



Prince Edward Island

TEMPORARY WORKPLACE TRAFFIC CONTROL MANUAL

2025



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Foreword

The Prince Edward Island Temporary Workplace Traffic Control Manual 2025, version 2025.09.01, is approved for use on roads in Prince Edward Island by the Minister of Transportation and Infrastructure. It sets **minimum** standards for construction, maintenance, and utility work on or by roads. The manual is ‘permissive’, which means that permitted things are described. Things that are not stated or described in the Manual are not permitted (e.g., there is no permission to place advertising on signs or devices, therefore it is not permitted).

The Minister has chosen to ‘publish’ the Manual by making the current legal edition available on the internet. The current online legal edition is available at:

www.princeedwardisland.ca/en/publication/temporary-traffic-control-manual. Questions regarding the Manual should be directed to the Manager of Engineering Services at 902-368-5100.

It is anticipated that the Manual will be revised periodically. When changes occur, the Minister will update the Web copy noted above. As soon as ‘published’ on the web, the newer version will become the current legal edition. The Department may not broadcast notifications of changes. It is therefore the sole responsibility of Manual users to check periodically to make sure that they have the latest and legal edition.

The Manual was revised by the Traffic Control Manual Committee.

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Summary of the 2025 Revisions to the Temporary Workplace Traffic Control Manual 2016

Users with a hard copy of the Manual must ensure they are using the most up to date version. When revisions are made after publishing, they will be included below, with the date of the change noted.

The manual will now be called the Temporary Workplace Traffic Control Manual 2025. The following is a list of the major changes made to the 2016 Manual. Minor changes are not included in this list.

Manual Cover

The manual cover has been updated with a new photo and the new title (year changed).

Foreword (this foreword)

This foreword has been included to provide up-to-date contact information and to include the major revisions to the 2016 Manual.

2.0 Legal Authority

Any references to the Minister of Transportation, Infrastructure and Energy, in this Manual, have been changed to **Minister of Transportation and Infrastructure**, or the **Department of Transportation and Infrastructure**.

4.0 Definitions

A new definition has been added for the following terms:

AFAD

AFAD Operator

Automated Flagger Assistance Device (AFAD)

Downstream

SADT

Speed Limit

Summer Average Daily Traffic (SADT)

Upstream

10.0 Sign Device and Spacing

Taper length is now described as either a Transition Taper Length, L, or a Termination Taper or Partial Lane (Partial Lane Closure), L/2. This is reflected in Table 10.1.

Table 10.1 values for Transition Taper, L, and Delineator Spacing, D, have been updated for Speed Zone, V, of 50 km/h. The delineator spacing now reflects distances for 13 and 7 delineators.



A brief description of Termination Tapers and the determination of the number of delineators required has been added.

A schematic for taper length guidelines to show the distance T between two tapers has been added.

11.0 Temporary Condition Signs

Signs requiring fluorescent orange sheeting have been updated to include any temporary condition sign that must display red-orange flags.

The minimum level of reflectivity for white sheeting has been updated to ASTM D4956-19 Type IV (High Intensity).

The following signs are now required to have ASTM Type XI (Diamond Grade or Omnicube) Fluorescent Orange Sheeting:

TC-1A	Construction Ahead Advance (with distance tab)
TC-2	Road Work
TC-3	Survey Crew (all sizes)
TC-21	Traffic Control Person (all sizes)
TC-21A(PEI)	Traffic Control Person Ahead
TC-51	Bump
TC-114(PEI)	Overhead Utility Work
TC-131(PEI)	TCP Ahead/Be Prepared to Stop
TC-165(PEI)	Road Work Ahead/Be Prepared to Stop

“Standards for Long Duration” is an added paragraph that describes the requirements for signposts during long duration work. This paragraph now also includes standards for post mounted signs height requirements.

“Use of Portable Sign Supports” paragraph has been updated for night work requirements.

11.1 Schedule of Signs

The following signs have been added to or changed in the Schedule of Signs:

TC-1A	Construction Ahead Advance - Colour
TC-2	Road Work – Colour
TC-3	Survey Crew – Colour
TC-5Z(PEI)	Zipper Merge – New
TC-5ZA(PEI)	Zipper Merge Ahead – New
TC-11E(PEI)	Detour Ends – Bilingual



TC-17(PEI)	Yield to Oncoming Traffic – Bilingual, Shape
TC-18(PEI)	One Lane Traffic Operation Ahead – Bilingual
TC-21	Traffic Control Person – Colour
TC-21A(PEI)	Traffic Control Person Ahead – Colour
TC-36S	Temporary Distance Advisory Tab Sign – Bilingual
TC-51	Bump - Colour
TC-85	Temporary Remote Control Device – New
TC-104(PEI)	Tar Ahead – Bilingual
TC-105(PEI)	Temporary Pavement Marking - Bilingual
TC-106(PEI)	End Temporary Pavement Marking – Bilingual, Size
TC-112(PEI)	Be Prepared to Stop – Bilingual
TC-113(PEI)	Road Ends – Bilingual
TC-114(PEI)	Overhead Utility Work – Colour
TC-117(PEI)	Slow Moving Vehicles Ahead – Bilingual
TC-118(PEI)	Follow Me Do Not Pass - Bilingual
TC-131(PEI)	TCP Ahead/Be Prepared to Stop – Colour
TC-141(PEI)	Street Closed – Bilingual, Colour, Shape
TC-142(PEI)	Local Traffic Only – Bilingual, Colour, Shape
TC-144(PEI)	Sidewalk Closed – Bilingual, Colour, Name, Shape
TC-161(PEI)	Right or Left Lane Closed 1km – Design
TC-165(PEI)	Road Work Ahead/Be Prepared to Stop – Colour
TC-171(PEI)	Speed Fines Double in Work Areas – Bilingual, Colour, Size
TC-175(PEI)	Road Closed – Bilingual

11.2 Exemption from Schedule of Signs

The following signs are exempt from full compliance until April 1, 2028:

TC-1A	Construction Ahead Advance	Existing signs with High Intensity
TC-2	Road Work	Existing signs with High Intensity
TC-3	Survey Crew	Existing signs with High Intensity
TC-11E(PEI)	Detour Ends	Existing non-bilingual signs
TC-17(PEI)	Yield to Oncoming Traffic	Existing non-bilingual signs



TC-18(PEI)	One Lane Traffic Operation Ahead	Existing non-bilingual signs
TC-21	Traffic Control Person	Existing signs with High Intensity
TC-21A(PEI)	Traffic Control Person Ahead	Existing signs with High Intensity
TC-36S	Temporary Distance Advisory Tab Sign	Existing non-bilingual signs
TC-51	Bump	Existing signs with High Intensity
TC-104(PEI)	Tar Ahead	Existing non-bilingual signs
TC-105(PEI)	Temporary Pavement Marking	Existing non-bilingual signs
TC-106(PEI)	End Temporary Pavement Marking	Existing non-bilingual signs
TC-112(PEI)	Be Prepared to Stop	Existing non-bilingual signs
TC-113(PEI)	Road Ends	Existing non-bilingual signs
TC-114(PEI)	Overhead Utility Work	Existing signs with High Intensity
TC-117(PEI)	Slow Moving Vehicles Ahead	Existing non-bilingual signs
TC-118(PEI)	Follow Me Do Not Pass	Existing non-bilingual signs
TC-131(PEI)	TCP Ahead/Be Prepared to Stop	Existing signs with High Intensity
TC-141(PEI)	Street Closed	Existing non-bilingual signs
TC-142(PEI)	Local Traffic Only	Existing non-bilingual signs
TC-144(PEI)	Sidewalk Closed	Existing non-bilingual signs
TC-161(PEI)	Right or Left Lane Closed 1km	Existing non-bilingual signs
TC-165(PEI)	Road Work Ahead/Be Prepared to Stop	Existing signs with High Intensity
TC-171(PEI)	Speed Fines Double in Work Areas	Existing non-bilingual signs
TC-175(PEI)	Road Closed	Existing non-bilingual signs

11.3 Sign Descriptions

The following signs have been added to or changed in the Sign Descriptions:

TC-1A	Construction Ahead Advance - Colour
TC-2	Road Work – Colour
TC-3	Survey Crew – Colour
TC-4	Construction Zone Ends – Use
TC-5Z(PEI)	Zipper Merge – New
TC-5ZA(PEI)	Zipper Merge Ahead – New
TC-11E(PEI)	Detour Ends – Bilingual



TC-17(PEI)	Yield to Oncoming Traffic – Bilingual, Shape
TC-18(PEI)	One Lane Traffic Operation Ahead – Bilingual
TC-21	Traffic Control Person – Colour
TC-21A(PEI)	Traffic Control Person Ahead – Colour
TC-36S	Temporary Distance Advisory Tab Sign – Bilingual
TC-51	Bump - Colour
TC-85	Temporary Remote Control Device – New
TC-103(PEI)	Construction Zone - Use
TC-104(PEI)	Tar Ahead – Bilingual
TC-105(PEI)	Temporary Pavement Marking – Bilingual
TC-106(PEI)	End Temporary Pavement Marking – Bilingual, Size
TC-112(PEI)	Be Prepared to Stop – Bilingual
TC-113(PEI)	Road Ends – Bilingual
TC-114(PEI)	Overhead Utility Work – Colour
TC-117(PEI)	Slow Moving Vehicles Ahead – Bilingual
TC-118(PEI)	Follow Me Do Not Pass – Bilingual
TC-131(PEI)	TCP Ahead/Be Prepared to Stop – Colour
TC-141(PEI)	Street Closed – Bilingual, Colour, Shape
TC-142(PEI)	Local Traffic Only – Bilingual, Colour, Shape
TC-144(PEI)	Sidewalk Closed – Bilingual, Colour, Name, Shape
TC-161(PEI)	Right or Left Lane Closed 1km – Design, Use
TC-165(PEI)	Road Work Ahead/Be Prepared to Stop - Colour
TC-171(PEI)	Speed Fines Double in Work Areas – Bilingual, Colour, Size, Use
TC-175(PEI)	Road Closed - Bilingual

11.4 Regulatory Sign Descriptions

The following signs have been added to or changed in the Regulatory Sign Descriptions:

- RB-34 Keep Right Except to Pass – Bilingual
- RC-4 Stop Line – Bilingual, Size



12.5 Regulatory Devices

Under the Stop/Slow Paddle header, the height of the sign has been clarified. The SLOW sign is now bilingual.

12.6 Automated Flagger Assistance Device (AFAD)

This section has been added to this Manual, which was added as an addendum in 2021 (Addendum Section 13.3). These regulations came into effect as of May 18, 2021.

13.1 Traffic Control Persons

CSA standards and requirements have been updated throughout this section.

Arm bands or arm cuffs to be worn by Traffic Control Persons are no longer mandatory and are now optional.

For night operations, the place where the Traffic Control Person should stand has been updated to be beside the light and not directly under it.

14.0 Set-Up & Take-Down Procedures

A Section has been added to describe when a Traffic Control Person should take their place on the road, and the order delineation devices should be set-up.

Figures 14.1 through 14.7 in this section have been colourized.

14.8 Automated Flagger Assistance Device (AFAD)

This section has been added to this Manual, which was added as an addendum in 2021. These regulations came into effect as of May 18, 2021.

15.0 Application Guide Flow Chart

Updated to reflect the addition of the D series Application Guides.

15.4 Application Guides 'D': Roundabouts

This section has been added to accompany the new D series Application Guides.

15.5 Application Guides 'A', 'B', 'C' and 'D': Utility Work

This section has been renamed.

15.6 Application Guides 'A', 'B', 'C' and 'D': Special Operations

This section has been renamed.



15.7 Blending Application Guides

This is a new section added to the Manual. One Application Guide may not always provide a safe or complete solution, and this section discusses the ability for some Guides to have elements blended together. These solutions will require formal approval.

Guides 'A', 'B', 'C' and 'D'

Almost all of the Application Guides have been revised and updated. Below is a list of the extensive changes:

Application Guides 'D' have been added which provide standards for roundabouts.

The AFAD Guide has been added to the B and C Series Application Guides as Guide 35A. The AFAD Guide was added as an addendum in 2021.

New Application Guides added to existing sections are A 62L, A 62R, A 63L, A 63R, A 68, B 92.

Signs that must have fluorescent orange sheeting have been updated.

A length of L/2 is shown on all Guides with a required Termination Taper.

Any Application Guides showing signs with written warnings are now bilingual.

The supporting tables on the Guides have been updated, where applicable, in accordance with changes made to section 10.

All Guides, where applicable, now show the minimum number of delineators required in a taper with corresponding information on requirements.

TC-4 Road Work and TC-171(PEI) Speed Fines Double in Work Areas have been added to all applicable Application Guides. These signs are required for long duration work and are optional for short and very short duration work.

Note: If TC-171(PEI) is used, TC-4 must also be used. This is so that TC-171(PEI) can be enforceable.



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1.0 Introduction

This edition of the *Prince Edward Island Temporary Workplace Traffic Control Manual* is a compilation of amendments to the traffic control procedures for road work. The purpose of the manual is to provide a traffic control standard for construction, maintenance, and utility operations on highways and streets in Prince Edward Island. It is applicable to all temporary work sites and all roads in the Province.

When construction or maintenance activities interrupt the normal operating conditions of a street or highway, temporary traffic control provides for the continuity of movement of motor vehicles, bicycle and pedestrian traffic, and access to property utilities.

The function of temporary workplace traffic control is to:

- Protect workers in Temporary Work Areas from errant vehicles.
- Provide for the safe and efficient movement of motor vehicles, bicycles, and pedestrians around or through temporary workplaces.

The safety of workers is of equal importance to the safety of public travelling through a temporary traffic control zone. Temporary traffic control zones present constantly changing roadway conditions that are not expected by the road users. This presents a high degree of risk to workers, which must be mitigated. Never start or continue work if the safety of either motorists or workers is jeopardized.

Every temporary workplace traffic control zone must consider road-user safety, worker safety, and the efficiency of traffic flow at all stages of the project from planning to completion. Efficient construction and maintenance of the street or highway are equally important.

The *Prince Edward Island Temporary Workplace Traffic Control Manual* provides uniformity in temporary workplace traffic control procedures by stating principles of temporary workplace traffic control and by schematically presenting a number of traffic control applications and procedures (the Application Guides).

This Manual uses the words “may,” “should,” “must,” and “shall” in a specific manner to convey a specific meaning:

may – a permissive condition; no requirement for design or application is intended.

should – an advisory condition; recommended but not mandatory.

must/shall – a mandatory condition; requirements have to be met.

Unless otherwise stated, the Manual depicts the minimum level of traffic control for a particular application.

On gravel roads where both traffic and volume speeds are low, the number and/or spacing of signs may be dictated by existing conditions. On gravel roads with either high traffic volumes or speeds, the specific signing procedures outlined in this manual must be followed.

The Manual cannot consider all the variables for every situation that may arise. Traffic volume, traffic speed, roadway and work site conditions for a particular location may vary significantly from the typical condition depicted in the guides. Exercise good technical judgement in the design of the temporary workplace traffic control plan. Use additional signs, markings, and worker protection if they seem necessary.

Conduct an on-site review of the traffic control plan immediately after the plan is implemented and periodically as conditions change. Correct the plan as required.



2.0 Legal Authority

The Minister of Transportation and Infrastructure has the responsibility and legal authority to regulate and control traffic on public highways in Prince Edward Island and has supervision and general control over the laying out, opening, altering, building, improving, maintenance, and repair of public highways in Prince Edward Island, pursuant to the *Public Works Act*, the *Highway Traffic Act* and the *Roads Act*.

This edition of the *Prince Edward Island Temporary Workplace Traffic Control Manual* has been approved by the Minister of Transportation and Infrastructure, pursuant to Section 6 of the *Roads Act* as the minimum standard for construction and maintenance activities on public highways in Prince Edward Island.

The Workers Compensation Board, as established under the *Workers Compensation Act*, has been legislated under the *Occupational Health and Safety Act*, to administer the *Occupational Health and Safety Act* and regulations, and as such has the legal authority to enforce traffic control procedures and to

regulate workplace occupational health and safety in Prince Edward Island. The current edition of the *Prince Edward Island Temporary Workplace Traffic Control Manual* constitutes a compilation of amendments to the *Traffic Control Procedures for Road Work Manual*. The Department of Transportation and Infrastructure may enforce its provisions concerning workplace traffic control procedures.

Highway signs, pavement markings, traffic control signals, and any other devices or persons intended or employed to regulate, warn, or direct traffic in a Temporary Work Area must operate under the authority of the agency that has jurisdiction over the affected section of road.

Road contractors and public utility companies may install or direct the installation of temporary road signs, markings, or devices, or assign Traffic Control Persons to direct and regulate traffic and to protect workers in accordance with legislative requirements pursuant to all of the pertinent legislation governing such activities.



3.0 Legal Liability

The purpose of temporary workplace traffic control is to provide for safe and efficient movement of traffic through or around Temporary Work Areas and to protect workers from errant vehicles. Its purpose is not to reduce legal liability in the courts. However, taking care to help traffic flow and prevent other incidents will also assist in reducing the liability for a collision or other incident.

The necessary elements of care include (but are not limited to):

- Designing and implementing an appropriate traffic control plan.
- Making an on-site review of the plan once it is set up.
- Inspecting the site frequently to ensure all signs and devices are in place and functioning properly.

The critical issue in deciding liability when a collision or other incident occurs is the care with which the defendants carried out their responsibilities. Therefore, if there is a collision or other incident at a site, you must be able to show that you exercised a reasonable standard of care. If you cannot show that a reasonable standard of care was followed, you may be liable for damages. The lower your standard of care, the greater your share of the damages.

You must be able to prove the standard of care you followed and met. This proof may be required for any number of reasons, including court actions. To be able to prove the standard of care you followed and met, you will need to keep careful records. The following are recommended as a minimum record keeping practice:

- Keep a record of all traffic control devices used on the project.
 - On large projects, keep a separate field book.
 - On small projects, it may be sufficient to keep a signed copy of the signing plan, or if a typical Application Guide was used, refer to the typical Application Guide used on the project in your field notes.
- Record the daily status of traffic control devices and the times of any changes to the devices as well as the changes that were made.
- Record the status of the traffic control devices as soon as possible after an incident. Take appropriate measurements and photographs and mark them with a date, time, and location.



4.0 Definitions

Words and phrases used in the *Prince Edward Island Temporary Workplace Traffic Control Manual* are defined as follows for the purpose of this Manual.

Active Work Area: the specific portion of roadway where construction, maintenance, or utility operations are being carried out; the area occupied by workers and work vehicles and where work is actually in progress.

Advance Warning Area: the area of the roadway in advance to an Active or Inactive Work Area in which drivers are given advance warning that they are approaching construction or maintenance activities or abnormal roadway conditions.

AFAD: see Automated Flagger Assistance Device

AFAD Operator: a person who is both qualified and accredited as a Traffic Control Person and also qualified and accredited in AFAD operation by the AFAD manufacturer.

Approach Area: the area of a roadway immediately preceding an Active or Inactive Work Area in which drivers are given the necessary information to safely traverse the Temporary Work Area.

Arrow Mode: one of the modes displayed by a Flashing Light Unit (FLU) consisting of an arrow shape, formed by the flashing lights displayed as a warning to approaching drivers to travel in the direction of the arrow.

Arterial Highway: a system of highways whose main function is the safe and efficient movement of traffic; may be controlled access or may permit land access as a secondary function. Ramps and merging areas on arterial highways are also included.

ASTM: designation of American Society for Testing and Materials.

Automated Flagger Assistance Device (AFAD): a Traffic Control Signal that uses red and amber lights and a gate arm to regulate traffic flow.

Bar Mode: one of the modes displayed by a Flashing Light Unit (FLU) consisting of a single horizontal row of flashing lights displayed as a warning to approaching drivers to increase their vigilance or to direct their attention to a warning sign.

Blocker Vehicle: a truck without a Truck Mounted Attenuator (TMA) positioned in advance of an Active Work Area to protect workers from errant vehicles.

Buffer Area: the area of a roadway between the Transition Area taper and the Work Area established to provide a recovery area for errant vehicles and for the placement of a Flashing Light Unit or Blocker or Protection Vehicles.

Changeable Message Sign: signs that are capable of displaying a number of fixed messages, any one of which may be displayed at a given time; the messages are changeable manually, by remote control, or by automatic control. These signs are also called Variable Message Signs or Dynamic Message Signs.

Channelization: the separation of traffic from Work Areas using delineation devices.



Collector Highway: a system of highways whose functions are equally divided between the efficient movement of traffic and land access. Collector highways generally have speed zones greater than 50km/h.

Construction Zone: a Temporary Work Area.

Continuous Moving Operation: a Mobile Operation that does not make intermittent stops in a travel lane.

Controlled Access Highway: a highway on which access to or from the highway is prohibited except at specific locations established by public authority.

CSA: designation of the Canadian Standards Association used to indicate the necessary requirements for safety related clothing, equipment, and devices.

Current Edition: the most recent edition or revision of the *Prince Edward Island Temporary Workplace Traffic Control Manual* as issued or amended from time to time by the Minister of Transportation and Infrastructure.

Delineation Device: a device that provides vehicle tracking and guidance information to drivers.

Delineator: a retro-reflective device placed in series along the edge of a roadway or travel lane to provide nighttime guidance to drivers.

Double Posted: signs erected on both sides of a highway approaching a Work Area.

Downstream: relative to the lane containing the Work Area, the direction in which traffic flows. Also, may be shown on Application Guides in the direction of the top of the page.

Excavation: a hole or trench more than 300 mm in depth – if in or adjacent to a travel lane, drivers must be provided extra protection. Trenching for curb and gutters should be treated as a low shoulder rather than an excavation.

Flashing Amber Light 360°: a light that emits an amber flash pattern visible 360° around the light; normally mounted on the cab of equipment to provide a warning of its presence. A Flashing Amber Light 360° must be visible for a minimum of 300 metres during daylight hours.

Flashing Light Bar (FLB): a warning light unit with a minimum of two 55-watt flashing halogen lights and an internal reflector mirror that creates the appearance of a double flash with every rotation of the lights.

Flashing Light Unit (FLU): a warning light unit with a matrix of lights capable of flashing a horizontal bar or pattern of lights forming directional arrows.

FLB: see Flashing Light Bar

FLU: see Flashing Light Unit

High Mounted Portable Base: a mounting device for fabric roll-up 75 cm x 75 cm signs. The base of the sign must be placed at least 50 cm from the pavement.

High Shoulder: a shoulder that is higher than the travel lane by an amount sufficient to be an expected hazard to an unaware driver striking the raised shoulder with a tire; generally caused by cold planing operations.

Highway: a generic term that includes all types of freeways, roads, and streets whether divided or undivided, multi-lane, or two-lane, two-way.

Highway Traffic Act: current edition of the *Prince Edward Island Highway Traffic Act*.



Impact Attenuator: a traffic barrier of energy absorbing material used to shield fixed objects from the impact of an errant vehicle.

Inactive Work Area: the portion of the roadway or right-of-way on which work has commenced but has temporarily ceased without the roadway being returned to normal operating conditions. This is the same portion of a Temporary Work Area as an Active Work Area.

Lane Closure: the closing of a travel lane by blocking it in an approved manner and directing traffic around it.

Liability: the legal responsibility for damages or injuries arising from a temporary workplace motor vehicle collision.

Long Duration Work: work at a site that will take longer than 24 hours to complete, the road condition not being restored to normal condition at the end of the day.

Low Shoulder: a shoulder drop off that is lower than the travel lane by 100 mm or is not fully functional by being covered with loose uncompacted gravel; generally caused by resurfacing operations.

Low Volume Road: a road having an hourly traffic volume of less than 30 vph during the period that the road will be under repair; Arterial Highways can never be treated as low volume, whatever their actual traffic volume.

Low Volume Urban Street: an Urban/Residential Street having an hourly traffic volume less than 200 vph during the period that the street will be under repair; the volume may be estimated by conducting a 3-minute count and multiplying the volume by 20.

Maintenance Zone: a Temporary Work Area.

Manual or Manual: current edition of the *Prince Edward Island Temporary Workplace Traffic Control Manual*.

May: a permissive condition; not a requirement. See also “should”.

Median: the portion of the right-of-way separating opposing lanes of travel on a multi-lane divided road.

Median Barrier: a non-traversable barrier in a median intended to prevent vehicles from crossing the median; a New Jersey barrier is a recognized type.

Median Crossover: a traversable construction area across a median on a multi-lane divided road to permit vehicles to change direction. Median crossovers can only be used by authorized vehicles.

Minibar: see Flashing Light Bar

Mobile Continuous: work that is carried out while moving continuously; usually operates at slow speeds.

Mobile Intermittent: work that is carried out while moving intermittently, with periodic stops that do not exceed a few minutes in duration; additional warning signs and devices are required for a mobile operation with intermittent stops. See Special Operations.

Mobile Operation: work that is carried out while moving continuously, usually at slow speeds, or intermittently, with periodic stops that do not exceed a few minutes in duration; additional warning signs and devices are required for a mobile operation with intermittent stops.



Multi-Lane: generally, a road with two or more travel lanes in each direction; also, a road with two lanes on one approach, such as a climbing lane or a two-lane approach to an intersection.

Must: a mandatory condition; requirements have to be met. See also “shall”.

NCHRP: designation of the National Cooperative Highway Research Program.

Night Work: work performed during the period from a half hour before sunset to a half hour after sunrise.

Observer: a worker assigned the responsibility of watching for and warning of approaching traffic when another worker is on the travel lane of a road; usually the Temporary Work Area would be signed for Very Short Duration or Short Duration shoulder work and a worker would enter the travel lane from the shoulder to perform a brief task using only hand tools.

Off-Shoulder Work: work that is carried out within the right-of-way but is completely clear of the travel lanes and the shoulder of the road; no workers, equipment, or vehicles are permitted to encroach on the shoulder.

Park Lane: a paved lane adjacent to the travel lanes for parked vehicles; provided on some Urban/Residential streets instead of shoulders.

Partial Lane Closure: the partial closing of a travel lane by closing part of the lane and guiding traffic in the narrowed lane; a minimum of 2.75 m of usable lane must be available to traffic; not permitted on multi-lane highways.

Pilot Vehicle: a vehicle used to lead drivers through a Work Area. A Pilot Vehicle is not a substitute for Traffic Control Persons who continue to be required to stop and hold traffic

at each end of the job while awaiting the return of the Pilot Vehicle.

Portable Sign Support: a mounting device for 90 cm x 90 cm signs; the support may place the bottom of the sign at pavement or shoulder level.

Protection Vehicle: a truck with a Truck Mounted Attenuator (TMA) positioned in advance of an Active Work Area to block a travel lane and protect workers from errant vehicles entering the Work Area.

Road: a generic term that includes all types of freeways, highways, and streets whether divided or undivided, multi-lane, or two-lane, two-way.

Roll-up Sign: a portable temporary condition warning sign of a roll-up design consisting of a fabric substrata with a retro-reflective orange face.

SADT: see Summer Average Daily Traffic

Service Vehicle: a vehicle used to facilitate a construction or maintenance project to transport workers and equipment but not used in the work; may be used to place signs and devices.

Shall: a mandatory condition; requirements have to be met. See also “must”.

Short Duration Work: work at a site that will be completed in less than 24 hours of continuous work, or work that is ended each day and the road restored to its normal condition at the end of each day.

Should: an advisory condition; recommended but not mandatory. See also “may”.

Shoulder Work: work that is carried out on the shoulder of a road completely clear of the travel lanes; no workers, equipment, or vehicles are permitted to encroach on the travel lanes.



Special Operation: a construction or maintenance project that has some unusual feature that is not fully compatible with the Typical Application Guides, based solely on road class, encroachment, and work duration.

Speed Limit: the maximum speed permitted through an Active Work Area; the maximum speed limit through a construction zone is 60 km/h unless a lower speed limit is posted.

Summer Average Daily Traffic (SADT): takes in all vehicle trips on a segment of road or highway during the months of July and August, in both directions, divided by 62 to arrive at the average number of daily trips.

TCM: see Traffic Control Manager

TCP: see Traffic Control Person

Temporary Work Area: the area of a roadway which is directly affected by construction, maintenance, or utility operations. The site may be an Active Work Area or an Inactive Work Area, depending upon the work schedule of the project.

Termination Area: the area of a roadway immediately following a Temporary Work Area in which traffic returns to its normal alignment.

TMA: see Truck Mounted Attenuator

Traffic Control Manager (TCM): a person qualified and accredited by the Prince Edward Island Department of Transportation and Infrastructure to prepare and implement traffic control plans within a Temporary Work Area for construction, maintenance, or utility operations.

Traffic Control Person (TCP): a person qualified and accredited by the Prince Edward Island Department of Transportation and Infrastructure to direct the movement of traffic along or across a highway within an area designated as a

Temporary Work Area for construction, maintenance, or utility operations.

Trail Vehicle: a vehicle used to trail a Mobile Operation to provide advance warning to traffic overtaking the operation; trail vehicles must be equipped with appropriate advance signs and a Flashing Light Bar (FLB) or a Flashing Light Unit (FLU).

Transition Area: the area of a roadway in which traffic is guided from its normal alignment to the path required to move around the Work Area.

Transition Area Taper: a smooth alignment established to guide traffic from its normal alignment in the Transition Area; generally established by using cones or drums but may be unmarked.

Truck Mounted Attenuator (TMA): an energy absorbing device mounted on the rear of a truck used as a Protection Vehicle; Truck Mounted Attenuators must satisfy the requirements of NCHRP 350 Level TL-3 (100 km/h impact speed).

Typical Application: the prescribed minimum treatment for a particular construction or maintenance project; unique situations may require more than the minimum signs, devices, protection, or warning distances.

Uneven Lanes: a section of road on which one travel lane is higher (or lower) than the other lane by an amount sufficient to be an unexpected hazard to an unaware driver crossing the longitudinal joint between the lanes; caused by cold planing operations.

Upstream: relative to the lane containing the Work Area, the direction opposite to that in which traffic flows. Also, may be shown on Application Guides in the direction of the bottom of the page.



Urban/Residential Street: a street in an urban area with a maximum 50 km/h speed zone.

Utility Operations: construction or maintenance work involving overhead lines or cables; may be signed for using TC-114(PEI) Overhead Utility Work rather than TC-2 Road Work.

Very Short Duration Work: work that occupies a location for up to 30 minutes, excluding equipment set-up and take-down time.

Vph: vehicles per hour.

Work Activity: the specific task being carried out as part of a construction or maintenance project.

Work Area: see Temporary Work Area

Work Vehicle: a vehicle used to facilitate construction, maintenance, or utility operations in a Temporary Work Area.

Workplace Traffic Plan (WTP): a plan prepared and approved by the Regional Engineer prior to the beginning of work, noting all procedures and devices needed to guide traffic in a clear and positive manner while it approaches and travels through a Temporary Work Area. On small projects a typical Application Guide may be used; on large projects a plan specific to that project will be required.

WTP: see Workplace Traffic Plan

You: the person(s) responsible for the temporary workplace referred to in this manual. Can be an owner, contractor, manager, foreman, etc.



5.0 Fundamental Principles

The regulation and control of road users through a temporary traffic control zone is an essential part of highway construction, maintenance, and utility work.

All traffic control signs, markings, devices, and procedures used for construction, maintenance, and utility operations must conform to or exceed the intent of the applicable specifications of this manual.

Traffic and worker safety must be an integral part of every project, from planning through design and construction.

Traffic Control Managers (TCMs) and Traffic Control Persons (TCPs) must be trained and accredited in the principles and practices of safe temporary workplace traffic control before being assigned responsibility for traffic guidance and control at Temporary Work Areas.

Implementation Processes

Traffic Control Managers (TCMs) must use the following process for every project, keeping in mind the fundamental principles listed above:

- Prepare a workplace traffic control plan with sufficient detail for the complexity of the project.
- Discuss the plan with everyone.
- Make sure everyone understands the work plan before the work is started.

Implementation Principles

Traffic Control Managers (TCMs) must use the following principles when preparing and implementing the traffic control plan:

- Control traffic movement through a Temporary Work Area so as to maintain safe working and driving conditions and minimize delays and queue lengths.
- Avoid frequent or abrupt changes in alignment that require rapid maneuvers.
- Provide for the safe operation of work vehicles.
- Guide traffic in a clear and positive manner while it approaches and travels through Temporary Work Areas.
 - Provide adequate warning, delineation, and channelization.
 - Place signs and devices so that they are visible to all approaching traffic, whatever the driving lane or potential passing maneuver.
 - Cover or remove inappropriate signs.
 - Remove inappropriate pavement markings unless the project is short term, and it is reasonable to leave existing pavement markings in place and compensate for their presence with channelization or delineation markers or other devices.
 - Inspect signs and devices frequently, relocating or replacing signs or devices if required.



Implementation Requirements

Traffic Control Managers (TCMs) must meet these requirements while implementing and managing the workplace traffic control plan:

- Start work only after appropriate traffic controls are in place.
- Modify traffic controls as required to meet changing conditions at the Work Area.
- Cover or remove temporary traffic control devices that are no longer applicable because of changes in the work pattern, or the job shut down at the end of the workday.
- Uncover or erect temporary traffic control warning signs or devices to ensure that drivers receive proper warning and notification of conditions when the Work Area is inactive, especially at night.
- Cover or remove all temporary traffic control devices when roadway conditions have been returned to normal.
- At the completion of the work, install or re-erect permanent:
 - Regulatory and warning signs.
 - Pavement markings.
 - Guide and information signs.



6.0 Components of a Temporary Workplace Traffic Control Zone

A plan for temporary workplace traffic control should recognize the six distinct areas of a Temporary Work Area. The Temporary Work Area is the entire section of road between the first advance warning sign and the resumption of normal roadway conditions. The six areas are:

- Advance Warning Area
- Approach Area
- Transition Area
- Buffer Area
- Active Work Area
- Termination Area

Each of the component areas will be present in some form in most work zones. Some components may be combined if traffic volume, speed, and visibility permit. The characteristics of each component area are given below.

Advance Warning Area begins at the first advance warning sign used to inform drivers to expect road work ahead. The advance warning may be a single sign or a series of signs beginning up to several kilometres before the Approach Area.

Approach Area begins at the first specific warning sign used to give drivers the information necessary to drive safely through the Temporary Work Area, such as lane changes, or the presence of Traffic Control Persons or signals. The information is normally conveyed by a series of properly spaced signs.

Transition Area begins with the delineation devices used to channelize traffic from its normal alignment to the path required to move around the Work Area. The Transition Area contains the

channelizing devices used to form the taper, including cones, drums, and New Jersey Barriers. The intended path must be clearly delineated for drivers. For long duration operations, the existing pavement markings may have to be removed, and new markings placed. The Transition Area must be kept clear of unnecessary obstruction.

- Do not store material or equipment in the Transition Area.
- Do not park vehicles in the Transition Area.
- Operational traffic control devices may be positioned in the Transition Area, including trailer-mounted Flashing Light Units.

Buffer Area is established between the Transition Area taper and the Work Area to provide a recovery area for errant vehicles and a margin of safety for both motorists and workers. Use channelization devices to delineate the Buffer Area **except**:

- During Mobile Operations when the Buffer Area is in the space between the Trail Vehicle and the work vehicles.
- During Very Short Duration Work.

Keep the Buffer Area clear of unnecessary obstructions. Do not store material or park equipment or vehicles in the Buffer Area **except**:

- For operational traffic control devices, which may be positioned in the Transition Area, including trailer-mounted or truck mounted Flashing Light Units.
- When a Blocker Vehicle or a Protection Vehicle is used to give extra protection to workers.



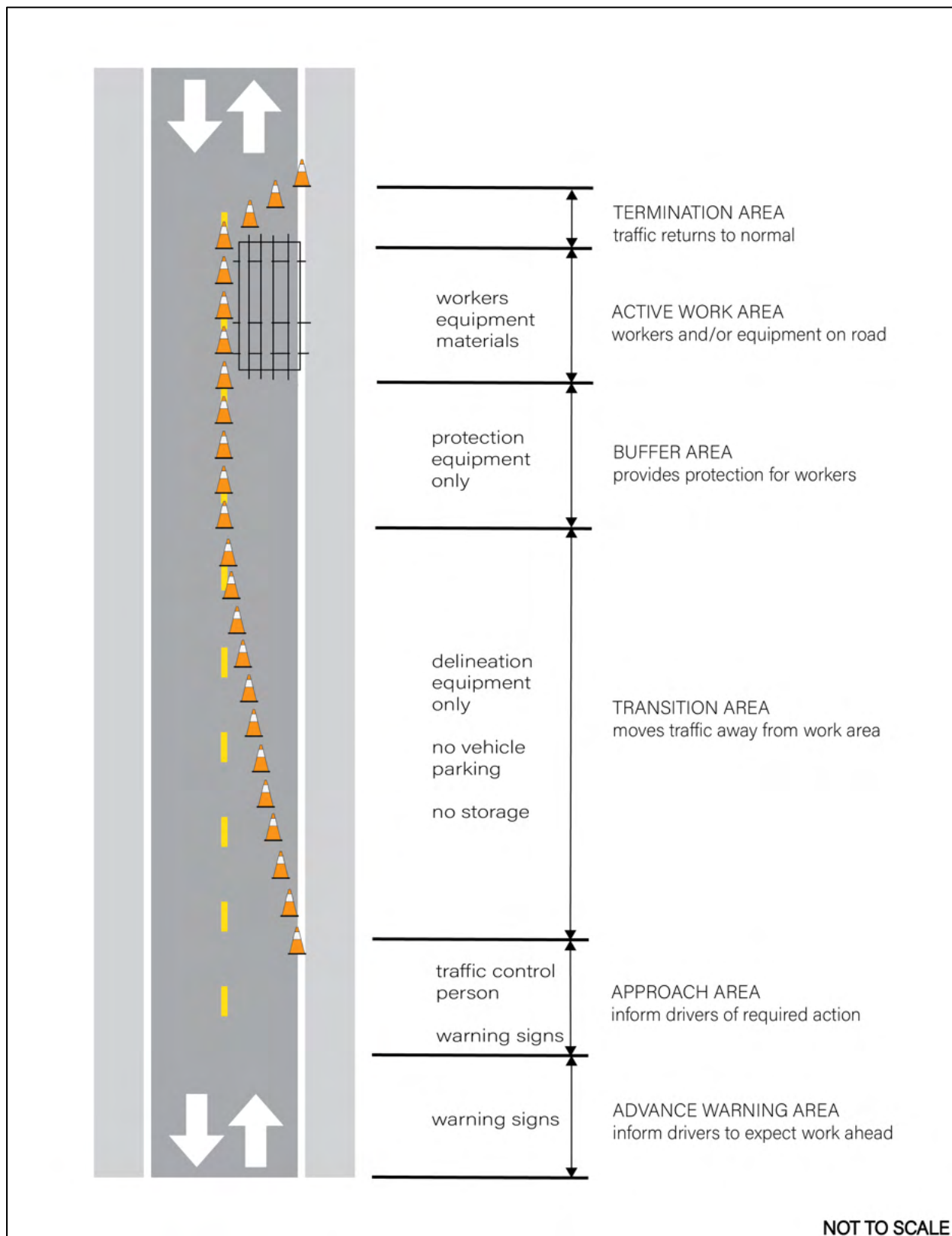
Work Area is the portion of roadway where construction, maintenance, or utility operations are being carried out. It is the area occupied by workers and vehicles. A Work Area can be:

- “Active,” with work being carried out at the present time.
- “Inactive,” with work having commenced but temporarily ceased and the roadway not returned to normal operating conditions.

Termination Area provides a short distance for traffic to clear the Work Area and return to its normal path and to normal roadway conditions. A short taper area may be provided.



Component Areas of a Temporary Workplace Traffic Control Zone



7.0 Planning and Preparation Checklist

Review the following Planning and Preparation Checklist before starting a construction or maintenance project. Consider the size and duration of the project. Determine how applicable each item is to the project.

1. Determine the type of work to be performed.
2. Determine the duration of the work to be performed.
3. Become familiar with all applicable regulations.
4. Carry out a site review to determine:
 - Level of encroachment on travel lanes.
 - Prevailing vehicle speeds.
 - Stopping sight distances.
 - Traffic volumes (peak hour and off-peak volumes and distribution). If the roadway is a “low volume” roadway during off-peak hours, it can only be treated as “low volume” if the work will be carried out and completed during “low volume” time period. If the project will be active at night, review nighttime traffic patterns and volumes.
 - Pedestrian walking routes and school zones.
 - Expected weather conditions.
 - Nighttime visibility if the project will be active at night or if roadway conditions will be affected at night.
 - Overhead and underground wires, cables, and pipelines.
5. Contact the local police for comments on traffic and unexpected problems.
6. Determine the type of traffic control required and prepare a preliminary plan. A suitable Workplace Traffic Plan (WTP) must include:
 - The minimum deployment of warning signs and traffic control devices to achieve a safe Work Area under expected traffic conditions.
 - A transitional plan to deploy the warning signs and traffic control devices and to direct traffic to the new (temporary) alignment.
 - Additional warning signs and traffic control devices that may be needed to achieve a safe Work Area under heavy or unusual traffic conditions.
 - The number of Traffic Control Persons (TCPs) required at the Work Area and their work schedule.
 - A statement clarifying if a Traffic Control Manager (TCM) is required exclusively on the project.

A suitable Workplace Traffic Plan (WTP) must consider whether or not:

 - The plan allows for the safe and efficient passage of emergency vehicles.
 - There will be conflicts between existing traffic control devices and the proposed temporary workplace traffic control plan. Do not plan to alter or remove existing traffic control devices without approval.
 - Night work will be part of the project. If so, review existing lighting and lighting requirements.
7. Arrange a public awareness/public relations meeting if required.



- Provide information to the public concerning the extent of the project, the timing of any phases, the preliminary workplace traffic control plan, and the expected impact.
 - Advise occupants of abutting properties of expected parking prohibitions or access limitations.
- 8. Prepare final Workplace Traffic Plan:**
- Prepare a list of traffic control devices required and ensure their availability.
 - Prepare a list of personal protective equipment required and ensure it is available.
 - Identify appropriate procedures for sign and device set-up and take-down.
- 9. Obtain all required permits, approvals, and authorizations.**
- 10. Arrange for the removal and storage of signs and other traffic control devices when work is not being performed.**
- 11. Arrange for additional temporary traffic control warning signs or devices to ensure that drivers receive proper warning and notification of conditions when the Work Area is inactive, especially at night.**



8.0 Work Duration

The duration of the work is a major factor in deciding the number and types of signs and other temporary traffic control devices required to efficiently establish a safe Temporary Work Area. The duration of a temporary traffic control zone is defined by the length of time the work operation occupies a single location or several adjacent locations that are so close together that they effectively are a single location and are signed as a single location.

The four categories of work duration are:

- Mobile Operations (Moving Operations)
- Very Short Duration Work
- Short Duration Work
- Long Duration Work

Mobile Operations consist of work carried out while the equipment and workers are:

- Moving continuously, usually at slow speeds or,
- Moving intermittently, with periodic stops.

For **Mobile Continuous** (Moving Operations) on low volume roads where speed is low and visibility is good, a well-marked and well-signed vehicle may be sufficient. If traffic volume is higher, a Buffer Vehicle with a Flashing Light Unit must follow the Work Vehicle. If both traffic volume and speed are high, the Buffer Vehicle must have a Flashing Light Unit and should be equipped with a Truck Mounted Attenuator.

Mobile Intermittent Moving Operations are Special Operations. They may only be undertaken by properly equipped and trained work crews and specially equipped vehicles.

Mobile Intermittent Moving Operations are, in effect, moving lane closures accomplished by vehicles and proper illumination and attached signs alone. Traffic Control Persons are not usually used to direct traffic. Workers on foot are permitted on the road surface only when protected by a Protection Vehicle or a Blocker Vehicle with a Flashing Light Bar (FLB) or a Flashing Light Unit (FLU), and only if there is clear and sufficient sight distance.

Very Short Duration Work occupies a location for up to 30 minutes, excluding equipment set-up and take-down time. The time required to set up and take down normal traffic control devices for very quick jobs can exceed the time required to do the actual work.

Short Duration Work is work at a site that will be completed in less than 24 hours of continuous work or work that is ended each day and the road restored to its normal condition at the end of each day.

Long Duration Work is work at a site that will take longer than 24 hours to complete and the road condition will not be restored to its normal condition at the end of each day.



9.0 Roadway Encroachment

There are four stages of encroachment:

- Off-Shoulder Work
- Shoulder Work
- Partial Lane Closure
- Lane Closure

Off-Shoulder Work is carried out within the right-of-way but is completely clear of the travel lanes and the shoulder of the road. Workers, equipment, or vehicles do not encroach on the shoulder.

Off-Shoulder Work requires no traffic control signs or devices if the actual work site is beyond the shoulder and all work vehicles and equipment are beyond the shoulder.

Signing (for Shoulder Work) is required if:

- Equipment sits on the shoulder to serve an off-shoulder work site.
- Support vehicles are parked on the shoulder.
- Support vehicles cross the shoulder to reach the work site.

Shoulder Work is work carried out on the shoulder of a road or the park lane of an urban/residential street completely clear of the travel lanes. Workers, equipment, and vehicles do not encroach on the travel lanes. Shoulder Work requires traffic control signs or warning devices, or both.

The normal signing for Short Duration Shoulder Work and Long Duration Shoulder Work is one sign on each affected approach on arterial highways and one sign on collector highways. Approaching drivers may be adequately warned of Very Short Duration Shoulder Work by flashing lights or a Flashing Light Bar or Flashing Light Unit on the work vehicle.

Partial Lane Closure closes part of a travel lane and guides traffic in the narrowed lane. A minimum of 2.75 metres of usable lane must be available to traffic.

A Partial Lane Closure is **not** allowed on:

- Controlled access arterial highways.
- Multi-Lane highways.

A Partial Lane Closure is allowed:

- On urban/residential streets,
- On two-lane two-way collector highways,
- On interchange ramps, and
- For utility work only, on uncontrolled access arterial highways.

On highways and on urban/residential streets, an altered centreline or lane line must be marked with cones or other suitable markers to guide traffic past the work site if sufficient width is available to maintain 2.75 m lanes throughout. On-street parking on the side opposite the Work Area may be removed and the parking area used as a travel lane to provide the necessary street width.

Lane Closure closes a travel lane by blocking it in an approved manner and directing traffic around it. Lane Closure requires the effective use of warning signs and other warning devices. Lane Closures on two-lane two-way highways expect those on Low Volume Urban/Residential Streets require active traffic control to regulate the flows of traffic past the work site. Active traffic control may be provided by Traffic Control Persons or by temporary or permanent traffic signals.



10.0 Sign and Device Spacing

The purpose of signing and marking a Work Area is to allow a driver to make a correct assessment of the conditions existing at the Work Area, slow to an appropriate speed, and follow a safer route around the workers and equipment. To do this, drivers need sufficient information given in a controlled and timely manner. Information given too early will be forgotten by the time it is needed. Information given too late will divide the driver's attention between the message and the driving task.

The general practice followed in the manual is to give the driver:

- Two separate pieces of information concerning a Work Area in the travel lane.
- One piece of information if the Work Area is not in the lane but might become a hazard if approached unexpectedly (either in the opposite lane or on the shoulder).

The spacing for the various components of Work Area signing depends on the traffic approach speed and driver expectancy. Drivers must both receive information in time to react to it AND not have to perform an unexpected or rapid maneuver. This is especially important for drivers who may have travelled for a considerable distance without any interference.

The distances shown in Table 10.1 for the given speed zone (V) are the **minimum** distances A (sign spacing), L (lane closure Transition Taper), L/2 (partial lane closure Transition Taper or Termination Taper), and T (between two Transition Tapers, used only when moving approaching traffic over more than once, e.g. closing two lanes), and the **maximum** distance D (delineator spacing). If the precise measurement for the placement of a sign or the beginning of a taper is at a location with inadequate sight distance, increase the distance to compensate.

Table 10.1 - Sign and Device Spacing and Distance

Symbol	Spacing Description	Collector, Local Highways and Urban/Residential			Arterial and Multi-Lane Highways			
		50	60-70	80	50	60-70	80	90
V	Speed Zone (km/h)	50	60-70	80	50	60-70	80	90
A	Sign Spacing (m)	50	75	100	50	100	150	200
L	Transition Taper (m)	30	60	120	30	60	120	180
L/2	Partial Lane Transition Taper (m)	15	30	60	-	-	-	-
	Termination Taper (m)	15	30	60	15	30	60	90
D	Delineator Spacing (m)	2.5/5*	5	10	2.5/5*	5	10	15
T	Distance Between Tapers (m)	-	-	-	50	100	250	300

*This value is determined based on if the taper is made of 13 or 7 delineators, respectively.

For 50 km/h speed zones every second cone or drum may be omitted thus reducing the number of cones or drums and increasing their effective spacing. The Taper Length L must remain unchanged.



The schematic guide for cone and drum spacing in tapers on the following page uses a 0.3 m offset from one marker to the next. The result is that a lane closure taper is usually formed with 13 cones or drums running from the shoulder (edge of lane) to the centreline.

The entire taper length will be used to move traffic over one lane around the Work Area.

Typical Two-Lane Two-Way Termination Tapers are half the length of Transition Tapers and contain half the number of delineators.

The number of delineators is rounded up if the division does not result in a whole number.

If a **Buffer Area** is required, it must be added to the taper length. The additional length should be based on the planned protection device.

The resultant **Buffer Area** lengths are shown in Table 10.2.

Table 10.3 illustrates **New Jersey Barrier Approach Set-Up**.

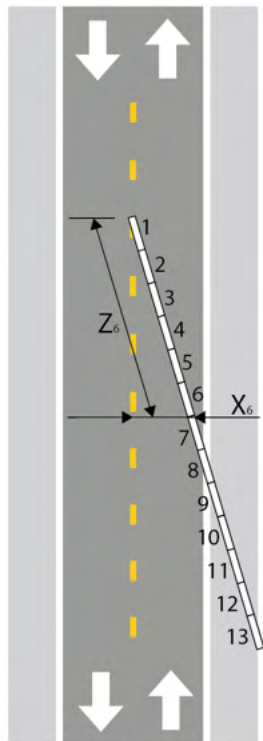
Table 10.2 - Buffer Area Lengths

Symbol	Spacing Description	Collector, Local Highways and Urban/Residential			Arterial and Multi-Lane Highways			
V	Speed Zone (km/h)	50	60-70	80-90	50	60-70	80	90
B	Buffer Area (m)	0	0	30	0	0	50	60

Table 10.3 – New Jersey Barrier Approach Set-Up

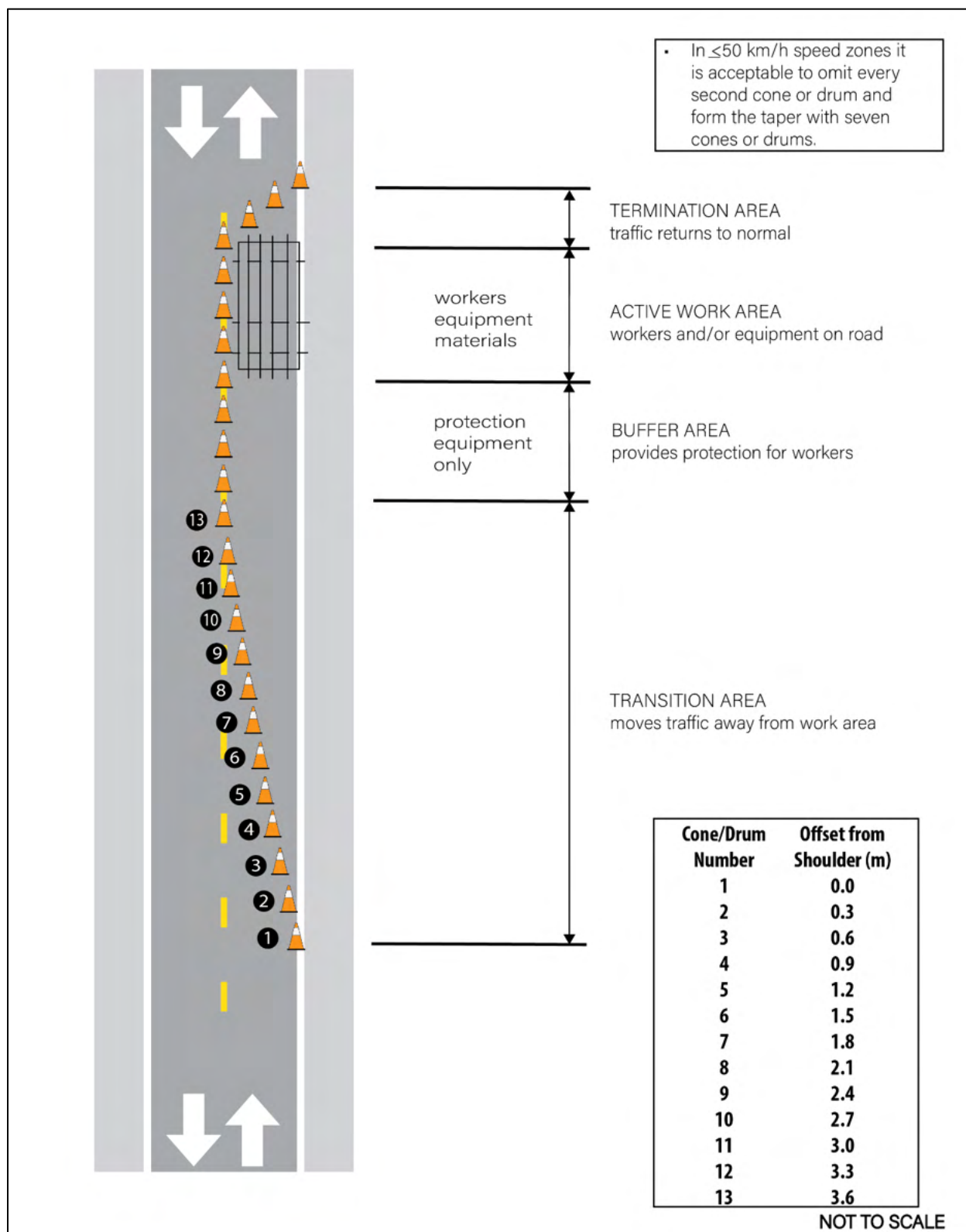
New Jersey Barrier Section # *	Length of Barrier, z (m)	Horizontal Distance from Lane Closure to far end of New Jersey Barrier Section, x (m)
1	2.5	0.4
2	5.0	0.8
3	7.5	1.2
4	10.0	1.6
5	12.5	2.0
6	15.0	2.4
7	17.5	2.8
8	20.0	3.2
9	22.5	3.6
10	25.0	4.0
11	27.5	4.4
12	30.0	4.8
13	32.5	5.2

*When a 2.5m New Jersey Barrier Section is Used

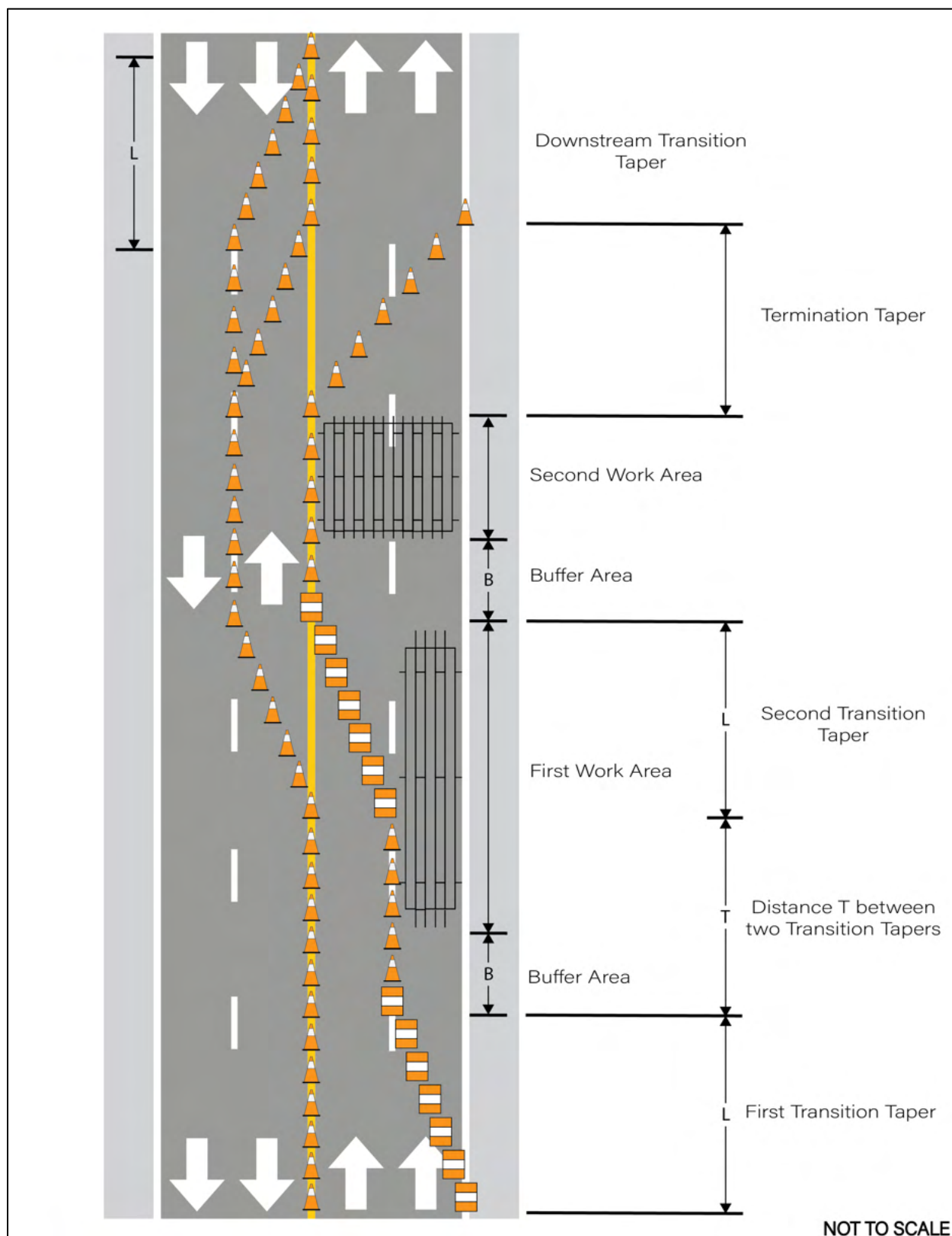


NOT TO SCALE

Cone & Drum Offsets in Transition Area Taper



Taper Length Guidelines Between Two Work Areas



11.0 Temporary Condition Signs

Temporary condition signs have two purposes:

- They warn drivers and pedestrians that highway construction or maintenance activities are being carried out on the road immediately ahead.
- They regulate the passage of drivers and pedestrians past the Work Area.

All temporary condition signs must meet the standards shown in this manual for appearance, size, shape, colour, and level of reflectivity.

Signs Must Be Reflectorized

Temporary condition warning signs must be fully reflectorized to show the same shape and appearance by night as by day. The minimum level of reflectivity for orange sheeting used on temporary condition warning signs is ASTM Type IV (high intensity). The minimum level of reflectivity for white sheeting is ASTM D4956-19 Type IV (High Intensity).

Fluorescent orange sheeting, ASTM Type XI (Diamond Grade or Omnicube) (Reference ASTM D4956-13), **must** be used:

- For the following signs:

TC-1	Construction Ahead
TC-1A	Construction Ahead Advance (with distance tab)
TC-2	Road Work
TC-3	Survey Crew (all sizes)
TC-21	Traffic Control Person (all sizes)
TC-51	Bump
TC-21A(PEI)	Traffic Control Person Ahead
TC-103(PEI)	Construction Zone
TC-114(PEI)	Overhead Utility Work
TC-131(PEI)	TCP Ahead/Be Prepared to Stop
TC-165(PEI)	Road Work Ahead/Be Prepared to Stop

Fluorescent orange sheeting **may** be used:

- For Advanced signs:

TC-115(PEI)	Wet Paint Ahead
TC-132(PEI)	Signal Ahead / Be Prepared to Stop
TC-161(PEI)	Right/Left Lane Closed 1 km
- For all signs in a Special Operation.
- Where conditions suggest its use.

Red-Orange Flags

Signs depicting “human work activity” must display two red-orange flags. These flags and signs must be removed or covered at times when workers are not present. The following signs require red-orange flags:

TC-2	Road Work
TC-3	Survey Crew
TC-21	Traffic Control Person
TC-21A(PEI)	Traffic Control Person (Advance Sign)
TC-114(PEI)	Overhead Utility Work

Standards for Roll-Up Signs

These signs may be used only on Short Duration projects, not on Long Duration projects, unless they are a sign that is not required during periods when workers are not present. All temporary condition warning signs may be a “roll-up” design consisting of a fabric substrata with a reflectorized orange face, mounted on high mount portable bases. “Roll-up” signs must meet ASTM Type VI (Reference ASTM D4956-13).



Standards for Long Duration

Temporary condition warning signs expected to be in place for a long duration period (work over 24 hours) must be mounted on either 4"x4" wood posts or steel posts (telespar). For post mounting, the distances from the road surface to the bottom of the signs are:

- For 90 cm x 90 cm signs, 1.0 m to 2.5 m.
- For smaller signs, such as 75 cm x 75 cm signs, 1.5 m to 2.5 m.

Post mounted signs for long duration work are exempted in the following cases:

- Signs mounted on F-shape Barriers of a similar height need not be post mounted.
- Signs in use in an urban area, where post mounting is impractical, need not be post mounted.

Use of Portable Signs Supports

Temporary condition warning signs expected to be in place for a short duration period (not long duration) may be mounted on portable sign supports placed on or next to the highway shoulder. Portable signs cannot be used during night work.

Regulatory Signs

Regulatory signs used in the Work Areas must conform with signs depicted in the *Province of Prince Edward Island Schedule of Official Highway Signs* published by the Minister of Transportation and Infrastructure under the authority of the *Public Works Act*, the *Highway Traffic Act*, and the *Roads Act* of Prince Edward Island. Authorization for the use of regulatory signs must be obtained from the appropriate Traffic Authority for the street or highway under construction.

Duty to Remove Temporary Signs

All temporary condition warning and regulatory signs must be removed or covered immediately after they no longer apply.

