COMPLETED WORKS MUST COMPLY TO WAP CONDITIONS AND ARE TO BE REINSTATED ACCORDING TO NZTA STANDARDS

<b>_</b>	ndicate);
Length of trenching	Number of Cabinets/pedestals effected
Length of Horizontal/Vertical Drilling	Number of Structures effected (fully explain
	in description of work)
Number of holes	Number of assets removed
Number of Chamber/s effected	Duration of Road / Lane Closure (circle)
	Hours / Days
Number of Poles/Posts/Piles effected	Duration of Footpath diversion (circle)
	Hours / Days
Number of Car parks/bus stop/taxi stands	Duration of property access restricted
affected for more than two hours	(circle)
	Hours / Days

# Quantities of proposed Work (use meters, items, hours and minutes to indicate);

# Health and Safety Policy Wellington Water

#### Our Purpose

Creating excellence in regional water services for healthy communities

#### Our Vision

Our people, suppliers and affected parties go home healthy and safe

#### Our Beliefs

- Health and safety is our top priority
- · We look after ourselves; everyone takes personal responsibility for their own health and safety
- · We look out for each other, suppliers and the public; we make sure everyone is safe
- Wellington Water takes a methodical approach to health and safety; we continuously review our systems to
  ensure they are up-to-date and ensure that health and safety is foremost in infrastructure planning and design
- We're committed to health and safety at all times; nobody walks past an unsafe activity or work site we make it safe

#### Our Commitments

#### Leadership

- We make sure our people work in a safe environment
- · We make sure our work sites are safe for suppliers, neighbours and the general public
- We empower our people to manage health and safety in all situations and to stop unsafe acts as they happen; we make sure there's a safe working environment before work continues
- We proactively identify and manage hazards and ensure safe behaviour
- We support the safe and early return to work of any of our people who are injured or sick, and support and follow up on anyone who is injured on a Wellington Water site
- · We recognise staff and suppliers who practice excellence in health and safety

#### Systems

- · We make sure our people have the training, skills and resources to work safely
- We ensure infrastructure managed by Wellington Water is designed, constructed, operated and maintained safely, and will remain safe for our people, suppliers and the community
- · We accurately record, investigate and report incidents and learn from them
- We monitor our health and safety performance and that of our suppliers as a basis for continuous improvement and identifying new and safer ways of working

#### Working with others

- Our suppliers are required to commit to our vision of our people and suppliers going home healthy and safe
- We make sure all suppliers working on behalf of Wellington Water have high quality health and safety systems in place

#### place

- · We comply with and exceed all relevant legislation, regulations, codes of practice and industry standards
- · We interpret health and safety broadly and work with all stakeholders to achieve our health and safety vision

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COLIN CRAMPTON CHIEF EXECUTIVE



# People at the heart of everything we do

Living safely is how we go about every aspect of our lives; all day, every day. It is more than work, it is about integrating our work, home and interests, our desire to get the best out of life, and to be the best we can. It is recognising our strengths and weaknesses, and making positive choices that benefit our wellbeing and way of life, including those of others in the communities in which we live and work.

#### We will:

- · Demonstrate our commitment through active and visible leadership
- Abide by a simple safety management system that encourages health and safety ownership by each and every individual
- · Incorporate health and safety into the way we design, plan and do our work
- · Work collaboratively with our subcontractors to meet the required health and safety standards
- · Enhance our health and safety skills and behaviours through training and development
- · Foster a culture of reporting, learning and sharing
- . Be empowered to maintain a safe and healthy workplace
- · Promote a positive health and wellbeing mindset
- · Meet or exceed relevant standards and legal requirements
- · Set measurable objectives and targets to ensure continual improvement

**CW Bruvn** 

Managing Director





# **ROAD SPACE BOOKING**

Address:					
Contractor:				1	
Dates & Times (attended):	From:			То:	
Dates & Times (unattended):	From:			То:	
Generic TMP used:					
Diagram (s) used:					
CAR #					
Work Ad	ctivity and	d Reasons	s TTM to re	emain in	place:
					•
Contractor Name:					
Contractors Signature:					
TMC Approval:					

Please attach photos of site active site set up (these photos are to include both ends of the site (inclusive of any side roads), pedestrian/cycle management and the working area.



# **Fulton Hogan**

Trainee:							Department:		
Assessment Date:							Location:		
Assessor:						Operator Experience:			
Resources:	eSTOP Operatio	ons a	and	Ser	vice	e Manu	Manual, eSTOP Training Videos		
Rating:	1 = Needs Trainin	g; 2	= Ak	ole to	o wo	ork und	er supervision; 3 = Competent	; 4 = Able to train others	
OPERATIONAL: To be Assess trainee's demon				eter	псу	in the t	following:		
Key Requirement		Sł	<b>cill I</b> (Cir	<b>Rati</b> rcle)		Com	ments		
Install Tripod leg, adjust (height and vertical adju ballast		1	2	3	4				
Install battery pole and l	antern	1	2	3	4				
Adjust Red light indicato	or correctly	1	2	3	4				
Secures battery in place to lantern (ensuring pow		1	2	3	4				
Can power on the lanter	n correctly	1	2	3	4				
Switches on the Hand R Controller (HRC)	emote	1	2	3	4				
Able to clear pre-existing lanterns)	g pairs (unpair	1	2	3	4				
Correctly pair HRC's to l (single pair), demonstrat successful		1	2	3	4				
Correctly pair HRC to be (double pair), demonstra successful		1	2	3	4				
Perform eSTOP (lantern	n LED) light test	1	2	3	4				
Correctly sync and activ HRC to control traffic	ate eSTOP and	1	2	3	4				
Align and secure lantern poles	and battery	1	2	3	4				
Runs through 3 or 4 cyc lantern	les for each	1	2	3	4				
Put lanterns into flashing	g amber mode	1	2	3	4				
Correctly power off and eSTOP system and stor provided bags for transp	ed correctly in	1	2	3	4				
Able to re-charge HRC		1	2	3	4				
Able to re-charge eSTOP batteries 1 2		2	3	4					
<b>TECHNICAL KNOWLEDGE:</b> Operator must demonstrate technical understanding of the following:					owing:				
Key Requirement				Oper	ator Response				
Understands when HRC is Mode"	in "Test Mode" and	"Op	erat	ion					
Can interpret a "Blue" State	us LED								

# **Fulton Hogan**

Can interpret a "Green" Status LE	D					
Can interpret a "Yellow/Amber" Status LED						
Can interpret a "Blue" Fault LED						
Can interpret a "Green" Fault LED	)					
Can interpret a "Yellow/Amber" Fa	ault LED					
Can interpret a "Purple" Fault LED	)					
Can interpret a "Red" Fault LED						
Can interpret the Lantern LED's						
Describes the fail-safes built into t	he eSTOP					
Demonstrates understanding of di pair and "double" pair and how the each						
Understands operation time of HR	C and main b	atter	у			
Able to perform a soft reset of HRC						
Able to perform a soft reset of eSTOP lantern						
Able to check HRC battery status and interpret battery level						
Able to check main battery status and interpret battery level			ery level			
Can troubleshoot non-functional lantern and check fuse			use			
Describes maximum range of HR0 factors affecting this	C to lantern ar	nd de	escribes			
Describes what happens in the ev between HRC and lantern during		ıs fa	ilure			
Can describe Traffic Management requirements to use eSTOPs on the road ie documentation and site layout						
Understands under what conditions the eSTOPs can be controlled with one vs two operators			ı be			
Understand minimum requirements for eSTOP operators			ators			
EVALUATION: To be filled in by Assessor						
OVERALL RATING	1 2	3	4	Training Required?	Yes	No
Comments (e.g. specify if any additional training			ng			

 required or areas of concern)

 Operator I feel I am able to operate this machine safely and competently. If I require any refresher or further training I will advise my Supervisor or Department Manager.

Signature:

Assessor I hereby verify the above assessment is correct, and I am competent and qualified to undertake this assessment.

Signature:

Date:

Date:



#### TRAFFIC MANAGEMENT PLAN (TMP) - FULL FORM

Use this form for complex activities. Refer to the NZ Transport Agency's Traffic control devices manual, part 8 Code of practice for temporary traffic management (CoPTTM), section E, appendix A for a guide on how to complete each field.

Organisations /TMP	TMP reference: ATMS 2022-632	Contractor (Working space): As per attached list		Principal (Client): Wellington Water				
reference		Contractor (TTM): As per attached list	RCA: Porirua	RCA: Porirua City Council				
	Road names and Suburb				Road	Speed Limit		
Location details and road	NUC	au names and Suburb	Fre	om and to	level			
characteristics	Various within the F	Porirua City Region		Various		30/40/50/60 /70/80km/h		
	AADT		Peak f	lows				
				Start		End		
Traffic details (main route)		Various				9:00am		
			PM	4:00pm		7:00pm		

Description	of work activity	
Non excava	ation works not needing site specific:	
Only appro	ved contractors listed on Tmp are covered under Globa	I Car.
	RACTORS ARE TO NOTIFY THE RCA PRIOR TO CARRY	
	I work carried out may involve having 1 to 2man onsite inclu-	
This work v	vill cover inspections / maintenance / locates that can b	e completed on the same day.
1. Loo	cating council assets.	
2. Po	or water quality needing to flush hydrants.	
3. Op	eration of hydrants and valves on the same day.	
	drant flow testing and painting.	
	ak detection to locate leaks on the 3 waters network.	
	ak detection surveys.	
	irk outs.	
	ter reading.	
	TV inspections that will be completed on the same day.	
	ecking condition of Wastewater / Stormwater assets.	
	noke / Dye testing on Wastewater / Stormwater assets to ide	
	s work can take between 2 – 4 hours and will cover set local	
	tallation and maintenance of monitoring equipment into mar	inoles to measure flow and overflows from the
-	astewater network.	
	ing manhole covers to check assets running clear. earing Wastewater / Stormwater blockages.	
	gular fortnightly / monthly flushing for the 3 waters that can l	a completed within 3 to 6 hours
	Ivert / intake clearing.	be completed within 5 to 6 hours.
	nual pit cleaning.	
17.701		
		ר
	[APPROVED]	
	CAR E910687	
	Phil Gollings STMS Number 148577	

CM.



#### Crews and Sub contractors must adhere to the following:

- Ensure proper traffic and pedestrian management is in place.
- Set up correct Tmd to suit the work site.
- Safety induction is carried out as per RCP process
- Ensure safety is adhere to at all times.
- Ensure all efforts are made to minimise disruption to residents, business and pedestrians.
- Make sure relevant documents are onsite.
- Provide photos showing a wide street view of location.
- Photos of Work carried out.
- Clear notes of what work was carried out.
- Site is packed up and left clean and tidy.

#### Work Vehicles onsite at various stages of work but not limited to:

- 1 to 2 service vehicles equipped with beacons onsite along with any small plant and equipment to complete the work.
- Hydro Vac Truck / Digger / Jet Flusher maybe utilised.
- Traffic management vehicles if unable to set up own traffic.









Planned work program	nme						
Start date	01/01/2023	Time	See Below	End date	31/12/2023	Time	See Below
Consider significant	Residential Roads						
stages, for example:	Installation: 7:00am – 7:30am or whenever site is installed.						
road closures	Site Active: 7:30am – 17:30pm						
detours	Site Removal: 17:30pm – 18:00pm						
<ul> <li>no activity periods.</li> </ul>	NIG	HTWO	RKS ARE NO	T PERMITTE	D IN RESIDENTIAL AREAS	S	
				Main Road	1		
		Installat	tion: 9:00am	-9:30am or w	henever site is installed		
			Site Ac	tive: 9:30am	– 15:30pm		
			Site Rem	oval: 15:30pr	m – 16:00pm		
	Ins	stallatio	n: 19:00pm -	- 19:30pm or	whenever site is installed		
			Site Ac	tive: 19:30pn	n – 5:00am		
			Site Rei	moval: 5:00aı	m – 5:30am		
	Tł	nis TMP	is to cover 1	day attended	d non - excavation works.		
			0.000				
	Road Space Booking     Location/Addres		nclude:				
	Dates/Times of	Dates/Times of works – attended					
	TMP & Diagram	(s) used	I				
	Reasons for work	rks/TTM	remaining in	place, longer t	than 1 day		
	<ul> <li>Photos of the active site set up (these photos are to include both ends of the site (inclusive of any side roads), pedestrian/cycle management and the working area.</li> <li>Based on the photos provided, if the incorrect TTM has been installed (and/or considered dangerous) and/or outside of the approved TMP requirements, a Notice of Non-conformance may be considered</li> <li>A site specific TMP is required for/when:         <ul> <li>The generic TMD does not suit/fit the site</li> <li>A road closure or one way system (partial road closure)</li> <li>Bemoval of mobility parking</li> </ul> </li> </ul>						
	<ul> <li>Removal of mobility parking</li> <li>Unattended sites required</li> </ul> Plans F2.16 and F2/4 must be approved by TMC. Any changes to the approved TMP must be documented on the Onsite Record.						





WAKA KOT		RCA consent (eg CAR/WAP) and/or RCA contract reference	
	Parking Restrict		Ahrs prior to works commencing. Parking restriction
	-	w actual work times and dates.	
		<b>DNLY</b> :- vehicles may require towing.	
	Porirua City Cour	ncil to be contacted : 04 237 5089	
	Kerb Side Collec	tion:	
		on occurs Monday to Friday. Works to rsonnel to assist with the collection.	halt when kerb side collection vehicle is working in the
		ssessment is to be applied prior to sel	ecting/installing TMDs. attached) is to be completed prior to using the GTMP.
			, <b>.</b> .
	1.00		
	A.		
	the second second second second second	ssessment is to be applied prior to sele	
	Checki	ng-process-for-GTMPs checklist form (	attached) is to be completed prior to using the GTMP.
ALL IR	WE FIC	MANAGE	MENT SERVICES
7	2		300
	201		
	13		
1	21		1001
1	لسحت		



Section E, appendix A. Traffic management plans



RCA consent (eg CAR/WAP) and/or RCA contract reference

Type of road	On shoulder or roadside – no time limit	On live lane – up to 5 minutes	Over 5 minut
Low volume (less than 500vpd) category A or B road environment		a practising STMS of any category, and in the interim until the warrants	
Category A	Spotter optional – can be one person activity	Spotter required – minimum two person activity	
		oractising STMS of any category, in the interim until the warrants are	
	Road level	Onsite control	
	Level 1 road	TC, TC-Inspector or STMS	
	Level 2 road	L2/3 STMS, STMS-NP, or TC- Inspector	Inspection no
Category B	Spotter optional – can be one person activity	Spotter required – minimum two person activity	permitted.
		a practising STMS of any category, and in the interim until the warrants	Must use a mobile, semi- static, or stati closure.
	Road level	Onsite control	ciosule.
	Level 1 road	TC, TC-Inspector or STMS	
	Level 2 road (shoulder, roadside or on the lane with speed 60km/h or less)	L2/3 STMS, STMS-NP or TC- Inspector	
	Level 2 road (on the lane with speed 70km/h or more)	L2/3 STMS or STMS-NP	
Category C	Spotter optional – can be one person activity: Onsite control must be by either a practising STMS (C) or an Inspector (and in the interim until the warrants are phased out, a L2/3 STMS, STMS-NP, or TC- Inspector).		



Section E, appendix A. Traffic management plans

WAKA KOTAHI	Image: matrix and/or RCA contract reference
	General rules (apply to all the above)
	Inspectors must move to avoid traffic. They must not expect traffic to move or slow down to avoid them.
	There must be CSD to the Inspector when on the live lane.
	On busy roads where traffic volumes and speed affect access to the live lane, peak periods should be avoided or a higher level of TTM considered.
	Crossing a level LV, 1 or 2 road does not constitute being on a live lane but crossing a level 3 road does, unless a pedestrian crossing facility is being used.
	Vehicle
	Advance warning in the form of an inspection vehicle fitted with one and preferably two amber flashing beacons and a rear-mounted sign indicating the type of activity taking place must be positioned in advance of the inspection site.
	A vehicle is not required on a level LV or level 1 road with a permanent speed of less than 65km/h If the inspector remains on a footpath.
	On roads with a permanent speed of less than 65km/h an amber flashing beacon is not required on the vehicle if the inspector or non-invasive works is on an unsealed shoulder (or further away from the carriageway - including a footpath).
	Spotter
	A spotter is not required for inspections and non-invasive works on level LV roads.
	Unless otherwise approved by the RCA, all inspections on the live lane of level 1 and level 2 roads require a spotter. The RCA may provide a list of level 1 roads, times and/or activities suitable for inspection by a single inspector (eg where no level LV roads have been declared by the RCA)
	Where an unaccompanied inspector is not able to maintain adequate attention (eg due to work tasks or poor visibility), a spotter will be required or another type of traffic management operation used.
Alternative dates if N/A activity delayed	A – works will be carried out within the times/dates as listed.

Road aspects affected (delete either Yes or No to show which aspects are affected)					
Pedestrians affected?	Potentially	Property access affected?	Potentially	Traffic lanes affected?	Potentially
Cyclists affected?	Potentially	Restricted parking affected?	Potentially	Delays or queuing likely?	Potentially

#### Proposed traffic management methods



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Phil Gollings
STMS Number 148577

WAKA KOT NZ TRANSPORT AGENCY	AHI ACA consent (eg CAR/WAP) and/or RCA contract reference			
	STMS to contact Metlink (0800 801 700) for any works on a bus route or impacting bus stops 30 mins prior to installation.			
	<ul> <li>STMS to contact WTOC (0800 869 286) for any works affecting or close to traffic signals 30 mins prior to installation.</li> </ul>			
	Once on site, the TMP will be implemented as follows:			
	<ul> <li>Identify public safety and site safety hazards and how they will be addressed and place on the hazard document for 'toolbox' briefing</li> </ul>			
	STMS to check the TMP is appropriate to the worksite.			
	<ul> <li>All vehicles are to have correct signage and flashing beacons. They also need to have continuous and appropriate communication with the STMS and each other on an agreed channel at all times</li> </ul>			
	Work vehicles required on site will be parked within the site or parked legally nearby.			
	Mobile Operations or inspection activities may be required to turn on/off water valves.			
Installation (includes parking of plant and materials storage)	Layout Procedure Installation of the site will be done under a level 1 mobile closure with appropriate work vehicles and crew.			
	<ol> <li>A site drive through will be conducted first to confirm layout, conditions and environment are all appropriate for works to proceed.</li> </ol>			
	2. Vehicle positioning will be as far to the left as practical and the installation vehicle will be stationary at the installation of each sign, with activity occurring only on the non-traffic side of the vehicle.			
	<ol> <li>Advanced warning signage will be installed first on the left, followed by progressive signage installation in a 'loop' fashion around the site area.</li> </ol>			
	4. Once ALL signage for the site has been installed delineation and direction signage will be installed in the following order;			
	a. Longitudinal Delineation (Along the lane)			
b. Tapers (Shifting) & RD6 signage c. Tapers (Merging) & RD6 signage				
	Once all delineation is installed and prior to personnel, vehicle, plant and machinery populating the worksite, a drive through check must be performed by the STMS to ensure the site has been set up			
	the following order; a. Longitudinal Delineation (Along the lane) b. Tapers (Shifting) & RD6 signage c. Tapers (Merging) & RD6 signage Once all delineation is installed and prior to personnel, vehicle, plant and machinery populating			





Section E, appendix A? Traffic management plans

WAKA KO NZ TRANSPORT AGENCY	TAHI       □ÎIII-       RCA consent (eg CAR/WAP)         attms       and/or RCA contract reference			
	An STMS or delegated TC/TMO must be onsite at all times.			
	TC/STMS to assist pedestrians/cyclists/driveways and any resident/business driveways.			
	For Stop/Stop and Stop/Go setups, cyclists will be sent prior to any vehicles.			
	STMS/TC will complete 2 hourly site checks and document on the onsite record.			
	Works near Signals:			
	<ul> <li>Any affected signal loops must be notified to WTOC during the pre-installation call to allow them to adjust signal management.</li> </ul>			
	Works near Pedestrian Crossings:			
	TC's to guide pedestrians through/around the closure.			
	Works near a Bus Stop:			
Attended (day)	Bus stop integrated into MTC Stop Point			
	TC's on stop/go are to stop each bus and assist with loading & unloading of passengers as required.			
	Bus stop signage is to direct pedestrians towards the stop point			
	Bus stop relocated away from site			
	<ul> <li>Bus stop signage is be placed to show patrons where the relocation is.</li> </ul>			
	<ul> <li>Temporary bus stop signage is to be used</li> </ul>			
	<ul> <li>Parking restrictions are to be in place at the relocated bus stop</li> </ul>			
	Works near a School:			
	School will be notified of emergency works.			
	Works will be minimized where possible at school drop off or pick up times.			
	An STMS or delegated TC/TMO must be onsite at all times.			
	TC/STMS to assist pedestrians/cyclists/driveways and any resident/business driveways.			
	For Stop/Stop and Stop/Go setups, cyclists will be sent prior to any vehicles.			
	STMS/TC will complete 2 hourly site checks and document on the onsite record.			
	Additional lighting may be required/supplied.			
	Noise will be kept to a minimum where possible.			
	Works near Signals:			
	Any affected signal loops must be notified to WTOC during the pre-installation call to allow them to     adjust signal management.			
Attended (night)	Works near Pedestrian Crossings:			
	TC's to guide pedestrians through/around the closure.			
	Works near a Bus Stop:			
	Bus stop integrated into MTC Stop Point			
	• TC's on stop/go are to stop each bus and assist with loading & unloading of passengers as required.			
	Bus stop signage is to direct pedestrians towards the stop point			
	Bus stop relocated away from site			
	Bus stop signage is be placed to show patrons where the relocation is.			
	Temporary bus stop signage is to be used			
	<ul> <li>Parking restrictions are to be in place at the relocated bus stop</li> </ul>			
Unattended (day)	An unattended site is not required for non-excavation works.			
Unattended (night)	An unattended site is not required for non-excavation works.			
Detour route	A detour route is not required or approved in the TMP			

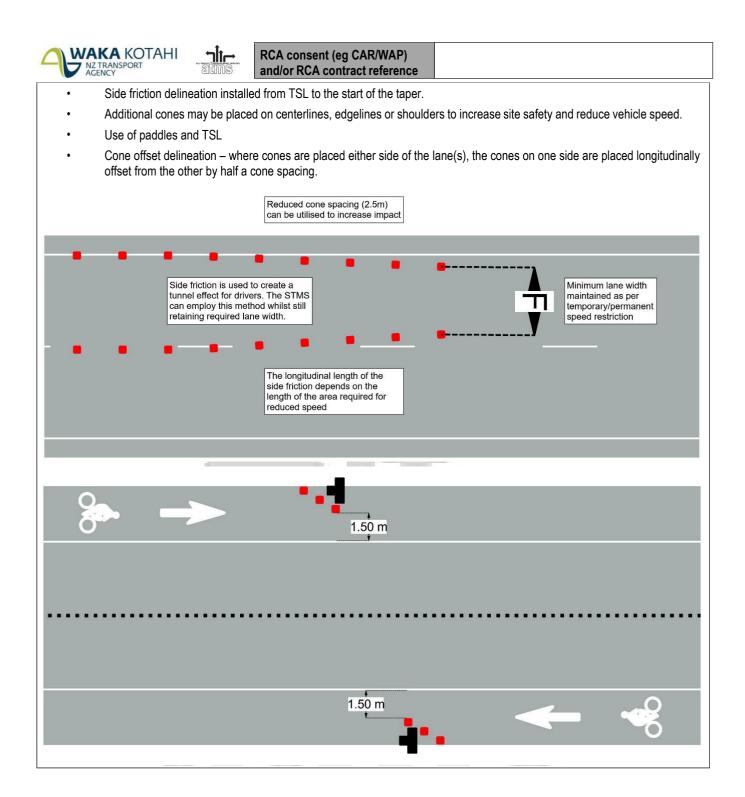


WAKA KOT NZ TRANSPORT AGENCY	AHI     Image: Constant (eg CAR/WAP) and/or RCA contract reference				
	Does detour route go into another RCA's roading network? No				
	If Yes, has confirmation of acceptance been requested from that RCA? No Note: Confirmation of acceptance from affected RCA must be submitted prior to occupying the site.				
	STMS to contact Metlink (0800 801 700) upon site removal				
	STMS to contact WTOC (0800 869 286) upon site removal.				
	Work plant / vehicles to be removed from site before closure is removed				
	Removal of the site will be done under a level 1 mobile closure with appropriate work vehicles and crew.				
Removal	<ol> <li>Workspace delineation to be removed first (by either removing to the kerb for later collection or directly onto a stationary working vehicle)</li> </ol>				
	2. Centreline delineation may now be removed using the same method as installation				
	<ol> <li>Once all delineation is removed – sign removal may commence in a clockwise 'loop' fashion (leaving advanced warning signage in place till last)</li> </ol>				
	4. A full site check being conducted prior to site departure.				
	The STMS will carry out the final check before leaving the site.				

