Works Access Permit

Registration Number: **R910333**

Utility Reference: Generic Emergency Excavation & Non Exc



1. Details of Proposed Work

Activity: Pot Holing, Open Trenching, Other (Specify Detail), Hand Digging Address: 838 Fergusson Drive, Upper Hutt Central, Upper Hutt, 5218

Location in road: Carriageway, Footpath, Berm, Nature Strip WAP valid period: 01 January 2023 to 31 December 2023

2. The Parties

Upper Hutt 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 R910333 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	491		Date	26/01/2023					
Eugene Grant acting pursuant to delegated authority.									
FOR Co	FOR Corridor Manager APPROVAL USE ONLY								
Time Sp	ent Processing:								
	Approved Contractor	Route F Submit	V	TMP Submitted	Stockpiling Arrangements				

CONDITIONS

General Conditions

Local Conditions

1. Refer to THE NATIONAL CODE OF PRACTICE for UTILITY OPERATORS ACCESS to TRANSPORT CORRIDORS and THE HUTT VALLEY LOCAL CONDITIONS

CAR Number: R910333

CAR HCC Full Scope of Works Utility

Utility

Company Wellington Water Alliance				
Contract Manager	Tim Harty			
Phone	021 451 104			
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	
Phone	
Email	

Type of Work (Tick)			Emergency	X		
Location Road (Tick)	Carriageway	Х	Footpath	X	Berm	Х

Work Location

Physical Address	Various Locations / Streets within Upper Hutt 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

P1 / P2 Emergency excavation & 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.

Council needs to be notified ASAP.

Main arterial roads:

If Retrospective Tmp is requested traffic management will be added to the Car to upload relevant documents.

Only approved contractors listed on Tmp are covered under Generic 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.
- All digging works can involve but not limited to hand digging / using a digger or utilising a Hydro Vac when required.

Emergency excavation & Non excavation works Causing health and safety issues to the public and is immediately impacting or flooding a property, accessway or other facility.

- 1. Burst 3 Water network leaks which covers repairs / replacements of council assets.
- 2. Urgent mark outs of utility / council assets.
- 3. Urgent Locates.
- 4. Urgent leak detection.
- 5. Poor water quality needing to flush hydrants.
- 6. Operation of hydrants and valves on the same day.
- 7. Missing / broken lids posing a health and safety issue.

- 8. No Water / low water pressure to properties.
- 9. Major Blockage / Overflow in the Wastewater network.
- 10. Urgent flushing and cleaning of Wastewater Inceptors.
- 11. Major blockage / break in the Stormwater network.
- 12. Urgent Replacement of Manhole frame and centres.
- 13. Urgent Replacement of Stormwater and Wastewater laterals.
- 14. Urgently needing to Lift manhole covers to check for blockages.
- 15. Pollution into our Stormwater network or waterways.
- 16. Third party damage to council assets.

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.
- Complete a separate RCP form for every excavation.
- 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 (utility plans).
- Mark out utility / council assets to carry out work above.
- Provide before photos showing a wide street view of location.
- Photo of repairs.
- Photo after the repair and how the site was left.
- · Clear notes of what was repaired.
- Where possible reinstatement will be completed after emergency excavation.
- Site is packed up and left clean and tidy.

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 maintenance work. 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	
CC9	
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:

- Hydro Vac Truck / Digger / Jet Flusher / Mini Combo maybe utilised to assist with repairing leaks.
- Traffic management vehicles if unable to set up own traffic.
- Reinstatement vehicles / plant where possible.

WHEN ARE SITE SPECIFIC TMP'S NEEDED:

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

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

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	

Health and Safety Policy



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 Reliefs

- · 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
- 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.

COLINGWAMPION CHES BIEDITIVE



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

C W Bruyn Managing Director





ROAD SPACE BOOKING

Address:					
Contractor:					
Dates & Times (attended):	From:			То:	
Dates & Times (unattended):	From:			То:	
Generic TMP used:					
Diagram (s) used:					
CAR#					
Work A	ctivity an	nd Reason	s TTM to re	amain ir	nlace:
WOIRA	ctivity an	iu iteasori	13 1 1 W CO 16	ziiiaiii ii	i piace.
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.







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 2022-637	Contractor (Working space): As per attached list	Principal (Client): Wellington Water			
reference			RCA: Upper Hutt City Council			
	Road names and Suburb		Но	House no./RPs		Cmaad Limit
Location details and road			From and to		level	Speed Limit
characteristics	Various within the Upper Hutt City Region		Various		01	30/40/50/60 /70/80km/h
	AADT		Peak flows			
	Various			Start		End
Traffic details (main route)			AM	AM 5:30am		9:00am
, , , , , , , , , , , , , , , , , , , ,			PM 4:00pm			7:00pm



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Description of work avtivity

P1 / P2 Emergency excavation & Non excavation works not needing site specific: Only approved contractors listed on Tmp are covered under Generic Car.

- All work carried out may involve having 1 to 2man onsite including sub-contractors.
- All digging works can involve but not limited to hand digging / using a digger or utilising a Hydro Vac when required.

Emergency excavation & Non excavation works Causing health and safety issues to the public and is immediately impacting or flooding a property, accessway or other facility.

- 1. Burst 3 Water network leaks which covers repairs / replacements of council assets.
- 2. Urgent mark outs of utility / council assets.
- Urgent Locates.
- 4. Urgent leak detection.
- 5. Poor water quality needing to flush hydrants.
- 6. Operation of hydrants and valves on the same day.
- 7. Missing / broken lids posing a health and safety issue.
- 8. No Water / low water pressure to properties.
- 9. Major Blockage / Overflow in the Wastewater network.
- 10. Urgent flushing and cleaning of Wastewater Inceptors.
- 11. Major blockage / break in the Stormwater network.
- 12. Urgent Replacement of Manhole frame and centres.
- 13. Urgent Replacement of Stormwater and Wastewater laterals.
- 14. Lifting manhole covers to check assets running clear.
- 15. Pollution into our Stormwater network or waterways.
- 16. Third party damage to council assets.

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 (utility plans).
- Mark out utility / council assets to carry out work above.
- Provide photos showing a wide street view of location.
- Photo of repairs.
- Photo after the repair and how the site was left.
- Clear notes of what was repaired.
- Where possible reinstatement will be completed after emergency excavation.
- 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 to assist with repairing leaks.
- Traffic management vehicles if unable to set up own traffic.
- Reinstatement vehicles / plant.

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Page 2

CAR R910333 **Eugene Grant**

STMS Number 29097 Section E. appendix A. Traffic management plans





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Consider significant stages, for example:

- road closures
- detours

no activity periods.

Parking Restrictions:

Parking restrictions may be installed upon installation of Emergency TTM installation to ensure work area remains clear of parked vehicles. Parking restriction signage is to show actual work times and dates.

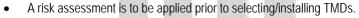
INFORMATION ONLY: In the event of an emergency – vehicles may require towing.

HCC Parking Team to be contacted prior to contacting tow company: 04 570 6666 | 0800 HUTT CITY. Supreme Towing:0800 129 029.

All related towing fees will be directed to the contractor. Towing authority is not approved as part of the TMP process.

Kerb Side Collection:

Kerb side collection occurs Monday to Friday. Works to halt when kerb side collection vehicle is working in the area or onsite personnel to assist with the collection.



- Checking-process-for-GTMPs checklist form (attached) is to be completed prior to using GTMP.
- Reinstatement is to be planned same day or as soon as practicably possible. Pedestrian
 management (remaining on the path/berm) and shoulder closures can remain in place with fencing.
 Any works requiring pedestrian diversion onto the road or larger than a Shoulder Closure must be
 backfilled to road level with aftercare left in place or temporary sealed.
- Wellington Water is responsible for managing the aftercare for all temporary surface contact 04 912 470 or email: landaccess@wellingtonwater.co.nz.

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CAR R910333 Eugene Grant STMS Number 29097



Type of road	On shoulder or roadside – no time limit	On live lane – up to 5 minutes	Over 5 minute	
Low volume (less than 500vpd) category A or B road environment	a practising TMO or an Inspector	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 not	
Category B	Spotter optional – can be one person activity	permitted. Must use a		
	Onsite control must be by either a practising TMO or an Inspector are phased out:			
	Road level	Onsite control		
	Level 2 road (shoulder, roadside or on the lane with speed 60km/h or less)	TC, TC-Inspector or STMS 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	Inspection not permitted. Must use a mobile, semi-static, or static closure.		

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CAR R910333 Eugene Grant STMS Number 29097





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_c 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 activity delayed

N/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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CAR R910333 Eugene Grant STMS Number 29097





- STMS to contact Metlink (0800 801 700) for any works on a bus route or impacting bus stops 30 mins prior to installation.
- STMS to contact WTOC (0800 869 286) for any works affecting or close to traffic signals 30 mins prior to installation.
- Emergency Services (*555) will be called where a one-way system or road closure is installed, 30 mins prior to installation.

Once on site, the TMP will be implemented as follows:

- Emergency situation will be protected as required by delineation or mobile operation in the first instance.
- Identify public safety and site safety hazards and how they will be addressed and place on the hazard document for 'toolbox' briefing
- STMS to check the TMP is appropriate to the worksite.
- 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
- 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.
- STMS to contact Metlink (0800 801 700) 30 minutes prior to site installation
- STMS to contact WTOC (0800 869 286) 30 minutes prior to site installation

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.

- 1. A site drive through will be conducted first to confirm layout, conditions and environment are all appropriate for works to proceed.
- 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.
- 3. Advanced warning signage will be installed first on the left, followed by progressive signage installation in a 'loop' fashion around the site area.
- 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 as per the selected TMDs, this should include the checking of worksite layout distances.

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	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:					
	 Any affected signal loops must be notified to WTOC during the pre-installation call to allow them to adjust signal management. 					
	Works near Pedestrian Crossings:					
	TC's to guide pedestrians through/around the closure.					
	Works near a Bus Stop:					
Attornal od (dov.)	Bus stop integrated into MTC Stop Point					
Attended (day)	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					
	Parking restrictions are to be in place at the relocated bus stop					
	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.					
	 F2.16, F2.24 & F2.25 requires TMC approval prior to use on attended sites. 					
	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.					
	Works near Pedestrian Crossings:					
Attended (night)	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					
	Parking restrictions are to be in place at the relocated bus stop					
	F0.1/ F0.0/ 0. F0.0F TMO					
	F2.16, F2.24 & F2.25 requires TMC approval prior to use on attended sites.					
	CAR R910333					





The state of					
	Where hazards are present an appropriate aftercare closure would be installed as required.				
	 Contractor to perform risk assessment on site and determine if additional lighting sources are required. 				
	A site check must be completed a minimum of once every 24hrs or as required due to adverse weather or complaints.				
Unattended (day)	Driveway access to be maintained where possible before leaving the site. If unable to, alternative arrangements to be made with residents, businesses, others.				
	Road Space Booking (attached), CAR and email notification to the TMC & Corridor access manager will be required for any works required to be left unattended.				
	Use of Traffic Signals (F2.17), F2.16, F2.24 & F2.25 & F2.4 must be approved by TMC prior to leaving on an unattended site.				
	e-STOPs – ATMS 02, ATMS 03 & ATMS 05 are not permitted for use whilst site is unattended – e-STOPs must be manned at all times. e-Stops are a remote control MANUAL operated system so cannot physically operate when unattended.				
	 Unattended site for concrete setting maybe left as required in footpath, berm or shoulder using F2.1, F2.2, F2.3, F2.7 Must be approved prior by TMC. 				
Unattended (night)	As per Unattended (day)				
	A detour route may be required during emergency works – TMC approval must be given from the TMC prior to installation.				
Detour route	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.				
	Emergency Services (*555) will be called when one-way system or road closure is removed.				
	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	Workspace delineation to be removed first (by either removing to the kerb for later collection or directly onto a stationary working vehicle)				
	2. Centreline delineation may now be removed using the same method as installation				
	3. Once all delineation is removed – sign removal may commence in a clockwise 'loop' fashion (leaving advanced warning signage in place till last)				
	4. A full site check being conducted prior to site departure.				
	The STMS will carry out the final check before leaving the site.				

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)	Times (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 daily333 Eugene Grant STMS Number 2909		01/01/2023 - 31/12/2023	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,

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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) STMS to document on the Onsite Record daily.	24hrs	01/01/2023 - 31/12/2023	F2.1, F2.2, F2.3, F2.7,F2.11, F2.12, F2.13, F2.26, F2.27, F2.28, F2.29, F2.16, F2.17, F2.18, F2.19, F2.20, F2.30, F2.31
TSL duration	Will the TSL be required for longer than 12 months? If yes, attach the completed checklist from section I-18: Guidance on TMP Monitoring Processes for TSLs to this TMP.		No	

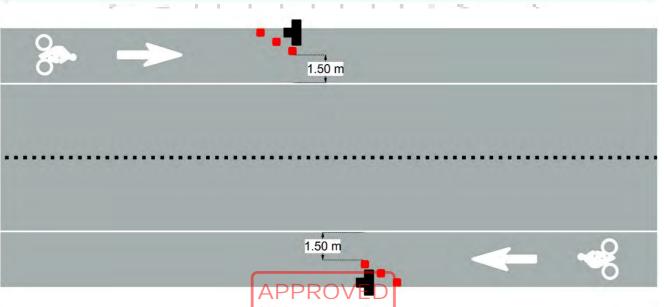
Positive traffic management measures

- Side friction delineation installed from TSL to the start of the taper.
- Additional cones may be placed on centerlines, edge lines or shoulders to increase site safety and reduce vehicle speed.
- Use of paddles and TSL
- Cone offset delineation where cones are placed either side of the lane(s), the cones on one side are placed longitudinally offset from the other by half a cone spacing.

Side friction is used to create a tunnel effect for drivers. The STMS can employ this method whilst still retaining required lane width.

The longitudinal length of the side friction depends on the length of the area required for reduced speed

Reduced cone spacing (2.5m)



CAR R910333 Eugene Grant STMS Number 29097





Contingency plans

Generic contingencies for:

- major incidents
- incidents
- pre planed detours.

Remove any options which do not apply to your job

Major Incident

A major incident is described as:

- Fatality or notifiable injury real or potential
- Significant property damage, or
- Emergency services (police, fire, etc) require access or control of the site.

Actions

The STMS must immediately conduct the following:

- · stop all activity and traffic movement
- secure the site to prevent (further) injury or damage
- contact the appropriate emergency authorities
- render first aid if competent and able to do so
- notify the RCA representative and / or the engineer
- 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
- re-establish TTM and traffic movements when advised by emergency authorities that it is safe to do so
- Comply with any obligation to notify WorkSafe.

Incident

An incident is described as:

- excessive delays real or potential
- minor or non-inquiry accident that has the potential to affect traffic flow
- structural failure of the road.

Actions

The STMS must immediately conduct the following:

- stop all activity and traffic movement if required
- secure the site to prevent the prospect of injury or further damage
- notify the RCA representative and / or the engineer
- STMS to implement a plan to safely remove TTM and to establish normal traffic flow if safe to do so
- re-establish TTM and traffic movements when it is safe to do so and when traffic volumes have reduced.

Detour

If because of the on-site activity it will not be possible to remove or reduce the effects of TTM once it is established a detour route must be designed. This is likely for:

MANAG

- excessive delays when using an alternating flow design for TTM
- redirecting one direction of flow and / or
- total road closure and redirection of traffic until such time that traffic volumes reduce and tailbacks have been cleared.

The risks in the type of work being undertaken, the risks inherent in the detour, the probable duration of closure and availability and suitability of detour routes need to be considered.

The detour and route must be designed including:

- pre- approval form the RCA's whose roads will be used or affected by the detour route
- ensure that TTM equipment for the detour signs etc are on site and pre-installed.

Actions

When it is necessary to implement the pre-planned detour the STMS must immediately undertake the following:

- Notify the RCA and / or the engineer when the detour is to be established
- Drive through the detour in both directions to check that it is stable and safe
- Remove the detour as soon as it practicable and safe to do so and the traffic volumes have reduced and tailbacks have cleared
- Notify the RCA and / or the engineer when the detour has been disestablished and normal traffic flows have resumed.





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 of any person, or
- make the site safe or to minimise the risk of a further accident; or
- maintain the access of the general public to an essential service or utility, or
- · prevent serious damage to or serious loss of property, or
- 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 the applicant

the applicant (i.e. steel plates to quickly cover excavations) This will be determined on a case-by-case basis. Where achievable works will stop until emergency or delays have been cleared.

Emergency services will be assisted through all sites.

Should signals or e-STOPs fail – Manual Traffic Control is to be installed immediately (refer to F2.14 & F2.22).

Authorisations						
Parking restriction(s)	Will controlled street parking be affected?	Yes (potentially)	Has approval been granted?	N/A		
alteration authority	N/A – TMC to be notified if mobility parking is aff	fected		•		
Authorisation to work at permanent	Will portable traffic signals be used or permanent traffic signals be changed?	Yes (potentially)	Has approval been granted?	No		
traffic signal sites	WTOC to be notified 30 mins prior to site installa	ation and upon re	moval.			
Road closure authorisation(s)	Will full carriageway closure continue for more than 5 minutes (or other RCA stipulated time)?	Yes (potentially)	Has approval been granted?	No		
	TMC will be notified prior to installation of a road closure for approval. Emergency services will be notified of installation and removal.					
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 model# 62 62 630	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

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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 queueing is apparent, the STMS is to implement one of the following contingency plans;

- 1) Traffing Metering
 - Send only a specific amount of vehicles 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 open the tapers
- 3) Prioritise high flow route
 - Send vehicles from the approach with the highest flow first. Hold side street 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 will continuously monitor for delays – TMC will be notified of any excessive delays.

Public notification plan

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

Residents/businesses will be notified on the day of emergency works via face-to-face discussions.

No

Public notification plan attached?

On-site monitoring pla	n .
	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.
(day and/or riight)	STMS/TC to monitor and assist pedestrians, cyclists and driveways when needed.
Unattended (day and/or night)	Unattended site to be checked at least once every 24 hours with site check frequency increasing in the case of inclement weather or complaints.
	If temporary signals are used (F2.17) site checks are to be completed 2hourly or as required due to inclement weather or complaints.