Duty to Install Additional Warning Signs

Uncover or erect additional temporary traffic control warning signs or devices when the work is finished for the day, but roadway conditions have not been returned to normal. This will help to ensure that drivers receive proper warning and notification of conditions when the Work Area is inactive, especially at night.

Duty to Install Permanent Signs

Permanent standard regulatory and warning signs must be in place at the completion of each project. Guide signs and other information signs should be in place at the project's completion. Remove temporary condition signs and devices when permanent signs and devices are in place at the completion of the project.



11.1 Schedule of Signs

The following schedule of temporary condition warning signs has been approved for use in Prince Edward Island. Temporary workplace signs must be of the shape, colour, and minimum dimensions specified, and must bear the message of lettering indicated, and must otherwise comply with these specifications, except as noted in **Section 11.2 Exemptions from Schedule of Signs**.

TC-1	Construction Ahead (Fluorescent Orange)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-1A	Construction Ahead Advance (Fluorescent Orange)	
	Minimum size	120 cm x 120 cm
TC-2	Road Work Ahead (Fluorescent Orange)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-3	Survey Crew (Fluorescent Orange)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
	Minimum size for Survey Crew use only	60 cm x 60 cm
TC-4	Construction Ends	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-5	Lane Closed Ahead (Left or Right)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-5A(PEI)	Lane Closed Ahead Advance (Left or Right)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-5Z(PEI)	Zipper Merge (Left or Right)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 90 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 120 cm
TC-5ZA(PEI)	Zipper Merge Ahead (Left or Right)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	60 cm x 90 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	75 cm x 120 cm



TC-6	Lane Closure Taper	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-10	Detour Ahead	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-10A	Detour Ahead Advance	
	Minimum size	120 cm x 120 cm
TC-11	Detour Direction Markers	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	60 cm x 45 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 60 cm
	When mounted on a barricade	120 cm x 60 cm
TC-13	Road Diversion (Left or Right)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-14	Lane Diversion (Left or Right)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-17(PEI)	Yield to Oncoming Traffic	
	Minimum size	75 cm x 90 cm
TC-18(PEI)	One Lane Operation Ahead	
	Minimum size	75 cm x 75 cm
TC-21	Traffic Control Person (Fluorescent Orange)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
	Minimum size for Survey Crew use only	60 cm x 60 cm
TC-21A(PEI)	Traffic Control Person Ahead (Fluorescent Orange)	
	Minimum size	90 cm x 90 cm
TC-27	Curve Sign (Left or Right)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm



TC-34	Road Narrows	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-34A(PEI)	Road Narrows Ahead	
	Minimum size	90 cm x 90 cm
TC-36S	Distance Tab	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	60 cm x 30 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	75 cm x 40 cm
TC-47	Groove Pavement	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-49	Low Shoulder	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-50	Pavement Ends	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-51	Bump (Fluorescent Orange)	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-54	Truck Entrance (Left or Right)	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-55	Slippery When Wet	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-62	Hazard Marker	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	30 cm x 60 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	30 cm x 90 cm
TC-85	Temporary Remote Control Device	
	Minimum size for <i>Locals and Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm



TC-101(PEI)	High Shoulder	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-102(PEI)	Uneven Lanes	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-103(PEI)	Construction Zone (Fluorescent Orange)	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-104(PEI)	Tar Ahead	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-105(PEI)	Temporary Pavement Marking	
	Minimum size	90 cm x 120 cm
TC-106(PEI)	End Temporary Pavement Marking	
	Minimum size	90 cm x 90 cm
TC-107(PEI)	Traffic Control Signals	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-107A(PEI)	Traffic Control Signals Ahead	
	Minimum size	90 cm x 90 cm
TC-108(PEI)	Flying Stones	
	Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i>	75 cm x 75 cm
	Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	90 cm x 90 cm
TC-112(PEI)	Be Prepared to Stop	
	Minimum size	90 cm x 90 cm
TC-113(PEI)	Road Ends	
	Minimum size	90 cm x 90 cm
TC-114(PEI)	Overhead Utility Work (Fluorescent Orange)	
	Minimum size	75 cm x 75 cm
TC-115(PEI)	Wet Paint Ahead (Yellow or White)	
	Minimum size	240 cm x 120 cm



TC-116(PEI)	Over-Dimensional Load Minimum size	245 cm x 30 cm
TC-117(PEI)	Slow Moving Vehicles Ahead Minimum size	240 cm x 120 cm
TC-118(PEI)	Follow Me Do Not Pass Minimum size	120 cm x 60 cm
TC-131(PEI)	TCP & Be Prepared to Stop (Fluorescent Orange) Minimum size	240 cm x 120 cm
TC-132(PEI)	Signals & Be Prepared to Stop Minimum size	240 cm x 120 cm
TC-141(PEI)	Street Closed Minimum size	90 cm x 90 cm
TC-142(PEI)	Local Traffic Only Minimum size	90 cm x 90 cm
TC-144(PEI)	Sidewalk Closed Minimum size	90 cm x 90 cm
TC-161(PEI)	Right Lane Closed 1 km, Left Lane Closed 1 km Minimum size	180 cm x 90 cm
TC-165(PEI)	Road Work Ahead/Be Prepared to Stop (Fluorescent Orange) Minimum size	180 cm x 90 cm
TC-170(PEI)	Barricade Ahead Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i> Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	75 cm x 75 cm 90 cm x 90 cm
TC-171(PEI)	Speed Fines Double in Work Area Minimum size	120 cm x 120 cm
TC-175(PEI)	Road Closed Minimum size for <i>Locals</i> and <i>Urban/Residential Streets</i> Minimum size for <i>Arterials, Collectors, and Multi-Lane</i>	75 cm x 75 cm 90 cm x 90 cm



11.2 Exemption from Schedule of Signs

The signs included in Table 11.1 are exempted until April 1, 2028, from full compliance with the signs listed in Section 11.1 Schedule of Signs. For an existing sign to be used, it must meet previously approved standards.

Table 11.1 – Exemption Permitted Until April 1, 2028

Sign Number	Sign Name	Exemption Until April 1, 2028
TC-1A	Construction Ahead Advance	Existing approved signs may be used
TC-2	Road Work	Existing approved signs may be used
TC-3	Survey Crew	Existing approved signs may be used
TC-11E(PEI)	Detour Ends	Existing approved signs may be used
TC-17(PEI)	Yield to Oncoming Traffic	Existing approved signs may be used
TC-18(PEI)	One Lane Traffic Operation Ahead	Existing approved signs may be used
TC-21	Traffic Control Person	Existing approved signs may be used
TC-21A(PEI)	Traffic Control Person Ahead	Existing approved signs may be used
TC-36S	Temporary Distance Advisory Tab Sign	Existing approved signs may be used
TC-51	Bump	Existing approved signs may be used
TC-104(PEI)	Tar Ahead	Existing approved signs may be used
TC-105(PEI)	Temporary Pavement Marking	Existing approved signs may be used
TC-106(PEI)	End Temporary Pavement Marking	Existing approved signs may be used
TC-112(PEI)	Be Prepared To Stop	Existing approved signs may be used
TC-113(PEI)	Road Ends	Existing approved signs may be used
TC-114(PEI)	Overhead Utility Work	Existing approved signs may be used
TC-117(PEI)	Slow Moving Vehicles Ahead	Existing approved signs may be used
TC-118(PEI)	Follow Me Do Not Pass	Existing approved signs may be used
TC-131(PEI)	TCP Ahead/Be Prepared to Stop	Existing approved signs may be used
TC-141(PEI)	Street Closed	Existing approved signs may be used
TC-142(PEI)	Local Traffic Only	Existing approved signs may be used
TC-144(PEI)	Sidewalk Closed	Existing approved signs may be used
TC-161(PEI)	Right or Left Lane Closed 1km	Existing approved signs may be used
TC-165(PEI)	Road Work Ahead/Be Prepared to Stop	Existing approved signs may be used
TC-171(PEI)	Speed Fines Double in Work Areas	Existing approved signs may be used
TC-175(PEI)	Road Closed	Existing approved signs may be used



11.3 Sign Descriptions



TC-1

TC-1 Construction Ahead (Fluorescent Orange) is used to provide advance warning of a major work area. This sign is generally used on long-term construction projects where drivers may encounter activities.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



TC-1A

TC-1A Construction Ahead (with distance) (Fluorescent Orange) is used to provide additional advance warning of construction projects. If lane closures are expected to create long queues of stopped traffic the sign is repeated at 500 m intervals to ensure that there are always two signs displayed in advance of the queue. The distance shown on the sign is to be changed to show the actual distance to the work area by placing overlays or tabs in 500 m increments on the face of the sign.

Minimum Size 120 cm x 120 cm



TC-2

TC-2 Road Work (Fluorescent Orange) is used to indicate the start of a construction zone and that work area activities are occurring on or near the travelled portion of the road and the workers or equipment may be at risk or may pose a risk to the driver.

TC-2 must not be displayed when work is not in progress.

TC-2 must display two red-orange flags positioned on the top of the sign.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



TC-3

TC-3 Survey Crew (Fluorescent Orange) is used to indicate that a survey crew is working on or near the travelled portion of the road.

TC-3 must not be displayed when work is not in progress.

TC-3 should not be used when the crew is part of a larger work force as the work area would be covered by **TC-2**.

TC-3 must display two red-orange flags mounted on the top of the sign.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets** 75 cm x 75 cm

for **Survey Crew use only** 60 cm x 60 cm





TC-4

TC-4 Construction Ends is used to indicate to drivers that they have reached the end of a work area and that they can expect normal roadway conditions on the remainder of the roadway.

TC-4 is optional for short and very short duration work and required for long duration work. However, **TC-4 must** be used when **TC-171 (PEI)** is present, to be enforceable.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



TC-5R

TC-5 Lane Closed Ahead is used to indicate that a lane is closed for road work.

TC-5 must only be used on a multi-lane highway or street or on a highway or street with a multi-lane approach to the work area. The appropriate **L** (Left Lane) or **R** (Right Lane) version of the sign must be used.

Where lane closures involve the closure of multiple lanes, **TC-5A (PEI)** is repeated in advance for the Taper for each successive lane closure.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



TC-5L

TC-5A (PEI) Lane Closed Ahead Advance is used to give advance warning of lane closure(s) on Arterial Highways and other roads and streets where advance warning is deemed appropriate. The appropriate **L** (Left Lane) or **R** (Right Lane) version of the sign must be used.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



TC-5RA (PEI)



TC-5LA (PEI)





TC-5ZR (PEI)

TC-5Z (PEI) Zipper Merge is used to indicate that traffic will be required to zipper merge when the lane is closed for road work.

TC-5Z (PEI) must only be used on a multi-lane highway or street or on a highway or street with a multi-lane approach to the work area. The appropriate **L** (Left Lane) or **R** (Right Lane) version of the sign must be used.

for **Arterials, Collectors, and Multi-Lane** 90 cm x 120 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 90 cm



TC-5ZA (PEI)

TC-5ZA (PEI) Zipper Merge Ahead is used to give advance warning that traffic will be required to zipper merge when the lane is closed for road work.

TC-5ZA (PEI) must only be used on a multi-lane highway or street or on a highway or street with a multi-lane approach to the work area. The appropriate **L** (Left Lane) or **R** (Right Lane) version of the sign must be used.

for **Arterials, Collectors, and Multi-Lane** 75 cm x 120 cm
for **Locals, and Urban/Residential Streets**..... 60 cm x 90 cm



TC-6

TC-6 Lane Closure Taper is erected at the beginning of a taper on **Multi-Lane** highways as a final warning to drivers that a lane change is necessary.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-10

TC-10 Detour Ahead is used to indicate that traffic will be required to follow another road to detour around the work areas.

TC-10 is erected in advance of detour on all streets and highways.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-10A

TC-10A Detour Ahead (with distance) may be erected 1 kilometre in advance of all detours on highways with high approach speeds or high traffic volumes.

Minimum Size 120 cm x 120 cm





TC-11E (PEI)



TC-11



TC-11L 45(PEI)



TC-11R 45(PEI)



TC-11L



TC-11R



TC-11L 90(PEI)



TC-11R 90(PEI)



TC-11 RL 90(PEI)

TC-11 Detour Direction Markers are used as part of a **Barricade Unit** when the detour or temporary connector intersects the closed highway at or near 90°.

TC-11 should be used in conjunction with appropriate route markers or street name signs to guide motorists through intersections along a detour route.

TC-11 is available in Detour Ends (TC-11E (PEI)), Straight Through (TC-11), Right Turn (TC-11R), Left Turn (TC-11L), Right Turn 45 (TC-11R 45 (PEI)), and Left Turn 45 (TC-11L 45 (PEI)). These TC-11 signs are suitable for stand-alone installation or barricade mounting. The appropriate arrow must be used.

TC-11L 90 (PEI) and TC-11R 90 (PEI) are suitable for use on a barricade where drivers will be expected to make a 90 degree turn at the barricade in the direction of the arrow. TC-11RL (PEI) is used on a barricade for 90 degree turns in either direction.

for **Arterials, Collectors, and Multi-Lane**.....90 cm x 60 cm
for **Locals, and Urban/Residential Streets** ..60 cm x 45 cm
When mounted on a barricade.....120 cm x 60 cm



TC-13R

TC-13 Road Diversion is used to indicate a brief right “TC-13R” or left “TC-13L” change in the road alignment, but with no reduction in the number of lanes.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane**90 cm x 90 cm
for **Locals, and Urban/Residential Streets**.....75 cm x 75 cm



TC-14R

TC-14 Lane Diversion is used to indicate a brief right “TC-14R” or left “TC-14L” change in alignment of two lanes, but with no reduction in the number of lanes.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane**90 cm x 90 cm
for **Locals, and Urban/Residential Streets**.....75 cm x 75 cm





TC-17 (PEI)

TC-17 (PEI) Yield to Oncoming Traffic is used to indicate to a driver that their lane is closed for road work and that traffic through the work area is self-regulating. Approaching drivers are warned that they must yield to traffic approaching, already in the one-lane section, and must not proceed until the lane is clear and it is safe to do so.

Minimum Size 75 cm x 90 cm



TC-18 (PEI)

TC-18 (PEI) One Lane Traffic Operation Ahead is used to indicate to a driver that they are approaching a one lane section in which traffic is self-regulating with no Traffic Control Persons present.

Minimum Size 75 cm x 75 cm



TC-21

TC-21 Traffic Control Person (Fluorescent Orange) is used to indicate the presence of Traffic Control Persons directing traffic using a stop/slow paddle. Motorists are warned that they must obey their directions.

TC-21 is only displayed when Traffic Control Persons are actively directing traffic otherwise, it must be removed or covered.

TC-21 must display two red-orange flags positioned on the top of the sign.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets** 75 cm x 75 cm

for **Survey Crew use only** 60 cm x 60 cm



TC-21A (PEI)

TC-21A (PEI) Traffic Control Person Ahead (Fluorescent Orange) is used to provide additional advance warning of the presence of Traffic Control Persons.

TC-21A (PEI) must also display two red-orange flags positioned on the top of the signs.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets** 75 cm x 75 cm





TC-27R

TC-27R (right) or TC-27L (left) Curve Sign is used to indicate a change in the road alignment in the direction of the arrow. Motorists are warned to adjust their path for the upcoming curve.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-27L



TC-34

TC-34 Road Narrow is used to indicate a reduction in the width of the road but not a reduction in the number of lanes. Motorists are warned to expect a narrowing of their driving lane or reduction in the shoulder clearance.

TC-34 must be displayed at all times when there is a reduction in the roadway width even when the work area is not active.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-34A (PEI)

TC-34A (PEI) Road Narrows Ahead is used to provide additional advance warning of a reduction in the roadway width.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-36S

TC-36S Temporary Distance Advisory (NEXT x km) Tab Sign is used to indicate the length of road that a condition exists.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 75 cm x 40 cm

for **Locals, and Urban/Residential Streets**..... 60 cm x 30 cm





TC-47

TC-47 Grooved Pavement is used to indicate road surface conditions in a work area which require extra care and attention from bicyclists and motorcyclists.

TC-47 must be erected in advance of a section of roadway where construction procedures such as milling, grinding, or cold planing create a surface condition which may affect the control and stability of motorcycles and similar vehicles.

TC-47 must remain in place until resurfacing is completed.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-49

TC-49 Low Shoulder is used to indicate a section of road that has an appreciable drop in elevation between the travel lane and the shoulder caused by construction activities.

TC-49 must be erected in advance of and every 1 kilometre throughout a section of roadway where construction procedures have created a “low shoulder.”

TC-49 must remain in place until the roadway is restored to its normal condition.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-50

TC-50 Pavement Ends is used when pavement ends as a result of construction activities.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm





TC-51

TC-51 Bump (Fluorescent Orange) is used to indicate a change in the profile of the road that is sufficiently abrupt that it will cause discomfort to passengers or a deflection of the vehicle from its course.

TC-51 must be erected in advance of every isolated “bump” caused by construction procedures.

TC-51 may also be used to indicate that a section of road has numerous “bumps” by using the supplementary tab sign **TC-36S** to indicate the length of the rough section.

TC-51 must remain in place until the roadway is restored to its normal condition.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-54R

TC-54 Truck Entrance is used to indicate a location where trucks are entering, exiting, or crossing the road where there is no other construction activity in the area, such as entrances to gravel pits or asphalt mix plants.

TC-54 should not be used at locations where construction or paving is actually in progress as this information should be conveyed by **TC-2**.

TC-54 is only displayed when trucks are working, otherwise the sign must be removed or covered.

TC-54 is available in R (Right Entrance), and L (Left Entrance). The appropriate sign must be used.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-54L



TC-55

TC-55 Slippery When Wet is used when the driving surface has an unexpected low coefficient of friction or experiences water ponding as a result of construction activity.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm





TC-62

TC-62 Hazard Marker is used to indicate a hazard on the edge of a travel lane or may be placed at the edge of a lane to warn of a hazard in the lane. Either size may be used. Hazard markers are not required to be post mounted after 3 days.

Minimum Size:

for 100 metre spacing..... 30 cm x 90 cm

for 50 metre spacing..... 30 cm x 60 cm



TC-85

TC-85 Temporary Remote Control Device is used to indicate the presence of an AFAD directing traffic using red and amber signal displays. Motorists are warned that they must obey the signals.

TC-85 must only be used in 70 km/h speed zones or less.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-101 (PEI)

TC-101 (PEI) High Shoulder is used to indicate a section of road that has an appreciable increase in elevation between the travel lane and the shoulder due to construction activities.

TC-101 (PEI) must be erected in advance of and every 1 kilometre throughout a section of roadway where construction procedures have created a “high shoulder.”

TC-101 (PEI) must remain in place until the roadway is restored to its normal condition.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-102 (PEI)

TC-102 (PEI) Uneven Lanes is used to indicate a section of road that has adjacent lanes at different elevations when cold planing or resurfacing operations have not reached the same point in all lanes by the end of the workday.

TC-102 (PEI) must be erected in advance of and every 1 kilometre throughout a section of roadway where construction procedures have created “uneven lanes.”

TC-102 (PEI) must remain in place until the roadway is restored to its normal condition.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm





TC-103 (PEI)

TC-103 (PEI) Construction Zone (Fluorescent Orange) is used in advance of a construction zone as a general warning sign when a specific warning sign is not required and to remind drivers that they are in an area where they will encounter construction activities. It also advises drivers that although they may be in an area where construction activities have temporarily stopped, and the roadway has not been returned to normal operating conditions.

TC-103 (PEI) must be used for Long Duration Work and, when used, always remain in place until the roadway is restored to its normal condition.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



TC-104 (PEI)

TC-104 (PEI) Tar Ahead is used to indicate a section of road that has been primed or tack coated for resurfacing. Motorists are advised of the possibility of temporary pavement slipperiness or objectionable splashing.

TC-104 (PEI) must remain in place until the roadway is restored to its normal condition.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



TC-105 (PEI)

TC-105 (PEI) Temporary Pavement Marking is used to indicate a section of highway that has been recently resurfaced and that does not have permanent centreline markings.

TC-105 (PEI) should be erected 300 m in advance of the beginning of a temporarily marked section of highway.

TC-105 (PEI) should remain in place until the permanent centreline has been painted.

Minimum Size 90 cm x 120 cm



TC-106 (PEI)

TC-106 (PEI) End Temporary Pavement Marking is used to indicate a section of highway that has been recently resurfaced that does not have permanent centreline markings.

TC-106 (PEI) may be placed at the end of a temporary marked section.

TC-106 (PEI) should remain in place until the permanent centreline has been painted.

Minimum Size 90 cm x 90 cm





TC-107 (PEI)

TC-107(PEI) Traffic Control Signals is used to indicate the presence of traffic control signals directing traffic using standard red, amber, and green signal displays. Motorists are warned that they must obey the signals.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-107A (PEI)

TC-107A (PEI) Traffic Control Signals Ahead is used to provide additional advance warning of the presence of traffic control signals.

TC-107A (PEI) may also be combined with **TC-112 (PEI)** to provide additional advance warning of a work area.

Minimum Size 90 cm x 90 cm



TC-108 (PEI)

TC-108 (PEI) Flying Stones is used to indicate the presence of loose stone chips on the roadway as the result of recent chip seal resurfacing operations.

TC-108 (PEI) must be erected in advance of the resurfaced roadway section with loose stone chips.

TC-108 (PEI) must remain in place until the roadway is restored to its normal condition.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm

for **Locals, and Urban/Residential Streets**..... 75 cm x 75 cm



TC-112 (PEI)

TC-112 (PEI) Be Prepared to Stop is used as part of the work area signing for a lane closure on low volume urban streets when Traffic Control Persons are not used to direct traffic. It must be used on the approach to the closed lane to advise that they must give priority to oncoming traffic.

TC-112 (PEI) is also combined with **TC-21** or **TC-107A (PEI)** to provide additional advance warning of a work area.

Minimum Size 90 cm x 90 cm





TC-113 (PEI)

TC-113 (PEI) Road Ends is used to indicate that the road has been closed to permit construction or maintenance operations.

TC-113 (PEI) must be used on rural two-lane highways and must be erected in advance of a Barricade.

Minimum Size 90 cm x 90 cm



TC-114 (PEI)

TC-114 (PEI) Overhead Utility Work (Fluorescent Orange) is used to indicate the start of a construction zone and that overhead work activities are occurring over the roadway where workers or equipment may be at risk or may pose a risk to the driver. Drivers of high vehicles are warned that a bucket trucks boom may be over part of the travel lane or that there may be low overhead wires.

TC-114 (PEI) should replace **TC-2** in all utility work areas that consist of overhead line work. If the work activity does not involve overhead work, **TC-2** should be used. If the work activity involves an excavation, **TC-2** must be used.

TC-114 (PEI) must not be displayed when work is not in progress.

TC-114 (PEI) must display two red-orange flags mounted on the top of the sign.

Minimum Size 75 cm x 75 cm



TC-115Y (PEI)

TC-115 (PEI) Wet Paint Ahead is used to indicate that line painting is occurring ahead of the trail vehicle displaying the **TC-115 (PEI)** and that both the trail vehicle and the line paint truck should be passed with caution.

TC-115 (PEI) is available in **Y** (Yellow Paint) and **W** (White Paint). The appropriate sign must be used.

TC-115 (PEI) must be attached to the trail vehicle in a manner that does not obscure any of the vehicles warning lights or taillights.

TC-115 (PEI) must be removed or covered when the trail vehicle is travelling but line painting is not being carried out.

Minimum Size 240 cm x 120 cm





TC-116 (PEI)

TC-116 (PEI) Over Dimensional Load may be used to indicate that a work vehicle is encroaching upon an adjacent lane. Drivers are warned to exercise care when meeting or overtaking the vehicle.

The lead work vehicle in a work vehicle “train” may display **TC-116 (PEI)** on both the front and rear. A trail vehicle may display **TC-116 (PEI)** on the rear only.

Minimum Size 245 cm x 30 cm



TC-117 (PEI)

TC-117 (PEI) Slow Moving Vehicles Ahead is used to warn drivers of the possible presence of slow moving construction project trucks that have entered the highway and require some distance to reach a reasonable highway speed. When required **TC-117 (PEI)** must be erected 400 m in advance of the entrance used by the trucks.

TC-54 is often used with **TC-117 (PEI)**.

Minimum Size 240 cm x 120 cm



TC-118 (PEI)

TC-118 (PEI) Follow Me Do Not Pass is used to advise drivers that a pilot vehicle will lead traffic through a construction project and that the pilot vehicle should be followed.

TC-118 (PEI) must be displayed on the rear of the pilot vehicle.

Minimum Size 120 cm x 60 cm



TC-131 (PEI)

TC-131 (PEI) TCP Ahead/Be Prepared to Stop (Fluorescent Orange) is used to warn drivers of the presence of a lane closure and the possibility of a queue of stopped vehicles extending back from the closure. Drivers are expected to pay increased attention and reduce their speed.

Minimum Size 240 cm x 120 cm



TC-132 (PEI)

TC-132 (PEI) Signals Ahead is used to warn drivers of the presence of a lane closure and the possibility of a queue of stopped vehicles extending back from the closure. Drivers are expected to pay increased attention and reduce their speed.

Minimum Size 240 cm x 120 cm





TC-141 (PEI)

TC-141 (PEI) Street Closed is used as an acceptable sign for Light Barricade TC-64A to warn drivers that an Urban/Residential Street is closed to through traffic.

TC-141 (PEI) must only be displayed in combination with a Barricade.

Minimum Size 90 cm x 90 cm



TC-142 (PEI)

TC-142 (PEI) Local Traffic Only is used as an acceptable sign for Light Barricade TC-64A to warn drivers that an Urban/Residential Street is closed to through traffic but that traffic with a destination on the closed portion of the street is permitted to use the street.

TC-142 (PEI) must only be displayed in combination with a Barricade.

Minimum Size 90 cm x 90 cm



TC-144 (PEI)

TC-144 (PEI) Sidewalk Closed is used to advise pedestrians that a sidewalk is closed and to continue their journey they must cross the street and use the sidewalk on the other side.

Minimum Size 90 cm x 90 cm



TC-161R (PEI)

TC-161 (PEI) Right Lane Closed 1 km or Left Lane Closed 1 km must be mounted on Trail Vehicles to advise motorists that a lane is closed due to a Mobile Intermittent Operation and that a lane change is required. The appropriate **R** (Right Lane Closed), or **L** (Left Lane Closed) version of the sign must be used.

Minimum Size 180 cm x 90 cm





TC-165 (PEI)

TC-165 (PEI) Road Work Ahead/Be Prepared to Stop (Fluorescent Orange) must be mounted on Trail Vehicles when work is being carried out in the traffic lane using an Observer.

Minimum Size 180 cm x 90 cm



TC-170 (PEI)

TC-170 (PEI) Barricade Ahead is used in advance of a barricade used for construction activities.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



TC-171 (PEI)

TC-171 (PEI) Speed Fined Double in Work Areas issued to notify motorists that between the **TC-2** and **TC-4** signs and between the **TC-114 (PEI)** and **TC-4** signs, fines for speeding are doubled.

TC-171(PEI) signs must be positioned in advance of the other Temporary Condition signs.

The combination of **TC-171 (PEI)**, **TC-2** and **TC-4**, or **TC-171 (PEI)**, **TC-114 (PEI)** and **TC-4** signs must not be displayed when workplaces are inactive.

TC-171 (PEI) and **TC-4** are optional for short and very short duration work and required for long duration work. However, if **TC-171(PEI)** is present at any work area, **TC-4** must be used.

Minimum Size 120 cm x 120 cm



TC-175 (PEI)

TC-175 (PEI) Road Closed is used to warn drivers that the road is closed as a result of construction activity.

Minimum Size:

for **Arterials, Collectors, and Multi-Lane** 90 cm x 90 cm
for **Locals, and Urban/Residential Streets** 75 cm x 75 cm



11.4 Regulatory Sign Description



RA-1

RA-1 Stop Sign indicates to drivers that they must stop their vehicles completely before entering the intersection.

Minimum Size..... 60 cm x 60 cm



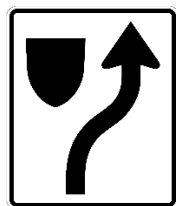
RB-11



RB-12

RB-11 and RB-12 Turn Prohibited Sign (R and L) indicates to drivers that they must not turn in the direction of the arrow.

Minimum Size..... 60 cm x 60 cm



RB-25

RB-25 Keep Right Sign indicates that traffic must pass to the right of obstructions.

Minimum Size..... 60 cm x 75 cm



RB-31

RB-31 Passing Prohibited Sign indicates to drivers that they must not overtake another vehicle.

Minimum Size..... 60 cm x 60 cm



RB-34

RB-34 Keep Right Except to Pass Sign indicates to drivers that they must use the right lane, except when they are passing a slower vehicle.

Minimum Size..... 60 cm x 75 cm



RC-4R

RC-4 Stop Line Sign indicates the point at which drivers approaching a traffic control device must stop their vehicles.

The RC-4R (right), or the RC-4L (left) version should be used depending on whether the sign is erected on the left or the right side of the road.

Minimum Size..... 90 cm x 120 cm



12.0 Temporary Condition Devices

Temporary condition devices have three functions for drivers and pedestrians:

- They warn them that highway construction or maintenance is being carried out on the road immediately ahead.
- They advise them of appropriate response.
- They guide their passage through the Work Area.

All temporary condition devices must meet the standards shown in this *Manual* for appearance, size, shape, colour, and level of reflectivity and luminance.

Company names or logos may be placed on the back or underside of Temporary Condition Devices. The maximum size of a name or logo is 1000 cm² (on the sides of cones, drums, and high delineators).

All temporary condition devices must be removed or covered immediately after they are no longer applicable.

The following temporary condition devices have been approved for use in Prince Edward Island:

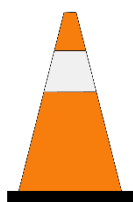
- 12.1 Delineation Devices
- 12.2 Warning Devices
- 12.3 Guidance Devices
- 12.4 Protection Devices
- 12.5 Regulatory Devices
- 12.6 Automated Flagger Assistance Device

Regulatory devices used to regulate and direct traffic through Work Areas must meet the standards specified by the Minister of Transportation and Infrastructure. Regulatory devices must be authorized by the appropriate Traffic Authority for the street or highway under consideration before being displayed. The unauthorized use of regulatory devices is potentially dangerous to traffic and workers and is a punishable and potentially liable offence.



12.1 Delineation Devices

TC-61 Traffic Cones



450 mm
and
700 mm tall

Use – Traffic Cones may be used to delineate Work Areas and tapers for Transition and Termination Areas.

Prohibited Use – Never use 450 mm Traffic Cones for night work, even if they have reflective material.

Night Use – Traffic Cones used at night must be 700 mm cones and have a 100 mm reflectorized white stripe 100 mm from the top of the cone. The white stripe must be reflectorized with ASTM Type III (high intensity) material.

Weighted Base – Traffic Cones must have a weighted base sufficient to keep the device upright and in position during its expected use. The weight must not present a hazard if the cone is struck by a vehicle.

TC-62 Hazard Markers



300 mm x 600 mm
Alternating three orange stripes with 2 black stripes.

300 mm x 900 mm
Alternating five orange stripes with 4 black stripes.

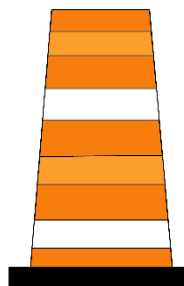
Use – Hazard Markers must be used to warn drivers of hazards on the edge of the travel lane.

Markings – Hazard Markers must be marked with minimum 100 mm reflectorized (ASTM Type III –

high intensity) horizontal orange stripes alternating with minimum 100 mm non-reflectorized horizontal black stripes.

Spacing – Maximum spacing for 300 mm x 600 mm Hazard Markers is 50 metres. Maximum spacing for 300 mm x 900 mm Hazard Markers is 100 metres.

TC-63 Drums



900 mm tall

Use – Drums may be used to delineate Work Areas, and Transition Area and Termination Area tapers. Drums must be used to delineate excavations.

Markings – Drums must be marked with 100 mm reflectorized horizontal orange stripes alternating with 100 mm reflectorized horizontal white stripes. The stripes must be reflectorized with ASTM Type III (high intensity), or brighter, material.

Prohibited Marking – Drums marked with orange and black stripes are prohibited in Prince Edward Island.

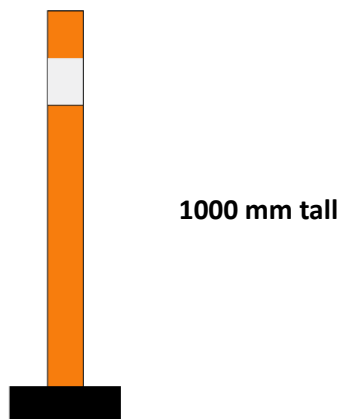
Size – Drums must have minimum dimensions of 550 mm diameter at the base, tapering to 330 mm diameter at the top, and be 900 mm in height.

Weighted Base – Drums must have a weighted base sufficient to keep the drum upright and in position during its expected use. The weight



must not present a hazard if the drum is struck by a vehicle. Weights must never be placed on top of the drum.

High Delineators



Use – High Delineators may be used to delineate Work Areas, and Transition Area and Termination Area tapers. High Delineators may be substituted for Traffic Cones.

Prohibited Use – High Delineators must not be used in place of Drums for excavation work.

Size – High Delineators must be a minimum 1000 mm in height.

Markings – High Delineators must have a 150 mm reflectorized white stripe 75 mm from the top of the cone. The white stripe must be reflectorized with ASTM Type III (high intensity) or brighter material.

Weighted Base – High Delineators must have a weighted base sufficient to keep the device upright and in position during normal use. The weight must not prevent a hazard if the Delineator is struck by a vehicle.

Pavement Marking Tape or Retro Reflector Pavement Markers

Use – Pavement Marking Tape or Retro Reflector Pavement Markers must be used for temporary pavement line markings.

Colour – Whether Tape or Markers are used, centreline marking must be yellow and lane line marking must be white.

Tape Length and Spacing – When Pavement Marking Tape is used, it must consist of 30 cm strips of reflective tape at 20 m intervals.

Retro Reflector Spacing – When Retro Reflectors Pavement Markers are used, centreline markers must be installed at 10 m intervals and lane line markers at 20 m intervals.

Longitudinal Barrier Retro Reflectors

100 mm x 200 mm

Use – Retro Reflectors must be placed on the top, or within 10 cm of the top, of Longitudinal Barrier sections to provide nighttime guidance.

Colour – The Retro Reflectors must consist of yellow reflective material if the barrier is on the centreline of the roadway, and white reflective material if the barrier is on the edge of line of the roadway.

Reflectivity – The Retro Reflectors must meet the specifications for ASTM Type III (high intensity), or brighter material.

Spacing – Retro Reflectors spacing for a temporary work site is significantly less than that recommended for a permanent barrier installation. At temporary work sites the spacing regulations for Traffic Cones and Drums (Spacing D in Table 10.1) should be followed for Longitudinal Barrier Retro Reflectors, with the further stipulation that five Retro Reflectors always be visible to a driver on horizontal curves. This may require a further reduction in spacing on the entrance and exit to the curve, as well as on the curve itself.



12.2 Warning Devices

Flags (on signs)

Use – Two red-orange flags must be displayed on all signs depicting “human work activity,” except TC-131 (PEI) and TC-165 (PEI).

Prohibited Use – Flags must not be used alone as warning devices or used with any other devices or signs except “human work activity” signs.

Description – Flags must consist of a bright red-orange cloth or cloth-like material securely mounted on a short staff so that the bottom of the flag hangs just above the sign.

Size – Flags must be a minimum of 300 mm x 300 mm.

Variable Message Signs

Description – Variable Message Signs are signs capable of displaying a number of fixed messages displayed one at a time. The messages can be changed manually, by remote control, or by automatic control.

Use – Variable Message Signs warn drivers of work operations that are outside of their expectations, such as lane closures associated with Mobile Operations and Special Operations.

Variable Message Sign messages must provide drivers with a legible, concise message directly relevant to the roadway condition they are approaching.

Flashing Amber Light 360°

Description – Flashing Amber Light 360° is a light that emits an amber flash pattern visible from 360° around the light for a minimum of 300 metres during daylight hours.

Use – Flashing Amber Light 360° must be mounted on all trucks and equipment used in a Temporary Work Area to provide a warning of their presence.

Position – Flashing Amber Light 360° are usually mounted on the roof of the cab of trucks and other equipment. However, their light must be visible from 360° around the equipment which may necessitate a different mounting location or the use of more than one light.

TC-8 (PEI) Flashing Light Bar (Minbar)

55 cm

Description Flashing Light Bars must be vehicle mounted. They must be a minimum of 55 cm in length and mounted a minimum of 2.2 m from the pavement to centreline of the Bar.

Use – Flashing Light Bars may be used as an alternative to Flashing Light Units in some applications.

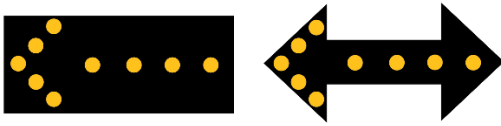
Approved Displays – Flashing Light Bars contain a minimum of two 55-watt flashing halogen lights and an internal reflector mirror that creates the appearance of a “double-flash” with every rotation of the lights.

Position – Flashing Light Bars must be positioned to obtain optimum driver visibility.

Flash Rate – Flashing Light Bars must maintain a flash rate of 30 flashes per minute.



TC-9 (PEI) FLU Flashing Light Unit



145 cm x 60 cm

Description – Flashing Light Units may be vehicle or trailer mounted. They must be a minimum of 145 cm x 60 cm and be mounted a minimum of 2.2 m from the pavement to the centreline of the unit when it is in its upright position.

Approved Displays – Flashing Light Units have a matrix of lights capable of flashing a horizontal bar of lights (Bar Mode) or a pattern of lights forming a directional arrow (Arrow Mode). The approved displays are:

- Left Arrow (TC-9L (PEI))
- Right Arrow (TC-9R (PEI))
- Left and Right Arrow (TC-9LR (PEI))
- Warning Bar (TC-9B (PEI))

The display must consist of a minimum of:

- Six lighted indications in Warning Bar Mode.
- Nine lighted indications in a Left Arrow or Right Arrow mode.
- Twelve lighted indications in Left and Right Arrow mode.

Night Operation – The intensity of the display must be reduced during night operations.

Prohibited Displays – Displays, such as sequential arrow or four corner warning lights, are prohibited.

Use – The arrow modes must be displayed only on Multi-Lane highways and must indicate to an approaching driver that the lane occupied by the Flashing Light Unit is closed and that a lane change is required. The direction of the arrow

must indicate the direction of the required lane change.

Position – Flashing Light Units must be positioned to obtain optimum driver visibility.

Truck mounted Flashing Light Units may be positioned in the Buffer Area in advance of the Work Area.

Trailer mounted Flashing Light Units may be positioned in either the Buffer Area or within the second half of the Approach Taper in the Transition Area, which means the half closer to the Work Area.

Flash Rate – Flashing Light Units must maintain a flash rate of 30 flashes per minute.

Bulbs – Flashing Light Units using 35-watt incandescent bulbs are the standard unit against which alternate bulbs and power sources must be measured. Units using halogen bulbs, solar powered units using low wattage bulbs, and units using light emitting diodes (LEDs) must maintain the same apparent flash rate, brightness, and angularity as the 35-watt incandescent bulb units.

Trail Vehicle

Use – A Trail Vehicle is used to “trail” a Mobile Operation to provide advance warning to traffic overtaking the operation.

Trail Vehicles are to operate on the shoulder as much as possible with limited encroachment on the travel lane.

Prohibited Use – A Trail Vehicle must not carry passengers.

Description – Trail Vehicles should be standard pick-up size and must be equipped with



appropriate advance signs and a Flashing Light Bar or a Flashing Light Unit.

Operators – Operators of Trail Vehicles must receive training for their duties and must remain in constant radio contact with the operators of other Trail Vehicles and Work Vehicles.

Operators of Trail Vehicles must remain an established distance between their vehicle and the Work Vehicle. The distance will depend upon the type of highway, the prevailing highway speed, and the number of Trail Vehicles used in the operation.



12.3 Guidance Devices

Pilot Vehicles

Description – A Pilot Vehicle is used to lead drivers through a Work Area. A Pilot Vehicle must prominently display sign TC-118(PEI) (Follow Me Do Not Pass) on the rear of the vehicle and a 360° Flashing Amber Light or Flashing Light Bar or Flashing Light Unit in *Bar* mode.

TCPs Needed – A Pilot Vehicle is not a substitute for Traffic Control Persons who continue to be required to stop and hold traffic at each end of the job while awaiting the return of the Pilot Vehicle.

Cones Needed – Traffic Cones or Drums are generally required to separate the edge of the Work Area from the adjacent traffic lanes for the protection of both motorists and workers.

This requirement is difficult to apply during some resurfacing operations. If the road structure is narrow, as on some older highways with 6 metres

of pavement, there is not enough width to place Traffic Cones without forcing traffic onto the (possibly low) shoulder.

Some resurfacing operations (particularly double spreader operations) create rather complex vehicle paths around the spreaders. These are difficult to keep delineated as the operation progresses.

In these instances, Pilot Vehicles may be operated without using Traffic Cones if:

- The operator of the Pilot Vehicle gives suitable warning when approaching the Active Work Area, **and**
- All workers physically on the road (not on machinery) step off the roadway until the convoy passes.



12.4 Protection Devices

TC-64 Barricades

64A Light Barricade

64B Heavy Barricade

64C Heavy Barricade

Use – Barricades may be used when it is necessary to close roads or streets at, or in advance of, the Work Area. Light Barricades may also be used to close shoulders at, or in advance of, the Work Area.

Prohibited Use – Barricades should not:

- Be used as delineation devices.
- Be located in the Buffer Area.
- Weights must never be placed on top of Barricades.

Location – Barricades should be located at, or in advance of, the Work Area (but not in the Buffer Area), to act as a physical barrier between motorists and the Work Area.

Position – Barricades should be positioned at an approximate angle of 90° to the traffic lane to display the largest target area to the driver.

TC-64A Light Barricades may be used to close a Work Area for a short period of time. They are usually constructed of lightweight material and mounted on 'saw-horse' type supports so that they can be easily relocated. Light Barricade rails must have minimum dimensions of 2.4 m length and 150 mm width, with a mounting height of 900 mm. Light Barricades used to close narrow shoulders may be shorter.



Light Barricades rails, as illustrated, must be marked with 160 mm vertical orange stripes reflectorized with ASTM Type III (high intensity)

sheeting alternating with 160 mm non-reflectorized vertical black stripes.

TC-64B and TC64C Heavy Barricades are used to close a road or Work Area for an extended period of time. Their supports may consist of posts set in the ground or posts set on weighted bases. Heavy Barricades must have a minimum of two rails, as illustrated below, with minimum dimensions of 2.4 m length and 600 mm width. The space between the rails must be a minimum of 400 mm and may be used to hold appropriate Temporary Condition signs. The mounting height to the top of the barricade must be a minimum of 2.0 m.

The **TC-64B Heavy Barricade** is used when it is intended that no directional information be given to an approaching driver. It must have a minimum of two rails with alternate 220 mm orange stripes reflectorized with ASTM Type III (high intensity) sheeting and 220 mm non-reflectORIZED black vertical stripes.



The **TC-64C Heavy Barricade** must be constructed so that the barricade sections point towards the detour to indicate directional information (right illustrated below) to an approaching driver. The TC-64C must have a minimum of two rails, both having alternating 240 mm orange stripes reflectorized with ASTM III (high intensity) sheeting and 240 mm non-reflectorized black stripes in a chevron pattern.

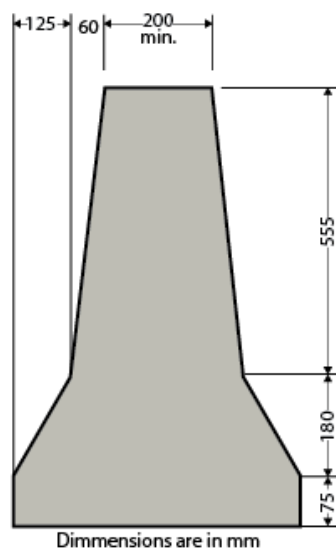
Only TC-11 **Detour** signs are permitted on TC-64C Heavy Barricades.



New Jersey Barrier

Use – New Jersey Barriers have four uses:

- Provide worker protection by preventing errant vehicles from entering a Work Area.
- Provide protection from an exposed object or excavation.
- Separate two-way traffic, particularly when a section of a multi-lane highway is operated as two-way.
- Provide protection for falsework or scaffolding.



To be effective, the sections of a New Jersey Barrier must be rigidly fastened together in accordance with design provisions, so that the barrier acts as a unit under impact.

Position – Errant vehicles must be protected from the exposed end of New Jersey Barrier by using an Impact Attenuator or by flaring the Barrier away from approaching traffic.

Other Designs – The New Jersey Barrier is the approved barrier for use in Prince Edward Island. Other barrier types and designs, including portable barriers and low-profile concrete barriers, may be considered for use if a detailed structural analysis is provided proving that the alternate barrier meets the requirements of NCHRP 350 Level TL-3 (100 km/h impact speed).

Blocker Vehicle

Description – A Blocker Vehicle is a truck without an energy attenuator used to block a travel lane to protect workers on a roadway from errant vehicles.

Use – Blocker Vehicles do not provide crash protection for striking vehicles. Limit their use to those situations where work must be carried out, workers are at risk, and a Protection Vehicle is not available. If used, Blocker Vehicles must be equipped with a Flashing Light Bar or a Flashing Light Unit to provide warning and guidance to approaching drivers.

Prohibited Use – A Blocker Vehicle at a temporary workplace must not be loaded with materials that have reasonable expectation of causing a fire or chemical hazard in an impact related collision.

Position – Blocker Vehicles used to protect stationary Work Areas must be positioned to protect workers and to prevent vehicle under-ride if struck by a smaller vehicle. A Blocker Vehicle must be turned to face oncoming traffic **unless** it is equipped with under-ride bars.



Operators of Blocker Vehicles used to protect stationary Work Areas must ensure that the vehicle is positioned correctly, the brakes locked, the truck in a low gear, and the front wheels angled slightly away from the Work Area and traffic flow. The operator must leave the vehicle for the duration of the work.

Protection Vehicle

Description – A Protection Vehicle is a truck of suitable weight with a Truck Mounted Attenuator (TMA) used to block a travel lane to protect workers on a roadway. The Protection Vehicle with its Truck Mounted Attenuator must meet the requirements of NCHRP 350 Level TL-3 (100 km/h impact speed).

A Protection Vehicle must be fitted with a high-back seat and a head rest for the operator.

A Protection Vehicle used in a Mobile Operation must be fitted with a Flashing Light Unit (FLU) to provide warning and guidance to overtaking traffic.

Prohibited Use – A Protection Vehicle at a temporary workplace must not be loaded with materials that have reasonable expectation of causing a fire or a chemical hazard in the event of an impact related collision.

A Protection Vehicle must not carry passengers.

Operator Requirements – Operators of Protection Vehicles used in Mobile Operations must receive training for their duties and must remain in constant radio contact with the operators of Trail Vehicles and Work Vehicles.

Operators of Protection Vehicles used to protect stationary Work Areas must ensure that the vehicle is positioned correctly, the brakes locked, the truck in a low gear, and the front wheels angled slightly away from the Work Area and traffic flow, and that the Flashing Light Unit displays the correct message. The operator then must leave the vehicle for the duration of the work.

Truck Mounted Attenuator (TMA)

Description – A Truck Mounted Attenuator (TMA) is an energy absorbing device mounted on the rear of a truck used as a Protection Vehicle.

A Truck Mounted Attenuator must satisfy the requirements of NCHRP 350 TL-3 (100 km/h impact speed).

Impact Attenuator

Description – An Impact Attenuator is a stationary energy absorbing device.

An Impact Attenuator must meet the requirements of NCHRP 350 Level TL-3 (100 km/h impact speed).

Use – An Impact Attenuator may be installed to shield the exposed end of fixed objects such as New Jersey Barriers that may be struck by an errant driver.

Impact Attenuators may also be installed to shield permanent objects that are being constructed or have become a hazard during a construction or maintenance project.



12.5 Regulatory Devices

Stop/Slow Paddle

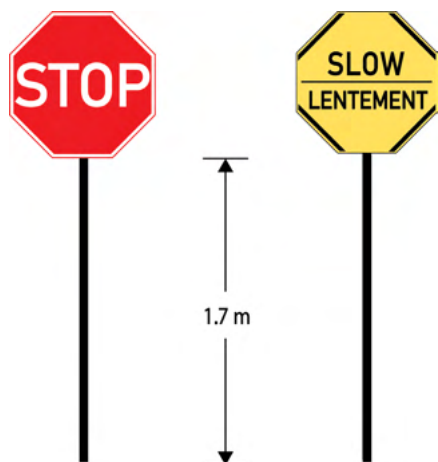
Use – The Stop/Slow Paddle is used by Traffic Control Persons.

Description – The Stop/Slow Paddle must consist of a STOP sign 50 cm x 50 cm (or larger) and a SLOW sign of the same size mounted double-sided on a pole with a minimum clearance from the bottom of the sign to the ground of 1.7 m.

The STOP sign must be octagon shaped with white letters on a red background.

The SLOW sign must have black letters on a yellow background.

For night use the STOP sign and the SLOW sign must be reflectorized with ASTM Type III (high intensity), or brighter, sheeting.



Temporary Signals

Authorization Needed – Temporary Signals must only be erected and maintained with authorization from the appropriate Traffic Authority for the street or highway under consideration.

Description and Use – Traffic Control signals as Temporary Signals to regulate the flow of traffic

through a Temporary Work Area must meet the same requirements for signal head numbers and local and signal display, as a permanent signal installation. Specifications must be obtained from the appropriate authority for the road.

Installation – Temporary Signals may be erected on temporary wooden poles.

Operation – Temporary Signals may operate as fixed-time signals if the Traffic Authority for the street or highway agrees.

Portable Signs

Use – With the authorization from the appropriate Traffic Authority for the street or highway, Portable Traffic Control Signals may be used instead of Traffic Control Persons to control traffic flow reduced to single lane at a Work Area requiring a lane closure.

Portable Traffic Control Signals must only be used to regulate traffic when there are accredited Traffic Control Persons available at the work site to assume traffic control duties if the signals fail to operate properly or fail to achieve sufficient driver attention and compliance.

Description – Portable Traffic Control Signals must display two standard size signal heads on each approach and be positioned within the driver's cone of acute vision. The signal display must be of comparable brightness to that of a permanent signal installation.

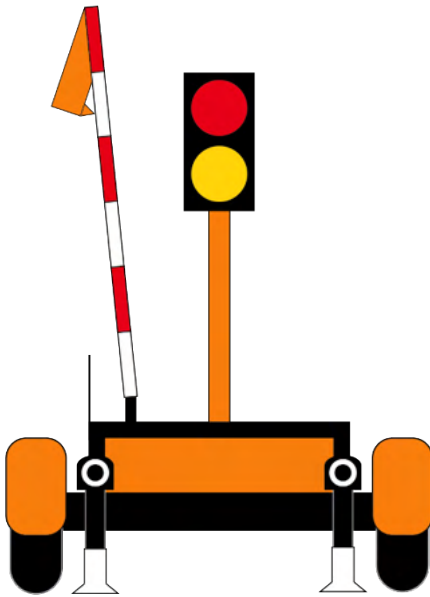
Weighted Base – Poles for Portable Traffic Control Signals must have a weighted base sufficient to keep the signal pole upright and the signal head in position during its expected use. The weight must not present a hazard if the pole is struck by a vehicle.



12.6 Automated Flagger Assistance Device (AFAD)

Description

An Automated Flagger Assistance Device (AFAD) is a traffic control device that allows a Traffic Control Person (TCP) to control traffic at a safe distance from the roadway. Its main components consist of a two-light signal head and a gate arm that extends over the travel lane. Specifications of the device are outlined in this section of the document.



Eligibility

The use of an AFAD is only eligible under the following conditions:

- The posted speed limit of the road does not exceed 70 km/h.
- The Summer Average Daily Traffic (SADT) does not exceed 9000.
- For only two-way, two-lane stop and go traffic.
- There is an operator(s) on site that has a valid accreditation certificate for TCP or TCM, and operation of an AFAD. This accreditation must be on the operator(s) person at all times while the AFAD is in use.

Operation

Operation of the AFAD must abide by the following guidelines:

- May only be deployed after the proper signage is on the roadway.
- Be operated by one or more persons that have a valid accreditation certificate for TCP or TCM, and operation of an AFAD.
- Must be a minimum of one operator per device.
- If there is only one operator, the contractor must have a minimum of one other personnel on site with a valid accreditation certificate as a TCP or TCM, and for the AFAD. They are to be used in the case of device malfunction as well as to provide breaks as needed.
- The operator(s) must maintain a continuous and unobstructed visual of all operational AFADs which are under their control.
- The operator(s) is to never leave the AFADs unattended while on the roadway.
- The operator(s) are to be clothed and equipped as specified in Section 13.1 of the 2025 Temporary Workplace Traffic Control Manual and Part 50 of the Occupational Health and Safety Act Regulations. All Traffic Control Persons working on projects must be equipped with two-way radios of a quality acceptable to the Engineer.
- The operator(s) must also have a supplemental Stop/Slow Paddle in the case of device malfunction.
- Be accompanied by a Temporary Stop Line.
- Be removed from the roadway when it is not in use.

It is strongly suggested that the AFAD have an operational 360 degree camera.



Signal Head and Signals

The Signal Head of the AFAD must meet the following guidelines:

- Must have two lenses. One red and one amber.
- The signal head backboard must be black in colour. This is to mitigate the effects of sunlight.
- The lenses are to be 300 mm in diameter and must have an accompanying visor. This is to mitigate the effects of sunlight.
- The lenses must be a minimum of 2.1 m above the pavement and must be in vertical orientation.

The signals must operate in the following sequence:

- A red cycle. This cycle is an indication that the cars must stop.
- A flashing amber cycle. The amber signal shall flash at a rate of 50/60 flashes per minute unless otherwise stated by the Engineer. This cycle is an indication to drivers that they are permitted to drive through the worksite using caution.
- A minimum five (5) second solid amber transitions cycle. This cycle is an indication to drivers that they must prepare to stop.

Excluding the amber transition period, the cycle length is to be determined at the discretion of the operator(s).

Gate Arm

The Gate Arm of the AFAD must meet the following guidelines:

- Descend to a down position across the desired travel lane during the red cycle. It must then ascend to an upright position during the flashing amber cycle. It is to remain ascended and is only to descend at the start of the red cycle.
- Be fully retro reflectorized on both sides.
 - The Retro Reflectors are to be vertical, red/orange, and white stripes.
- The centre of the gate is to have a minimum height of 1.0 m above the pavement when completely descended.
- The arm must occupy a minimum of 80% of the desired travel lane.
- Must be equipped with an orange flag attached to the end of the arm.

Temporary Stop Line

The Temporary Stop Line used in conjunction with the AFAD must meet the following guidelines:

- Be temporarily installed.
- Must be a 0.3 m line that occupies the entire width of the travel lane.
- Be located a minimum of 5 m before the Gate Arm.
- Be a transverse line at a right angle to the travel lane.
- Be highly visible to motorists and free of any obstructions.
- Be accompanied by an adjacent Stop Line sign.
 - This sign must be bilingual.
- Be removed when the AFAD is not in use.



13.0 Temporary Workplace Accredited Traffic Control Personnel

13.1 Traffic Control Persons

Traffic Control Persons have a unique and important position on construction and maintenance projects. They regulate the flow of traffic past Temporary Work Areas to maintain maximum safety for workers and motorists.

Physical and Mental Requirements

Persons employed as Traffic Control Persons must be alert, conscientious, trained, accredited, and properly equipped. They must possess:

- Good physical health, good vision, and good hearing.
- Good physical and mental alertness.
- Mature judgement.
- A pleasant, cooperative manner.

Responsibilities

Traffic Control Persons regulate traffic flow to provide for the safety of both workers and motorists, their role is to:

- Direct traffic safely through Work Areas.
- Allow work to proceed safely and efficiently.
- Ensure that highway traffic has priority over work-related traffic as much as is practical.
- Stop traffic as much as is practical.
- Stop traffic whenever required by the progress of the work.
- Warn workers of impending danger.

Training

Traffic Control Persons working on any highway, road, or street in the Province of Prince Edward Island must be accredited. This means that they must receive approved training and pass an examination. They must:

- Have a valid accreditation certificate issued by the Prince Edward Island Department of Transportation and Infrastructure.

- Carry the accreditation certificate at all times while on the job.
- Present the accreditation certificate on demand to appropriate authorities.

Clothing and Equipment

Traffic Control Persons must wear the following clothing and protective equipment:

- Full length jeans or work pants and a shirt with sleeves; short sleeve shirts with minimum six-inch sleeves are acceptable.
- Hard hat CSA certified, Class E or G, Type 2. Elasticized reflective bands or cuffs ASTM Type III (high intensity) required on the hat for night operations.
- Safety boots CSA certified Grade 1 (green triangular CSA patch on the outside, green rectangular label on the inside).
- Safety apparel must meet the requirements of a Class 2 apparel as detailed in CSA Z96-22 with fluorescent background material and Level 2 retro-reflective striping of colour contrasting the background material. The safety apparel must be worn over all clothing.

Traffic Control Persons may wear the following clothing:

- Arm bands or arm cuffs; must be constructed of materials meeting the same requirements as safety apparel.

The following additional clothing and protective equipment must be used when deemed necessary by the Traffic Control Person or the Traffic Control Manager:

- Eye protection – safety sunglasses for sunny conditions and safety goggles for windy sites and chip seal operations.



- Rain gear in a highly visible shade of orange or yellow/green, meeting clothing safety apparel requirements.
- A two-way communicating device – headsets or receivers covering both ears must not be used.
- Flashing light with red cone attachment for night operations.

Stop/Slow Paddle

The Stop/Slow Paddle to be used by Traffic Control Persons must meet the following requirements.

Stop Sign:

- 50 cm x 50 cm (or larger).
- Octagonal in shape.
- White letters on a red background.

Slow Sign:

- 45 cm x 45 cm (or larger).
- Diamond or octagonal in shape.
- Black letters on a yellow background.

The signs must be mounted back-to-back or double-sided, on a pole with a minimum height of 170 cm. For night use, both signs must be reflectorized with ASTM Type III (high intensity) sheeting.

Position on the Roadway

The Traffic Control Persons position on the roadway is important. The correct position:

- Allows the Traffic Control Person to both see and be seen by oncoming traffic.
- Provides an avenue of escape from the path of errant drivers.
- Is just outside the travel lane, with sign paddle resting on the edge line.
- Is never in a group.
- Is one-third to one-half the distance between the Transition Taper and the Traffic Control Person sign.

A third active Traffic Control Person on a job should stand outside the travel lanes at a location visible to the other Traffic Control Persons.

Signalling Procedures

Correct and easily understandable traffic control signals are vital to move traffic safely. Appropriate methods and procedures for many situations are taught in the Traffic Control Person accreditation course. An overview of signals and procedures follows.

To stop traffic, the Traffic Control Person:

- Stands just outside the travel lane.
- Places the sign paddle on the edge of the lane with the Stop sign facing approaching traffic.
- Uses hand signals to signal the desired stopping point.
- Gives full attention to the approaching vehicle until it has stopped.

Traffic Control Persons must give drivers adequate warning. Display the Stop sign only when approaching traffic can stop safely and comfortably:

- At 50 km/h a driver may require 65 m (13 car lengths) to stop on dry pavement.
- At 100 km/h a driver may require 200 m (40 car lengths) to stop on dry pavement.
- Stopping distance increase substantially on wet or icy surfaces.

To move traffic from a stopped position, the Traffic Control Person:

- Ensures that all opposing traffic has passed and that the other Traffic Control Person has stopped approaching traffic from entering the controlled section.
- Advises the other Traffic Control Person using previously agreed upon signals that stopped traffic is about to be released.



- Turns the sign paddle so that the Slow sign faces traffic.
- Uses hand signals to wave traffic forward, as needed.

To allow traffic to proceed at a reduced speed, the Traffic Control Person:

- Displays the Slow sign to approaching traffic.
 - If the intent is to only slow traffic, the Stop sign should not be displayed and then the paddle turned to Slow.
- Uses hand signals to wave traffic forward or reduce traffic speed, as needed.

Communications

Traffic Control Persons must work together to control traffic through a Work Area. They must communicate with each other to accomplish their task.

When the Traffic Control Persons are in sight of each other:

- Use pre-arranged visual signals to communicate. Effective signals include raising and lowering or waving the sign paddle before changing from Slow to Stop or vice versa.
- Wait until signals are acknowledged by the other Traffic Control Person before changing traffic flow.

When the Traffic Control Persons are not in sight of each other:

- Station an additional Traffic Control Person between the two so that signals can visually be relayed, or
- Equip the intermediate Traffic Control Person with back-to-back Slow signs. This person will not actually be directing traffic but will display the Slow sign to traffic moving through the area. A Slow/Slow paddle is needed because drivers travelling in the opposite direction may see the back of the

paddle. They may become confused if a Stop sign is visible and may take inappropriate action.

- Ensure that all three Traffic Control Persons fully understand and acknowledge the pre-arranged signals.

When the Traffic Control Persons are not in sight of each other and are using two-way radios to communicate:

- Test radios before starting traffic control.
- Carry spare batteries for the radio.
- Establish clear pre-arranged voice signals for every situation and do not deviate from them.
- Speak crisply and distinctly.
- Ask that any unclear messages be repeated.
- Avoid unnecessary talk.
- Remember that everything said on a radio can be picked up by other radios and scanners. Avoid unnecessary and inappropriate comments.
- Do not use two-way radios in blasting areas.

Night Operations

Traffic Control Persons working at night must be highly visible to be seen by approaching drivers in time for them to recognize and respond. To increase visibility:

- Add elasticized bands or cuffs CSA Class 3 or ASTM Type III (high intensity) reflective tape to hard hats.
- Long sleeve safety apparel or the addition of arm bands or arm cuffs meeting CSA Z96-22, Class 2 requirements must be used for night work.
- Use a flashlight with red cone attachments.
 - If using two-way radios for communication, they should be equipped with voice-activated microphones so that the flashlight is in a free hand.