Proposed TSL	Proposed TSLs (see TSL decision matrix for guidance)				
	TSL details as required Approval of Temporary Speed Limits (TSL) are in terms of Section 6 of Land Transport Rule: Setting of Speed Limits 2017, Rule 54001/2017 (List speed, length and location)	<b>Times</b> (From and to)	Dates (Start and finish)	Diagram ref. no.s (Layout drawings or traffic management diagrams)	
Attended day/night	A temporary maximum speed limit is hereby fixed for motor vehicles travelling over the length of situated between(house no./RP) and (house no./RP) on(street or road name) STMS to document on the Onsite Record daily.	7am – 6pm Or 9am – 4pm Or 7pm – 5:30am	01/01/2023	F2.11, F2.12, F2.13, ATMS02, F2.14, ATMS04, F2.22, F2.15, F2.16, F2.17, F2.18, F2.19, F2.20, F2.21, F2.30, F2.31, F2.8, F2.9, ATMS03, J2.19a, J2.20a, J2.20b, J2.20c, J2.20d, J2.20e,	
Unattended day/night	A temporary maximum speed limit is hereby fixed for motor vehicles travelling over the length of situated between(house no./RP) and (house no./RP) on(street or road name)	N/A	N/A	N/A	
TSL duration	Will the TSL be required for longer than 12 months? <i>If yes</i> , attach the completed checklist from section I-18: C Processes for TSLs to this TMP.	Guidance on TMP I	Monitoring	No	

Positive traffic management measures







Section Eirappendix A: Traffic management plans





Generic Major Incident		
incidents     Significant prope	ble injury - real or potential erty damage, or ices (police, fire, etc) require	<ul> <li>Actions The STMS must immediately conduct the following: <ul> <li>stop all activity and traffic movement</li> <li>secure the site to prevent (further) injury or damage</li> <li>contact the appropriate emergency authorities</li> <li>render first aid if competent and able to do so</li> <li>notify the RCA representative and / or the engineer</li> <li>under the guidance of the officer in charge of the site, reduce effects of TTM on the road or remove the activity if safe to do so</li> <li>re-establish TTM and traffic movements when educed the under the guidance or under the site. </li> </ul></li></ul>
	s - real or potential uiry accident that has the t traffic flow	<ul> <li>advised by emergency authorities that it is safe to do so</li> <li>Comply with any obligation to notify WorkSafe.</li> <li>Actions The STMS must immediately conduct the following: <ul> <li>stop all activity and traffic movement if required</li> <li>secure the site to prevent the prospect of injury or further damage</li> <li>notify the RCA representative and / or the engineer</li> <li>STMS to implement a plan to safely remove TTM and to establish normal traffic flow if safe to do so</li> <li>re-establish TTM and traffic movements when it is safe to do so and when traffic volumes have reduced.</li> </ul></li></ul>
to remove or reduce to established a dotour re- likely for: • excessive delays design for TTM • redirecting one do • total road closured such time that tra- tailbacks have be The risks in the type of risks inherent in the do closure and availabiliti need to be considered The detour and route • pre-approval for be used or affect • ensure that TTM	of work being undertaken, the letour, the probable duration of ty and suitability of detour routes	<ul> <li>Actions</li> <li>When it is necessary to implement the pre-planned detour the STMS must immediately undertake the following: <ul> <li>Notify the RCA and / or the engineer when the detour is to be established</li> <li>Drive through the detour in both directions to check that it is stable and safe</li> <li>Remove the detour as soon as it practicable and safe to do so and the traffic volumes have reduced and tailbacks have cleared</li> <li>Notify the RCA and / or the engineer when the detour has been disestablished and normal traffic flows have resumed.</li> </ul> </li> </ul>

Section E, appendix A: Traffic management plans

WAKA KOT	AHI <u>fir</u> atins	RCA consent (eg CAR/WAP) and/or RCA contract reference				
	Note also the requirements for no interference at an accident scene:					
		In the event of an accident involving serious harm the STMS must ensure that nothing, including TTM equipment, is removed or disturbed and any wreckage article or thing must not be disturbed or interfered with, except to:				
	• save a life of	prevent harm to or relieve the suffering	g of any person, or			
	make the site safe or to minimise the risk of a further accident; or					
	<ul> <li>maintain the access of the general public to an essential service or utility, or</li> </ul>					
	<ul> <li>prevent serious damage to or serious loss of property, or</li> </ul>					
	• follow the direction of a constable acting in his or her duties or act with the permission of an inspector.					
Other contingencies to be identified by	This will be deterr have been cleare		achievable works will stop until emergency or delays			
the applicant (i.e. steel plates to quickly cover excavations)	Should signals or e-STOPs fail – Manual Traffic Control is to be installed immediately (refer to F2.14 & F2.22).					
,	<u> </u>					

Authorisations						
Parking restriction(s)	Will controlled street parking be affected?	Yes (potentially)	Has approval been granted?	N/A		
alteration authority	Site Specific TMP will be submitted if mobility pa	arking is affected.				
Authorisation to work at permanent		Yes (potentially)	Has approval been granted?	No		
traffic signal sites	WTOC to be notified 30 mins prior to site installa	ation and upon re	emoval.			
Road closure	Will full carriageway closure continue for more than 5 minutes (or other RCA stipulated time)?	No	Has approval been granted?	No		
authorisation(s)	N/A					
Bus stop relocation(s) –	Will bus stop(s) be obstructed by the activity?	Yes (potentially)	Has approval been granted?	No		
closure(s)	Metlink will be notified 30 mins prior to installation and upon removal.					
Authorisation to use portable traffic signals	Make, model and description/number 62 62 62 63	ortable Traf 7 - 1, 627 - 8 - 1, 628 - 9 - 1, 629 - 0 - 1, 630 - 1 - 1, 631 -				
	NZTA compliant? Yes					

EED			
Is an EED applicable?	EED is not required	EED attached?	EED is not required

Delay calculations/trial plan to determine potential extent of delays



<b>A</b>	AKA KOTAHI	RCA consent (eg CAR/WAP) and/or RCA contract reference							
e-STOP	e-STOP & Stop Go Closures:								
	Delays of up to 5 minutes can be expected due to the nature of the TTM implemented. The STMS is to take measures to ensure delays remain under 5 minutes at all times, and queues do not extend past the advance warning signage.								
If delays	are occurring or excessive queue	ng is apparent, the STMS is to implem	ent one of the following contingency plans;						
1)	Traffic Metering								
	Send only a specific amount of v	ehicles per side instead of clearing the	entire queue						
2)	Pause works and open site								
	Make the site safe, remove plant	and vehicles from the carriageway and	d open the tapers						
3)	Prioritise high flow route								
	Send vehicles from the approach	with the highest flow first. Hold side st	reet traffic for slightly longer if required.						
4)	Install additional signage								
	Install T2A/T234 "Warning – Hidden Queue" signage up to 2xB from the initial advance warning signage for additional advance warning								
STMS w	STMS will continuously monitor for delays – TMC will be notified of any excessive delays.								
Public n	otification plan								

A letter drop to residents and businesses is to be completed 5 working days prior to works commencing.

WTOC notification for any works which are in close proximity to traffic signals and/or for a communications plan on permanent VMS within Porirua City region.

Public notification plan attached? No

On-site monitoring plan				
	An STMS or delegated TC/TMO will be on site at all times.			
Attended (day and/or night)	2 Hourly Site Checks to be documented on the on-site record.			
(uay anu/or mgm)	STMS/TC to monitor and assist pedestrians, cyclists and driveways when needed.			
Unattended (day and/or night)	An unattended site is not required for non-excavation works.			

Method for recording daily site TTM activity (eg CoPTTM on-site record)

- Hazard ID sheet
- CoPTTM on-site record.
- Checking process for Generic TMPs form to be completed prior to set up of a worksite when using this TMP.

#### Site safety measures

- All visitors/contractors to be inducted and hazard ID completed
- PPE gear to be worn by all on site

Traffic control devices manual part 8 CoPTTM

- Toolbox meeting to be held prior to work commencing.
- Arm bars to be installed around the work area.
- STMS/TC to monitor and assist pedestrians, cyclists and driveway access at all times when required.
- Pedestrian ramps to be installed when required.

Temporary safety barrier system	Will a temporary safety barrie system be used at this works		designed	s the temporary safety barrier by an installation designer a ently reviewed as being fit for	nd	N/A
	Statement from temporary sa	fety barrier ins	tallatio <mark>n des</mark> ig	ner attached	N/A	
		CAR E91068 <sup>-</sup> Phil Gollings STMS Numbe				

Sect	on E, appendix A: Traffic man	agement plans
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Other information

## LEVEL 1 LAYOUT DISTANCES TABLE

des	manent speed limit		≤50	60	70	80	90	100
Tra	ffic signs							
A	Sign visibility dista	nce (m)	50	60	70	80	90	100
В	Warning distance	(m)	50 or 30*	80	105	120	135	150
C	Sign spacing (m)		25 or 15*	40	50	60	70	75
Saf	ety zones							
D	Longitudinal (m)		10 or 5*	15	30	45	55	60
Ε	Lateral (m)		1	1	1	1	1	1
Тар	bers							
G	Taper length (m)*		30	50	70	80	90	100
Κ	Distance between	tapers (m)	40	50	70	80	90	100
De	lineation devices							
			2.6	2.5	5	5	5	5
Cor	ne spacing in taper (	m)	2.5	2.5	2	5	2	2
C or	ne spacing: Working arger minimum dist	space (m) ances apply on a	5 all state highw	5 /ays and a	10 also on all	10 multi-lane	10 roads. Th	10 e smalk
Cor * L # C b C 1	ne spacing: Working	space (m) ances apply on a nay be applied of ys with speeds are road environ houlder width is is permitted (wi	5 all state highw on other roads 50km/h or les ment constrai less than 2.5r ith at least 5 o	5 vays and a to accorn ss, a <b>10m</b> ints (eg ir m and the cones at n	10 also on all mmodate r taper (with tersection activity de o greater f	10 multi-lane oad enviro th cones at is and com oes not aff than 2.5m	10 roads. Th nment co t 1m centro mercial a rect the liv centres).	10 nstraint es) may coesses
Cor * L n # ( b 0 1 / (	ne spacing: Working arger minimum dist ninimum distances n On non-state highwa e used when there a On all roads where sh Om shoulder taper	space (m) ances apply on a nay be applied o ys with speeds are road environ houlder width is is permitted (wi h cones at 2.5m	5 all state highw on other roads 50km/h or les ment constrai less than 2.5r ith at least 5 c centres) <b>mus</b>	5 to accon s, a <b>10m</b> ints (eg in m and the cones at m t be used	10 also on all nmodate r taper (with tersection activity de o greater f d where ma	10 multi-lane oad enviro th cones at is and com oes not aff than 2.5m	10 roads. Th nment co t 1m centro mercial a rect the liv centres).	10 nstraint es) may coesses
Cor * L n # ( b 0 1 4 ( Lar	ne spacing: Working arger minimum dist ninimum distances n In non-state highwa e used when there a In all roads where sh Om shoulder taper taper of 30m (with stop/go), portable to	space (m) ances apply on a nay be applied o ys with speeds are road environ houlder width is is permitted (wi h cones at 2.5m	5 all state highw on other roads 50km/h or les ment constrai less than 2.5r ith at least 5 of centres) <b>mus</b> priority give w	5 to accon s, a <b>10m</b> ints (eg in m and the cones at m t be used	10 also on all nmodate r taper (with tersection activity de o greater f d where ma	10 multi-lane oad enviro th cones at is and com oes not aff than 2.5m	10 roads. Th nment co t 1m centro mercial a rect the liv centres).	10 nstraint es) may coesses

Attached Diagrams





#### Pedestrian Management

- 1. ATMS05 Pedestrian Escort (1<sup>st</sup> Choice)
- 2. F2.1 Pedestrian Diversion (berm) (2<sup>nd</sup> Choice)
- F2.2 Pedestrian Diversion (berm) (3<sup>rd</sup> Choice)
- 4. F2.3 Pedestrian Diversion (carriageway) (4<sup>th</sup> Choice)
- 5. F2.4 Footpath Closed (5th Choice) Requires TMC approval

#### Works on berm/shoulders/Lane Width Reduction

- 6. CC1 Works on berm or footpath
- 7. CC2 Traffic not crossing road centre
- 8. CC3 Works on berm or footpath vehicle parked on berm
- CC4 Footpath diverted onto shoulder or parking lane
- 10. CC5 Footpath
- 11. F2.5 Works on berm
- 12. F2.6 Works on parking lane
- 13. F2.7 Shoulder Closure
- 14. F2.11 Lane Width Reduction
- 15. F2.12 Lane Width Reduction (median)

#### Inspection Activities

- 16. F4.10 Inspection Activity
- 17. ATMS07 Inspection Activity Centre of Road

#### Lane Closures/Diversions/e-STOP/MTC/Traffic Lights/Centre Of Road

- 18. F2.13 Two Lane Diversion
- 19. ATMS02 -2 Way e-STOP
- 20. F2.14 2 Way MTC
- 21. ATMS04 e-STOP with MTC
- 22. F2.22 3-4 Way MTC
- 23. F2.15 Stop Stop
- 24. F2.16 Priority Give Way Requires TMC approval
- 25. F2.17 Traffic Lights
- 26. F2.18 Works in centre of road
- 27. F2.19 Intersection
- 28. F2.20 Intersection
- 29. F2.21 Works in middle of intersection
- 30. F2.30 Left Lane Closure (1 way, 2 lane)
- 31. F2.31 Right Lane Closure (1 way, 2 lane)

#### **Mobile Operations/Semi Statics**

- 32. F4.1 Mobile Operation 5m from edgeline
- 33. F4.2 Mobile Operation within 5m of edgeline
- 34. F4.3 Mobile Operation with pilot
- 35. F4.4 Mobile Operation work vehicle in lane
- 36. ATMS06 Semi Static (right or left lane)
- 37. Mobile Closure L1 Install & Removal

#### Cycle Lanes

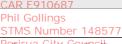
- 38. F2.8 Cycle Lane Diversion
- 39. F2.9 Cycle Lane Diversion
- 40. ATMS03 Cycle Lane e-STOP

# APPROVE

Phil Gollings

31 January 2023

RA.



## MANAGEMENT SERVI





Section J diagrams

- 41. J2.16a 42. J2.19a
- 43. J2.20a
- 44. J2.20b
- 45. J2.20c
- 46. J2.20d
- 47. J2.20e







Contact details						
	Company / Council	Name	24/7 contact number	CoPTTM ID	Qualification	Expiry date
Principle	Wellington Water	Tim Harty	021 451 104	-	-	-
ТМС	Porirua City Council	Phil Gollings	021 474917	-	-	-
Engineers' representative	Wellington Water	Valitha Roos	021 510 923	-	-	-
Service Delivery Manager	Wellington Water	Steve Watt	021 507 440	-	-	-
	ATMS	Paul Rudman	021 529 729	-	-	-
	Citycare	Wayne Kelland	027 263 8731	-	-	-
	Citycare	Mark Thompson	027 542 6244	-	-	-
	Citycare	Paul Coles	03 941 7225	-	-	-
	Dawson Waste Services Ltd	Jan Godfrey	04 528 9909	-	-	-
	Davies Waste Solutions	Evan Davies	027 283 8831			
	RS Cabling	Nathan Rose	027 275 4317	-	-	-
	SAP Contractors	Glenn Churches	027 272 1666	-	-	-
	SAP Contractors	Jonathon Manava	027 216 6651	-	-	-
	Silver Lining Contracting Ltd	Renee Wilkie	021 0828 0647	-	-	-
	Greenstone	Whai Williams	027 4430 791	-		-
	Cubic Metre	Taupau Peni	021 345 379	-		-
	Cubic Metre	Andrew McWhirter	021 345 79		- P	
	Kahu Contractors	Harold Paul	021 027 37643	-	-	-
	Jet black Asphalt	Neville Playford	027 208 9309		sobre <del>,</del> nation	10.00
	GP Friel	Dave Phillipson	022 657 2402	614 2	COLUC	10.00
Contractor	Detection Services	Tim Armstrong	027 4576 113	001.2	ICR3/IC	10.00
Interim	Detection Services	Ross Beckett	04 915 0530	10 - T	See .	-
Contacts	E Carson & Sons	Eddie Carson	027 442 4343	- G 14		-
	AD Riley & Co Ltd	Chris Parkinson	021 305 637	-	- CO.	-
	P & N Siteworks	Peter Lindsey	027 2358 363	Sec. 1		-
	Central Plumbing (Wellington) Ltd	Anthony Eden	022 6385 704	22	J	-
	WAL Gordon Plumbing	Wal Gordon	027 2114 007	-	-	-
	Cardno NZ Ltd	Jane Nichols	021 199 5917	-	-	-
	Intergroup	Wayne Carling	027 239 7187	-	-	-
	Intergroup	Kerrod Foaese	021 133 5973	-	-	-
	G P Friel Ltd	Dave Philipson	022 657 2402	-	-	-
	Southeys Group	Leonard Vertigans	027 275 4315	-	-	-
	S & R Asphalts Ltd	Scott Hay	027 440 2405	-	-	-
	Multi Civil Contractors Limited	Cody Pepere	027 322 6483	-	-	-
	Hydrotech Group	Neil Cherry	021 730 502	-	-	-
	Hydrotech Group	Paul Reynolds	021 730 486	-	-	-
	Quik-Shot Trading as AES	Eddy Warda	022 018 0705	-	-	-
	HCC Trade Waste Team	CAR E910687 PakauoTanirau STMS Number 14	027 2 <mark>441 6376</mark> 8577	-	-	-

Traffic control devices manual part 8 CoPTTM

Section E, appendix A: Traffic management plans

GM.

	HCC Trade Waste Team	David Fahey	027 642 3345	_	-	
	Drain Doctors	lan Pauley	04 566 9252	_	-	<u> </u>
	Wellington Pipelines	James Fruean	027 499 9223	_	-	-
	PTS	Bux Manuseuga	027 836 5243	-	_	-
	Mottmac	Patrick Wharewera-Jones	027 746 8395	-	-	-
	Mottmac	Matthew Cooper	021 688 013	-	-	-
	Vac U Digga	Kathy Fandham	021 246 3615			
	Ace Drain Unblockers	Rudolf Roppl	027 249 7492			
	Concrete Cutting NZ	Aldon Solomon	021 737 674			
	Contract Sealing	Chris Curtis	027 487 3726			
	Concrete Solutions Ltd	Cameron Dearlove	021 744 317			
	Construction Contracts Limited	Stove Serimebow	(04) 567 0777			
	(CCL)	Steve Scrimshaw	(04) 567 9777			
	E N Ramsbottom Ltd Horokiwi Paving	Michelle Hoffman	027 471 6246			
	Limited	Peter Green	027 443 2206			
	McCormack Group	Willy McCormack	027 449 3985			
	PCL Contracting Ltd	Luke Lee	027 210 2079			
	Podium Concrete	Bradley Roberts	(04) 237 9595			
	Pope & Gray	Jeremy Gray	027 466 5538			
	Precision Concrete Pumping & Spraying Limited	Steve Graham	027 233 1794			
	Rob's Concrete Cutting	Robert Betty	021 631 957			
	Shane McGrath Contracting	Shane McGrath	027 493 8911			
	Solid Art Concrete	Nui Ririnui	022 126 2130			
	TQ Concrete Placers Ltd	Tom Paki	027 404 2032		(120) 112 2	
	ATMS	Vena Lam Sam	021 767 165	39930	(ABC)-NP R L2/3 P	22/09/2
	ATMS	Martyn Sauaiga	027 348 9478	72781	L 2/3 NP	30/07/2
	PTS	Bux Manuseuga	027 836 5243	-	-	-
	Wellington Water	Steve Watt	021 507 440	-	-	-
	Citycare	Wayne Kelland	027 263 8731	-	-	-
	Citycare	Mark Thompson	027 542 6244	-	-	-
	SAP Contractors	Glenn Churches	027 272 1666	-	-	-
	SAP Contractors	Jonathon Manava	027 216 6651	-	-	-
	Silver Lining	Bill Wilkie	021 082 20647	-	-	-
	Greenstone	Whai Williams	04 566 0890	-	-	-
	Cubic Metre	Taupau Peni	021 345 379	-	-	-
	Jet black Asphalt	Neville Playford	027 2089309	-	-	-
TTM Interim	Cardno NZ Ltd	Jane Nichols	021 199 5917	-	-	-
Contacts	RS Cabling HCC Trade Waste Team	Nathan Rose	027 <mark>2</mark> 75 4317	-	-	-

Page 18 R.M.