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
- 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 barrier system be used at this worksite?	DRO \desig	nas the temporary safety barrie ed by an installation designer a ndently reviewed as being fit fo	nd	N/A
	Statement from temporary safety t	parrier installation d	sig <mark>n</mark> er attached	N/A	

STMS Number 29097





Other information

LEVEL 1 LAYOUT DISTANCES TABLE

	manent speed limit or RCA- ignated operating speed (km/h)	≤50	60	70	80	90	100
Tra	ffic signs		11000				
Α	Sign visibility distance (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
Safe	ety zones						
D	Longitudinal (m)	10 or 5*	15	30	45	55	60
E	Lateral (m)	1	1	1	1	1	1
Тар	ers						
G	Taper length (m)*	30	50	70	80	90	100
Κ	Distance between tapers (m)	40	50	70	80	90	100
Del	ineation devices						
Cor	ne spacing in taper (m)	2.5	2.5	5	5	5	5
Cor	ne spacing: Working space (m)	5	5	10	10	10	10

- Larger minimum distances apply on all state highways and also on all multi-lane roads. The smaller minimum distances may be applied on other roads to accommodate road environment constraints.
- # On non-state highways with speeds 50km/h or less, a 10m taper (with cones at 1m centres) may be used when there are road environment constraints (eg intersections and commercial accesses).

On all roads where shoulder width is less than 2.5m and the activity does not affect the live lane, a 10m shoulder taper is permitted (with at least 5 cones at no greater than 2.5m centres).

A taper of 30m (with cones at 2.5m centres) must be used where manual traffic control (stop/go), portable traffic signals or priority give way are employed.

Lan	e widths								
Spe	ed (km/h)	30	40	50	60	70	80	90	100
F	Lane width (m)	2.75	2.75	3.0	3.0	3.25	3.25	3.5	3.5

Except for delineation device spacings, which are maximum values, the distances specified in the above tables are minimum values.

Attached Diagrams

See TMDs Listed Below and also TMDs attached to this TMP

Pedestrian Management

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

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Section Pappendix A. Traffic management plans

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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
- 9. CC4 Footpath diverted onto shoulder or parking lane
- 10. CC5 Footpath Controller
- 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. ATMS Info Only Narrow Shoulder
- 24. F2.15 Stop Stop
- 25. F2.16 Priority Give Way Requires TMC approval
- 26. F2.17 Traffic Lights Requires TMC approval for unattended sites
- 27. F2.18 Works in centre of road
- 28. F2.19 Intersection
- 29. F2.20 Intersection
- 30. F2.21 Works in middle of intersection
- 31. F2.30 Left Lane Closure (1 way, 2 lane)
- 32. F2.31 Right Lane Closure (1 way, 2 lane)

Road Closure/Detour Examples

- 33. F2.24 Road Closure/Detour Example Requires TMC approva
- 34. F2.25 -Detour Route Example Requires TMC approval

No Entry - Resident Access

35. ATMS08 - Cul De Sac Closure

Hazards/Aftercare

- 36. F2.26 Hazard Flooding
- 37. F2.27 Hazard New Seal
- 38. F2.28 Hazard Surface Hazard
- 39. F2.29 Hazard Seal Repairs on a curve

Mobile Operations/Semi Statics

- 40. F4.1 Mobile Operation 5m from edgeline
- 41. F4.2 Mobile Operation within 5m of edgeline
- 42. F4.3 Mobile Operation with pilot

Traffic control devices manual part 8 CoPTTM

- 43. F4.4 Mobile Operation work vehicle in lane
- 44. ATMS06 Semi Static (right or left lane)
- 45. Mobile Closure L1 Install & Removal

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CAR R910333 **Eugene Grant**

STMS Number 29097





Cycle Lanes

- 46. F2.8 Cycle Lane Diversion
- 47. F2.9 Cycle Lane Diversion
- 48. ATMS03 Cycle Lane e-STOP

Section J diagrams

- 49. J2.16a
- 50. J2.19a
- 51. J2.20a
- 52. J2.20b
- 53. J2.20c
- 54. J2.20d
- 55. J2.20e



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	Commenced Comment	Name	24/7 contact	CoPTTM	Ouglification	Expiry
	Company / Council	Name	number	ID	Qualification	date
Principle	Wellington Water	Tim Harty	021 451 104	-	-	-
TMC	Upper Hutt City Council	Eugene Grant	027 227 8029	-	-	-
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	-	-	ı
	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	-	7.	-
	Kahu Contractors	Harold Paul	021 027 37643	-	-	-
	Jet black Asphalt	Neville Playford	027 208 9309	. STILL TO	ear m i n can	1003
	GP Friel	Dave Phillipson	022 657 2402	617 8	COUNT	(C) (C)
Contractor	Detection Services	Tim Armstrong	027 4576 113	200	HE IS WITH	
Interim	Detection Services	Ross Beckett	04 915 0530		S	-
Contacts	E Carson & Sons	Eddie Carson	027 442 4343	(C)	Selection .	-
	AD Riley & Co Ltd	Chris Parkinson	021 305 637		500 ·	-
	P & N Siteworks	Peter Lindsey	027 2358 363	The same of	of Mile	-
	Central Plumbing (Wellington) Ltd	Anthony Eden	022 6385 704	7	7 -	-
	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	-	-	-
	SONAS	Edward Rooney	027 326 4068	-	-	-
	Southeys Group	Leonard Vertigans	027 275 4315	-	-	-
	S & R Asphalts Ltd	Scott Hay	027 440 2405	-	-	1
	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	EEddy Warda t	022 018 0705	-	-	-





AGENCY	unic	JOI NOA COITHACHTEIG	0.000			
	HCC Trade Waste Team	Pakau Tanirau	027 2441 6376	-	-	-
	HCC Trade Waste Team	David Fahey	027 642 3345	-	-	-
	Drain Doctors	Ian Pauley	04 566 9252	-	-	-
	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					
	(CCL)	Steve Scrimshaw	(04) 567 9777			
	E N Ramsbottom Ltd	Michelle Hoffman	027 471 6246			
	Horokiwi Paving 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			
	ATMS	Vena Lam Sam	021 767 165	39930	(ABC)-NP R L2/3 P	22/09/24
	ATMS	Martyn Sauaiga	027 348 9478	72781	L 2/3 NP	30/07/23
	PTS	Bux Manuseuga	027 836 5243	-	1	-
	Wellington Water	Steve Watt	021 507 440	-	1	-
	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	027 4430 791	-	-	-
	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	Nathan Rose	027 275 4317	-	-	-
	HCC Trade Waste Team	Pakau Tanirau	027 2441 6376	-	-	-
	HCC Trade Waste Team	David Fahey	/ C 027 642 3345	-	-	-
	P & N Siteworks	PeterLindseys	027 <mark>2</mark> 358 363	-	-	-
	-	Eugene Grant	 	1	<u> </u>	

Eugene Grant STMS Number 29097





Central Plumbing (Wellington) Ltd	The state of the s						
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			Anthony Eden	022 6385 704	-	-	-
Hydrotech Group Neil Cherry 021 730 502 - -		Detection Services	Tim Armstrong	027 4576 113	-	-	-
Hydrotech Group		Quik-Shot Trading as AES	Eddy Warda	022 018 0705	-	-	-
Intergroup Wayne Carling 027 239 7187 - - Intergroup Kerrod Foaese 021 133 5973 - - Shepherd Traffic Richard Shepherd 029 777 9099 - - Men At Work Kurt Puryer-Smith 027 274 2369 027 282 0998 Todd Lynch 027 514 9675 TPlans Limited Tayla Varcoe 021 717 592 Traffic Safe Julie Hitchock 027 450 6565		Hydrotech Group	Neil Cherry	021 730 502	-	-	-
Intergroup Kerrod Foaese 021 133 5973 - - Shepherd Traffic Richard Shepherd 029 777 9099 - - Men At Work Kurt Puryer-Smith 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		Hydrotech Group	Paul Reynolds	021 730 486	-	-	-
Shepherd Traffic Management Solutions Richard Shepherd 029 777 9099 -		Intergroup	Wayne Carling	027 239 7187	-	-	-
Management Solutions		Intergroup Kerrod Foae		021 133 5973	-	-	-
Todd Lynch 027 282 0998 Ratu Kapaiwai 027 514 9675 TPlans Limited Tayla Varcoe 021 717 592 Traffic Safe Julie Hitchock 027 450 6565			Richard Shepherd	029 777 9099	-	-	-
Ratu Kapaiwai		Men At Work	Kurt Puryer-Smith	027 274 2369			
TPlans Limited Tayla Varcoe 021 717 592 Traffic Safe Julie Hitchock 027 450 6565			Todd Lynch	027 282 0998			
Traffic Safe Julie Hitchock 027 450 6565			Ratu Kapaiwai	027 514 9675			
		TPlans Limited	Tayla Varcoe	021 717 592			
Traffic		Traffic Safe	Julie Hitchock	027 450 6565			
Management NZ Ltd lan Satherley 021 400 023			Ian Satherley	021 400 023			
STMS STMS to be confirmed prior to works	STMS		prior to works	1001	-	-	-
TC TC to be confirmed prior to works	TC	TC to be confirmed p	orior to works	-	-	STILE ST	-
WTOC 0800 869 286		WTOC		0800 869 286	-		-
Others as Metlink Contact Centre 0800 801 700	Others as	Metlink Contact	Centre	0800 801 700	-		-
required	required	-		-	-	-	-

ALL TRAFFIC MANAGEMENT SERVICES

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TMP preparation							
Preparation	Dylan Green	12/03/2022	DGreen	68522	L 2/3 NP	-	17/03/2023
	Name (STMS qualified)	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	f diagrams atta	ched	55					
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					equired		
TMD Assessed								
TMP Approved	Name	Date	Signature	ID no.	Qualification	Expiry date		
Acceptance by TMC (only required								
if TMP approved by engineer)	Name	Date	Signature	ID no.	Qualification	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.
- 4. 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		Notification completed	Date Time					

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TEMPORARY SPEED LIMIT (TSL) INSTRUCTIONS Appendix B Select the appropriate road condition description for each of the four factors, and in the right hand circle list the **DECISION MATRIX** chosen TSL for that road condition. Transfer lowest TSL to the bottom circle. **WORKSHEET** Possible **EXCELLENT AVERAGE BELOW AVERAGE POOR** Temporary Speed Limit Minimum Lane Width 3.25m 3.00m 2.75m 3.5m **Payement / Surface Condition** The shoulder and lane is clear of The road is close to normal condition There are major defects and / or Defects and / or loose material on the loose or greasy material and the except for a few minor defects significant loose material on the lane lane (eg unattended reseals) traveled way is smooth (eg recently milled surface, large (eg small pot holes or a few pieces of **50km/h** for protection of a new seal stones, steel plates) loose aggregate) 70km/h where new seal has been swept but not marked Visibility and Alignment There is greater than 140m visibility There is less than 140m visibility to the There is less than 60m visibility to the first There is less than 30m visibility to the first first cone in taper, to the first cone in taper, cone in taper, cone in taper, and the worksite has not imposed a vehicles are deflected by 20 degrees or vehicles are deflected by 20-45 degrees vehicles are deflected by more than 45 less from the original direction of travel from the original direction of travel change in alignment degrees from the original direction of travel Deflected by less than 20° Deflected by 20° to 45° Deflected more than 45° Site Clutter Low site clutter, clear vehicle lanes. Some site clutter either plant or Considerable site clutter requires Has numerous driver distractions including materials, vehicle lanes, cycle lanes cycle lanes and footpaths additional management to guide construction traffic. and footpaths are lightly trafficked vehicles though the site. Cycle lanes or footpaths are closed. Some queues of road users 30km/h 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 not APPROVED separated from the working space) Is the lowest speed 80km/h or less and at Yes **Use this Temporary Speed Limit**

least 10km/h below the permanent speed?

Click here to reset

No Temporary Speed Limit Required

No

ROAD SPACE BOOKING

Address:					
Contractor:					
Dates & Times (attended):	From:			То:	
Dates & Times (unattended):	From:			То:	
Generic TMP used:					
Diagram (s) used:					
CAR#					
Work Ac	ctivity a	nd Reasor	ns TTM to re	main in	place:
	I				
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.



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CAR R910333 Eugene Grant STMS Number 29097 Upper Hutt City Council

<u> </u>	ss for generic TMPs							
	milar company record, must be comp	oleted prior	to set ι	up of a	worksite whe	ere a generic TN	MP is used.	
Location details								
Road name(s)			House numbe	r/RP(s	5)		Suburb	
Road name(s)			House numbe	r/RP(s	s)		Suburb	
Generic TMP reference no.	TM	ID no(s).					te: The checking plude all the TMDs	
Category	Points to consider		Υ	N	Comment/M	itigation		
Road level	Is this at the correct road level?							
	Are the following catered for in t TMP?	he generic						
	• Intersections							
Shape	Vertical Curves (hills)							
	Horizontal Curves (corners)							
	Sufficient advance warning							
	Check that there is:							
	sufficient length to place the direction and protection	planned						
Direction and protection	sufficient road width to place planned direction and protect minimum lane width is 2.75m	tion ie						
	adequate sight distance on b	oth sides						
	sufficient room to accommod required positive traffic control							
Proposed speed	Is a TSL required?							
restrictions	Refer to the TSL decision matrix CoPTTM (section E Appendix B							
Plant and equipment	Will your plant and equipment fit designated working space?	within the						
Personal safety	Are all workers able to carry out within the designated working s							
reisoliai salety	If not are they covered by the ru inspections?	les for						
	Is diagram(s) detailed in the ger	eric TMP?						
Layout diagrams	Does the diagram(s) match the written section of the TMP?							
RCA notification	Has the RCA been notified?							
Completed by:								
STMS/TC in charge of								
worksite	Name		Sign	ature		Date	Qualification	ID number
(All names to be entered before		APPI	RO'	VEI				
site set-up)	Name	Eugene G	raSign	ature		Date	Qualification	ID number

Upper Hutt City Council

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

ON-SITE RECORD MOBIL	E OPERATIONS (On-site rec	ord mu	st be completed a	nd r	retained with the appl	ied TMP for 12 month	ıs)	Today's date		
STMS in charge of TTM										
Name			NZTA warrant		TTM ID Number	NZTA warrant expiry date	piry date 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?		se?	Ho	S/RD6/AWVMS/VMS/ rizontal arrow ards are fit for rpose?	purpose	ор	operating OK and batteries opera		gns for work are fitted to all and are fit for
Time the check was completed:		In char signat	rge STMS ure:							

Affected Road Environment Details							
Worksite start point	Worksite end point	Start	End				
CAR R910333 Eugene Grant	D						
	APPROVE CAR R910333 Eugene Grant	Worksite start point Worksite end point APPROVED CAR R910333	Worksite start point Worksite end point Start APPROVED CAR R910333 Eugene Grant				

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/VMS/Horizontal arrowboards continue to operate correctly	Road clear and available for planned work?	Static equipment maintained?	Safety zones maintained?	Working space adequate and maintained?	
Comments rela	iting to any changes	and or improvements	to the approved TTM/TMP					
Time of comment	Detail							
			APPR(CAR R910333					
			Eugene Grant STMS Numbe Upper Hutt Ci	r 29097				

TMP or generic plan reference

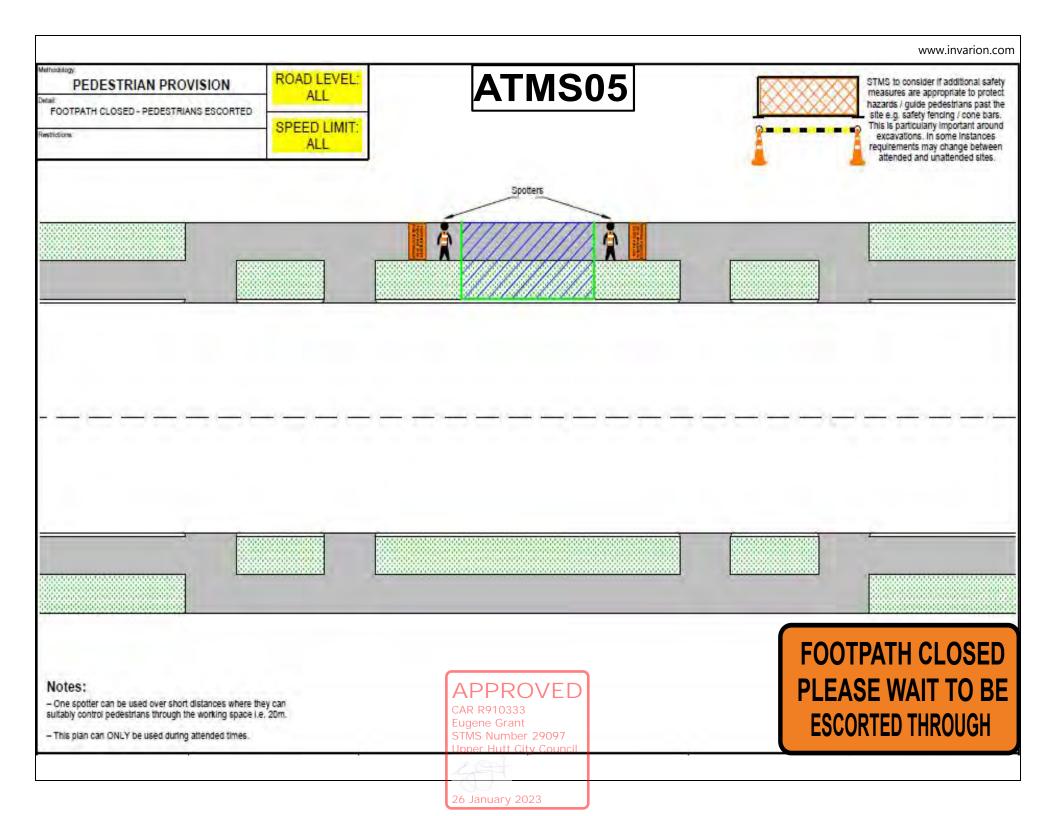
ON-SITE RECORD On-site record must be retained with TMP for 12 months.					Foday's date			
Location details	Road names(s):	House number/RPs	S :	Suburb:				
Working sp	ace							
Person responsible for working space Where the STI	Name MS/TC is responsible for both the working	g space and TTM they s	Signature ign above an	d in the	appropriat	'e TTM L	oox below	
TTM								
STMS in charge of TTM								
Worksite	Name	TTM ID Number	Warrant expiry date		Signature			Time
handover accepted by								
replacement	Name Tight to confirm bondover briefing	ID Number	Warrant expiry date		Signature			Time
STMS	Tick to confirm handover briefing completed							
Delegation								
Worksite control								
accepted by TC/STMS-NP	Name	ID Number	Warrant expi	nt expiry date Sign		gnature		Time
TC/STIVIS-NP	Tick to confirm briefing completed							
Temporary	<u> </u>							
Street/road na	ime (RPs or street numbers):	TSL action	Date:	Time	ne: TSL spee		Length of	TSL (m):
		TSL installed TSL remains in place						
From:	To:	TSL removed						
Street/road na	ime (RPs or street numbers):	TSL action	Date: Time:		: TSL	speed:	Length of	TSL (m):
		TSL installed				<u>. </u>		
		TSL remains in place						
From:	To:	TSL removed						
Street/road na	ime (RPs or street numbers):	TSL action	Date:	Time	e: TSL speed:		Length of	TSL (m):
		TSL installed						
From: To		TSL remains in place						
From:	To:	TSL removed	l	l				()
Street/road na	ime (RPs or street numbers):	TSL installed	Date:	Time	: ISL	speed:	Length of	TSL (m):
		TSL installed TSL remains in place						
From:	To:	TSL removed						
	<i>A</i> (APPROVED CAR R910333 Eugene Grant STMS Number 29097		<u> </u>	l			