- Illuminate the Traffic Control Person position with overhead lighting.
 - If street lighting is available, the Traffic Control Person should stand just beside the light to maximize the illumination on their front.
 - If using temporary overhead lighting, take care to ensure that approaching drivers are not subject to excessive glare.

Legal Issues

Motorists may fail to obey a Traffic Control Persons direction. This continuing problem affects the safety of everyone in a Temporary Work Area, including the motorist.

It is an offence under the *Motor Vehicle Act* for a driver to fail to stop for the Stop sign on a Traffic Control Persons sign paddle within a Temporary Work Area.

Training courses for Traffic Control Person accreditation deal with how to help enforce this provision of the act.

Emergency Vehicles

The approach of an emergency vehicle displaying emergency red and blue flashing lights presents a special challenge to Traffic Control Persons.

Do not attempt to direct the driver of an emergency vehicle. Directing such a vehicle is potentially dangerous and exceeds the Traffic Control Persons legal authority.

Experience has shown that the best method of passing an emergency vehicle through a Work Area is for Traffic Control Persons to:

- Stop all other traffic by holding the Stop/Slow paddles in the “Stop” position.
- Allow the driver of the emergency vehicle to decide upon the best course of action.
 - The driver has the legal authority to pass the “Stop” sign.
 - Any approaching traffic should yield and give the emergency vehicle the right-of-way.

Forbidden Behaviours

Traffic Control Persons actively working as Traffic Control Persons must not:

- Be assigned or attempt to carry out any other work.
- Permit the Traffic Control Persons sign to be displayed when a Traffic Control Person is not directing traffic.
- Stand near any other persons.
- Carry out a conversation with any person that is not work related; all work-related conversation must be both necessary and brief.
- Use a tv, radio, tape player, disk player, cellular phone, gaming device, earbuds/headphones or any device that impairs sight, hearing, or diverts attention.
- Turn their back on approaching traffic.
- Become impatient or enraged.
- Attempt to slow traffic by displaying the Stop sign rather than the Slow sign.
- Leave their post without being replaced – arrange meal, coffee, toilet, and rest breaks with the supervisor or Traffic Control Manager before work starts.



13.2 Traffic Control Managers

Traffic Control Managers are responsible for implementing a Workplace Traffic Plan (WTP) that regulates the flow of traffic past Temporary Work Areas. Often, they must also prepare plans. The goal of all such plans is to maintain maximum safety for both workers and motorists.

Whether carrying out a plan prepared by themselves, or a 'guide' taken from the **Manual**, Traffic Control Managers must make sure that the plan is adequate for the particular work site under consideration. Frequently, they must modify the plan to optimize safety and efficiency.

Responsibilities

Traffic Control Managers must prepare and carry out traffic control plans that satisfy all of the following:

- Guide traffic safely through Work Areas.
- Provide for the safety of workers and motorists.
- Allow work to proceed safely and efficiently.

Traffic Control Managers must consider all the variables for every work site for which they are responsible, including traffic volumes, traffic speed, and roadway conditions. At the work site these factors may vary significantly from those which were anticipated when the plan was prepared. They must exercise good technical judgement in designing a temporary workplace traffic control plan that suits current conditions.

This includes setting up additional signs, markings, devices, and worker protection if they deem them necessary.

Traffic Control Managers must review the traffic control plan as soon as it is implemented and correct the plan as needed. They must also review the plan whenever conditions change and adjust the plan to the new conditions.

Physical and Mental Requirements

Traffic Control Managers must be alert, conscientious, trained, and accredited. They should possess all of the following:

- Good physical health, good vision, and good hearing.
- Good physical and mental alertness.
- Mature judgement.
- A pleasant cooperative manner.

Training

Traffic Control Managers must be accredited before they prepare or set up a signing plan for a temporary work site on any highway, road, or street in the Province of Prince Edward Island. That means they must receive approved training and pass an examination. They must:

- Have a valid accreditation certificate issued by the Prince Edward Island Department of Transportation and Infrastructure.
- Carry their accreditation certificate at all times while on the job.
- Present their accreditation certificate on demand to the appropriate authorities.



14.0 Set-Up & Take-Down Procedures

Sections 14.1 to 14.8 illustrate the approved procedures for placing and removing signs and devices.

Each illustrated procedure includes directions for set-up conditions that must be met before work can commence, and direction for take-down.

Service Vehicle Restrictions

The following restrictions for Service Vehicles apply to all Set-up and Take-down Procedures, unless specifically noted.

A Service Vehicle setting up, maintaining, or taking down signs and devices must:

- Display a 360° Flashing Amber Light **unless** the Application Guide for the intended Work Activity states that the Work Vehicle must display a Flashing Light Unit. The Service Vehicle must then display a Flashing Light Unit operating in *Bar* mode.
- Stop on the highway shoulder or park lane or near the curb to minimize encroachment on the travel lane.
- Never back up during the procedure.

A Service Vehicle setting up, maintaining, or taking down taper cones or drums must only stop in the travel lane when:

- Traffic Control Persons are regulating traffic on two-way two-lane roads, or
- A Flashing Light Unit is displaying the appropriate *Arrow* mode on a multi-lane road.

The operator of a Service Vehicle used for setting up, maintaining, and taking down signs and devices must not permit workers to place, adjust, or remove signs or devices while the vehicle is moving unless the workers are seated in secure seating.

Flashing Light Requirements

A Service Vehicle setting up, maintaining, or taking down signs and devices at a minimum must display a 360° Flashing Amber Light (unless the Application Guide for the intended Work Activity states that the Work Vehicle must display a Flashing Light Unit in *Bar* mode). However, it is recommended that the Service Vehicle exceed the minimum requirements and display a Flashing Light Bar or a Flashing Light Unit whenever possible.

Delineation Device Set-Up

The following steps outline the set-up of delineators and other temporary traffic condition devices. These steps apply to Sections 14.1 through 14.6 of the Manual.

Once signs are set up, the Traffic Control Persons can take their place. Starting on the shoulder of the road approximately halfway between the Traffic Control Person and the Transition Taper:

- If Stop/Slow Paddles are being used to control traffic, the Traffic Control Person on the same side of the road as the Work Area stops traffic flow, as conditions require.
- Lay out delineators for the Transition Taper; start at the road shoulder and work toward the centreline.
- Maintaining the safety space between vehicles, drive through the delineators in the taper and take up position close to the boundary between the Transition Taper and the Buffer Area.
- The Flashing Light Unit on the Service Vehicle at the Transition Taper is aimed so that it has the best viewing angle for oncoming traffic.
- Traffic Control Persons may now alternate traffic direction past the workplace, as conditions require.



- A vehicle maintains its position at the Transition Taper. The other vehicle is free to move downstream to support laying delineators.
- Starting at the last downstream delineator of the Transition Taper, lay out delineators for the Buffer Area, Work Area, then

Termination Taper, in that order. Work from the upstream end to the downstream end.

- If required, a Flashing Light Unit is positioned at the Termination Taper.



14.1 Arterial, Collector and Local Highways Two-Way Two-Lane

Service Vehicle Restrictions

Service Vehicles must be operated according to the restrictions indicated in Section 14.0.

Direction of Work During Set-Up

The Service Vehicle must:

- Drive forward with the flow of traffic and begin sign set-up on the highway shoulder opposite the Work Area and proceed towards the Work Area setting up signs (Positions 1 and 2 Part A Figure 14.1).
- Proceed past the Work Area, turn and approach the Work Area setting up signs (Positions 3 and 4 Part A Figure 14.1).

Set-up delineators and traffic control devices as per Section 14.0.

Conditions Required Before Work Commences

If the Work Activity is Shoulder Work or a Partial Lane Closure and delineation devices (cones or drums) are required, the Service Vehicle must stop on the shoulder in advance of the Work Area and wait until the cones or drums are set up (Position 5 Part B Figure 14.1).

If the Work Activity is a Lane Closure and a delineated taper is required, the Service Vehicle must wait on the shoulder until Traffic Control Persons begin to regulate traffic. The Service Vehicle must then be moved to a position partially in the lane and wait until the cones or drums are set up (Position 6 Part C Figure 14.1).

If a Blocker Vehicle or a Protection Vehicle is used it must then assume its position in the Buffer Area (Position 7 Part D Figure 14.1).

Work can then begin in the Work Area.

Direction of Work During Take-Down

Remove devices in the Work Area in the reverse order from that in which they were set up:

1. Vacate the Work Area.
2. Remove the Protection Vehicle.
3. Remove the cone or drums in the taper.
4. Remove the Service Vehicle.
5. Direct the Traffic Control Persons to stand down.

The Service Vehicle retrieves the signs in the order in which they were set up:

1. Retrieve the signs on the opposite side of the road.
2. Retrieve the signs in advance of the Work Area.

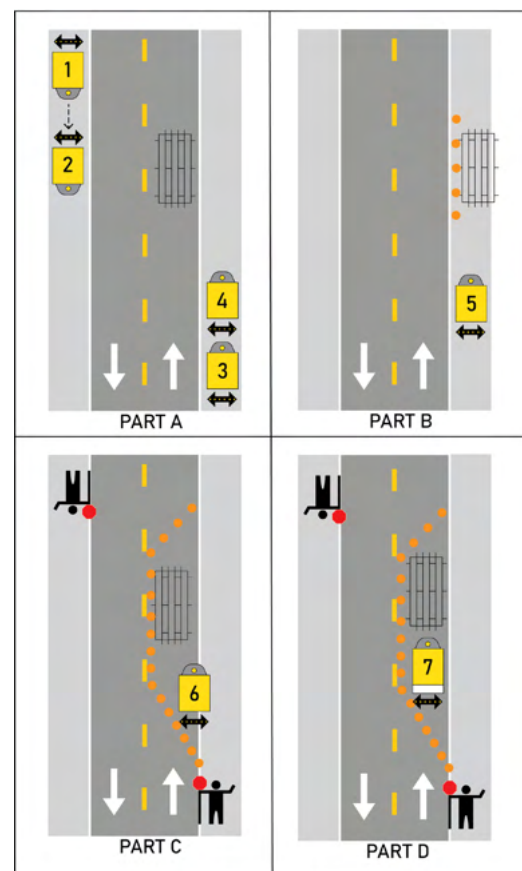


Figure 14.1



14.2 Urban/Residential Two-Way Two-Lane

Service Vehicle Restrictions

Service Vehicles must be operated according to the restrictions indicated in Section 14.0.

Direction of Work During Set-Up

The Service Vehicle must:

- Drive forward with the flow of traffic and begin sign set-up in the Park Lane or near the curb opposite the Work Area and proceed towards the Work Area setting up signs (Positions 1 and 2 Part A Figure 14.2). These signs are not required if the Work Activity is Park Lane Work or Partial Lane Closure Low Volume.
- Proceed past the Work Area, turn and approach the Work Area setting up signs (Positions 3 and 4 Part A Figure 14.2). These signs are not required if the Work Activity is Park Lane Work No Excavation.

Set-up delineators and traffic control devices as per Section 14.0.

Conditions Required Before Work Commences

If the Work Area is in the Park Lane or a Partial Lane Closure or a Lane Closure Low Volume and delineation devices (cones or drums) are required, the Service Vehicle must stop in the Park Lane or near the curb in advance of the Work Area until the cones or drums are set up (Position 5 Part B Figure 14.2).

If the Work Activity is a Lane Closure and a delineated taper is required, the Service Vehicle must wait in the Park Lane or near the curb until Traffic Control Persons begin to regulate traffic. The Service Vehicle must then move to a position partially in the lane and wait until the cones or drums are set-up (Position 6 Part C Figure 14.2).

If a Protection or Blocker Vehicle is used it must then assume its position in the Buffer Area-

(Position 7 Part D Figure 14.2).

Work can then begin in the Work Area.

Direction of Work During Take-Down

Remove signs and devices in the Work Area in the reverse order from that in which they were set up:

1. Vacate the Work Area.
2. Remove the Protection Vehicle.
3. Remove the cone or drums in the taper.
4. Remove the Service Vehicle.
5. Direct the Traffic Control Persons to stand down.

The Service Vehicle retrieves the signs in the order in which they were set up:

1. Retrieve the signs on the opposite side of the road.
2. Retrieve the signs in advance of the Work Area.

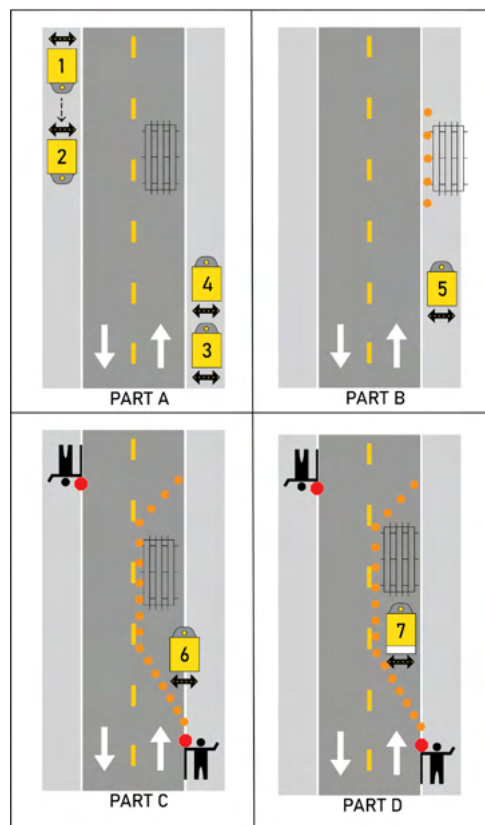


Figure 14.2

14.3 Urban/Residential One-Way

Service Vehicle Restrictions

Service Vehicles must be operated according to the restrictions indicated in Section 14.0.

Direction of Work During Set-Up

The Service Vehicle must:

- Drive forward with the flow of traffic and begin sign set-up in the Park Lane or near the curb opposite the Work Area and proceed towards the Work Area setting up signs (Positions 1 and 2 Part A Figure 14.3). These signs are not required if the Work Activity is Park Lane Work.
- Proceed past the Work Area, turn and approach the Work Area setting up signs (Positions 3 and 4 Part A Figure 14.3). These signs are not required if the Work Activity is Park Lane Work No Excavation.

Set-up delineation and traffic control devices as per Section 14.0.

Conditions Required Before Work Commences

If the Work Area is in the Park Lane and delineation devices (cones or drums) are required, the Service Vehicle must stop in the Park Lane or near the curb in advance of the Work Area until the cones or drums are set up (Position 5 Part B Figure 14.3).

If the Work Activity is a Lane Closure and a delineated taper is required, the Service Vehicle must change the display of the Flashing Light Unit to the appropriate Left or Right Arrow mode. The Service Vehicle must then stop in the lane within the taper distance and wait until the cones or drums are set up (Position 6 Part C Figure 14.3).

If required for the intended Work Activity, the Service Vehicle with a Flashing Light Unit or a trailer mounted Flashing Light Unit in

appropriate *Arrow* mode must be positioned with the taper.

If a Blocker Vehicle or a Protection Vehicle is used, it must then assume its position in the Buffer Area (Position 7 Part D Figure 14.3).

Direction of Work During Take-Down

Remove the signs and devices in the Work Area in the reverse order from that in which they were set up:

1. Vacate the Work Area.
2. Remove the Protection Vehicle.
3. Remove the cones or drums in the taper.
4. Remove the Service Vehicle.

The Service Vehicle retrieves the signs in the order in which they were set up:

1. Retrieve signs on the opposite side of the road.
2. Retrieve signs in advance of the Work Area.

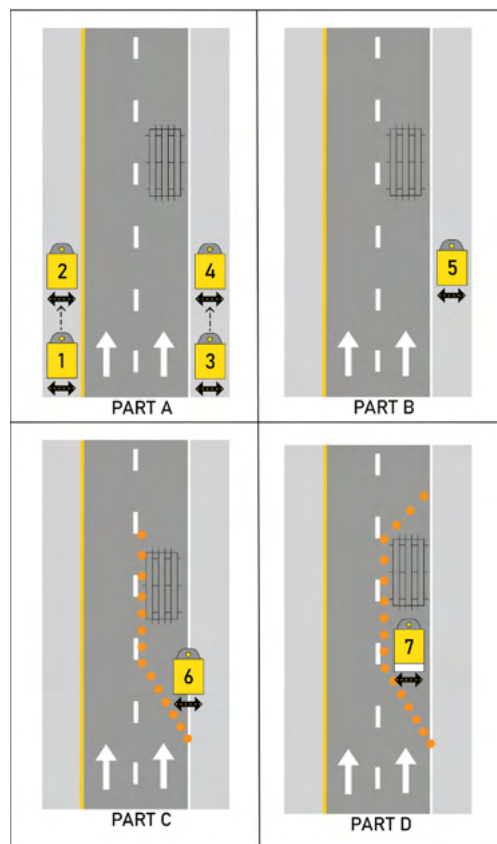


Figure 14.3

14.4 Arterial Highways Two-Way Two-Lane Double Post

Service Vehicle Restrictions

Service Vehicles must be operated according to the restrictions indicated in Section 14.0.

Direction of Work During Set-Up

The Service Vehicle must:

- Drive forward with the flow of traffic and begin sign set-up on the highway shoulder beyond the Work Area and proceed away from the Work Area setting up signs (Positions 1 and 2 Part A Figure 14.4).
- Turn and set up signs on the highway shoulder opposite the Work Area and proceed towards the Work Area setting up signs (Positions 3 and 4 Part A Figure 14.4).
- Proceed past the Work Area setting up signs on the highway shoulder opposite the Work Area (Positions 5 and 6 Part A Figure 14.4).
- Turn and approach the Work Area setting up signs (positions 7 and 8 Part A Figure 14.4).

Set-up delineation and traffic control devices as per Section 14.0.

Conditions Required Before Work Commences

If the Work Area is Shoulder Work and delineation devices (cones or drums) are required, the Service Vehicle must stop on the shoulder in advance of the Work Area and wait until the cones or drums are set up (Position 9 Part B Figure 14.4).

If the Work Activity is a Lane Closure and a delineated taper is required, the Service Vehicle must wait on the shoulder until Traffic Control Persons begin to regulate traffic. The Service Vehicle must then move to a position partially in the lane and wait until the cones or drums are set up (Position 10 Part C Figure 14.4).

If a Blocker Vehicle or a Protection Vehicle is used it must then assume its position in the Buffer

Area (Position 11 Part D Figure 14.4).

Work can then begin in the Work Area.

Direction of Work During Take-Down

Remove signs and devices in the Work Area in the reverse order from that in which they were set up:

1. Vacate the Work Area.
2. Remove the Protection Vehicle.
3. Remove the cones or drums in the taper.
4. Remove the Service Vehicle.
5. Direct the Traffic Control Person to stand down.

The Service Vehicle retrieves the signs in the order in which they were set up:

1. Retrieve signs past the Work Area.
2. Retrieve signs on the opposite side of the highway.
3. Retrieve signs in advance of the Work Area.

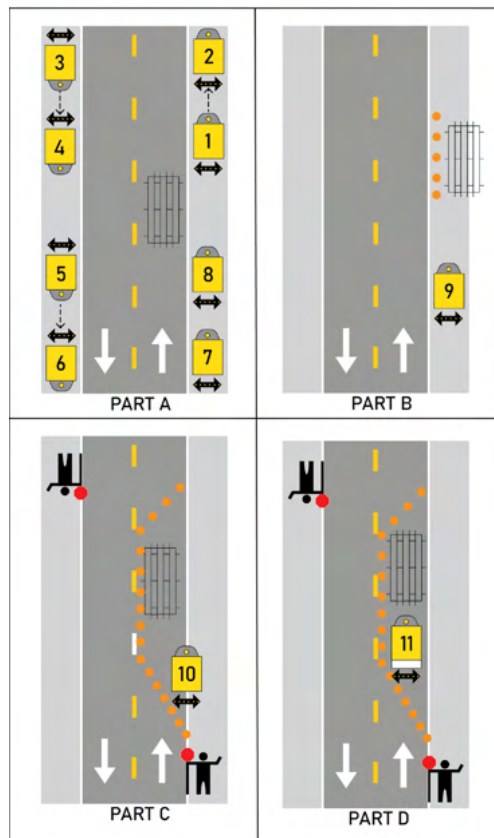


Figure 14.4

14.5 Arterial, Collector, Local, Urban/Residential Multi-Lane Undivided

Service Vehicle Restrictions

Service Vehicles must be operated according to the restrictions indicated in Section 14.0.

Direction of Work During Set-Up

The Service Vehicle must:

- Drive forward with the flow of traffic and begin sign set-up on the highway shoulder beyond the Work Area and proceed away from the Work Area setting up signs (Positions 1 and 2 Part A Figure 14.5).
- Turn and set up signs on the highway shoulder opposite the Work Area and proceed towards the Work Area setting up signs (Positions 3 and 4 Part A Figure 14.5).
- Proceed past the Work Area setting up signs on the highway shoulder opposite the Work Area (Positions 5 and 6 Part A Figure 14.5). These signs are not required if the Work Activity is Shoulder Work.
- Turn and approach the Work Area setting up signs (positions 7 and 8 Part A Figure 14.5).

Set-up delineation and traffic control devices as per Section 14.0.

Conditions Required Before Work Commences

If the Work Area is Shoulder Work and delineation devices (cones or drums) are required, the Service Vehicle must stop on the shoulder in advance of the Work Area and wait until the cones or drums are set up (Position 9 Part B Figure 14.5).

If the Work Activity is a Lane Closure the Service Vehicle must:

- Change the display of the Flashing Light Unit to the appropriate Left or Right Arrow mode.
- Stop in the lane within the taper distance.
- Wait until the cones or drums are set up (Position 10 Part C Figure 14.5).

The Service Vehicle with a FLU or a trailer mounted FLU in appropriate Arrow mode must

be positioned within the taper.

If a Blocker Vehicle or a Protection Vehicle is used it must then assume its position in the Buffer Area (Position 11 Part D Figure 14.5). Work can then begin in the Work Area.

Direction of Work During Take-Down

Remove the signs and devices in the Work Area in the reverse order from that in which they were set up:

1. Vacate the Work Area.
2. Remove the Protection Vehicle.
3. Remove the cones or drums in the taper.
4. Remove the Service Vehicle.

The Service Vehicle retrieves the signs in the order in which they were set up:

1. Retrieve signs past the Work Area.
2. Retrieve signs on the opposite side of the highway.
3. Retrieve signs in advance of the Work Area.

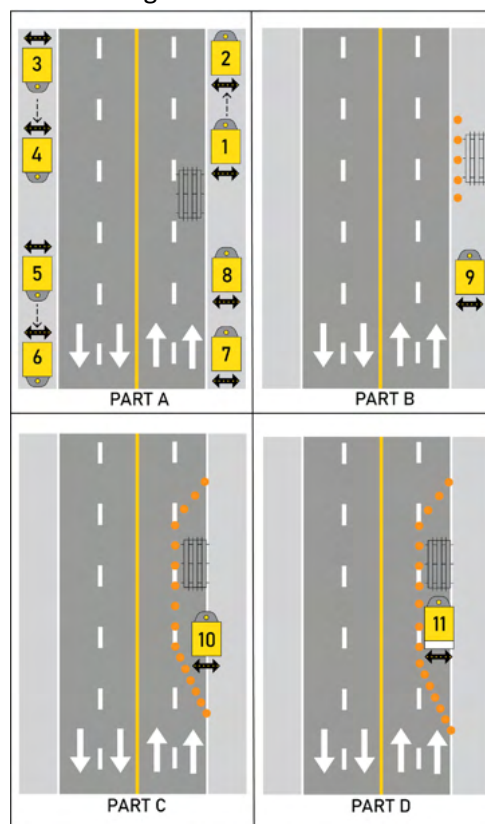


Figure 14.5

14.6 Arterial, Collector, Local, Urban/Residential, Divided Wide Median

Service Vehicle Restrictions

Service Vehicles must be operated according to the restrictions indicated in Section 14.0.

Direction of Work During Set-Up

The Service Vehicle must:

- Drive forward with the flow of traffic and begin sign set-up on the highway shoulder beyond the Work Area and proceed towards the Work Area setting up signs (Positions 1 and 2 Part A Figure 14.6).
- Drive to an interchange or median crossover, turn around and proceed to the next interchange or median crossover and then proceed towards the Work Area setting up signs (Positions 3 and 4 Part A Figure 14.6).

Set-up delineation and traffic control devices as per Section 14.0.

Conditions Required Before Work Commences

If the Work Area is Shoulder Work and delineation devices (cones or drums) are required, the Service Vehicle must stop on the shoulder in advance of the Work Area and wait until the cones or drums are set up (Position 5 Part B Figure 14.6).

If the Work Activity is a Lane Closure the Service Vehicle must:

- Change the display of the Flashing Light Unit to the appropriate Left or Right Arrow mode.
- Stop in the lane within the taper distance.
- Wait until the cones or drums are set up (Position 6 Part C Figure 14.6).

The Service Vehicle with a FLU or a trailer mounted FLU in appropriate Arrow mode must be positioned within the taper.

If a Blocker Vehicle or a Protection Vehicle is used it must then assume its position in the Buffer

Area (Position 7 Part D Figure 14.6).

Work can then begin in the Work Area.

Direction of Work During Take-Down

Remove signs and devices in the Work Area in the reverse order from that in which they were set up:

1. Vacate the Work Area.
2. Remove the Protection Vehicle.
3. Remove the cones or drums in the taper.
4. Remove the Service Vehicle.

The Service Vehicle retrieves the signs in the order in which they were set up:

1. Retrieve the signs on the opposite side of the highway.
2. Retrieve the signs in advance of the Work Area.

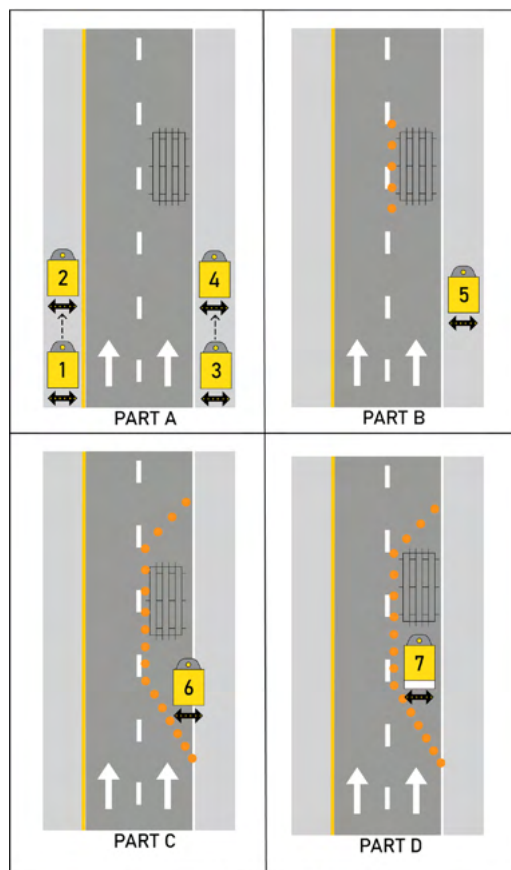


Figure 14.6

14.7 Barrier Change-Over Bridge Repair

When a barrier is used to protect the closed lane on a two-way two-lane bridge or a multi-lane bridge needs to be relocated, a coordinated procedure is required to avoid exposing motorists to the blunt end of the barrier. An acceptable procedure requires the following:

- Clear all workers and equipment not required for the change-over from the Work Area.
- Increase the Buffer Area and Work Area using drums to a distance equal to the full length of the barrier.
- If the increase in the length of the Buffer Area causes the Transition Area taper to be shortened by more than 10%, a new Transition Area taper must be established (Part A Figure 14.7).
- Working within the closed lane, move the taper(s) lengths of the barrier to the centreline (two-way two-lane bridge) or to the centre of the lane line (multi-lane bridge).
- Place a delineation marker on the blunt end of the barrier exposed to approaching traffic (Part B Figure 14.7).
- Remove the drums forming the Transition Area taper using the prescribed take-down procedure shown in the *Manual* (Part C Figure 14.7).
- Re-establish a Transition Area taper with drums in the other lane using the prescribed set-up procedure shown in the *Manual*.
- Working within the closed lane, move barrier sections to re-establish the barrier taper(s) (Part D Figure 14.7).

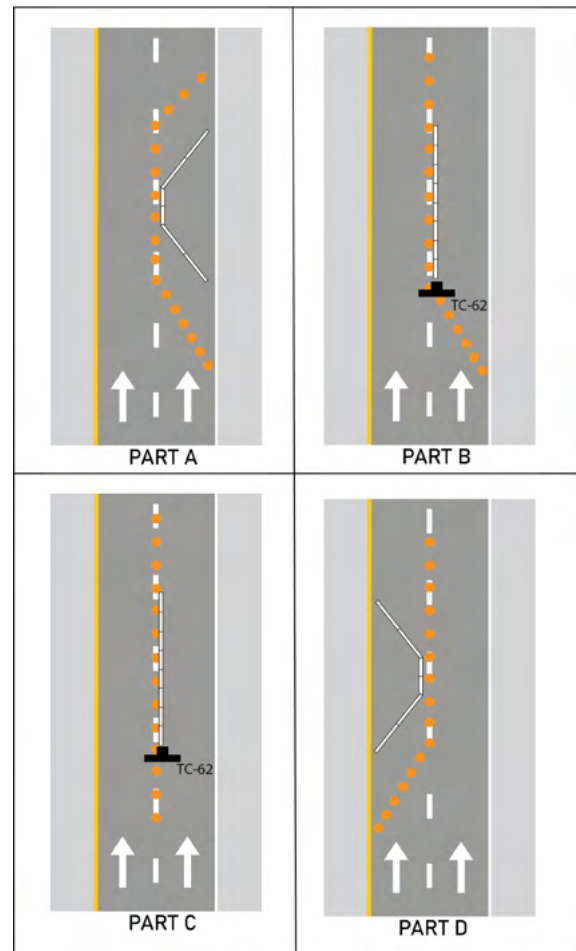


Figure 14.7

14.8 Automated Flagger Assistance Device (AFAD)

Set-Up

1. Beginning on the shoulder opposite and in advance of the Work Area, drive forward with the flow of traffic laying out the signs required by the Application Guide.
2. Stop at the location of the first AFAD. The Service Vehicle must pull completely off the shoulder of the road. If it cannot pull completely off the road, a second Service Vehicle must be used to provide protection. The first AFAD is to be installed and set to flashing amber.
3. Pass the Work Area.
4. Lay out the remaining signs as per the Application Guide.
5. Make a safe and legal turn.
6. On the same side of the road as the Work Area, approach the Work Area and lay out signs as required by the Application Guide.
7. Stop at the location of the second AFAD. The Service Vehicle must pull completely onto the shoulder of the road. If it cannot pull completely off the road, a second Service Vehicle must be used to provide protection. The second AFAD is to be installed and set to flashing amber.
8. Pass the Work Area.
9. Layout the remaining signs as per the Application Guide.
10. If there are additional AFADs required to control the site, repeat the steps above.
11. When all required signs and AFADs are in place, turn the AFADs to signal mode and start controlling traffic.

Take-Down

1. When all work is completed for the day, and it is time to reinstate traffic, start the teardown process by turning all AFADs to flashing amber.
2. Beginning on the same side of the road as the Work Area, approach the Work Area and take down the signs in the opposite order that they were set up.
3. Stop at the location of the second AFAD. The Service Vehicle must pull completely onto the shoulder of the road. If it cannot pull completely off the road, a second Service Vehicle must be used to provide protection. The second AFAD is to be torn down.
4. Pass the Work Area.
5. Take down any remaining signs.
6. Make a safe and legal turn.
7. On the opposite side of the road as the Work Area, approach the Work Area and take down signs in the opposite order they were set up.
8. Stop at the location of the first AFAD. The Service Vehicle must pull completely onto the shoulder of the road. If it cannot pull completely off the road, a second Service Vehicle must be used to provide protection. The first AFAD is to be torn down.
9. Pass the Work Area.
10. If there are additional AFADs required to control the site, repeat the steps above.
11. When all required signs and AFADs are torn down, the job is complete.



Laying Out Delineators

1. Delineators are only to be placed on the road after all required signs are in place.
2. Beginning approximately halfway between the last sign and the Transition Taper, approach the Work Area from the same side of the road.
3. At this point, the AFAD operator(s) is to turn the AFAD controlling the desired lane to a red cycle.
4. Once traffic is stopped, workers are to lay out delineators in advance of the AFAD as required by the Application Guide.
5. When complete, workers are to set out the delineators for the Transition Taper. Start at the road shoulder and work toward the centreline. Taper length and delineator spacings are to be in accordance with the required Application Guide.
6. The Service Vehicle is to then drive through the delineators in the taper and take up a position close to the boundary between the Transition Taper and the Buffer Area.
7. The AFAD Operator may now alternate traffic direction past the workplace, as conditions require.
8. The Service Vehicle is free to move downstream to support laying delineators.
9. Starting at the last downstream delineator of the Transition Taper, lay out the delineators for the Buffer Area, Work Area, then Termination Taper, in that order.
10. Once all delineators are in place, continue through the Work Area and make a safe and legal turn.
11. The AFAD operator(s) are to now stop traffic in the lane opposite of the Work Area. Once traffic is stopped, workers are to lay out delineators in advance of the AFAD as required by the Application Guide.

12. Once complete, double check the site is in accordance with the required Application Guide.
13. You may also now control traffic as the work requires.

Take-Down of Delineators

1. Beginning on the same side of the road as the Work Area, have the AFAD operator(s) stop traffic in the desired lane.
2. Once traffic is stopped, have workers collect all of the delineators in advance of the AFAD.
3. Once complete, the workers should then continue collecting delineators past the AFAD into the Work Area.
4. The Service Vehicle is to then drive through the delineators in the taper and take up a position close to the boundary between the Transition Taper and the Buffer Area.
5. The AFAD Operator may now alternate traffic direction past the workplace, as conditions require.
6. The Service Vehicle is free to move downstream to support the collection of delineators.
7. Starting at the last downstream delineator of the Transition Taper, collect the delineators for the Buffer Area, Work Area, then Termination Area, in that order.
8. Once all delineators are collected, continue through the Work Area, and make a safe and legal turn.
9. Now on the opposite side of the road as the Work Area, have the AFAD operator(s) stop traffic in the desired lane.
10. Once traffic is stopped, have workers collect all of the delineators in advance of the AFAD.
11. If there are additional AFADs required on site, collect the delineators following the process above.



15.0 Application Guide Flow Chart

Use the following decision matrix to locate the appropriate Application Guide. For the online version, find the application section of the index and click the Guide number.

- **Determine Road Class and Type**
 - **Arterial Highways** Two-Way Two-Lane and Multi-Lane Guide **A**
 - **Collector Highways** Multi-Lane Guide **A**
 - **Collector Highways** Two-Way Two-Lane Guide **B**
 - **Local Highways** Multi-Lane Guide **A**
 - **Local Highways** Two-Way Two-Lane Guide **B**
 - **Urban Residential Streets** Multi-Lane and One Way Guide **A**
 - **Urban Residential Streets** Two-Way Two-Lane Guide **C**
 - **Roundabouts** Guide **D**

- **Determine Encroachment on Road OR Special Operation**
 - Off Shoulder Work
 - Shoulder Work
 - Partial Lane Closure (not permitted on Arterial or Multi-Lane Highways)
 - Lane Closure

- **Determine Work Duration**
 - Mobile Operation continuously moving
 - Very Short Duration Work less than 30 minutes
 - Short Duration Work less than 24 hours continuous work
 - Long Duration more than 24 hours continuous work

- **Special Operations**
 - Centreline & Lane Line Painting
 - Mobile Continuous
 - Mobile Intermittent
 - Dynaflect tests and surveys
 - Mechanical pothole patcher
 - Survey Crew
 - Observer

Refer to Section 14.0 Set-Up and Take-Down for approved procedures for placing and removing signs and devices.



15.1 Application Guides 'A': Arterial Highways (Two-Way Two-Lane, Double Post, and Multi-Lane)

The **Application Guides: Arterial Highways** (Guide A) apply to all of the following:

- Two-Way Two-Lane Arterial Highways.
- Multi-Lane Arterial Highways.
- Multi-Lane Collector and Local Highways and nominal two-way two-lane highways where the Work Area is on a climbing lane section.
- Multi-Lane Urban/Residential Streets.

The **Application Guides: Arterial Highways** (Guide A) may apply to two-way two-lane Collector Highways when:

- The Summer Average Daily Traffic (SADT) exceeds 2000 vpd.
- Traffic speed or driver expectations make a higher level of signing prudent.

Unless specified differently in a particular Application Guide, all signs on two-lane Arterial Highways must be:

- Displayed on **both** approaches to the Work Area on two-way highways.
- Displayed on **both** approaches to the Work Area on two-way highways with a multi-lane approach to the Work Area (climbing lanes or turning lanes).

Unless specified differently in a particular Application Guide, all signs on Multi-Lane Highways must be:

- Double-posted (same signs on both sides of the highway), **except**
 - In advance of Shoulder Work.
 - One lane interchange ramps.
 - Signs should be positioned on the left side of short radius ramps.
 - Multi-Lane undivided streets with 50 km/h or less.

- Displayed on **both** approaches to the Work Area on undivided multi-lane highways.
- Displayed **only** on the approach to the Work Area on divided multi-lane highways with a non-traversable median (wide median or median barrier).

Signs depicting human activity must display two red-orange flags, consistent with Section 11.0 of this Manual.

Regulatory signs:

- Must only be erected by the appropriate Traffic Authority for the street or highway under consideration.
- Must conform to regulatory signs depicted in the *Province of Prince Edward Island Schedule of Official Highway Signs*.
- Must be securely mounted on permanent signposts, **except**
 - Speed zone signs for Short Duration Work may be mounted on temporary sign supports.

All temporary condition warning and regulatory signs must be removed or covered immediately when they are no longer applicable. This includes both when the Work Area becomes inactive and when the job is completed.

Refer to Section 14.0 Set-Up and Take-Down for approved procedures for placing and removing signs and devices.



15.2 Application Guides ‘B’: Collector and Local Highways

The Application Guides: Highways (Guides B) apply to:

- Two-Way Two-Lane Collector Highways.
- Two-Way Two-Lane Local Highways.

It does not apply to Urban/Residential Streets.

Two-Way Two-Lane Collector and Local Highways should be signed for using *the Application Guides for Arterial Highways* (Guides A) in special circumstances:

- At the discretion of the Traffic Control Manager.
- When directed by the Provincial Traffic Authority.
- When the Summer Average Daily Traffic (SADT) exceeds 2000 vpd.

Unless specified differently in a particular Application Guide, all signs on two-way highways must be displayed on both approaches to the Work Area.

Signs depicting human activity must display two red-orange flags, consistent with Section 11.0 of this Manual.

Regulatory signs:

- Must only be erected by the appropriate Traffic Authority for the street or highway under consideration.
- Must conform to regulatory signs depicted in the *Province of Prince Edward Island Schedule of Official Highway Signs*.
- Must be securely mounted on permanent signposts, **except**
 - Speed zone signs for Short Duration Work may be mounted on temporary sign supports.

All temporary condition warning and regulatory signs must be removed or covered immediately when they no longer apply. This means both when the Work Area becomes inactive and when the job is completed.

Refer to Section 14.0 Set-Up and Take-Down for approved procedures for placing and removing signs and devices.



15.3 Application Guides ‘C’: Urban/Residential

The **Application Guides: Urban/Residential** (Guides C) apply to Urban/Residential Streets only. An Urban/Residential Street is a street in an urban area with a maximum 50 km/h speed zone.

Unless specified differently in a particular Application Guide, all signs on two-way Urban/Residential Streets must be displayed on the right-hand side of each approach to the Work Area.

Roadway and work site conditions for a particular location may vary significantly from the typical condition depicted in the guides. Exercise good technical judgement in the design of the temporary workplace traffic control plan. Use additional signs, markings, devices, and worker protection if they seem necessary. In locations with very congested roadsides, it may be necessary to place signs closer than the specified minimum distances. This should only be done after completion of a detailed hazard assessment of the risk associated with using shorter sign spacing, and a written report has been placed in the Workplace Traffic Plan (WTP) permanent file.

Signs depicting human work activity must display two red-orange flags, consistent with Section 11.0 of this Manual.

Regulatory signs:

- Must only be erected by the appropriate Traffic Authority for the street under consideration.
- Must conform to the regulatory signs depicted in the *Province of Prince Edward Island Schedule of Official Highway Signs*.
- Must be securely mounted on permanent signposts, **except**
 - Speed zone signs for Short Duration Work may be mounted on temporary sign supports.

All temporary condition warning and regulatory signs must be removed or covered immediately when they no longer apply, both when the Work Area becomes inactive and when the job is completed.

Refer to Section 14.0 Set-Up and Take-Down for approved procedures for placing and removing signs and devices.



15.4 Application Guides ‘D’: Roundabouts

The Application Guides: Roundabouts (Guides D) apply to roundabouts only. Roundabouts will be on sections of Arterial Highways, Collector and Local Highways, and Urban/Residential Streets.

Roundabouts can be challenging for temporary construction and maintenance activities because of the many unique roundabout configurations that exist. As a result, work at or near roundabouts will often require a customized Traffic Control Plan that should appropriately consider:

- The number of approaches.
- The number of entry/exit lanes on each approach.
- The number of circulatory lanes.
- The presence of pedestrian/cyclist lanes and crossings.
- Tractor trailers and other long or oversized vehicles.

Signage plans must be approved by the engineer. Where possible, it is desirable to simplify traffic control requirements by temporarily eliminating certain entry/exit movements from the roundabout.

Unless specified differently in a particular Application Guide, all signs on Multi-Lane approaches to the Work Area must be displayed on both approaches.

Roadway and work site conditions for a particular location may vary from the typical condition depicted in the guides. Exercise good technical judgement in the design of the temporary workplace traffic control plan. Use additional signs, markings, devices, and worker protection if they seem necessary.

Signs depicting human work activity must display two red-orange flags, consistent with Section 11.0 of this Manual.

Regulatory signs:

- Must only be erected by the appropriate Traffic Authority for the street under consideration.
- Must conform to the regulatory signs depicted in the *Province of Prince Edward Island Schedule of Official Highway Signs*.
- Must be securely mounted on permanent signposts, **except**
 - Speed zone signs for Short Duration Work may be mounted on temporary sign supports.

All temporary condition warning and regulatory signs must be removed or covered immediately when they no longer apply, both when the Work Area becomes inactive and when the job is completed.

Refer to Section 14.0 Set-Up and Take-Down for approved procedures for placing and removing signs and devices.



15.5 Application Guides ‘A’, ‘B’, ‘C’ and ‘D’: Utility Work

The Application Guides are applicable to Utility Work unless otherwise expected.

Given the urgent nature of Utility Work, its short on-site duration, and limited space on line trucks, the following exceptions to the Application Guides are approved.

General Exception

The Utilities have developed, through a complete and thorough hazard assessment and review process with the Traffic Authority and the appropriate Health and Safety Enforcement organization, their own traffic control manual, which is properly taught and followed by employees performing the work. A 75 cm x 75 cm roll-up sign may replace a 90 cm x 90 cm sign when used on a high mount portable base.

Exceptions – Arterial Highways (Guide A)

- TC-114(PEI) Overhead Utility Work may be used in place of TC-2 Road Work for line work that does not include excavations.
- TC-4 Construction Ends may be omitted, unless TC-171(PEI) Speed Fines Double in Work Areas is used.
- A high intensity halogen FLB or appropriate combination of multiple lights may be substituted for a FLU. Double Posting of signs is not required.
- Partial Lane Closures may be implemented if both of the following conditions are met:
 - The appropriate typical application from Highways (Guide B) is followed.
 - The centreline is not altered.
- The Temporary Work Area may cover a section of 2 km if the utility operation is a Moving Operation requiring a line truck to move from pole to pole.
- Trail Vehicles may be omitted when clear and adequate sight distance is available.

Exceptions – Collector and Local (Guide B)

- TC-114(PEI) Overhead Utility Work may be used in place of TC-2 Road Work for line work that does not include excavations.
- TC-4 Construction Ends may be omitted, unless TC-171(PEI) Speed Fines Double in Work Areas is used.
- A high intensity halogen FLB or appropriate combination of multiple lights may be substituted for a FLU.
- The Temporary Work Area may cover a section of 2 km if the utility operation is Shoulder Work or a Partial Lane Closure requiring a line truck to move from pole to pole. Cones are only required around the truck when workers are on the road.
- Trail Vehicles may be omitted when clear and adequate sight distance is available.

Exceptions – Urban/Residential (Guide C)

- TC-114(PEI) Overhead Utility Work may be used in place of TC-2 Road Work for line work that does not include excavations.
- TC-4 Construction Ends may be omitted, unless TC-171(PEI) Speed Fines Double in Work Areas is used.
- A high intensity halogen FLB or appropriate combination of multiple lights may be substituted for a FLU.
- The Temporary Work Area may cover a section of 2 km if the utility operation is a Moving Operation requiring a line truck to move from pole to pole.
- Trail Vehicles may be omitted when clear and adequate sight distance is available.

Warning

Never carry out line work over a travel lane open to traffic. If the boom must extend over a lane, implement a partial or full lane closure.



15.6 Application Guides 'A', 'B', 'C' and 'D': Special Operations

The **Application Guides for Special Operations** provide a safe method of carrying out work using methods or equipment that does not easily fit into the system of Work Duration or Roadway Encroachment used throughout this manual.

The Special Operations Guides provide for Mobile Intermittent Moving Operations and allow limited work in a travel lane from a Work Area on the shoulder. Lane Line Painting, which is a Mobile Continuous Moving Operation, is included in this section because it uses a special set of signs and because some traffic regulation can be provided from the Work Vehicle (the paint truck).

Operators of Trail Vehicles, Protection Vehicles, and Work Vehicles must be specifically trained for Mobile Intermittent Machine Operations.

Operators of all vehicles involved in Mobile Intermittent Machine Operations must remain in constant radio contact.

Workers must not be on the roadways as part of a Mobile Intermittent Machine Operation.

Using an Observer on Two-Way Two-Lane Roads

An Observer watches for and warns of approaching traffic when another worker is on the travel lane of a road. When using an Observer, sign the Temporary Work Area for Very Short Duration or Short Duration shoulder work. The worker enters the travel lane from the shoulder and performs a brief task using only hand tools.

Observers must only be used on two-way two-lane roads because drivers on a multi-lane road may be unaware of the workers and may suddenly change lanes into the Work Area. An Observer could not provide timely warning of such an event.



15.7 Blending Application Guides

One Application Guide may not always provide a safe or complete solution. Traffic Control Managers (TCMs) may need to create a solution by blending elements from more than one Application Guide.

Blending gives Traffic Control Managers (TCMs) flexibility to adjust existing Manual solutions in response to workplace variability. The solutions used while blending must be appropriate to the circumstances and approved elsewhere in this Manual. Blending is not intended to enable Traffic Control Managers (TCMs) to create a new way to do something if there is already a solution in the Manual. New solutions require formal approval, such as by a change to the Manual.

Blending is required in the following circumstances:

Intersection solutions exist only in the 'C' Application Guides. Where an intersection solution is needed for an 'A' or 'B' Application Guide, Traffic Control Managers (TCMs) must take the 'C' Guide solution and apply sign, device, marking, speed and distance values from an 'A' or 'B' Guide, as applicable. Where an Application Guide from the 'A' or 'B' Guides would typically have more or different Temporary Condition Signs in the approach sequence, or a higher standard of delineator, or vehicle, etc., the higher standard must always be applied to the blended solution.

Guides may be blended with another Application Guide that matches the road class, speed, encroachment, traffic volumes, and duration for the actual workplace under consideration.

The following are specific 'A', 'B' and 'C' Application Guides that are usually, blended with other Guides.

- For 'A' Guides, A 72, A 73 and A 74 are typically, but not necessarily, used in blended solutions.
- For 'B' Guides, B 72, B 73 and B 74 are typically, but not necessarily, used in blended solutions.
- For 'C' Guides, C 72 and C 73 are typically, but not necessarily, used in blended solutions.

Blending is allowed in the following circumstances:

- Subject to the conditions and restrictions that follow, standards from:
 - 'A' Guides may be applied to 'B' and 'C' Application Guides.
 - 'B' Guides may be applied to 'C' Application Guides.
- Standards from within an Application Guide series may be used for blended solutions within the same series.

Conditions and Restrictions

Traffic Control Managers (TCMs) must exercise good technical judgment in the design and implementation of their blended solutions. These blended solutions must meet the standards for traffic management and safety for all road users, pedestrians, and workers as required by this Manual. If an existing solution is provided in the Manual, it must be used. Blending must not be used to circumvent existing solutions. A blended solution must be approved by the engineer.



Application Guides 'A'

Arterial Highways

<u>Work Location</u>	<u>Work Duration</u>	<u>Highway Type (Special Condition)</u>	<u>Guide</u>
Off Shoulder Work	All Durations	Two-Way or Multi-Lane	A 1
Shoulder Work	Very Short Duration	Two-Way or Multi-Lane	A 12
Shoulder Work	Short Duration	Two-Way or Multi-Lane	A 13
Lane Closed	Very Short Duration	Two-Way	A 33
Lane Closed	Short Duration	Two-Way (Day Work)	A 35
Lane Closed	Short Duration	Two-Way (Day Work, Long Queue)	A 36
Lane Closed	Short Duration	Two-Way (Night Work)	A 37
Lane Closed	Short Duration	Two-Way (Climbing Lane, Right Lane Closed)	A 45
Lane Closed	Short Duration	Two-Way (Climbing Lane, Centre Lane Closed)	A 46
Lane Closed	Short Duration	Two-Way (Climbing Lane, Downhill Closed)	A 47
Lane Closed	Short Duration	Two-Way (Paved Shoulders)	A 48
Lane Closed	Long Duration	Two-Way (Traffic Control Signals)	A 51
Lane Closed	Very Short Duration	Multi-Lane	A 62L
Lane Closed	Very Short Duration	Multi-Lane	A 62R
Lane Closed	Short Duration	Multi-Lane	A 63L
Lane Closed	Short Duration	Multi-Lane	A 63R
Two Lanes Closed	Short Duration	Multi-Lane	A 68

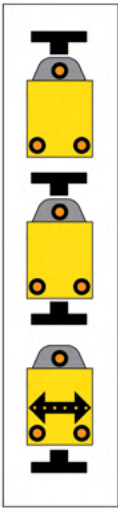
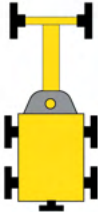
<u>Signing Illustration</u>	<u>Work Duration</u>	<u>Highway Type</u>	<u>Guide</u>
Construction Zone	Long Duration	Two-Way Multi-Lane	A 72
Construction and Long Patch	Long Duration	Two-Way Multi-Lane	A 73
Temporary Markings	Long Duration	Two-Way Multi-Lane	A 74
Temporary Haul Road	All Durations	Two-Way Multi-Lane	A 76
Detour	All Durations	Two-Way Multi-Lane	A 77
Low Shoulder	Short or Long Durations	Two-Way Multi-Lane	A 79

Special Operations

<u>Work Type</u>	<u>Work Duration</u>	<u>Highway Type</u>	<u>Guide</u>
Line Patching	Mobile Continuous	Two-Way	A 91
Survey Crew	Short Duration	Two-Way or Multi-Lane	A 93
Observer Workers	Very Short Duration	Two-Way	A 98
Seasonal Machine Operation	Mobile Intermittent	Two-Way	A 99

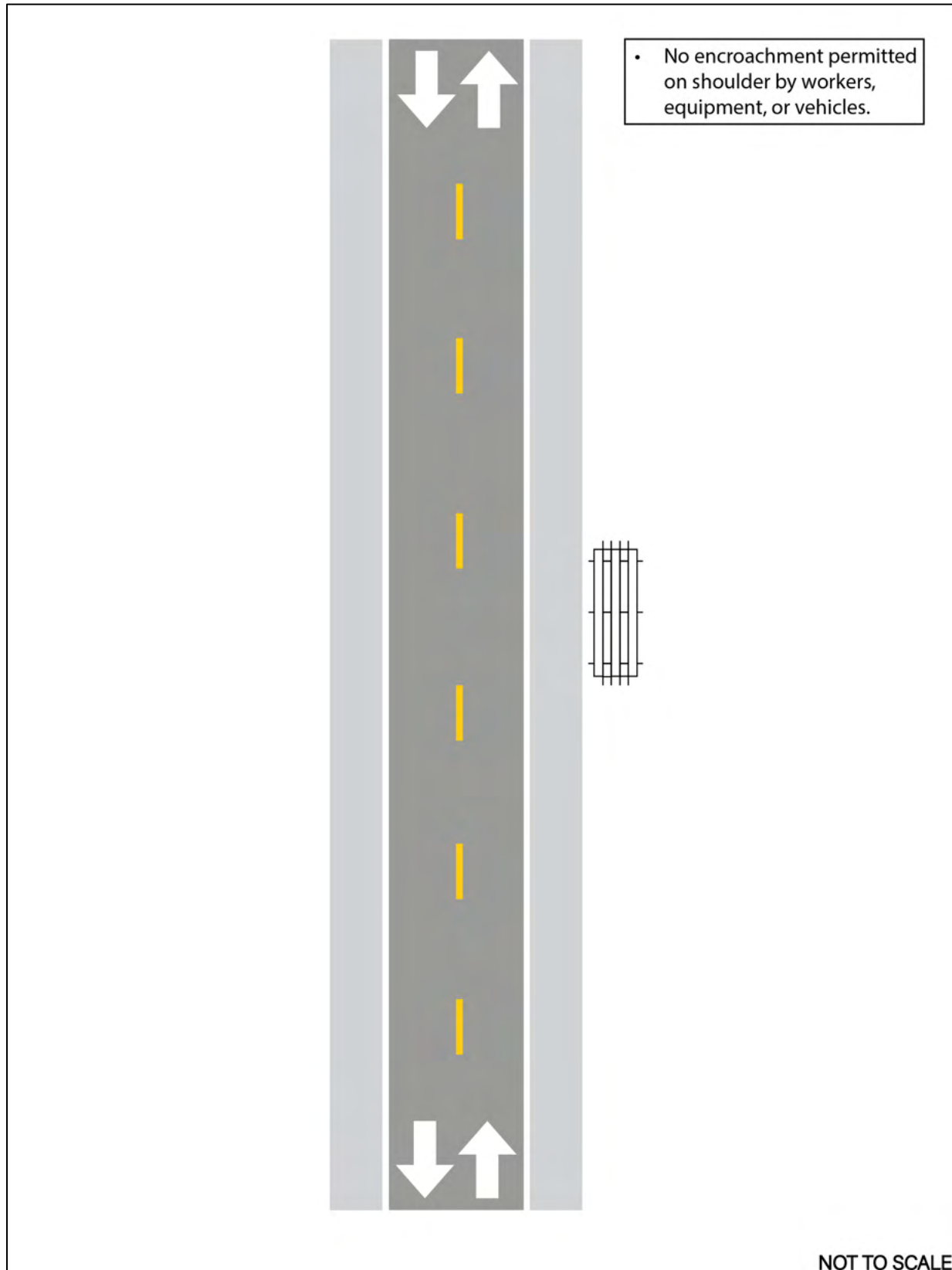


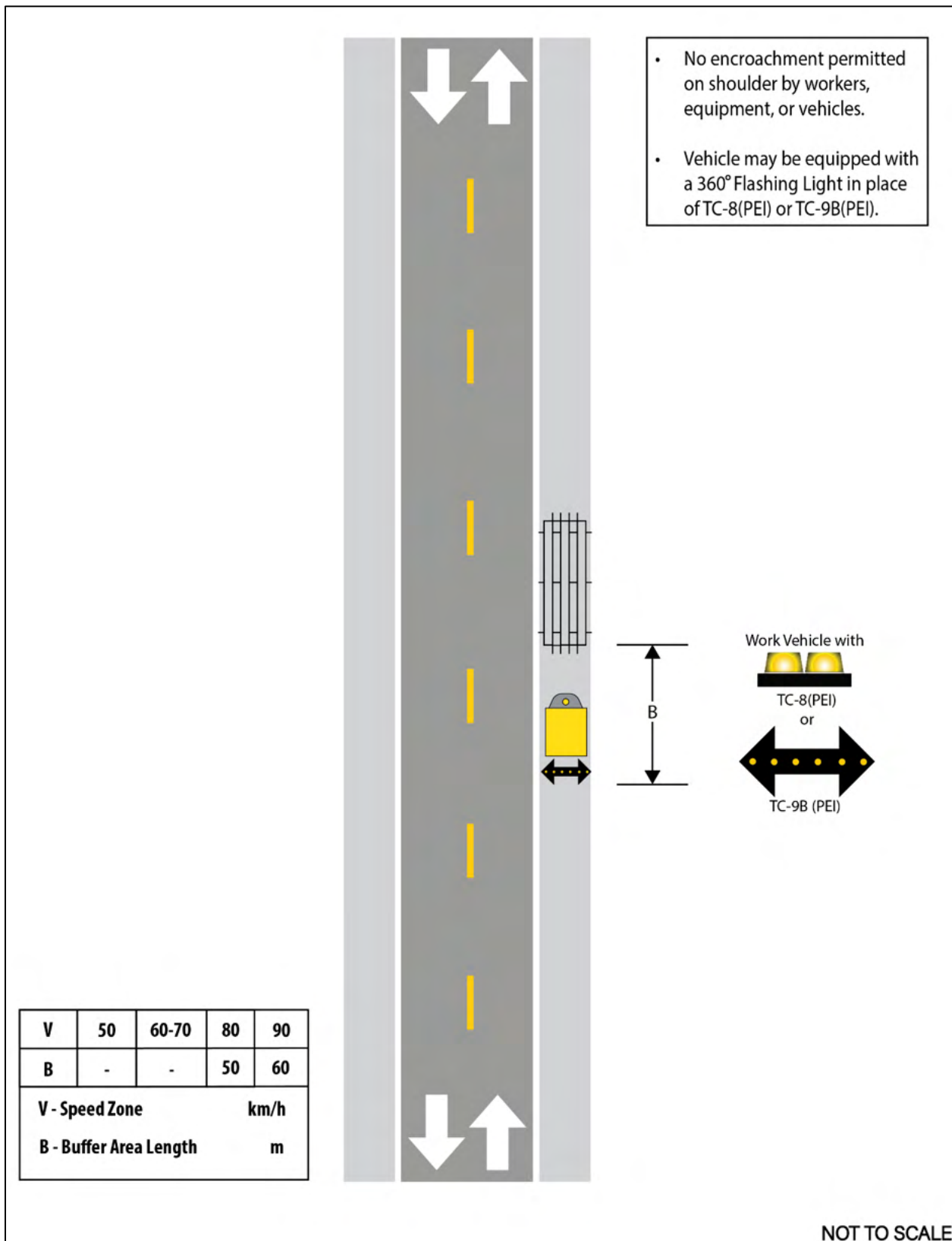
Legend of Symbols Used in Application Guides

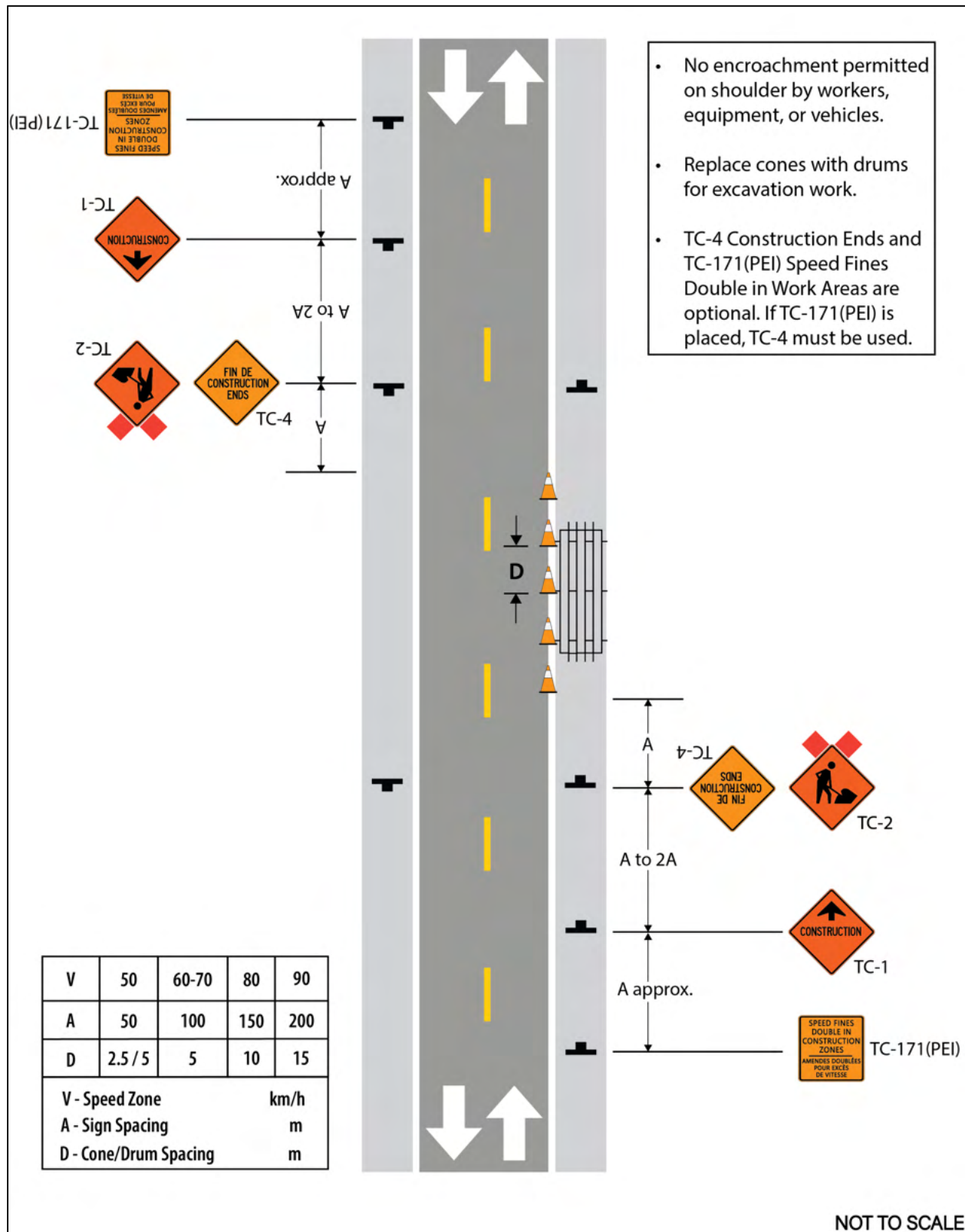
	Used to indicate the position of a single sign.		Used to indicate the position of a vehicle with a 360 degree flashing amber light. If the vehicle has a specific title or function, it will typically be labelled.
	Used to indicate the position of two signs displayed back to back.		Used to indicate the position of a vehicle with a 360 degree flashing amber light and a Flashing Light Unit. If the vehicle has a specific title or function, it will typically be labelled.
	Used to indicate the position of a barricade.		When labelled as such, used to indicate the position of a Trail Vehicle with a 360 degree flashing amber light and a Flashing Light Unit. If the vehicle requires specific signs they are typically shown beside the labelled vehicle.
	Used to indicate red orange flags on a sign as required by Section 11.0		
	Used to indicate the position of a traffic cone or high delineator.		Used to indicate the position of a Protection Vehicle with a truck mounted attenuator, a 360 degree flashing amber light, and a Flashing Light Unit.
	Used to indicate the position of a traffic drum.		
	When displayed alone, used to indicate the position of a Flashing Light Unit, with vehicle or trailer mounted (in Bar Mode).		
	Flashing Light Bars may be used as an alternative to Flashing Light Units in some applications.		
	Used to indicate the position of F-shaped barriers.		Used to indicate the position of line painting vehicles with, as applicable, 360 degree flashing amber lights, high mount flashing amber lights, signs, and a Flashing Light Unit.
	Used to indicate the position of traffic signals.		
	Used to indicate the position of Automated Flagger Assistance Devices (AFADs).		
	A yellow line is used to indicate the centreline of a road. White is used to indicate the lane line.		
	Used to indicate the direction of travel within a lane.		
	Used to indicate the position of the Work Area.		Used to indicate the position of a grader with a 360 degree flashing light, and a slow moving vehicle sign.
	Used to indicate a Traffic Control Person at the Control Position.		