		A consent (eg CAR/W d/or RCA contract refe				
	HCC Trade Waste Team	David Fahey	027 642 3345	-	-	-
	P & N Siteworks	Peter Lindsey	027 2358 3637	-	-	-
	Central Plumbing (Wellington) Ltd	Anthony Eden	022 6385 704	-	-	-
	Detection Services	Tim Armstrong	027 4576 113	-	-	-
	Quik-Shot Trading as AES	Eddy Warda	022 018 0705	-	-	-
	Hydrotech Group	Neil Cherry	021 730 502	-	-	-
	Hydrotech Group	Paul Reynolds	021 730 486	-	-	-
	Intergroup	Wayne Carling	027 239 7187	-	-	-
	Intergroup	Kerrod Foaese	021 133 5973	-	-	-
	Shepherd Traffic Management Solutions	Richard Shepherd	029 777 9099	-	-	-
	Men At Work	Kurt Puryer-Smith Todd Lynch	027 274 2369 027 282 0998			
		Ratu Kapaiwai	027 514 9675			
	TPlans Limited	Tayla Varcoe	021 717 592			
	Traffic Safe	Julie Hitchock	027 450 6565			
	Traffic Management NZ Ltd	lan Satherley	021 400 023		100	
	WTOC		0800 869 286	-		-
Others as	Metlink Contact	Centre	0800 801 700	-	1	-
required	Porirua City Council Corridor Access Officer	Felise Tavo	027 803 0470	-	<u>-</u>	-

TMP preparation					
Dylan Green	19/12/2022	DGreen 68522	L 2/3 NP -	17/03/2023	
-21	- 17	9 19 1			
10					
1911	1		$\langle \bigtriangledown \rangle$		
		Dylan Green 19/12/2022	Dylan Green         19/12/2022         D Green         68522	Dylan Green         19/12/2022         DGreen         68522         L 2/3 NP         -	

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STMS Number 148577

Section E, appendix A: Traffic management plans

WAKA KOT NZ TRANSPORT AGENCY	TAHI <u>tir</u> atims		RCA consent (eg CAR/WAP) and/or RCA contract reference					
	Name (STMS quali	fied)	Date	Signature	ID no.	Qualification	TTMP	Expiry date

\* additional column added to indicate the attended (or confirmed booking) date of the named designer on the NZTA Temporary Traffic Management Planners (TTMP) workshop as required by the NZTA technical note, issued 9 December 2019

This TMP meets CoF	PTTM requirements		Number of	f diagrams atta	ched	47	
TMP returned for							
correction (if required)	Name	Date	Signature	ID no.	Qualification		Expiry date
Engineer/TMC to complete following section when approval or acceptance required							
Temporary safety barrier system	The attached temporary road safety barrier design has been independently reviewed as being fit for purpose Not required						
TMP Approved	Name	Date	Signature	ID no.	Qualifi	ication	Expiry date
Acceptance by TMC (only required if TMP approved by engineer)	1.4						
	Name	Date	Signature	ID no.	Qualifi	ication	Expiry date

#### Qualifier for engineer or TMC approval

Approval of this TMP authorises the use of any regulatory signs included in the TMP or attached traffic management diagrams.

This TMP is approved on the following basis:

- 1. To the best of the approving engineer's/TMC's judgment this TMP conforms to the requirements of CoPTTM.
- 2. This plan is approved on the basis that the activity, the location and the road environment have been correctly represented by the applicant. Any inaccuracy in the portrayal of this information is the responsibility of the applicant.
- 3. The TMP provides so far as is reasonably practicable, a safe and fit for purpose TTM system.
- The TML provides so far as is reasonably practicable, a safe and it for purpose TML system.
   The STMS for the activity is reminded that it is the STMS's duty to postpone, cancel or modify operations due to the adverse traffic, weather or other conditions that affect the safety of this site.

Notification to TMC prior to occupying worksite/Notification completed									
Type of notification to TMC required	24	Notification completed	Date Time						



ON-SITE RECORD MOBILE OPERATIONS (On-site record must be completed and retained with the applied TMP for 12 months) Today's date										
STMS in charge of TTM										
Name		NZTA warrant		TTM ID Number	NZTA warrant expiry date	e STMS	STMS signature		Time	
In charge STMS pre-start check										
Mandatory Items to be checked as fit for purpose	High-visibility garments are fit for purpose, in an acceptable condition and worn correctly?		e Xenon (or Beacons are fit for Se?	Hori boa	S/RD6/AWVMS/VMS/ izontal arrow rds are fit for pose?	TMAs are fit for purpose		radios available, OK and batteries harged	operation	gns for work are fitted to all nd are fit for
Time the check was completed:		In char signati	rge STMS ure:							

Affected	Work Activity Timing			
Affected Road name(s)	Worksite start point	Worksite end point	Start	End
	CAR E910687 Phil Gollings	ED		
	STMS Number 148 Porirua City Counc Section E, appendix A: Traff	il		

TMP or generic plan reference
-------------------------------

**Checks** (must be completed and documented at least every 30 minutes)

Mobile closure

Time	Distances between vehicles maintained	Lateral positioning of vehicles maintained	LAS/RD6/AWVMS/VM arrowboards continu correctly		Road clear and available for planned work?	Static equipment maintained?	Safety zones maintained?	Working space adequa and maintained?
Comments	relating to any changes	and or improvements	to the approved TTM	ТМР				
Time of comm								
				APPRC CAR E910687				
				Phil Gollings STMS Number Porirua City C	ouncil			
ic control device	<i>s manual</i> part 8 CoPTTM		Section	E, appendix A: 31 January 20	Traffic management plans Page 2	5		Edition 4, April 2020

WAKA P NZ TRANSP AGENCY	COTAHI TMP or generic plan reference		
AGENCY			
ON-SITE REC On-site record	<b>CORD</b> must be retained with TMP for 12 months.		Today's date
Location details	Road names(s):	House number/RPs:	Suburb:
Working sp	ace		
Person responsible			

Signature

Where the STMS/TC is responsible for both the working space and TTM they sign above and in the appropriate TTM box below

for working

space

Name

TTM							
STMS in charge of TTM							
	Name	TTM ID Number	Warrant expiry	y date S	Signature		Time
Worksite handover accepted by							
replacement	Name	ID Number	Warrant expiry	y date S	Signature		Time
STMS	Tick to confirm handover briefing completed						
Delegation							
Worksite control							
accepted by TC/STMS-NP	Name	ID Number	Warrant expiry date Signa		Signature		Time
	Tick to confirm briefing completed						
Temporary	speed limit						
Street/road na	me (RPs or street numbers):	TSL action	Date:	Time:	TSL speed:	Length of	TSL (m):
		TSL installed					
		TSL remains in place					
From:	To:	TSL removed					
Street/road na	me (RPs or street numbers):	TSL action	Date:	Time:	TSL speed:	Length of	TSL (m):
		TSL installed					
		TSL remains in place					
From:	To:	TSL removed					
Street/road na	me (RPs or street numbers):	TSL action	Date:	Time:	TSL speed:	Length of	TSL (m):
		TSL installed					
		TSL remains in place					
From:	To:	TSL removed					
Street/road na	me (RPs or street numbers):	TSL action	Date:	Time:	TSL speed:	Length of	TSL (m):
		TSL installed					
		TSL remains in place					
From:	To:	TSL removed APPROVEE	<u>م</u>				
		CAR E910687 Phil Gollings STMS Number 148577 Porirua City Council					
Traffic control de	evices manual part 8 CoPTTM Sec	ion E, appendix A: Traffic Page 1 31 January 2023	; management	plans		Edition 4, A	pril 2020



AGENCY								
Worksite monit	oring							
TTM to be monitore	d and 2 hourly ins	spections doc	umented below					
Items to be inspec	ted	TTM set-up	2 hourly check	2 hourly check	2 hourly check	2 hourly check	2 hourly check	TTM removal
High-visibility garme	ent worn by all?							
Signs positioned as	per TMP?							
Conflicting signs cov	vered?							
Correct delineation	as per TMP?							
Lane widths approp	riate?							
Appropriate positive	TTM used?							
Footpath standards	met?							
Cycle lane standard	ls met?							
Traffic flows OK?								
Adequate property a	access?							
Barrier deflection area is clear? (Refer to Barrier design statement)								
Add others as requi	red							
Time inspection co	ompleted:							
Signature:								
Comments:	1							
Time	Adjustment ma	ade and reas	on for change					
					<u> </u>			
				ROVED				
			CAR E9106 Phil Golling STMS Num					
			Porirua Cit		1			

Checking process for generic TMPs									
This form, or a similar company record, must be completed prior to set up of a worksite where a generic TMP is used.									
Location details									
Road name(s)			House numbe	House number/RP(s)				Suburb	Suburb
Road name(s)			House number/RP(s)		.)			Suburb	
Generic TMP reference no.		⊺MD no(s).			<b>Note:</b> The checking process must include all the TMDs to be used				
Category	Points to consider		Y	Ν	Comr	nent/Mitigati	on		
Road level	Is this at the correct road leve	el?							
	Are the following catered for TMP?	in the generic							
	Intersections	Intersections							
Shape	Vertical Curves (hills)	Vertical Curves (hills)							
	Horizontal Curves (corner	Horizontal Curves (corners)							
	Sufficient advance warnin	Ig							
	Check that there is:								
Direction and protection	• sufficient length to place the planned direction and protection								
	<ul> <li>sufficient road width to place the planned direction and protection ie minimum lane width is 2.75m</li> </ul>								
	adequate sight distance c	on both sides							
	<ul> <li>sufficient room to accommodate required positive traffic control</li> </ul>								
Dreneed enced	Is a TSL required?								
Proposed speed restrictions	Refer to the TSL decision matrix in CoPTTM (section E Appendix B)								
Plant and equipment	Will your plant and equipmer designated working space?	Will your plant and equipment fit within the designated working space?							
Personal safety		Are all workers able to carry out their work within the designated working space?							
	If not are they covered by the rules for inspections?								
Layout diagrams	• • • •	Is diagram(s) detailed in the generic TMP?							
	Does the diagram(s) match the written section of the TMP?								
RCA notification	Has the RCA been notified?								
Completed by:						Ĩ			
STMS/TC in charge of									
worksite (All names to be entered before site set-up)	Vame		Signature			D	ate	Qualification	ID number
		APP CAR FOL		VE					
	Name		lingsSignature			D	ate	Qualification	ID number
		Porirua C		incil					

## **ROAD SPACE BOOKING**

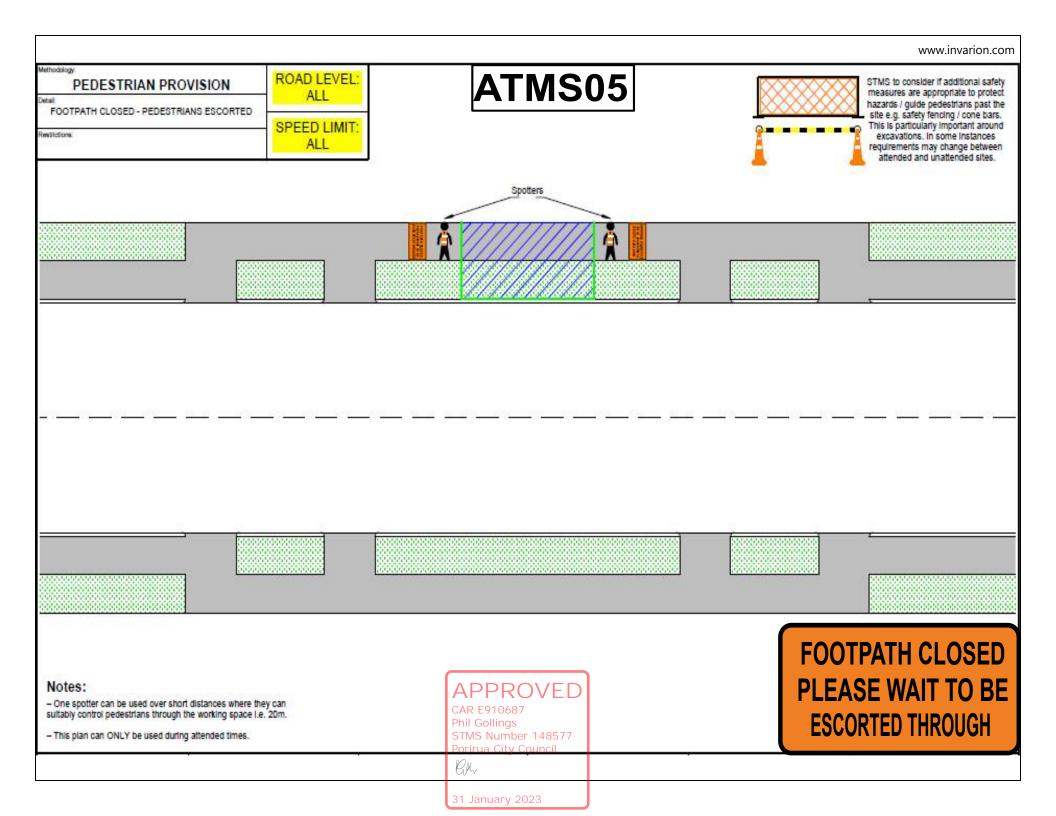
Address:							
Address.							
Contractor:				1			
Dates & Times (attended):	From:	-	То:				
Dates & Times (unattended):	From:	-	То:				
Generic TMP used:							
Diagram (s) used:							
CAR #							
Work Activity and Reasons TTM to remain in place:							
	1						
Contractor Name:							
Contractors Signature:							
Signature.							

Please attach photos of site active site set up (these photos are to include both ends of the site (inclusive of any side roads), pedestrian/cycle management and the working area.



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Porirua City Council
CM~
31 January 2023

TEMPORARY SPEED LIMIT (TSL) DECISION MATRIX WORKSHEET	chosen TSL for that road condition. Tra			Appendix B
EXCELLENT 110 100 90 1. Minimum Lane Width	AVERAGE 70	60 50	40 30 20	Temporary Speed Limit
3.5m	3.25m	3.00m	2.75m	30
2. Pavement / Surface Condition				
The shoulder and lane is clear of loose or greasy material and the traveled way is smooth	The road is close to normal condition except for a few minor defects (eg small pot holes or a few pieces of loose aggregate) <b>70km/h</b> where new seal has been swept but not marked	Defects and / or loose material on the lane (eg unattended reseals) <b>50km/h</b> for protection of a new seal	There are major defects and / or significant loose material on the lane (eg recently milled surface , large stones, steel plates)	50
3. Visibility and Alignment				
There is greater than 140m visibility to the first cone in taper, and	There is less than 140m visibility to the first cone in taper, <b>or</b>	There is less than 60m visibility to the first cone in taper, <b>or</b>	There is less than 30m visibility to the first cone in taper, <b>or</b>	
the worksite has not imposed a change in alignment	vehicles are deflected by 20 degrees or less from the original direction of travel	vehicles are deflected by 20-45 degrees from the original direction of travel	vehicles are deflected by more than 45 degrees from the original direction of trave	50
	20° 45° 45° 45° Deflected by less than 20°	20° 20° 45° Deflected by 20° to 45°	20° 20° 45° Deflected more than 45°	
4. Site Clutter				
Low site clutter, clear vehicle lanes, cycle lanes and footpaths	Some site clutter either plant or materials, vehicle lanes, cycle lanes and footpaths are lightly trafficked	Considerable site clutter requires additional management to guide vehicles though the site. Some queues of road users	Has numerous driver distractions including construction traffic. Cycle lanes or footpaths are closed. <b>30km/h</b> for portable traffic signals, MTC operations or where traffic has to traverse the actual active working space (either in a delineated single lane or where traffic is no separated from the working space)	50
	peed 80km/h or less	STMS Number 148577	nis Temporary Speed Limit	30
least 10km/h b	elow the permanent		mporary Speed Limit Required	
		21 January 2022		Click here to reset



#### FOOTPATH Footpath diverted onto berm behind working space **First preference**

Level 1

### Notes 1.Minimum pedestrian footpath Footpath widths: T Berm Residential/Rural/Suburban Centre - 1.2m • CBD - 2m 2.Where the length of the temporary footpath exceeds 20m, these widths may have to be increased so footpath users do not have to wait to pass 3. Temporary footpath surfaces must be suitable for footpath users 4.Use safety fence to enclose the working space, or at attended worksites, cones **TU32** connected with cone bars can be used to enclose the working space but only for a short period of time Note: Cone bars are not recommended where heavy equipment (eg a digger) is being used. A safety fence is preferred in these cases 5.This TMD must be used in conjunction with appropriate \* + TTM for any work carried out TU31 on the shoulder or in the live lane Footpath Berm A₽PRO\ CAR E910687 Phil Gollings STM\$ Number 148 Porirua City Counc Pur Section F

Traffic control devices manual part 8 CoPTTM

#### FOOTPATH Footpath diverted onto berm between working space and carriageway Second preference

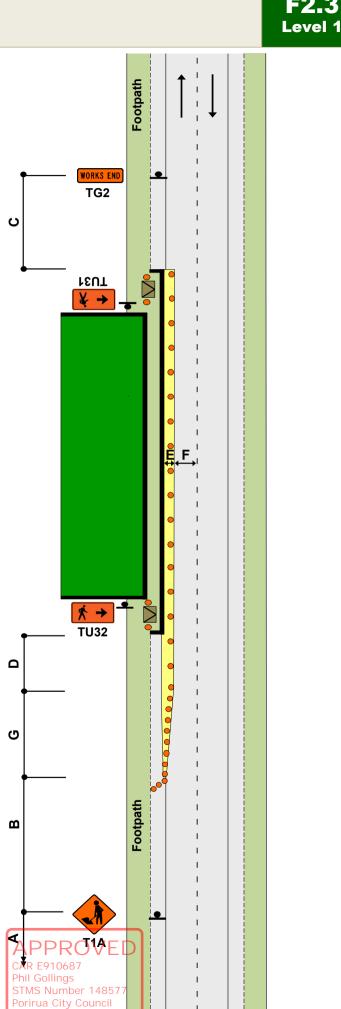
#### Notes 1.Minimum pedestrian footpath Footpath widths: Berm Berm Residential/Rural/Suburban Centre - 1.2m • CBD - 2m 2.Where the length of the temporary footpath exceeds 20m, these widths may have to be increased so footpath users do not have to wait to pass 3. Temporary footpath surfaces 15UT must be suitable for footpath ¥ → users 4.Use safety fence to enclose the working space, or at attended worksites, cones connected with cone bars can be used to enclose the working space but only for a short period of time Note: Cone bars are not recommended where heavy equipment (eg a digger) is being used. A safety fence is preferred in these cases 5.Use barrier or safety fence to delineate the traffic side of the footpath, or at attended worksites cones connected with cone bars can be used to • \* → delineate the traffic side of the **TU32** footpath for a short period of time (not for use on state highways) 6. There must be a lateral safety zone between the traffic side of the footpath and the live lane: 0.5m for barrier Im for safety fence or cone bars 7.ThisTMD must be used in conjunction with appropriate Footpath TTM for any work carried out on Berm Berm the shoulder or in the live lane APPROVED CAR E910687 Phil Gollings STMS Number 148577 Porirua City Council P.H. Section F

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#### FOOTPATH Footpath diverted onto carriageway Third preference

#### Notes

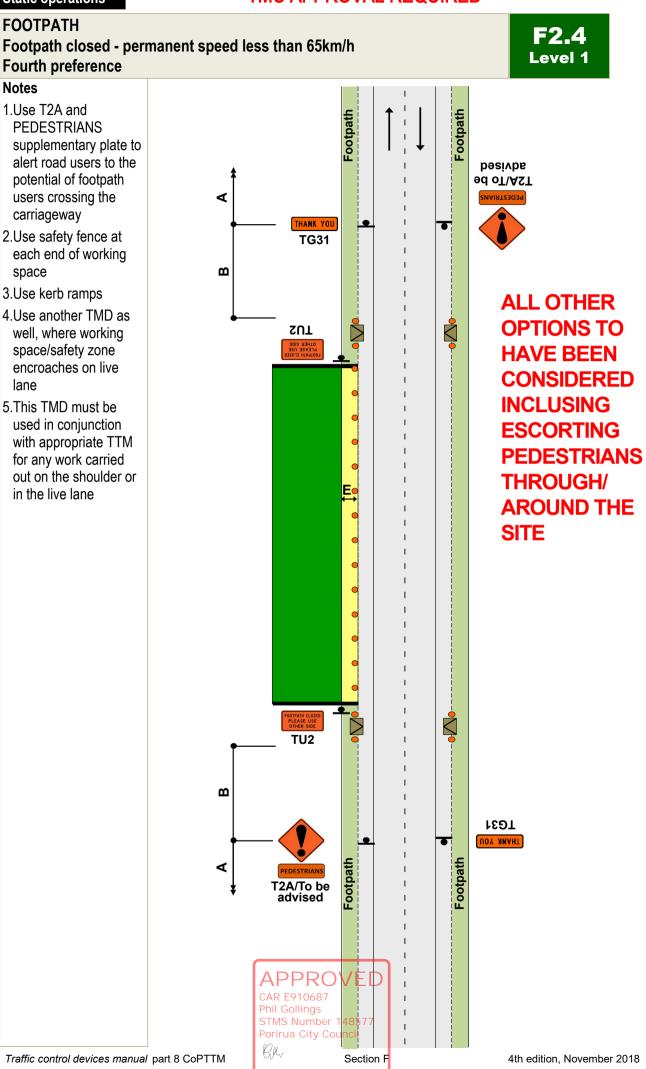
- 1.Minimum pedestrian footpath widths:
  - Residential/Rural/Suburban Centre - 1.2m
  - CBD 2m
- 2.Where the length of the temporary footpath exceeds 20m, these widths may have to be increased so footpath users do not have to wait to pass
- 3.Use safety fence to enclose the working space, or at **attended** worksites, cones connected with cone bars can be used to enclose the working space but only for a short period of time **Note:** Cone bars are not recommended where heavy equipment (eg a digger) is being used. A safety fence is preferred in these cases
- 4.Use barrier or safety fence to delineate the traffic side of the footpath, or at **attended** worksites cones connected with cone bars can be used to delineate the traffic side of the footpath for a short period of time (not for use on state highways)
- 5. There must be a lateral safety zone between the traffic side of the footpath and the live lane:
  - 0.5m for barrier
  - 1m for safety fence or cone bars
- 6.Use kerb ramps to assist mobility vehicles, pushchairs, etc
- 7.At night-time, corners of safety fence may be illuminated with flashing amber warning lights
- 8. This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane



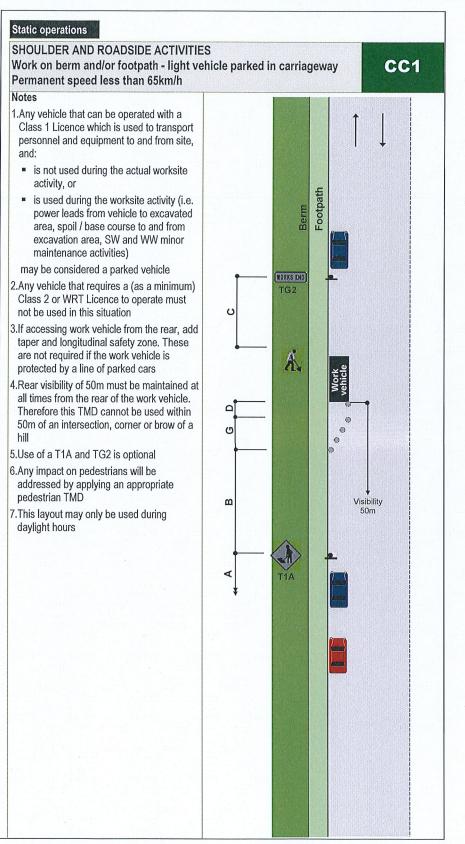
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## TMC APPROVAL REQUIRED



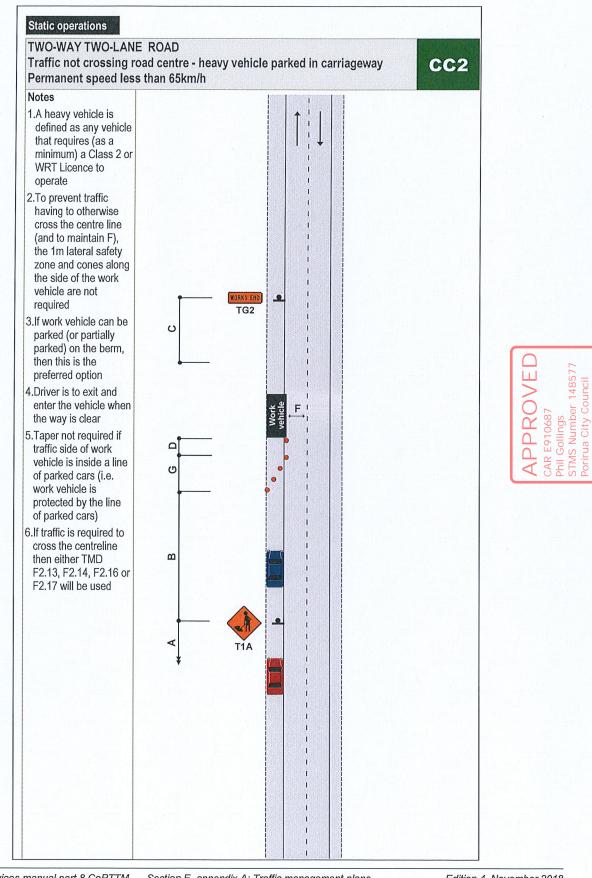
## 1. CC1 Work on berm or footpath - light vehicle parked in carriageway