Traffic control devices manual part 8 CoPTTM

TMD	or	apparic	nlan	reference
IIVIE	OI.	uchelic	viaii	I CI CI CI ICC

Worksite mon	itoring							
TTM to be monitor	red and 2 hourly ir	nspections doc	umented below	'.				
Items to be inspected		TTM set-up	2 hourly check	2 hourly check	2 hourly check	2 hourly check	2 hourly check	TTM removal
High-visibility garment worn by all?								
Signs positioned as per TMP?								
Conflicting signs c	overed?							
Correct delineation	n as per TMP?							
Lane widths appropriate?								
Appropriate positive TTM used?								
Footpath standard	ls met?							
Cycle lane standa	rds met?							
Traffic flows OK?								
Adequate property	access?							
Barrier deflection area is clear? (Refer to Barrier design statement)								
Add others as requ	uired							
Time inspection	completed:							
Signature:								
Comments:	,		1					
Time	Adjustment m	nade and reas	on for change					
					<u> </u>			
			7	ROVED	1			
			CAR R910: Eugene Gr STMS Nun					
			Upper Hut	t City Council				

Traffic control devices manual part 8 CoPTTM



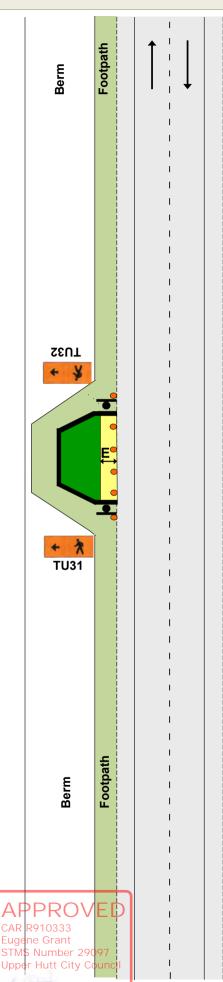
FOOTPATH

Footpath diverted onto berm behind working space First preference

F2.1 Level 1

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. Temporary footpath surfaces 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. This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane



Section F

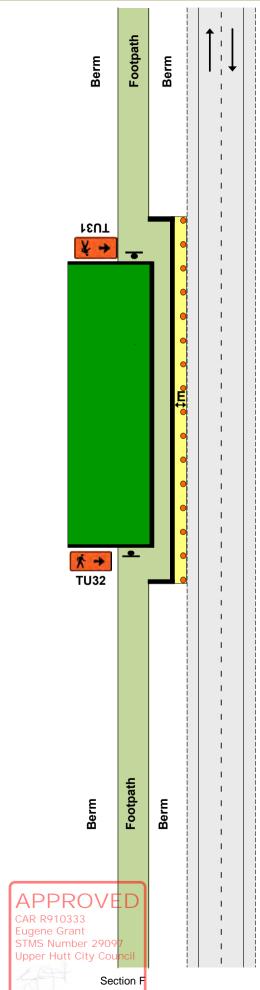
FOOTPATH

Footpath diverted onto berm between working space and carriageway Second preference

F2.2 Level 1

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. Temporary footpath surfaces 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 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
 - 1m for safety fence or cone bars
- 7.This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane



FOOTPATH

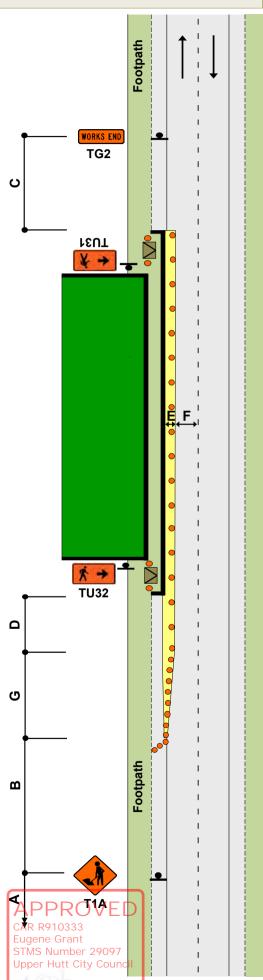
Footpath diverted onto carriageway Third preference

F2.3 Level 1

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



Section F

TMC APPROVAL REQUIRED

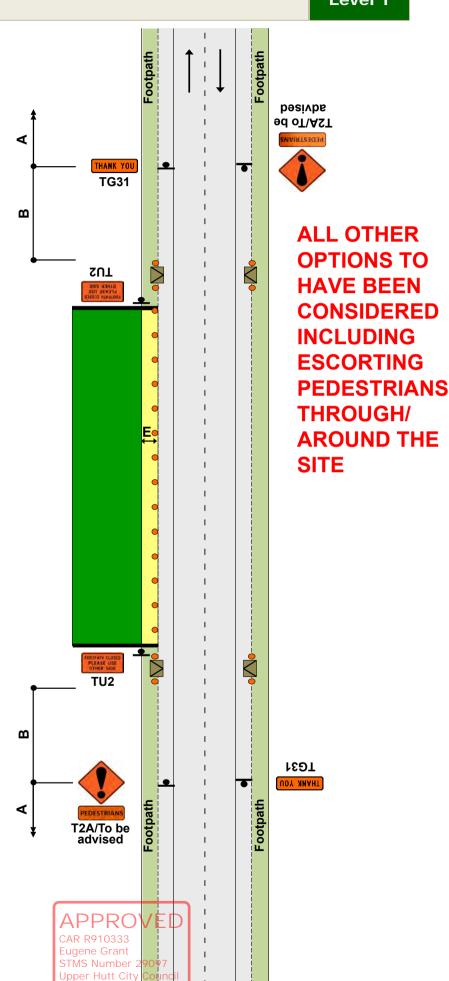
FOOTPATH

Footpath closed - permanent speed less than 65km/h Fourth preference

F2.4 Level 1

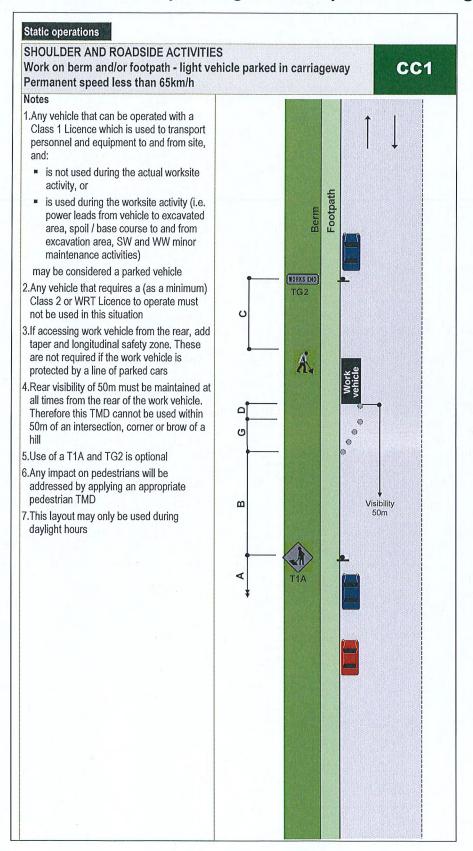
Notes

- 1.Use T2A and PEDESTRIANS supplementary plate to alert road users to the potential of footpath users crossing the carriageway
- 2.Use safety fence at each end of working space
- 3.Use kerb ramps
- 4.Use another TMD as well, where working space/safety zone encroaches on live lane
- 5.This TMD must be used in conjunction with appropriate TTM for any work carried out on the shoulder or in the live lane

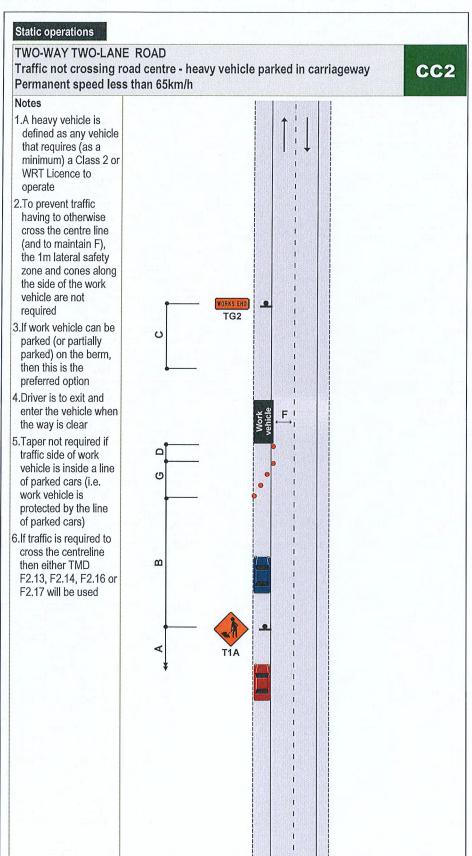


Section F

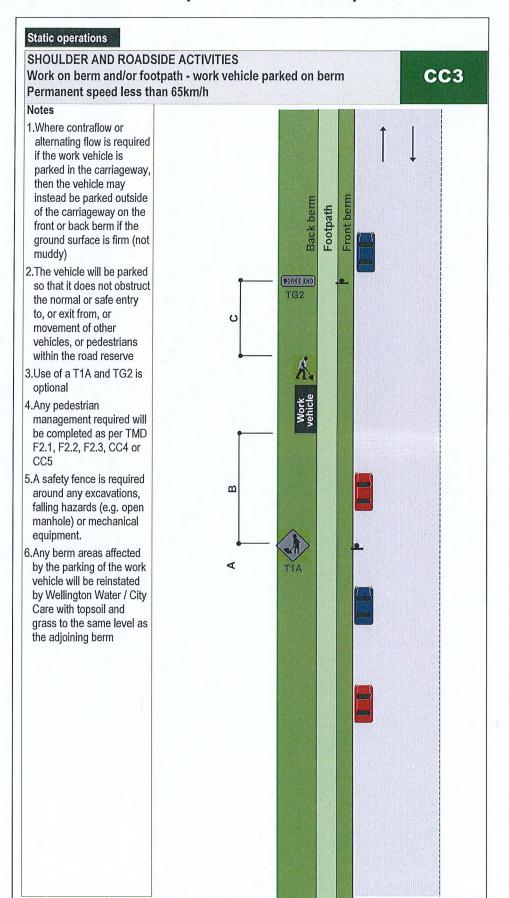
1. CC1 Work on berm or footpath - light vehicle parked in carriageway



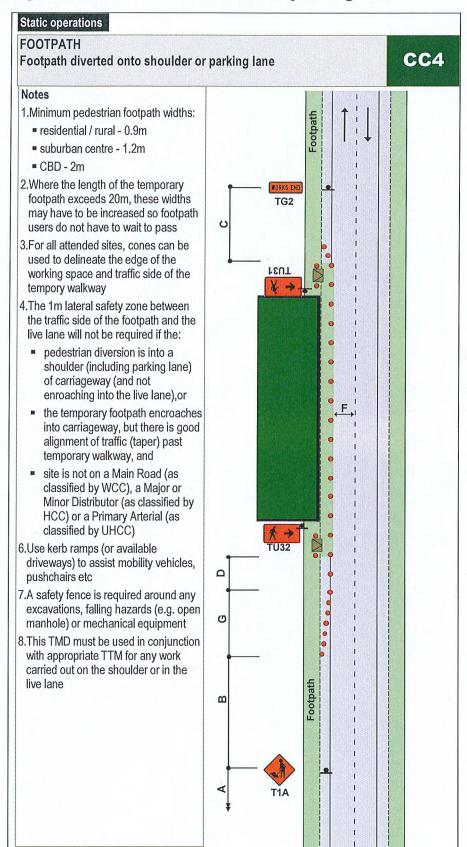
2. CC2 Traffic not crossing road centre - heavy vehicle parked in carriageway



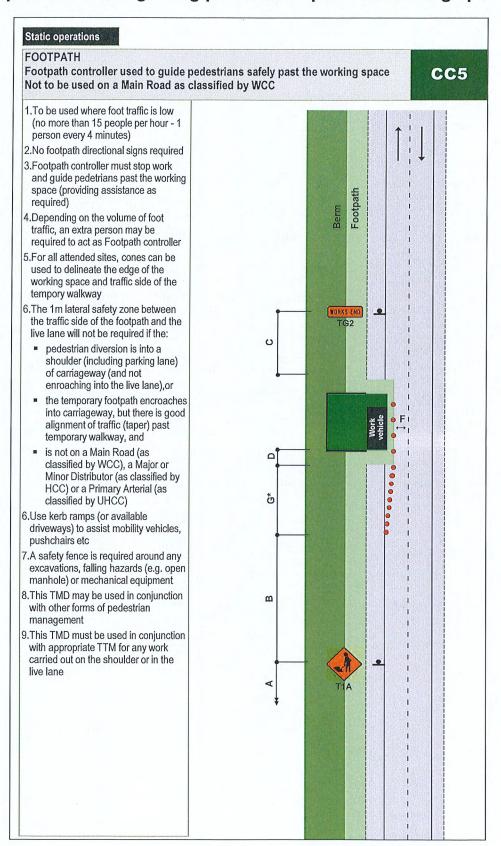
CC3 Work on berm and/or footpath - work vehicle parked on berm



3. CC4 Footpath diverted onto shoulder or parking lane



CC5 Footpath controller guiding pedestrians past the working space

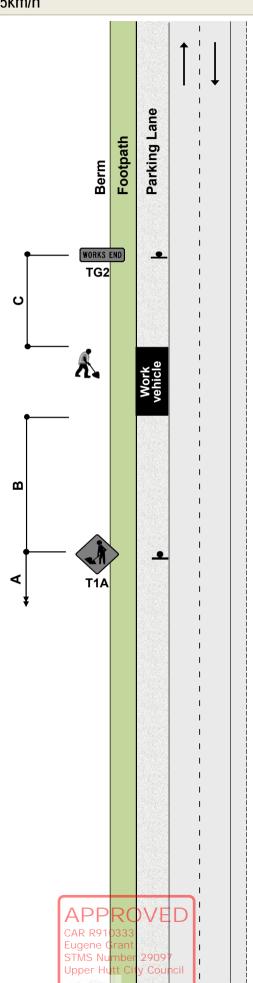


SHOULDER AND ROADSIDE ACTIVITIES Work on berm and/or footpath Permanent speed less than 65km/h

F2.5 Level 1

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



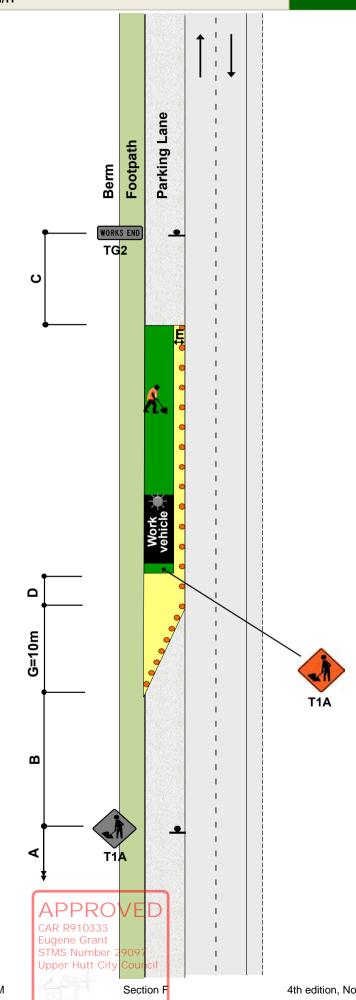
Section F

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

Level 1

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



SHOULDER AND ROADSIDE ACTIVITIES Shoulder closure

F2.7 Level 1

Notes

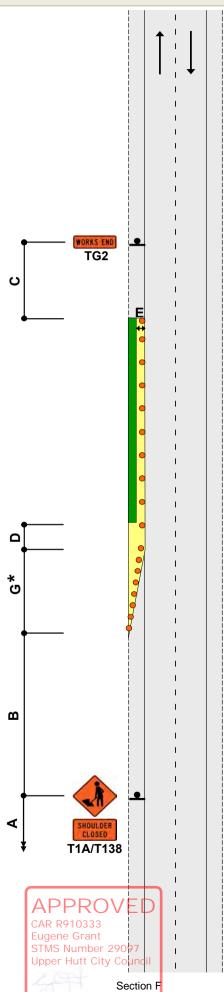
- 1.A 10m taper is allowed where shoulder width is less than 2.5m
- 2.*For shoulders exceeding 2.5m width, apply the following calculation; calculation of taper length for lateral shift of less than 3.5m is:

W x G

3.5

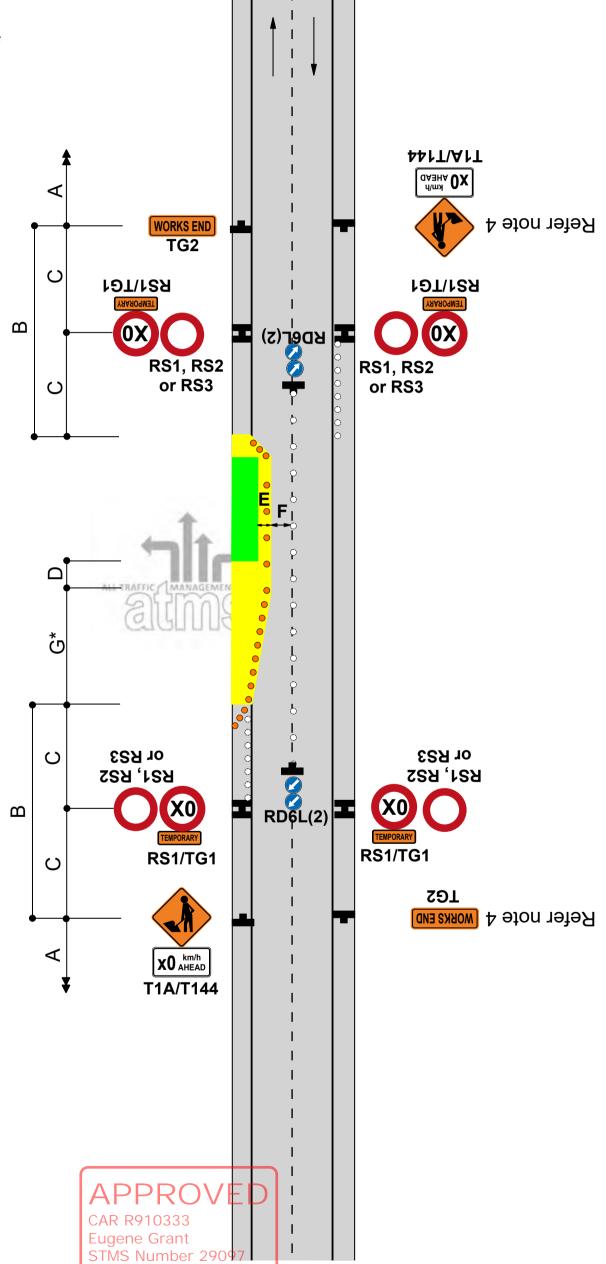
W = Width of shoulder

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



Notes

- 1.*Calculation of taper length for lateral shift of less than 3.5m is: W x G
 - VVX
 - 3.5
 - W = Width of lateral shift
 - G = Taper length in metres from the level 1 layout distance table
- 2.If traffic likely to cross the centreline, place cones on the centreline with RD6L signs at each end
- 3.Use TSLs if required by TSL decision matrix
- 4.If TSLs not required, the T1A and TG2 signs on the right hand side of the road are also not required
- 5.The T144 X0km/h AHEAD sign is optional



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

F2.12 Level 1

Notes

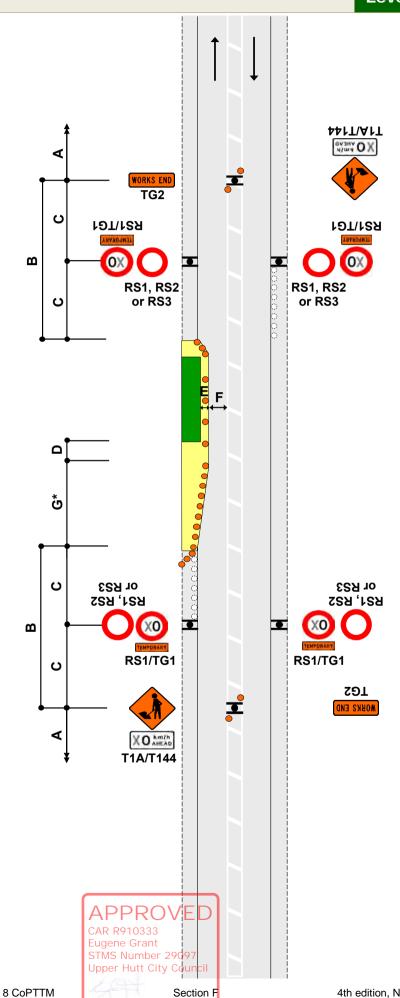
- 1.Use this diagram if signs will not be visible on left-hand side of road, or if it is safer to place signs on median and this will not interfere with turning traffic movements
- 2. Where a median exists which is more than 2m wide, the signs may be positioned on the median. Signs must be placed back-to-back 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:

$W \times G$

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

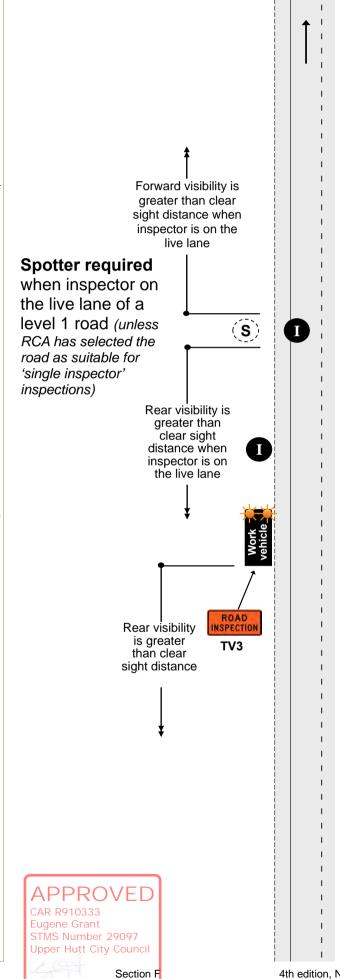


INSPECTION ACTIVITIES AND NON-INVASIVE WORKS On shoulder and on the live lane This TMD may also be applied on level LV roads

F4.10 Level 1

Notes

- Inspectors must move from live lanes to avoid traffic. They must not expect traffic to drive slowly or drive around them
- 2.On level LV and level 1 roads, a person completing an inspection or non-invasive works cannot be on a live lane for more than 5 minutes
- 3.Unless otherwise approved by the RCA, all inspections on the live lane of level 1 roads require a spotter. The RCA may provide a list of roads, times and/or activities suitable for inspection by a single inspector
- 4. There must be CSD to the inspector when on the live lane. If this cannot be achieved, a spotter must be placed in a position where CSD can be attained and verbal instructions be given to the inspector. If this is not possible, a static or mobile operation is required.
- 5.A spotter is not required for inspections and non-invasive works on level LV roads or working off the live lane of a level 1 road
- 6.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
- 7.For inspection activities that are carried out by a TC on level LV and level 1 roads the STMS must be immediately contactable but does not have to be within 30 minutes travel time of the worksite
- 8.An unaccompanied inspector may walk across a level LV or level 1 road
- 9.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
- 10.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)



Mobile operations

INSPECTION ACTIVITIES AND NON-INVASIVE WORKS Inspection Activity - Centre Of Road This TMD may also be applied on level LV roads

ATMS07 Level 1

Notes

- Inspectors must move from live lanes to avoid traffic. They must not expect traffic to drive slowly or drive around them
- 2.On level LV and level 1 roads, a person completing an inspection or non-invasive works cannot be on a live lane for more than 5 minutes
- 3.Unless otherwise approved by the RCA, all inspections on the live lane of level 1 roads require a spotter. The RCA may provide a list of roads, times and/or activities suitable for inspection by a single inspector
- 4. There must be CSD to the inspector when on the live lane. If this cannot be achieved, a spotter must be placed in a position where CSD can be attained and verbal instructions be given to the inspector. If this is not possible, a static or mobile operation is required.
- 5. 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
- 6.For inspection activities that are carried out by a TC on level LV and level 1 roads the STMS must be immediately contactable but does not have to be within 30 minutes travel time of the worksite
- Inspectors MUST use 2 vehicles placed on either side of road shoulder. Inspector & spotter will use footpath to carry cones and cross when way is clear. Cones will be placed (min of 4 each direction) for protection. Spotter must not engage in work activities.

Forward visibility is greater than clear sight distance when inspector is on the live lane Rear visibility is greater than clear sight distance when inspector is on the live lane ROAD INSPECTION Rear visibility is greater TV3 than clear sight distance

APPROVED

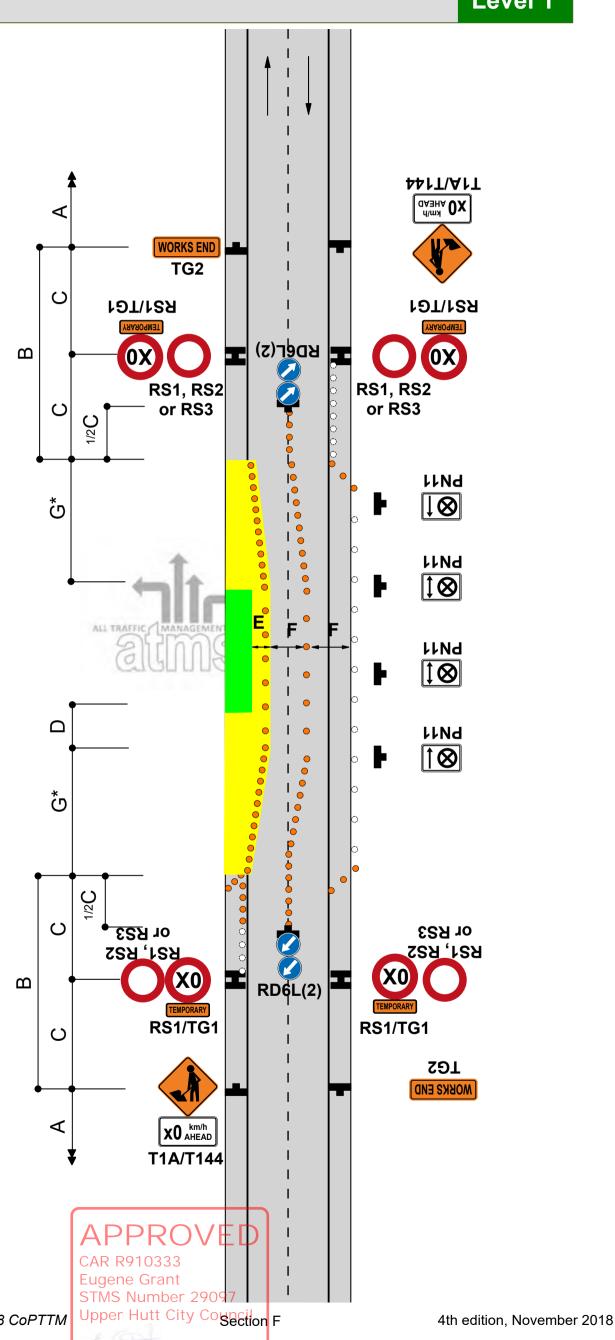
CAR R910333 Eugene Grant STMS Number 29097 Upper Hutt City Council

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

F2.13 Level 1

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



Traffic control devices manual part 8 CoPTTM

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

ATMS02 Level 1

Notes THIS TMD IS NOT TO BE USED FOR ANY UNATTENDED PERIOD

- 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



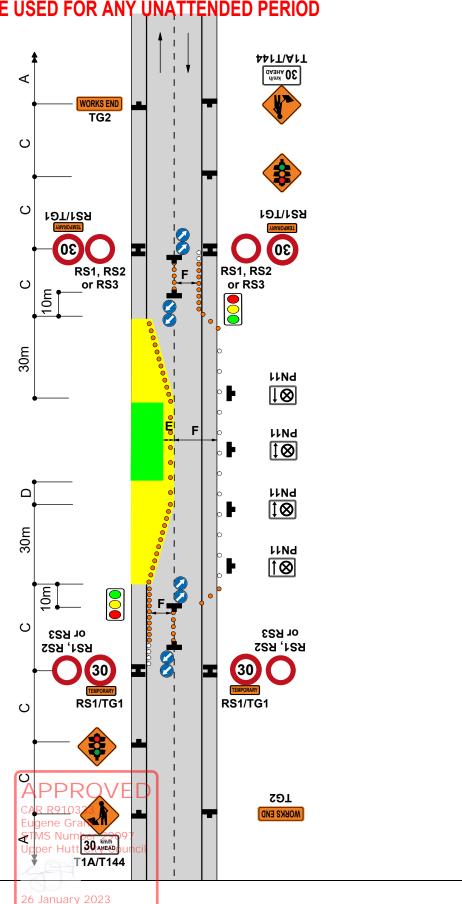


- 4. Minimum 5 cones in cone threshold.
- 5. Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues

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.

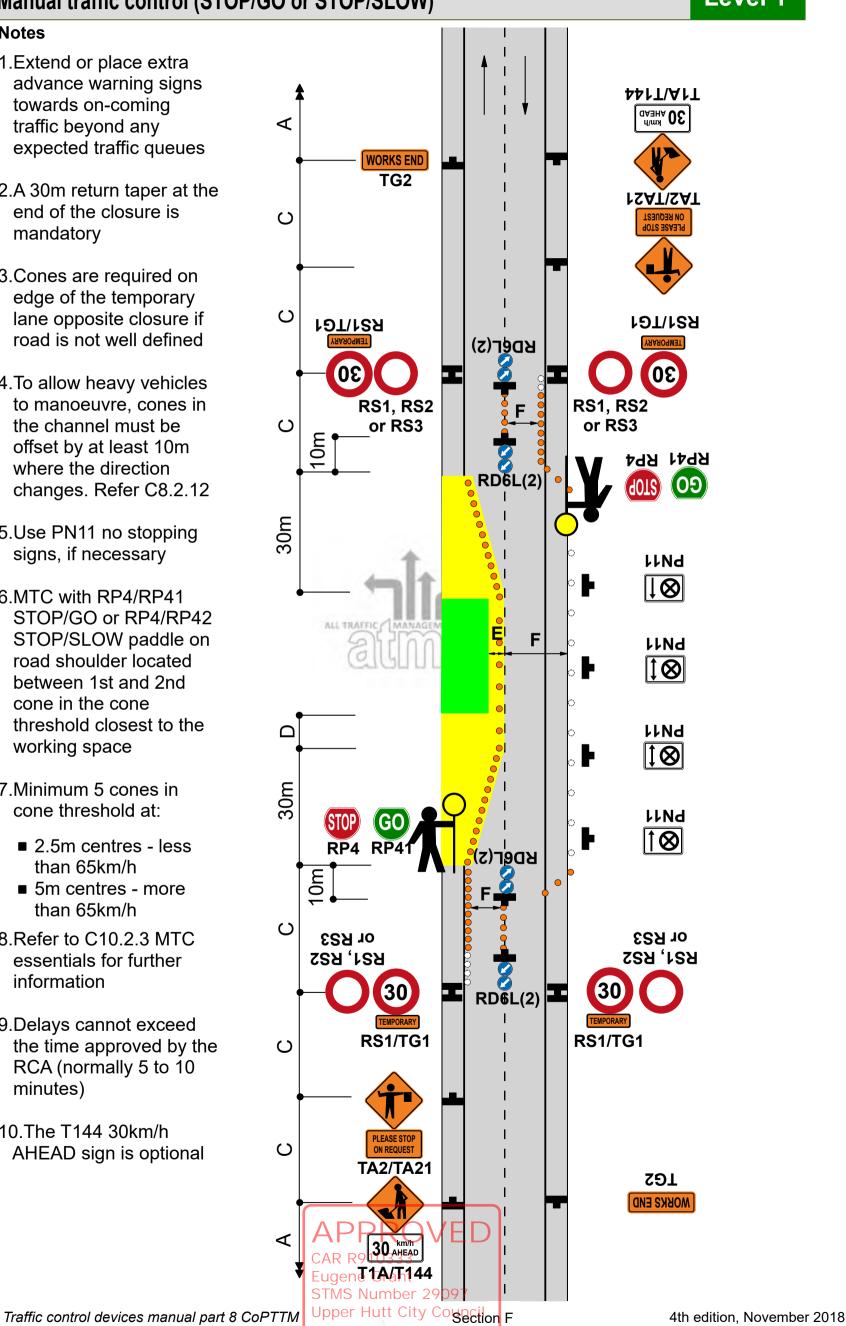


TWO-WAY TWO-LANE ROAD Single-lane alternating flow Manual traffic control (STOP/GO or STOP/SLOW)

Level 1

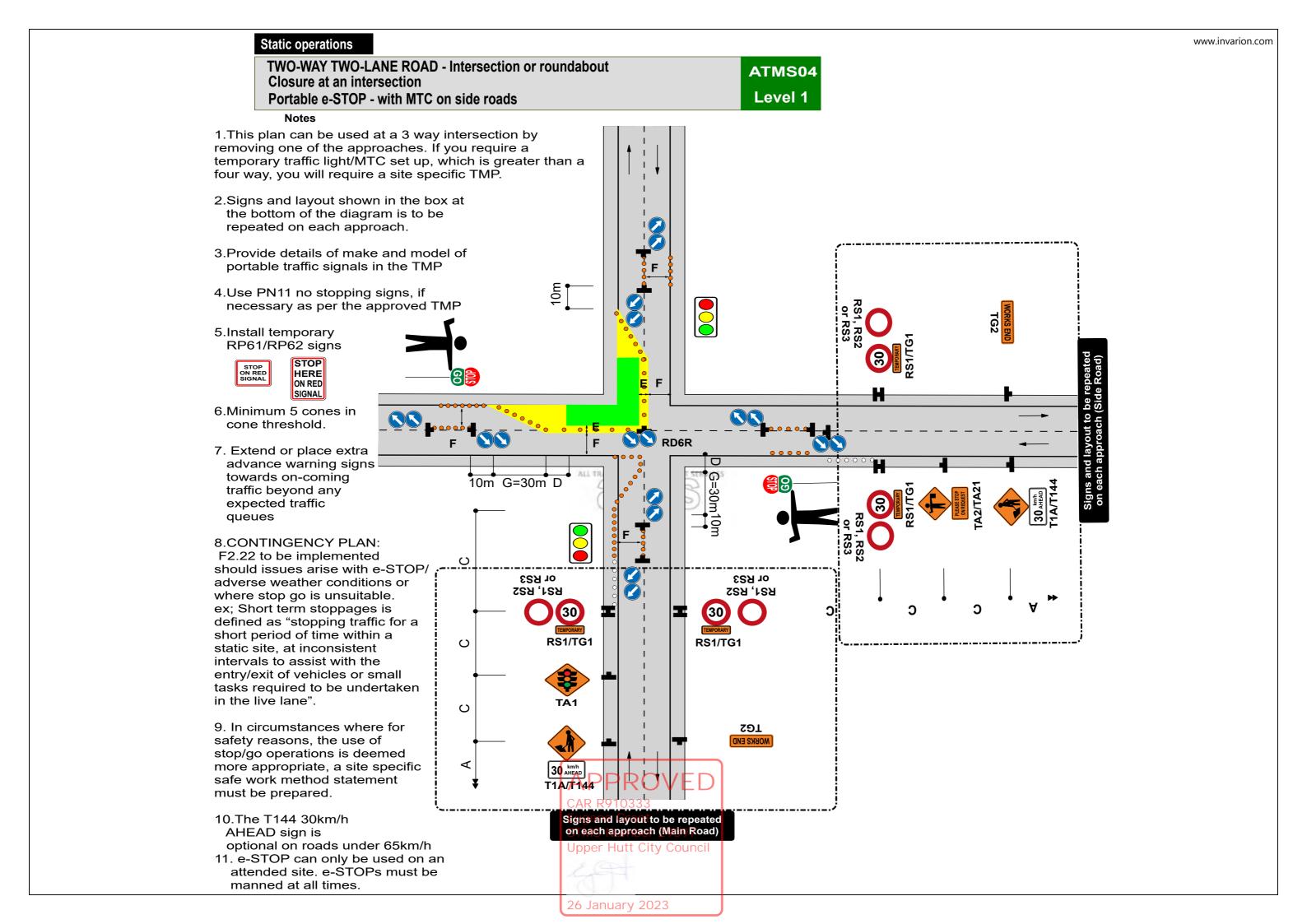
Notes

- 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
- 9. Delays cannot exceed the time approved by the RCA (normally 5 to 10 minutes)
- 10.The T144 30km/h AHEAD sign is optional