NOT TO SCALE



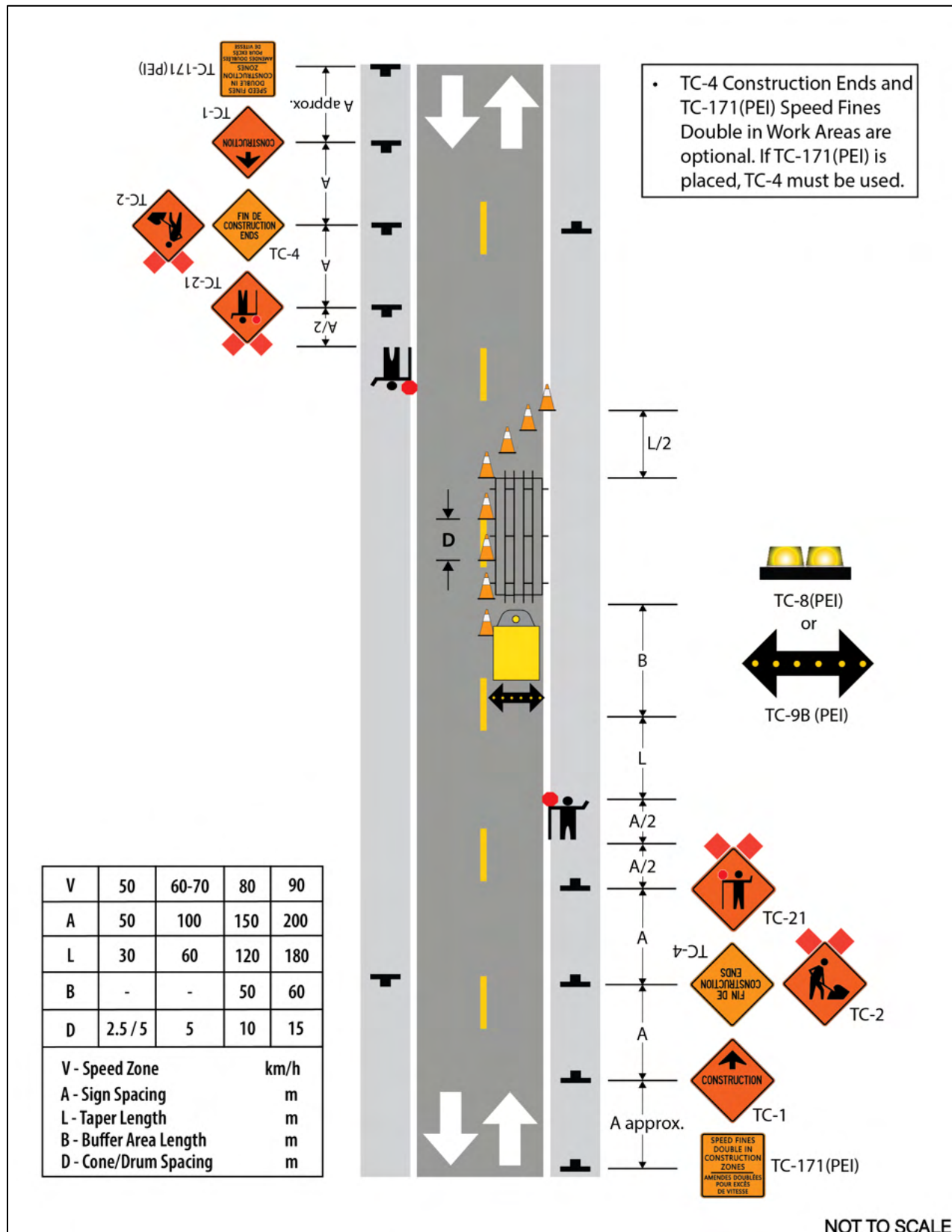


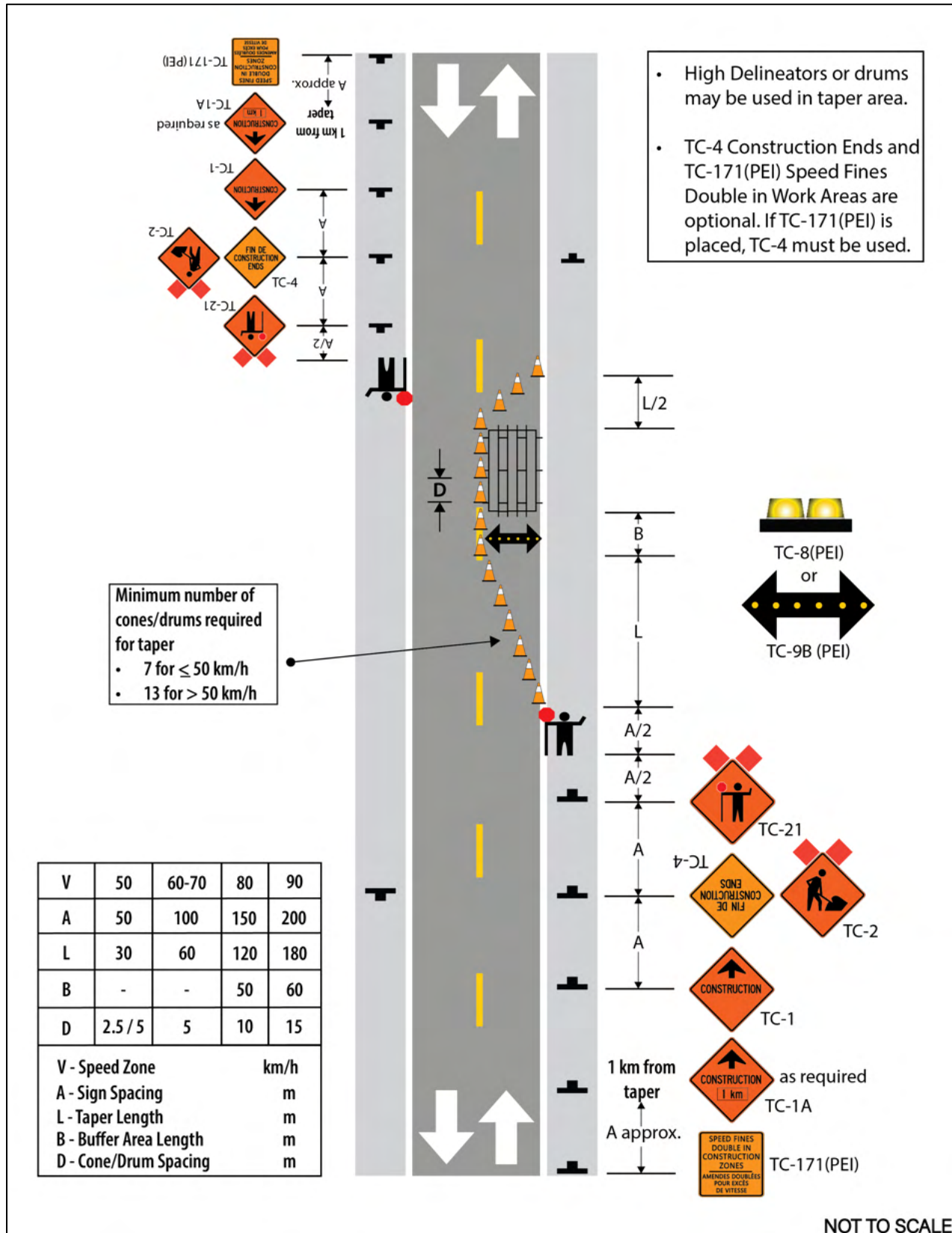


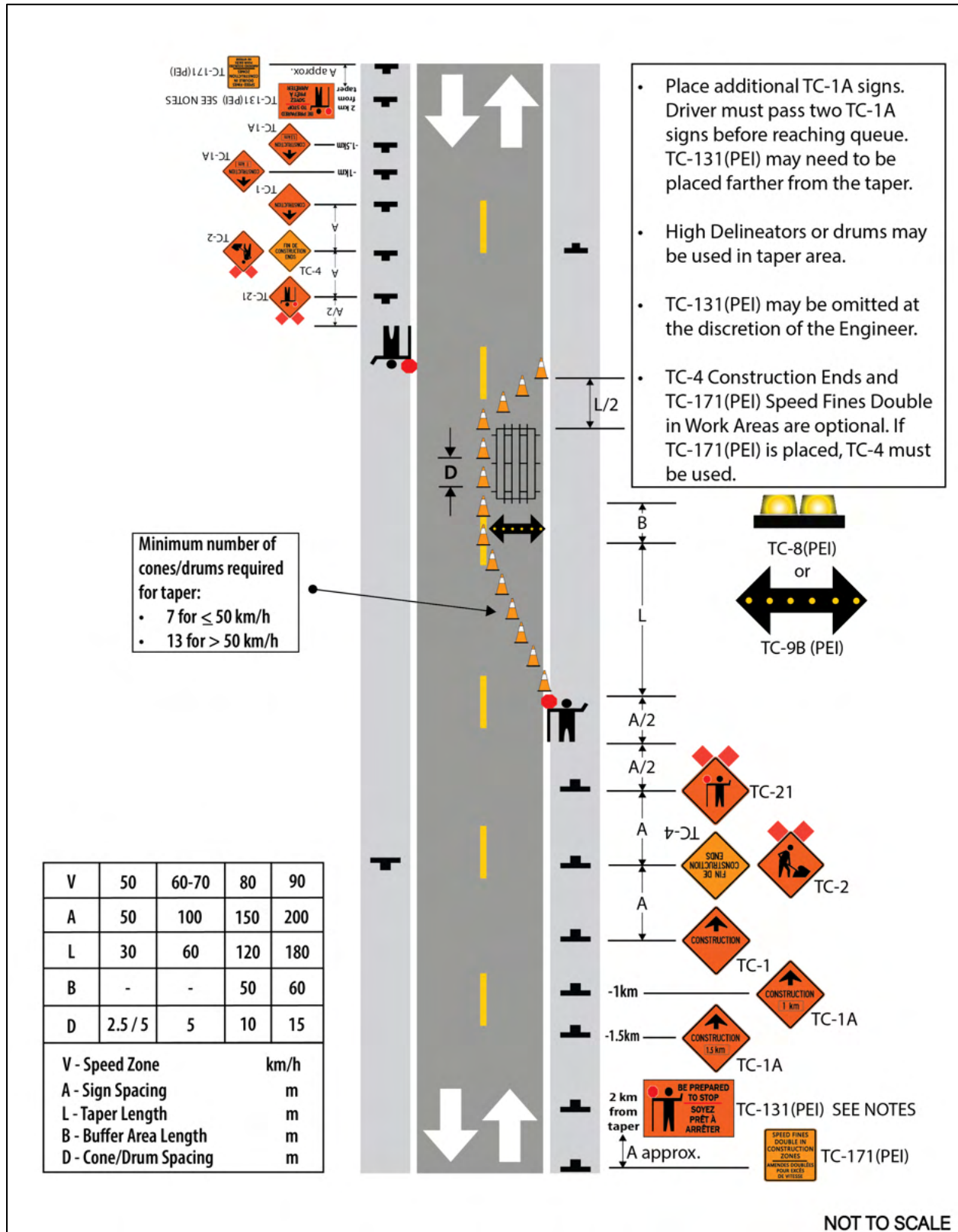


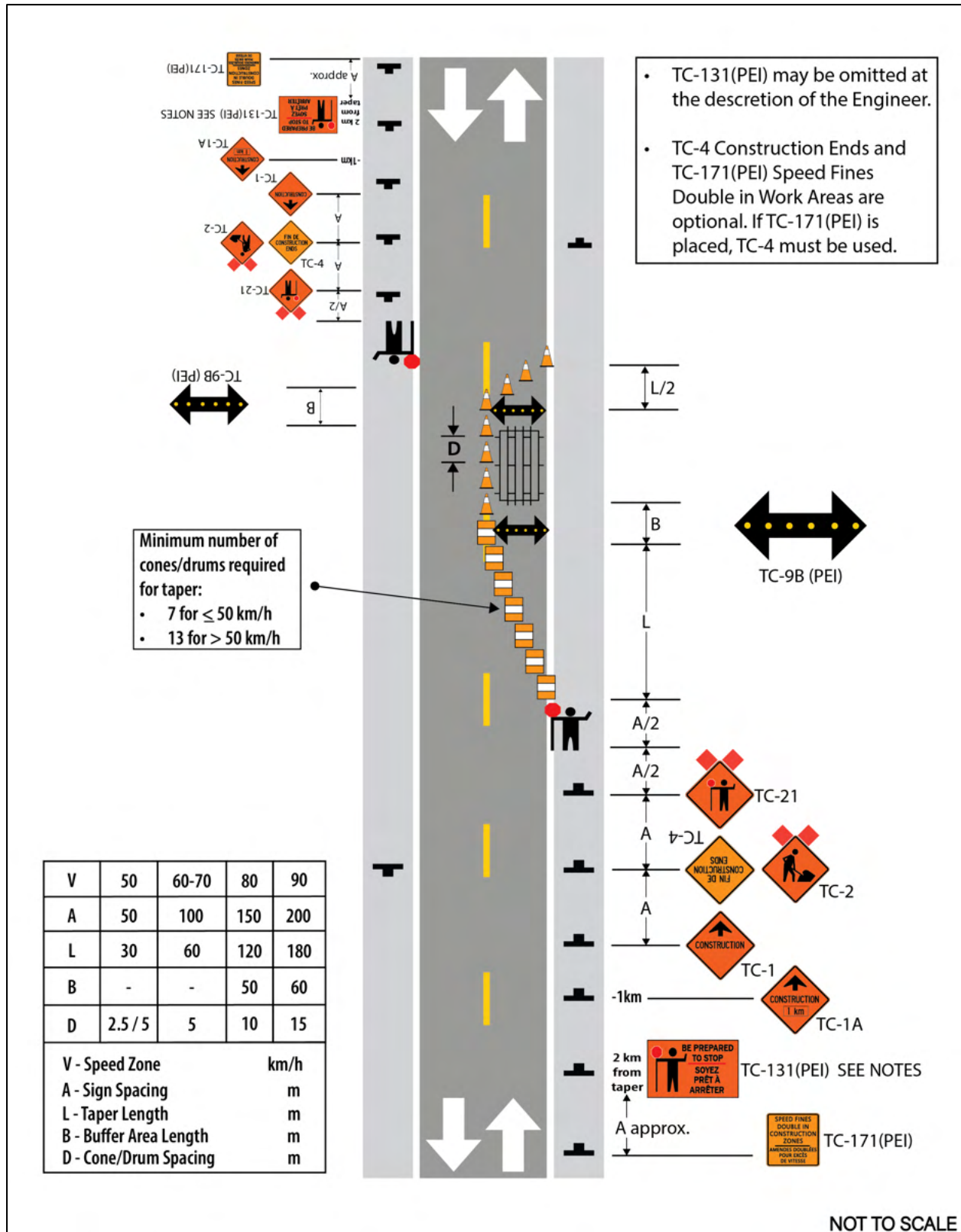
Lane Closed: Very Short Duration, Two-Way

Guide A 33







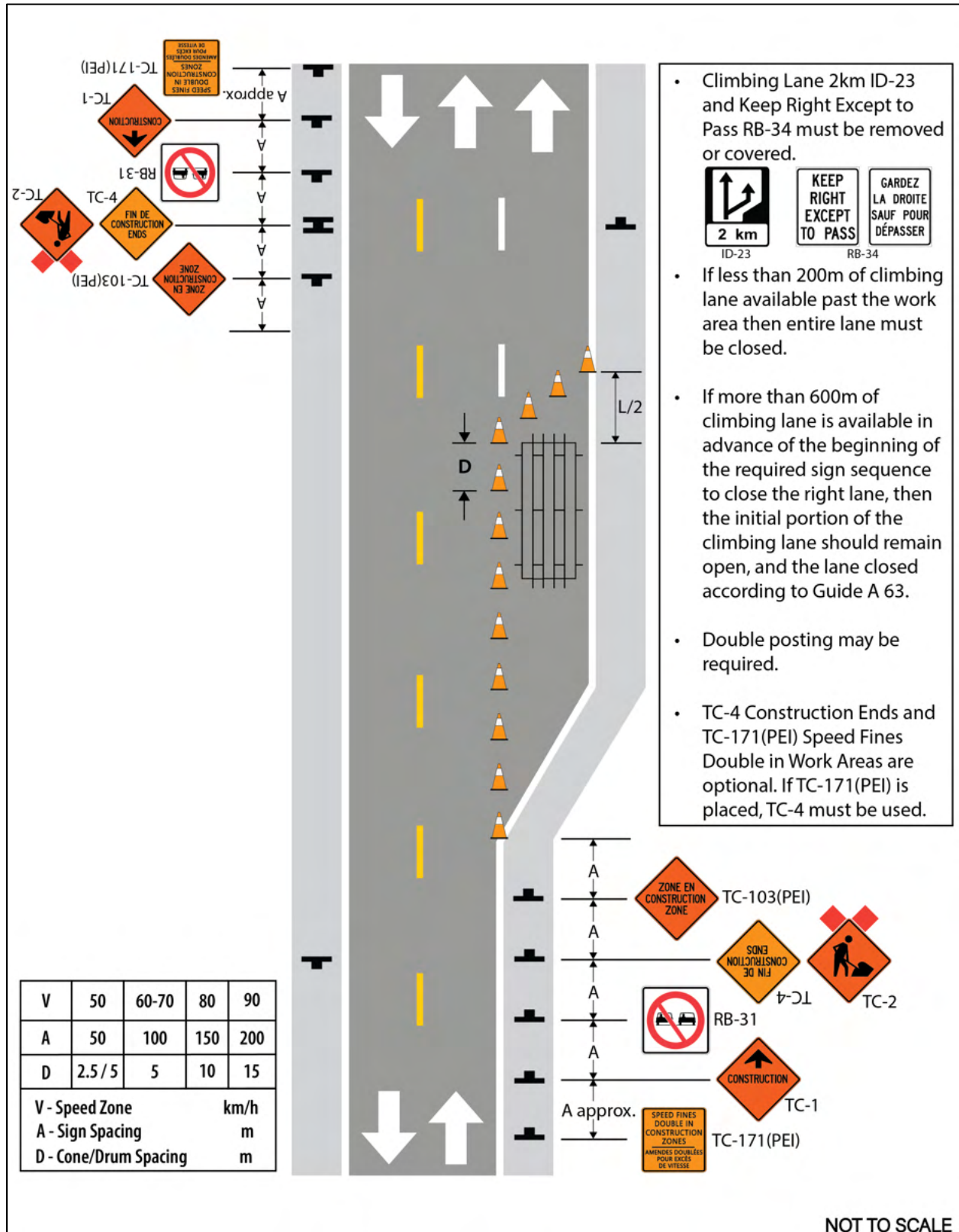


V	50	60-70	80	90
A	50	100	150	200
L	30	60	120	180
B	-	-	50	60
D	2.5 / 5	5	10	15

V - Speed Zone km/h
A - Sign Spacing m
L - Taper Length m
B - Buffer Area Length m
D - Cone/Drum Spacing m

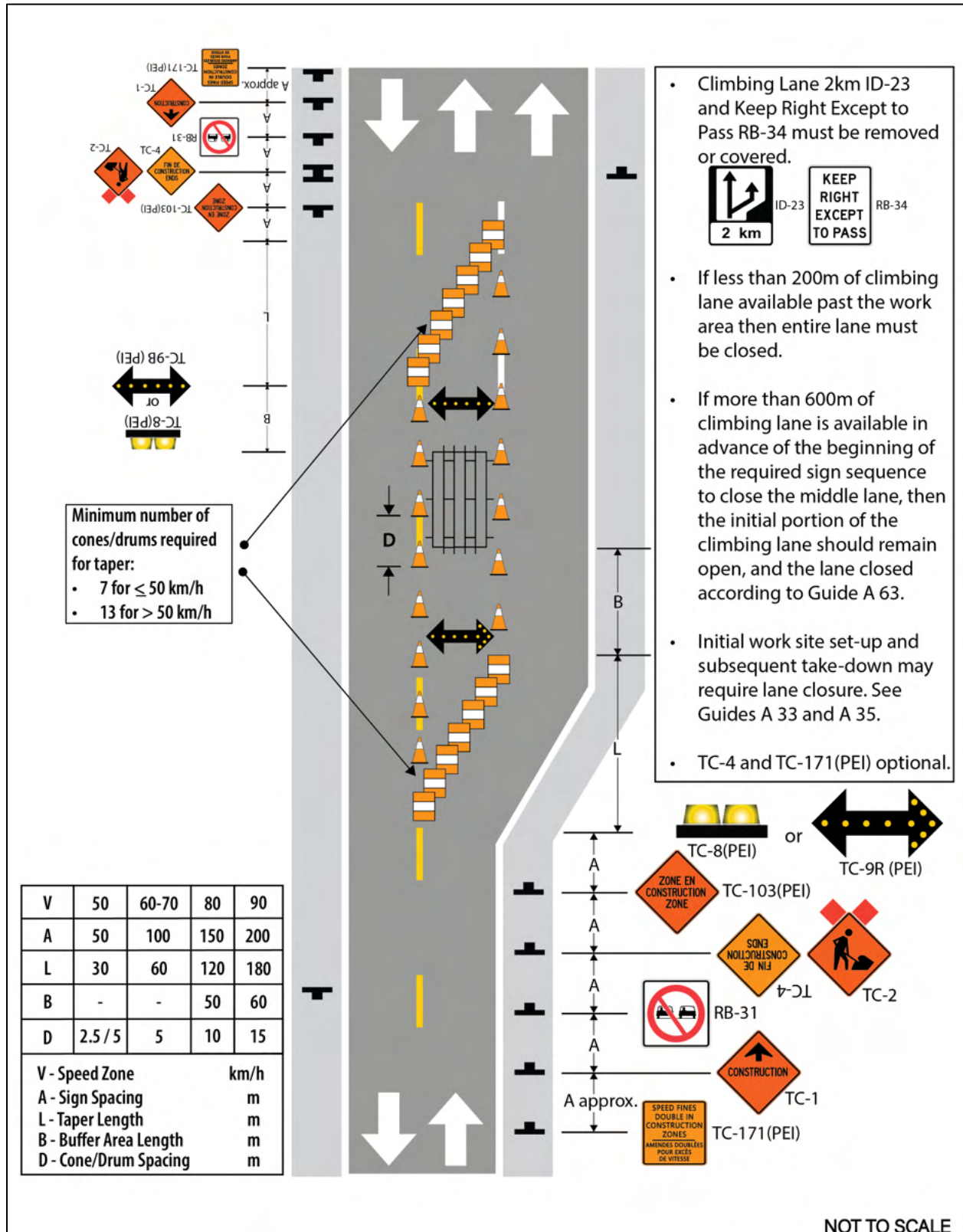
Lane Closed: Short Duration, Two-Way (Climbing Lane, Right Lane Closed)

Guide A 45



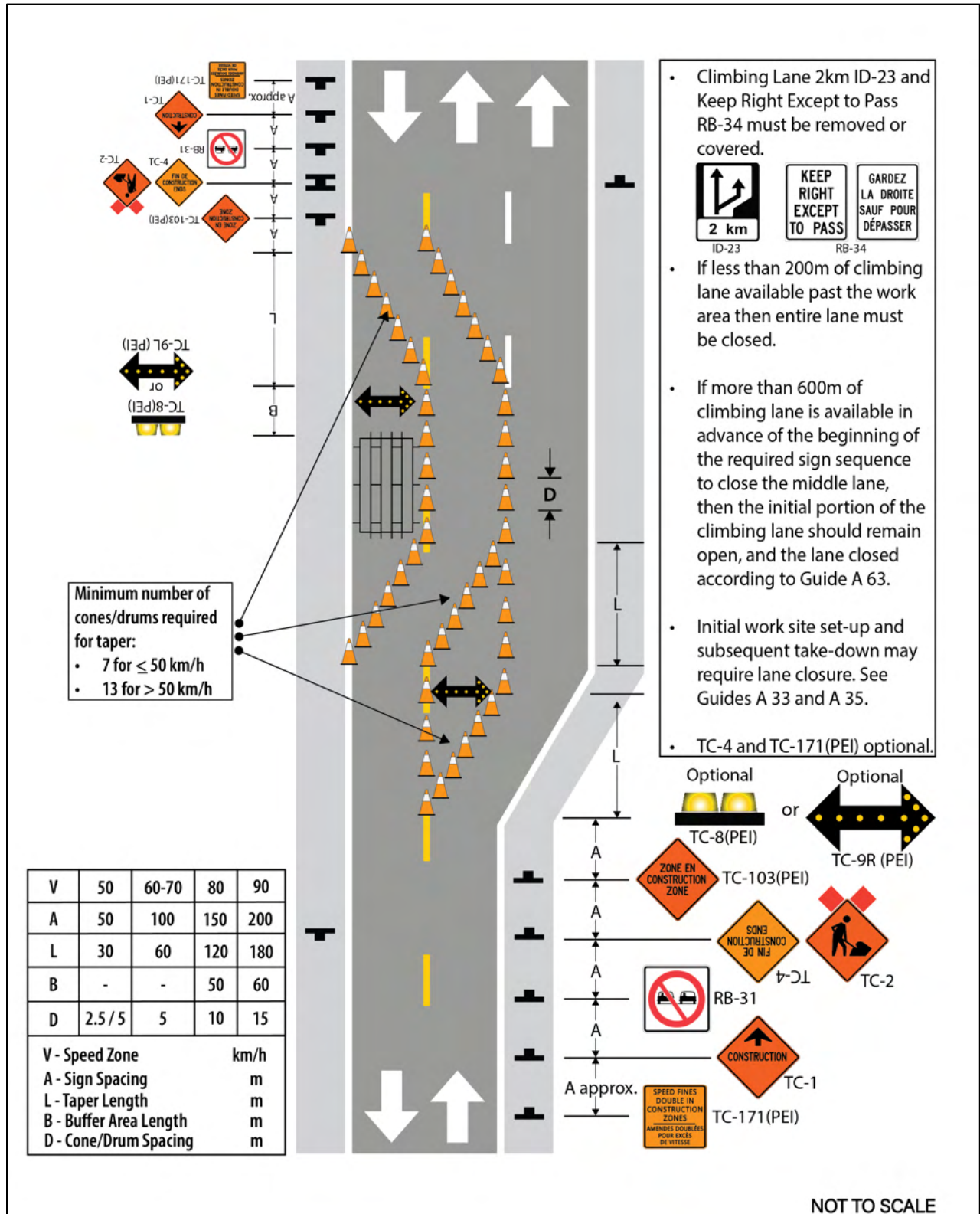
Lane Closed: Short Duration, Two-Way (Climbing Lane, Centre Lane Closed)

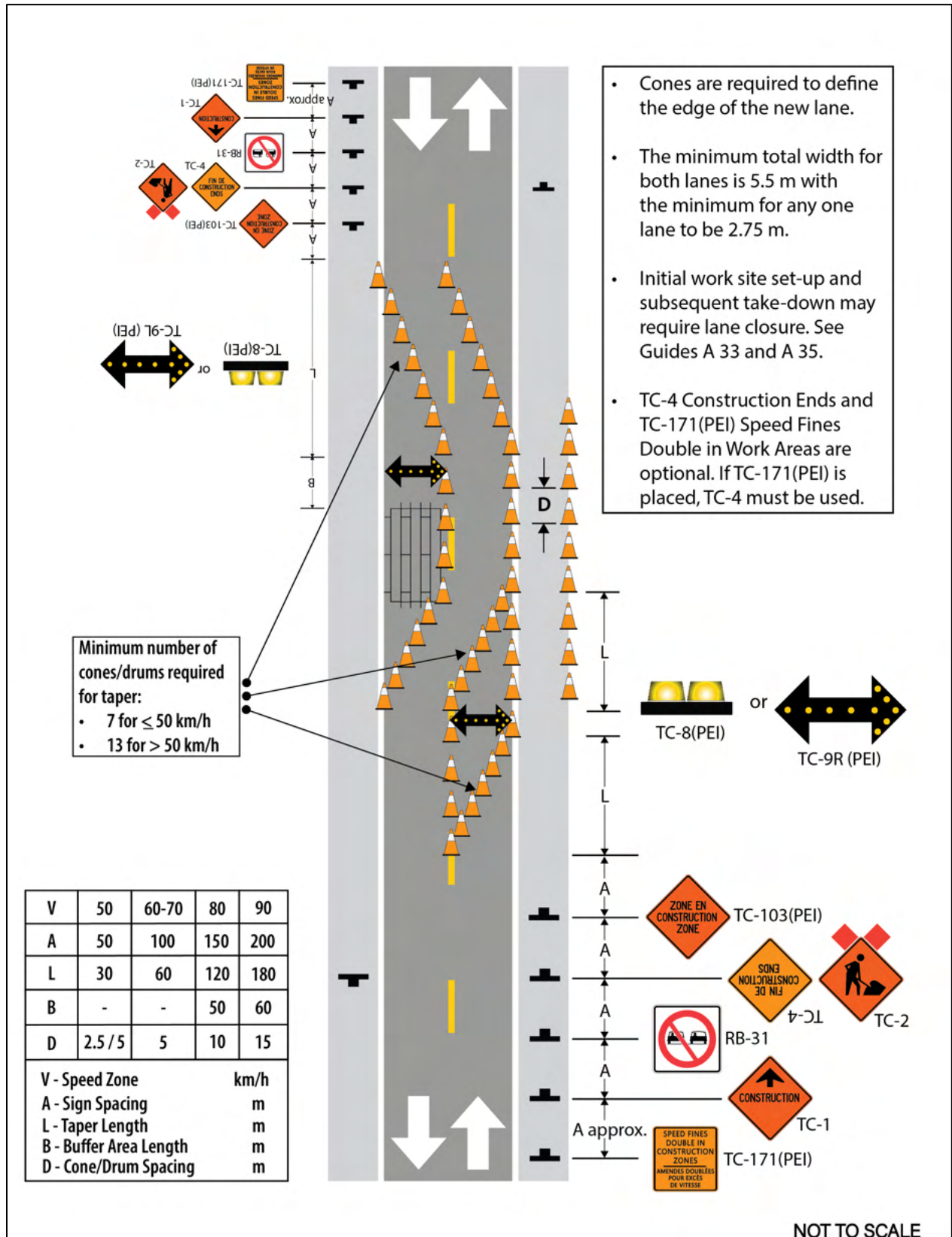
Guide A 46

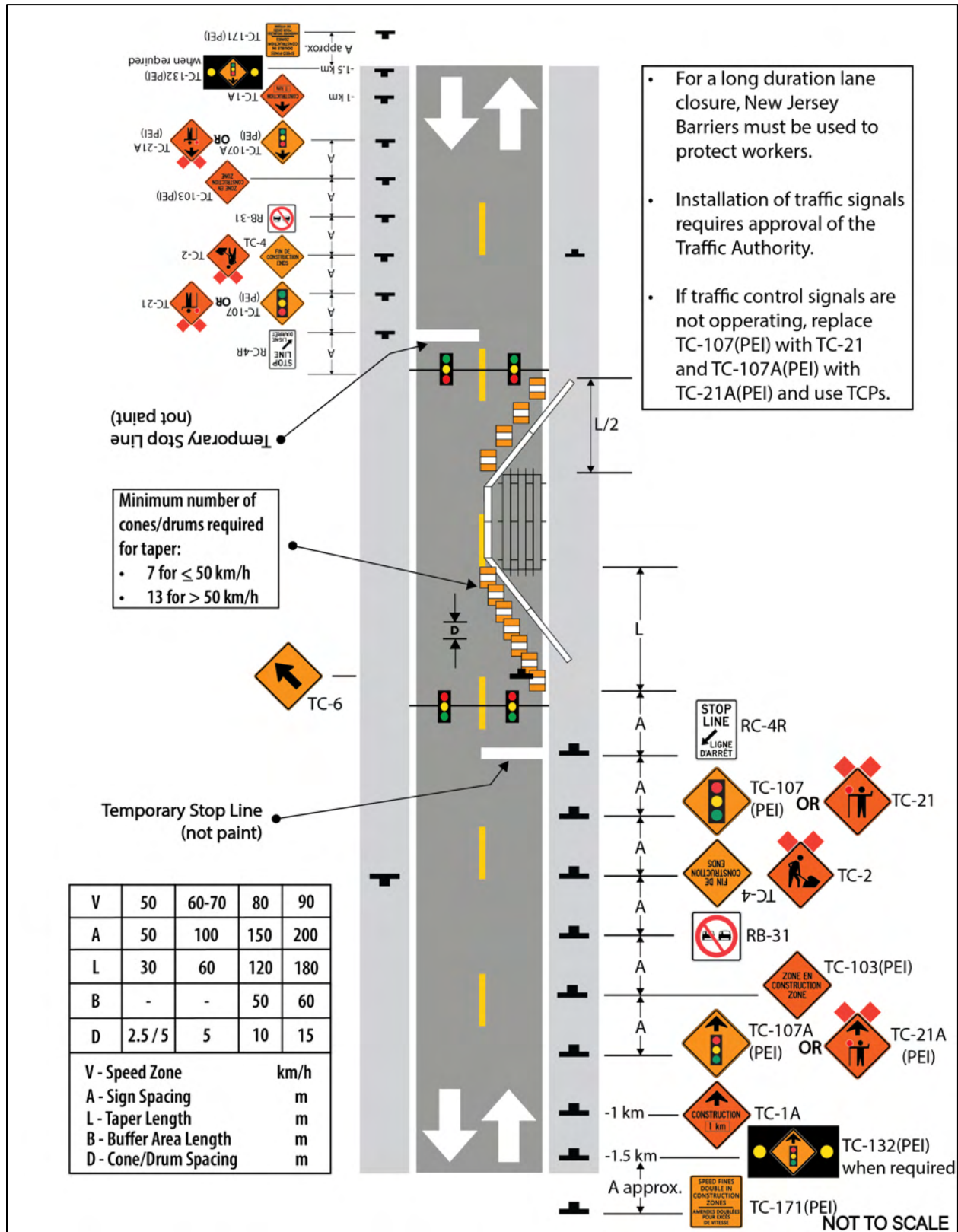


Lane Closed: Short Duration, Two-Way (Climbing Lane, Downhill Lane Closed)

Guide A 47

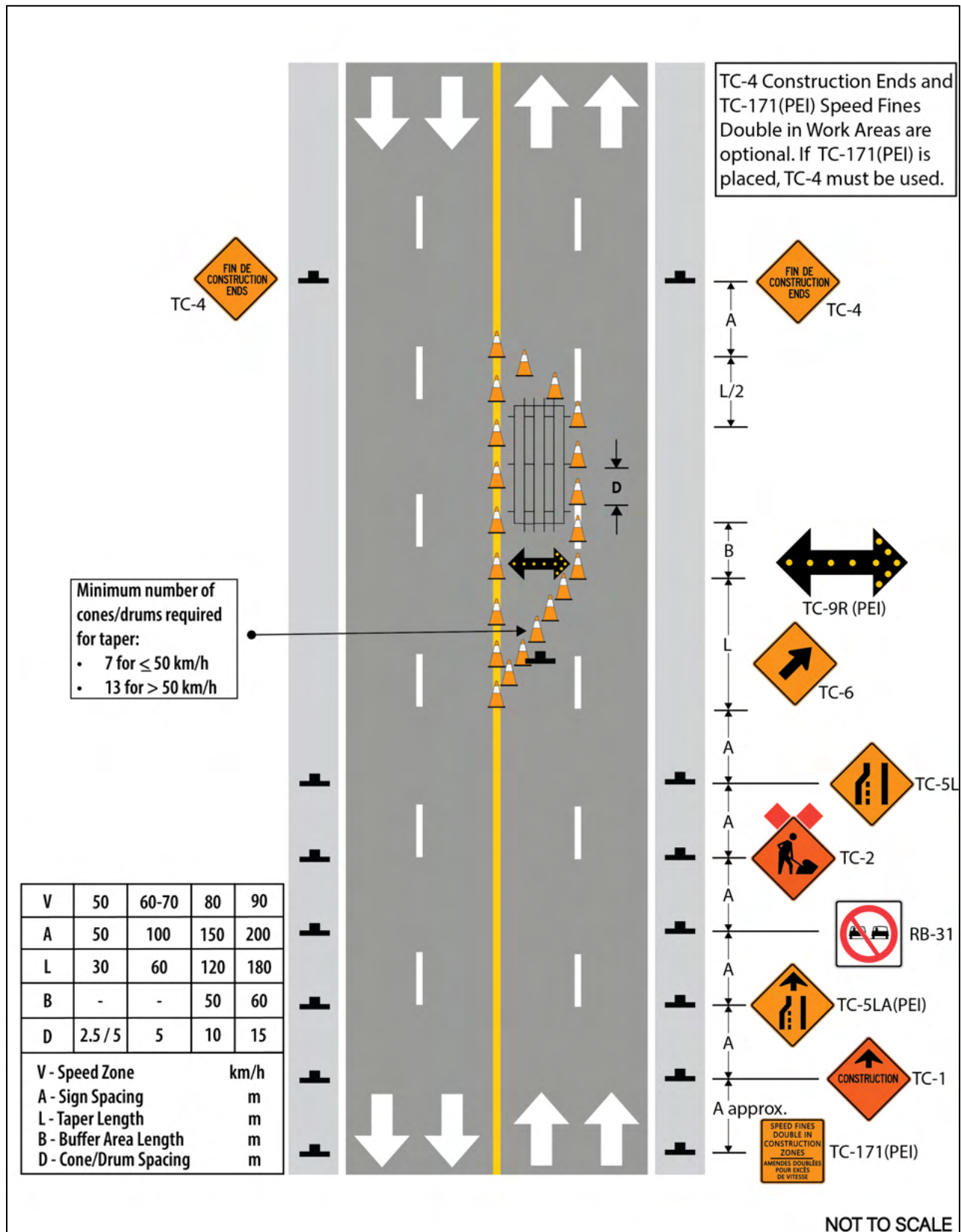






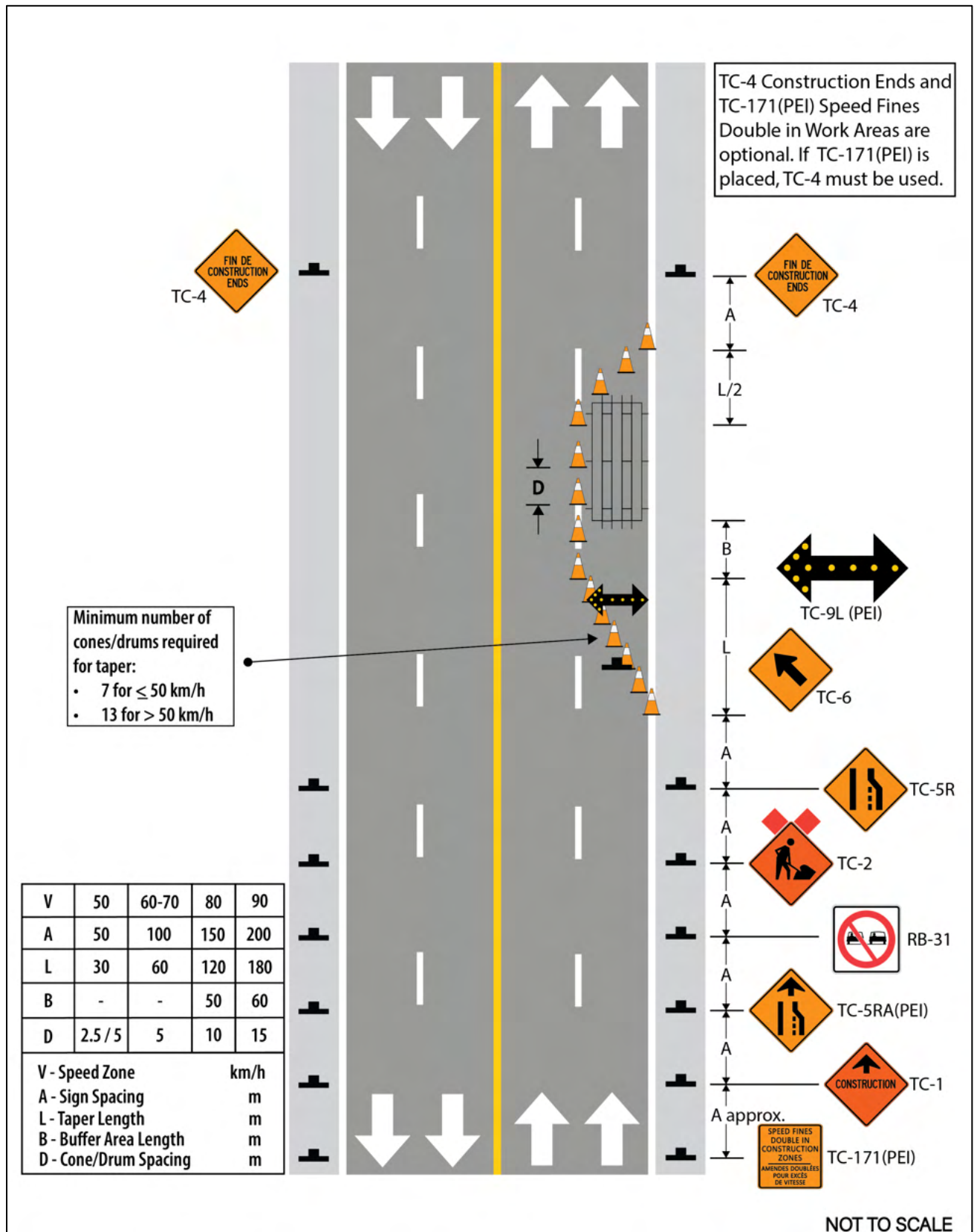
Lane Closed: Very Short Duration, Multi-Lane

Guide A 62L



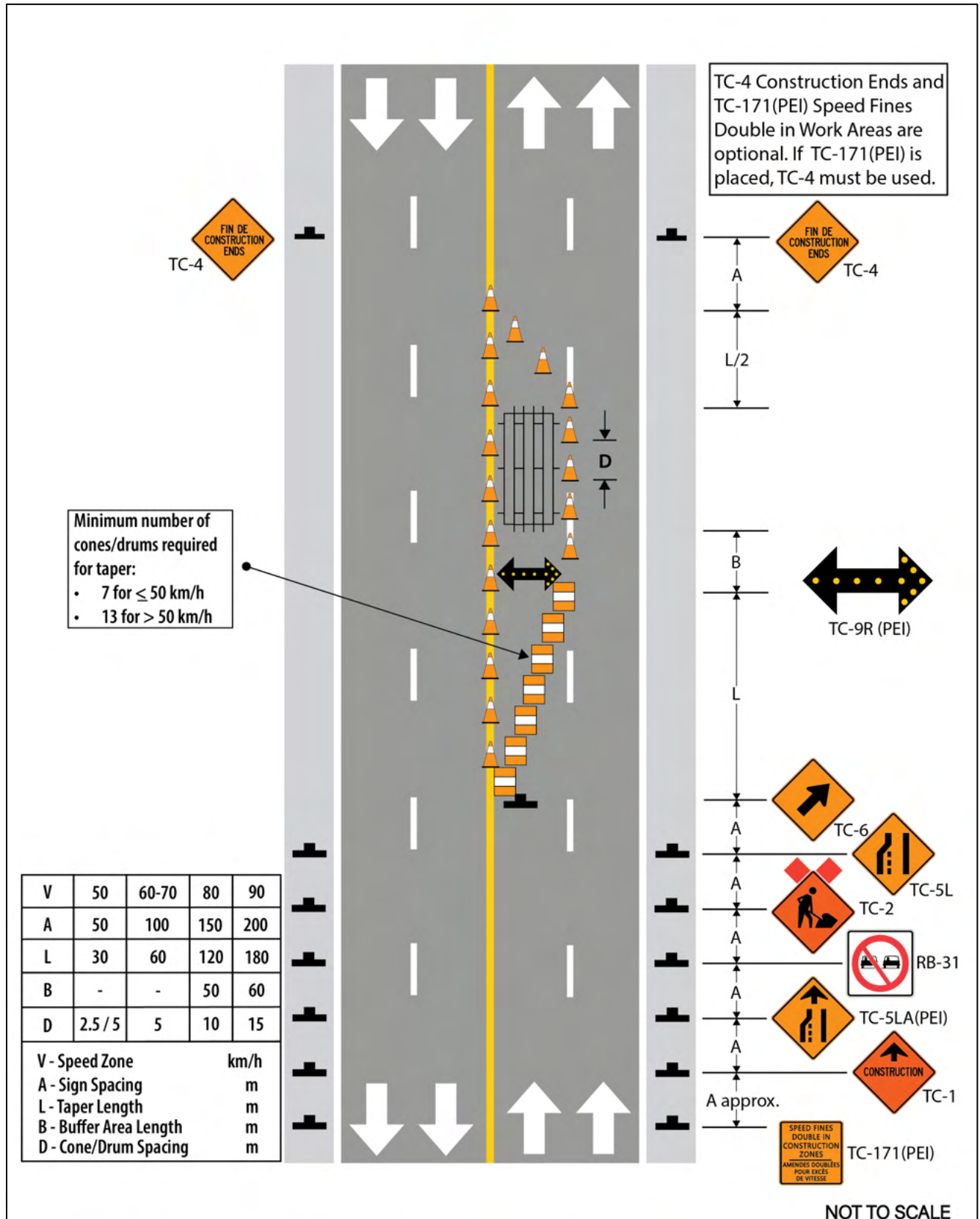
Lane Closed: Very Short Duration, Multi-Lane

Guide A 62R



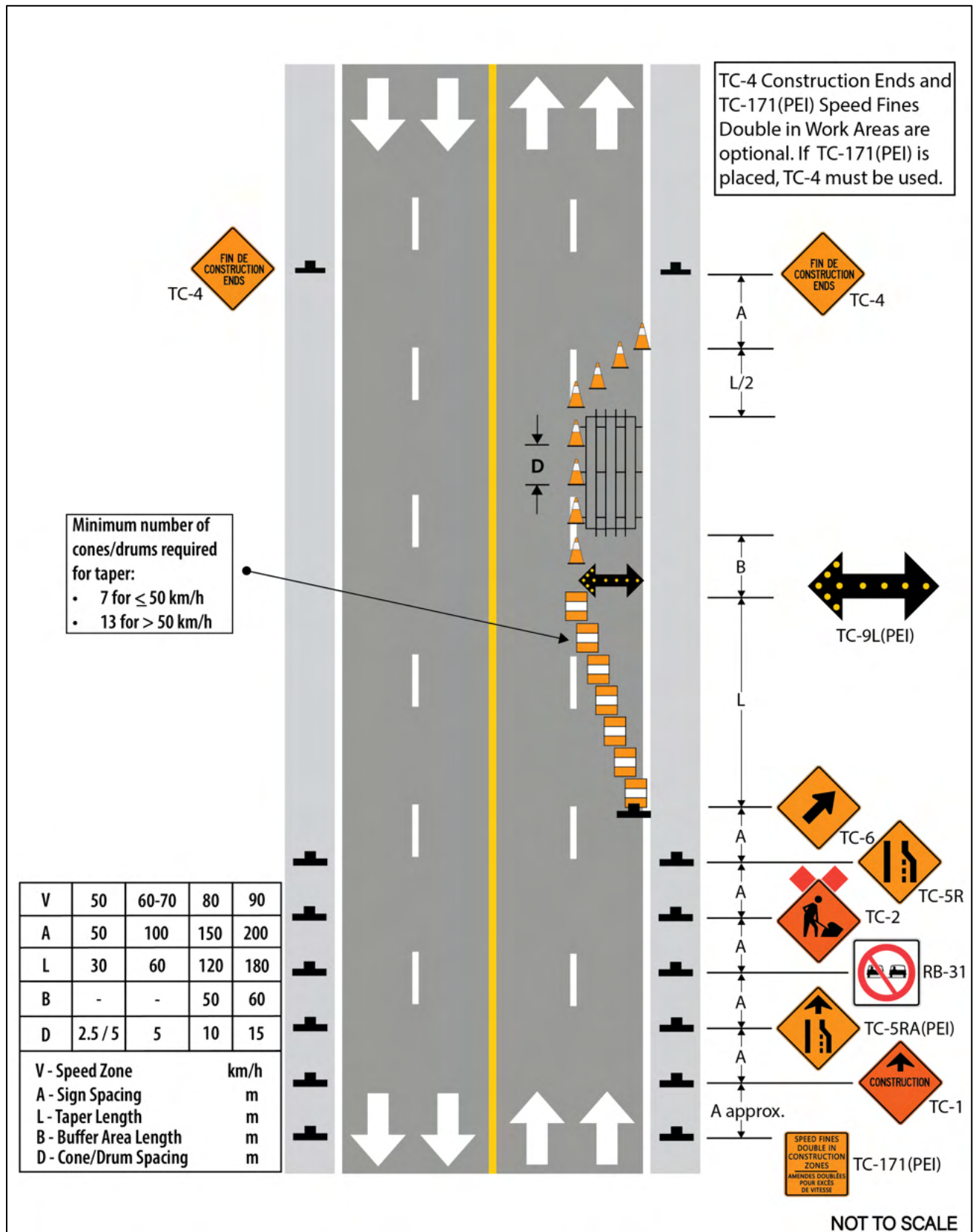
Lane Closed: Short Duration, Multi-Lane

Guide A 63L



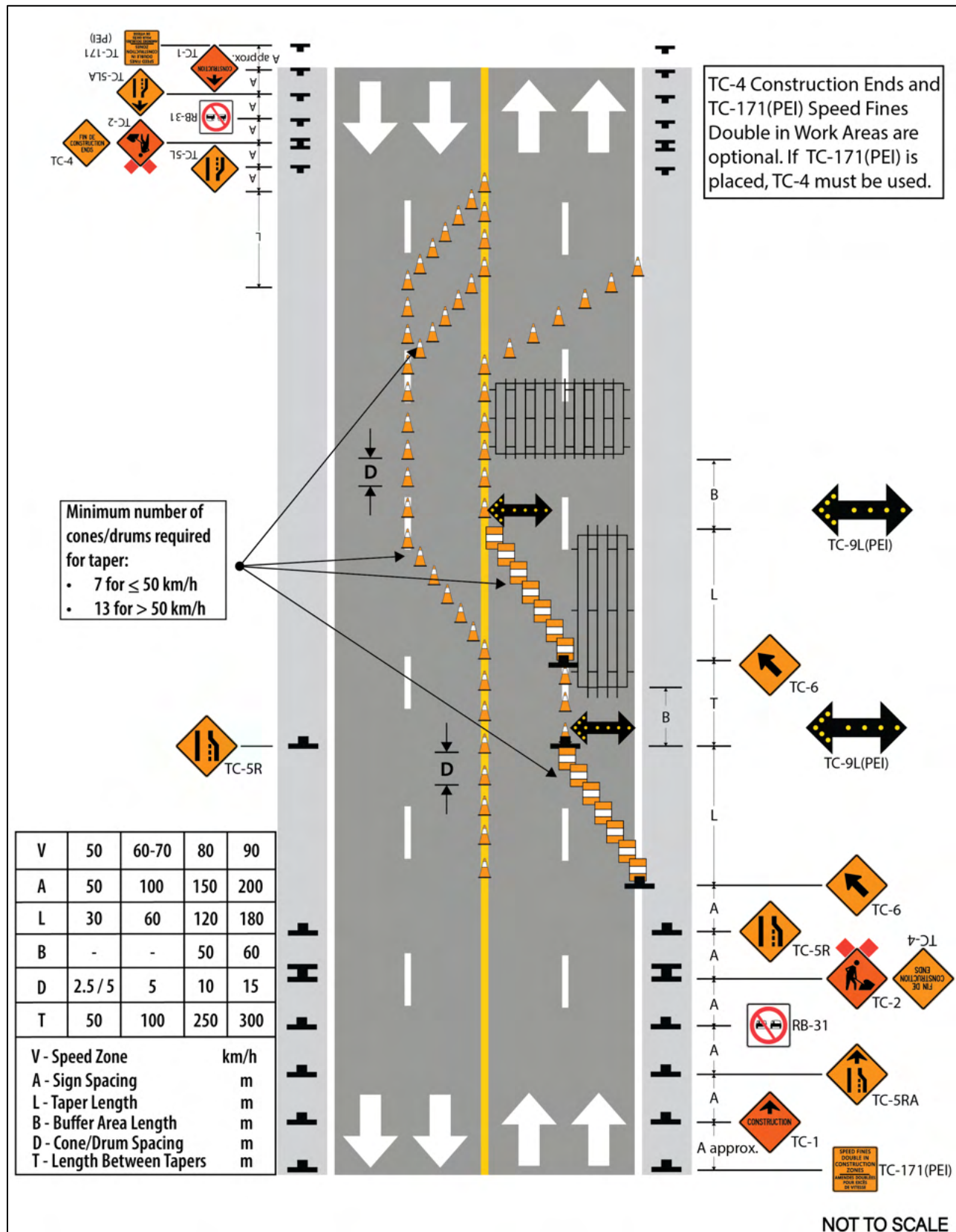
Lane Closed: Short Duration, Multi-Lane

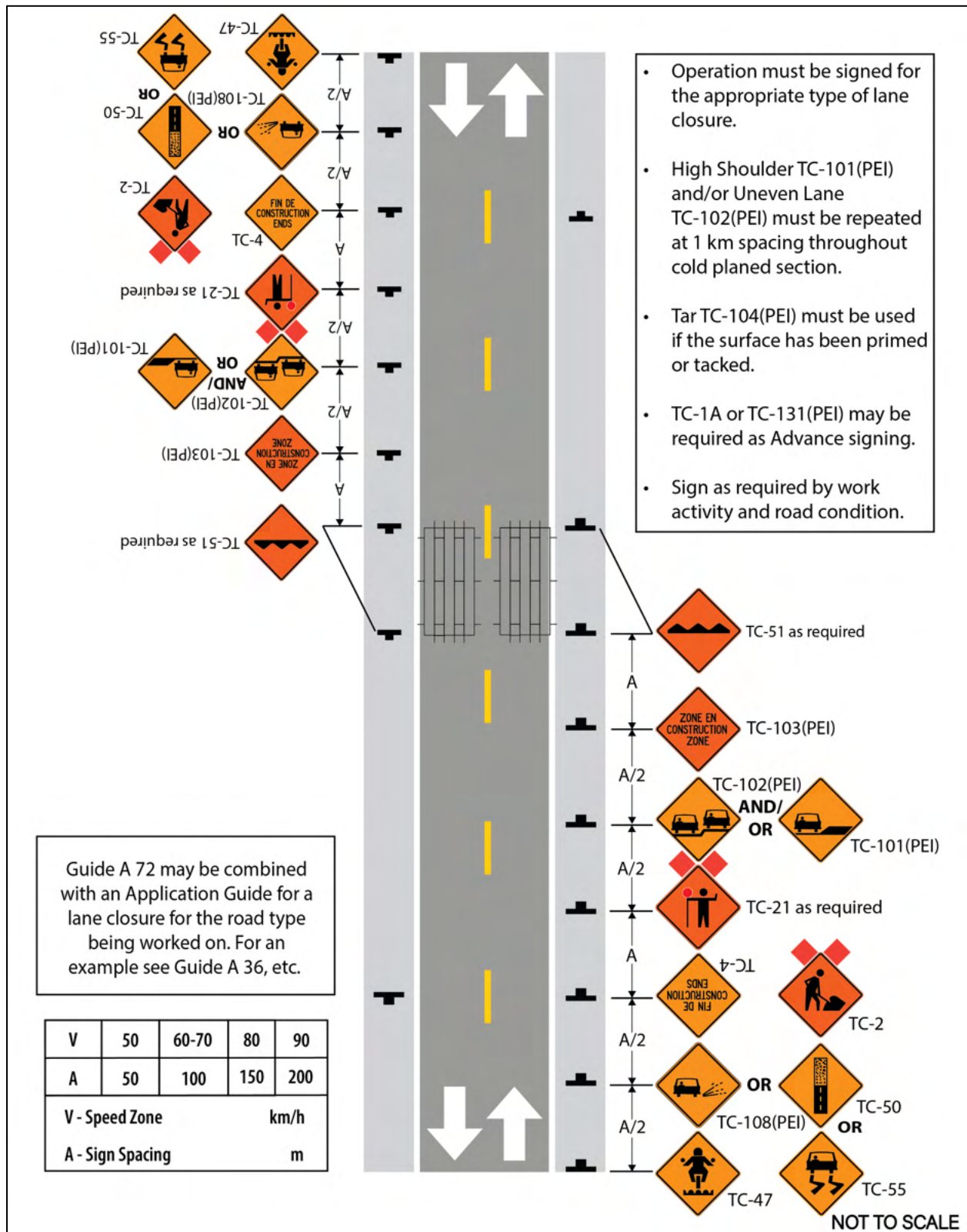
Guide A 63R



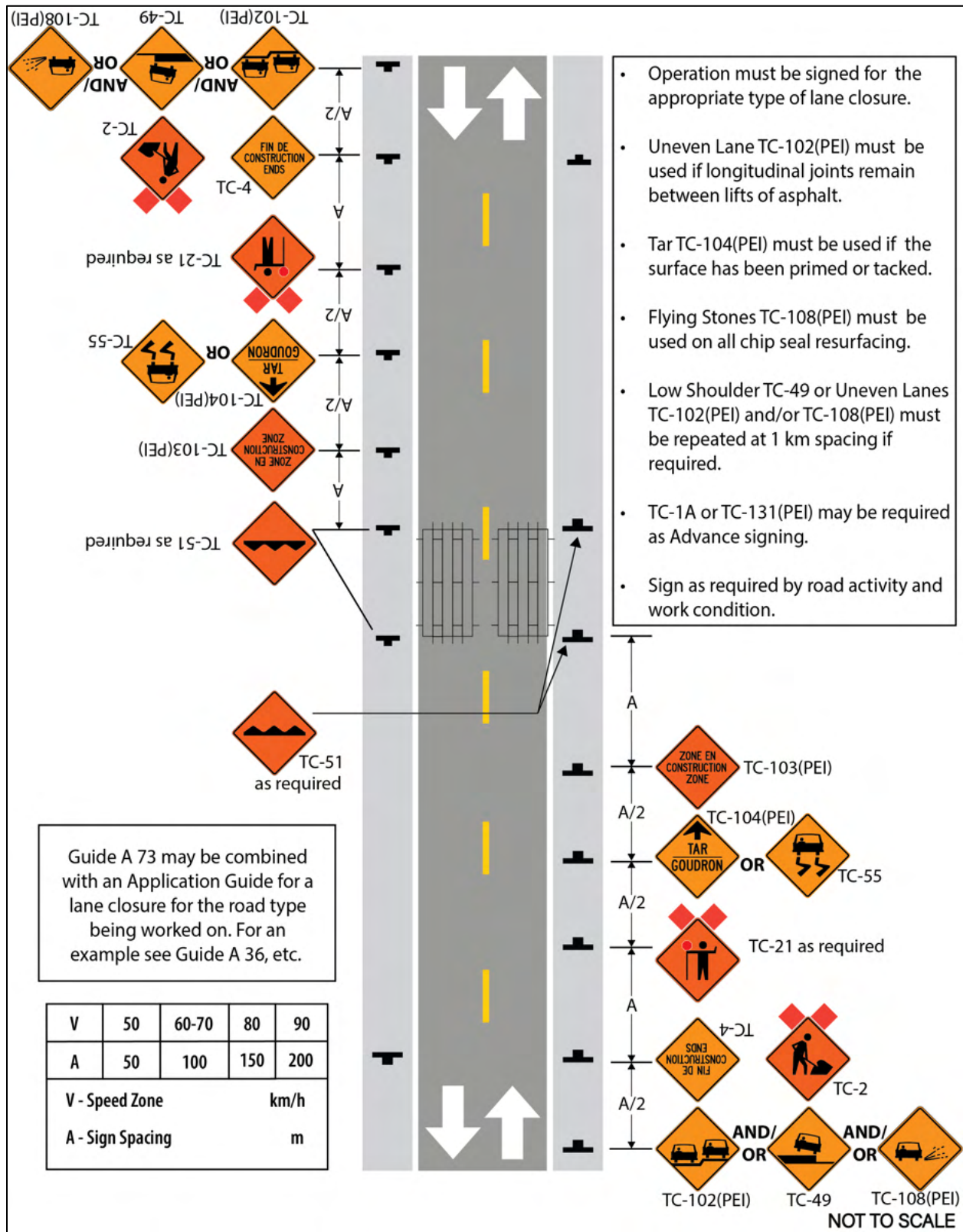
Two Lanes Closed: Short Duration, Multi-Lane