Traffic control devices manual part 8 CoPTTM

# 2. CC2 Traffic not crossing road centre - heavy vehicle parked in carriageway



Traffic control devices manual part 8 CoPTTM

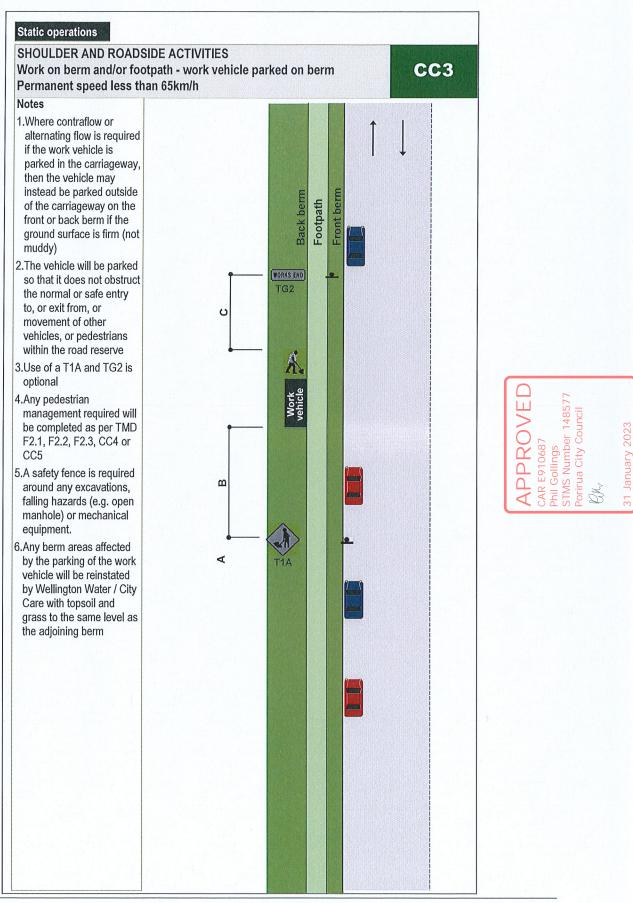
Section E, appendix A: Traffic management plans Page 10 Edition 4, November 2018

January

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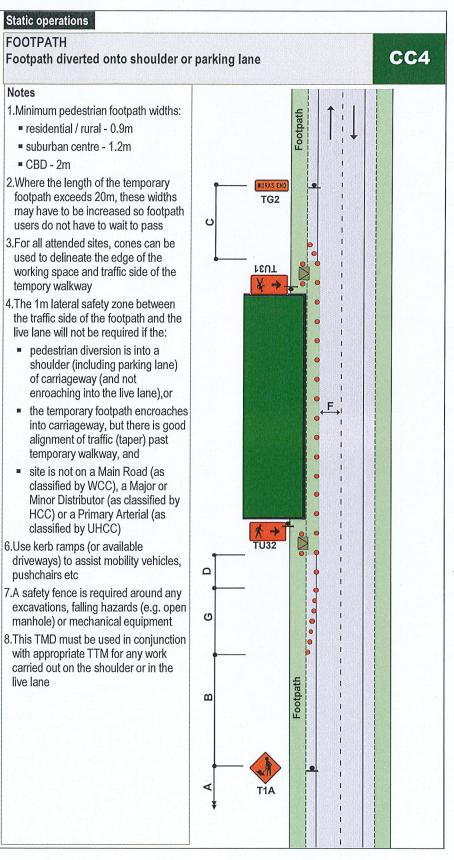
B

## CC3 Work on berm and/or footpath - work vehicle parked on berm



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## 3. CC4 Footpath diverted onto shoulder or parking lane



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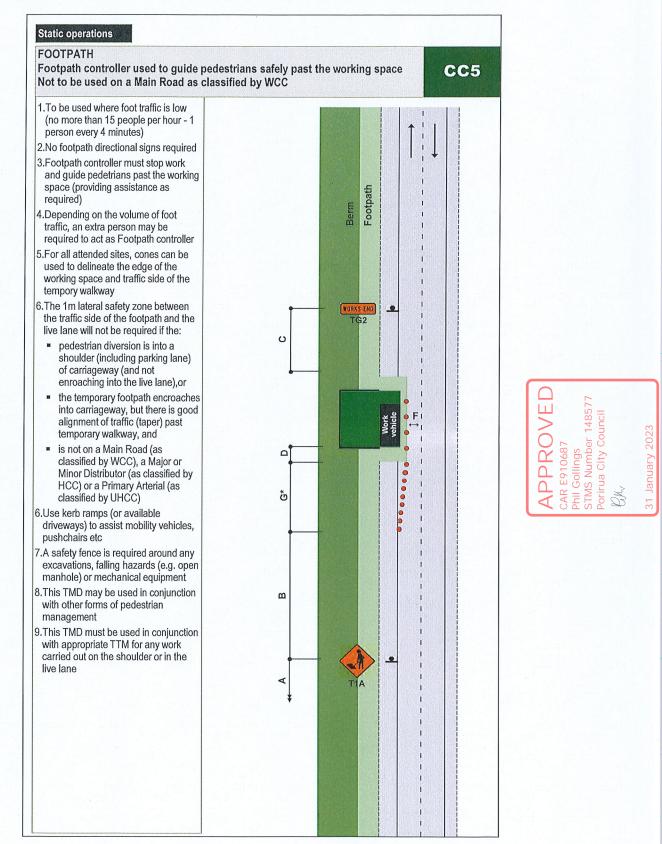
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PPROVE

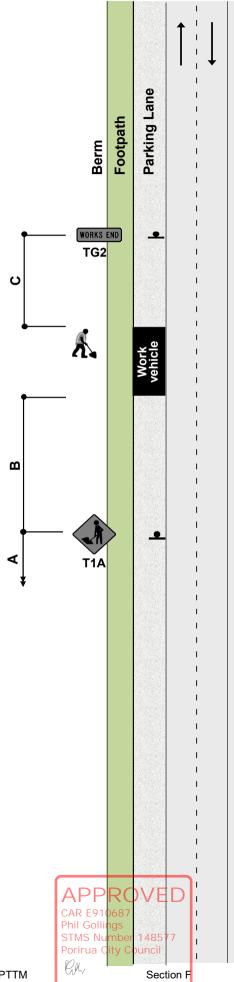
## CC5 Footpath controller guiding pedestrians past the working space



#### SHOULDER AND ROADSIDE ACTIVITIES Work on berm and/or footpath Permanent speed less than 65km/h

#### Notes

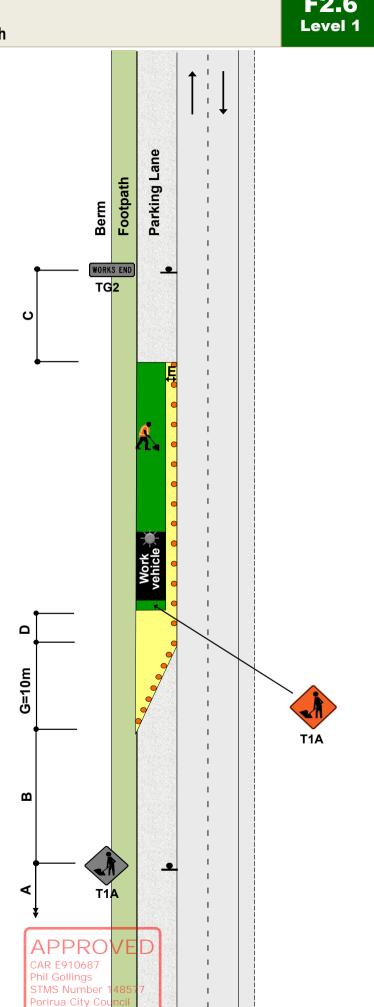
- 1.Where work is carried out on the berm or footpath and a work vehicle is parked in a legal parallel car park, provided the vehicle is only accessed from the off traffic side, advance warning T1A road works and TG2 WORKS END are optional
- 2.Traffic management must be provided where footpath users or cyclists are affected
- 3. This layout may only be used during daylight hours
- 4.Large plant and machinery must not be used in this situation, a more substantial closure is required



#### SHOULDER AND ROADSIDE ACTIVITIES Work in parking lane Permanent speed less than 65km/h

#### Notes

- 1.Where work is carried out in the legal parking lane (a place where a vehicle would normally park with a footpath and/or kerb and channel alongside), the following minimum standard of TTM must be provided:
  - a 10m taper in front of the work vehicle
  - cones alongside the work vehicle and the working space
  - a longitudinal safety zone
  - a 1m lateral safety zone along the working space
  - a T1A (or other appropriate advance warning sign) mounted on the back of the work vehicle
- 2.T1A road works and TG2 WORKS END signs are optional
- 3. The work vehicle must be no larger than a light truck and may have an amber flashing beacon
- 4.Traffic management must be provided where footpath users or cyclists are affected
- 5. This layout may only be used during daylight hours
- 6.Large plant and machinery must not be used in this situation, a more substantial closure is required



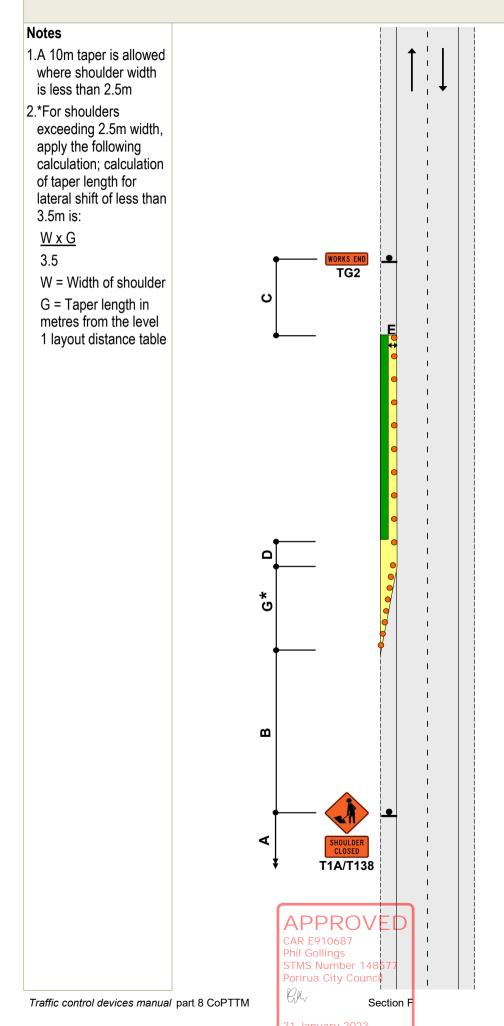
Traffic control devices manual part 8 CoPTTM

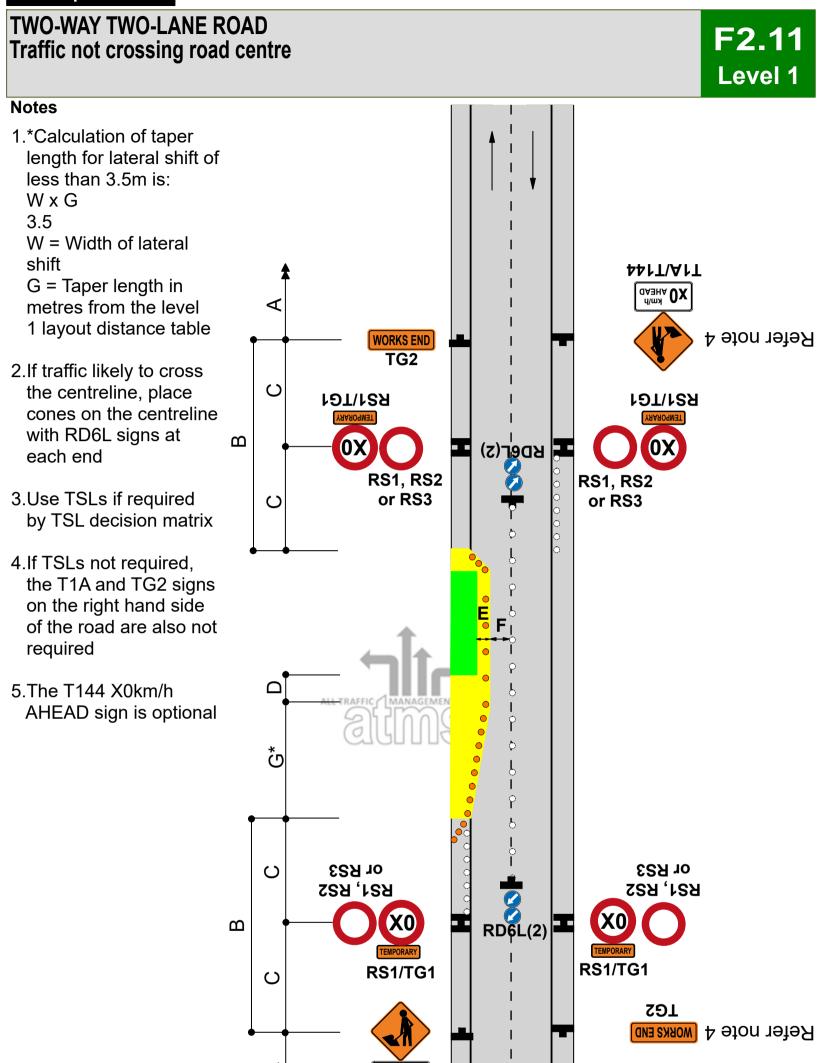
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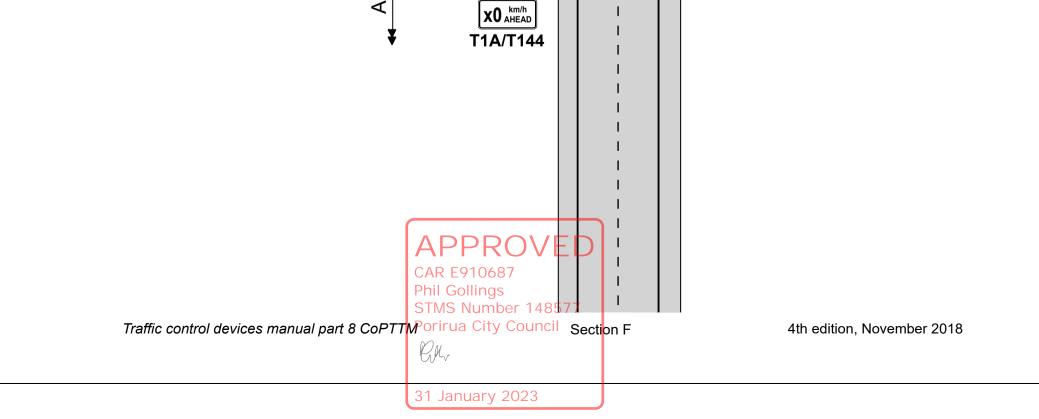
Section F

# SHOULDER AND ROADSIDE ACTIVITIES Shoulder closure









#### TWO-WAY TWO-LANE ROAD Traffic not crossing road centre Signs on median

#### Notes

- 1.Use this diagram if signs will not be visible on left-hand side of road, or if it is safer to place signs on median and this will not interfere with turning traffic movements
- 2.Where a median exists which is more than 2m wide, the signs may be positioned on the median. Signs must be placed back-to-back unless on a solid median
- 3.Where there is a solid median, signs are not required in the opposing direction
- 4.\*Calculation of taper length for lateral shift of less than 3.5m is:

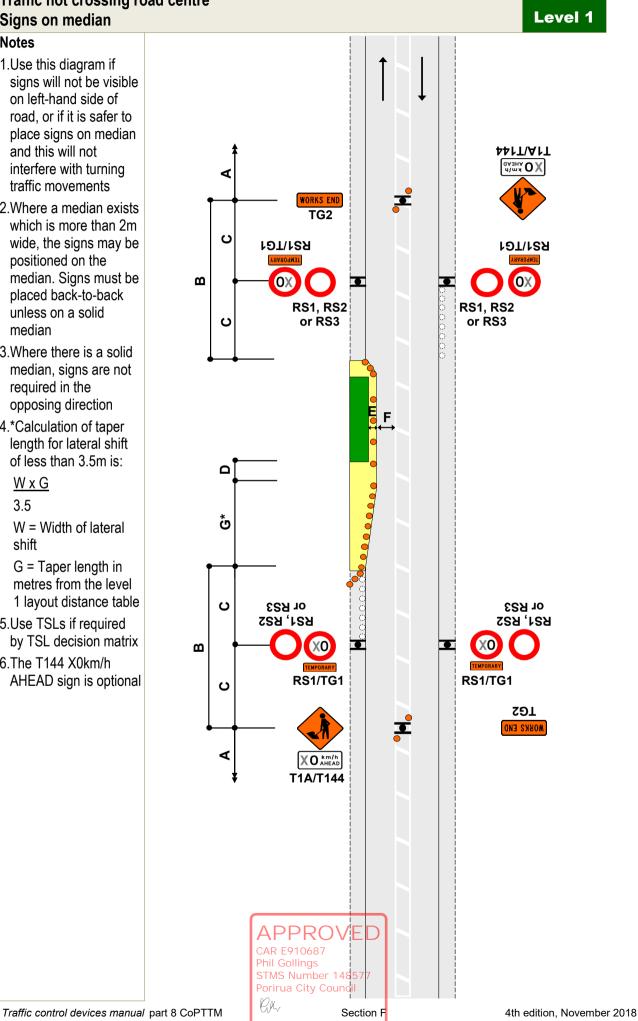
WxG

3.5

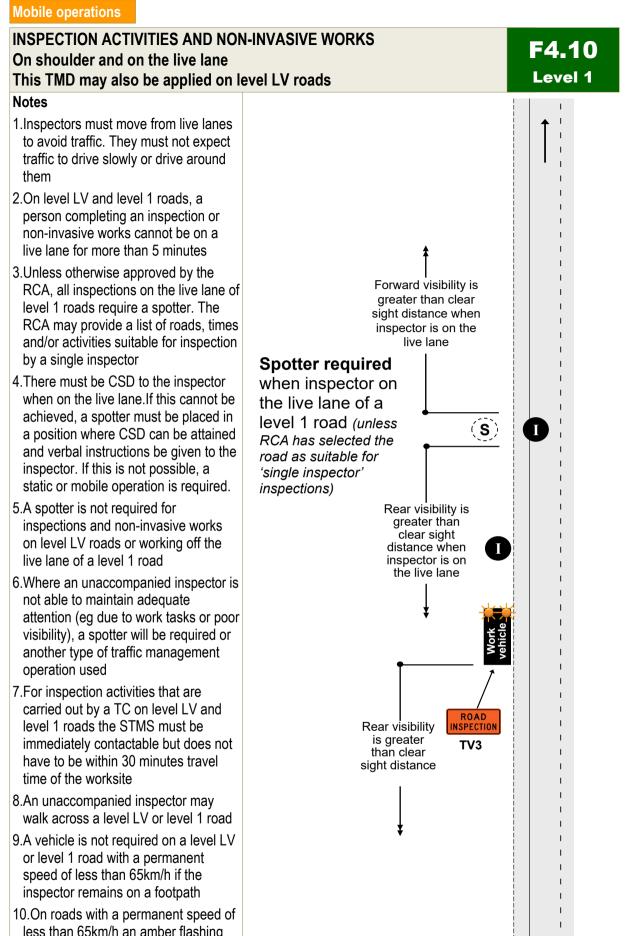
W = Width of lateral shift

G = Taper length in metres from the level 1 layout distance table

- 5.Use TSLs if required by TSL decision matrix
- 6.The T144 X0km/h AHEAD sign is optional



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Section F

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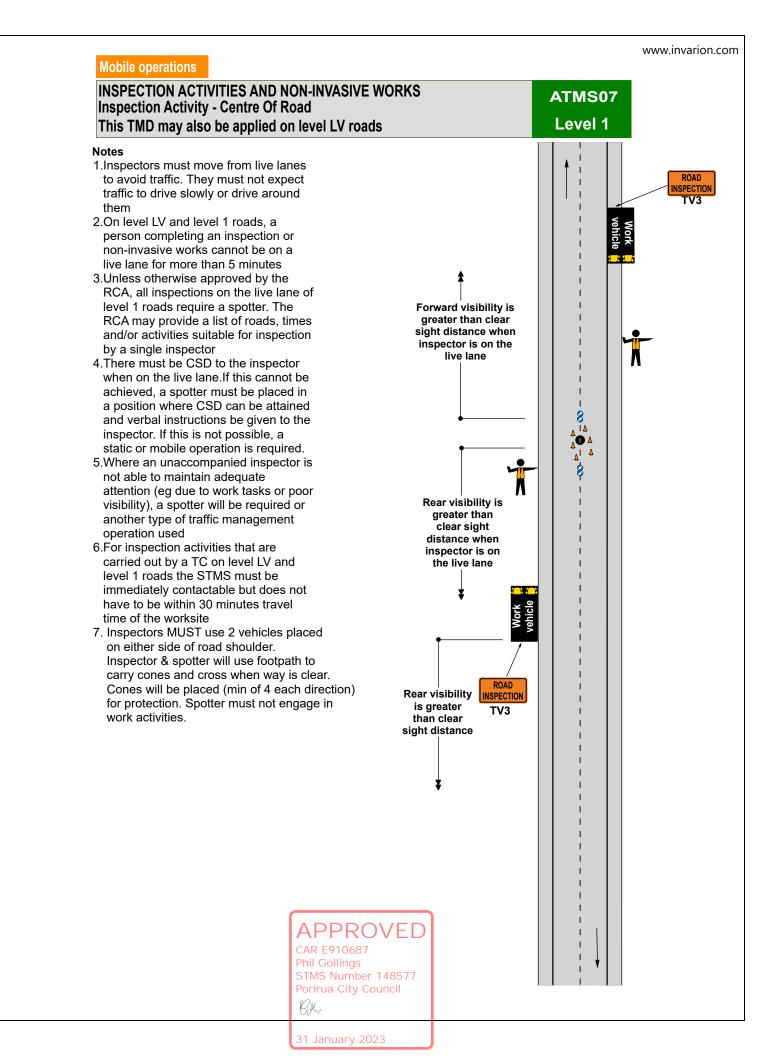
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less than 65km/h an amber flashing beacon is not required on the vehicle if the inspector or non-invasive works is on an unsealed shoulder (or further away from the carriageway - including a footpath)

