rban Roads hallenges & Ideas

Auckland Transport

An Auckland Council Organisation

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Urban Roads - Challenges & Ideas

- Challenges faced on busy urban roads
 - Urban Two Lane Two Way roads
 - > Static Operations
 - > Site Installation Mobile Operations
- Cyclist Management
- Detours for Road Closures
- Temporary Bus Stop
- Inspections
- Acknowledgements

challenges faced on busy urban roads

- So what are Busy Urban Roads?
 - > Busy
 - Roads carrying greater than 10,000 vpd (Level 2)
 - Urban
 - Roads with permanent speed limits of less than 65 Km/h

challenges faced on busy urban roads

- Roads (Specifically Level 2)
 - >Two different environments:
 - Multi Lane roads with less interruptions to traffic flow
 - Two lane two way roads with multiple & expected interruptions

challenges faced on busy urban roads



Static Operations

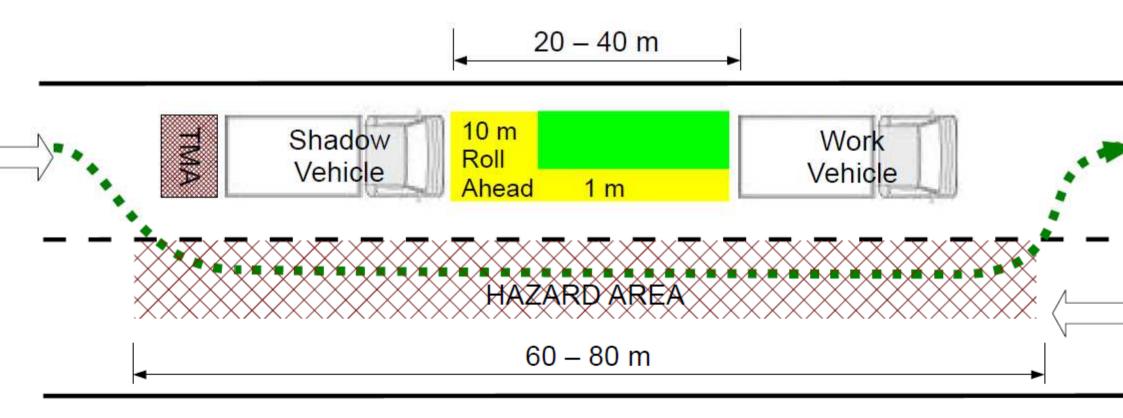
- What have we done:
 - ➤ Level 2L (Level 2 road with Level 1 "State Highway" dimensions for signs and delineation)
 - All other requirements for Level 2 must apply
 - Level 2 signs & equipment
 - Level 2/3P STMS requirements as per CoPTTM

Static Operations

		2 L / Proposed		Level 2	
Permanent Speed Limit		≤ 50 km/h	60 km/h	≤ 50 km/h	60 km/h
A	Sign Visibility Distance	50	60	60/50	70/60+
В	Warning Distance	50	80	100/75	120/90+
С	Sign Spacing	25	40	50/35	60/45+
D	Longitudinal Safety Zone	10	15	15	20
Е	Lateral Safety Zone	1	1	1	1
G	Taper Length	30	50	90/50	100/60+
K	Distance between tapers	40	50	50	60
Cone spacing in taper		2.5	2.5	2.5	2.5
Cone spacing : Working Space		5	5	5	5