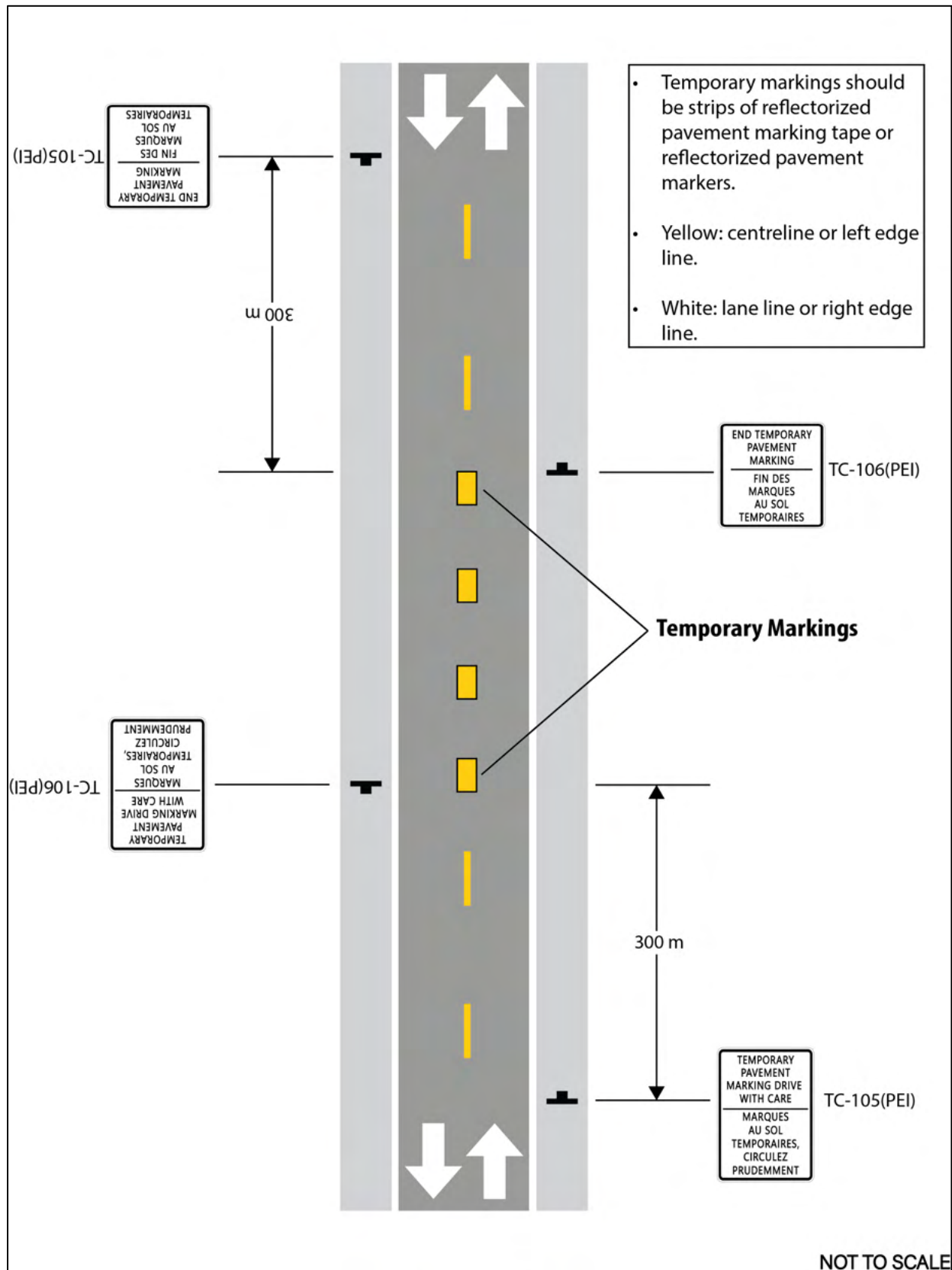
Guide A 68

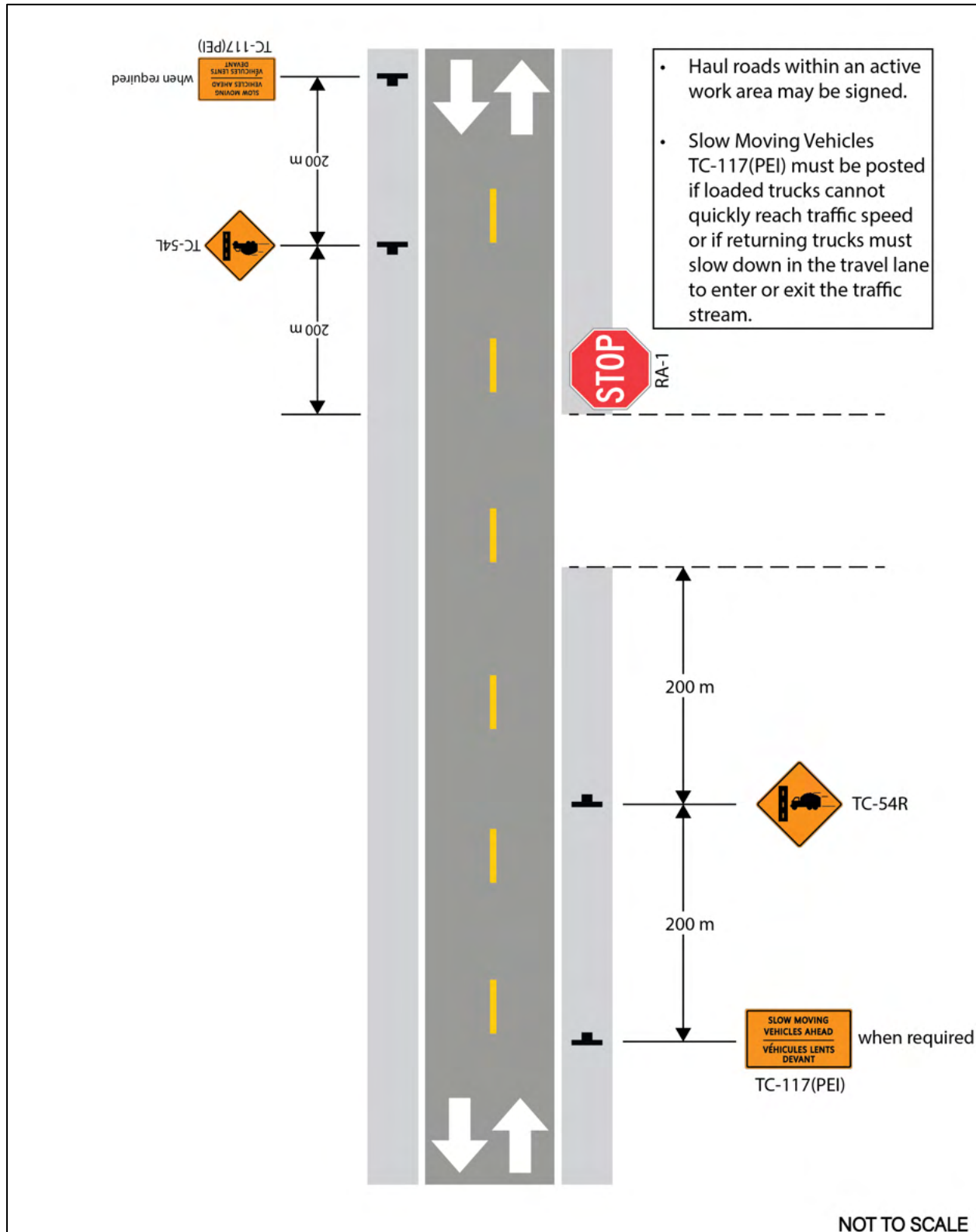


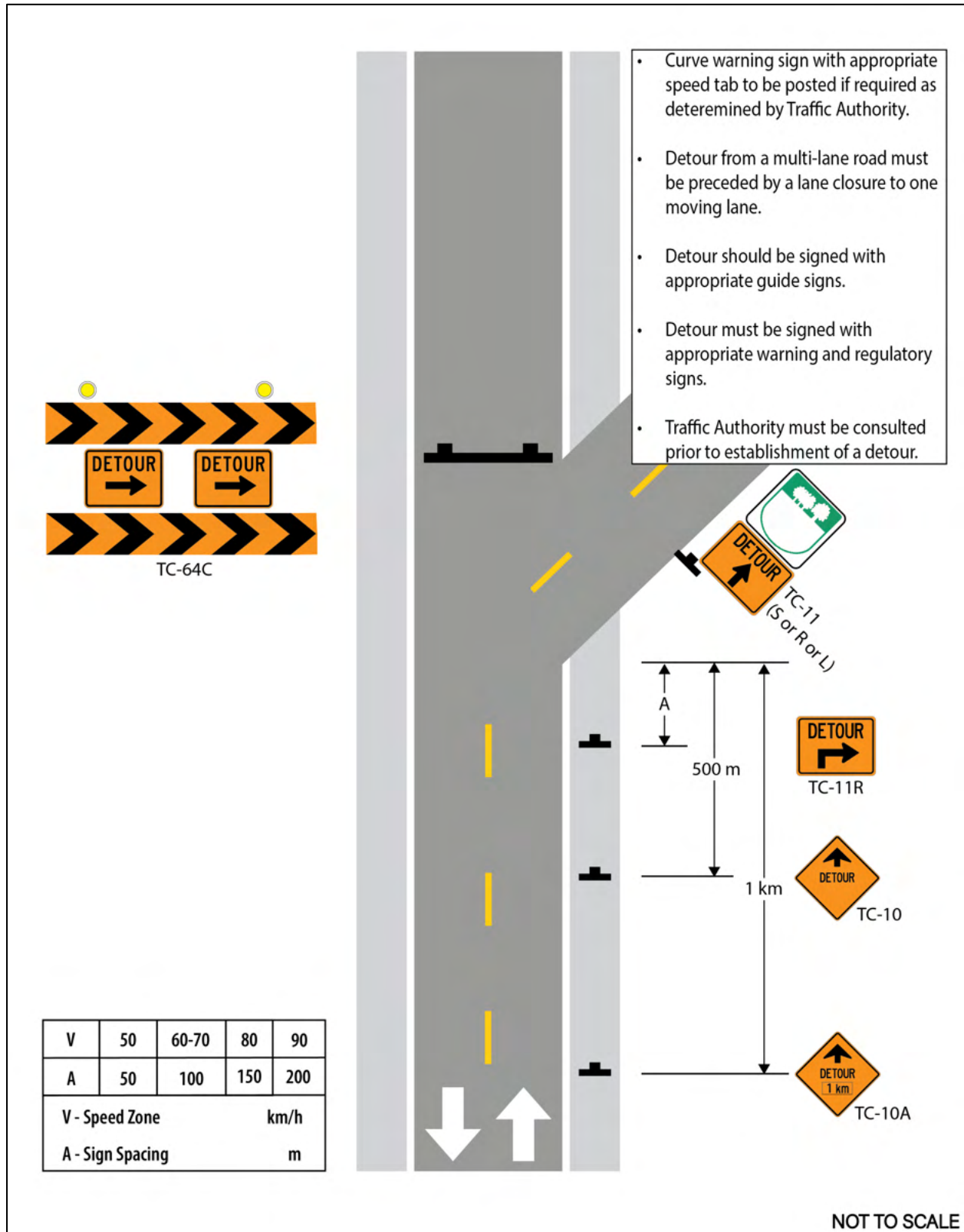


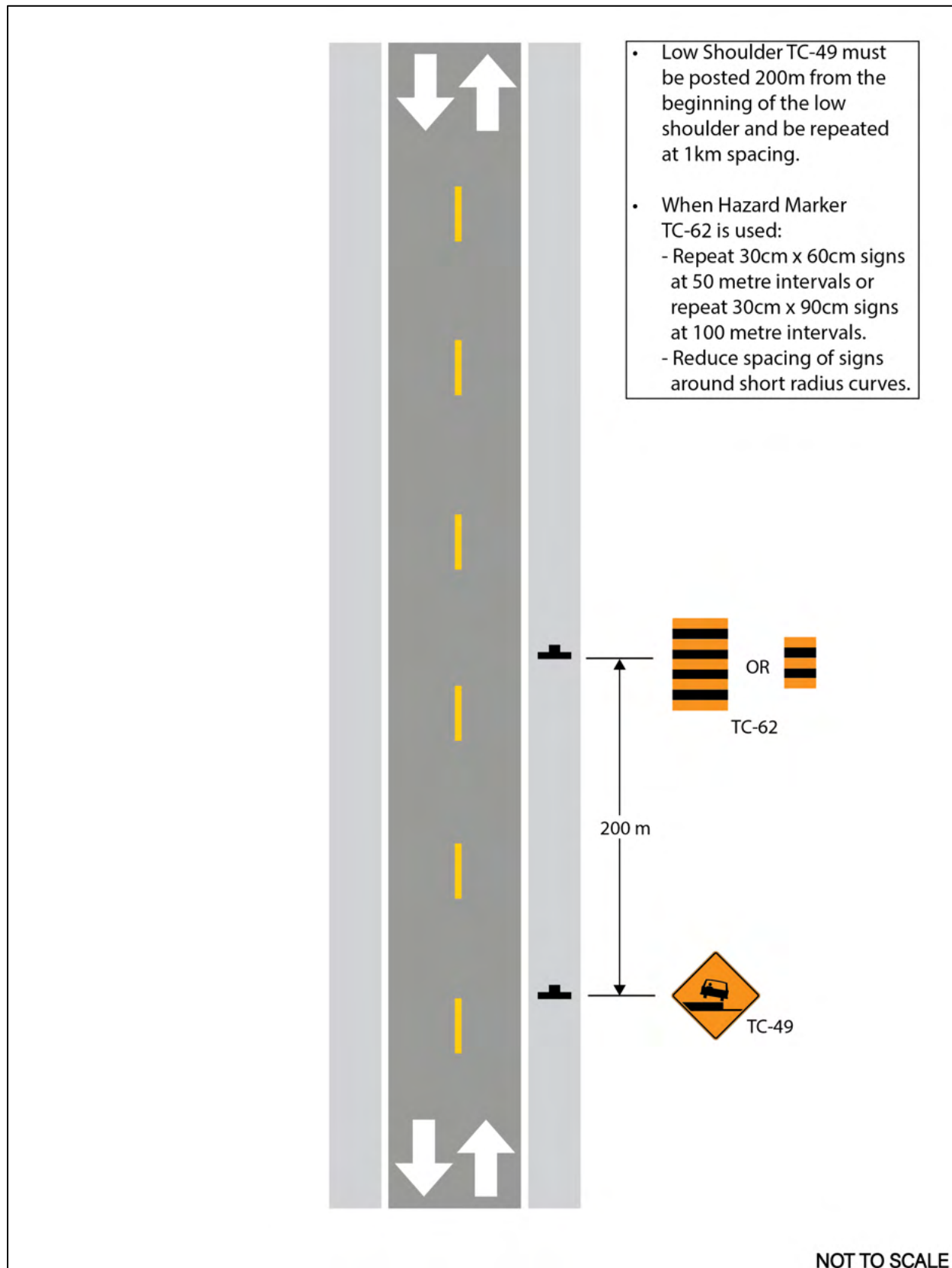
Construction and Long Patch: Long Duration, Two-Way or Multi-Lane Guide A 73

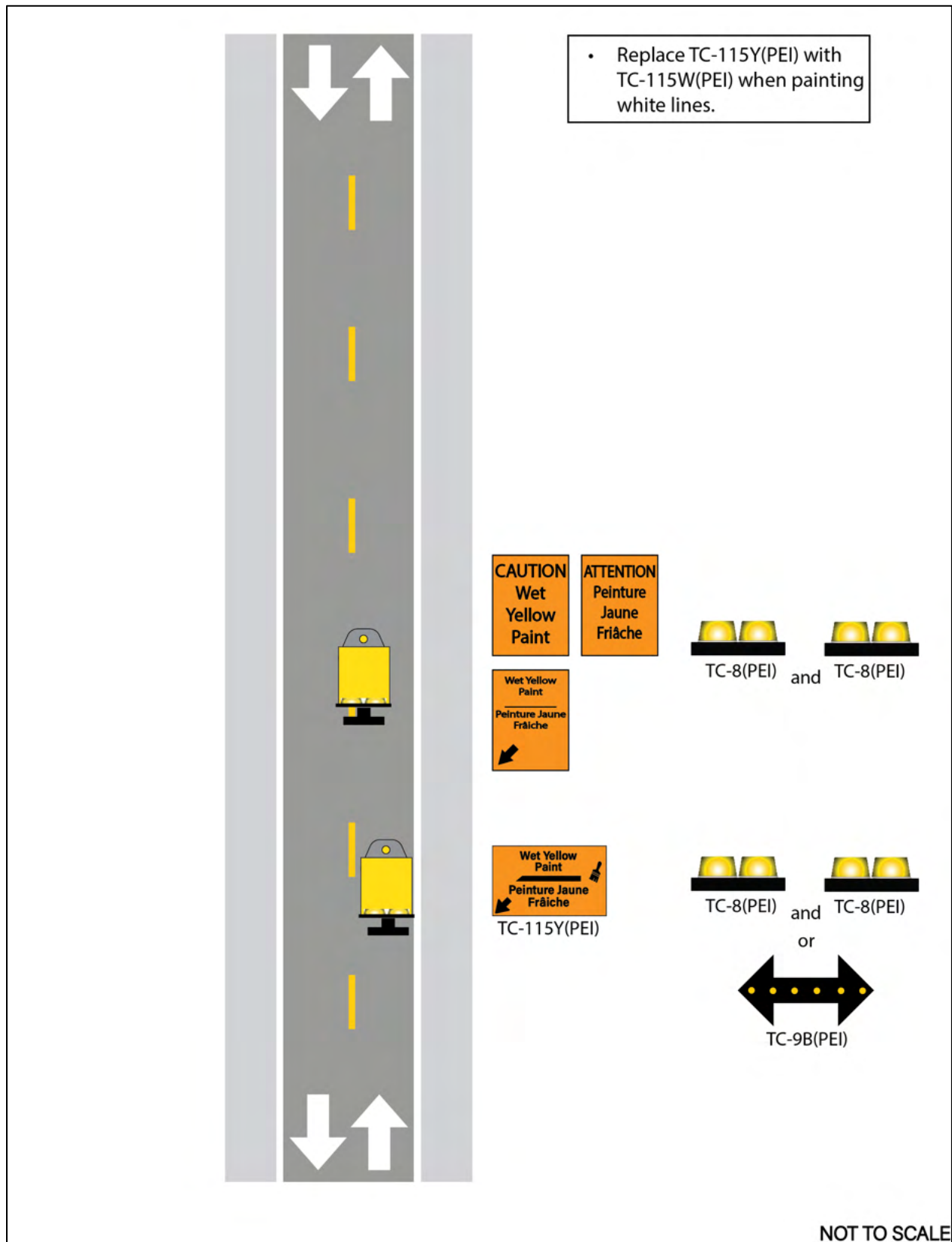


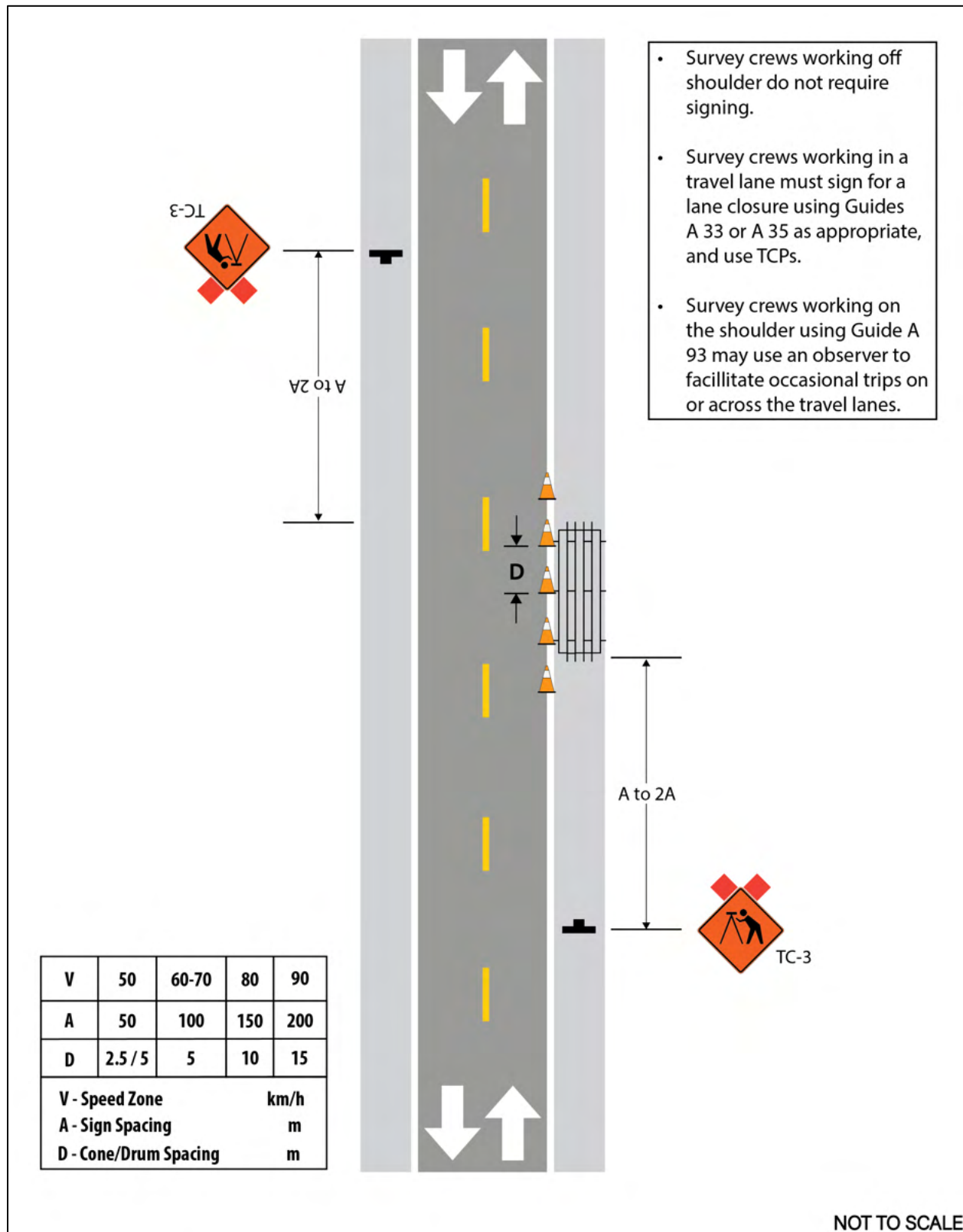




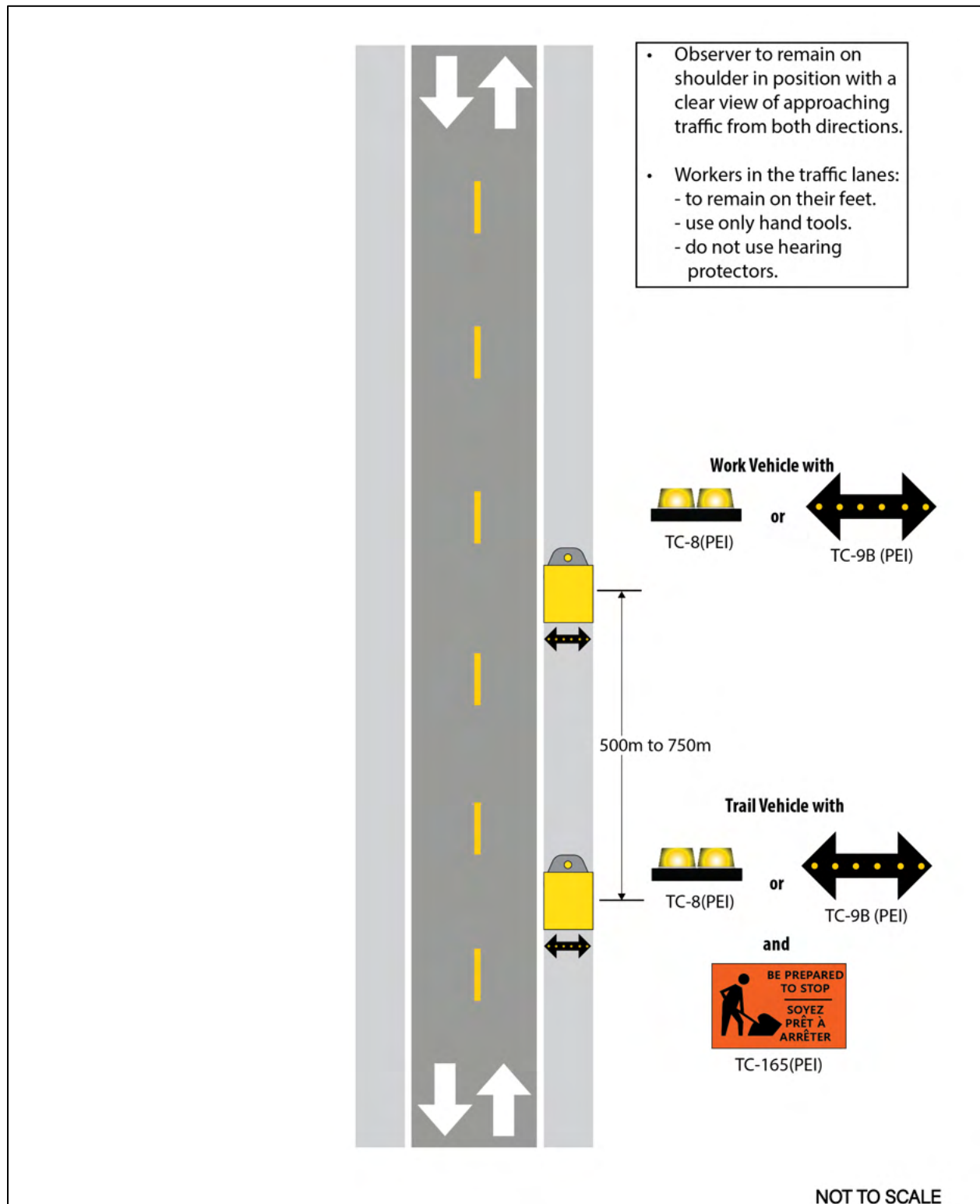


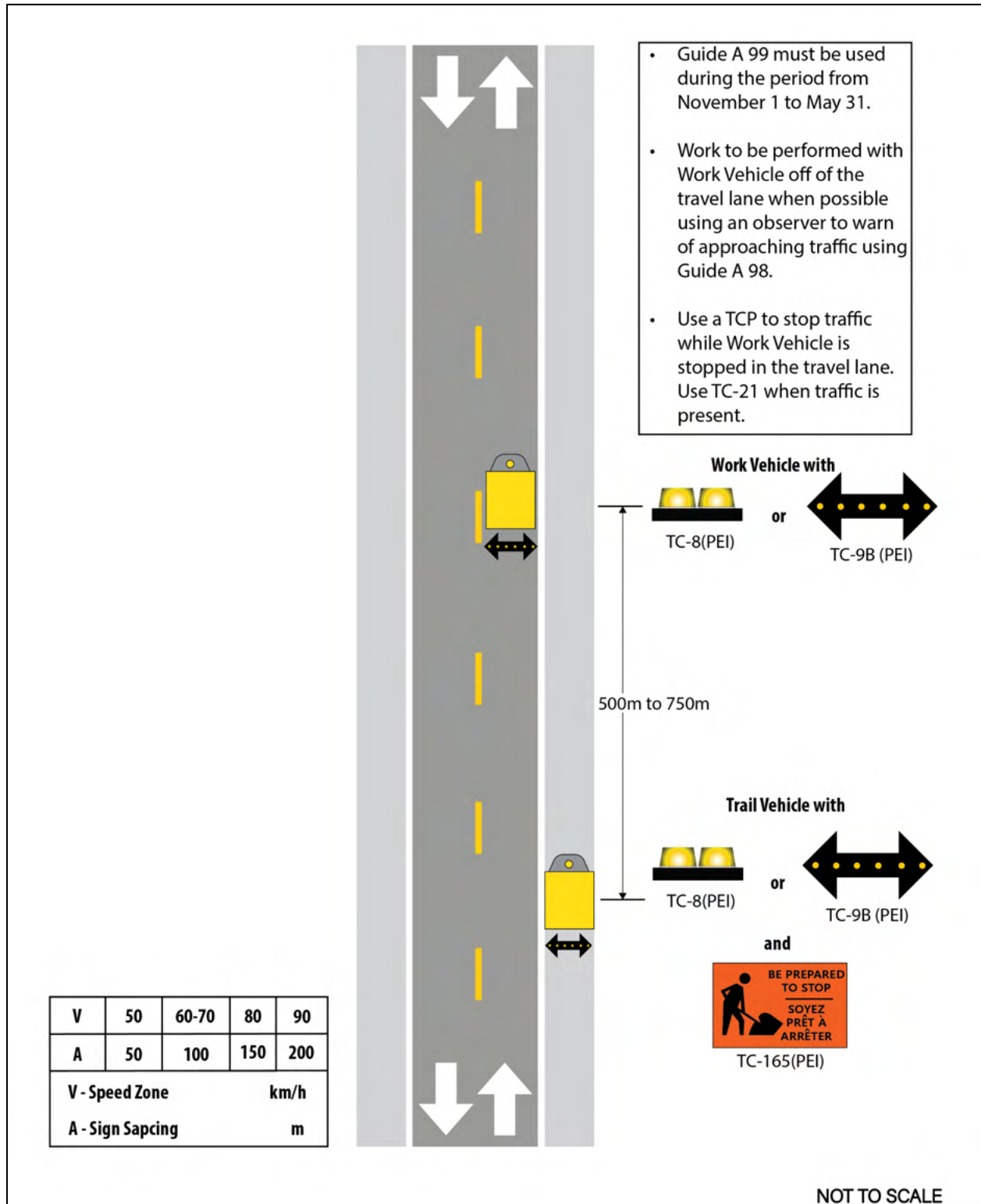






- Survey crews working off shoulder do not require signing.
- Survey crews working in a travel lane must sign for a lane closure using Guides A 33 or A 35 as appropriate, and use TCPs.
- Survey crews working on the shoulder using Guide A 93 may use an observer to facilitate occasional trips on or across the travel lanes.





Application Guides 'B'

Collector and Local Highways

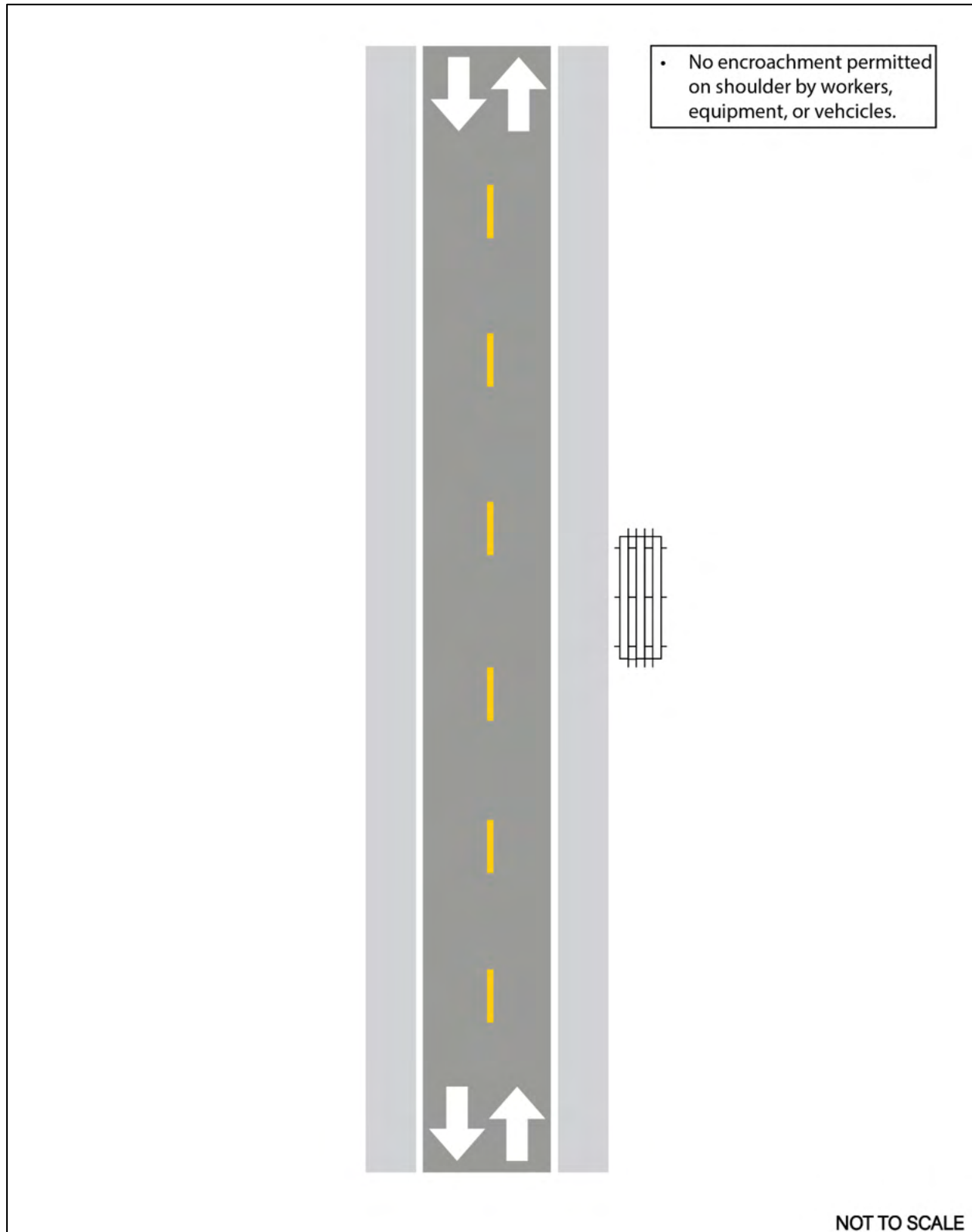
<u>Work Location</u>	<u>Work Duration</u>	<u>Highway Type (Special Condition)</u>	<u>Guide</u>
Off Shoulder Work	All Durations	Two-Way Two-Lane	B 1
Shoulder Work	Very Short Duration	Two-Way Two-Lane	B 12
Shoulder Work	Short Duration	Two-Way Two-Lane	B 13
Partial Lane Closed	Short Duration	Two-Way Two-Lane	B 22
Partial Lane Closed	Short Duration	Two-Way Two-Lane (Altered Centreline)	B 23
Lane Closed	Very Short Duration	Two-Way Two-Lane	B 33
Lane Closed	Short Duration	Two-Way Two-Lane (Day Work)	B 35
Lane Closed	Short Duration	Two-Way Two-Lane (Day Work)	B 35A
Lane Closed	Short Duration	Two-Way Two-Lane (Night Work)	B 36
Lane Closed	Short Duration	Two-Way Two-Lane (Bridge Work)	B 38
Lane Closed	Long Duration	Two Way (Traffic Control Signals)	B 51

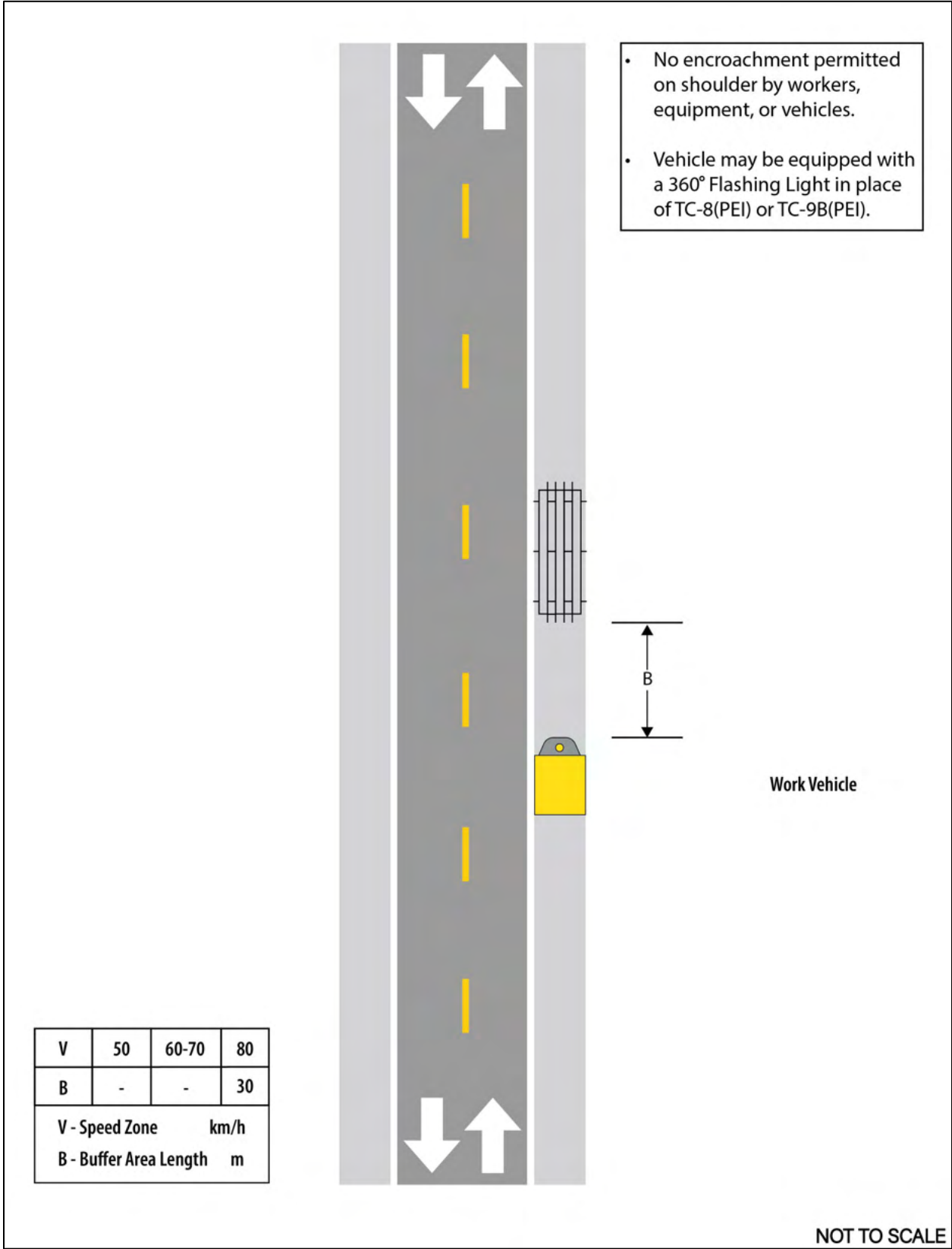
<u>Signing Illustration</u>	<u>Work Duration</u>	<u>Highway Type</u>	<u>Guide</u>
Construction Zone	Long Duration	Two-Way Two-Lane	B 72
Construction and Long Patch	Long Duration	Two-Way Two-Lane	B 73
Temporary Haul Road	All Durations	Two-Way Two-Lane	B 76
Detour	All Durations	Two-Way Two-Lane	B 77
Low Shoulder	Short or Long Durations	Two-Way Two-Lane	B 79

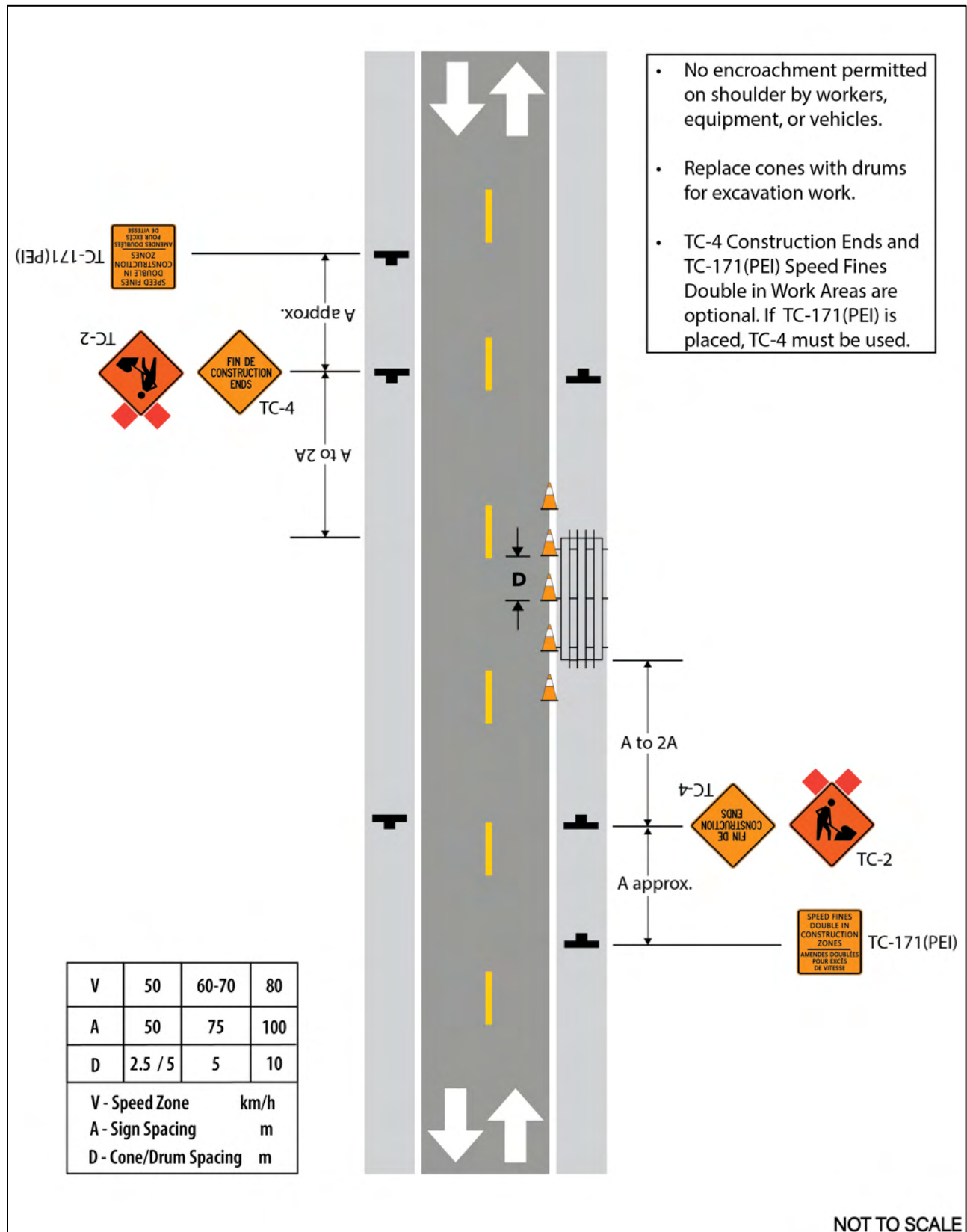
Special Operations

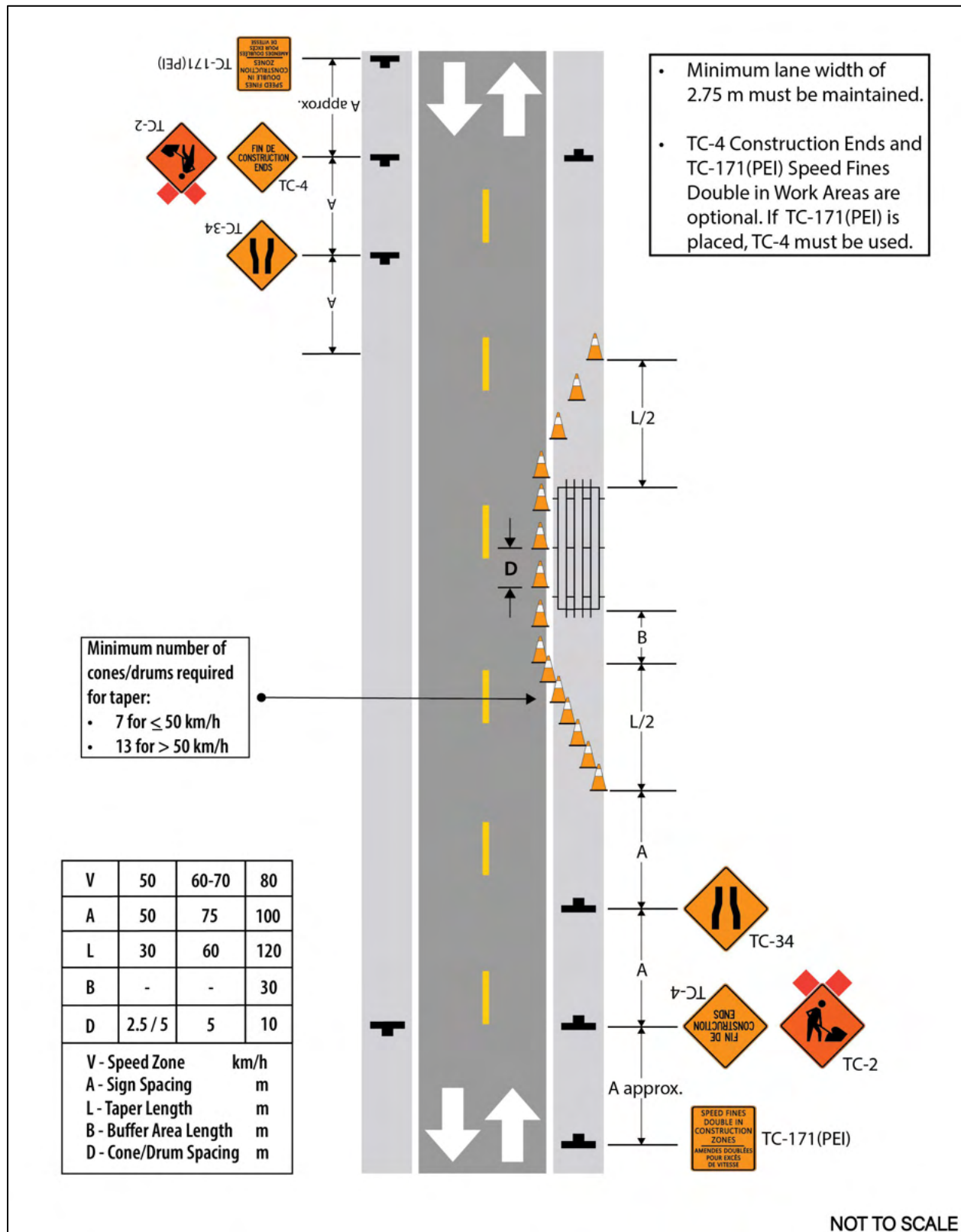
<u>Work Type</u>	<u>Work Duration</u>	<u>Highway Type (Special Condition)</u>	<u>Guide</u>
Line Patching	Mobile Continuous	Two-Way Two-Lane	B 91
Maintenance Grading	Mobile Continuous	Gravel Roads (Low Volume)	B 92
Survey Crew	Short Duration	Two-Way Two Lane	B 93
Work Zone	Mobile Intermittent	Two-Way Two-Lane	B 95
Lane Closed	Mobile Continuous	Two-Way Two-Lane (Low Volume)	B 97
Observer Workers	Very Short Duration	Two-Way Two-Lane	B 98
Seasonal Machine Operation	Mobile Intermittent	Two-Way	B 99

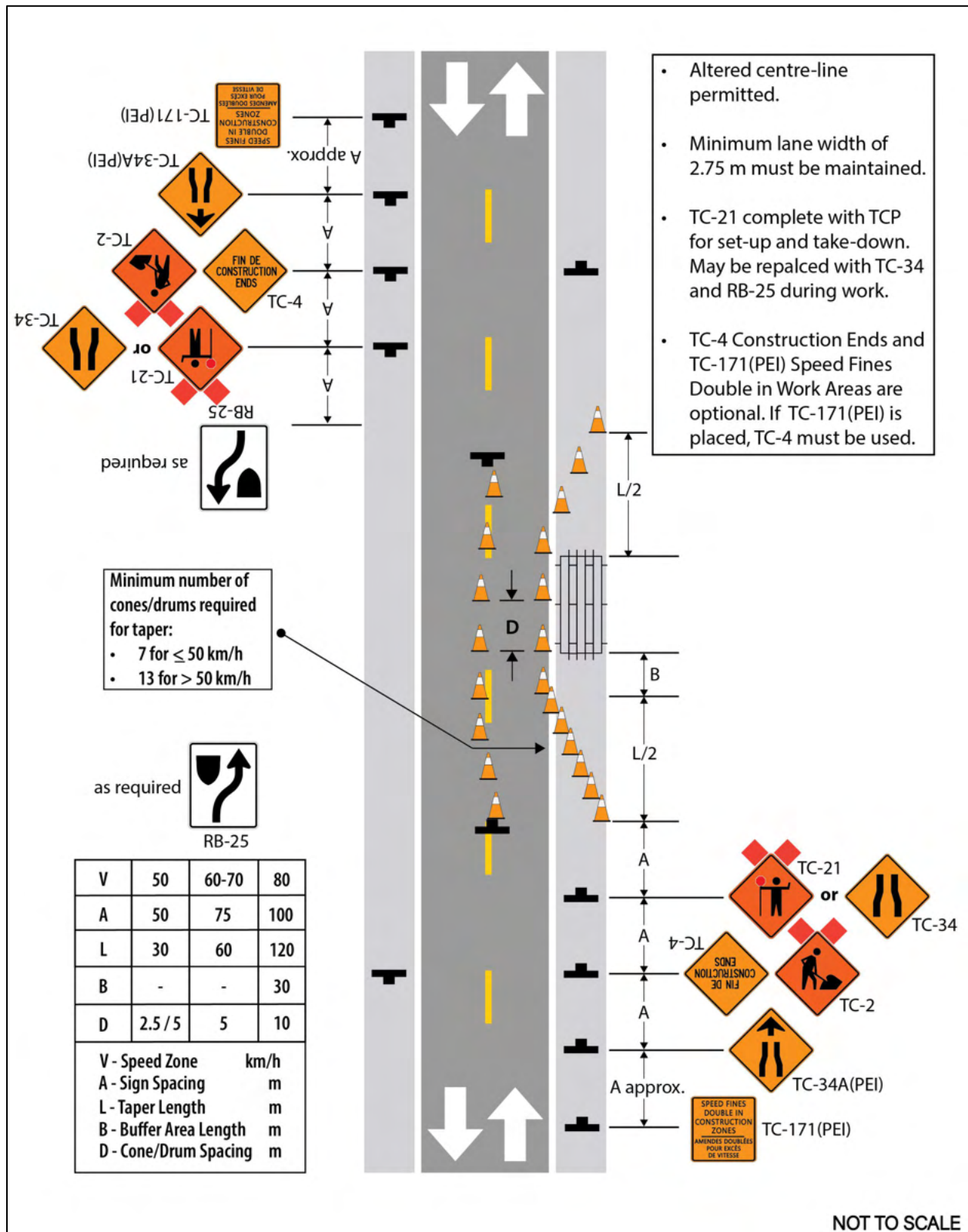


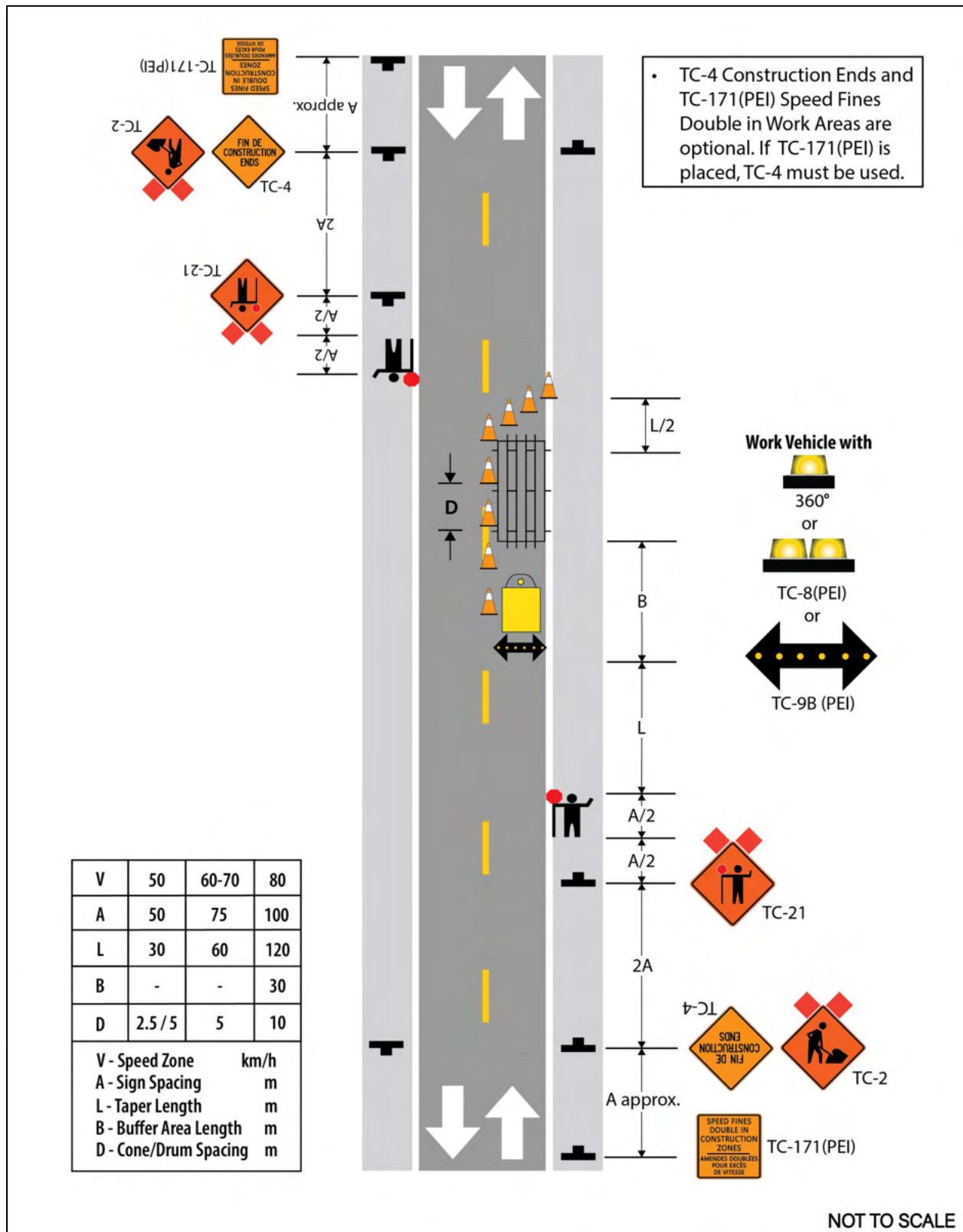


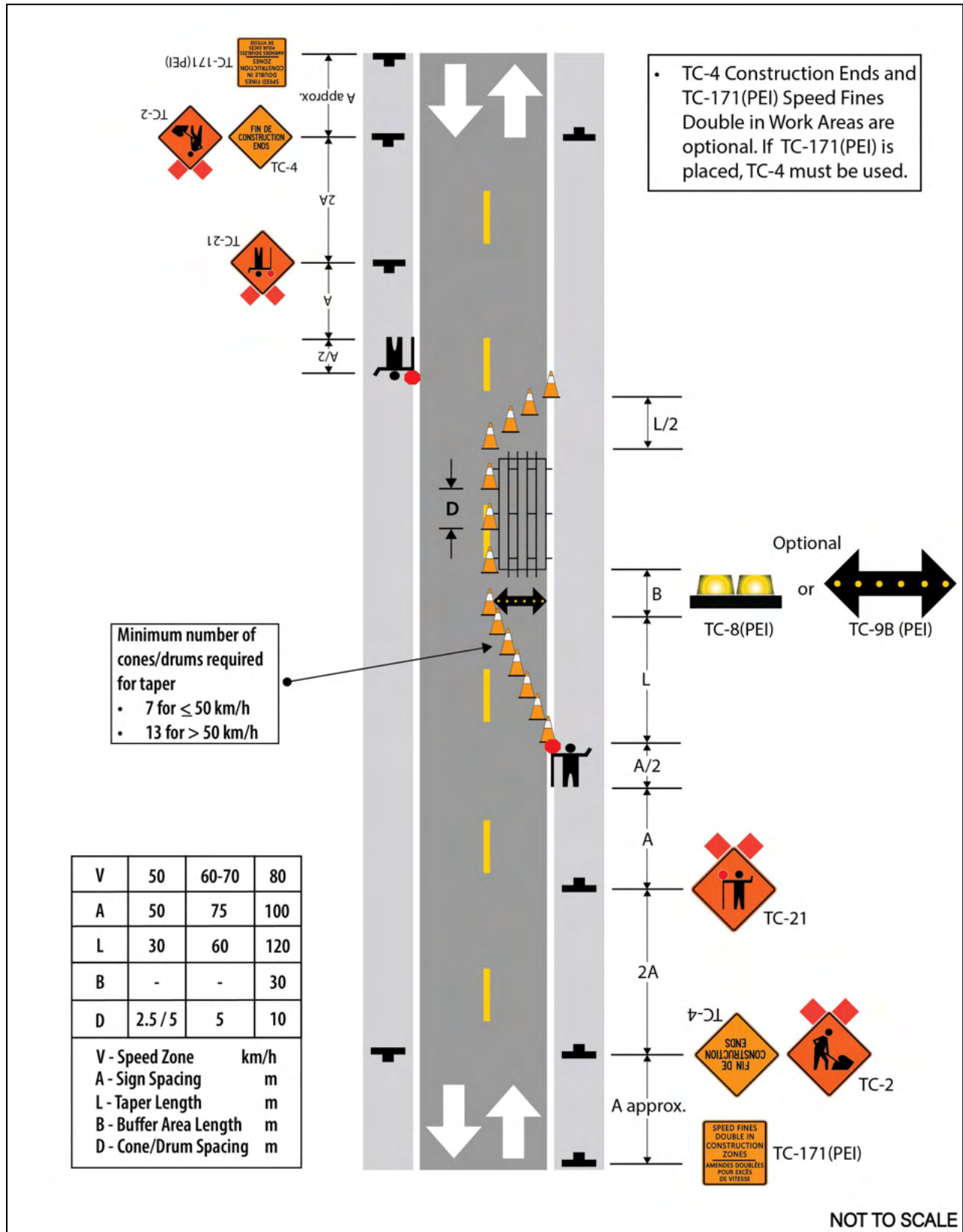






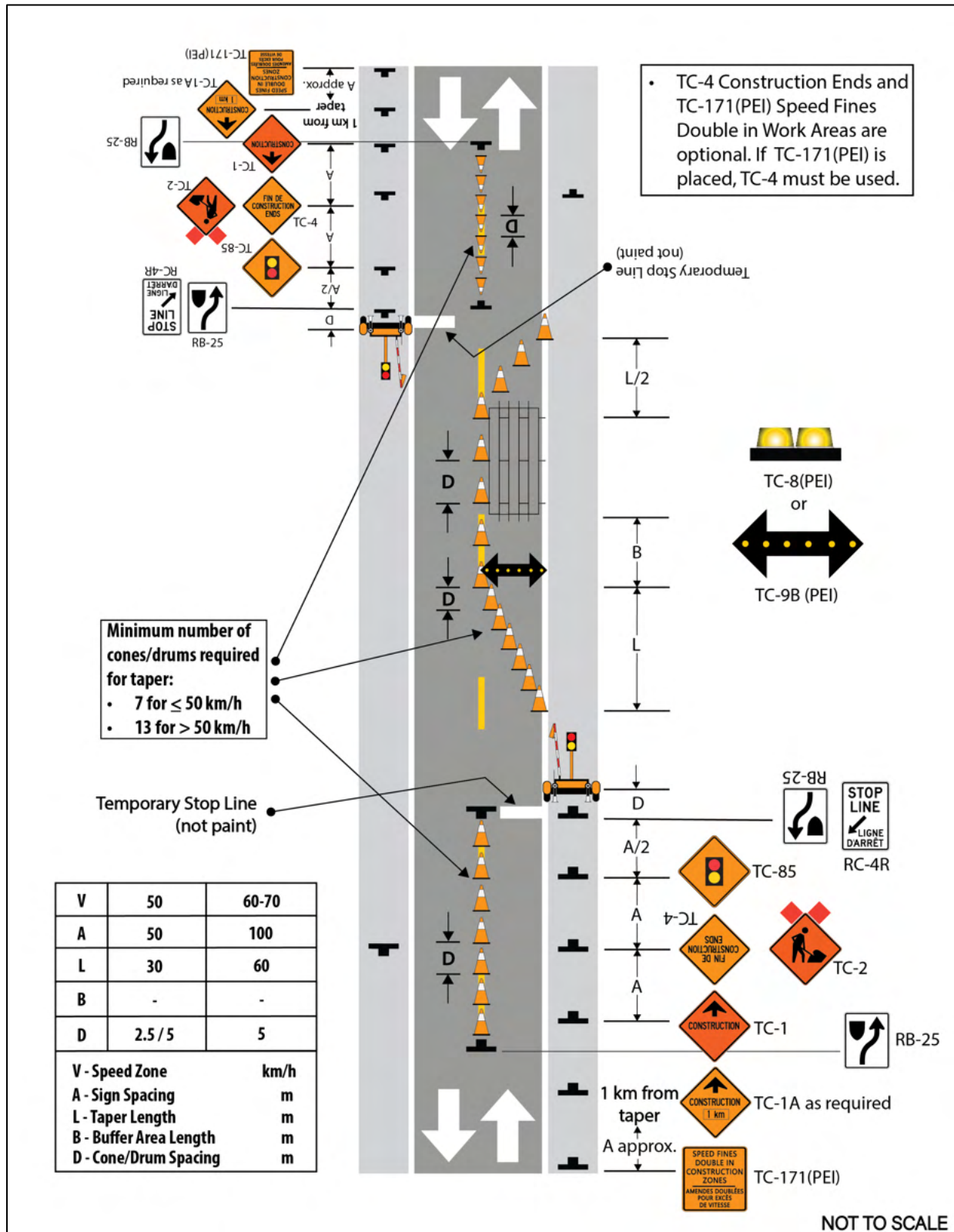


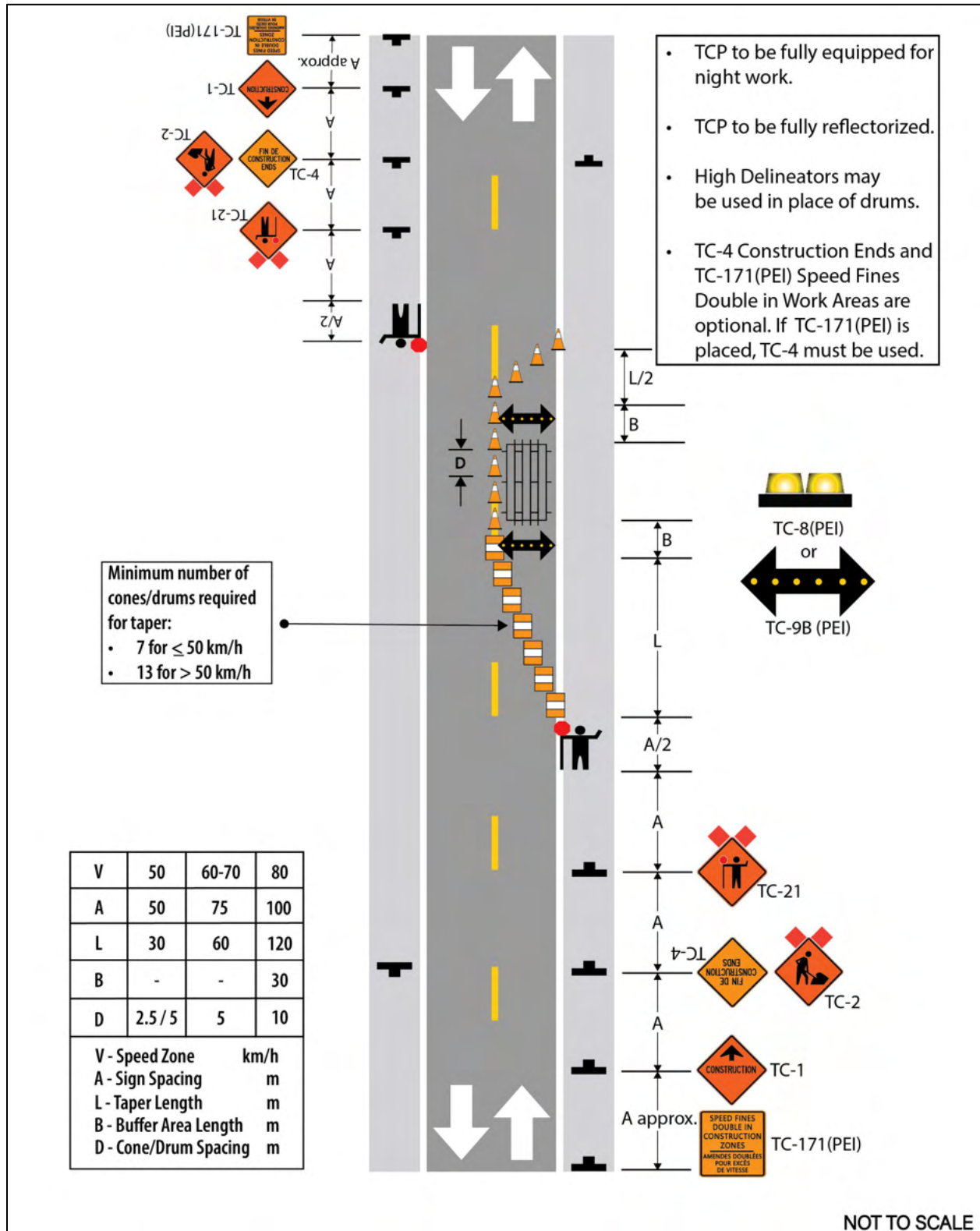


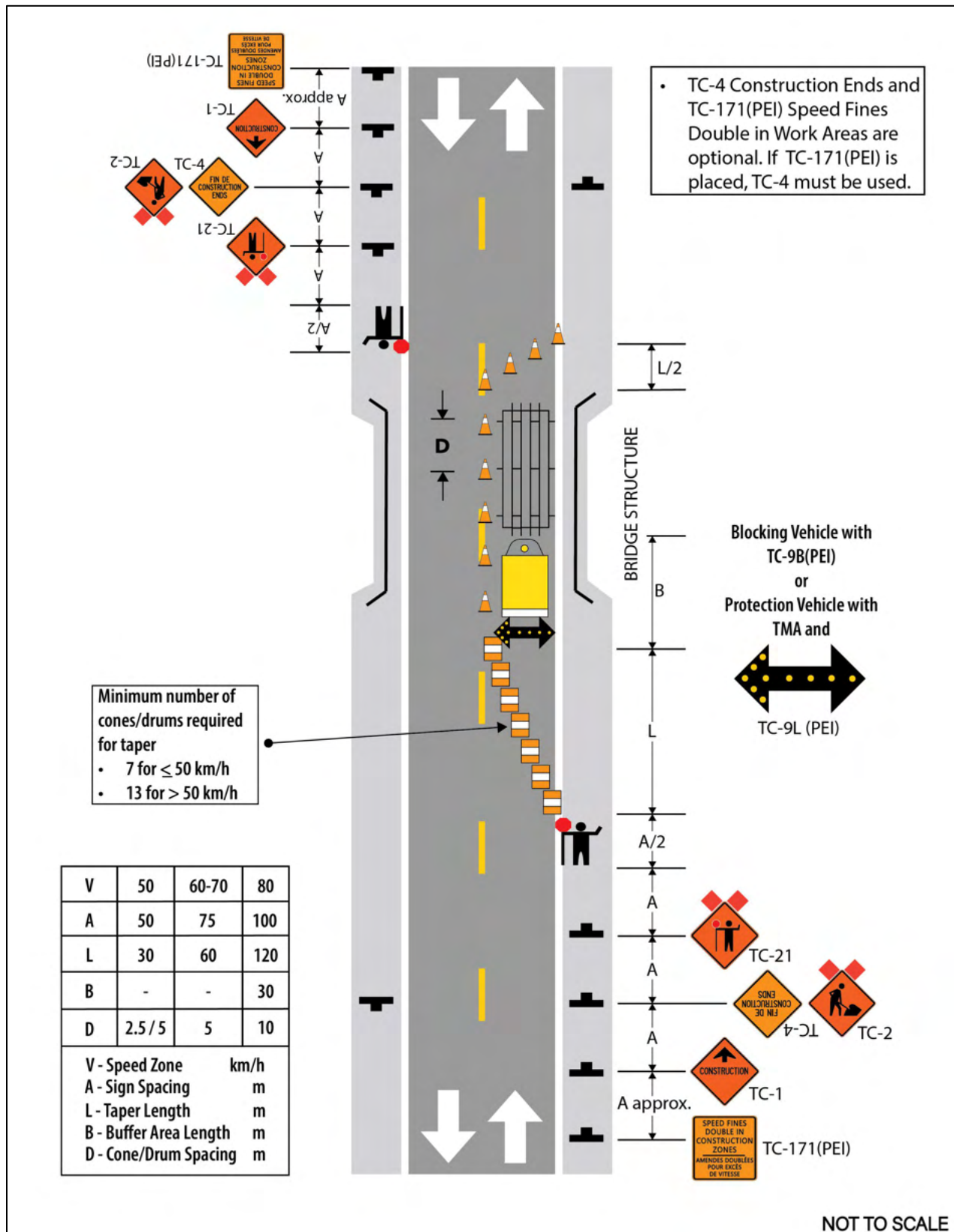


Lane Closed: Short Duration, Two-Way, Two-Lane (Day Work)