4th edition, November 2018

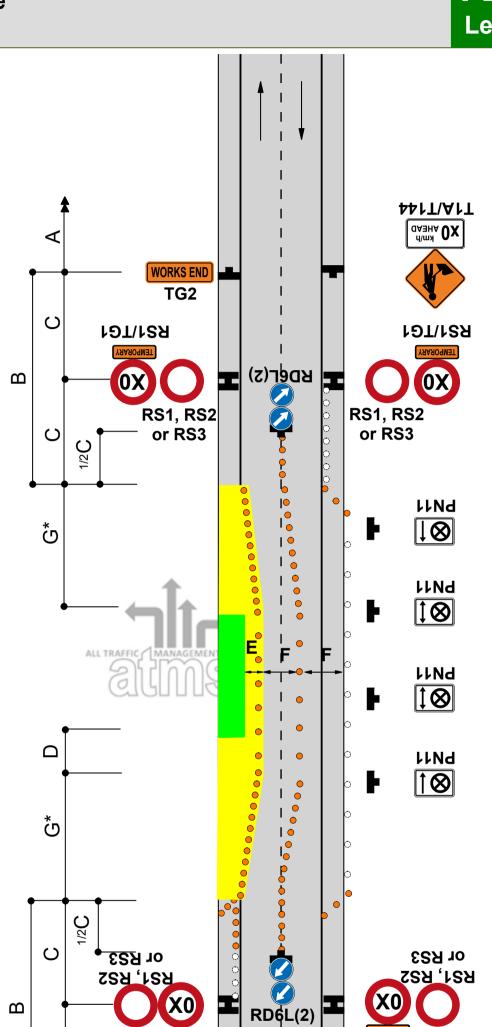
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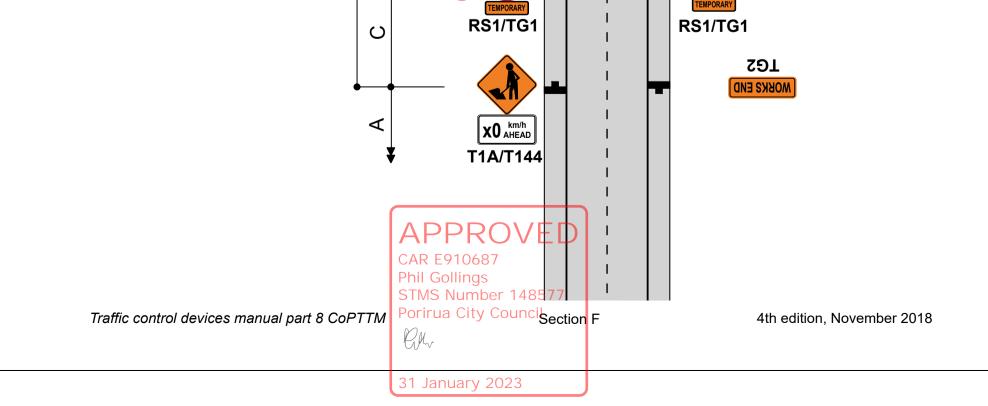
## TWO-WAY TWO-LANE ROAD Traffic crossing road centre Two lane diversion

#### Notes

- 1.Cones are required on edge of the temporary lane opposite closure if road is not well defined
- 2.Return taper at end of closure may be shortened
- 3.\*Calculation of taper length for lateral shift of less than 3.5m is: W x G 3.5 W = Width of lateral shift G = Taper length in metres from the level 1 layout distance table
- 4.To allow heavy vehicles to manoeuvre, cones in the channel must be offset by at least 10m where the direction changes. Refer C8.2.12
- 5.Use PN11 No Stopping signs, if necessary
- 6.Use TSLs if required by TSL decision matrix
- 7.The T144 X0km/h AHEAD sign is optional







## TWO-WAY TWO-LANE ROAD Single-lane alternating flow Portable e-STOP

#### Notes

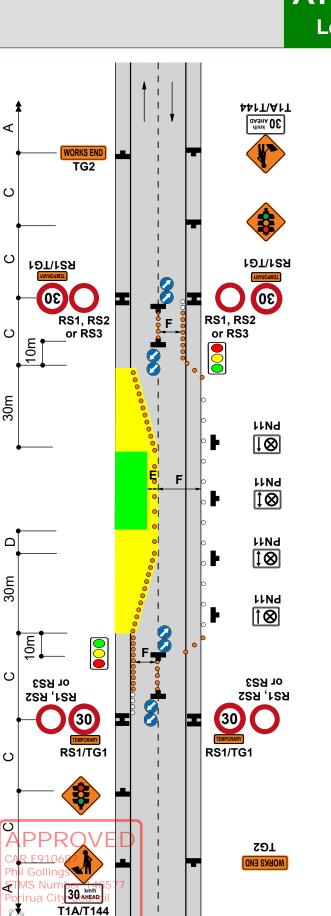
- 1.Provide details of make and model of portable traffic signals in the TMP
- 2.Use PN11 no stopping signs, if necessary as per the approved TMP
- 3.Install temporary RP61/RP62 signs



- 4.Minimum 5 cones in cone threshold.
- 5. Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues
- 6.CONTINGENCY PLAN: F2.14 to be implemented should issues arise with e-STOP/ adverse weather conditions or where stop go is unsuitable. ex; Short term stoppages is defined as "stopping traffic for a short period of time within a static site, at inconsistent intervals to assist with the entry/exit of vehicles or small tasks required to be undertaken in the live lane".

7. In circumstances where for safety reasons, the use of stop/go operations is deemed more appropriate, a site specific safe work method statement must be prepared.

- 8.The T144 30km/h AHEAD sign is optional on roads under 65km/h
- 9. e-STOP can only be used on an attended site. e-STOPs must be manned at all times.



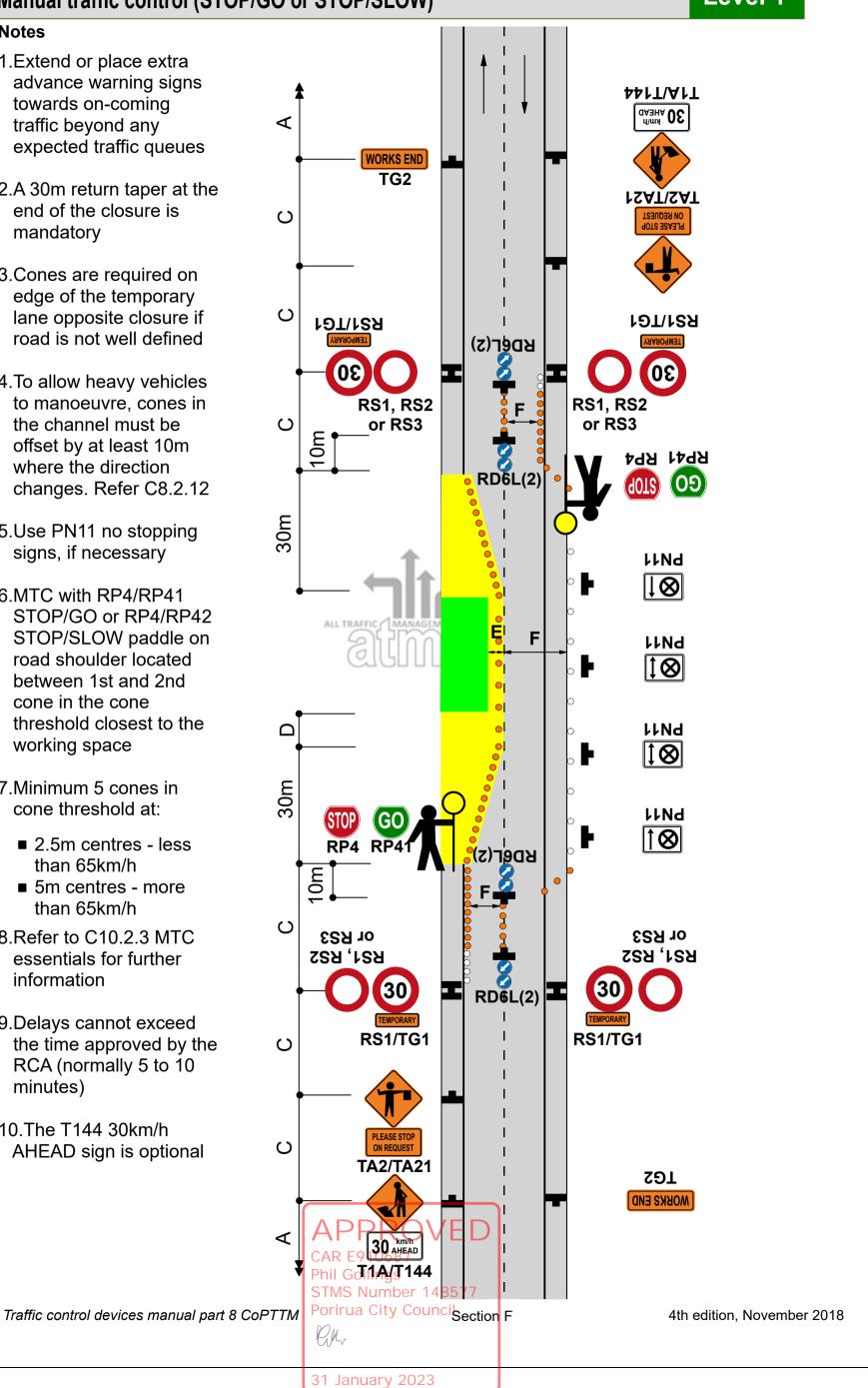
31 January 2023

ATMS02 Level 1

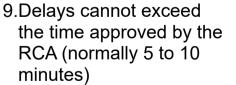
## **TWO-WAY TWO-LANE ROAD** Single-lane alternating flow Manual traffic control (STOP/GO or STOP/SLOW)

#### **Notes**

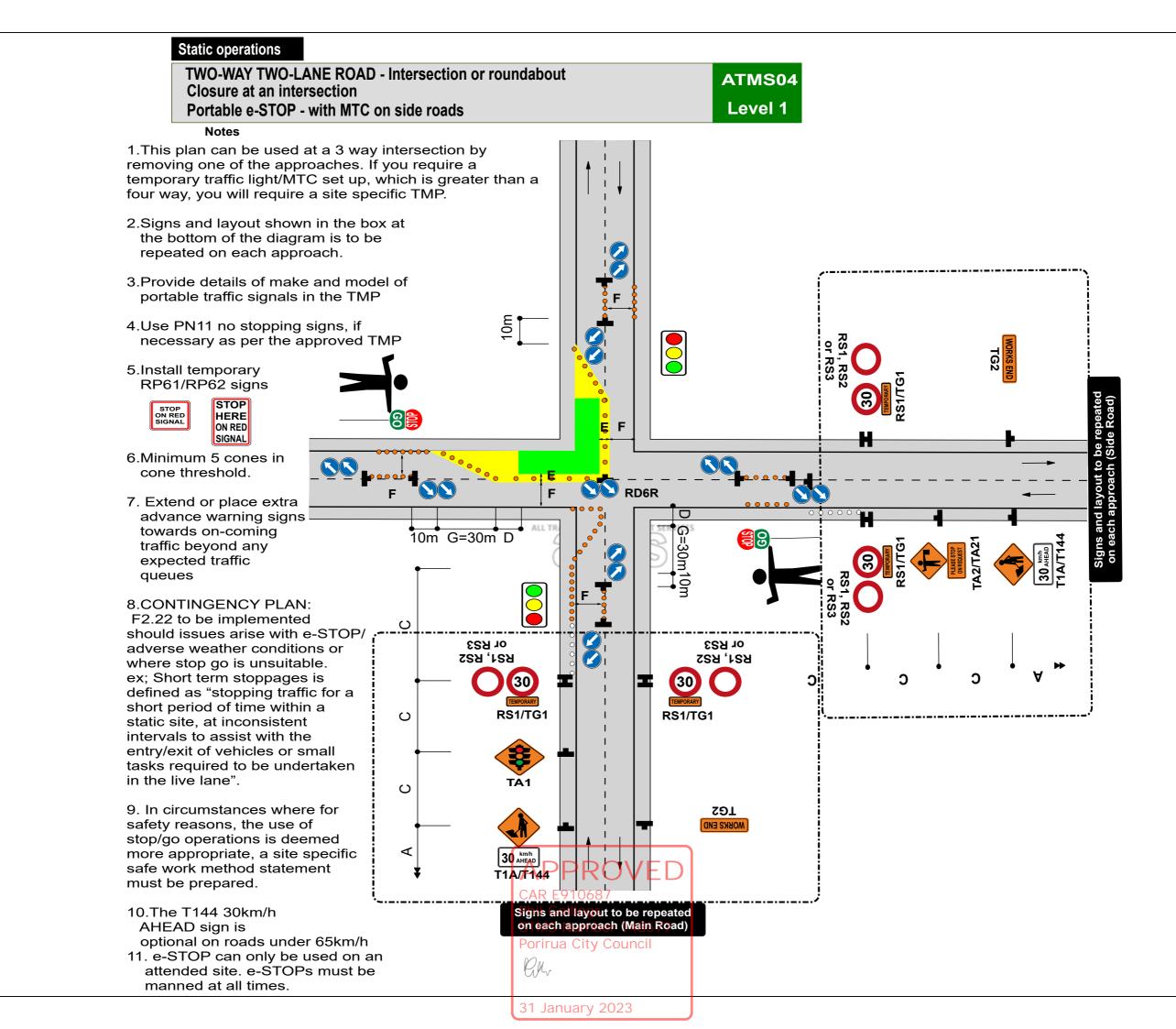
- 1.Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues
- 2.A 30m return taper at the end of the closure is mandatory
- 3.Cones are required on edge of the temporary lane opposite closure if road is not well defined
- 4. To allow heavy vehicles to manoeuvre, cones in the channel must be offset by at least 10m where the direction changes. Refer C8.2.12
- 5.Use PN11 no stopping signs, if necessary
- 6.MTC with RP4/RP41 STOP/GO or RP4/RP42 STOP/SLOW paddle on road shoulder located between 1st and 2nd cone in the cone threshold closest to the working space
- 7.Minimum 5 cones in cone threshold at:
  - 2.5m centres less than 65km/h
  - 5m centres more than 65km/h
- 8.Refer to C10.2.3 MTC essentials for further information

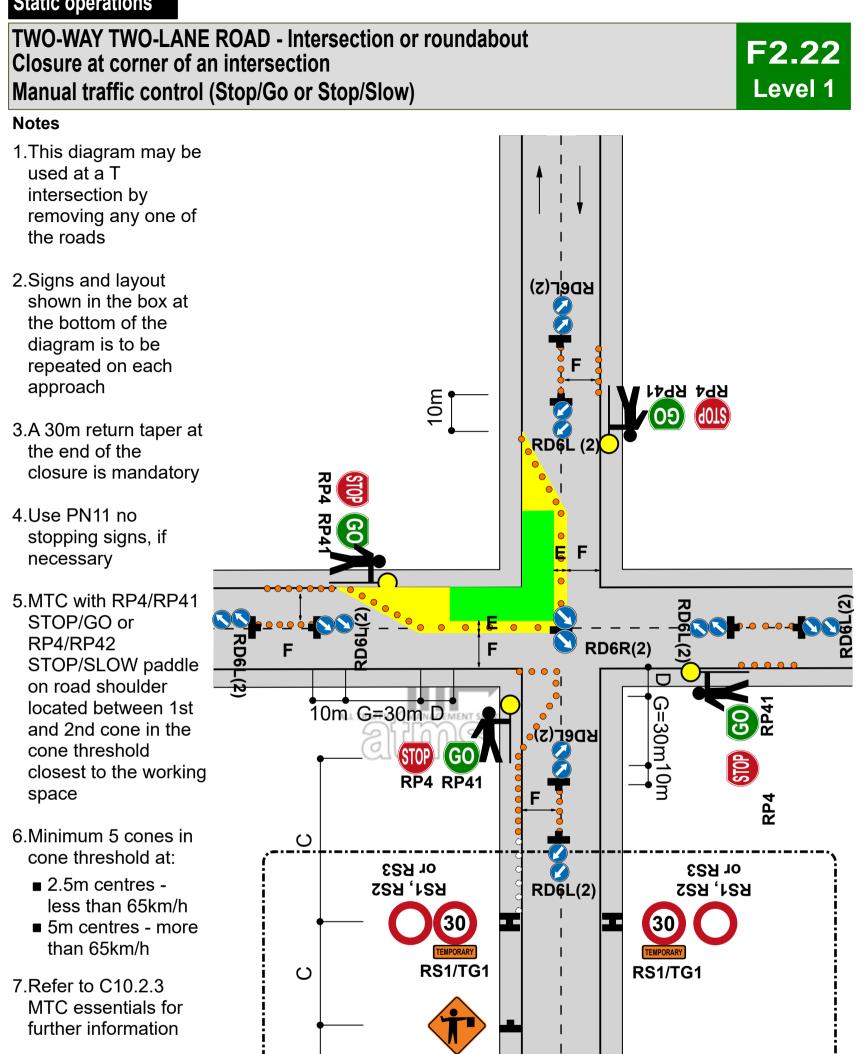


F2.14 Level 1



10.The T144 30km/h AHEAD sign is optional



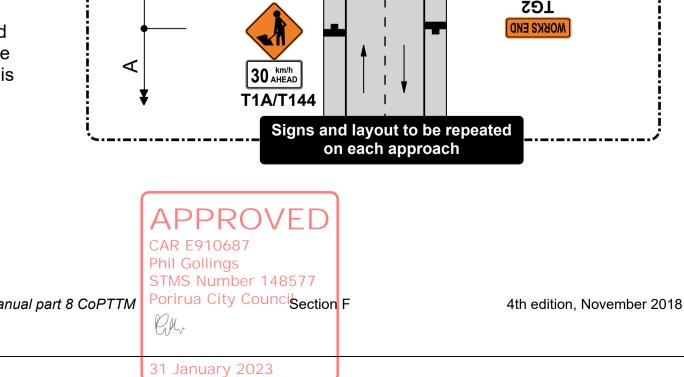


8.On roads with a permanent speed

limit of 100km/h, cones are required from the TSL to the taper if the speed is reduced by more than 30km/h

9.The T144 30km/h AHEAD sign is optional

Traffic control devices manual part 8 CoPTTM



**ON REQUEST** 

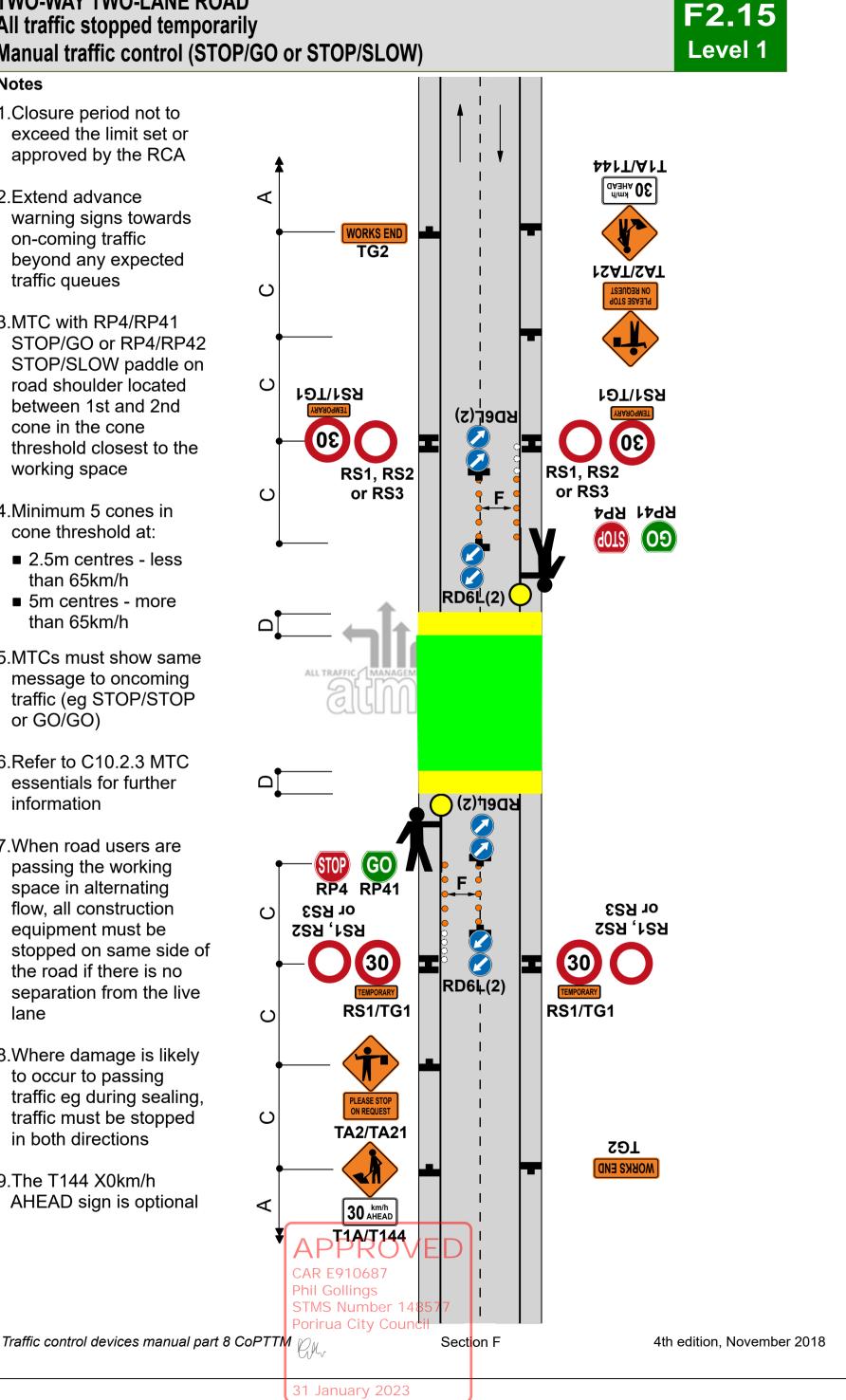
**TA2/TA21** 

 $\circ$ 

## **TWO-WAY TWO-LANE ROAD** All traffic stopped temporarily Manual traffic control (STOP/GO or STOP/SLOW)

#### Notes

- 1.Closure period not to exceed the limit set or approved by the RCA
- 2.Extend advance warning signs towards on-coming traffic beyond any expected traffic queues
- 3.MTC with RP4/RP41 STOP/GO or RP4/RP42 STOP/SLOW paddle on road shoulder located between 1st and 2nd cone in the cone threshold closest to the working space
- 4. Minimum 5 cones in cone threshold at:
  - 2.5m centres less than 65km/h
  - 5m centres more than 65km/h
- 5.MTCs must show same message to oncoming traffic (eg STOP/STOP or GO/GO)
- 6.Refer to C10.2.3 MTC essentials for further information
- 7.When road users are passing the working space in alternating flow, all construction equipment must be stopped on same side of the road if there is no separation from the live lane



8.Where damage is likely to occur to passing traffic eg during sealing, traffic must be stopped in both directions

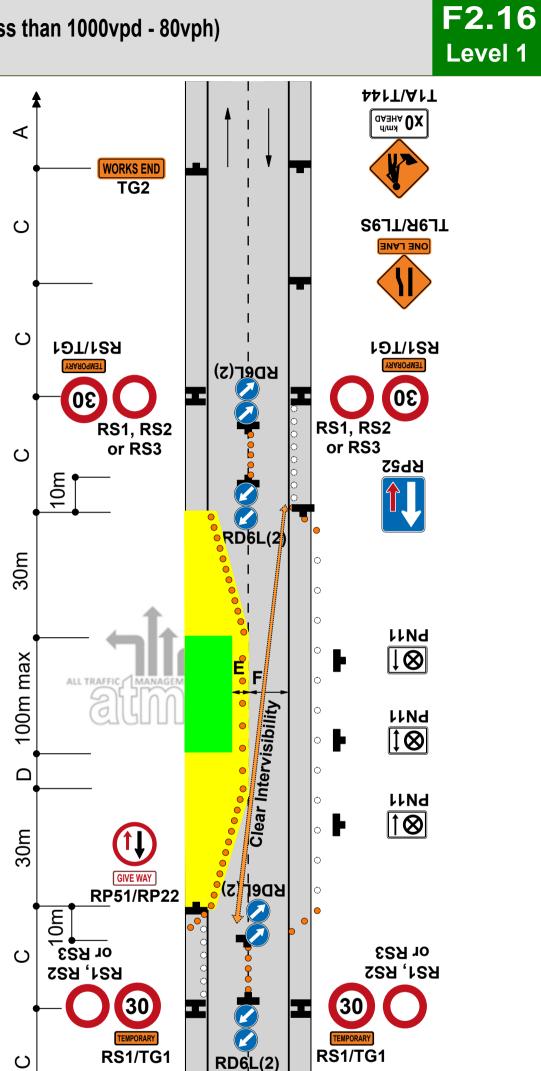
9.The T144 X0km/h AHEAD sign is optional