Site Installation Mobile Operations

- Single lane situations
 - Extended area of conflict for passing vehicles

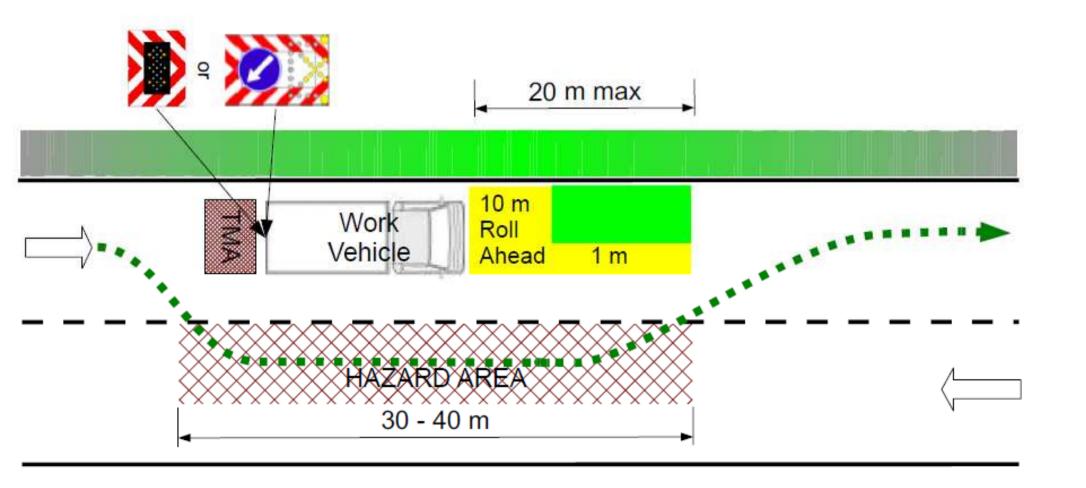


Site Installation Mobile Operations

Mobile set up of Static TTM
Level 2
Less 65 km/h
Two lane / Two way road

Requirements:

- 1. Truck must have TMA & Arrowboard mounted
- 2. Access from kerb side of truck only
- May work in front of truck max 20 m (maintain 10m roll ahead and 1 m lateral safety zones)

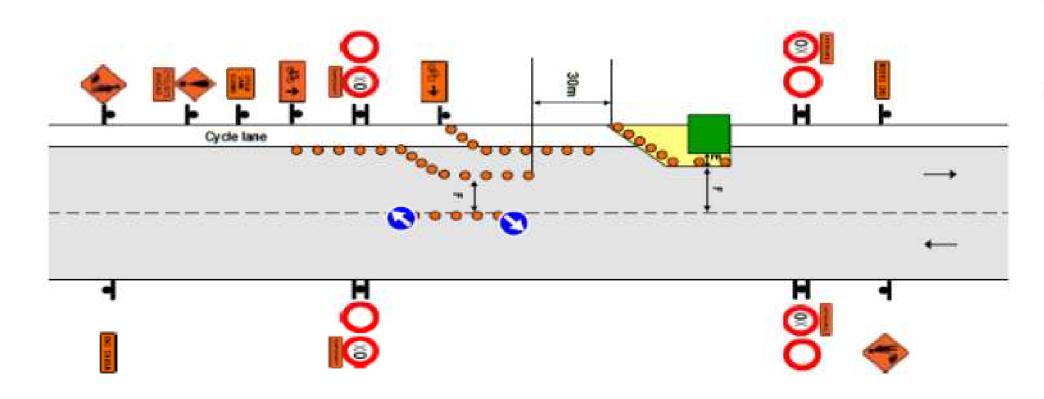


xample where cycle lane is merged with traffic lane

Cyclist Management

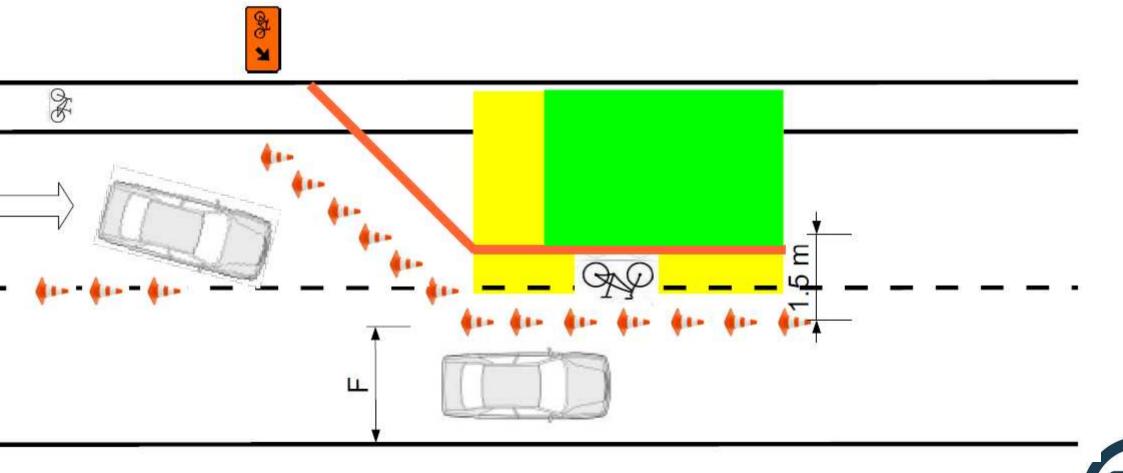
Cycle lane closed:

- Narrow roads / no dedicated lane
 - Cyclists want more space / narrow lane encourages TSL



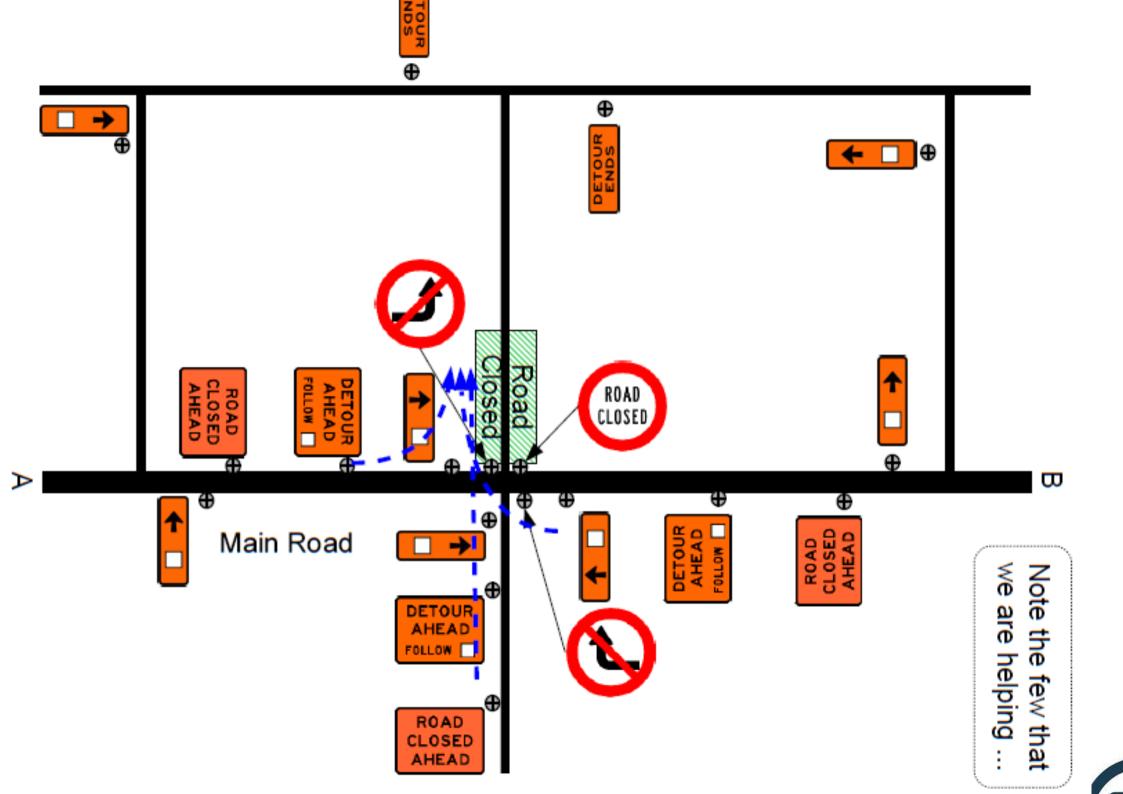
Gyonst management

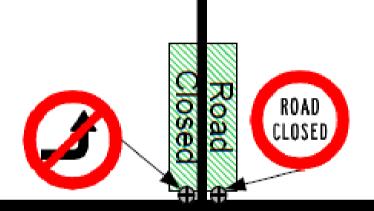
- Use lateral safety zone:
 - 1.5 m lane width (Lateral + 0.5 m)
 - Must have safety fence around work space
 - Separate footpath / cycle lane with fence



Detours for Road Closures

- Detours for some Road Closures are not catering to needs of public
 - Many users unaffected
 - Those users affected likely know how to get to their destination
- Consider:
 - Whether those affected actually need help
 - Needs for those affected relative to those who are not





Main Road



ROAD CLOSED AHEAD If the road closed is low relative volume ...