Guide B 35A

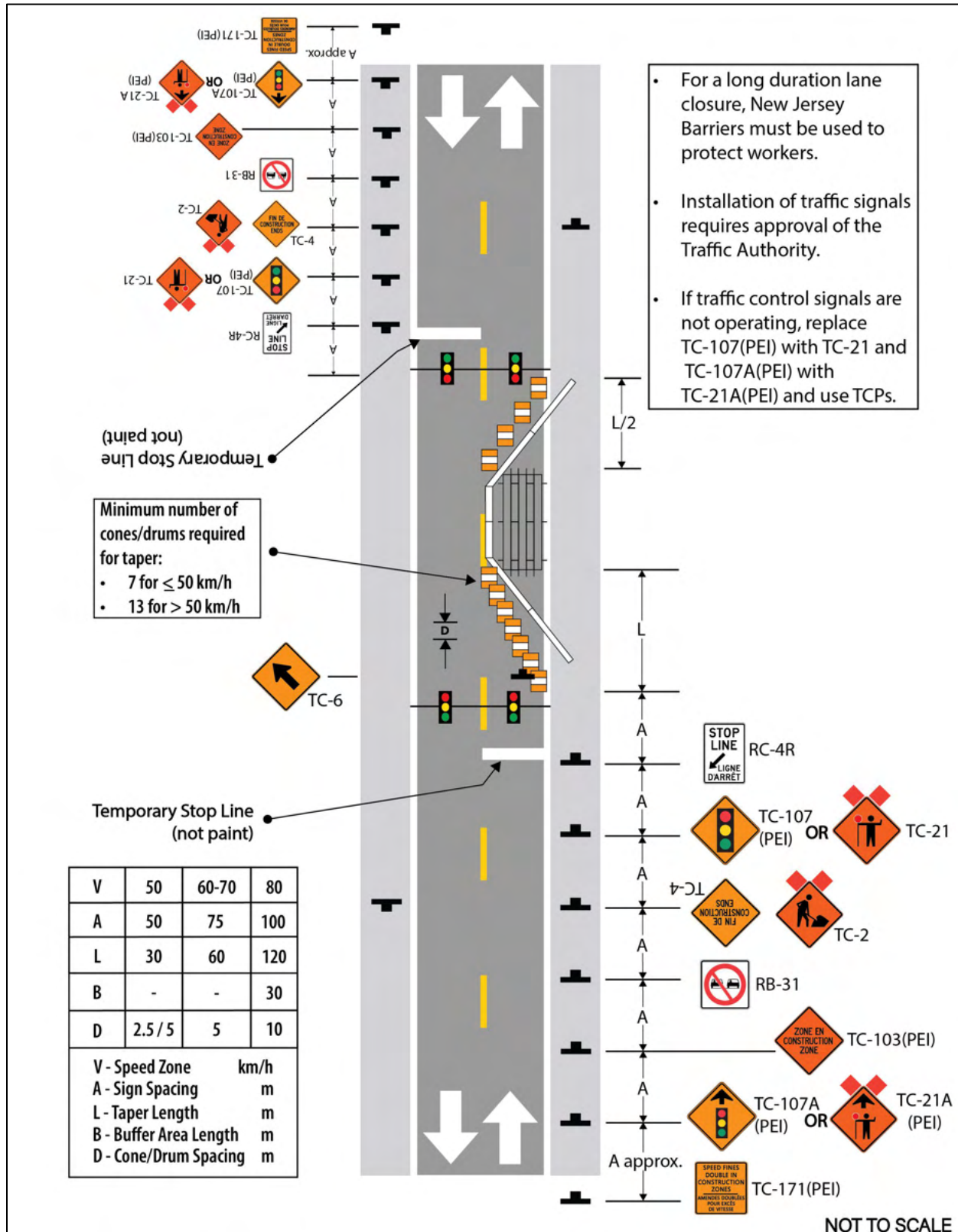






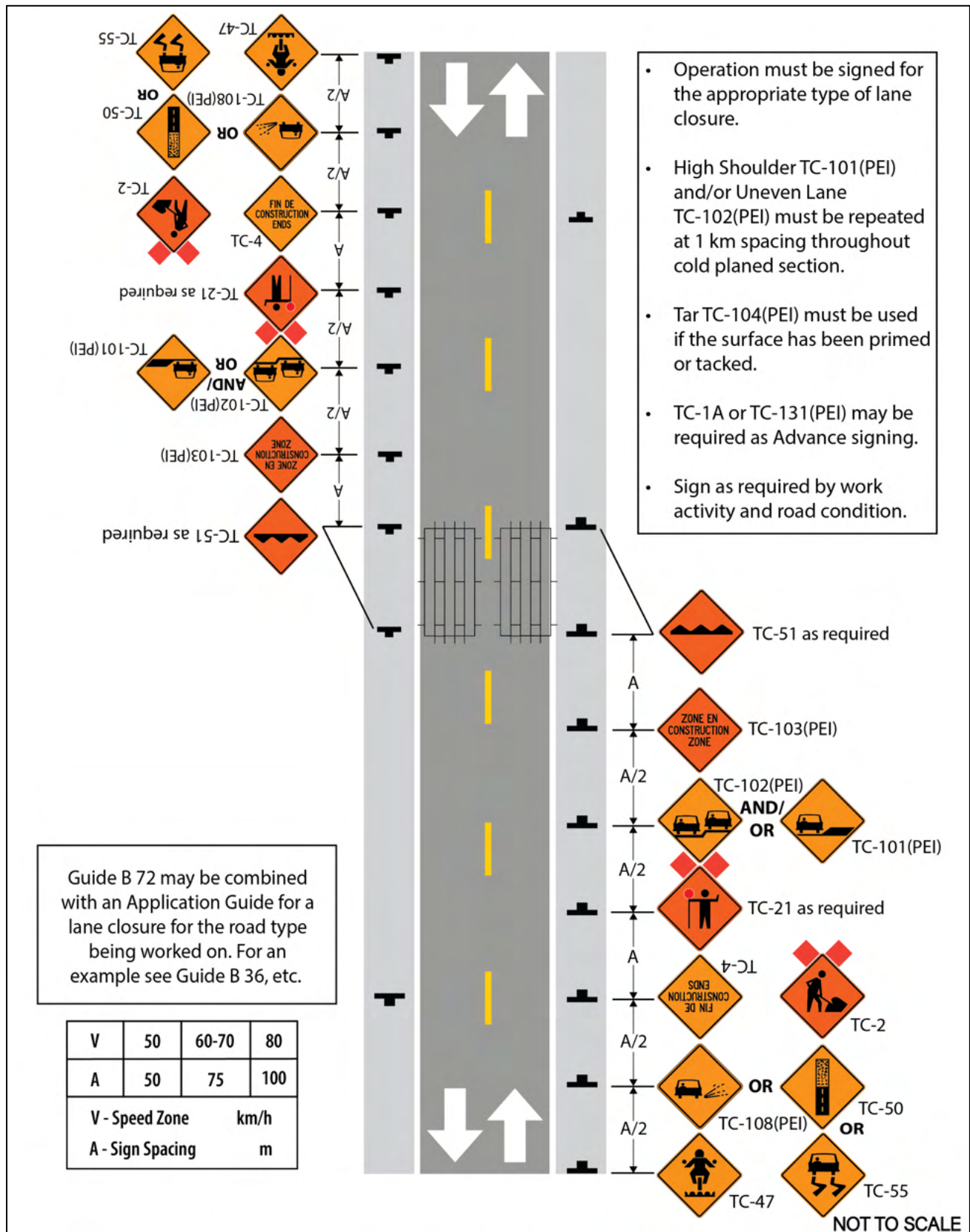
Lane Closed: Long Duration, Two-Way Two-Lane (Traffic Control Signals)

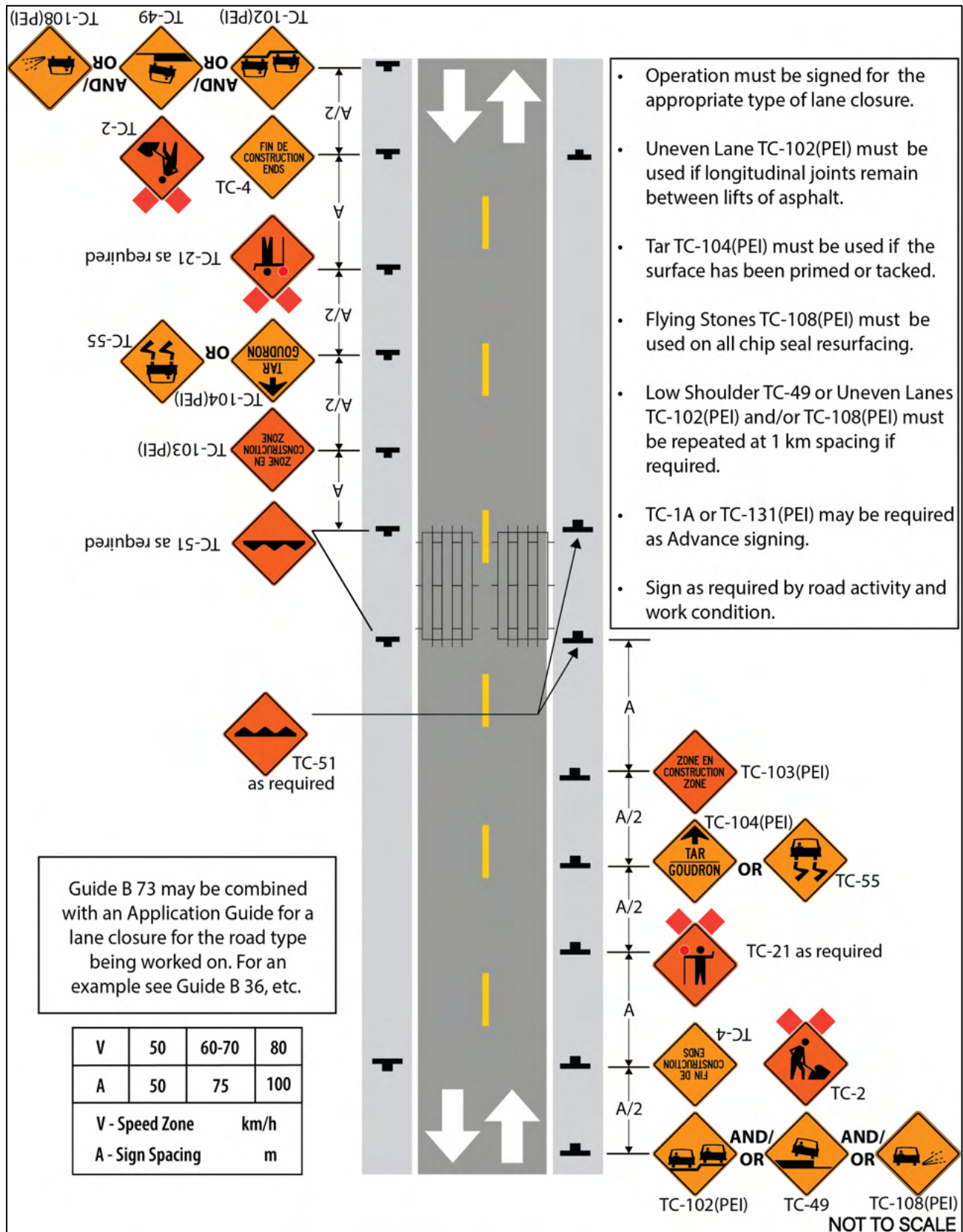
Guide B 51

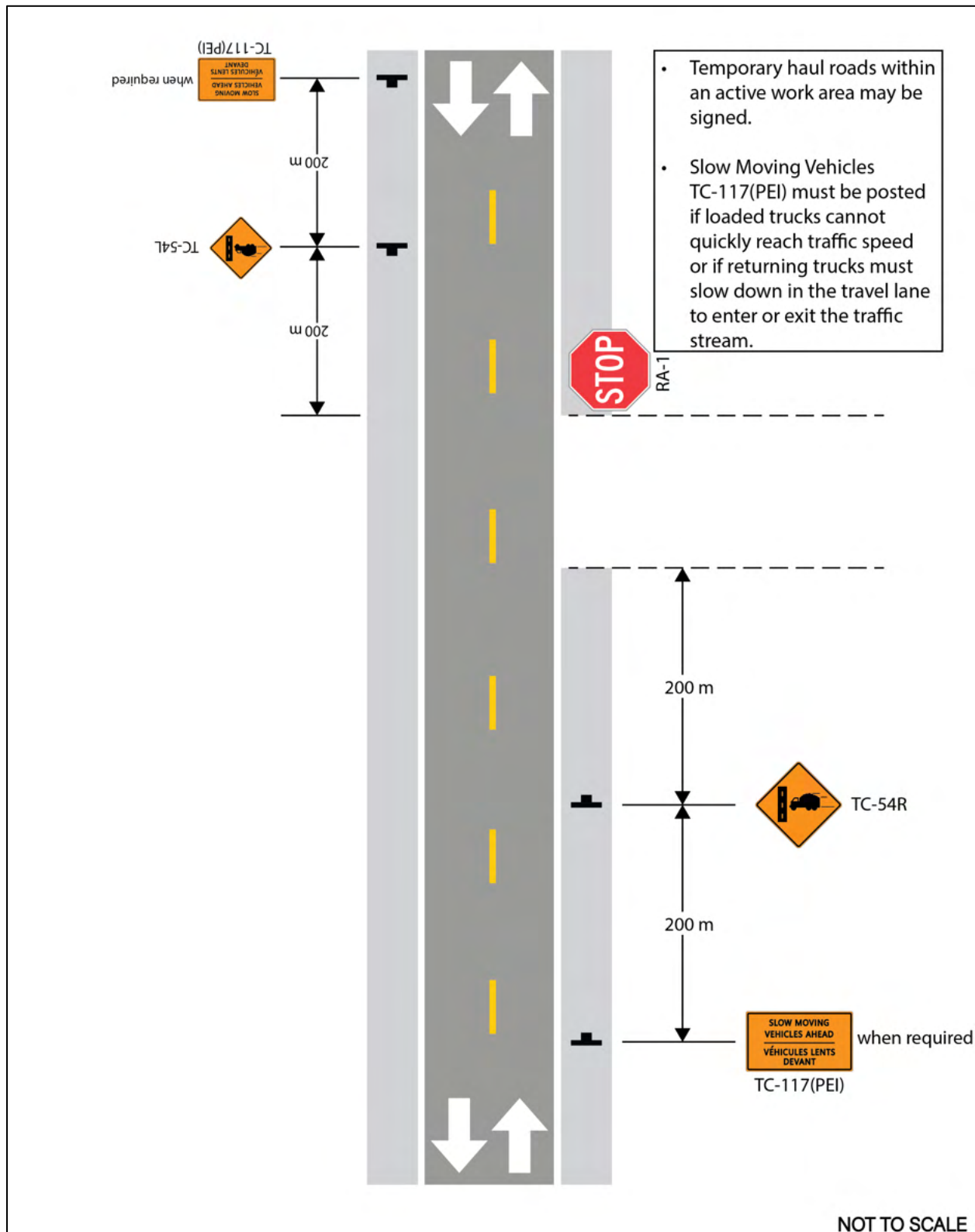


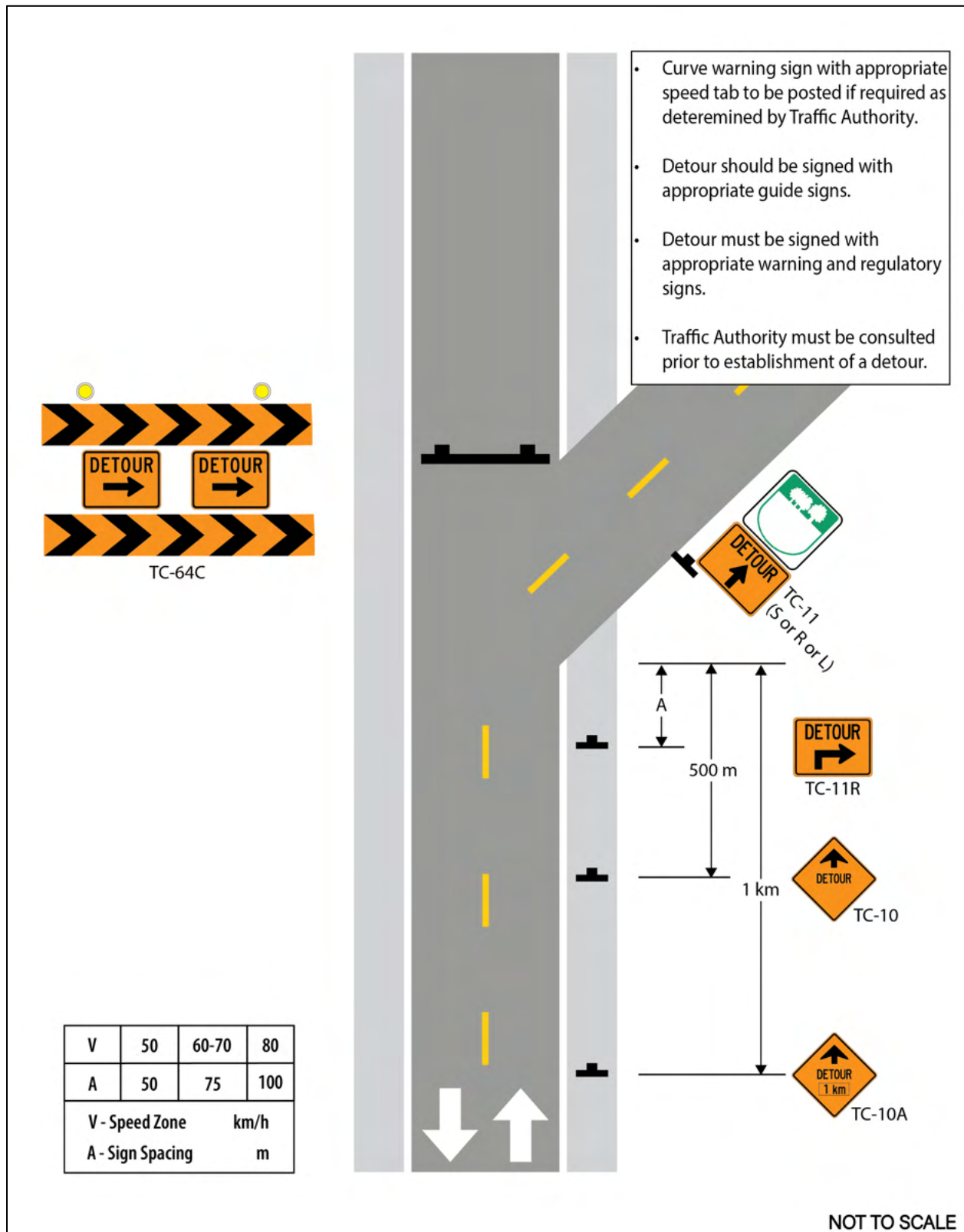
Construction Zone: Long Duration, Two-Way Two-Lane

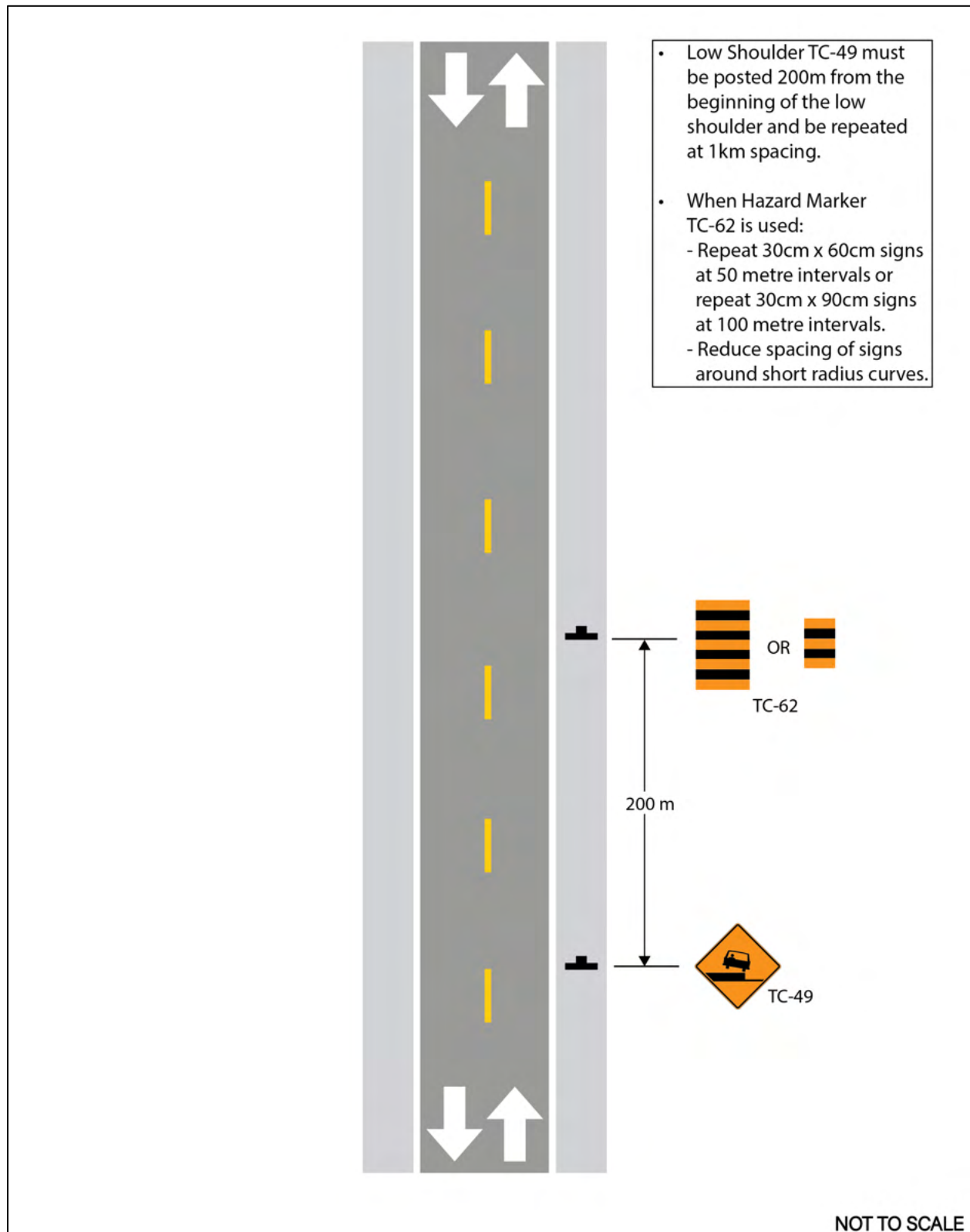
Guide B 72

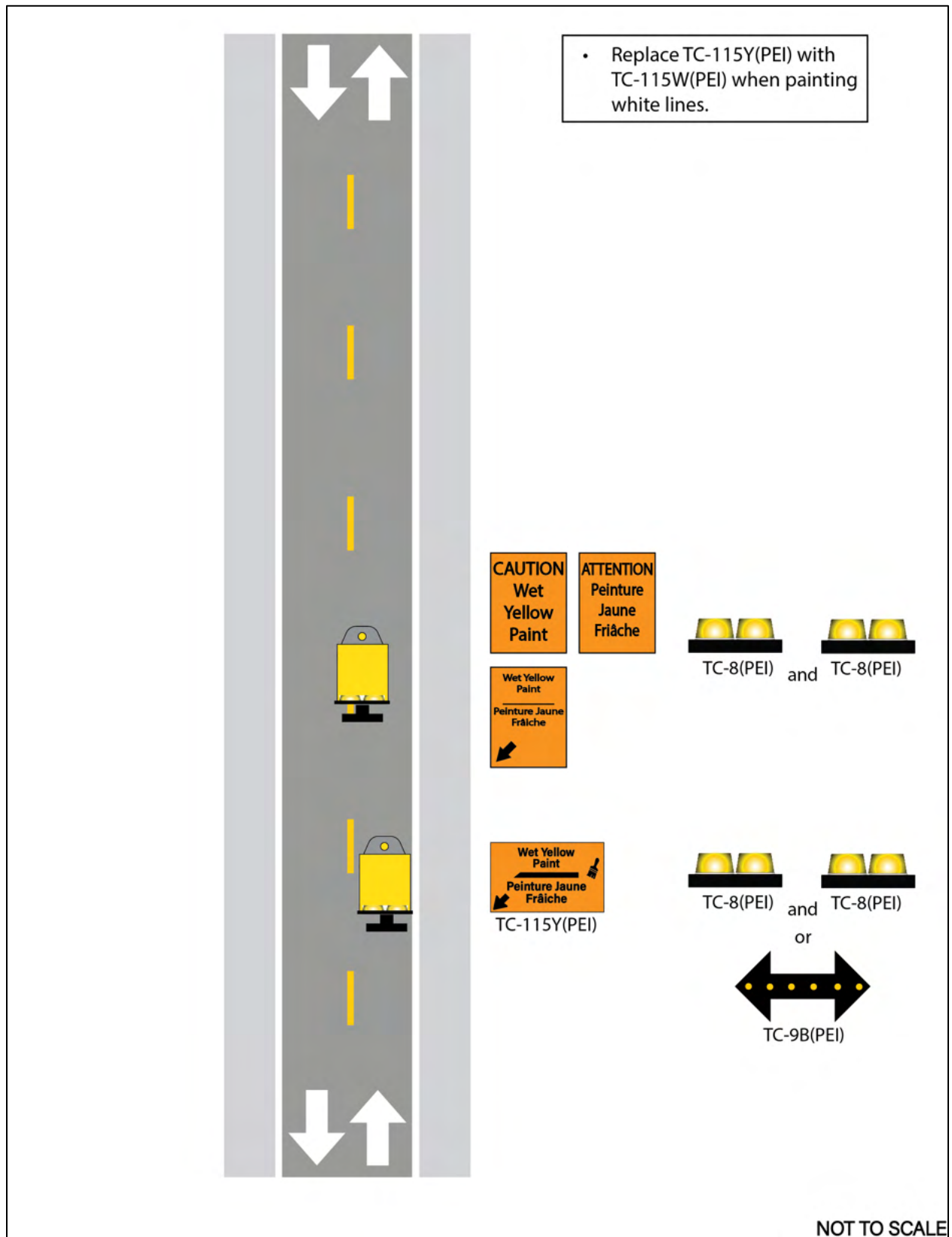






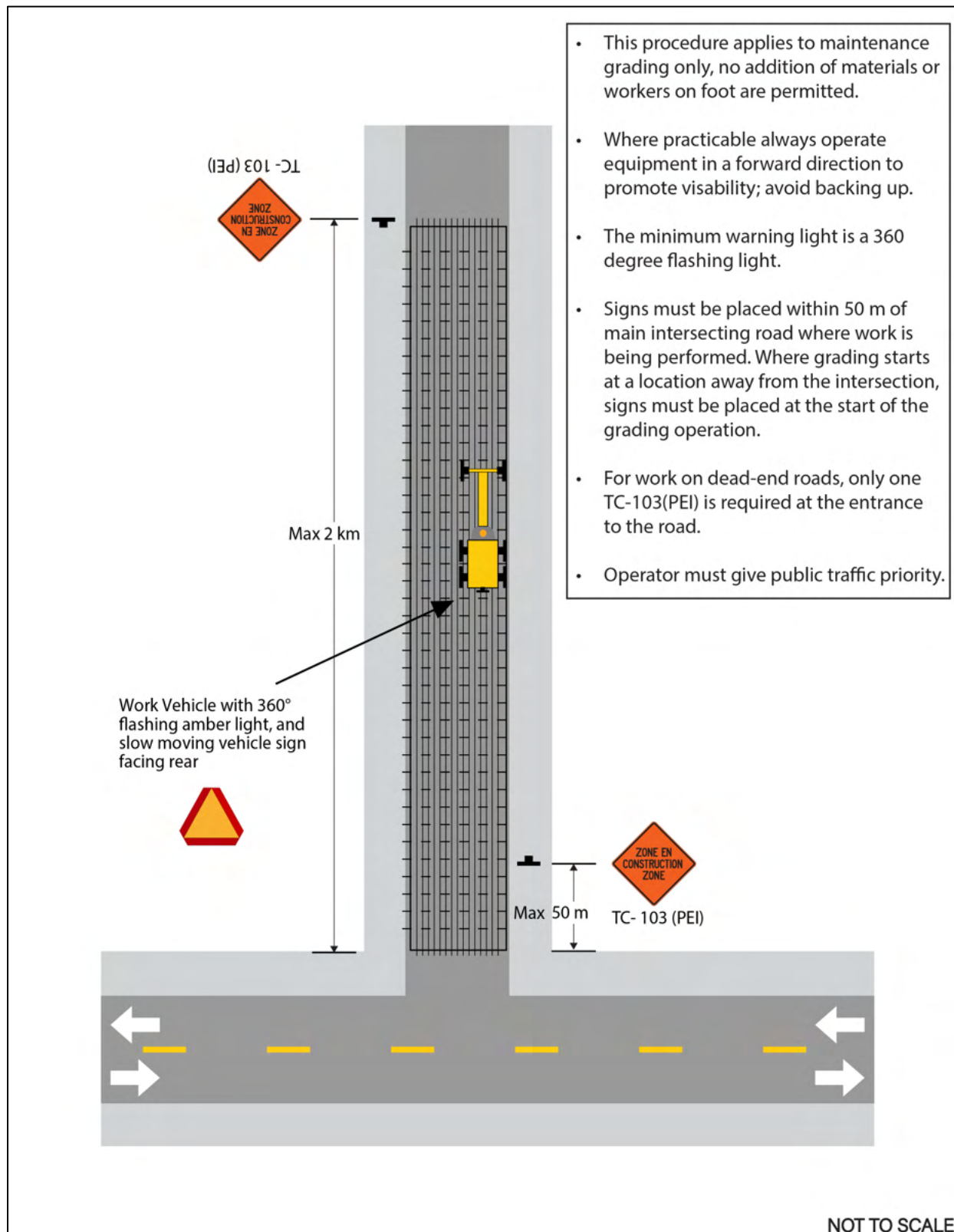


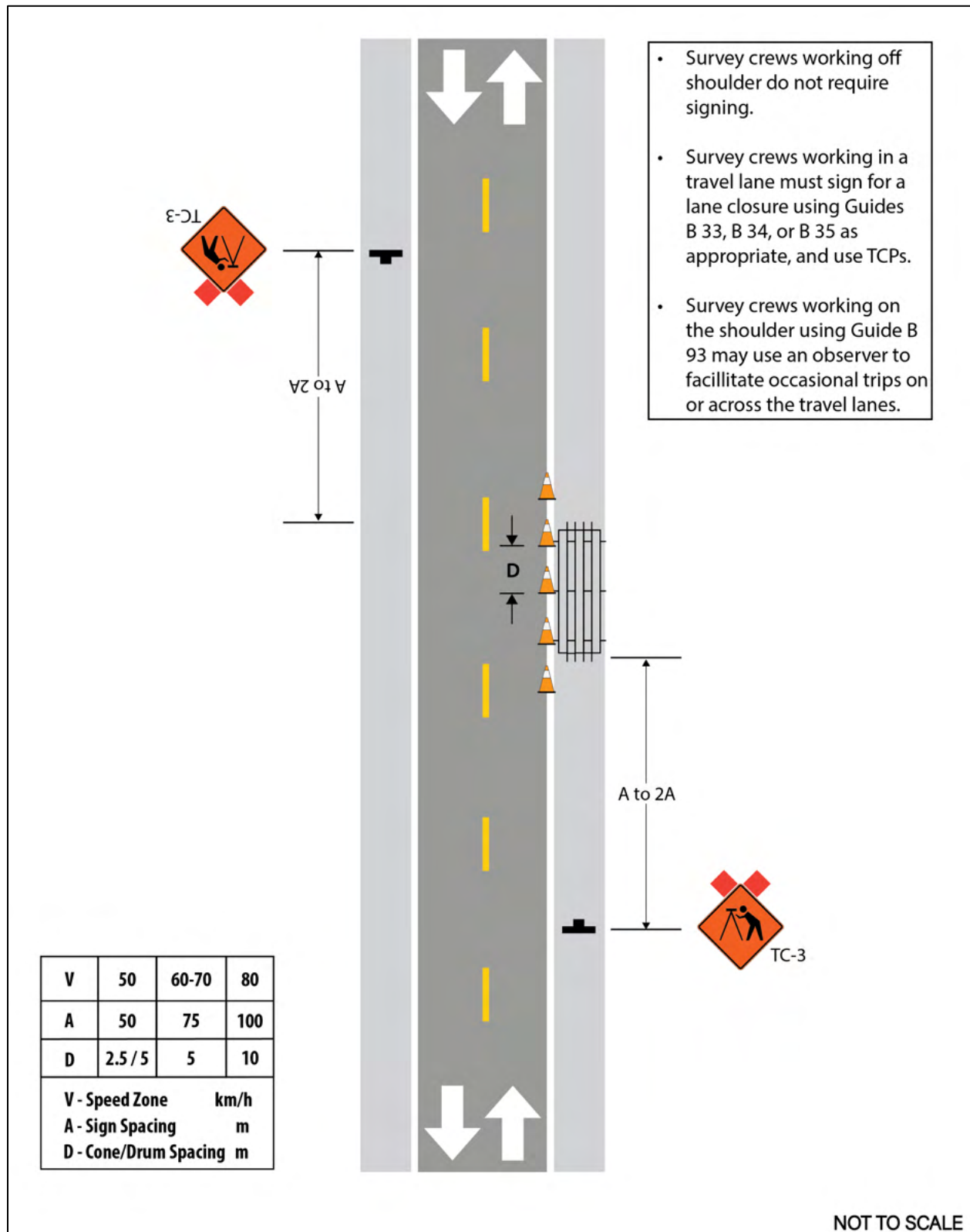




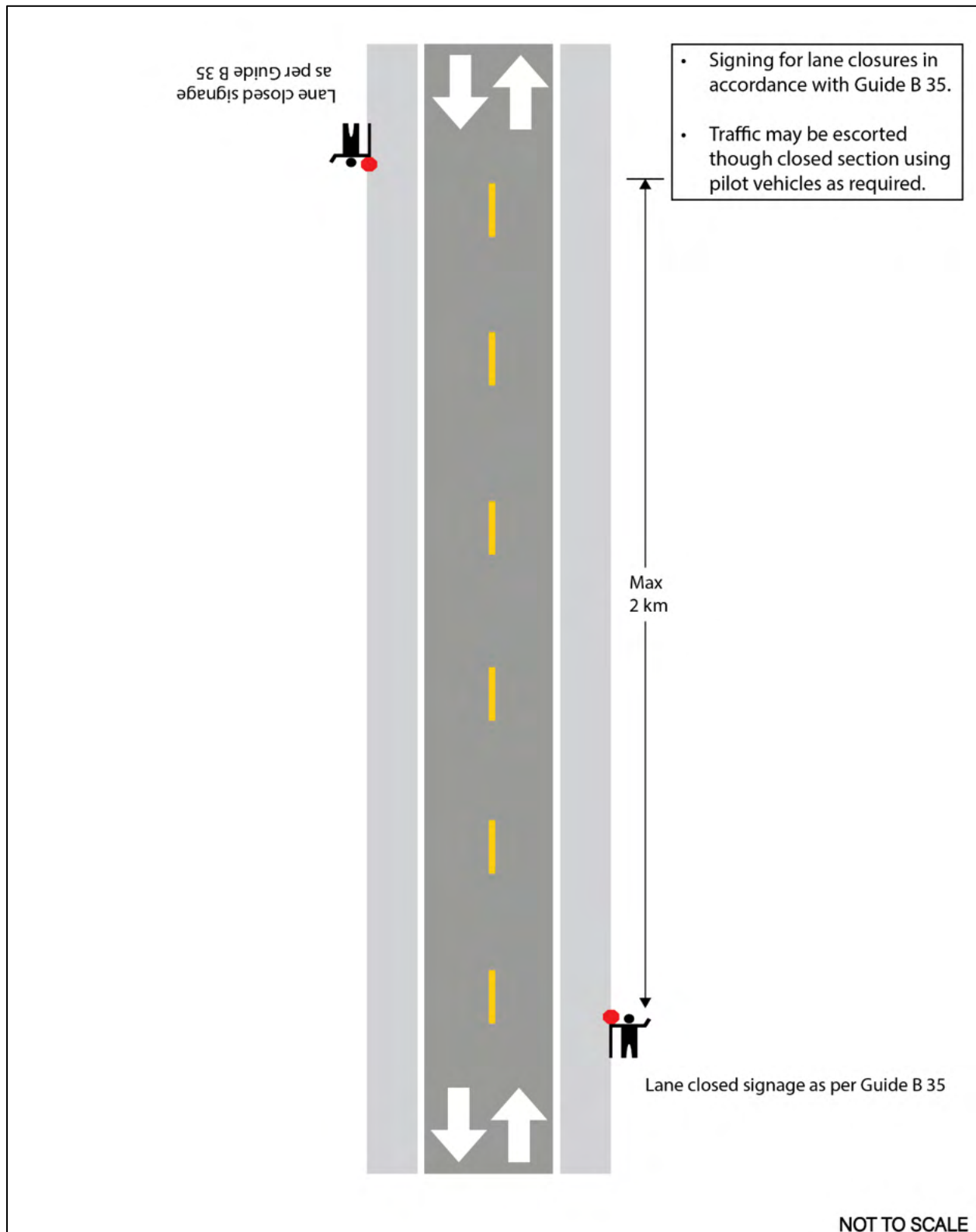
Maintenance Grading: Mobile Continuous, Gravel Roads (Low Volume)

Guide B 92

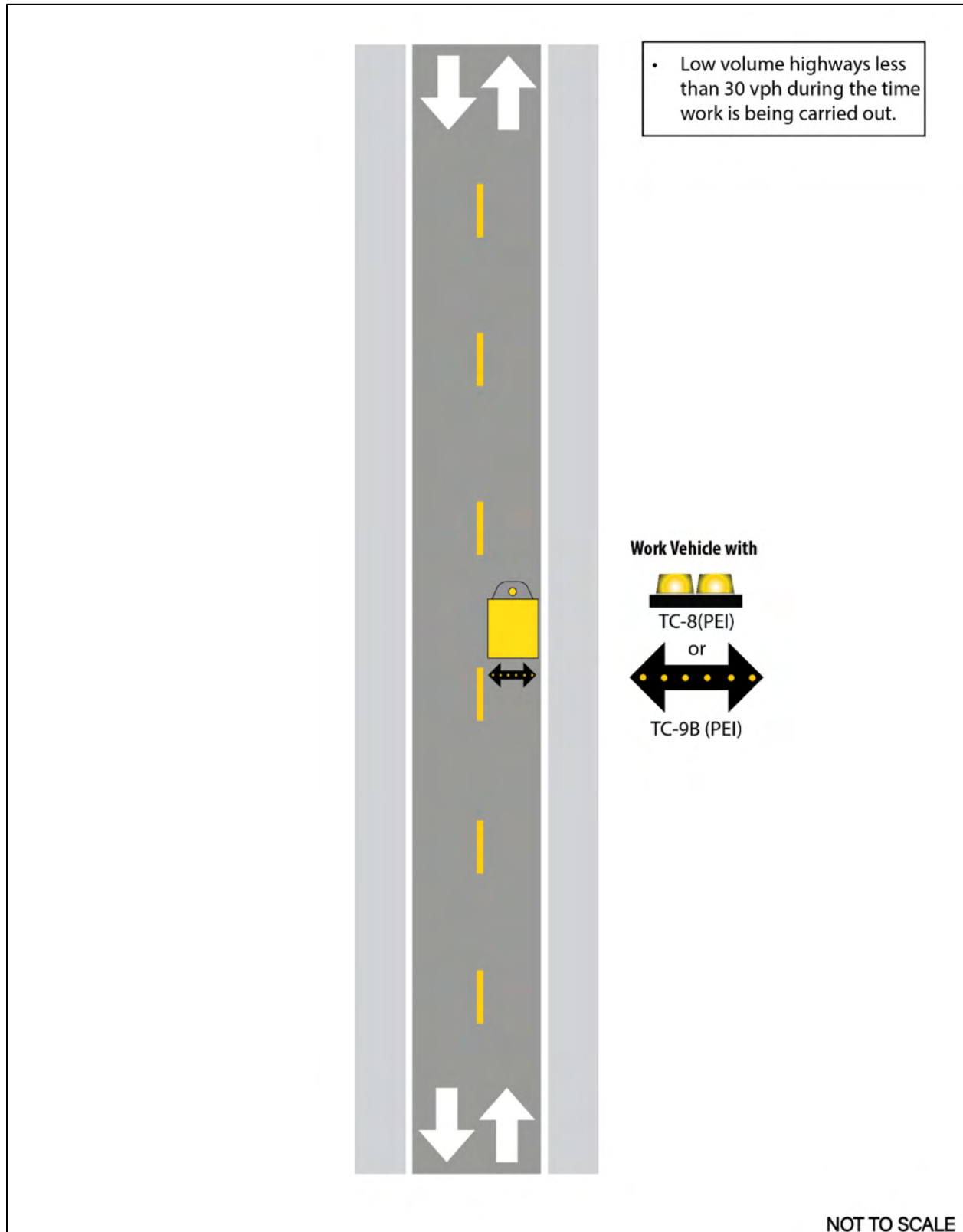


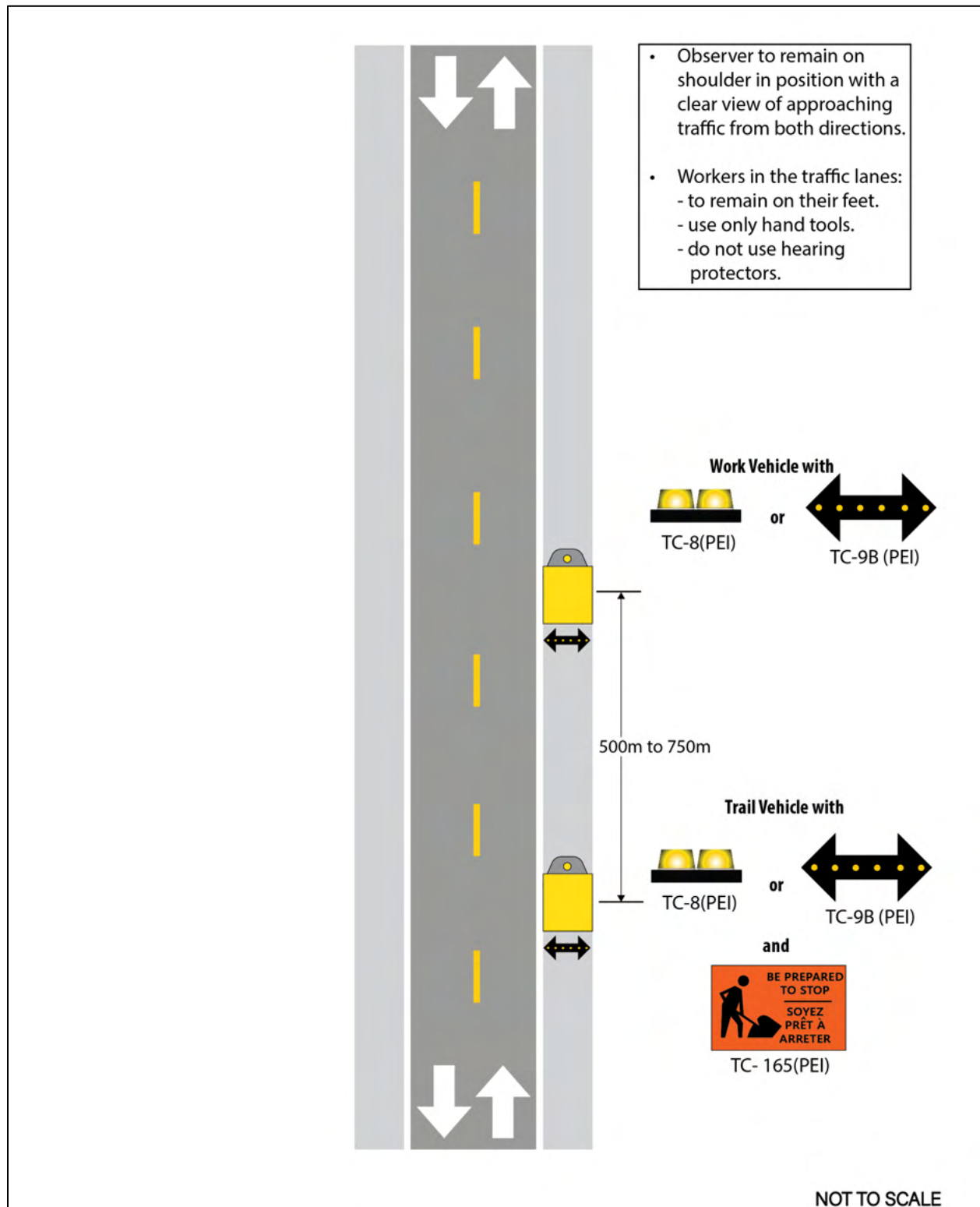


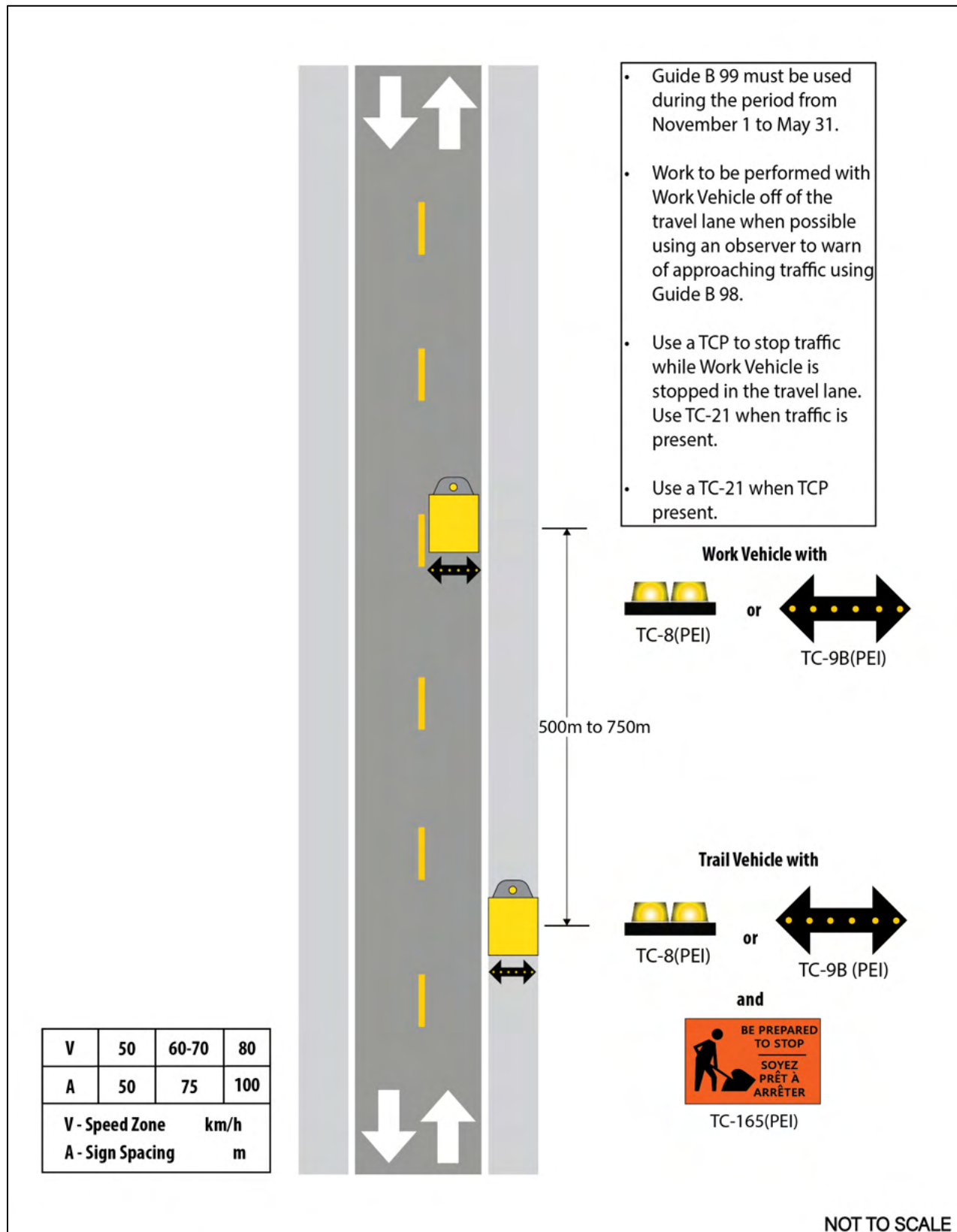
- Survey crews working off shoulder do not require signing.
- Survey crews working in a travel lane must sign for a lane closure using Guides B 33, B 34, or B 35 as appropriate, and use TCPs.
- Survey crews working on the shoulder using Guide B 93 may use an observer to facilitate occasional trips on or across the travel lanes.