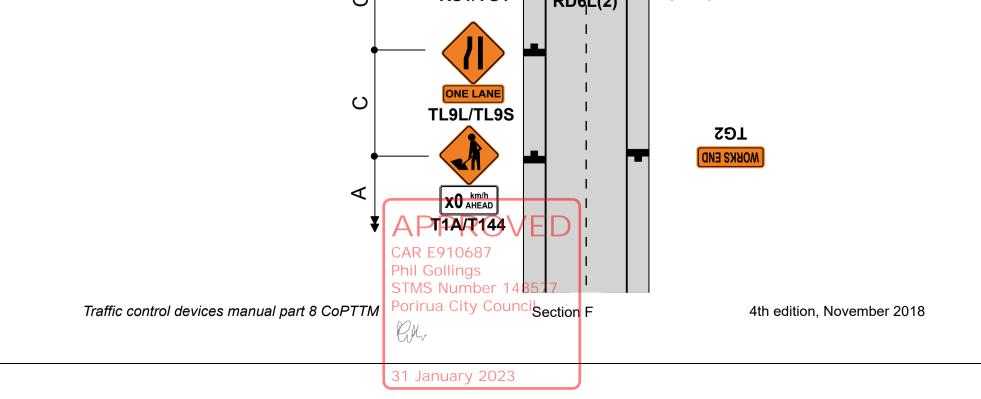
## TMC APPROVAL REQUIRED

## TWO-WAY TWO-LANE ROAD Single-lane (traffic volume less than 1000vpd - 80vph) Give way control

#### Notes

- 1.The RP51/RP22 and RP52 controls must be placed in the following priority order:
  - downhill traffic must give way to uphill traffic
  - traffic that has to cross into the opposing lane gives way, however where visibility for this vehicle is marginal the contractor may require the other vehicle with better visibility to give way
- 2.Intervisibility is required as indicated on diagram. This means that a vehicle at one sign is able to see whether the way ahead is clear
- 3.A 30m return taper at the end of the closure is mandatory
- 4.Use PN11 No Stopping signs, if necessary
- 5.Cones are required on edge of the temporary lane opposite closure if road is not well defined
- 6.The T144 X0km/h AHEAD sign is optional





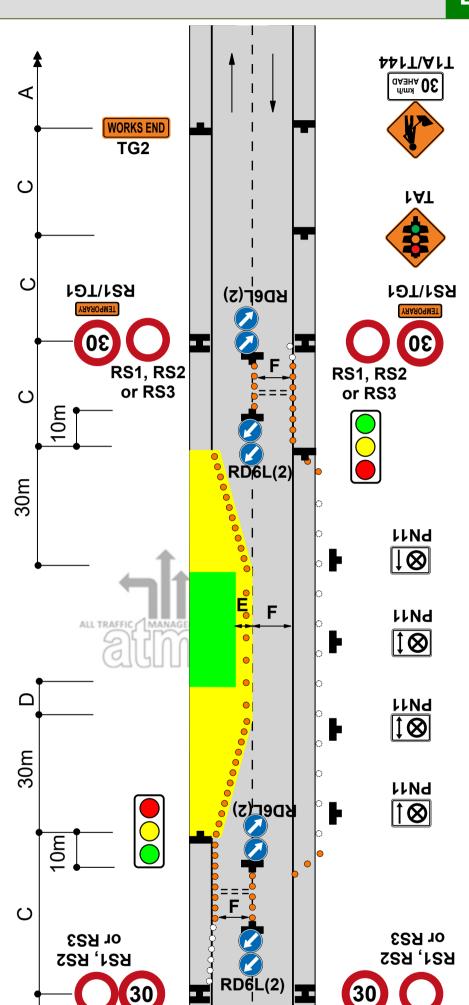
## **TWO-WAY TWO-LANE ROAD** Single-lane alternating flow Portable traffic signals

## **Notes**

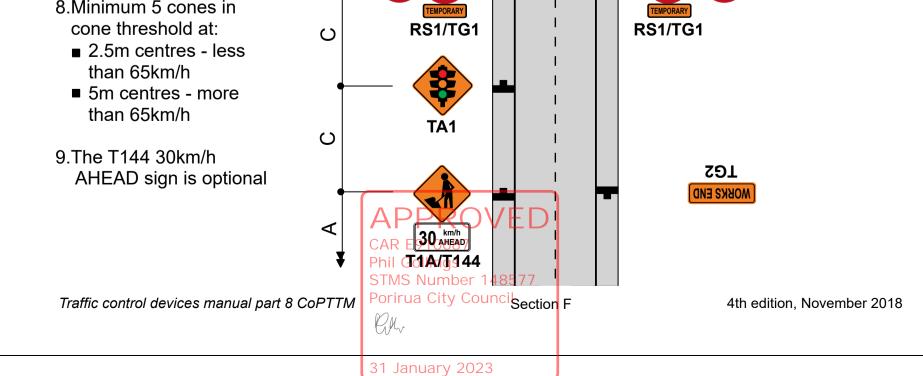
- 1.Provide details of make and model of portable traffic signals in the TMP
- 2.Install temporary limit lines (must be able to be removed upon completion) or use RP61/RP62 signs



- 3. Approved temporary speed humps may also be used. Consider use of MTC while speed humps are installed
- 4.A 30m return taper at the end of the closure is mandatory
- 5.Cones are required on edge of the temporary lane opposite closure if road is not well defined
- 6.Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues
- 7.Use PN11 No Stopping signs, if necessary



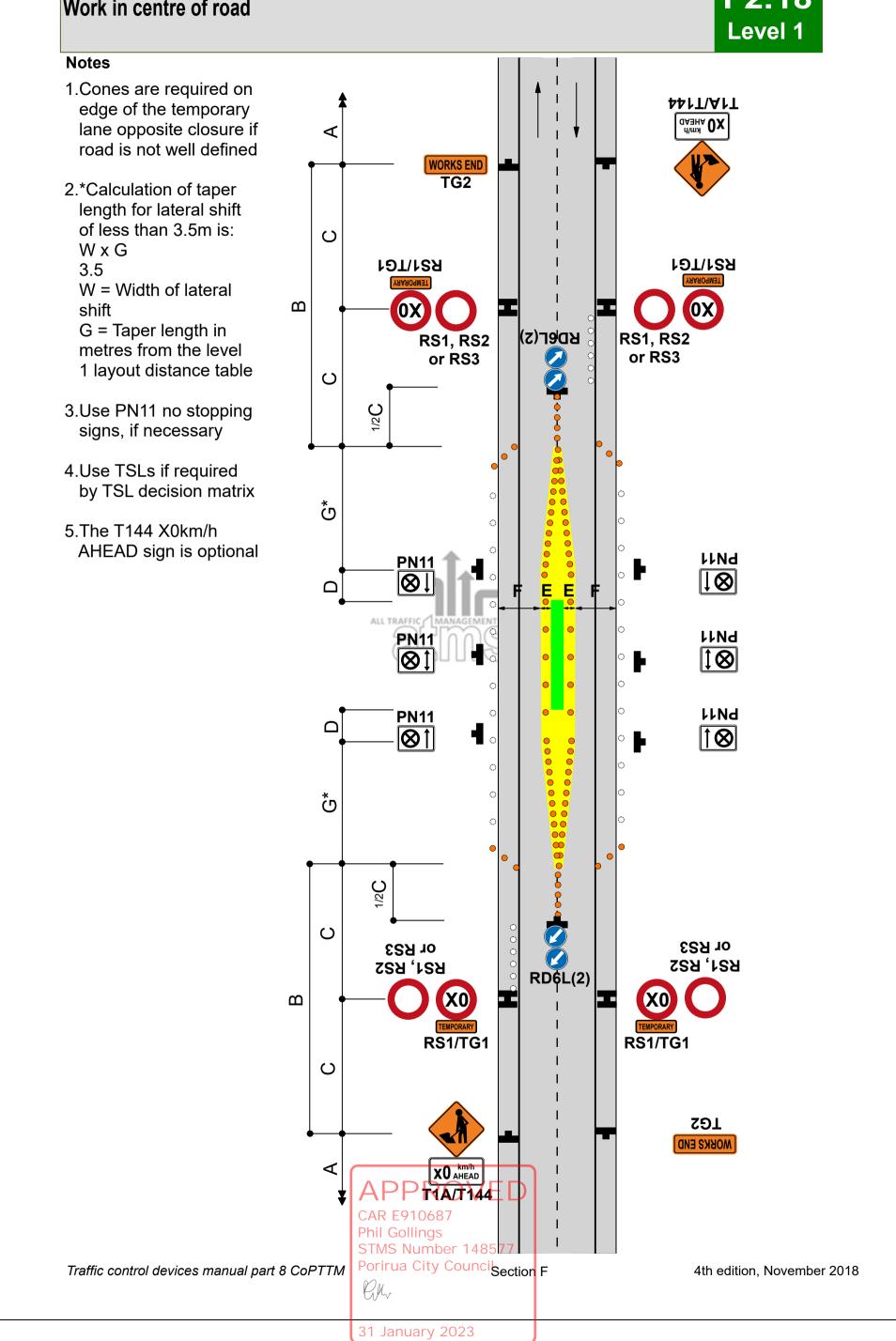




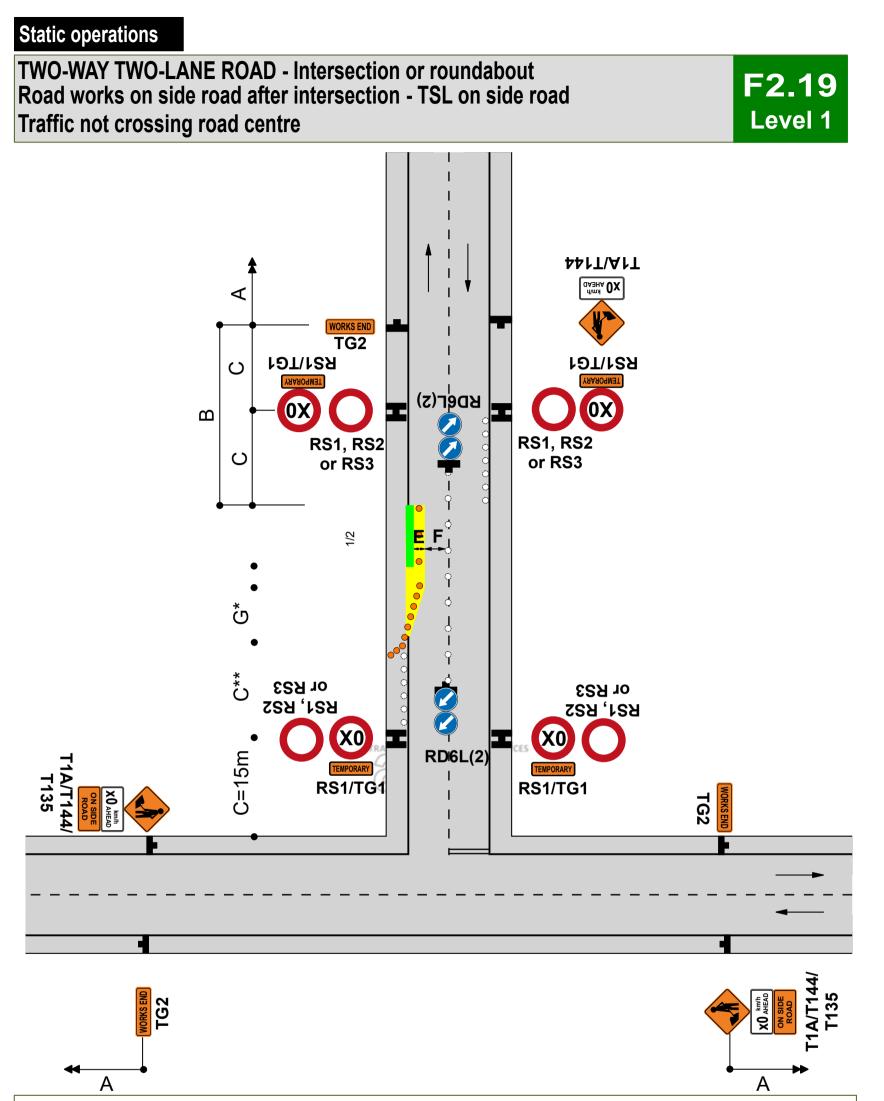
## **TWO-WAY TWO-LANE ROAD** Work in centre of road

#### Notes

- edge of the temporary lane opposite closure if road is not well defined
- 2.\*Calculation of taper length for lateral shift of less than 3.5m is: WxG 3.5 W = Width of lateral shift G = Taper length in metres from the level
- signs, if necessary



# **F2.18**



#### Notes

1. Sign spacing of TSL at the intersection can be reduced as per the table shown below

2. Where minimum dimensions cannot be achieved TMD F2.20 is to be used

3.Advance warning signs on main road must be at least the warning distance away from first cone in taper

4.\*Calculation of taper length for lateral shift of less than 3.5m is:

 $W \times G W = Width of lateral shift$ 

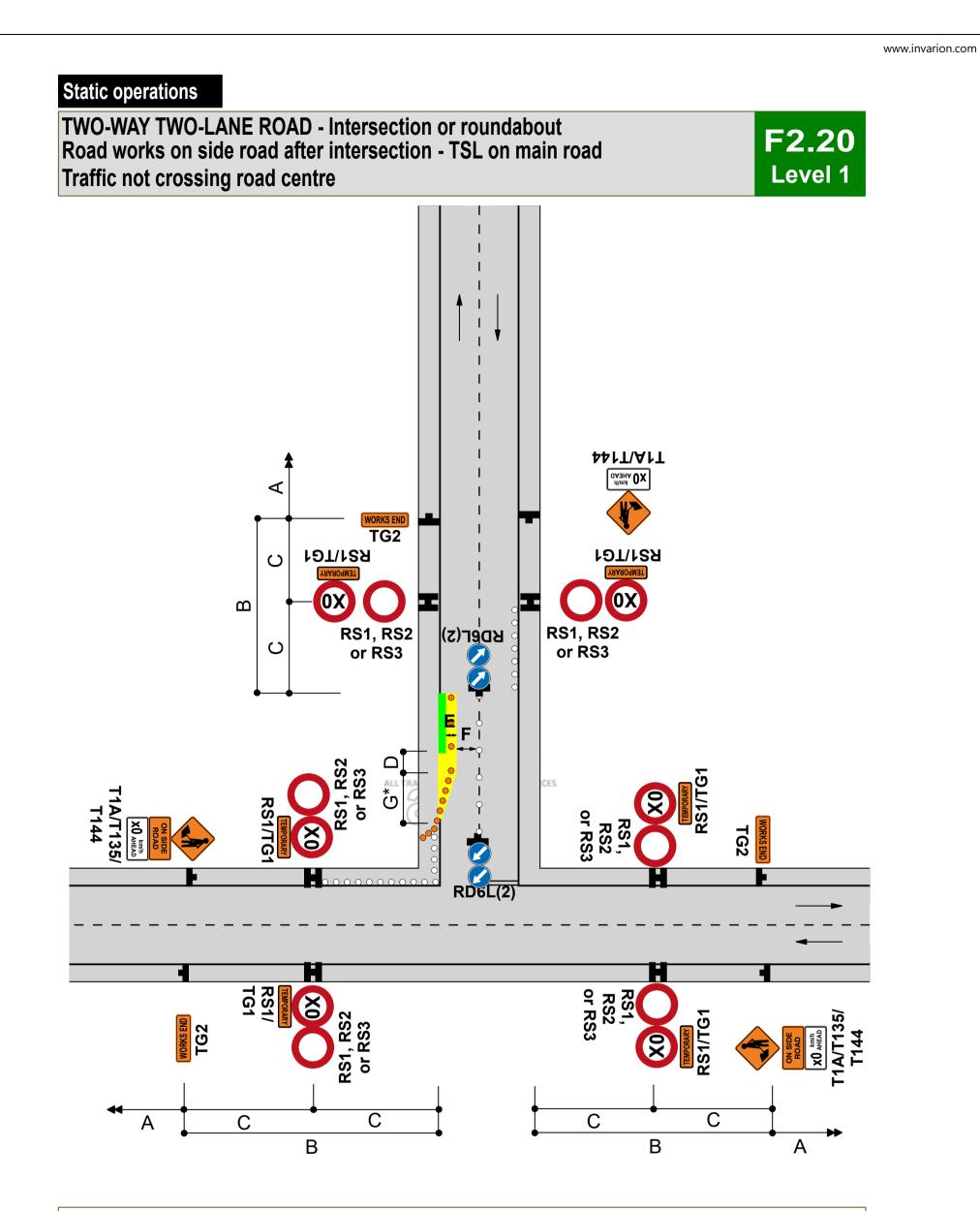
3.5 G = Taper length in metres from the level 1 layout distance table

5. If traffic likely to cross the centreline, place cones on the centreline with RD6L signs at each end

6.Use TSLs as required by TSL decision matrix

7. The T144 30km/h AHEAD sign is optiona





#### Notes

1.\*Calculation of taper length for lateral shift of less than 3.5m is:

 $W \times G W = Width of lateral shift$ 

G = Taper length in metres from the level 1 layout distance table 3.5

2.If traffic likely to cross the centreline, place cones on the centreline with RD6L signs at each end

3.Use TSLs as required by TSL decision matrix

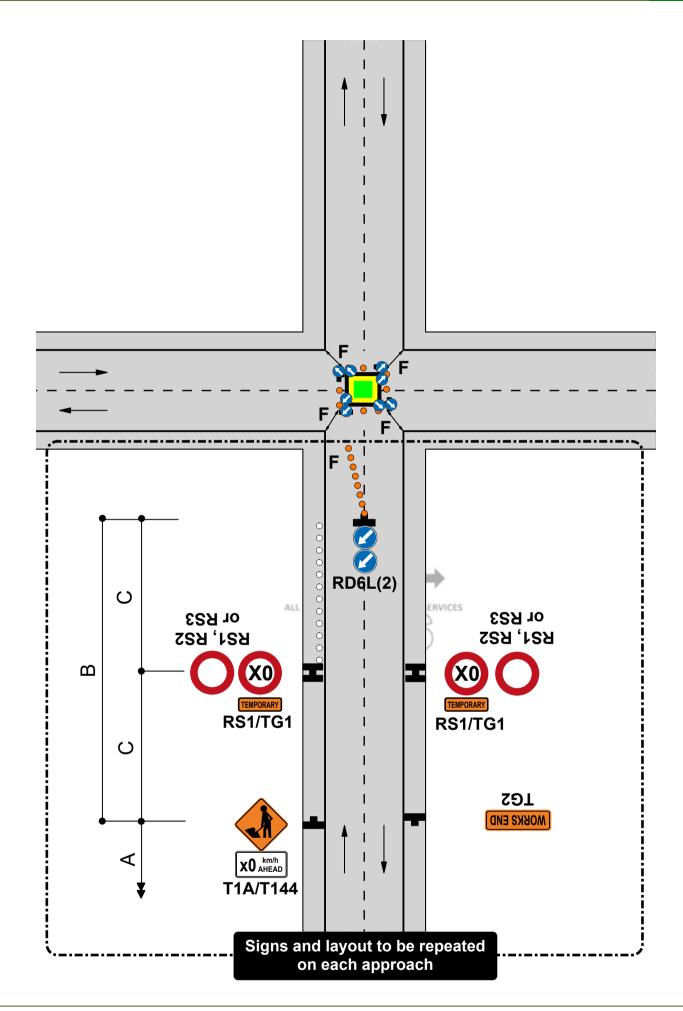
4. The T144 X0km/h AHEAD sign is optional

APPROVE CAR E910687 **Phil Gollings** STMS Numbe Porirua City CouncilSection F Traffic control devices manual part 8 CoPTTM 4th edition, November 2018 RAV