W

Temporary Bus Stop

- Activities sometimes require the movement of bus stops
- How do we inform patrons and bus drivers?
- New Sign suggested
- Additional standard layout options

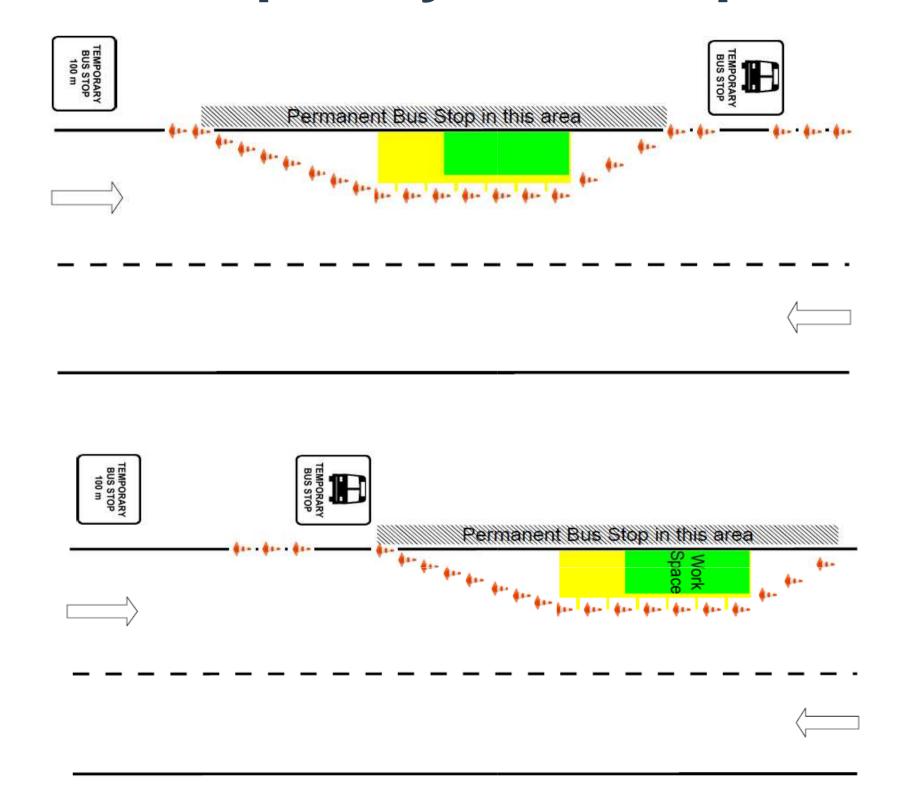
TEMPORARY BUS STOP 100 m TEMPORARY BUS STOP AHEAD



Temporary Bus Stop

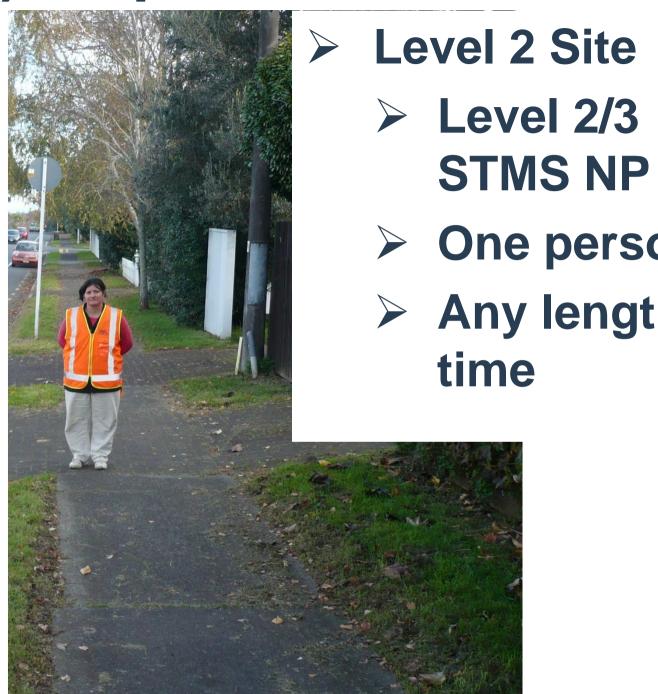
- Patrons will understand and congregate where bus will temporarily stop
- Bus drivers directed to appropriate and safe temporary stopping area

 Need to ensure buses have safe space to manoeuvre



(vioual) iliopections

evel LV / 1 Site
Level 1 TC / STMS
One person
Any length of time



ctivity differs from placing cones & signs

(visual) ilispections

 Propose a specific Inspections training / qualification recognised for this activity

Ackinowiedgements

- Site Installation Mobile Closures
 - John Glen (TC Auckland)
- Temporary Bus Stop:
 - Kate Maris, Terry Sugrue (AT)
 - Troy Campbell (NZ Traffic)
 - Stuart Fraser (NZTA)
- Inspections
 - Stuart Fraser (NZTA)
 - Doris Stroh (AMA / Beca)
 - Richard Quin (FH)

Questions?

nank you.