26 January 2023

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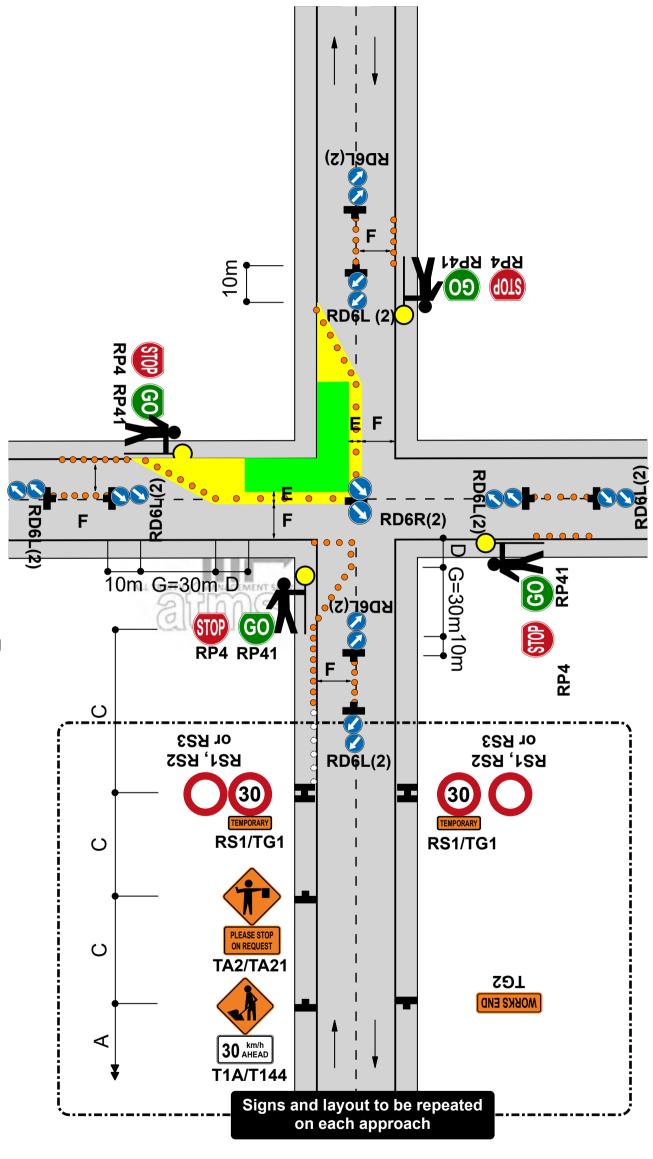


TWO-WAY TWO-LANE ROAD - Intersection or roundabout Closure at corner of an intersection Manual traffic control (Stop/Go or Stop/Slow)

F2.22 Level 1

Notes

- 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.A 30m return taper at the end of the closure is mandatory
- 4.Use PN11 no stopping signs, if necessary
- 5.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
- 6.Minimum 5 cones in cone threshold at:
 - 2.5m centres less than 65km/h
 - 5m centres more than 65km/h
- 7.Refer to C10.2.3 MTC essentials for further information
- 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



tional

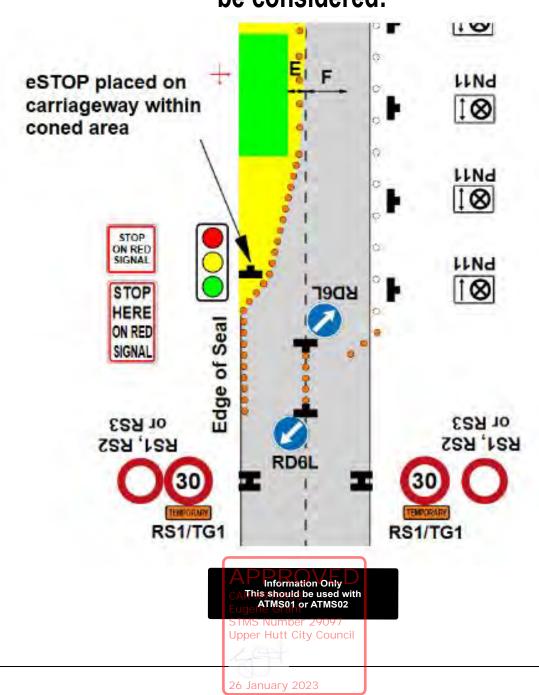
CAR R910333
Eugene Grant
STMS Number 29097
Upper Hutt City Cosection F

26 January 2023

4th edition, November 2018

Traffic control devices manual part 8 CoPTTM

eSTOPs at locations with limited road width or shoulder
The same risk assessment process should be undertaken
for placement of eSTOPs on these types of roads as if a
manual traffic controller was to be placed there.
Ideally approval should be sought for a full road closure.
Where this is not possible, placement of the eSTOP on the
live lane within a coned area as per the example below should
be considered:

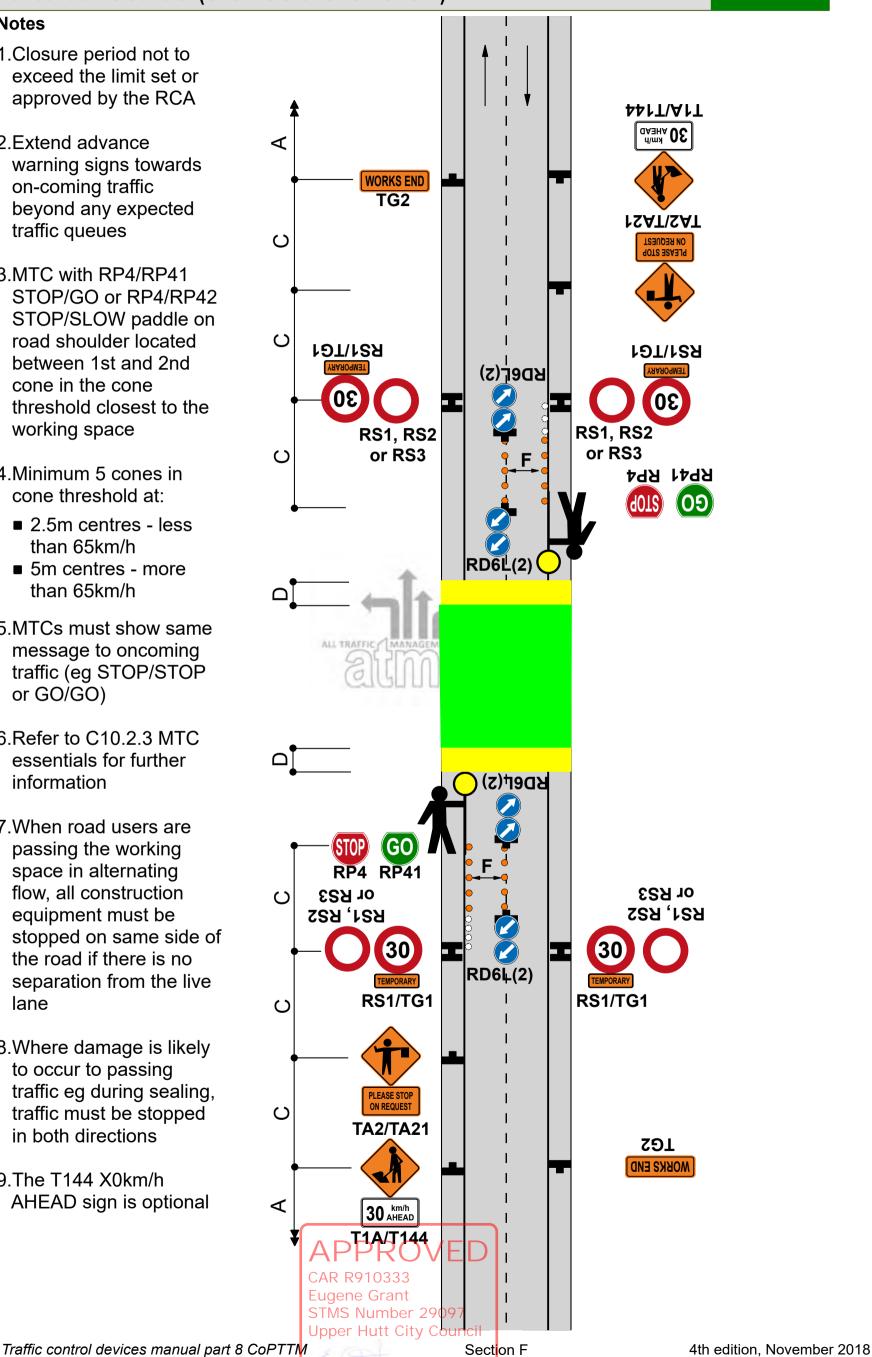


TWO-WAY TWO-LANE ROAD All traffic stopped temporarily Manual traffic control (STOP/GO or STOP/SLOW)

F2.15 Level 1

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



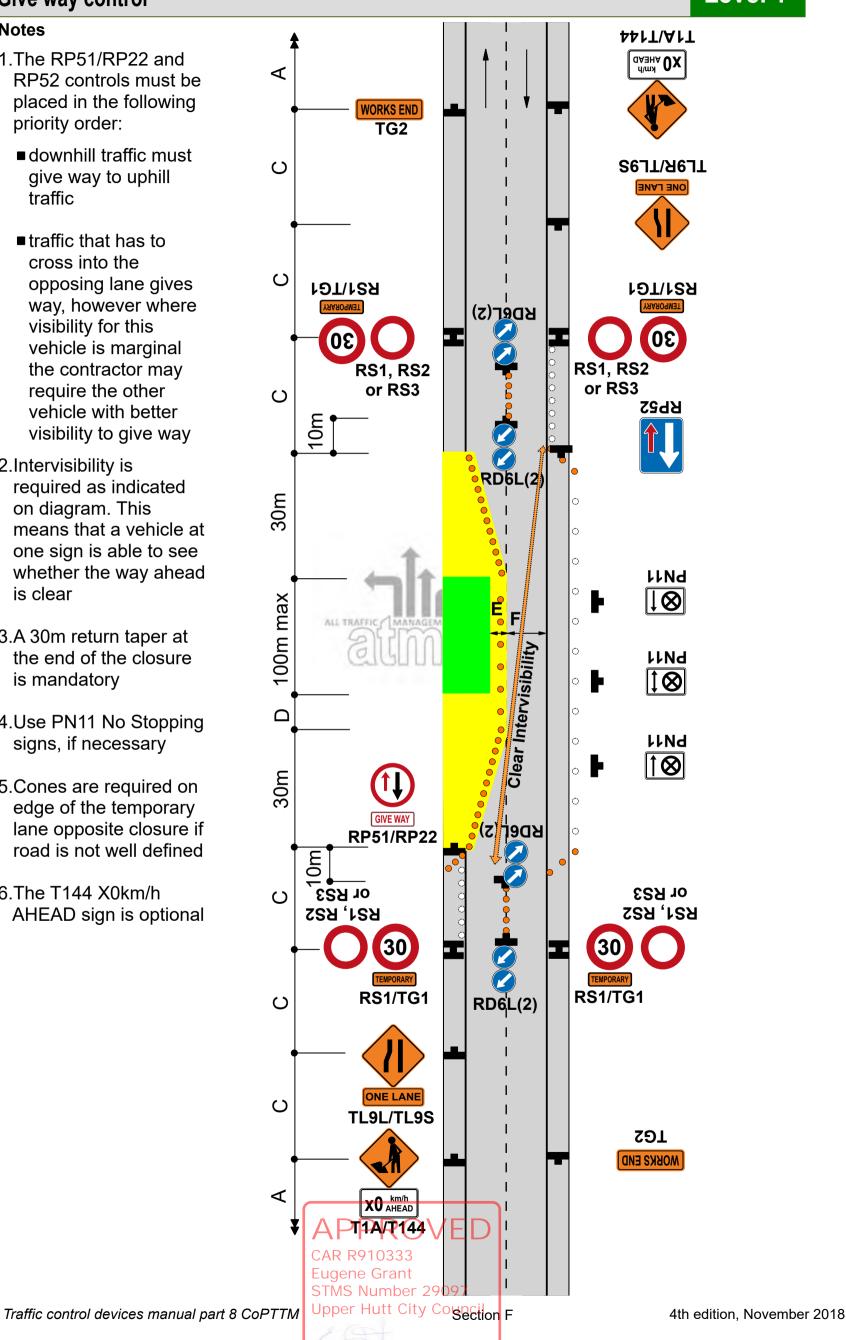
TMC APPROVAL REQUIRED FOR BOTH ATTENDED AND UNATTENDED SITES

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

F2.16 Level 1

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



TMC APPROVAL REQUIRED FOR SENSORED TRAFFIC SIGNALS TO BE USED FOR ANY **UNATTENDED PERIOD**

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

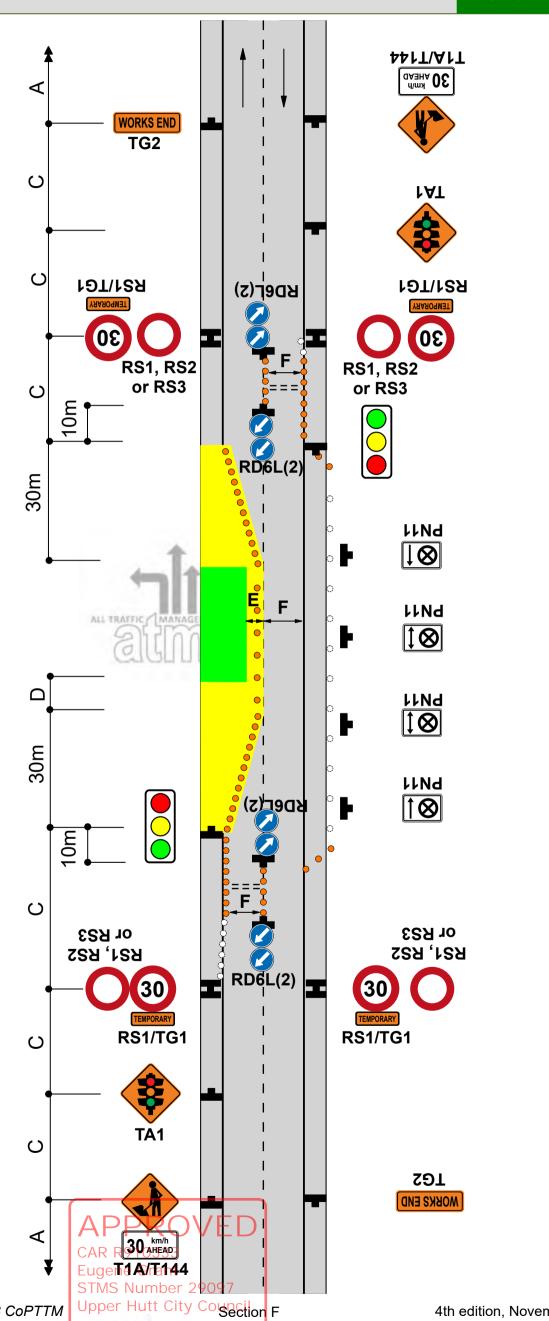
F2.17 Level 1

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
- 8.Minimum 5 cones in cone threshold at:
 - 2.5m centres less than 65km/h
 - 5m centres more than 65km/h
- 9.The T144 30km/h AHEAD sign is optional



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

F2.18 Level 1

Notes

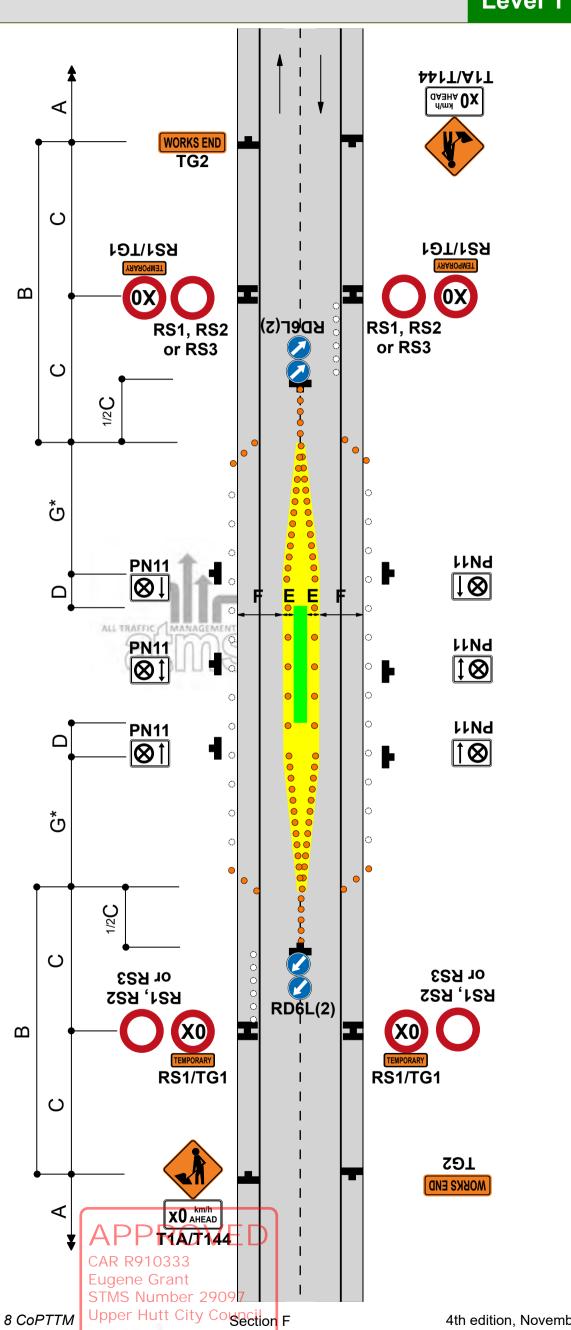
- 1.Cones are required on edge of the temporary lane opposite closure if road is not well defined
- 2.*Calculation of taper length for lateral shift of less than 3.5m is: $W \times G$