Lane Closed: Mobile Continuous, Two-Way Two-Lane (Low Volume) **Guide B 97**







Application Guides ‘C’ Urban and Residential

<u>Work Location</u>	<u>Work Duration</u>	<u>Highway Type (Special Condition)</u>	<u>Guide</u>
Park Lane / Shoulder	All Durations	Two-Way Two-Lane	C 12
Park Lane / Shoulder	All Durations	Two-Way Two-Lane (Excavation)	C 15
Partial Lane Closed	Very Short Duration	Two-Way Two-Lane (Low Volume)	C 20
Partial Lane Closed	Short Duration	Two-Way Two-Lane (Low Volume)	C 21
Partial Lane Closed	Short Duration	Two-Way Two-Lane (Altered Centreline)	C 23
Lane Closed	Very Short Duration	Two-Way Two-Lane (Low Volume)	C 32
Lane Closed	Very Short Duration	Two-Way Two-Lane	C 33
Lane Closed	Short Duration	Two-Way Two-Lane (Low Volume)	C 34
Lane Closed	Short Duration	Two-Way Two-Lane	C 35
Lane Closed	Short Duration	Two-Way Two-Lane (Day Work)	C 35A
Lane Closed	Long Duration	Two-Way (Traffic Control Signals)	C 51

<u>Signing Illustration</u>	<u>Work Duration</u>	<u>Highway Type</u>	<u>Guide</u>
Construction Zone	Long Duration	Two-Way Two-Lane	C 72
Construction and Long Patch	Long Duration	Two-Way Two-Lane	C 73
Haul Road	All Durations	Two-Way Two-Lane	C 76
Detour	All Durations	Two-Way Two-Lane	C 77

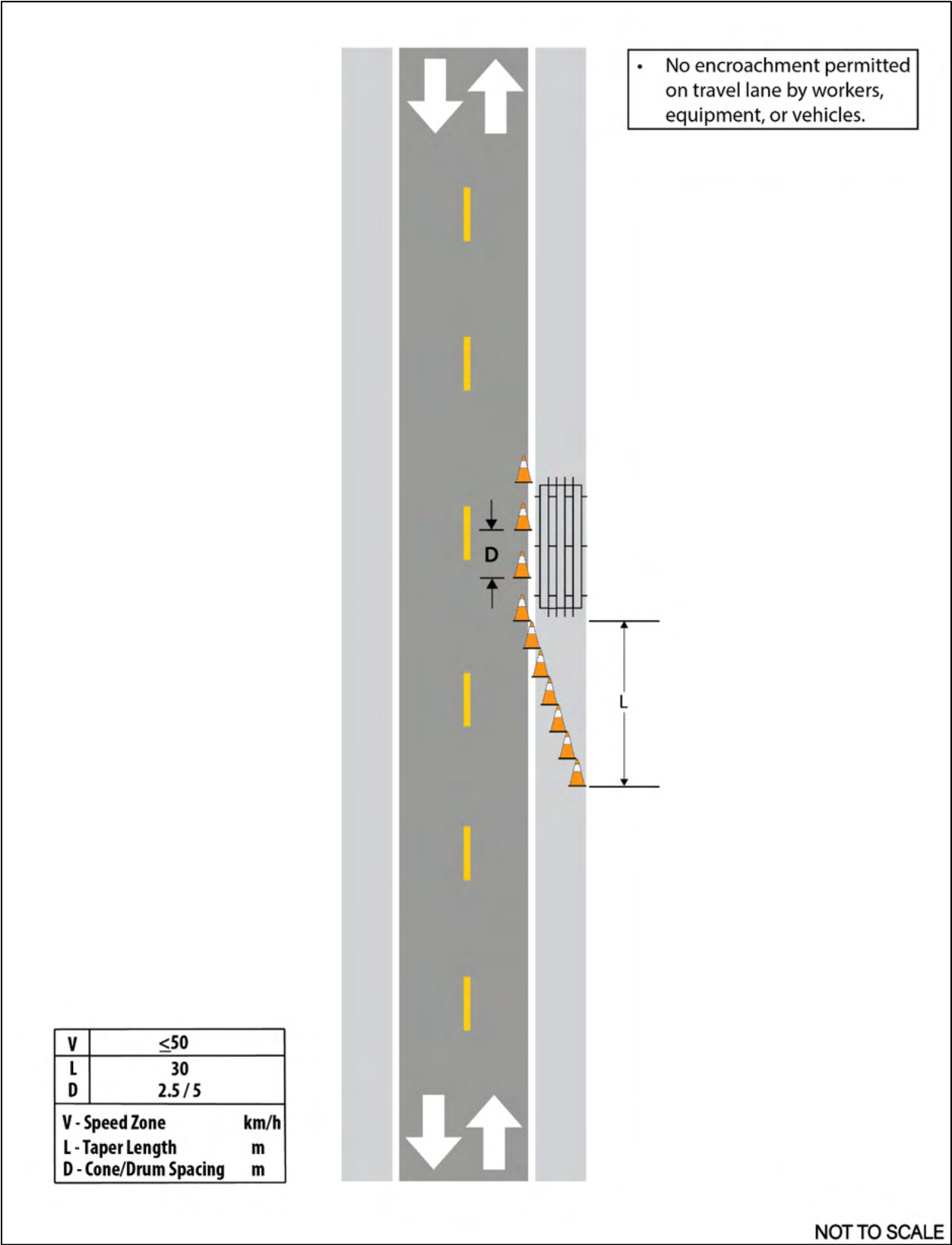
Special Operations

<u>Work Type</u>	<u>Work Duration</u>	<u>Highway Type</u>	<u>Guide</u>
Line Painting	Mobile Continuous	Two-Way Two-Lane	C 91
Survey Crew	Short Duration	Two-Way Two-Lane	C 93
Lane Closed	Mobile Continuous	Two-Way Two-Lane	C 96
Observer Workers	Very Short Duration	Two-Way Two-Lane	C 98

Intersections

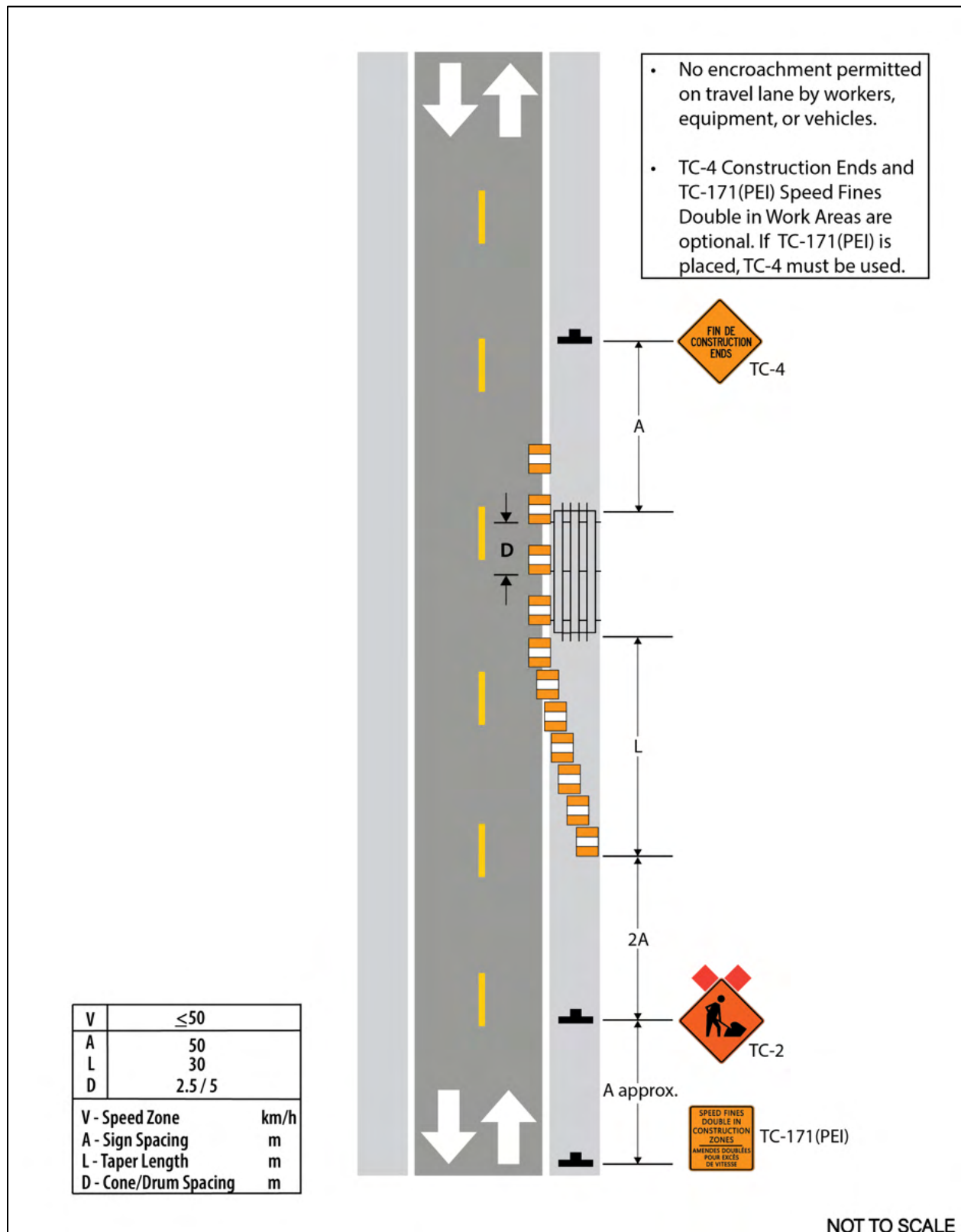
<u>Signing Illustration</u>	<u>Work Duration</u>	<u>Highway Type (Special Condition)</u>	<u>Guide</u>
Partial Lane Closed	Short Duration	Intersection (Work Right, Stop Approach)	C 101
Partial Lane Closed	Short Duration	Intersection (Work Centre, Stop Approach)	C 102
Left Turn Lane Closed	Short Duration	Intersection	C 103
Right Lane Shift	Short Duration	Intersection	C 111
Right Lane Closed	Short Duration	Intersection	C 112
Far Right Lane Detour	Short Duration	Intersection	C 114
Within Intersection	Short Duration	Intersection (Altered Centreline)	C 115
Near Right Lane Detour	Short Duration	Intersection	C 119
Right Lane Detour	Short Duration	Intersection (Multi-Lane Approach)	C 121
Right Lane Closed	Short Duration	Intersection (Multi-Lane Approach)	C 122
Two-Way Left Lane Closed	Short Duration	Intersection (Multi-Lane)	C 123
Within Intersection	Short Duration	Intersection (Multi-Lane Approach)	C 135
Within Intersection	Short Duration	Intersection (Crossing Movement Closed)	C 139





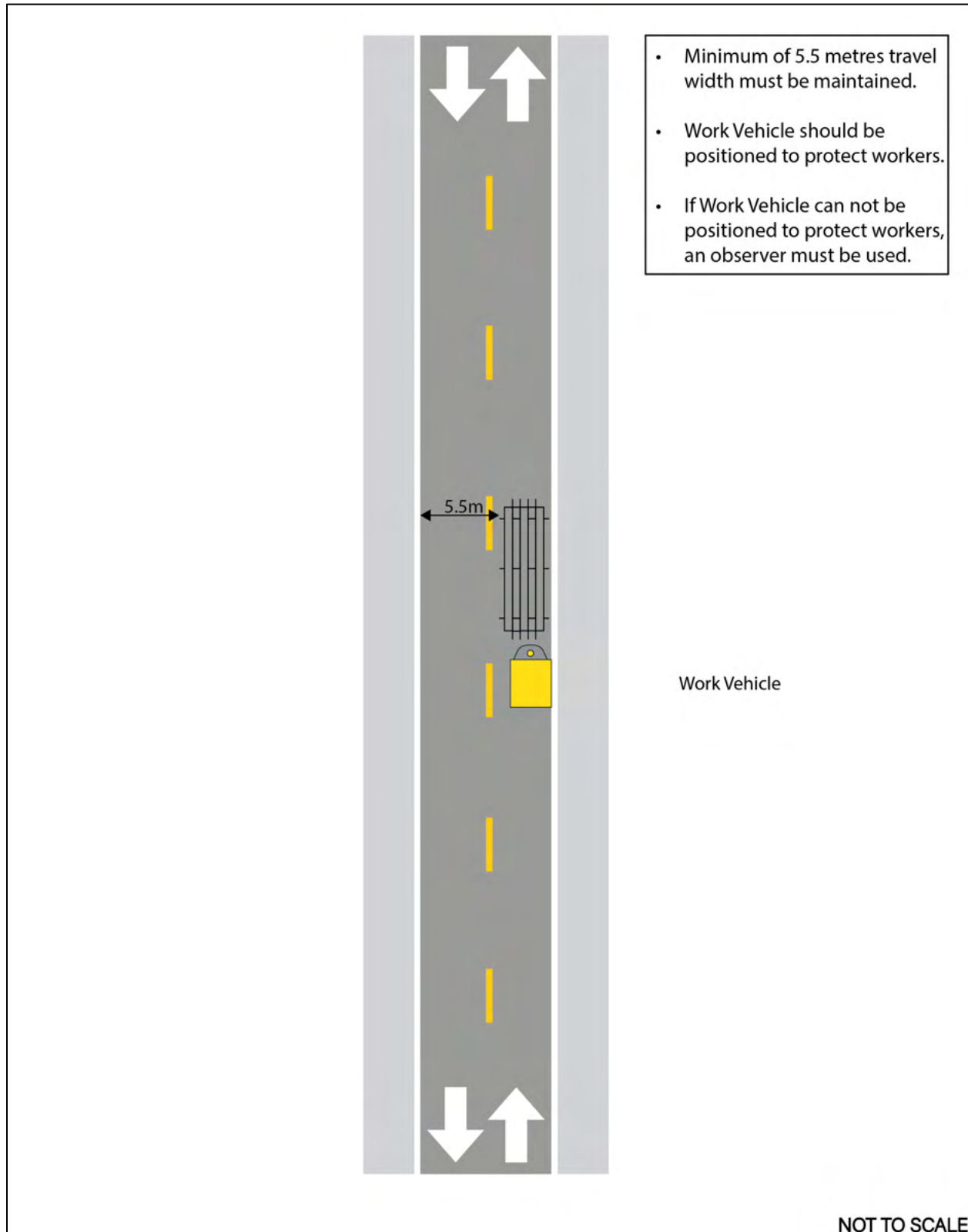
Park Lane/Shoulder Closed: All Durations, Two-Way Two-Lane (Excavation)

Guide C 15



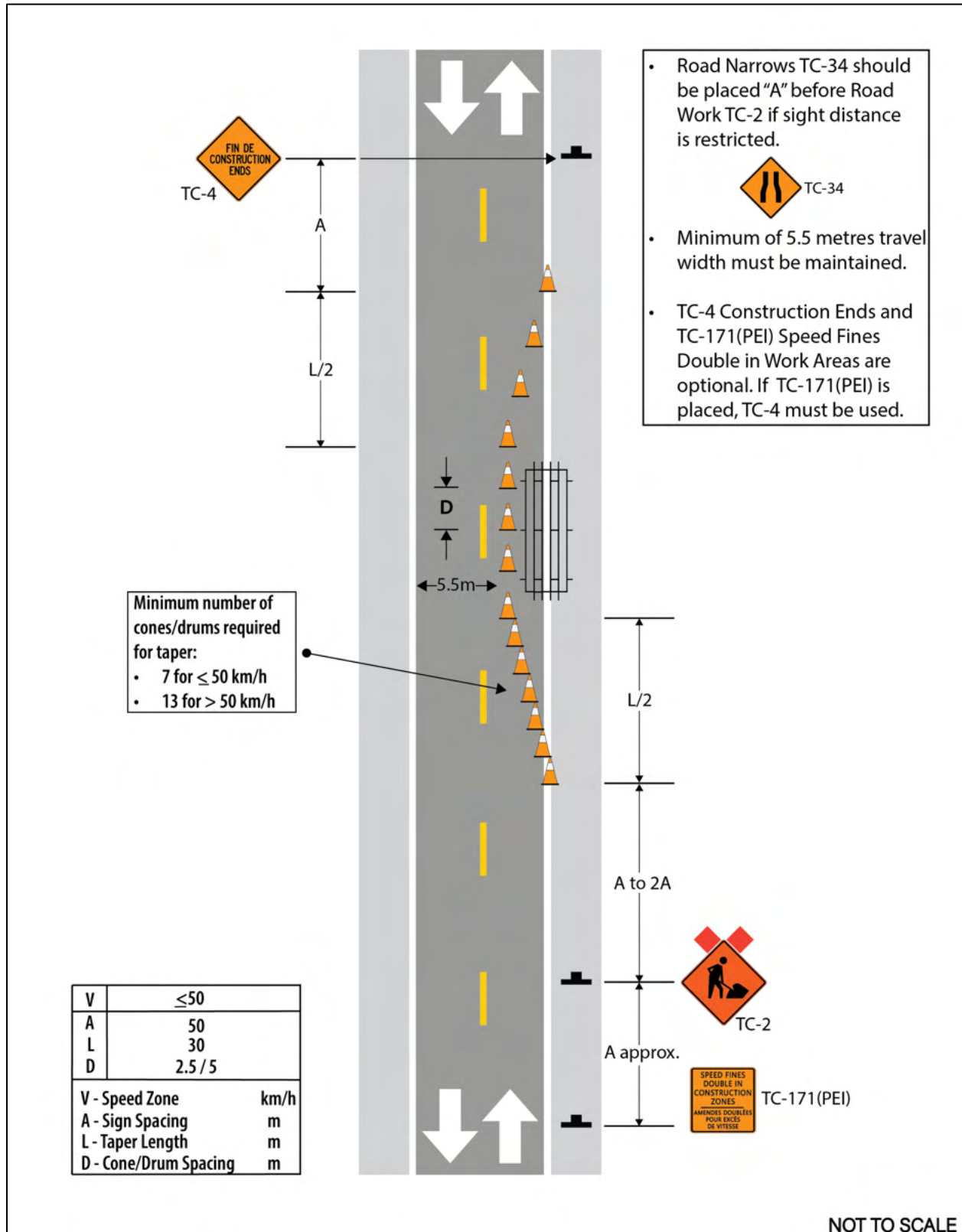
Partial Lane Closed: Very Short Duration, Two-Way Two-Lane (Low Volume)

Guide C 20



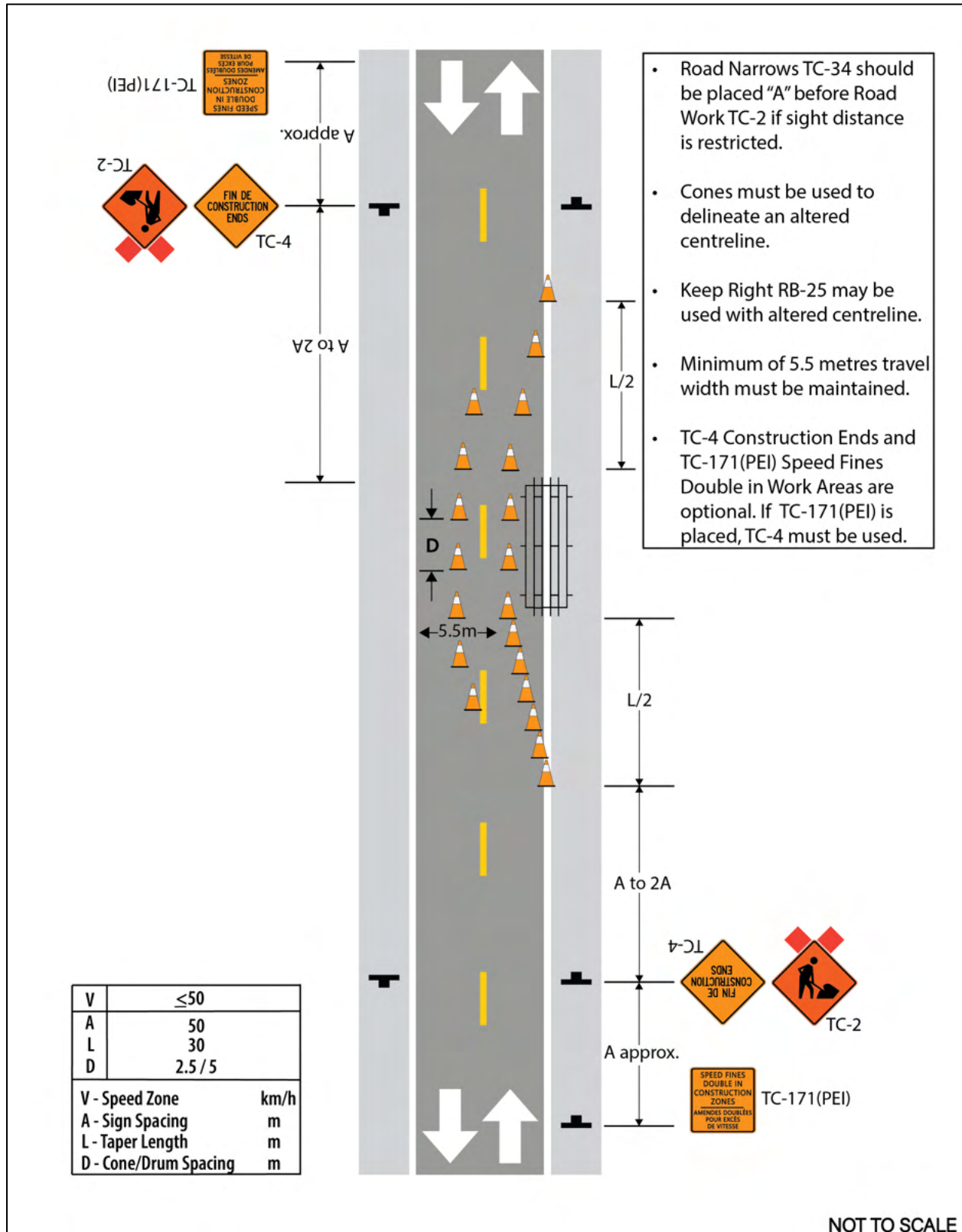
Partial Lane Closed: Short Duration, Two-Way Two-Lane (Low Volume)

Guide C 21



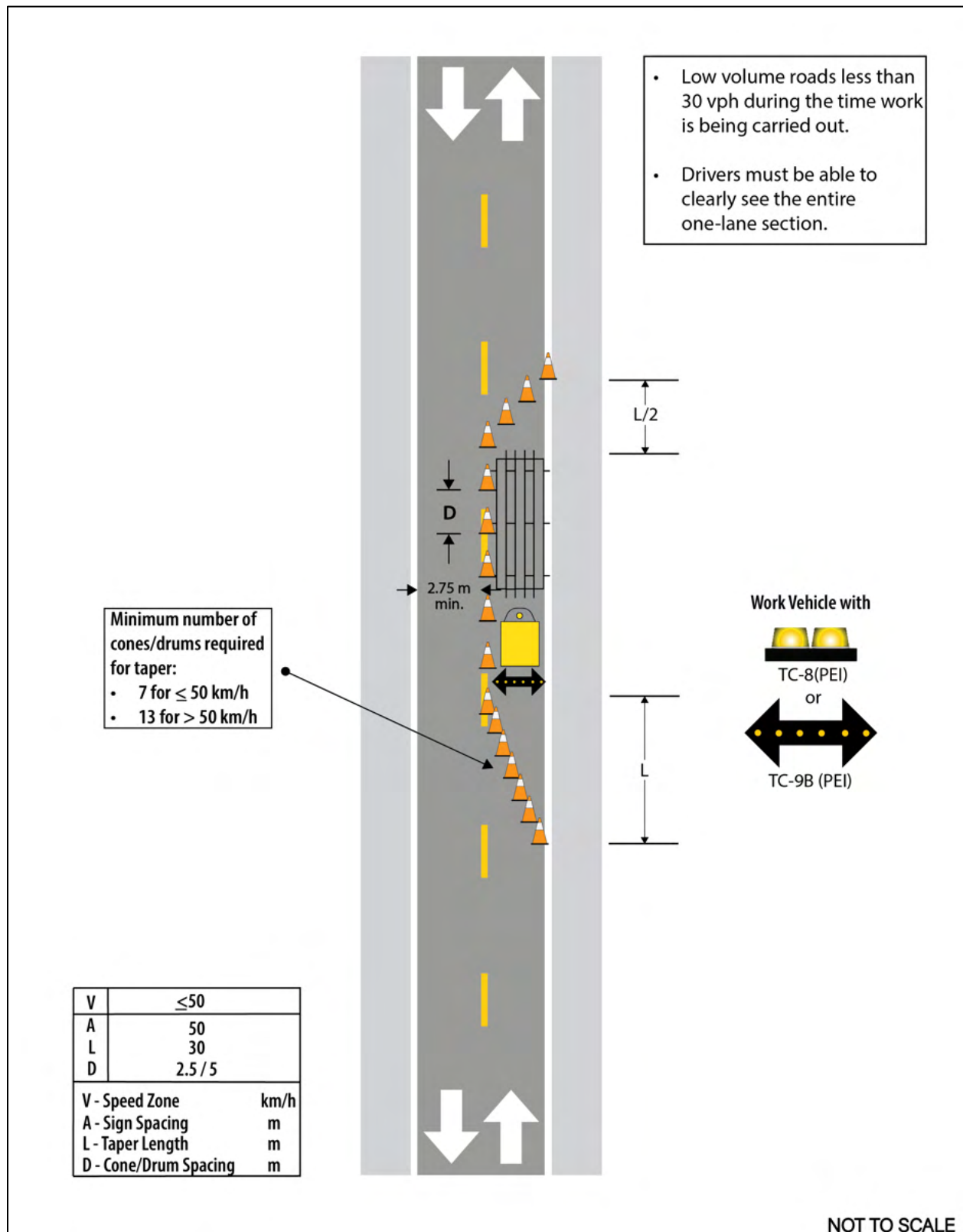
Partial Lane Closed: Short Duration, Two-Way Two-Lane (Altered Centreline)

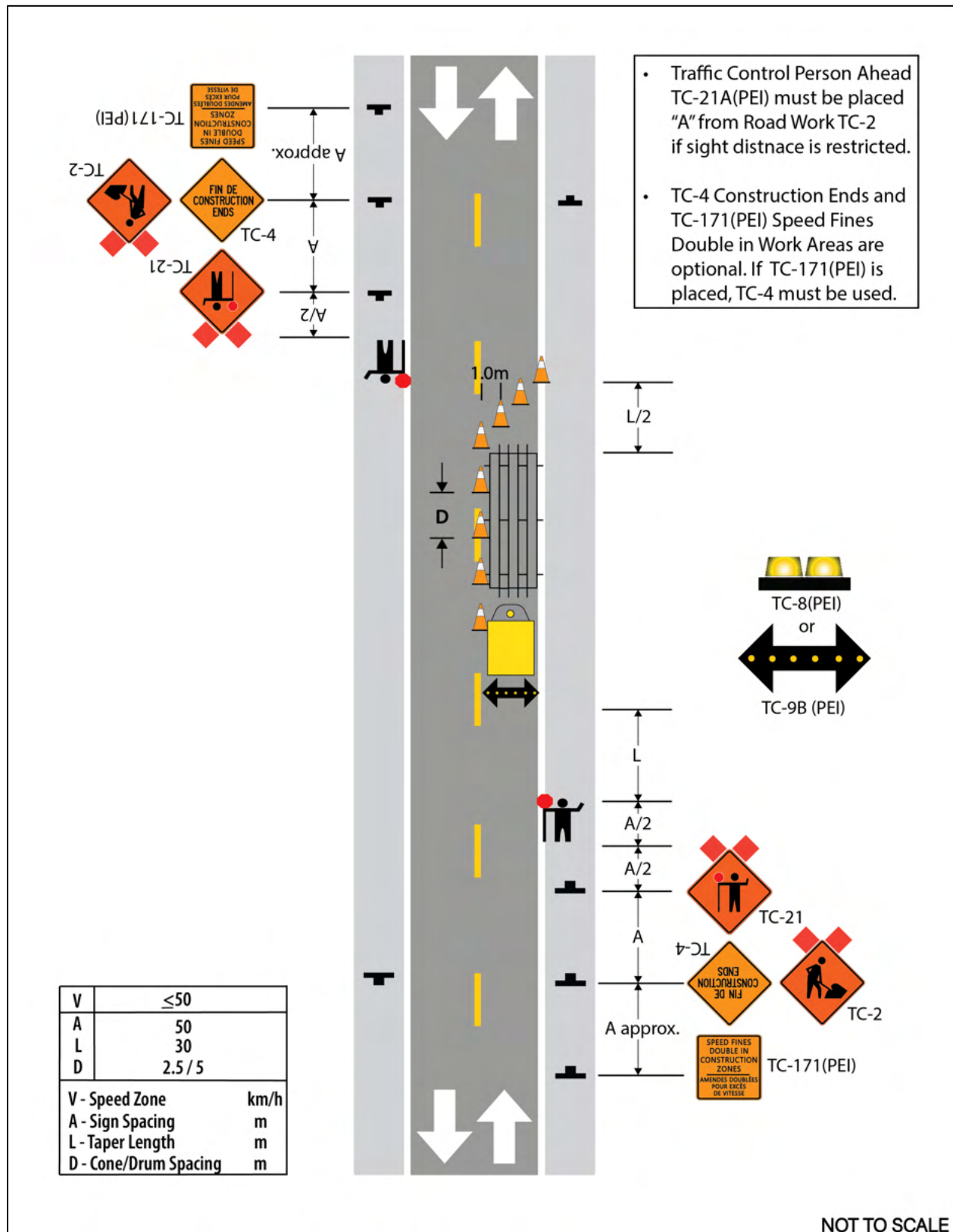
Guide C 23



Lane Closed: Very Short Duration, Two-Way Two-Lane (Low Volume)

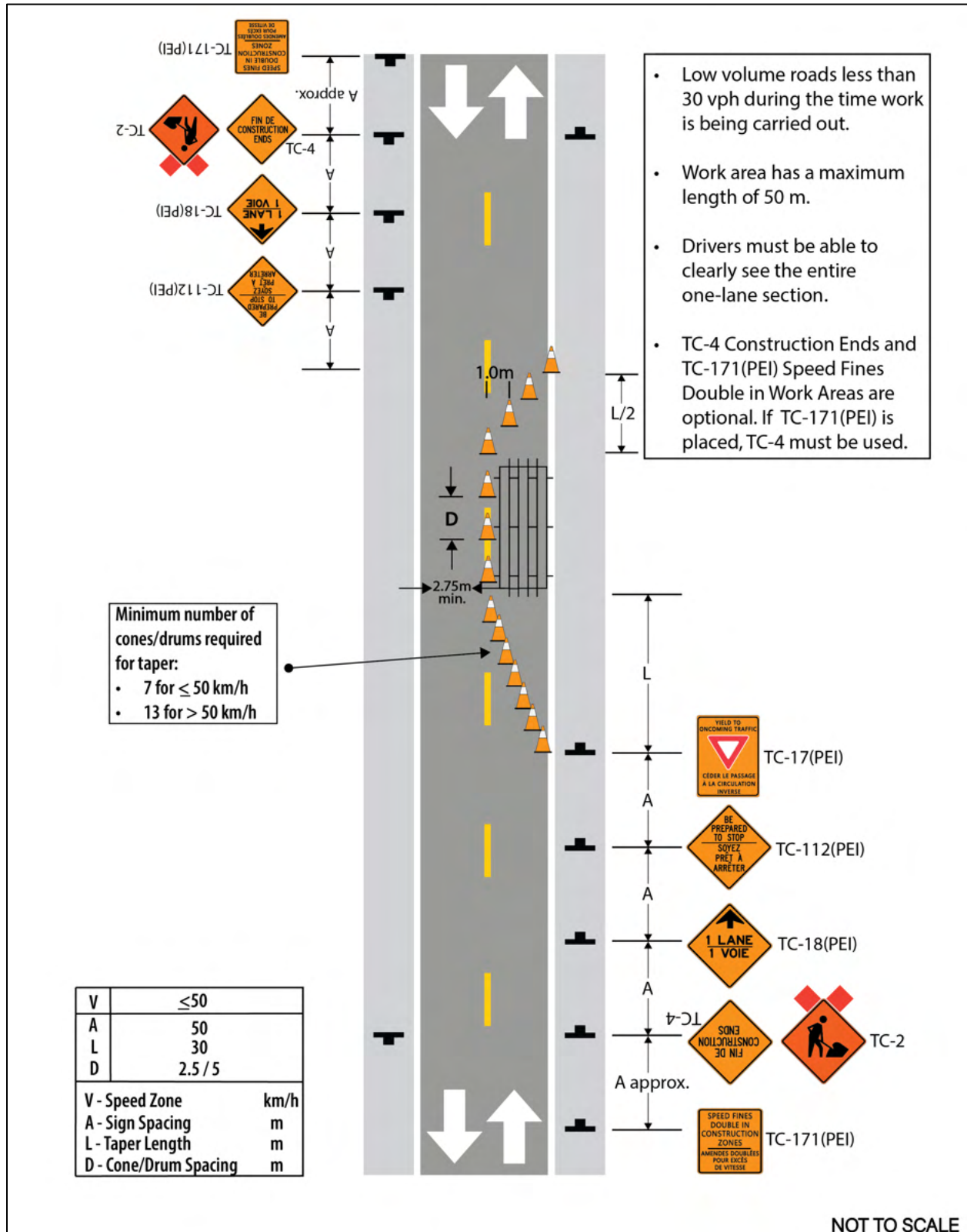
Guide C 32

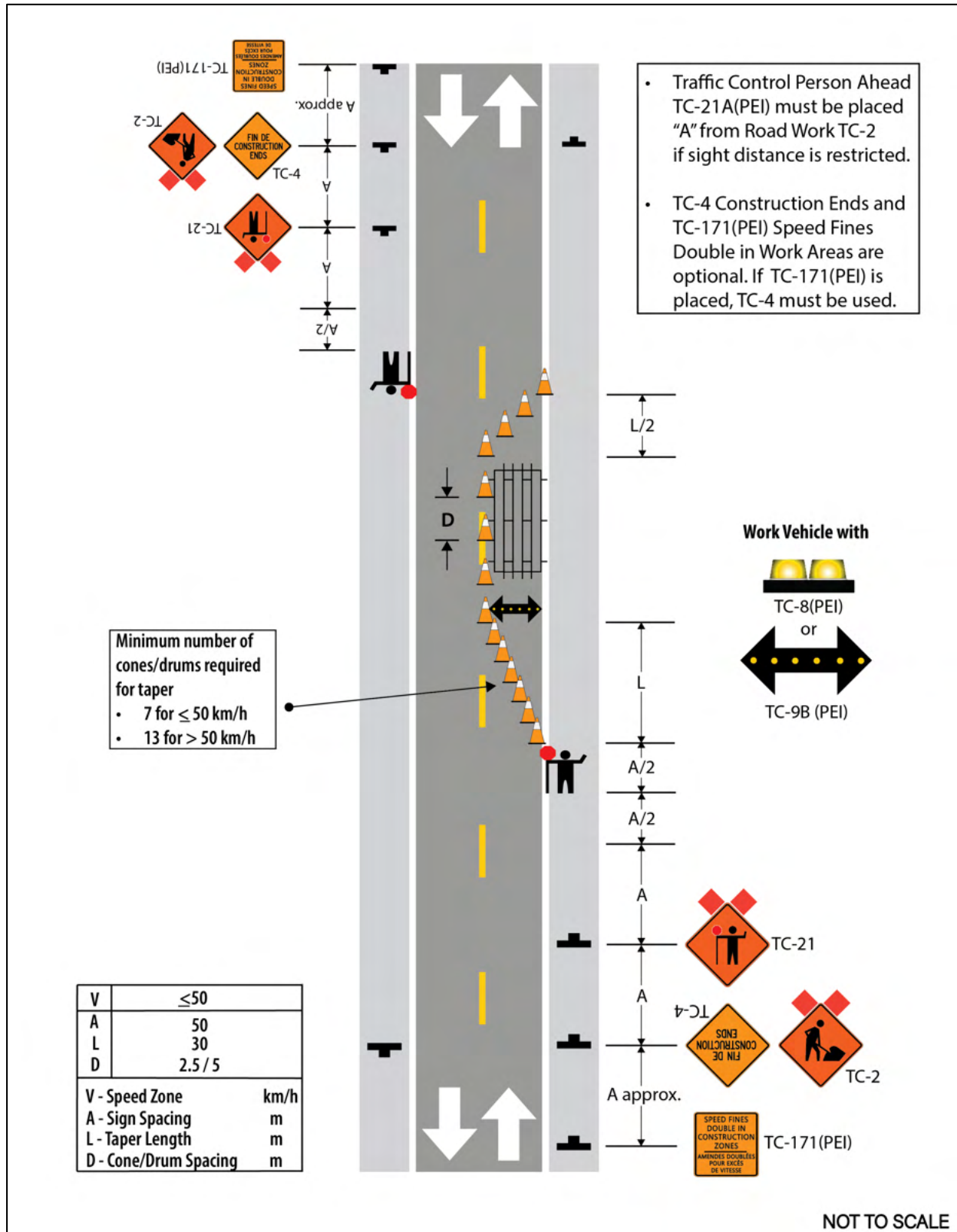




Lane Closed: Short Duration, Two-Way Two-Lane (Low Volume)

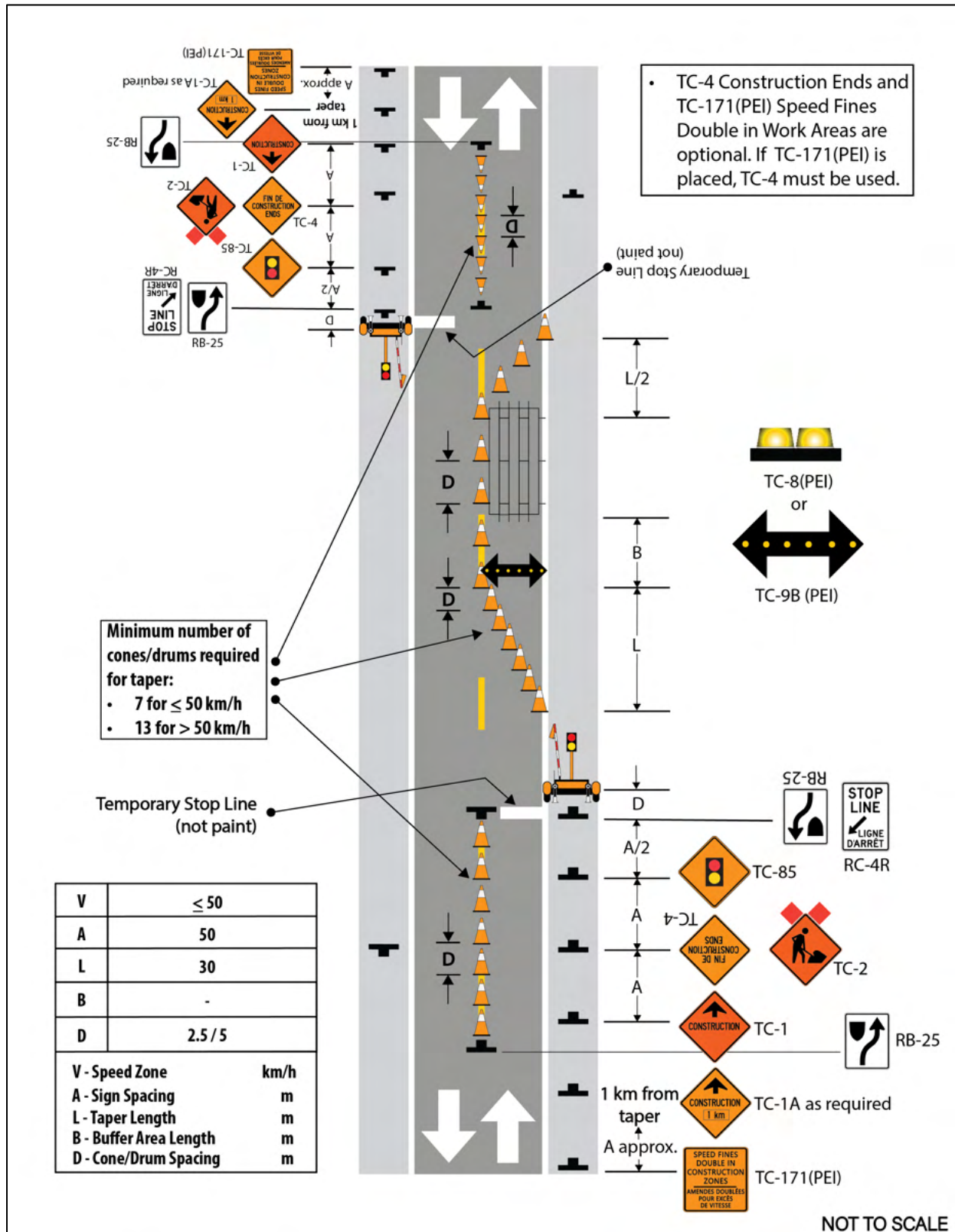
Guide C 34





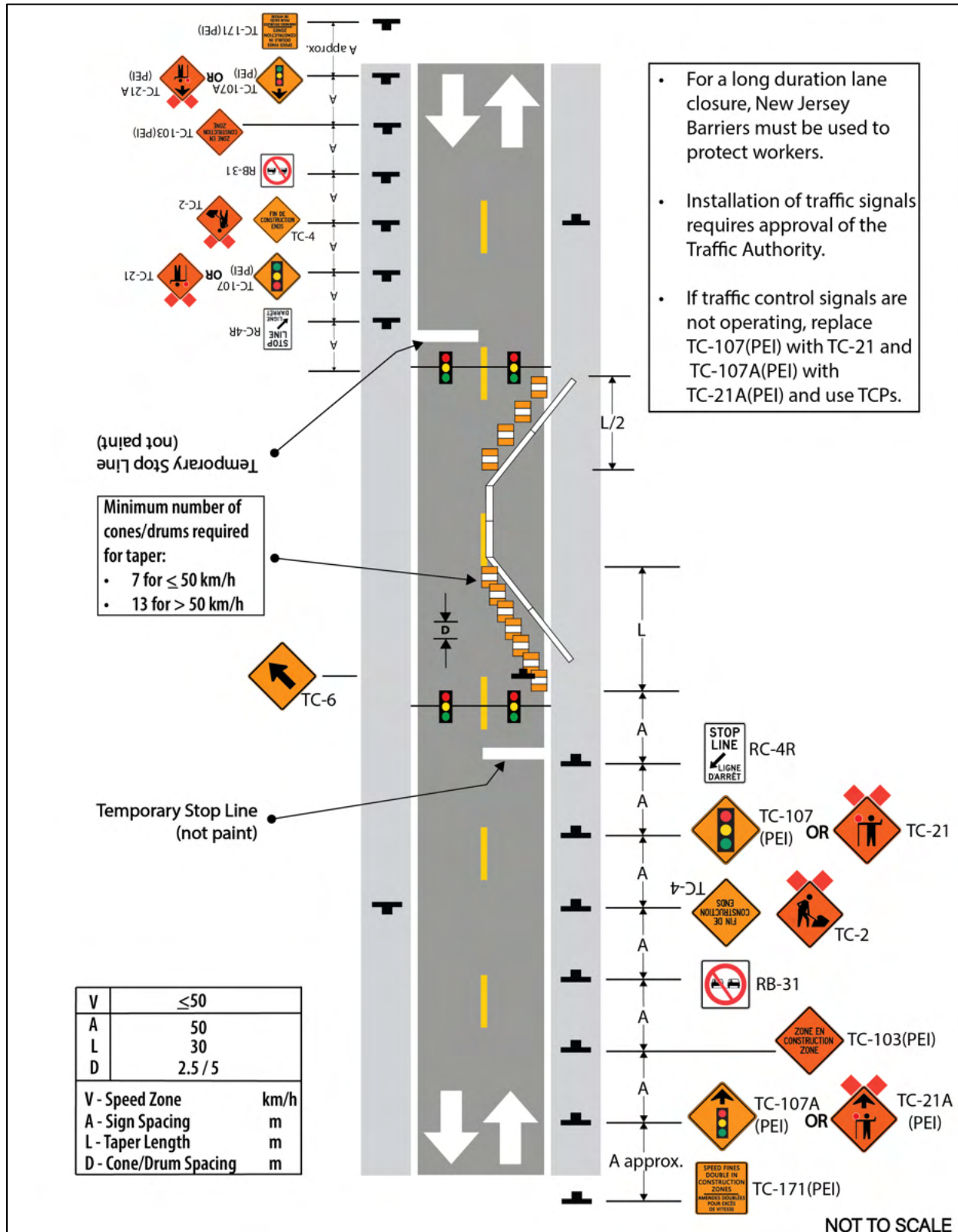
Lane Closed: Short Duration, Two-Way, Two-Lane (Day Work)

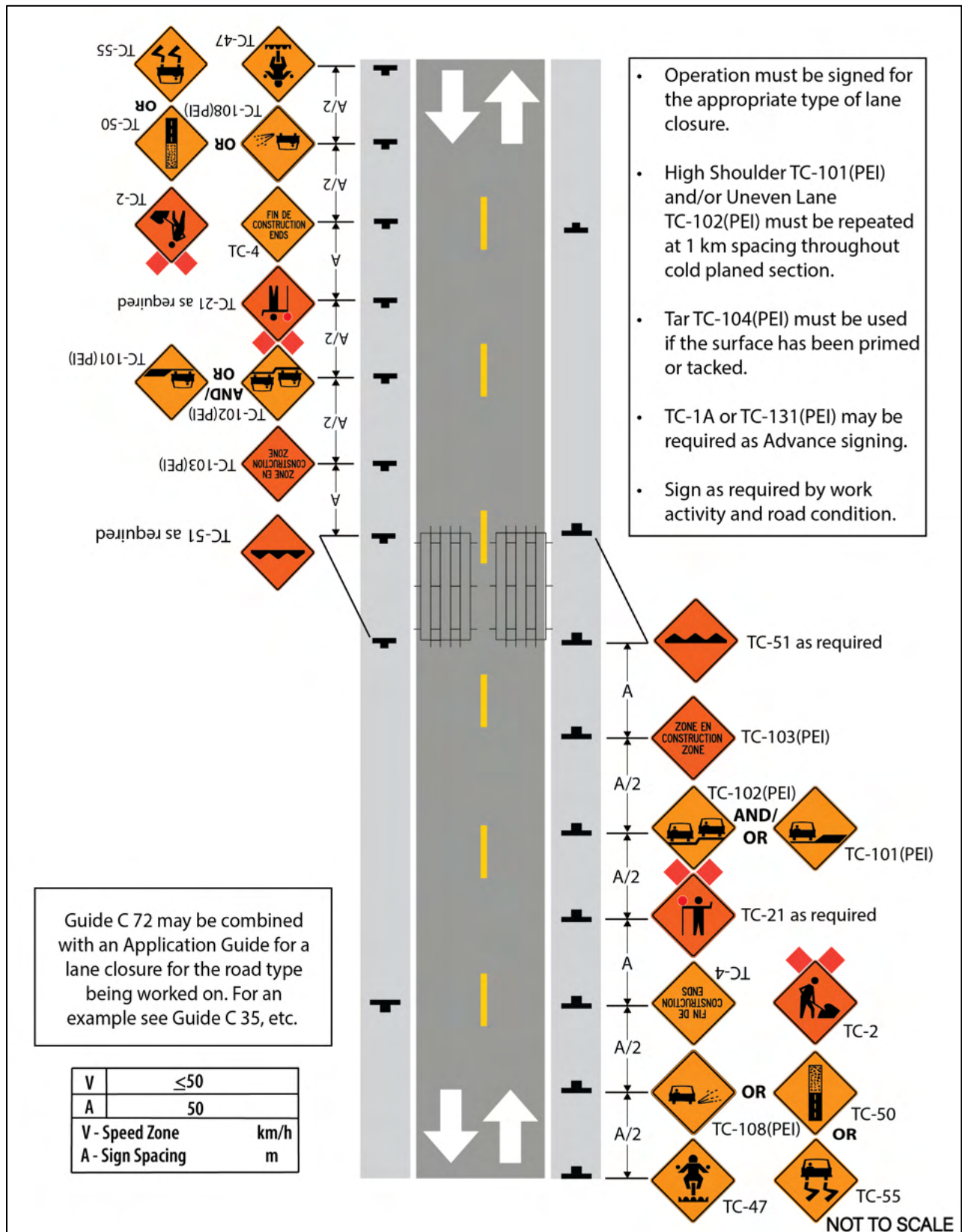
Guide C 35A

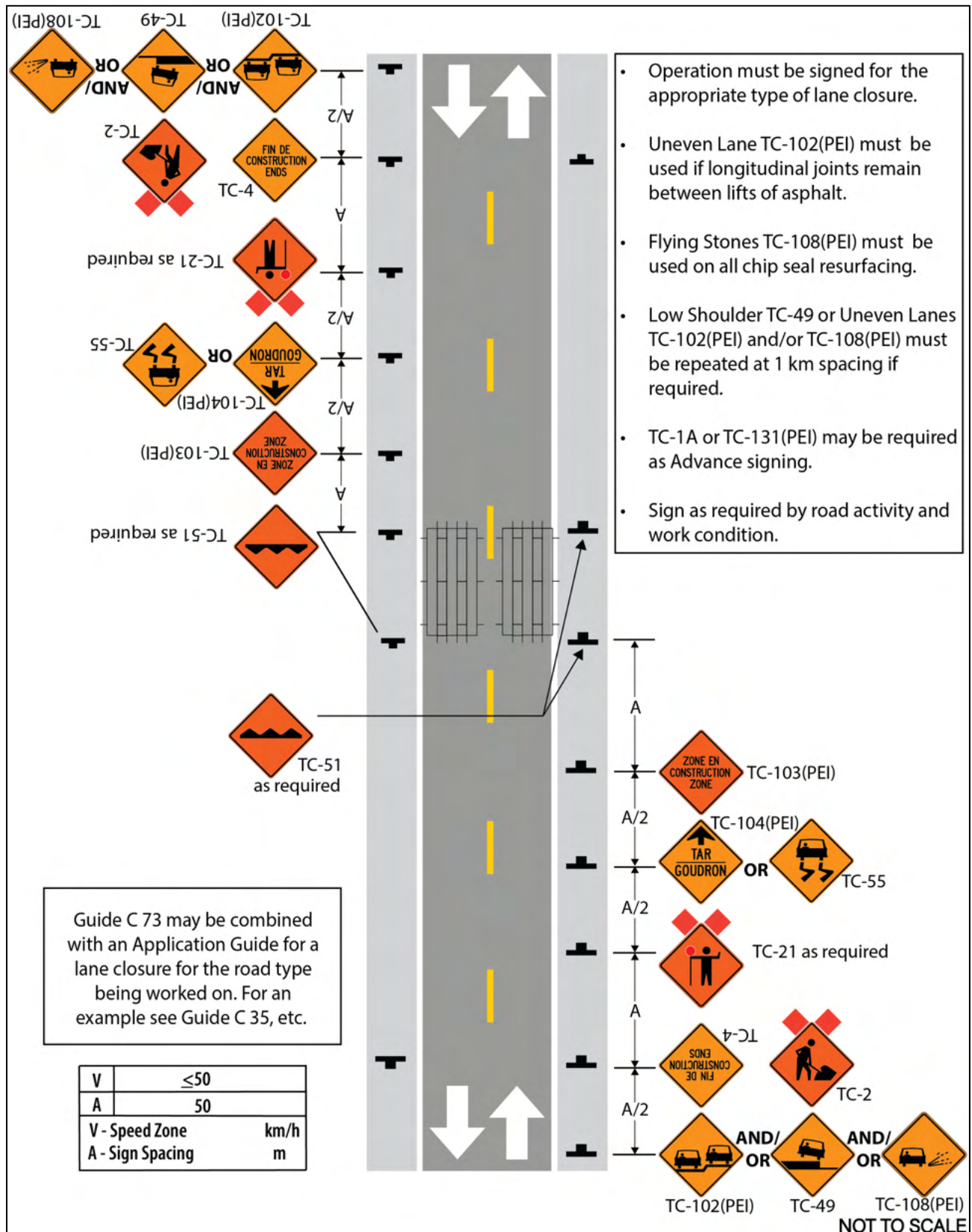


Lane Closed: Long Duration, Two-Way Two-Lane (Traffic Control Signals)

Guide C 51

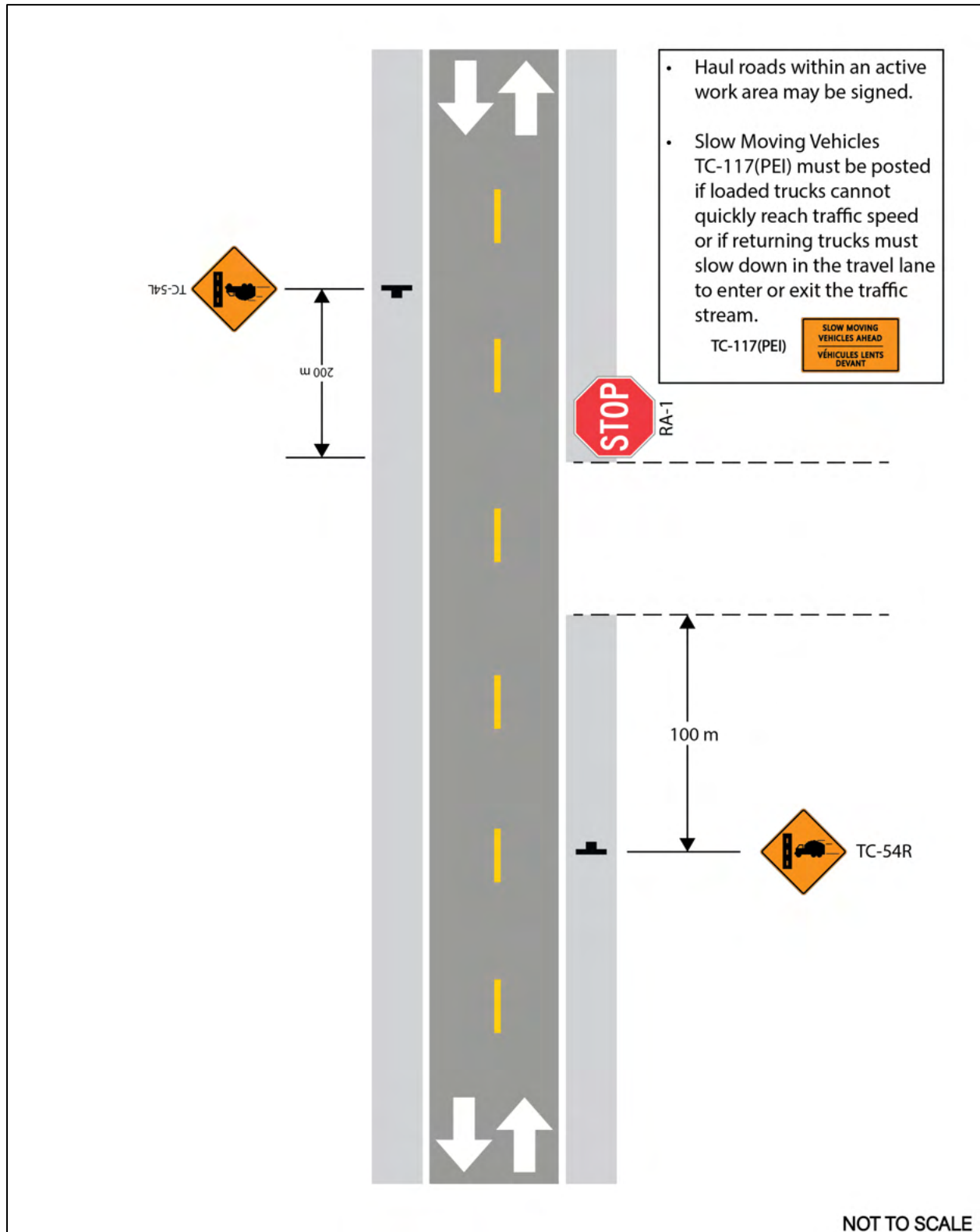


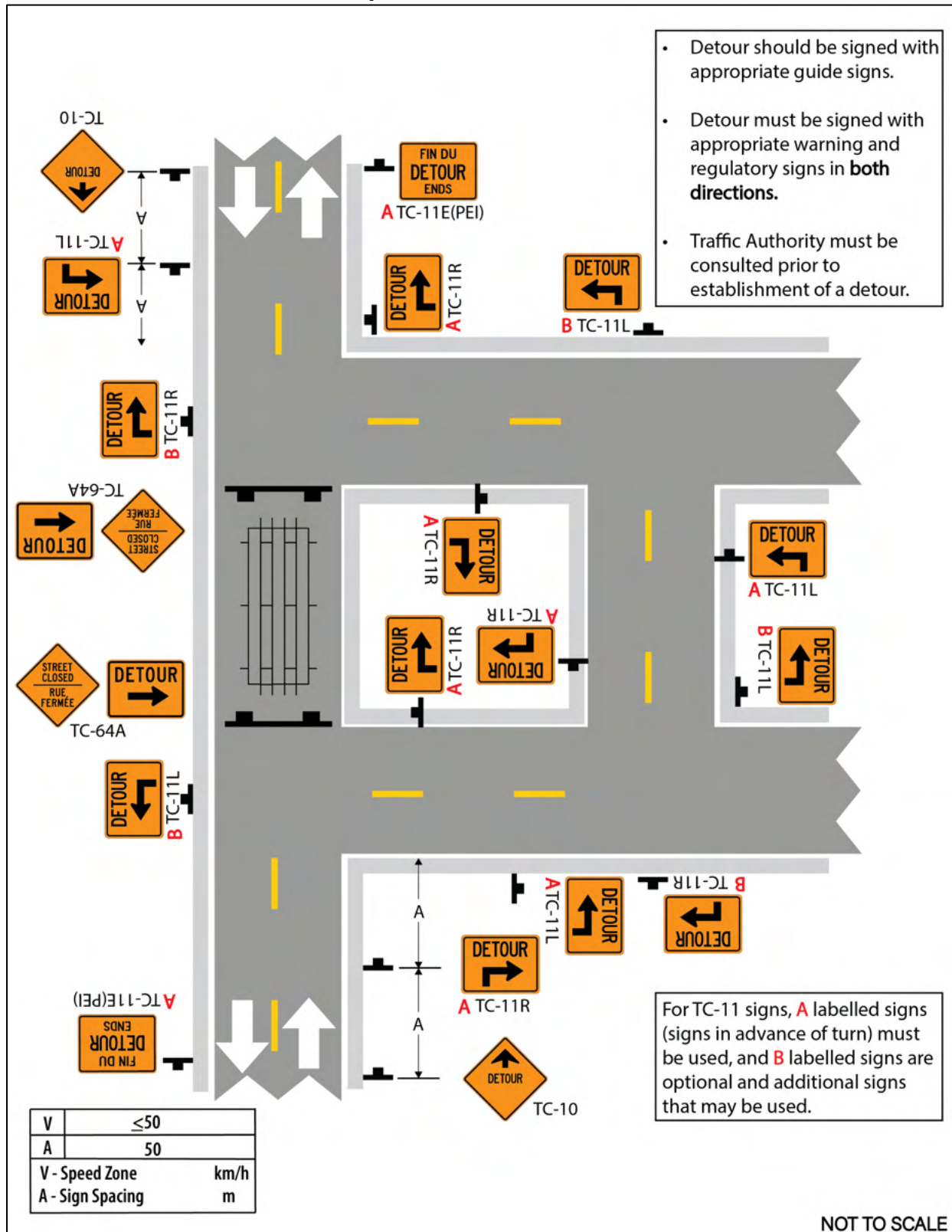


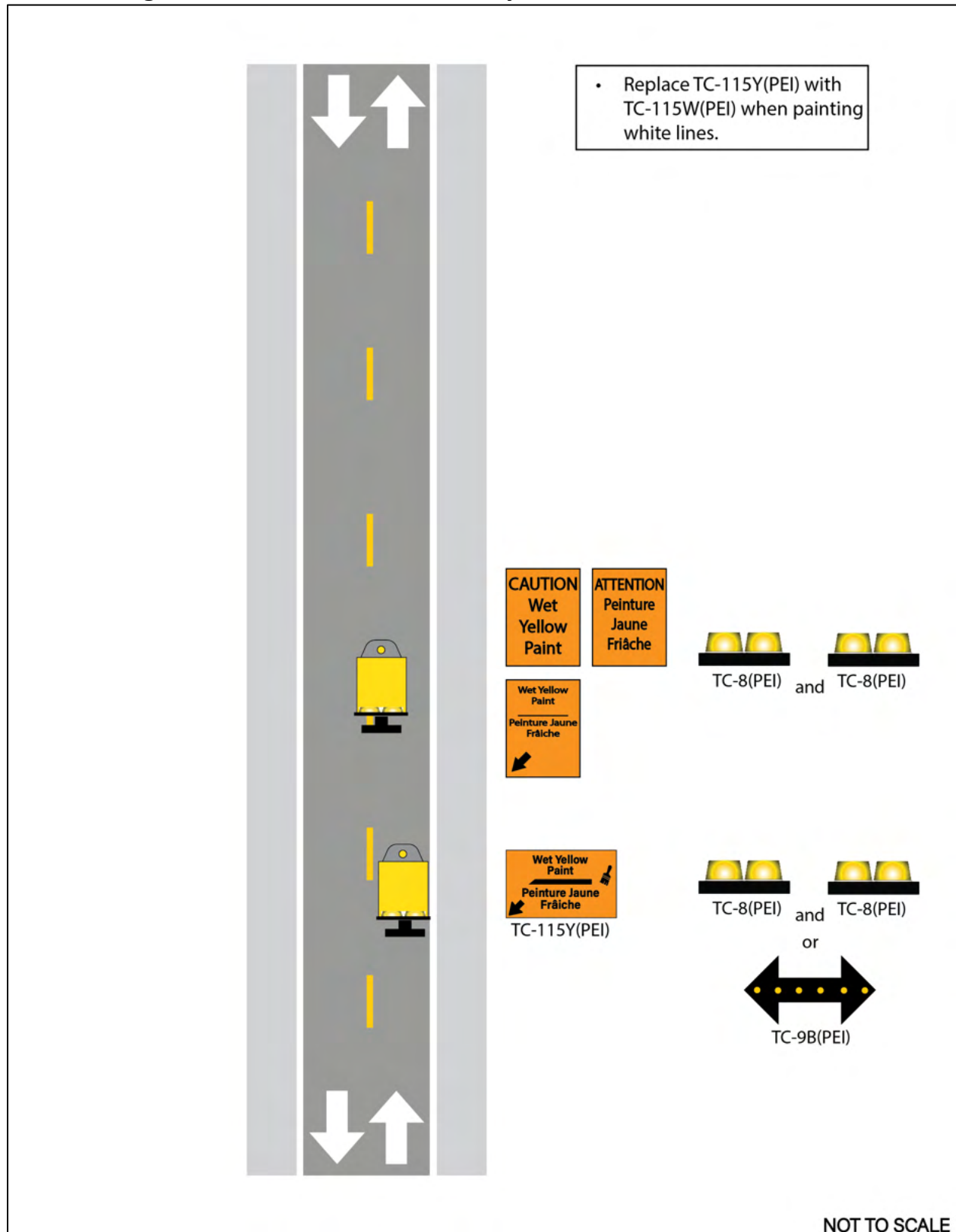


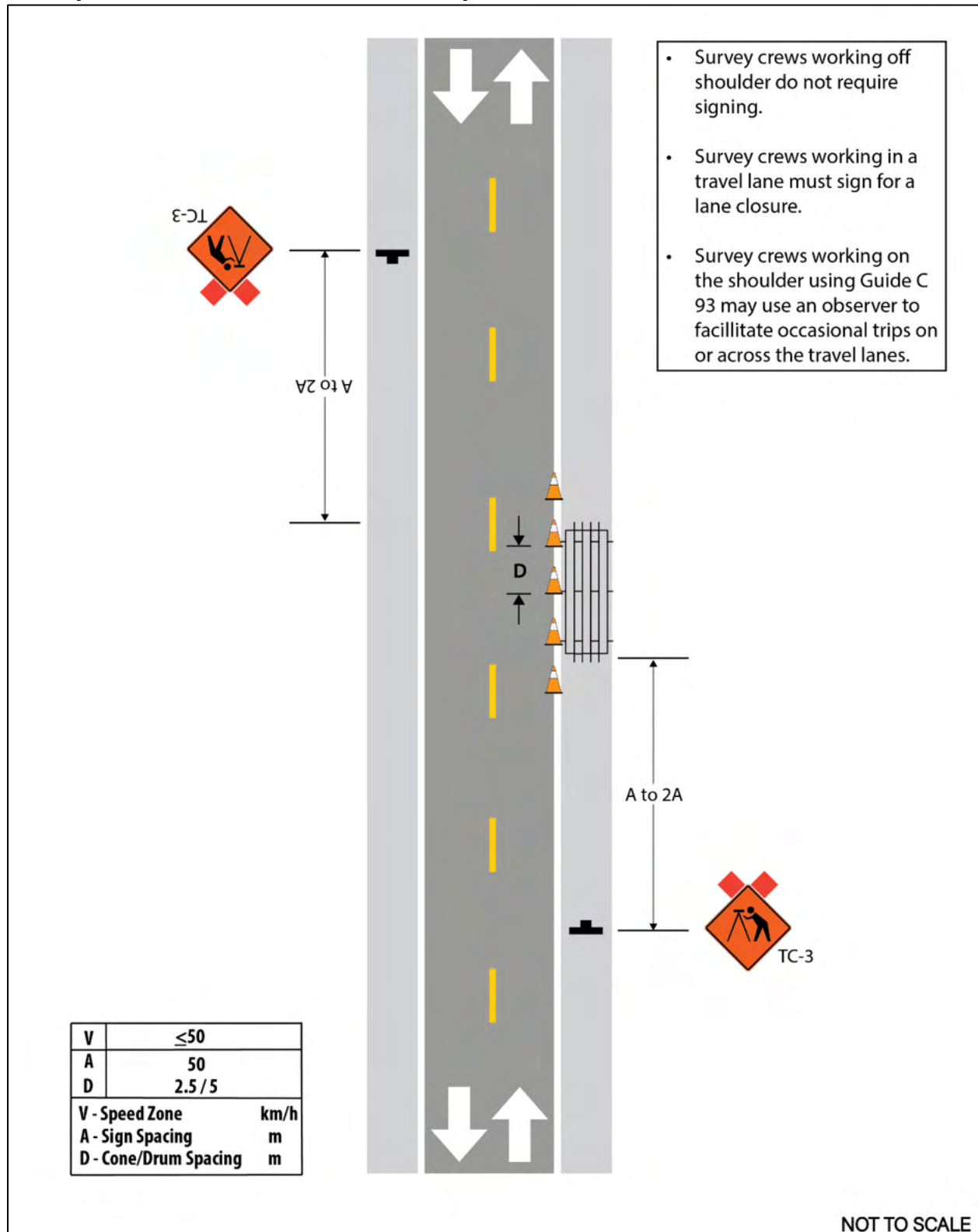
Temporary Haul Road: All Durations, Two-Way Two-Lane Urban Residential

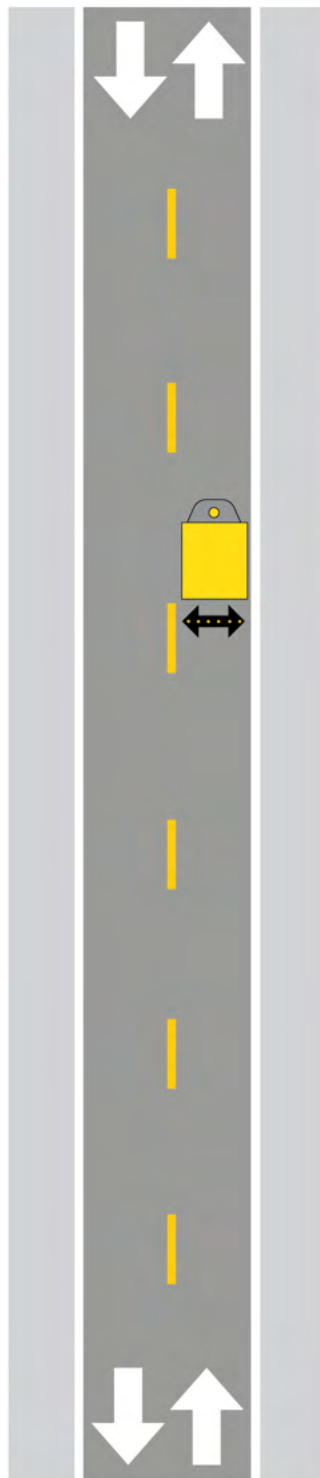
Guide C 76





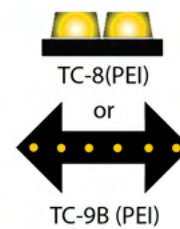






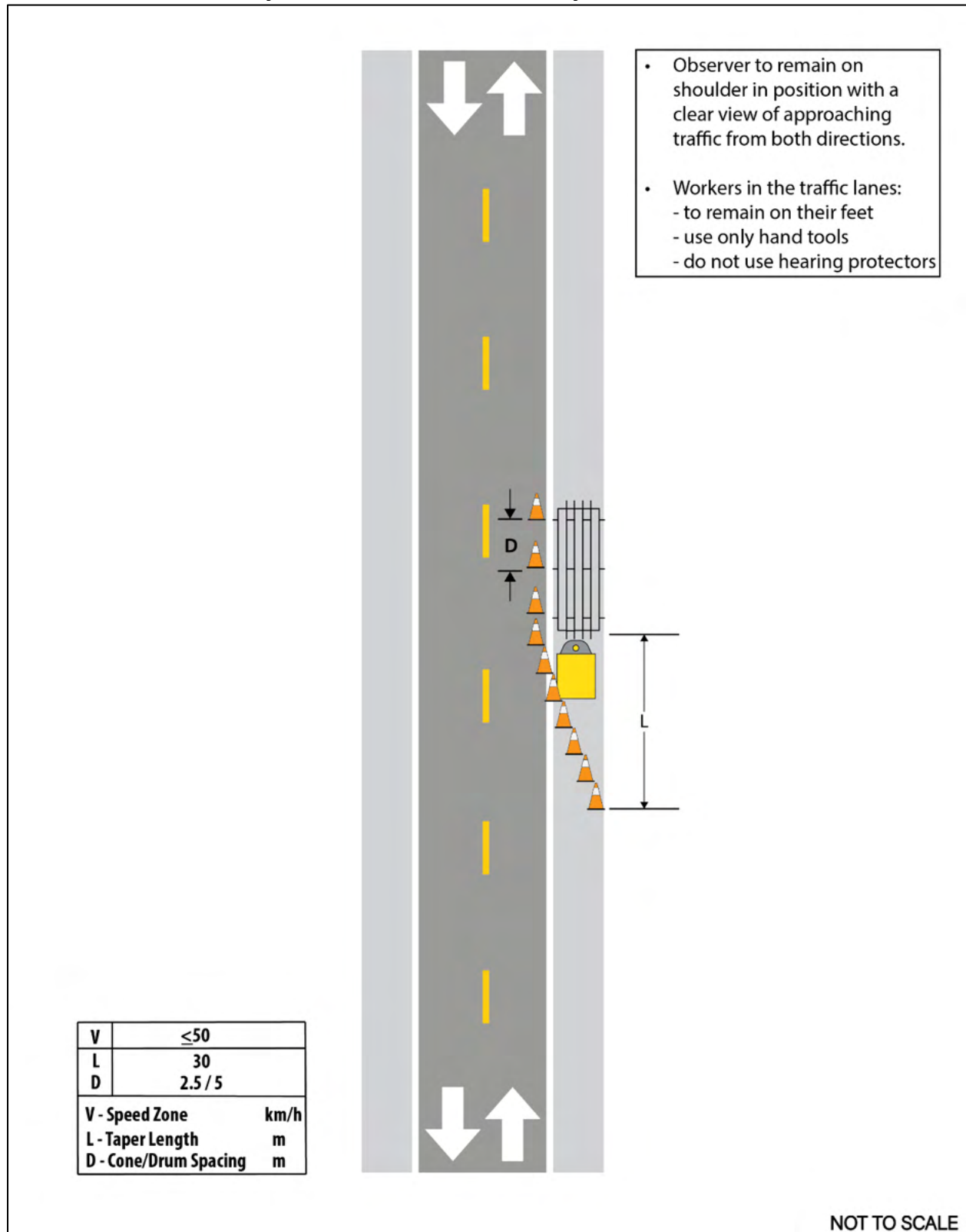
- Vehicles must not stop in travel lane.

