



# **Street Works**



#### **KEY MESSAGES**

- Short duration static works must not exceed 60 minutes (including setting up and dismantling traffic management).
- Use a vehicle or vehicles to protect the workforce whenever possible.
- Plan all activities and ensure a trained and competent person does a risk assessment.
- Continually monitor the work location for changing conditions that may affect safety.
- · All personnel must have their NRSWA qualification cards available on site.

#### 1. Introduction

Every year, Thames Water and its partner organisations carry out thousands of minor short duration works activities on the public highway. Typical activities include sewer entry, valve operations, meter reading, sewer blockages, survey work (CCTV), leakage sounding, hydrant flushing, tankering and sampling – it's during these times that employees can be at their most vulnerable.



These standards provide guidance to assess the work to ensure you and other road users are safe.

# 2. Training



# 3. Responsibility for Establishing a Safe Working Area

#### There must always be a lead person on site who:

- Ensures work is carried out in accordance with the work plan and risk assessment.
- Briefs team members.
- Ensures the worksite is set up correctly before starting any activities.



#### 4. Short Duration Static Works

Short duration static work will involve a single vehicle or a small number of vehicles undertaking:

 One or more intermittent stops of up to 15 minutes for activities such as sewer tankering (pumping from or discharging to sewers), sewer jetting, valve operations, meter reading etc.,

# 15 min

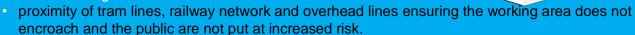
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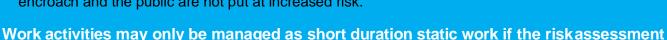
• One or more intermittent stops of between 15 and 60 minutes for activities such as leak detection, making safe / minor repairs to manhole and valve covers, sewer entry, etc.

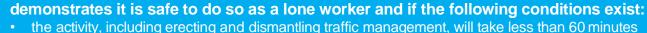
# 5. Planning and Risk Assessment

Perform a risk assessment before starting any task and take the following into account:

- road layout
- speed of traffic
- · works to be undertaken
- location
- duration
- restoration of the work site to the original state







- the road has a maximum speed limit of up to 40mph
- it's a single carriageway road
- visibility is clear and good on each approach for oncoming traffic of the work site (consider buildings, bends or narrowing in the road, brows of a hill and weather conditions)
- the work does not impede the public footway requiring pedestrians to seek an alternative route











If the work cannot be completed as a short duration task; DO NOT continue until you have assessed what other controls would be required to allow the task to be completed safely. This MUST involve at least a second person to support the work activity on site and may also require further guidance by a Unit 10 trained person.

Activities (that are not completed as a short duration task) must still comply with the Safety at Street Works and Road Works Code of Practice.

#### 6. Traffic Control

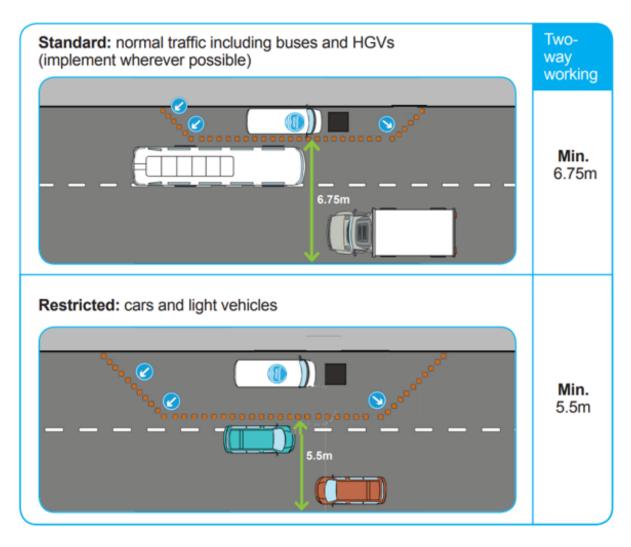
You can only carry out very short duration works without using static signs and cones if:

- Operatives are working wholly on the footway or verge, and
- · A site-specific risk assessment demonstrates minimal obstruction to traffic flow, and
- There's a low risk to operatives and road users.

The works vehicle must be parked legally and where traffic can pass safely, without any difficulty and not obstructing pedestrians walking by, where possible maintaining a width of 1m. However, local permitting arrangements may specify an alternative width (mainly 1.2m) as a minimum.

The working area **MUST** not be left unattended at **ANY TIME** to allow for the barriers to be removed if required.

An adequate unobstructed road width is required to allow two-way traffic to flow safely past the work site.





If the above cannot be provided, you can restrict the road width to 3.25m and use a 'single file traffic' supplement plate on the road narrow sign.



If restricted lane widths prevent the passage of larger vehicles, a suitable diversion route must be agreed in advance of the works with the highway authority and bus operator in line with permit advice. You must also consult a trained Unit 10 competent person who will discuss what form of 'Temporary Traffic Control' may be required with the relevant highway authority for the work to be carried out safely.

# 7. Basic Requirements for Vehicles

#### Basic requirements when performing short duration static works:

- Vehicle must be noticeably coloured i.e. chevrons and branding in line with statutory and TW requirements.
- Vehicle must have one or more roof mounted beacons operating at all times.