3.5

W = Width of lateral shift

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

- 3.Use PN11 no stopping signs, if necessary
- 4.Use TSLs if required by TSL decision matrix
- 5.The T144 X0km/h AHEAD sign is optional

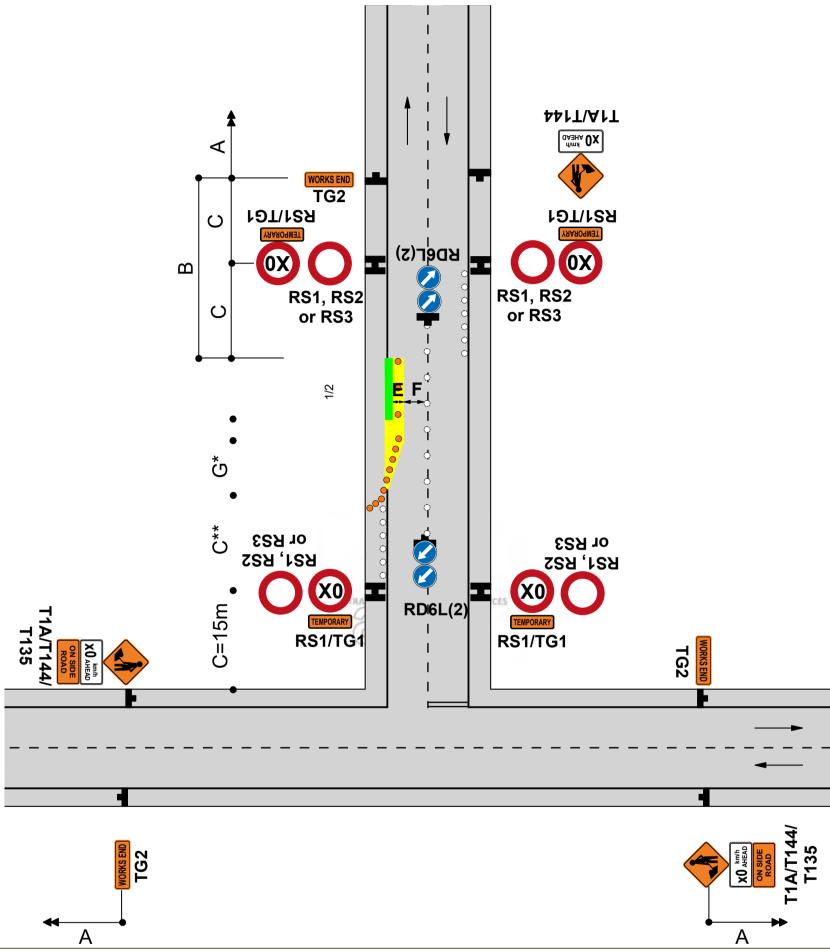


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TWO-WAY TWO-LANE ROAD - Intersection or roundabout Road works on side road after intersection - TSL on side road Traffic not crossing road centre

F2.19 Level 1



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 x 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

C** **Speed** Intersection TSL to Total (PSL) to TSL taper <50km/h 30m 15m 15m CAR R910333 60km/h 15m 25m 40m **Eugene Grant** >70km/h 15m 40m 55m STMS Number 29097

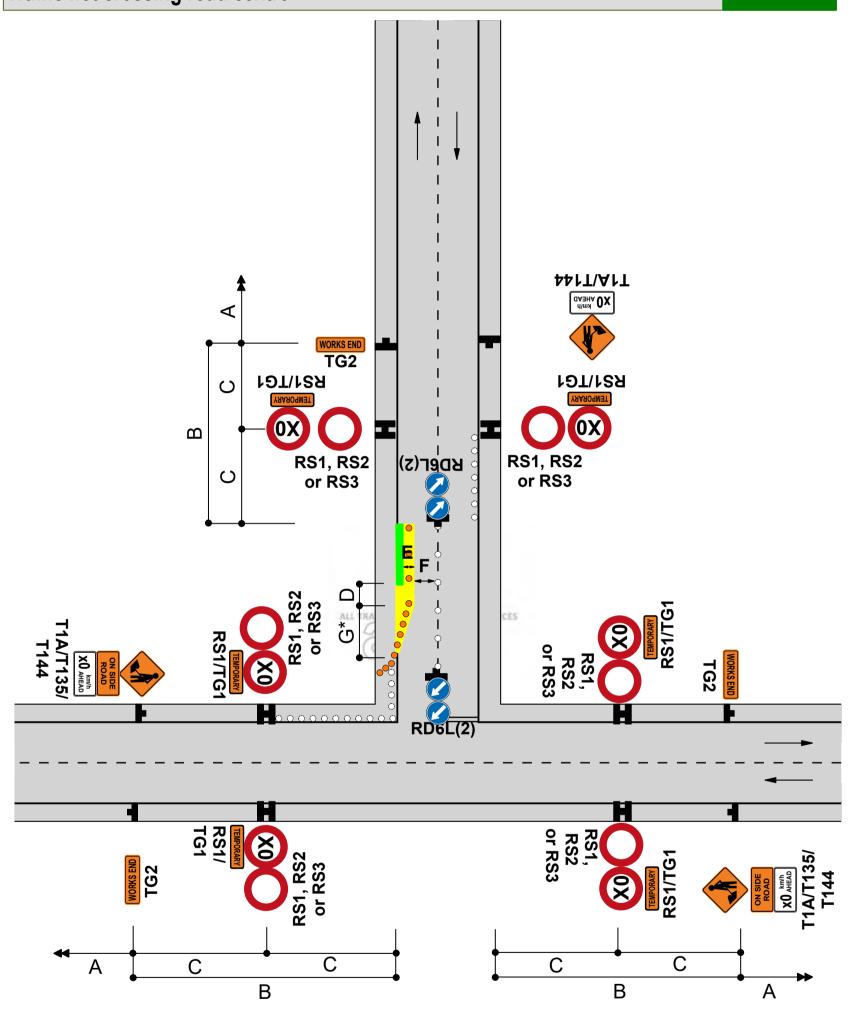
Traffic control devices manual part 8 CoPTTM

Upper Hutt City Councilion F

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TWO-WAY TWO-LANE ROAD - Intersection or roundabout Road works on side road after intersection - TSL on main road Traffic not crossing road centre

F2.20 Level 1



Notes

- 1.*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
- 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

APPROVED

CAR R910333 Eugene Grant

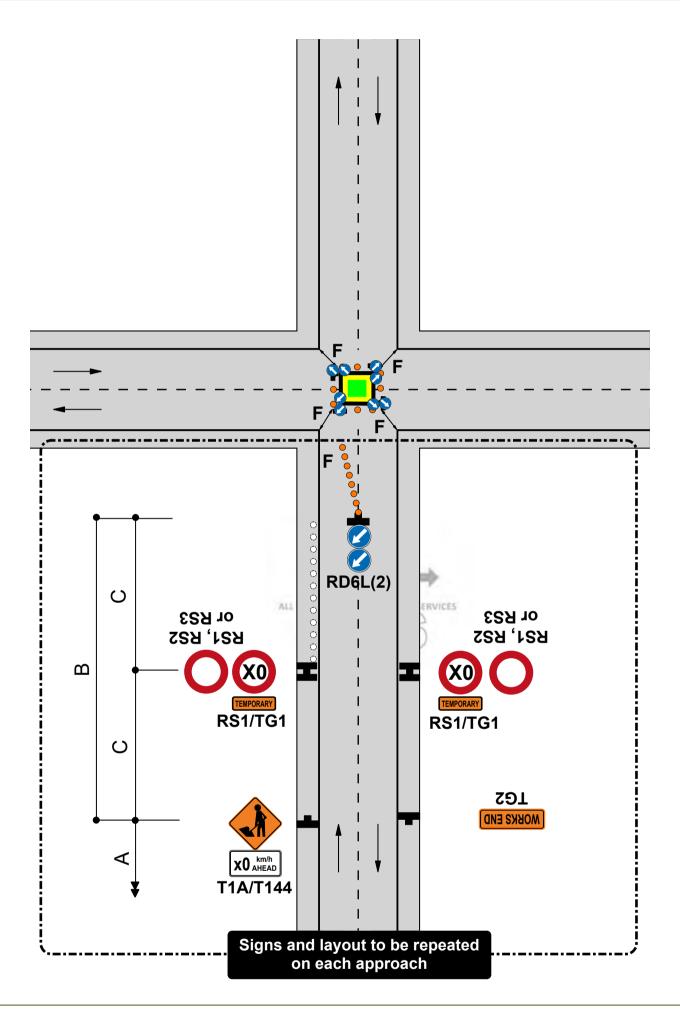
Upper Hutt City Cousection F

Traffic control devices manual part 8 CoPTTM

4th edition, November 2018

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

F2.21 Level 1



Notes

- 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

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STMS Number 29097

Upper Hutt City Cosection F

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Traffic control devices manual part 8 CoPTTM

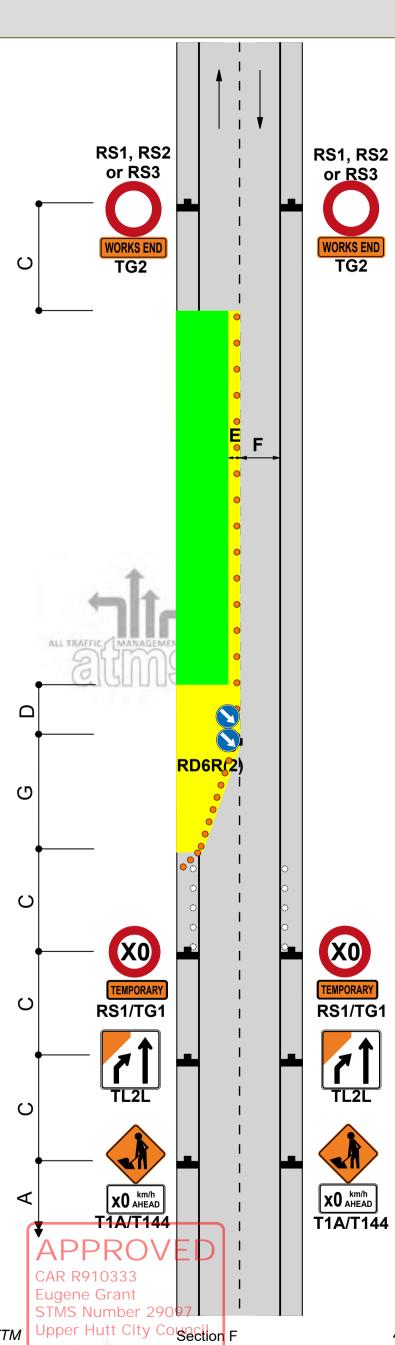
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ONE-WAY TWO-LANE DIVIDED OR TWO-LANE ROAD Left-lane closure

F2.30 Level 1

Notes

- 1.Use TSLs if required by TSL decision matrix
- 2.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
- 3.The T144 X0km/h AHEAD sign is optional



Traffic control devices manual part 8 CoPTTM

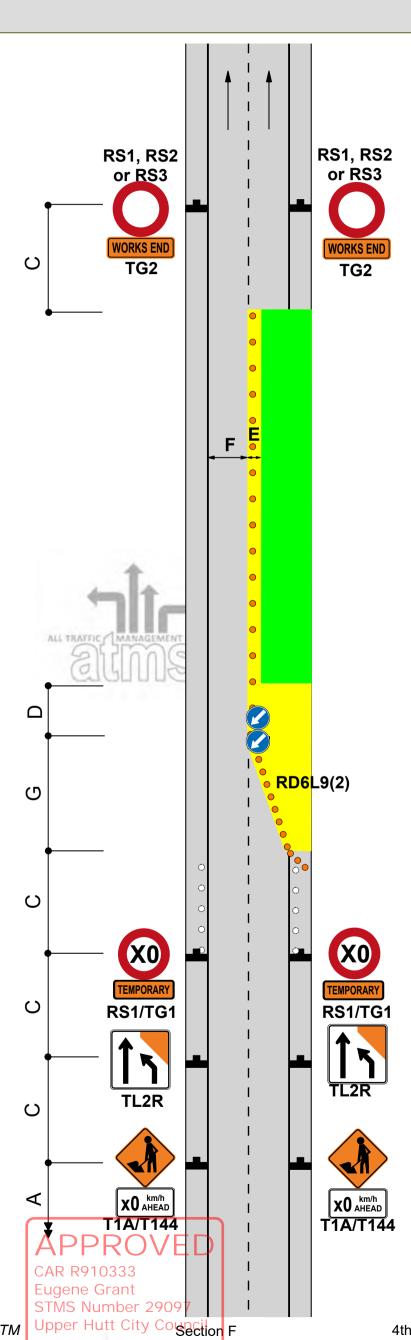
4th edition, November 2018

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

F2.31 Level 1

Notes

- 1.Use TSLs if required by TSL decision matrix
- 2.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
- 3.The T144 X0km/h AHEAD sign is optional



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TMC APPROVAL REQUIRED FOR BOTRH ATTENDED AND UNATTENDED SITES

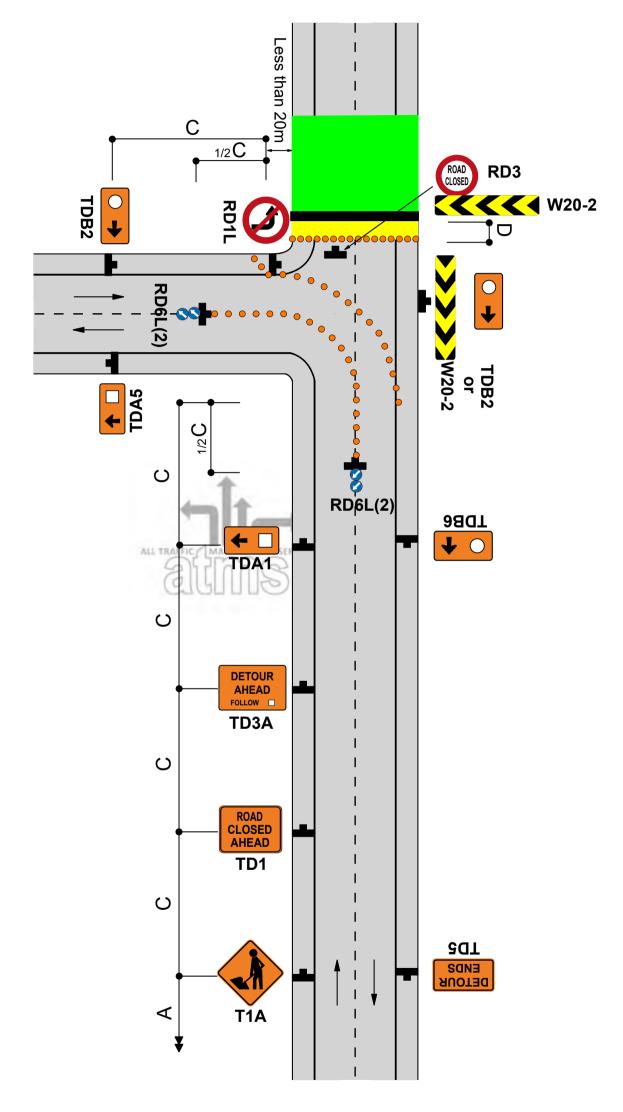
Static operations

TWO-WAY TWO-LANE ROAD - Road closures and detours Road closure - detour route Example

F2.24 Level 1

Notes

- 1.Block access to road with barricade
- 2.If a longer term site, use chevron sight board to direct traffic



APPROVED

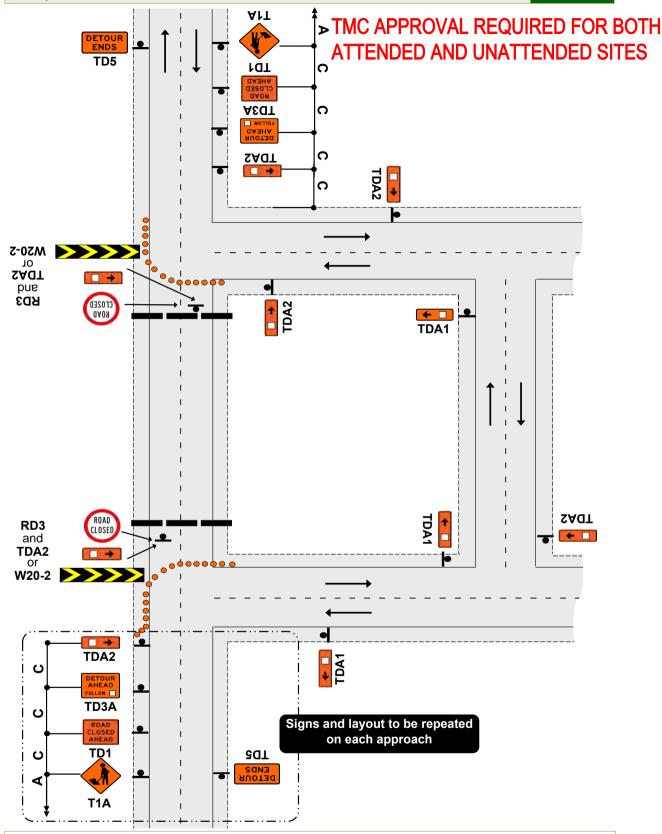
CAR R910333
Eugene Grant
STMS Number 29097
Upper Hutt City Councilon F

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TWO-WAY TWO-LANE ROAD - Road closures and detours Typical detour route signing **Example**

F2.25 Level 1



1. Signpost all intersections to return diverted traffic back to normal/intended route:

- Use appropriate sign to indicate detour ahead (eg TD3A)
 Use appropriate route signs before each intersection and on long straights (eg TDA1)
- Use TD5 signs to advise end of detour
- 2.If detour to operate for more than 48 hours CAR R910333
 - Use chevron sight board to direct traffic Add destination signage as appropriate

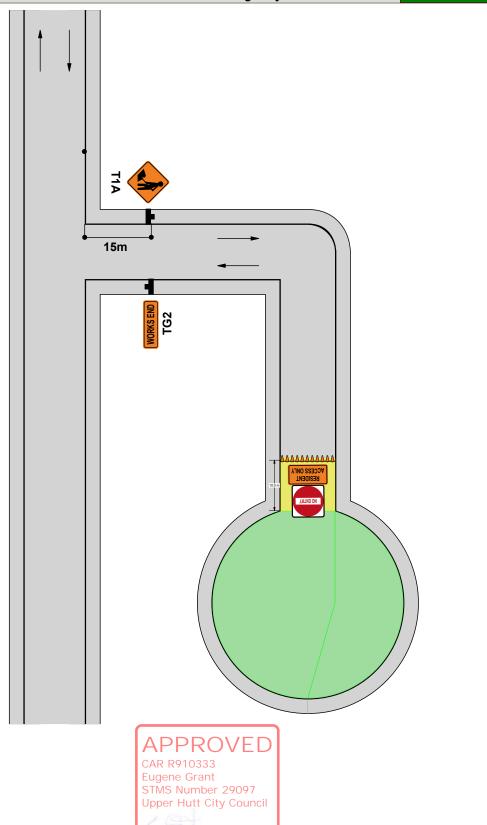
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APPROVED

TWO-WAY TWO-LANE ROAD
Cul De Sac - Closure

Access to maintained for Residents/Couriers/Emergency Services

ATMS08 Level 1



TWO-WAY TWO-LANE ROAD

Other hazard

Flooding, washout, slip, slippery surface

F2.26 Level 1

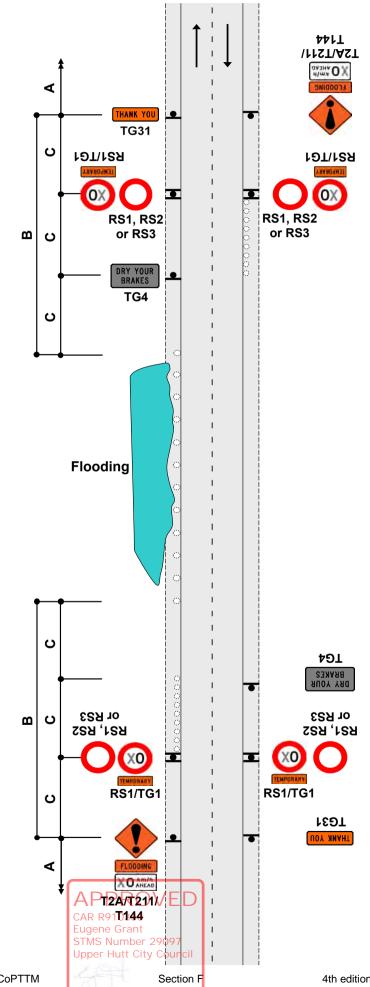
Notes

- 1. This diagram is for initial response only.