Work Vehicle with



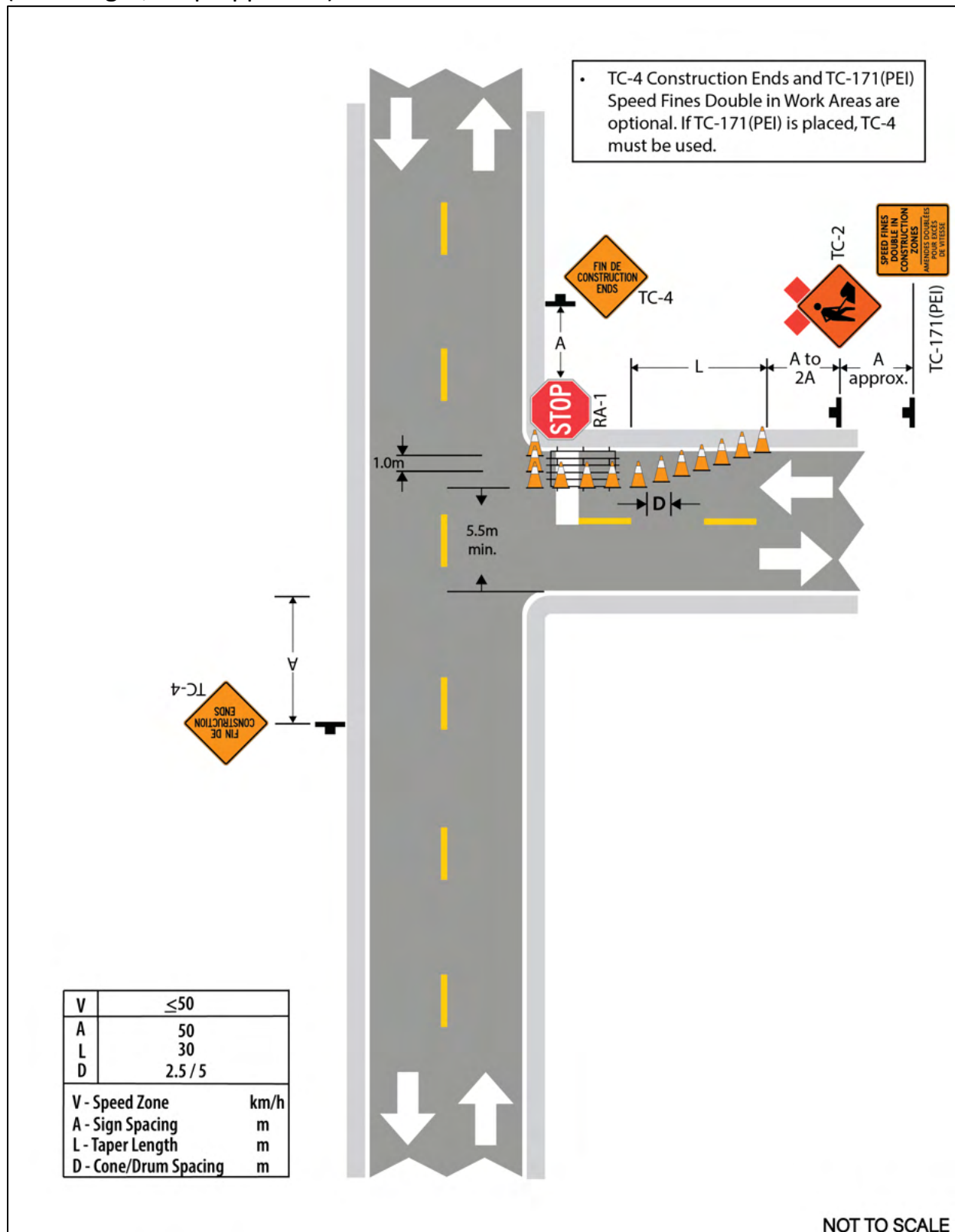
NOT TO SCALE





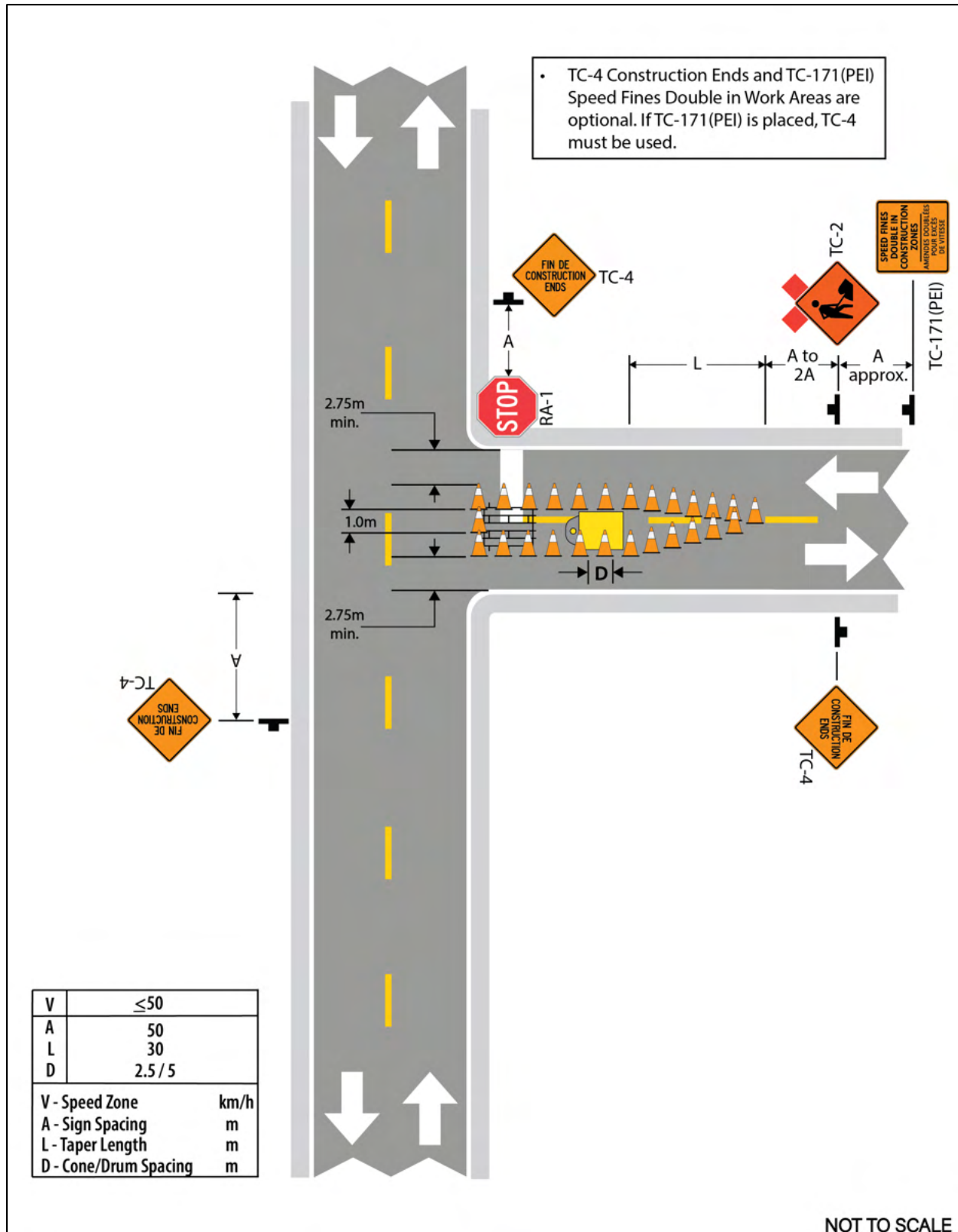
Partial Lane Closure: Short Duration, Intersection (Work Right, Stop Approach)

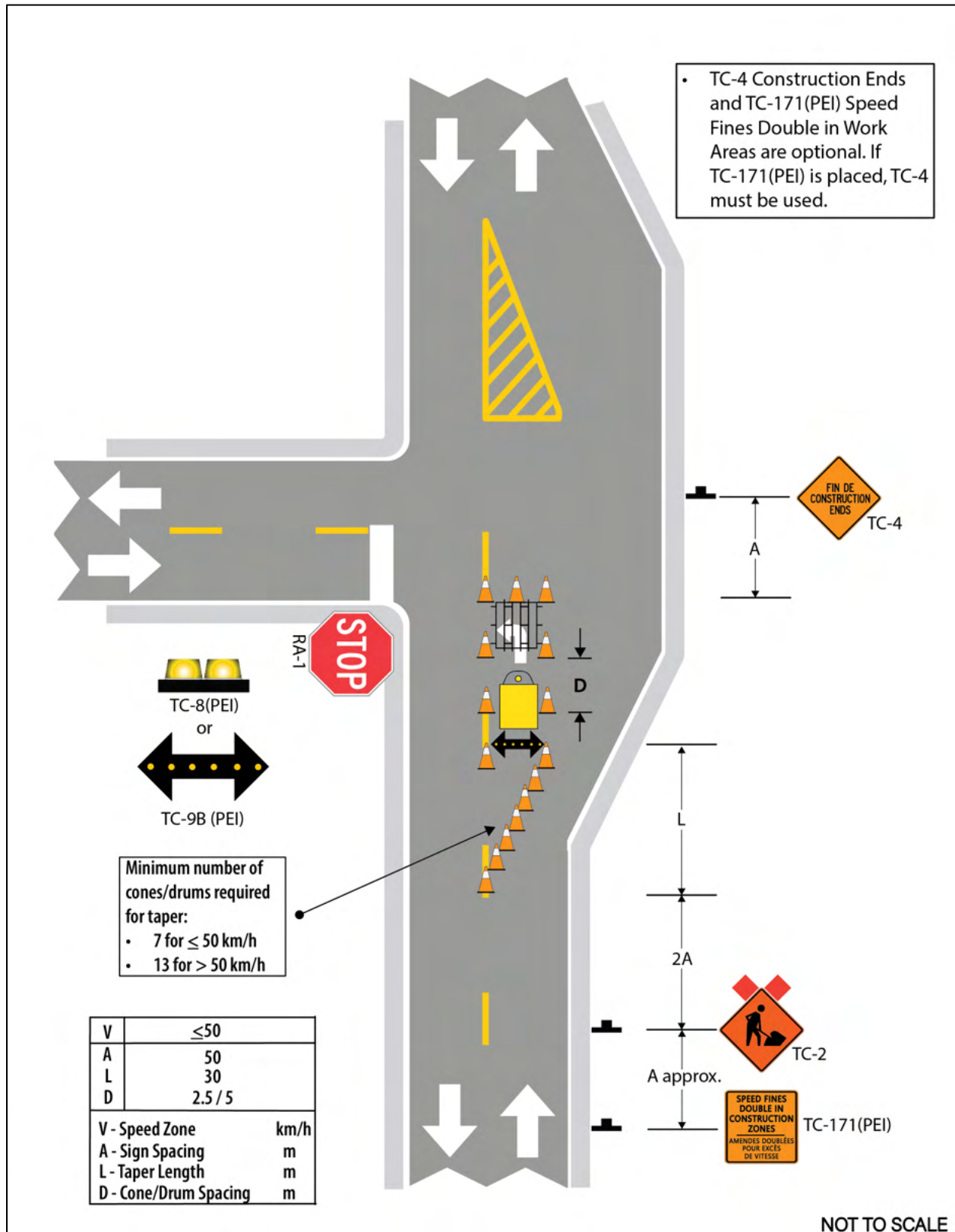
Guide C 101

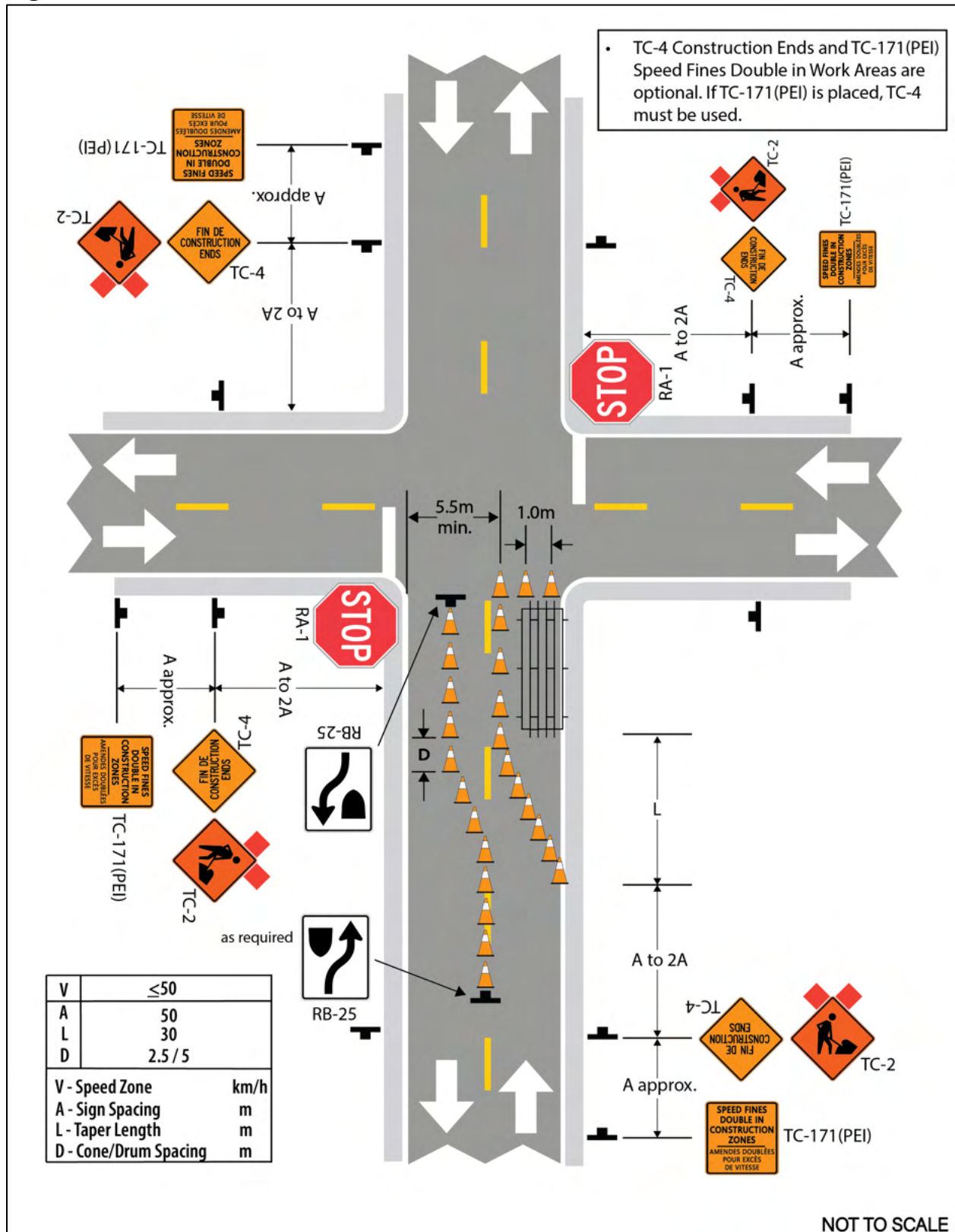


Partials Lane Closure: Short Duration, Intersection (Work Centre, Stop Approach)

Guide C 102

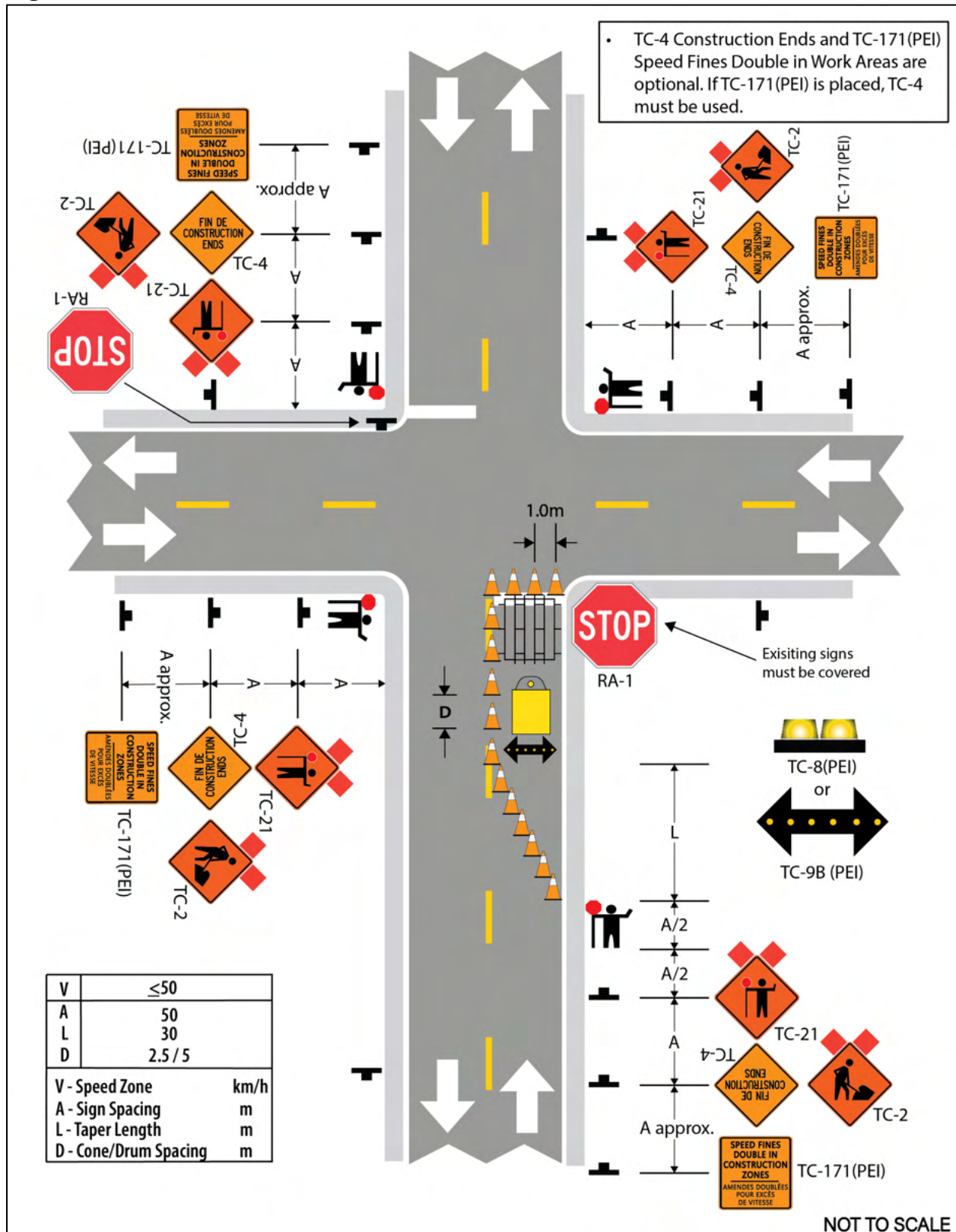






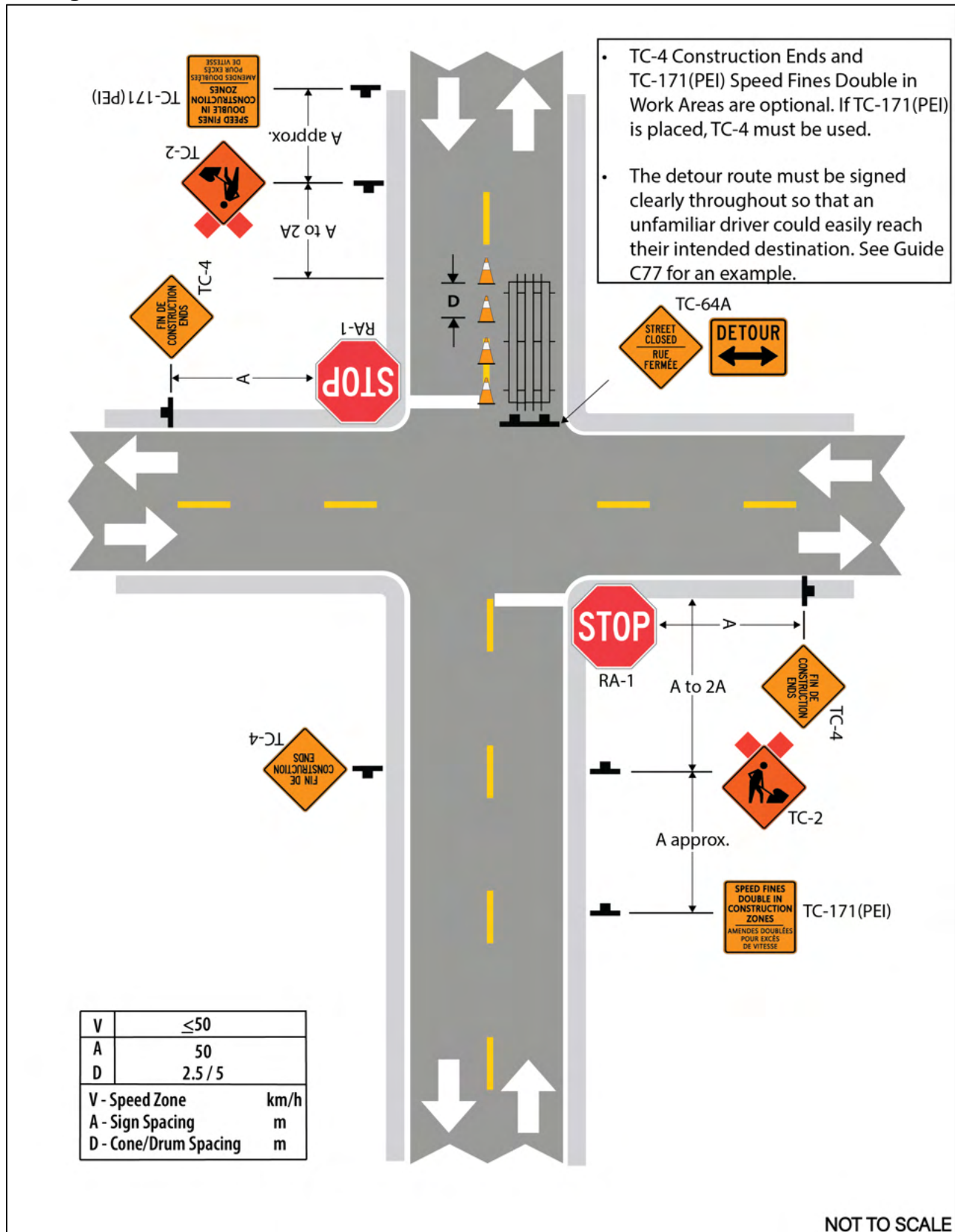
Right Lane Closed: Short Duration, Intersection

Guide C 112



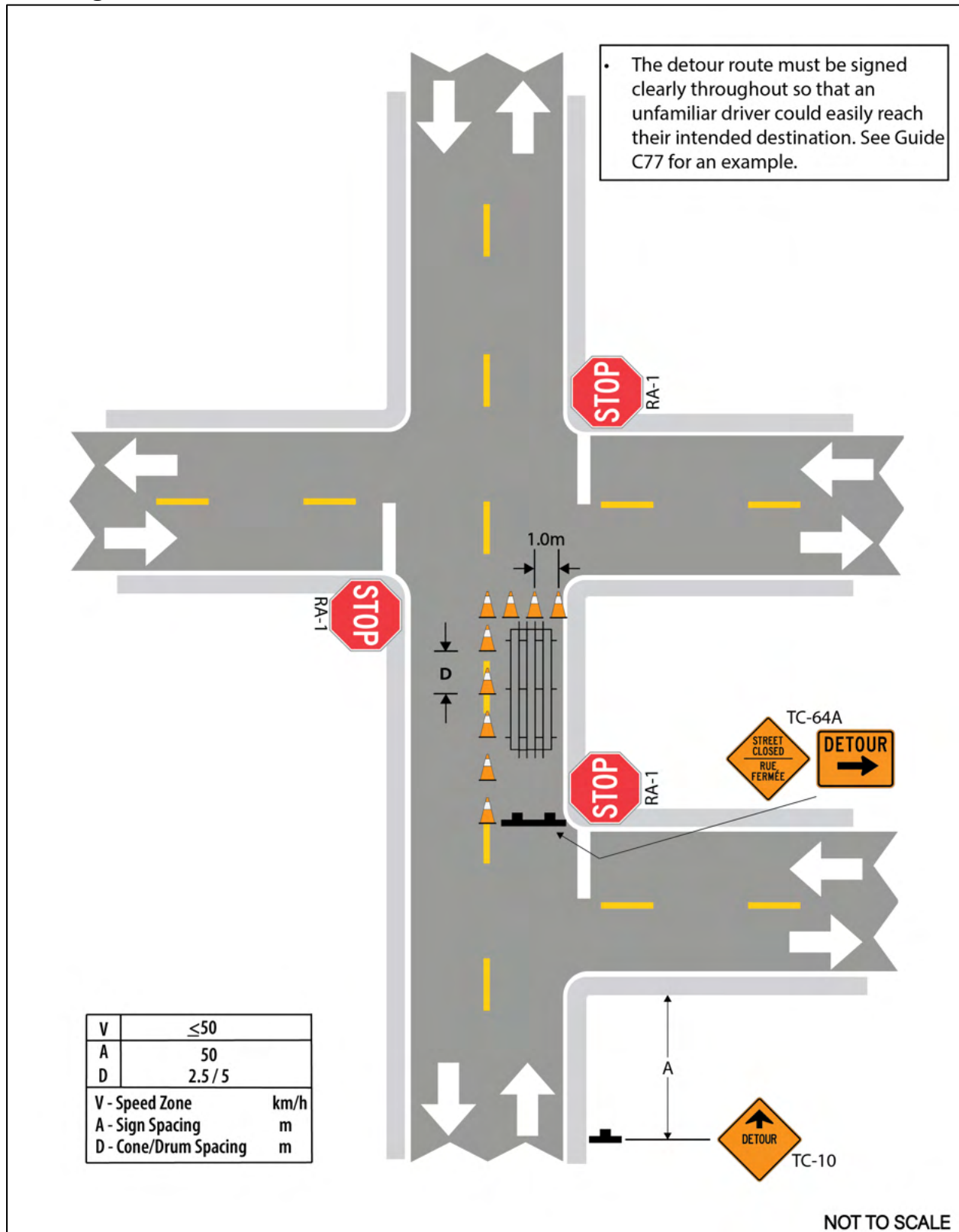
Far Right Lane Detour: Short Duration, Intersection

Guide C 114



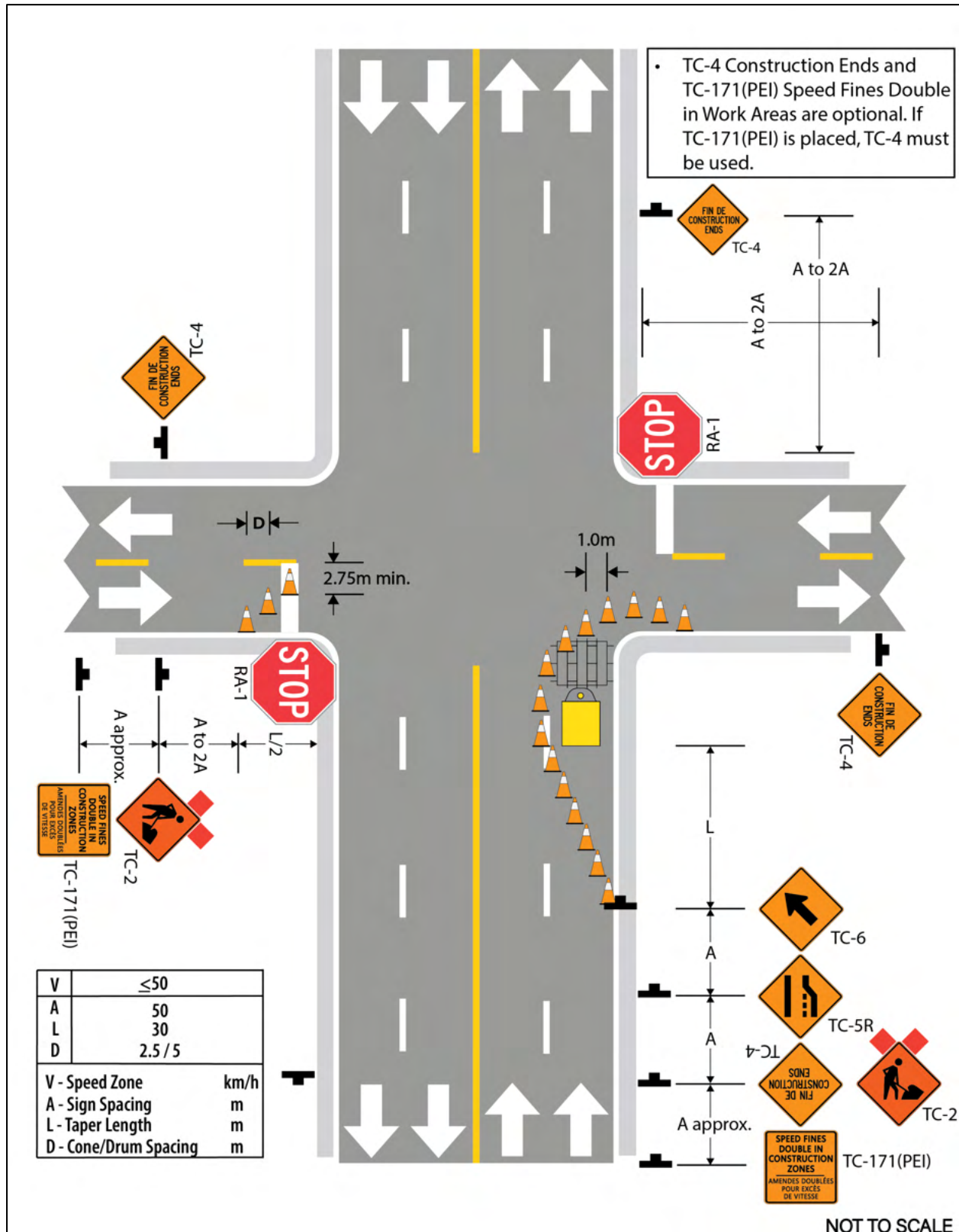
Guide C 115





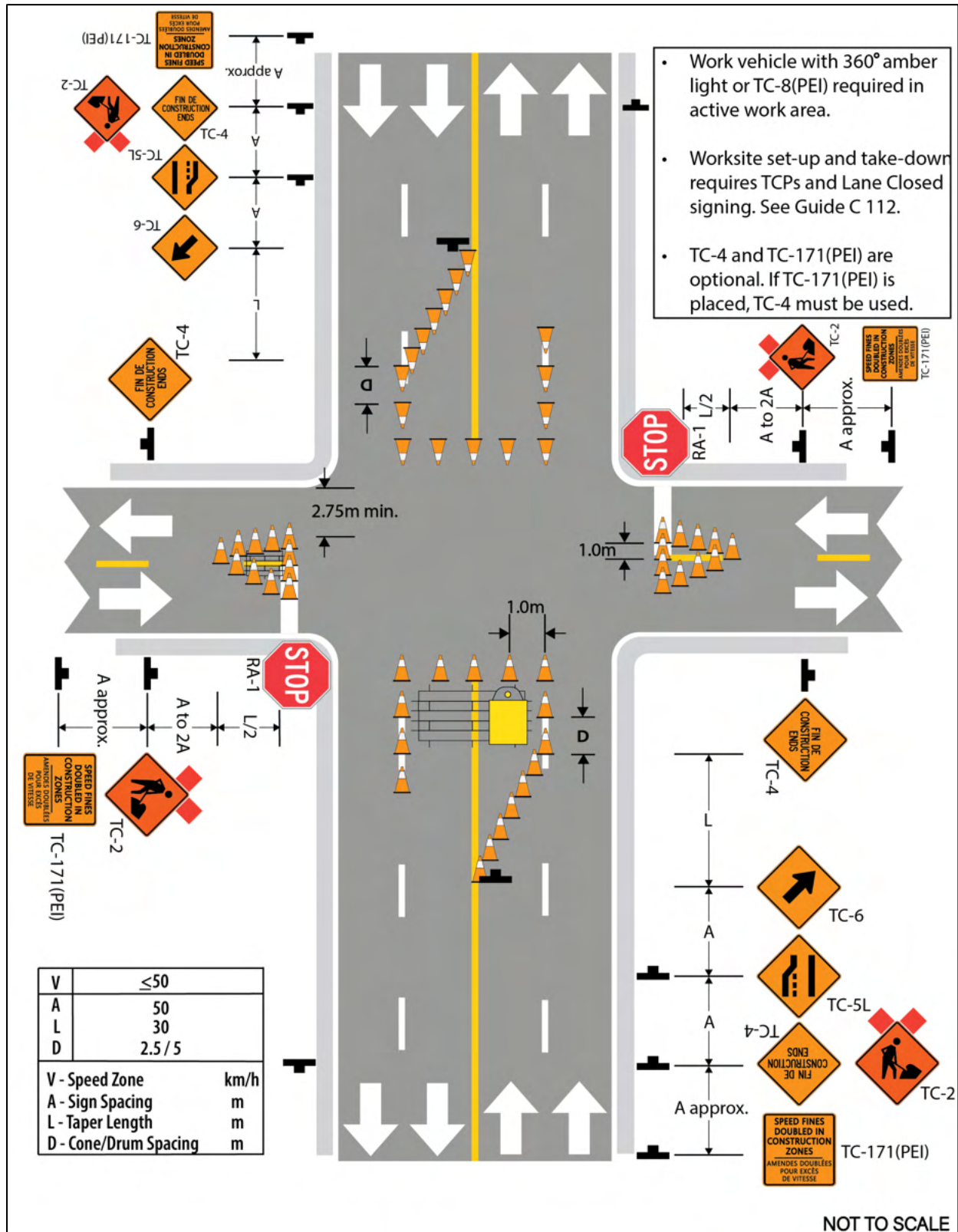
Right Lane Closed: Short Duration, Intersection (Multi-Lane Approach)

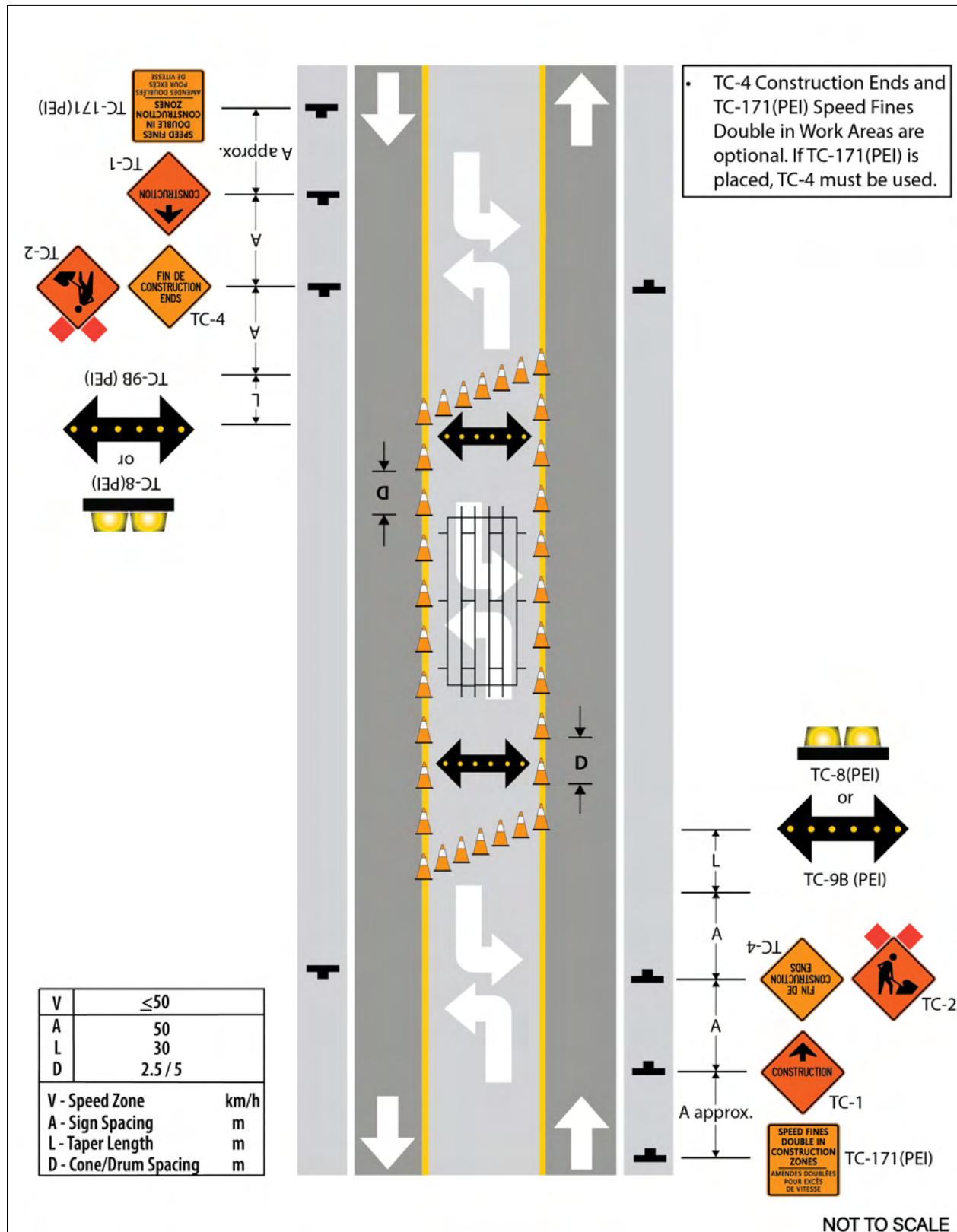
Guide C 121



Left Lane Closed: Short Duration, Intersection (Multi-Lane Approach)

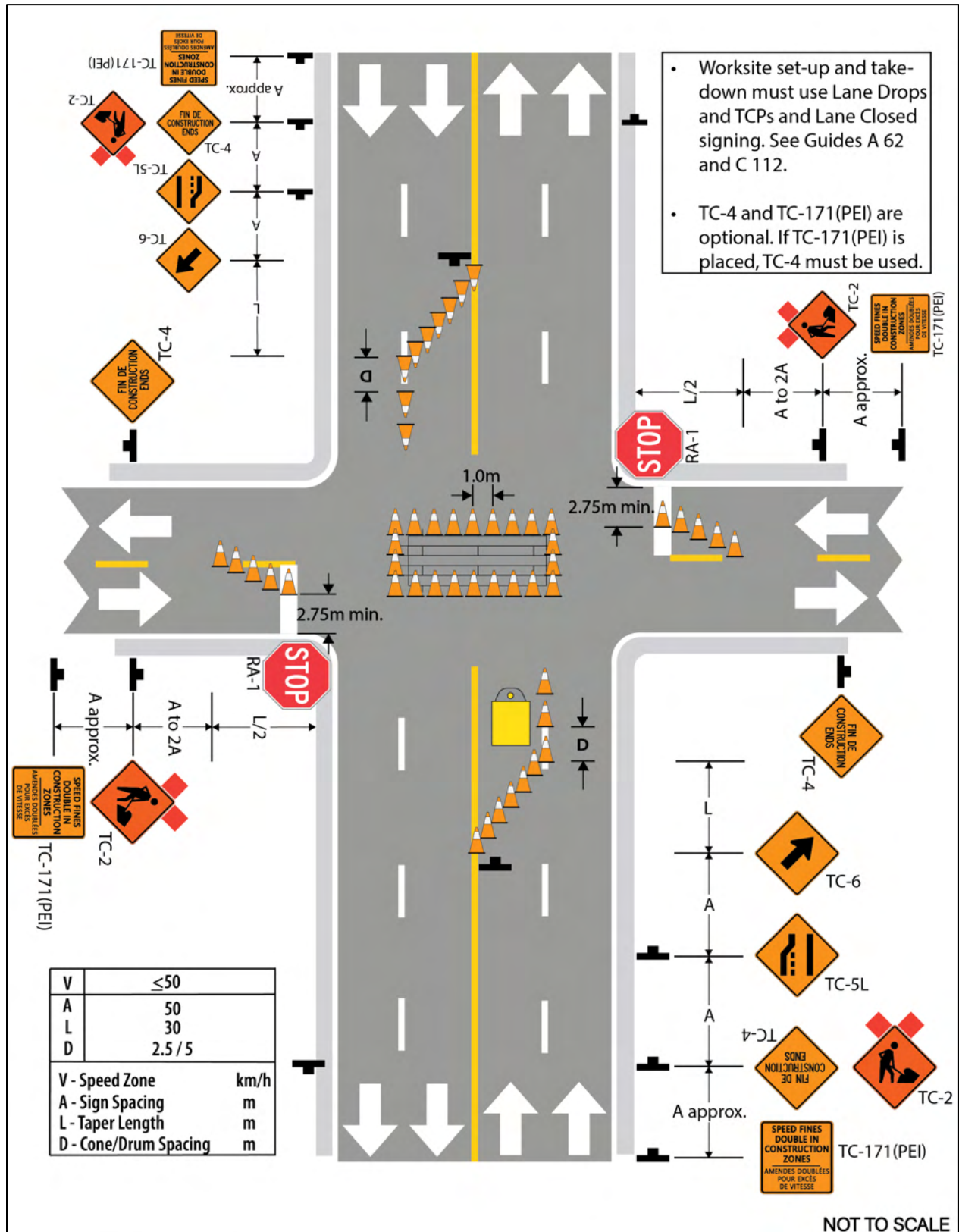
Guide C 122





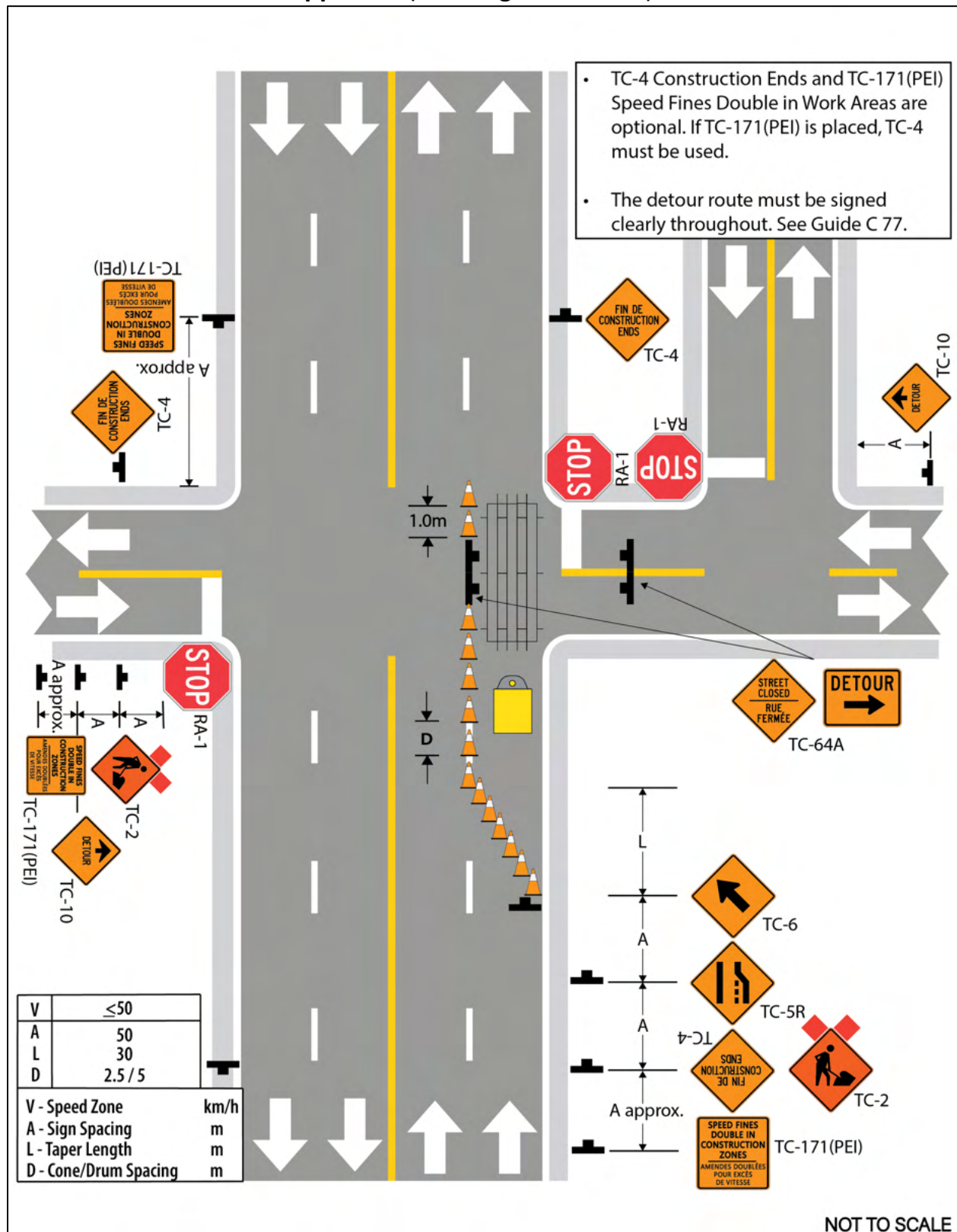
Within Intersection: Short Duration, Intersection (Multi-Lane Approach)

Guide C 135



Within Intersection: Short Duration, Intersection Multi-Lane Approach (Crossing Movement)

Guide C 139



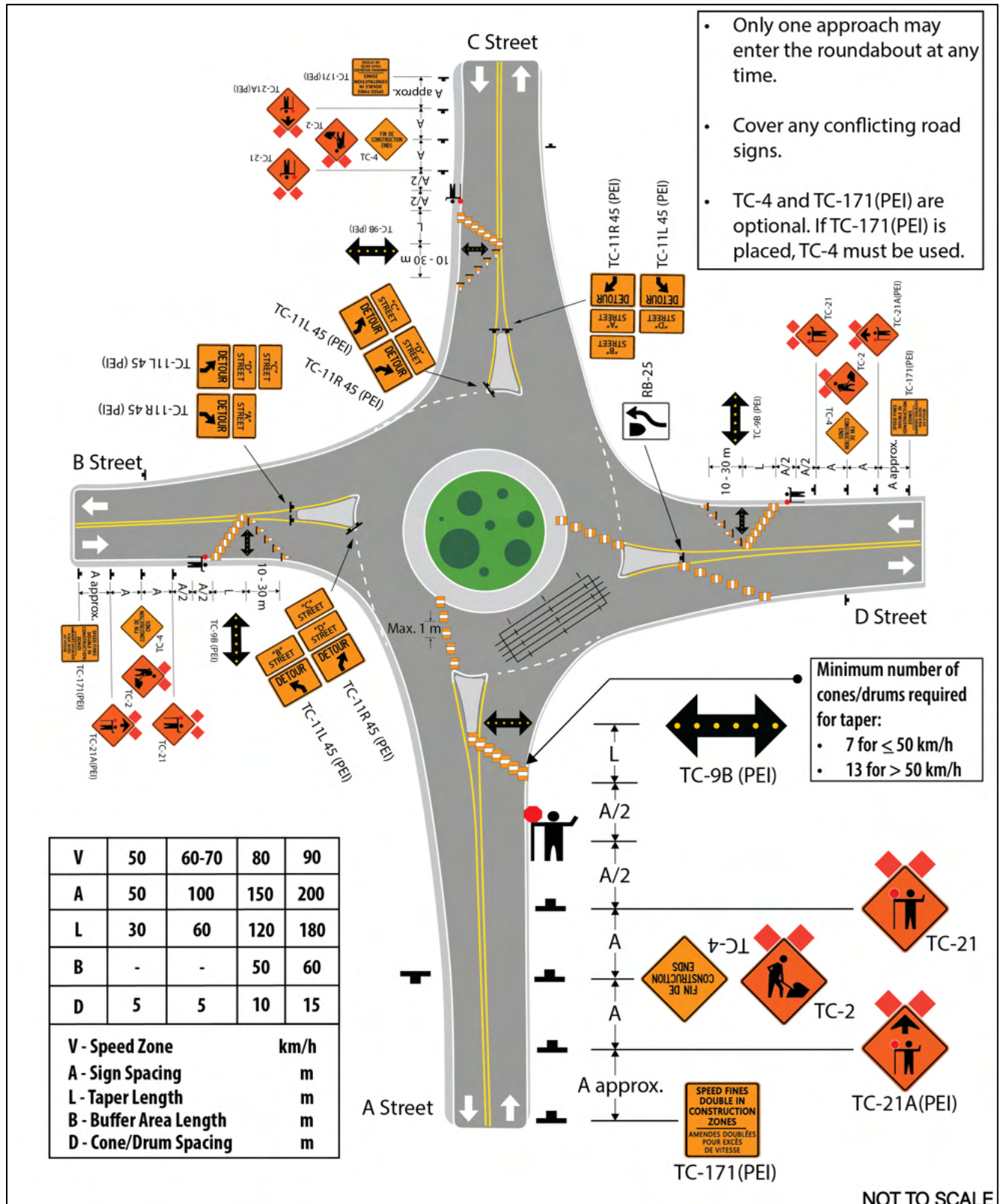
Application Guides ‘D’ Roundabouts

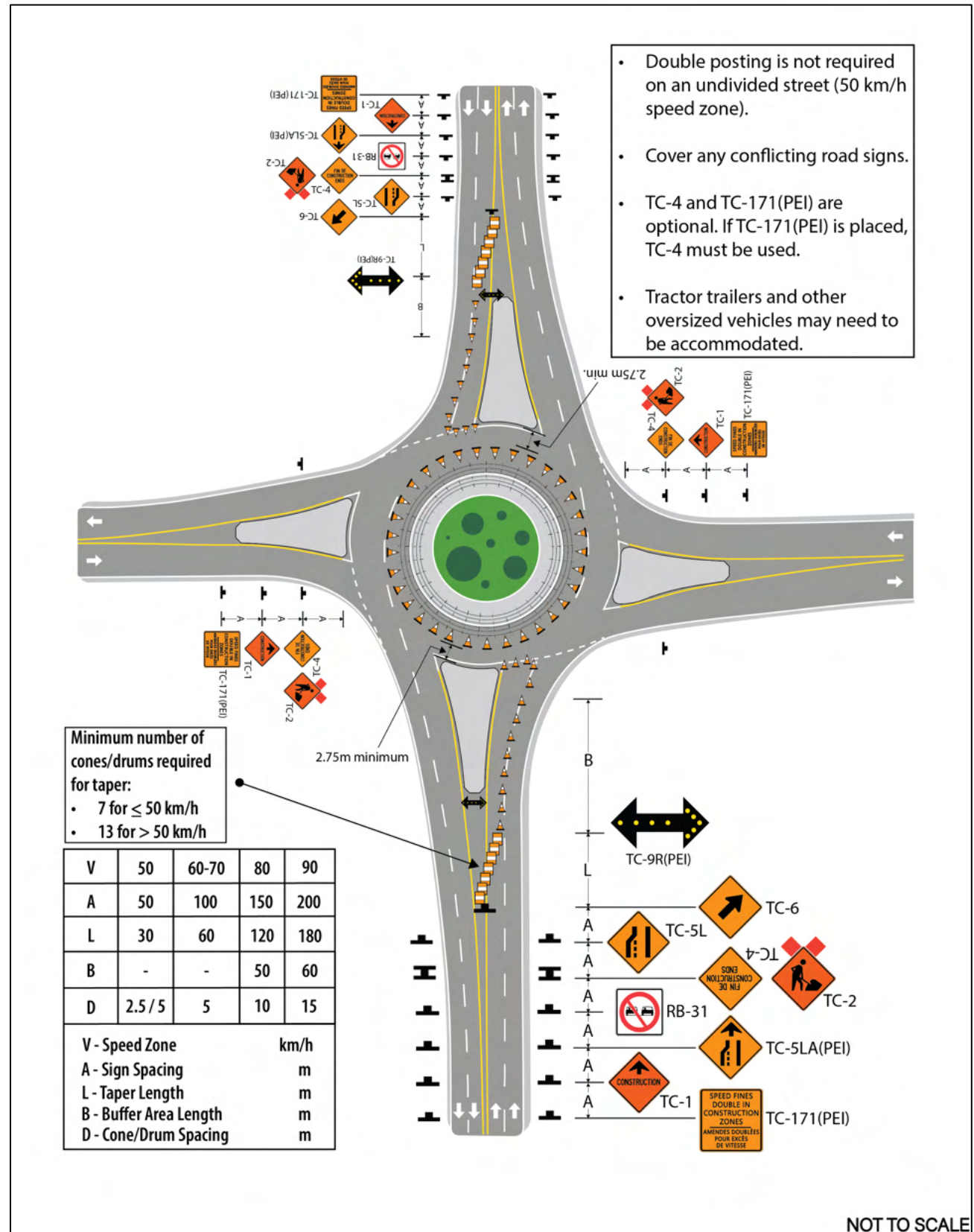
<u>Work Location</u>	<u>Work Duration</u>	<u>Highway Type</u> (Special Condition)	<u>Guide</u>
Quadrant Closed	Short Duration	Single-Lane (Reverse)	D 35
Inside Lane Closed	Short Duration	Multi-Lane	D 63
Outside Lane Closed	Short Duration	Multi-Lane	D 64
Outside Lane Closed	Short Duration	Multi-Lane (Island)	D 65

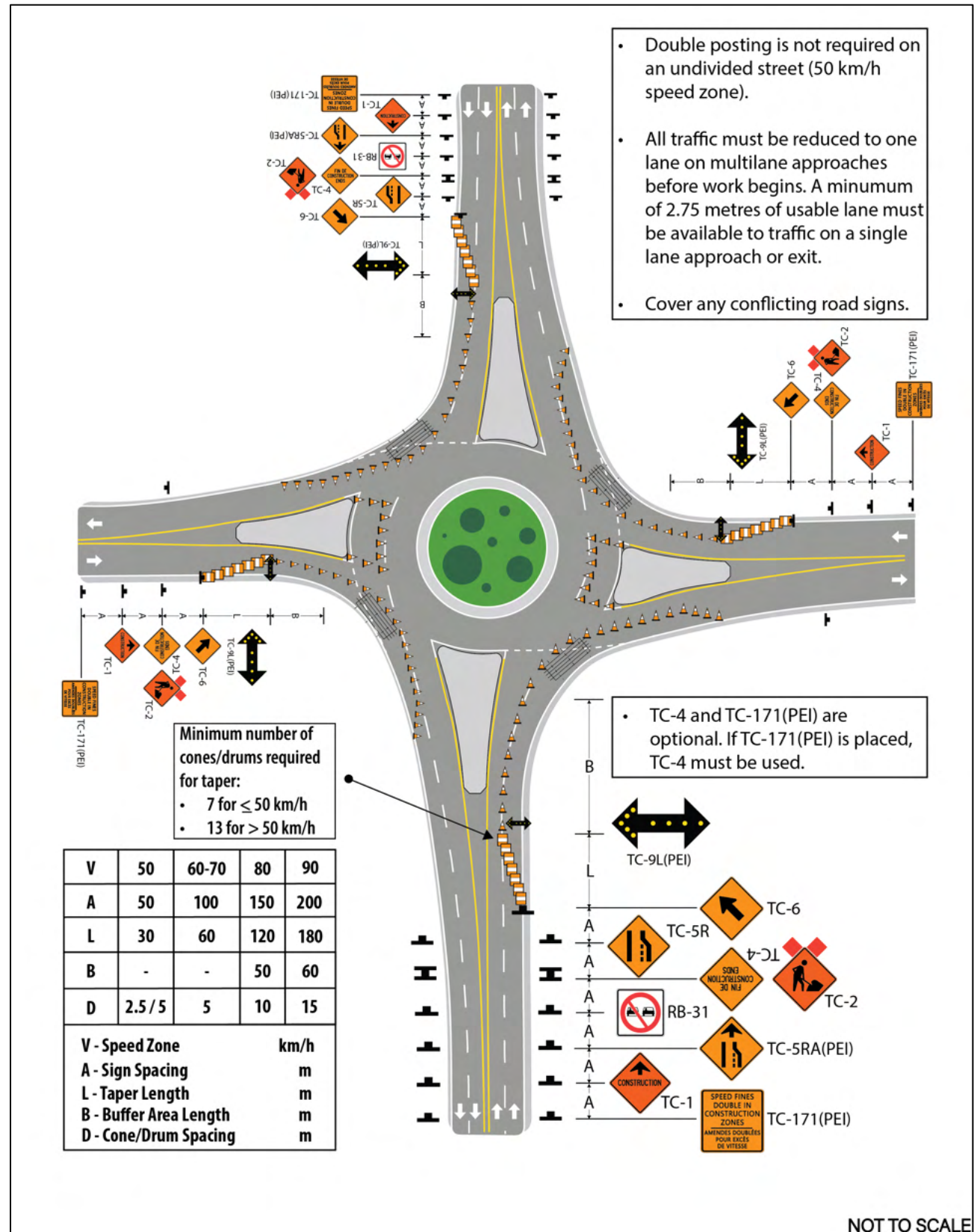


Quadrant Closed: Short Duration, Single Lane Closed (Reverse)

Guide D 35







Lane Closed: Short Duration, Multi-Lane Outside Lane Closed (Island)

Guide D 65