31 January 2023

## TWO-WAY TWO-LANE ROAD - Intersection or roundabout Work in middle of intersection





 1. This diagram may be used at a T intersection by removing any one of the roads

 2. Signs and layout shown in the box at the bottom of the diagram is to be repeated on each approach

 3. RD6L signs are not required at an existing roundabout

 4. Cone tapers are optional at existing roundabouts

 5. Lane widths, F, may need to be increased to allow for turning movements of larger vehicles

 6. Use TSLs if required by TSL decision matrix

 7. The T144 X0km/h AHEAD sign is optional

 APPROVED

 CAR E910687

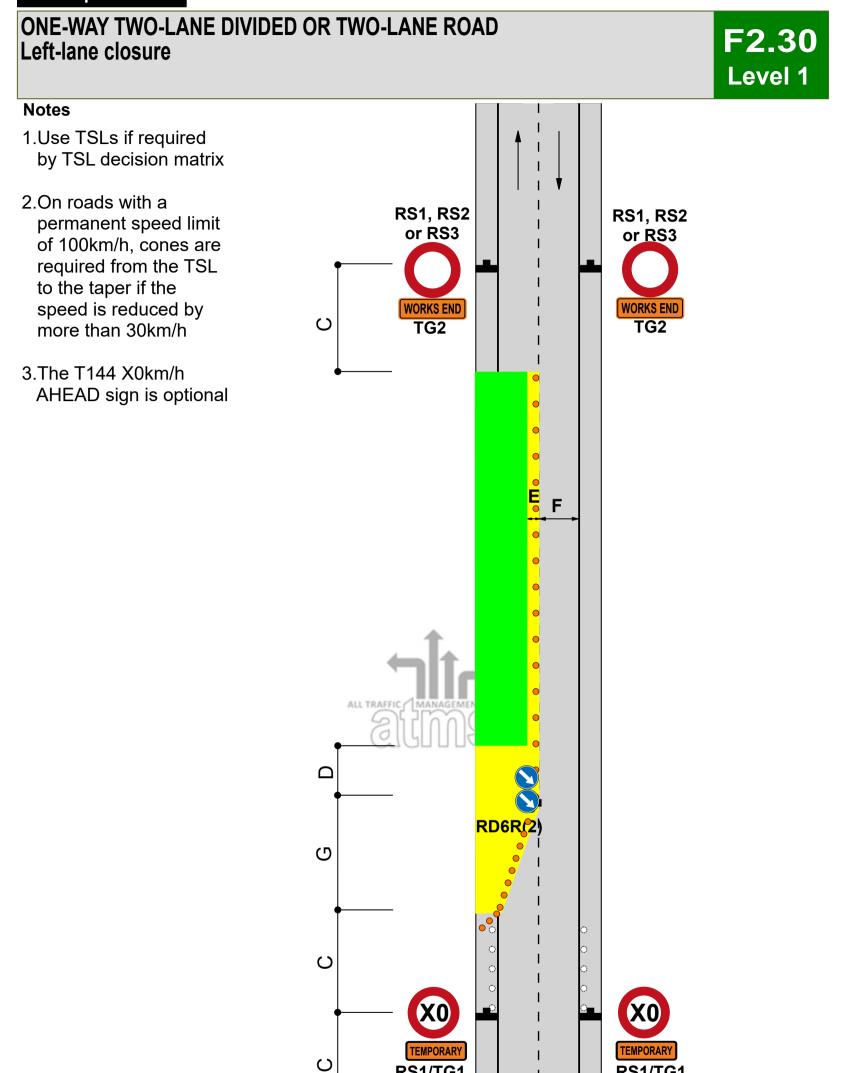
 Phil Gollings

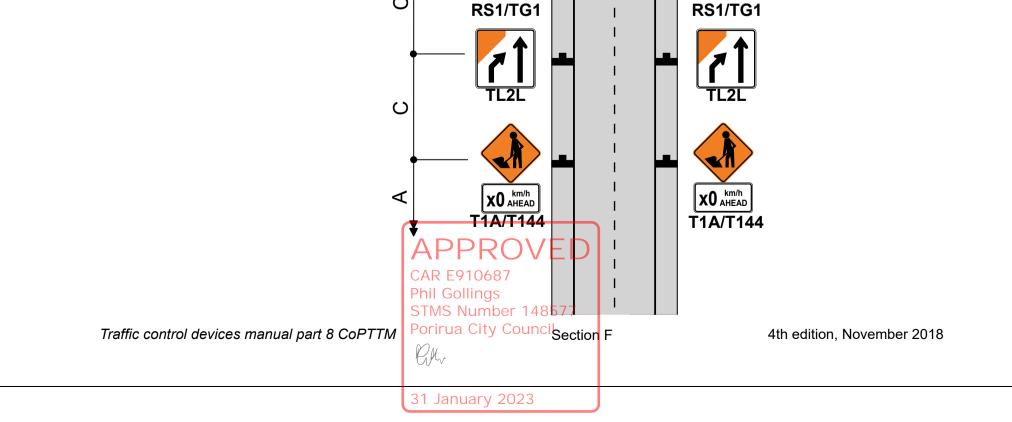
 STMS Number 148577

 Porirua City CounciSection F

 4th edition, November 2018

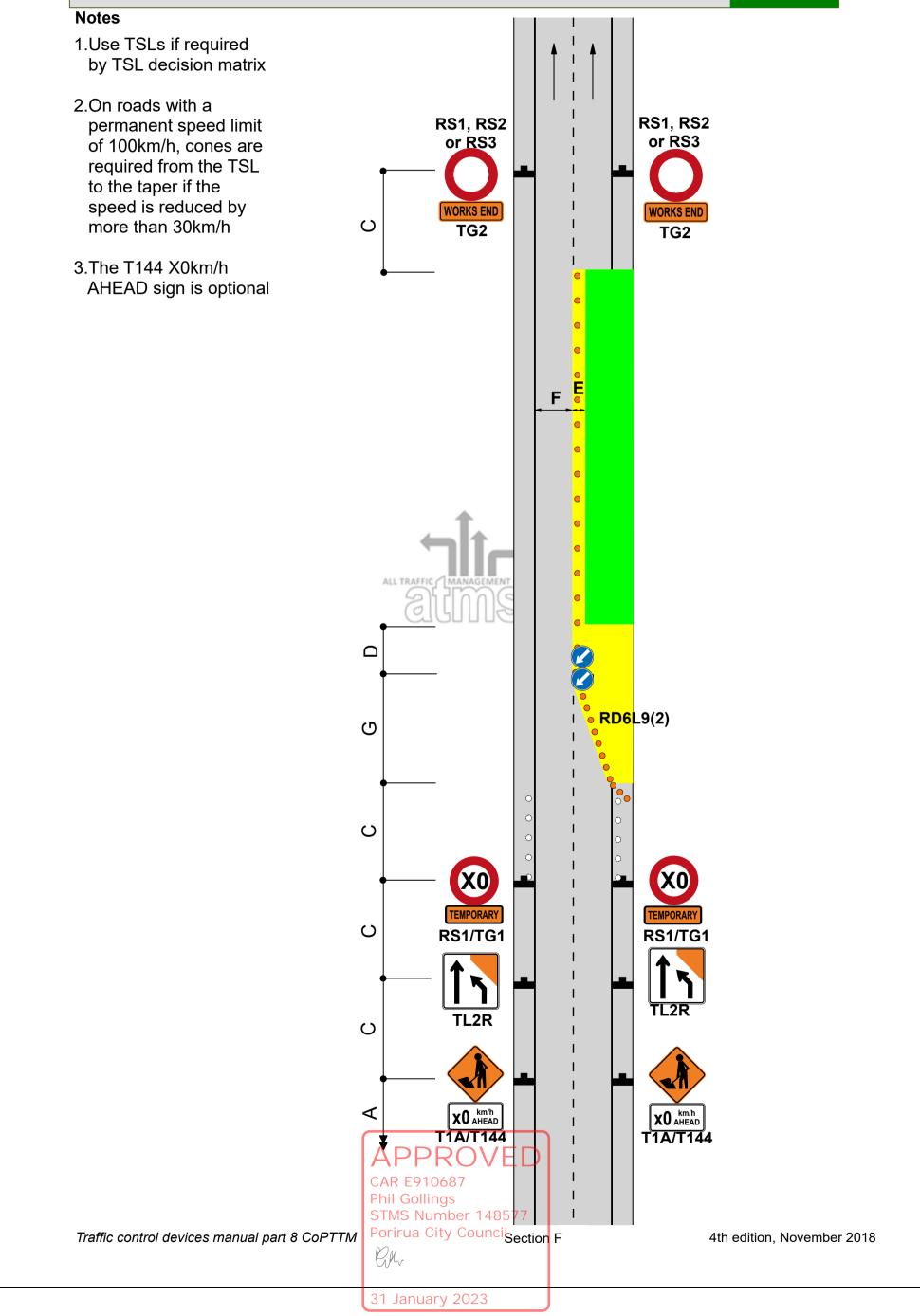
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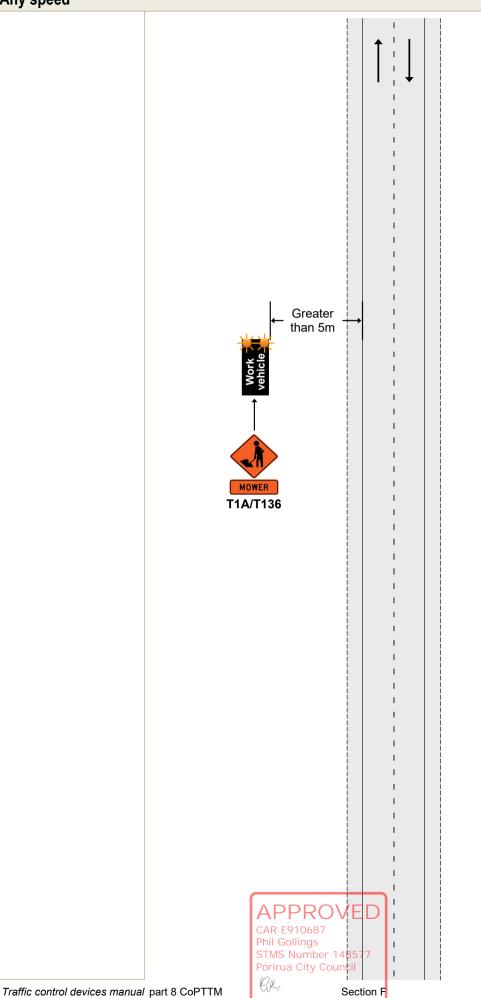
## ONE-WAY TWO-LANE DIVIDED OR TWO-LANE ROAD Right-lane closure

F2.31 Level 1



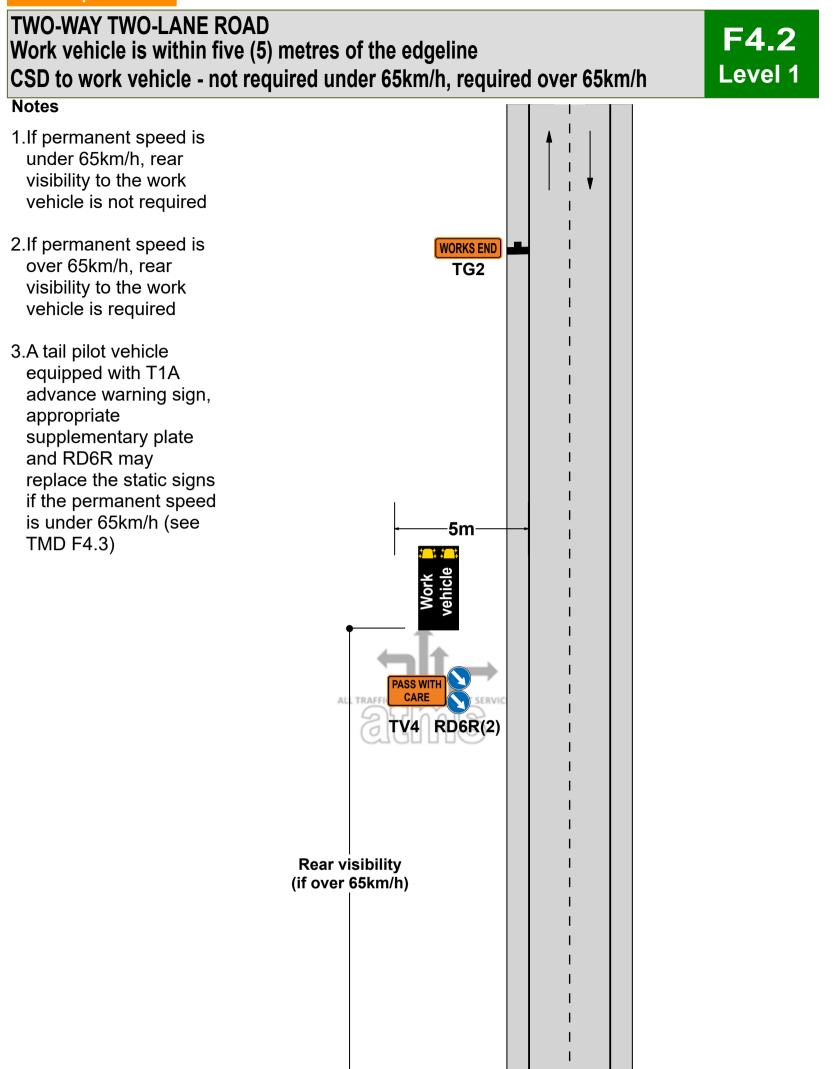
TWO-WAY TWO-LANE ROAD Work vehicle is more than five (5) metres from the edgeline Any speed

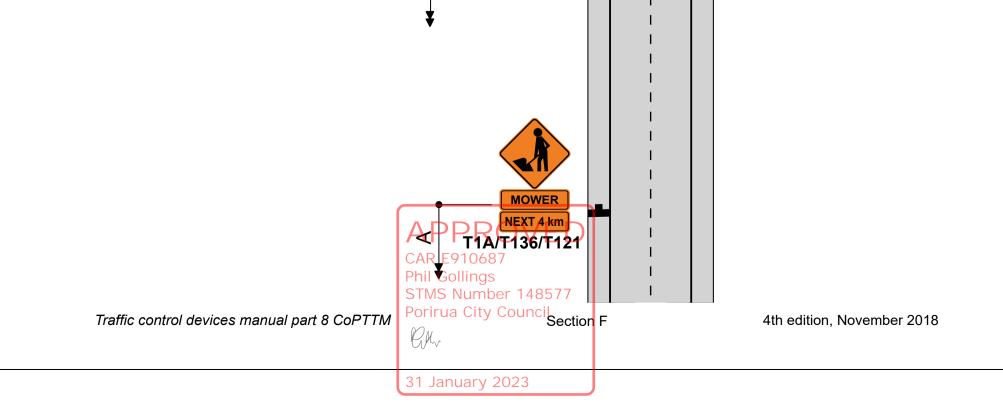


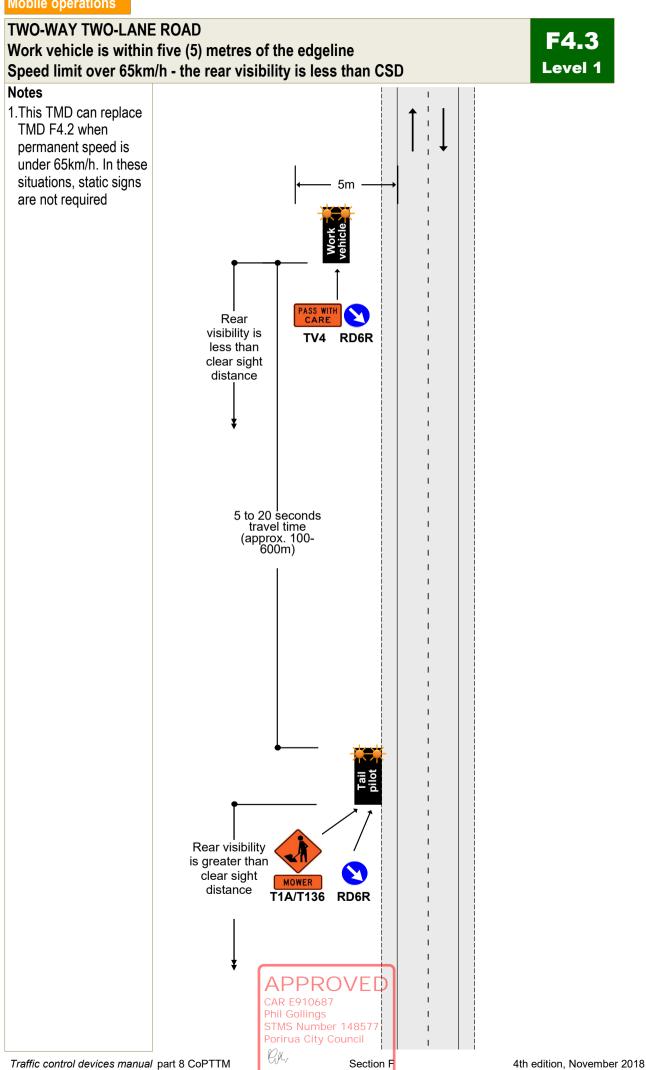


21 1------

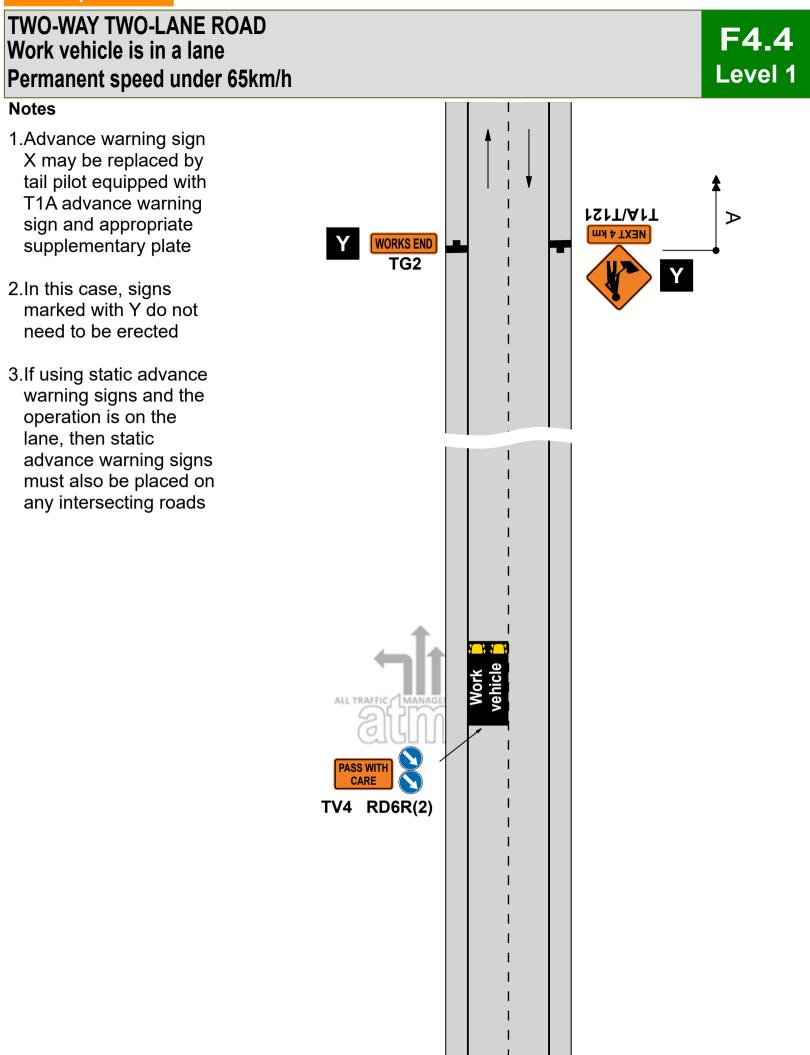
## Mobile operations

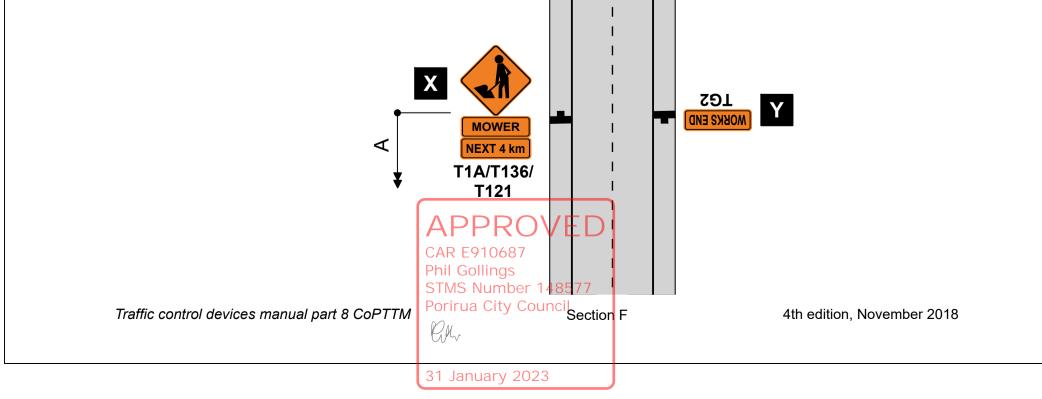


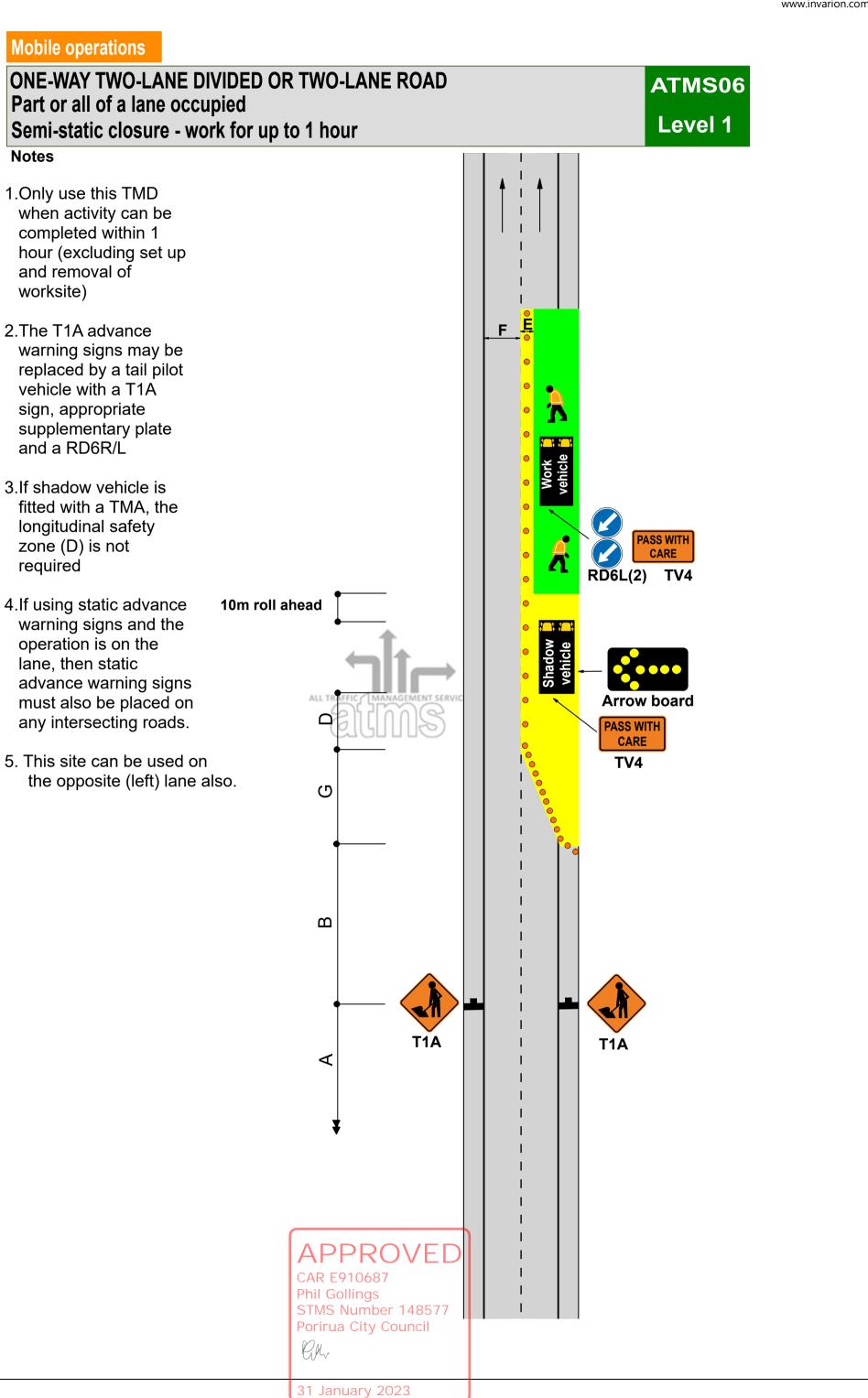


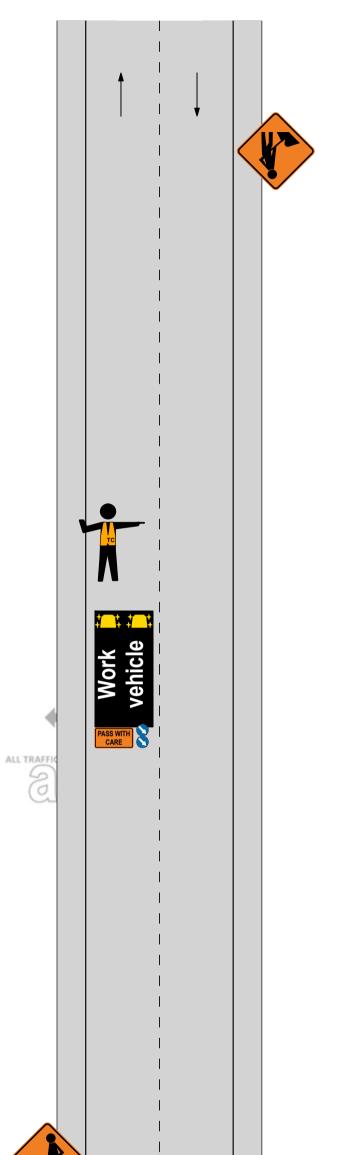


# **Mobile operations**

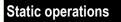








Closure: Level 1 Mobile Closure	APPROVED CAR E910687	
Level:1	Phil Gollings STMS Number 148577	ALL TRAFFIC MANAGEMENT SERVICES
TMP Ref: Mobile L1 - TTM Install/Removal	Porirua City Council RHv	EUMS
	31 January 2023	