 Appropriate long term TTM must be installed as soon as practical
- 2.Use one of the following signs and/or supplementary plates:



- 3.If necessary, erect TG4 DRY YOUR BRAKES sign
- 4.Delineate hazard if hazard extends onto lane
- 5.Use TSLs if required by TSL decision matrix
- 6.The T144 X0km/h AHEAD sign is optional



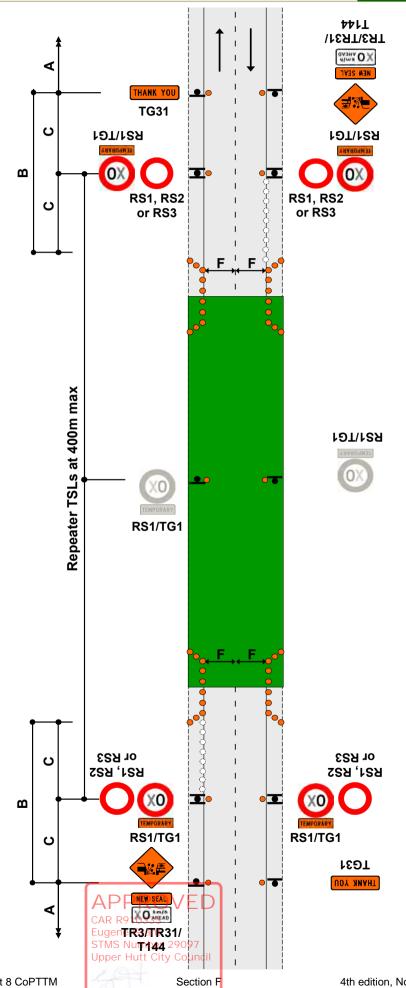
TWO-WAY TWO-LANE ROAD

Unattended worksites

New seal - unattended and/or unswept worksite

F2.27 Level 1

- 1.Use TSLs if required by TSL decision matrix
- 2. Worksites need positive traffic management to ensure all road users travel at the TSL
- 3.Use cones to form a threshold treatment at the start of the new seal. Minimum of 10 cones at 5m centres
- 4.Cones on the trafficked side of signs for sites to be left unattended overnight
- 5.TSLs to be repeated at not more than 400m intervals
- 6.The T144 X0km/h AHEAD sign is optional



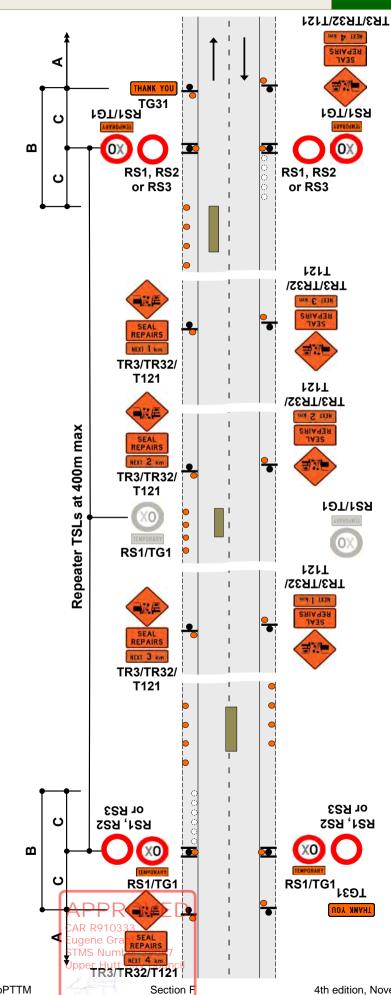
TWO-WAY TWO-LANE ROAD Unattended worksites Surface hazard

F2.28 Level 1

- 1.This layout must not be used on an alignment with horizontal curves (corners) or when repairs are carried out on or near horizontal curves. See TMD F2.29
- 2.On long worksites, use 'Next X km' plates, repeat temporary speed limit signs at not more than 400m intervals
- 3. Signs for some alternative situations:



- 4.Cones to be placed on left of carriageway for full length of hazard at 10m centres or at least 3 cones, whichever is the greater
- 5.Cones on the trafficked side of signs for sites to be left unattended overnight
- 6. Worksites need positive traffic management to ensure all road users travel at the TSL
- 7.Use TSLs if required by TSL decision matrix
- 8.The T144 X0km/h AHEAD sign is optional

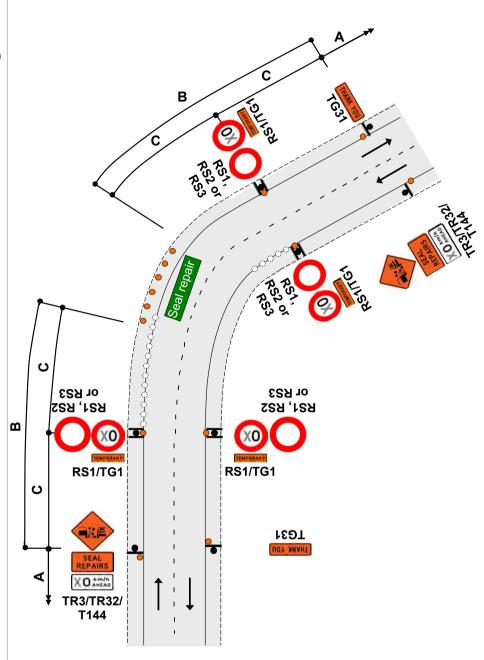


TWO-WAY TWO-LANE ROAD Unattended worksites Seal repairs on a curve

F2.29 Level 1

Notes

- 1.Cones on edge of seal - minimum 3 cones, maximum spacing 10m, next to each repair area
- 2.Cover any curve advisory speed sign that has a higher speed than the TSL
- 3.Use TSLs if required by TSL decision matrix
- 4.The T144 X0km/h AHEAD sign is optional

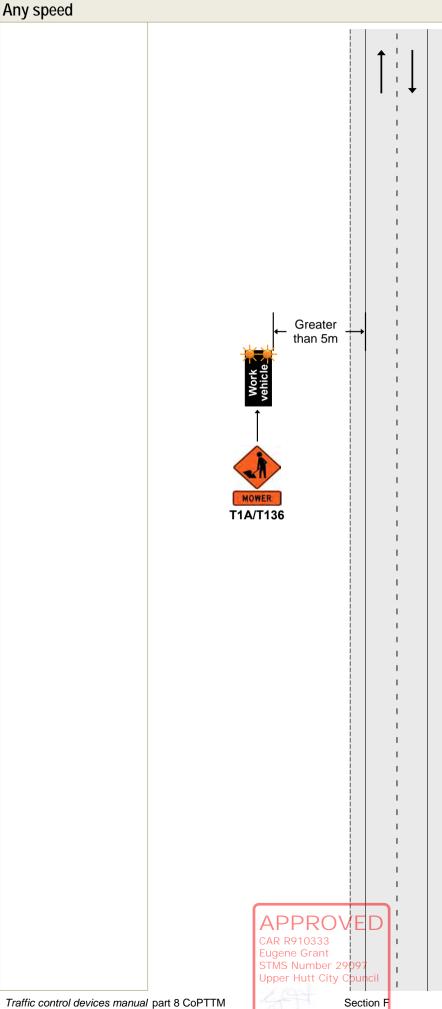


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TWO-WAY TWO-LANE ROAD Work vehicle is more than five (5) metres from the edgeline

F4.1 Level 1



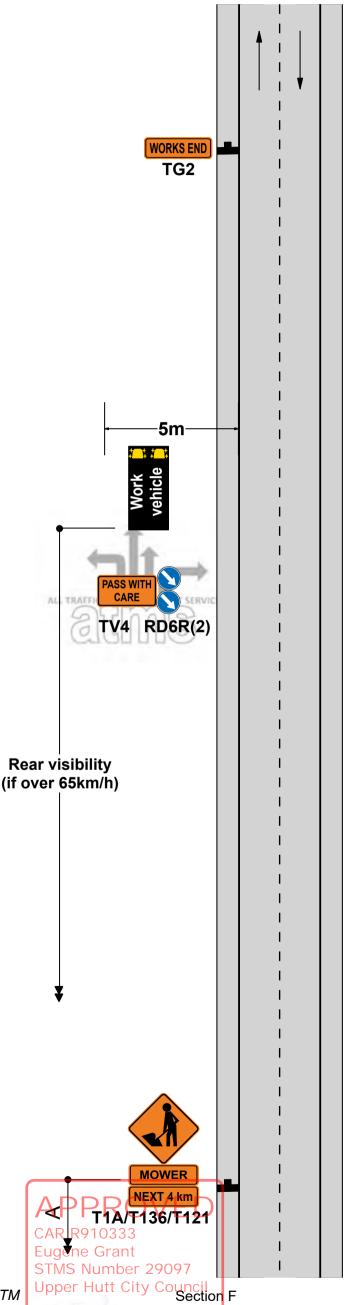
Mobile operations

TWO-WAY TWO-LANE ROAD Work vehicle is within five (5) metres of the edgeline CSD to work vehicle - not required under 65km/h, required over 65km/h

F4.2 Level 1

Notes

- 1.If permanent speed is under 65km/h, rear visibility to the work vehicle is not required
- 2.If permanent speed is over 65km/h, rear visibility to the work vehicle is required
- 3.A tail pilot vehicle equipped with T1A advance warning sign, appropriate supplementary plate and RD6R may replace the static signs if the permanent speed is under 65km/h (see TMD F4.3)



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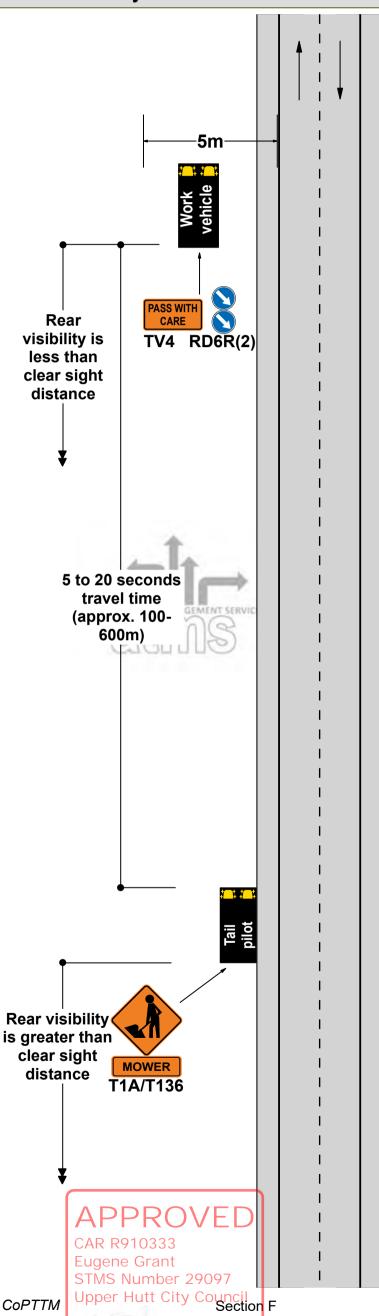
Mobile operations

TWO-WAY TWO-LANE ROAD Work vehicle is within five (5) metres of the edgeline Speed limit over 65km/h - the rear visibility is less than CSD

F4.3 Level 1

Notes

1.This TMD can replace TMD F4.2 when permanent speed is under 65km/h. In these situations, static signs are not required



Traffic control devices manual part 8 CoPTTM

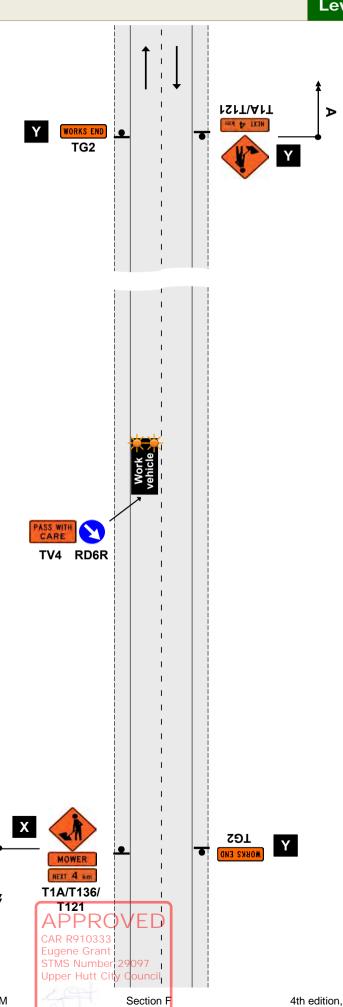
4th edition, November 2018

26 January 2023

TWO-WAY TWO-LANE ROAD Work vehicle is in a lane Permanent speed under 65km/h

F4.4 Level 1

- 1.Advance warning sign X may be replaced by tail pilot equipped with T1A advance warning sign and appropriate supplementary plate
- 2.In this case, signs marked with **Y** do not need to be erected
- 3.If using static advance warning signs and the operation is on the lane, then static advance warning signs must also be placed on any intersecting roads

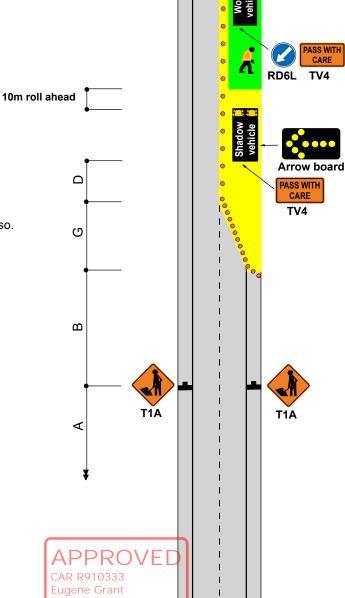


Mobile operations

ONE-WAY TWO-LANE DIVIDED OR TWO-LANE ROAD Part or all of a lane occupied Semi-static closure - work for up to 1 hour Notes

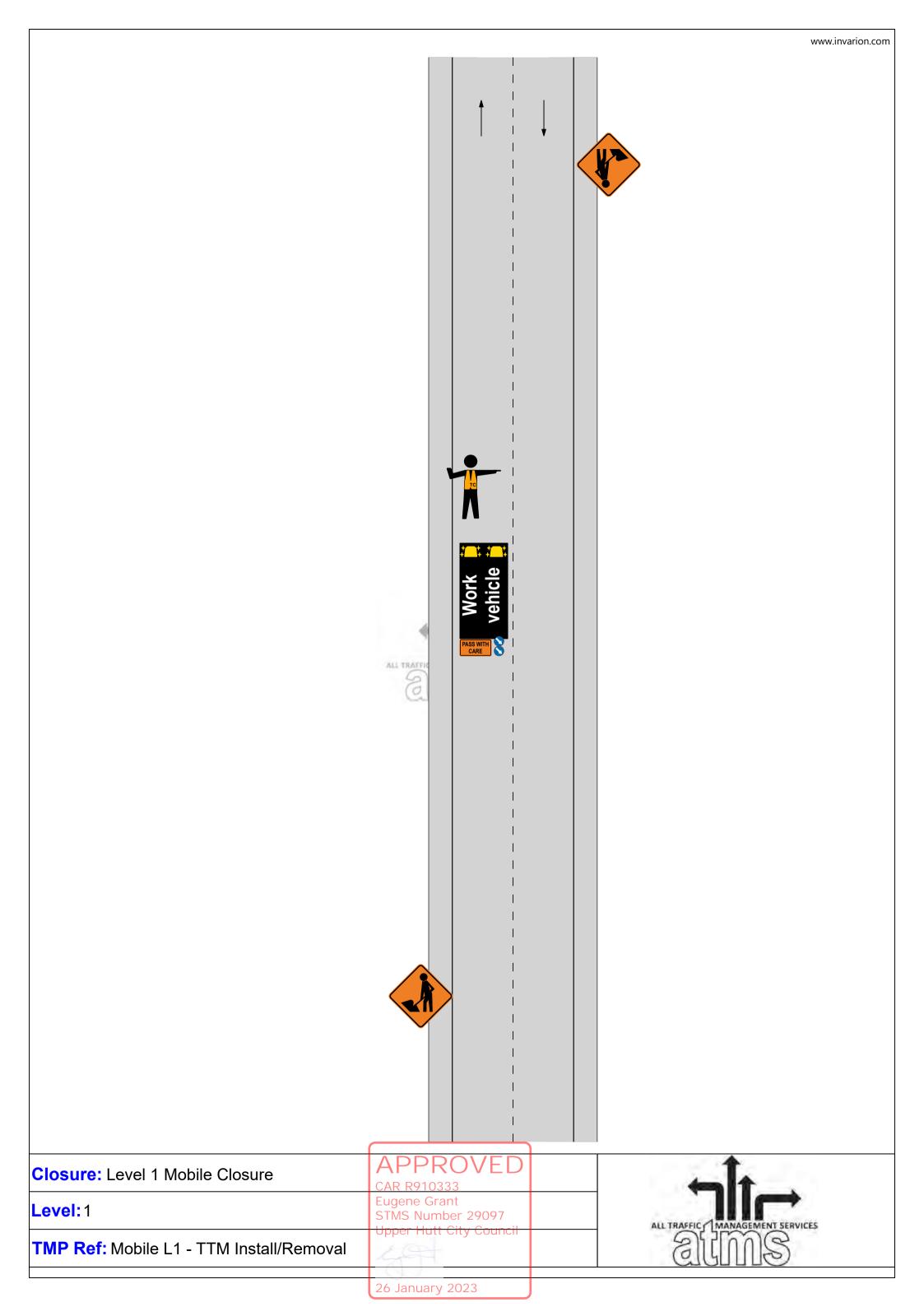
ATMS06 Level 1

- 1.Only use this TMD when activity can be completed within 1 hour (excluding set up and removal of worksite)
- 2.The T1A advance warning signs may be replaced by a tail pilot vehicle with a T1A sign, appropriate supplementary plate and a RD6R/L
- 3.If shadow vehicle is fitted with a TMA, the longitudinal safety zone (D) is not required
- 4.If using static advance warning signs and the operation is on the lane, then static advance warning signs must also be placed on any intersecting roads.
- 5. This site can be used on the opposite (left) lane also.



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Static operations

CYCLE LANE Traffic not crossing road centre Diverted cycle lane

F2.8 Level 1

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:

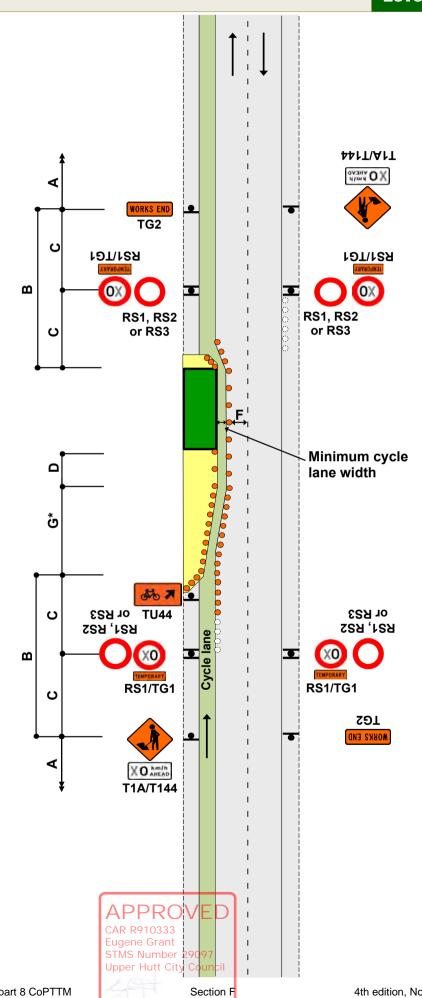
W x G

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



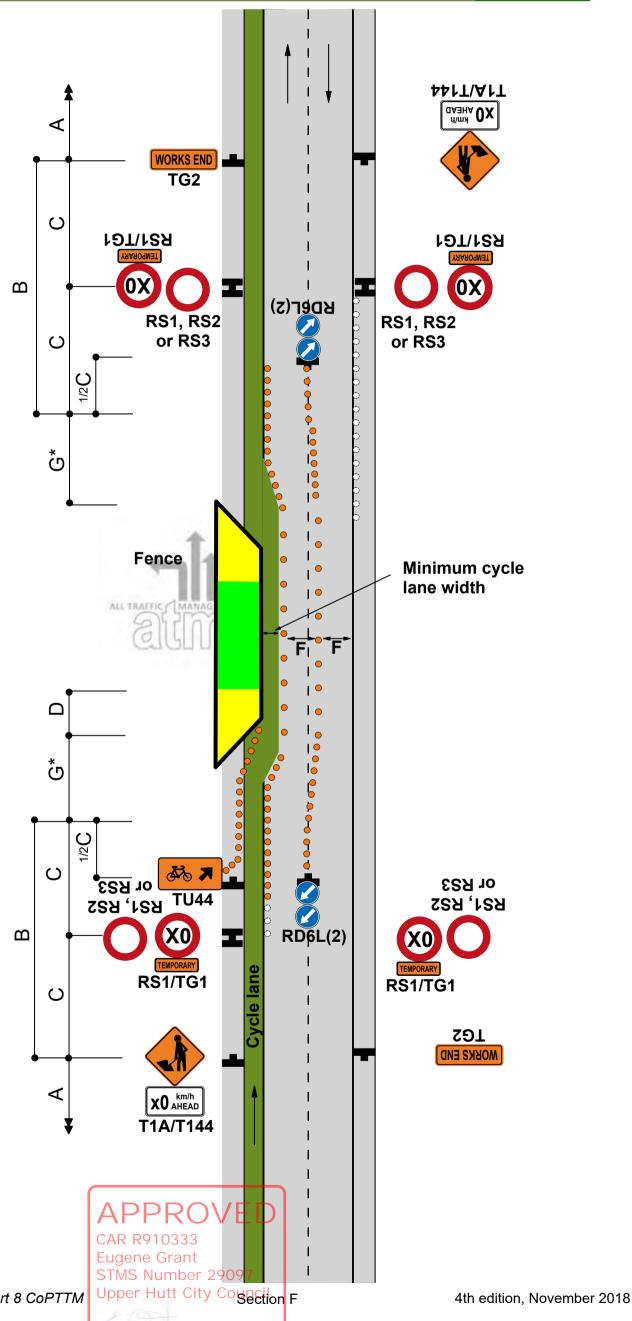
Static operations

CYCLE LANE Traffic crossing road centre Diverted cycle lane - coned lane control

F2.9 Level 1

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



Traffic control devices manual part 8 CoPTTM

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Static operations

CYCLE LANE Cycle lane closed Poratable e-STOP

ATMS03 Level 1

Notes

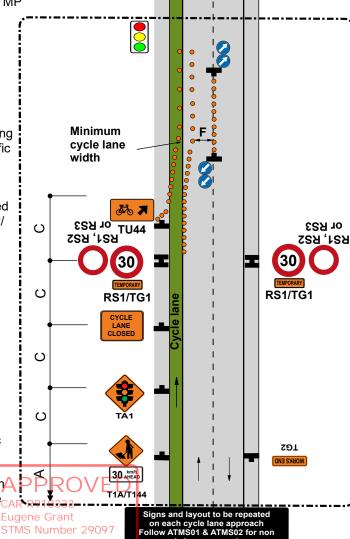
- 1.Merge of cycle lane with live lane must be delineated with cones at 1.0m centres for at least 10m
- 2.The T144 30km/h AHEAD sign is optional on roads under 65km/h
- 3. Signs and layout shown in the box at the bottom of the diagram is to be repeated on each approach that requires cycle lane signage. ATMS01 or ATMS02 to be used on all non cycle lane approaches.
- 3. Provide details of make and model of portable traffic signals in the TMP
- 4.Use PN11 no stopping signs, if necessary as per the approved TMP
- 5.Install temporary RP61/RP62 signs.
- 7. Extend or place extra advance warning signs towards on-coming traffic beyond any expected traffic queues.

8.CONTINGENCY PLAN:

F2.14 or F2.22 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".

9. 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.

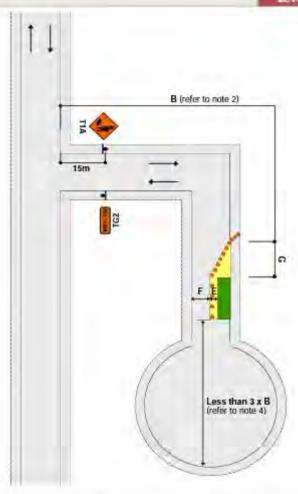
10.e-STOP can only be used on an△ attended site. e-STOPs must be manned at all times.



cycle lane approaches

26 January 2023

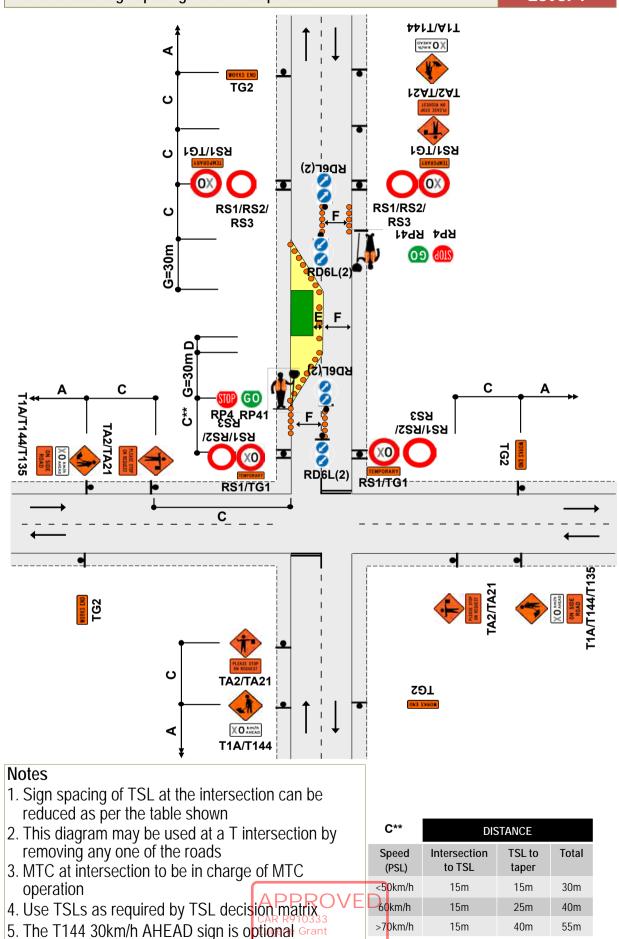
STMS Number 29097 Upper Hutt City Counc



- 1. T1A sign to be placed at least 15m from the intersection
- 2. Where less than B, T1A/T135 and TG2 signs required on main road
- 3. Working space to be less than 100m.
- Signage is not required past the worksite where there is less than 3 x B from the end of the working space to the end of the Wood ROVED

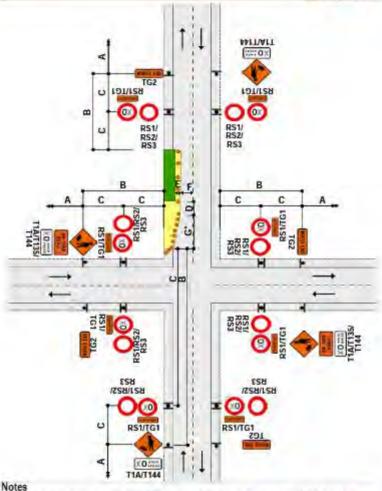
TWO-WAY TWO-LANE ROAD - Intersection or roundabout Major obstruction close to intersection Allows shorter sign spacings and MTC operation

J2.19aLevel 1



TWO-WAY TWO-LANE ROAD - Intersection or roundabout After intersection - Traffic not crossing road centre

J2.20a



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

Taper length may be reduced by adding a RDSR sign
 Calculation of taper length for lateral shift of less than 3.5m is:

WxG 3.5

W = Width of Shoulder G = Tager length of metres from the level 1 layout distance table

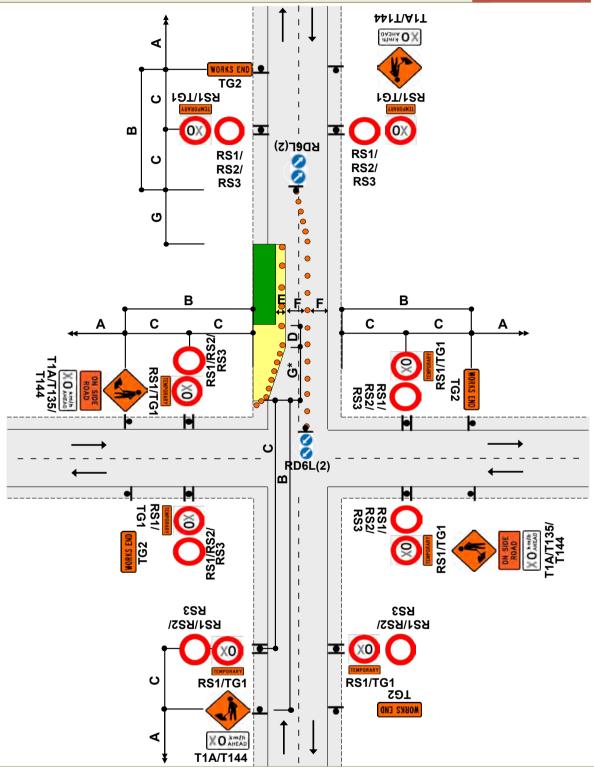
4. Use TSLs if required by TSL decision-matrix 9097

The T144 X0km/h AHEAD sign is potional.

RD6R

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

J2.20bLevel 1



Notes

- 1. This diagram may be used at a T intersection by removing any one of the roads
- 2. Taper length may be reduced by adding a RD6R sign
- 3. *Calculation of taper length for lateral shift of less than 3.5m is: W x G

3.5

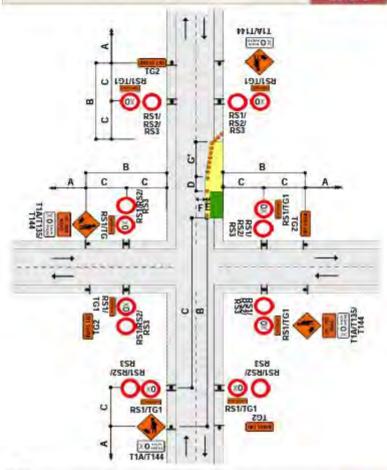


- 4. Use TSLs if required by TSL decision matrix₀₃₃₃
- 5. The T144 X0km/h AHEAD sign is optional of the Grant

RD6R

TWO-WAY TWO-LANE ROAD - Intersection or roundabout Before intersection - Traffic not crossing road centre

J2.20c



Notes

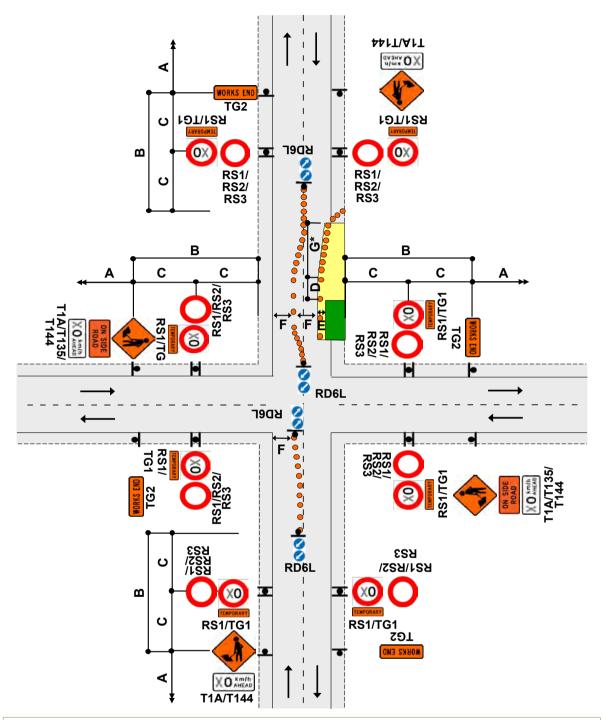
- 1. This diagram may be used at a Tintersection by removing any one of the roads
- 2. Taper length may be reduced by adding a RD6R sign
- 3. *Calculation of taper length for lateral shift of less than 3.5m is:

WxG 35

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

4. Use TSLs if required by TSL decision patro VED 5. The T144 X0km/h AHEAD sign is cotonial 3333

Eugene Grant STMS Number 29097 Upper Hutt City Counci RD6R



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:

WxG

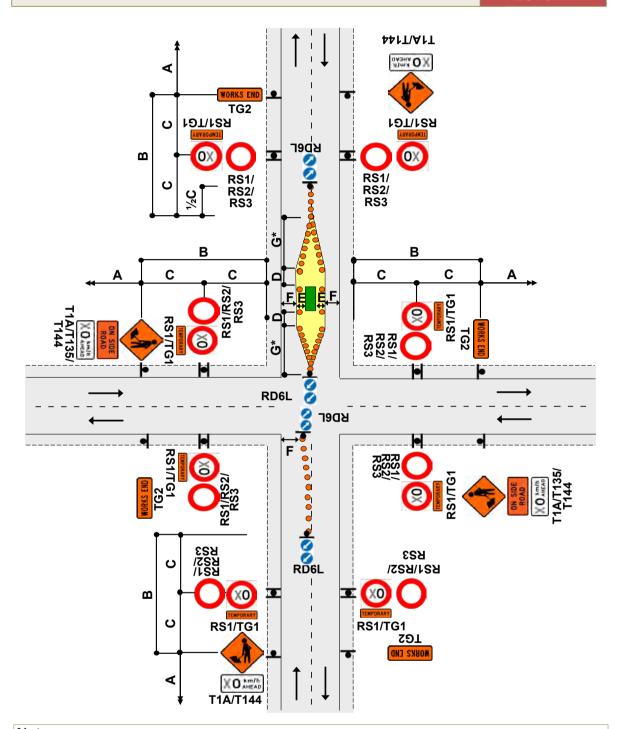
3.5

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 crant

STMS Number 29097

Section J



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

CAR R910333

Section J