#### **CYCLE LANE** Traffic not crossing road centre **Diverted cycle lane**

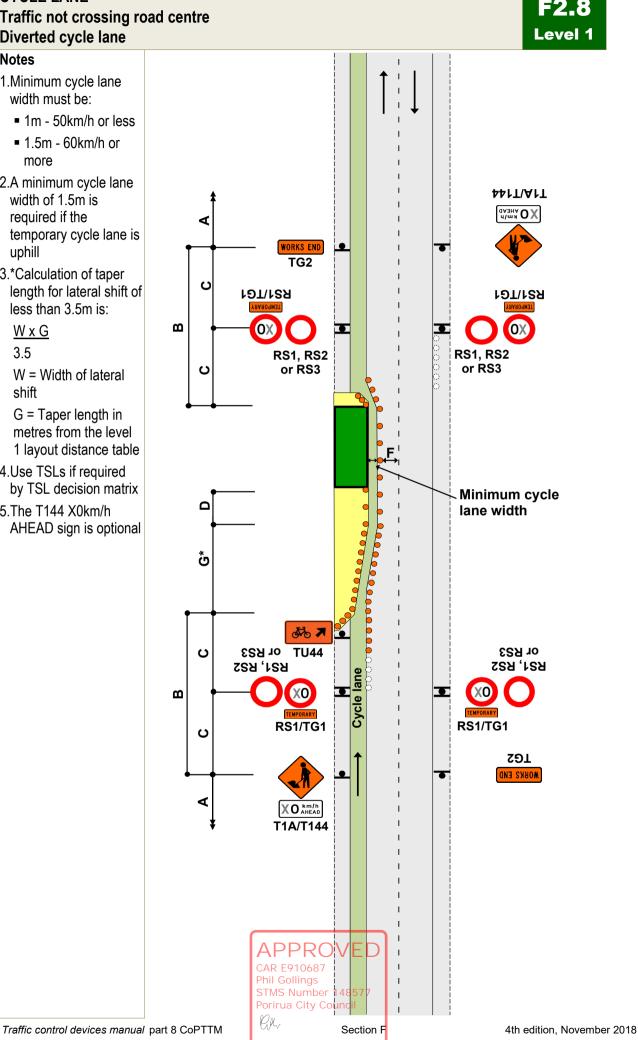
#### Notes

- 1.Minimum cycle lane width must be:
  - 1m 50km/h or less
  - 1.5m 60km/h or more
- 2.A minimum cycle lane width of 1.5m is required if the temporary cycle lane is uphill
- 3.\*Calculation of taper length for lateral shift of less than 3.5m is:

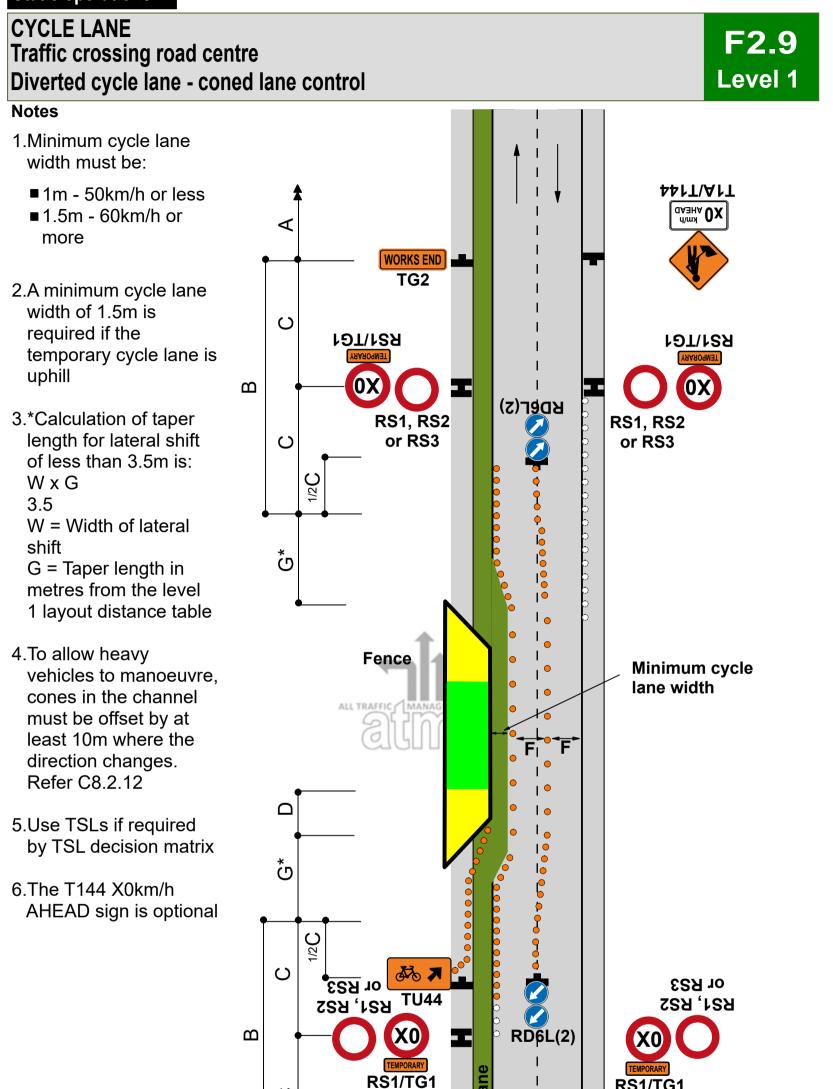
WxG

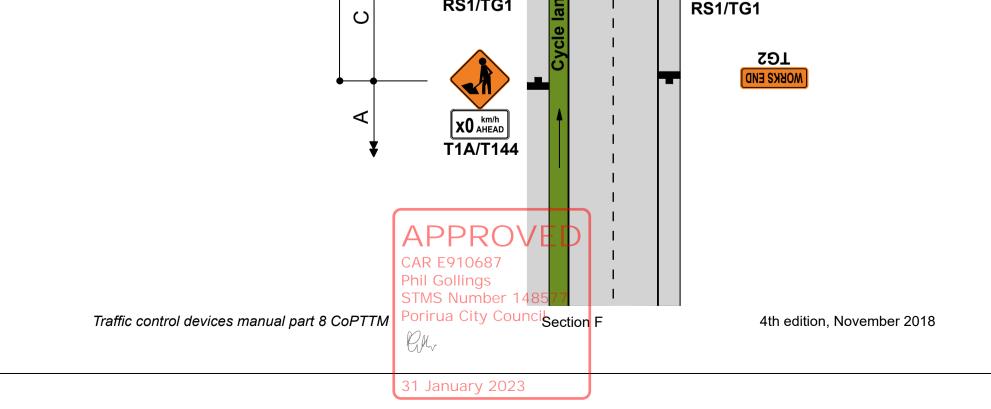
3.5

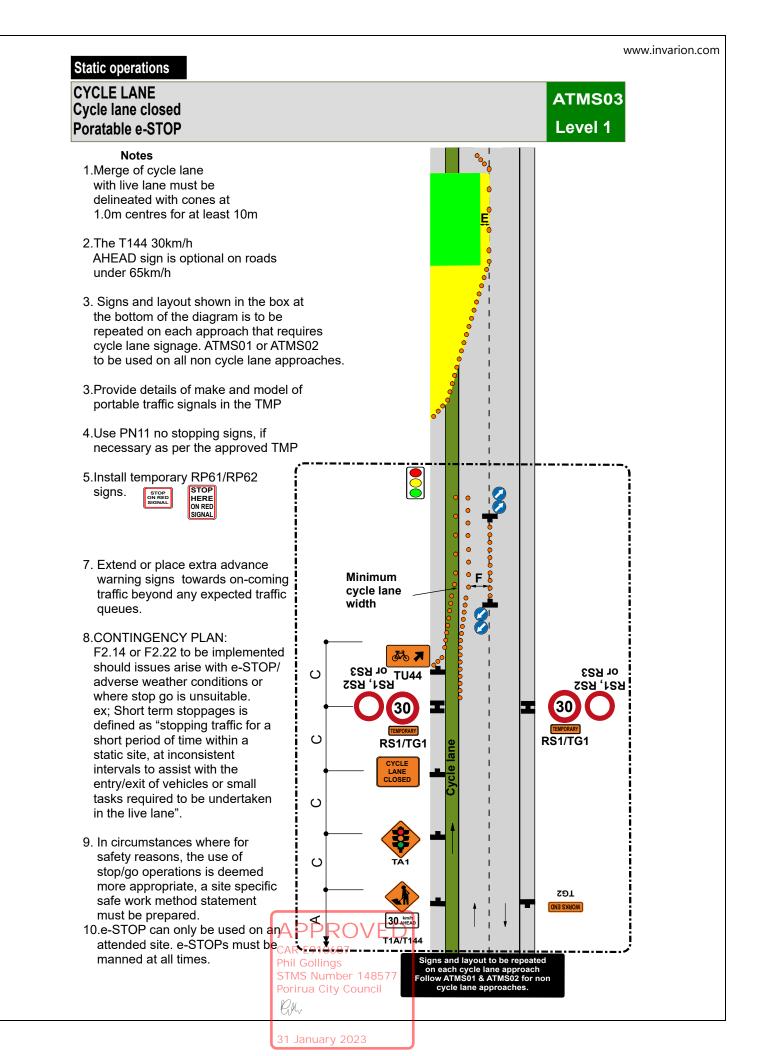
- W = Width of lateral shift
- G = Taper length in metres from the level 1 layout distance table
- 4.Use TSLs if required by TSL decision matrix
- 5.The T144 X0km/h AHEAD sign is optional



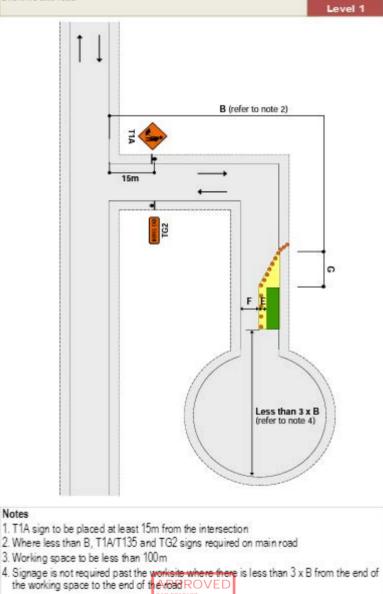
## Static operations







#### TWO-WAY TWO-LANE ROAD Short no exit road



Traffic control devices manual part 8 CoPTTM

Notes

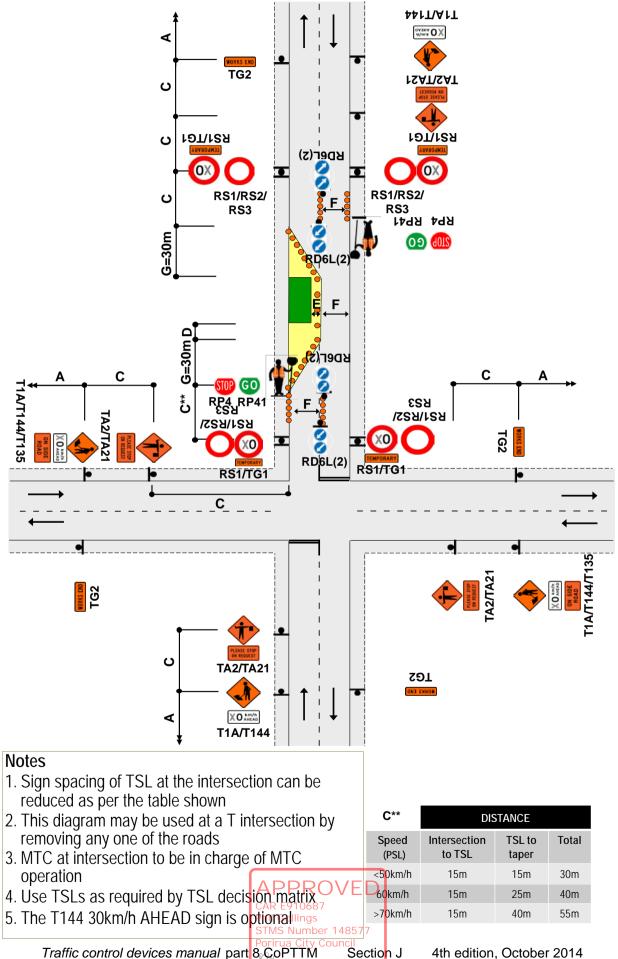
Section J

4th edition, October 2014

J2.16a

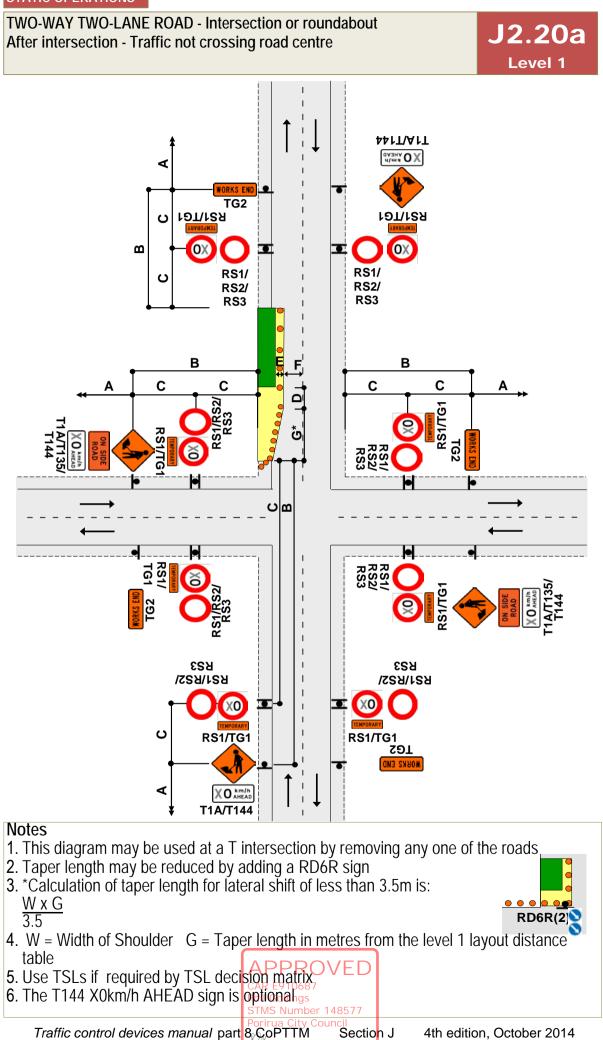
TWO-WAY TWO-LANE ROAD - Intersection or roundabout Major obstruction close to intersection Allows shorter sign spacings and MTC operation

**J2.19**a Level 1

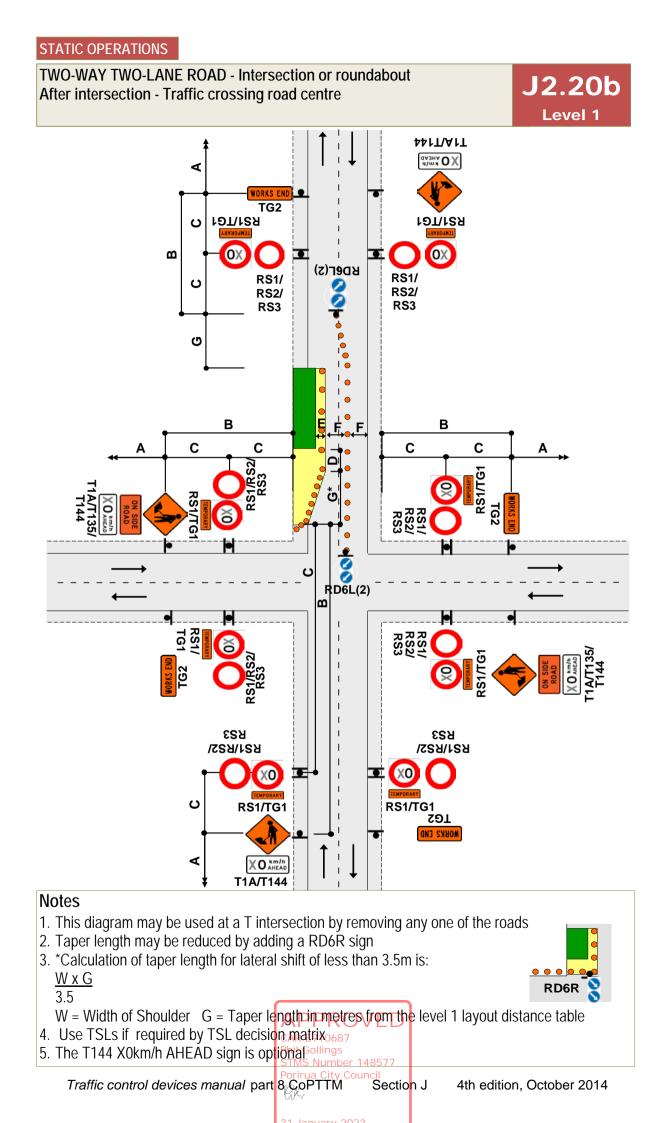


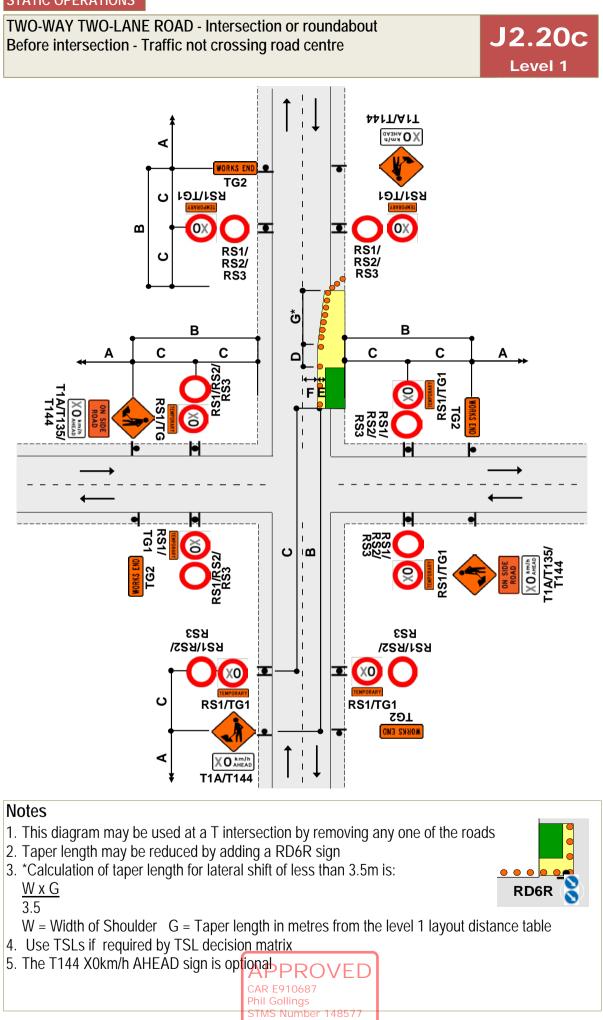
Traffic control devices manual part 8 CoPTTM

4th edition, October 2014



4th edition, October 2014





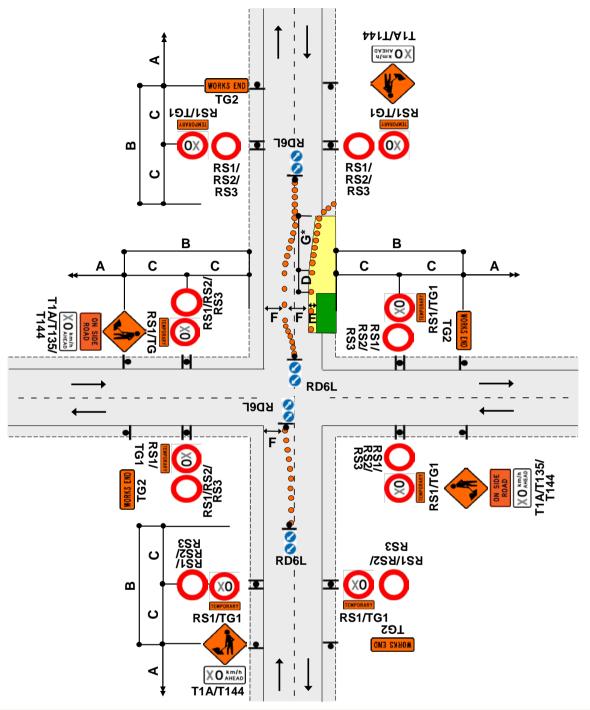
Traffic control devices manual part 8 CoPTTM

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Section J

# TWO-WAY TWO-LANE ROAD - Intersection or roundabout Before intersection - Traffic crossing road centre





## Notes

- 1. This diagram may be used at a T intersection by removing any one of the roads
- 2. \*Calculation of taper length for lateral shift of less than 3.5m is:
  - <u>W x G</u>
  - 3.5

W = Width of lane G = Taper length in metres from the level 1 layout distance table

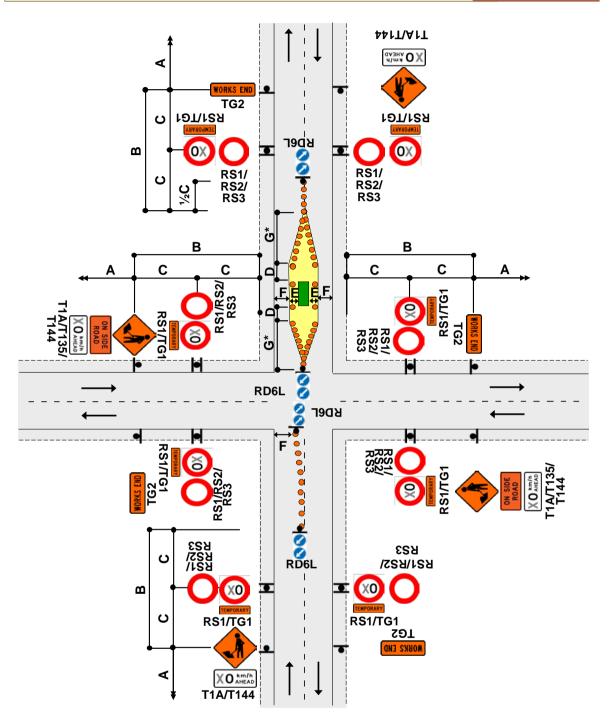
- 3. Install shifting taper to move road users into the new alignment
- 4. Use TSLs if required by TSL decision matrix ROVED
- 5. The T144 X0km/h AHEAD sign is optional collings

Traffic control devices manual part 8 CoPTTM Section J

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#### TWO-WAY TWO-LANE ROAD - Intersection or roundabout On median near intersection

**J2.20e** Level 1



### Notes

- 1. This diagram may be used at a T intersection by removing any one of the roads
- 2. \*Calculation of taper length for lateral shift of less than 3.5m is:
  - <u>W x G</u>

3.5

- W = Width of lane G = Taper length in metres from the level 1 layout distance table
- 3. Install shifting taper to move road users into the new alignment
- 4. Use TSLs if required by TSL decision matrix
- 5. The T144 X0km/h AHEAD sign is optional