The following must then be in place before the works can start:

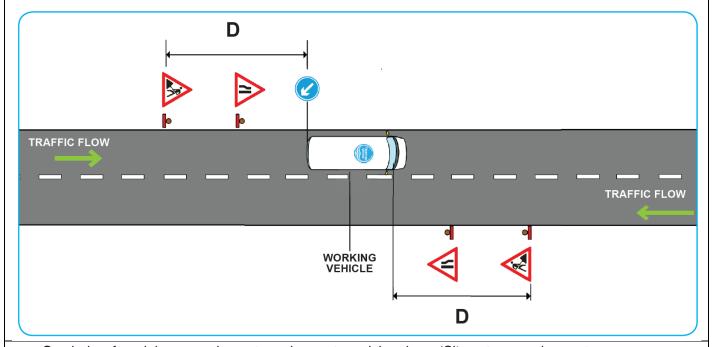
#### 7.1 Site set up requirements

IF ANY OF THE FOLLOWING BASIC REQUIREMENTS CANNOT BE MET, DO NOT UNDERTAKE THE WORKS.

#### Short duration stops less than 15mins on a single carriageway/road

You need a minimum signage of:

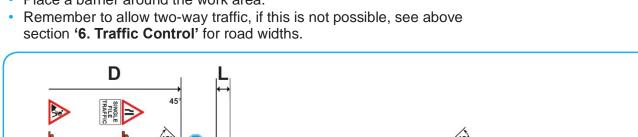
- Keep left/right sign next to the vehicle.
- 'Road Works Ahead' signs for drivers approaching the vehicle from both sides.
  - Ensure clear visibility of 60m when approaching the sign (see appendix 1).
  - If visibility is limited, e.g. due to a bend or brow of a hill, provide extra advance signs.
  - Place signs at the appropriate distance in advance of the works. (See Code of Practice NRSWA and appendix 1 part D).
- Display the correct side 'Road Narrows' sign for drivers approaching in each direction.

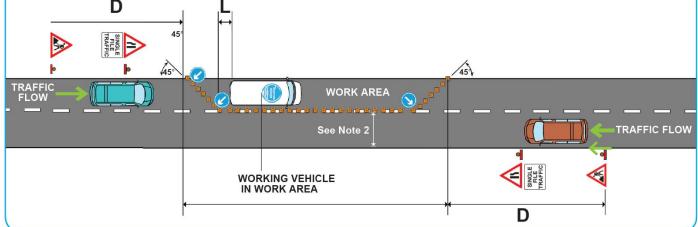


- See below for minimum equipment requirements and the above 'Site set up requirements.
- For dimensions D see Appendix 1

#### Short duration stops more than 15mins on a single carriageway/road

- Display advance signs as above.
- Display 'Keep left/right' arrow at the start of the lead-in taper.
- Place cones to form 45° lead-in and exit tapers of the works.
- Create a sideways safety zone of 0.5m.
- Place a barrier around the work area.





- For dimensions D and L see Appendix 1
- Note 2 See above section '6 Traffic control' for further details

#### Stops more than 60mins on a single carriageway/road

WARNING: This is not short duration work and additional controls are required in accordance with NRSWA i.e., standard signing, cones and guarding for a fixed site must be provided with the potential requirement for traffic lights for the safety of other road users and operatives. This will need to be assessed with a Unit 10 trained and competent person.

# 8. Minimum Equipment Requirements

The list below details the minimum amount of equipment that must be carried and used as appropriate to undertake short duration work safely:

- +12 traffic cones (450mm) fortagers, depending on working area size
- 3 'road works ahead' signs (750mm) with removable supplement arrows if required
- 2 'road narrows' (750mm) with removable single file
- 3 directional 'keep left/keep right' arrows (750mm)
- Folding pedestrian barriers

After completing an assessment using the Safety at Street Works and Road Works Code of Practice and additional signage is needed, it must be brought to the site before work can start.

#### 9. PPE

PPE must be worn before leaving the vehicle and in accordance with Thames Water's PPE standards. The minimum standards will include:



Hard hat



High visibility jacket (Class 3, two bar, long



Steel capped safety boots



Gloves appropriate for the task



Eve protection



High visibility trousers (Class 3)

All equipment must be maintained and in good condition.

# 10. Using a Vehicle to Protect the Workforce

Use vehicles wherever possible during short duration works. If you cannot use a vehicle because of the location (e.g. if it will obstruct a bus route/stop, etc.), then assess and apply additional control measures such as signs, cones and guards.

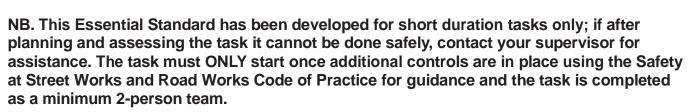
When using a vehicle or vehicles, you must:

- Turn on the roof-mounted amber beacons (remain on at all times).
- Park the vehicle in a safe position between the traffic in that lane and the work area.
- Do not park facing against the traffic flow.
- Ensure there is a clear distance between your vehicle and the work area of:
  - 2m on roads with a speed limit
  - of 30mph
  - 5m on roads where the speed limit
  - is 40mph
- Ensure the work vehicle is noticeable with clean and unobstructed high-visibility chevron markings.
- Have access to materials and equipment using the rear doors of the vehicle (unless the side doors open onto the footpath).
- Keep the rear doors closed when not in use to maximise chevron visibility on the back of the vehicle.

# 11. Monitoring

- The lead person/operator and team must continually monitor the site for changing conditions throughout the duration of the work.
- Significant changes will require the work to be suspended and the risk assessment reviewed before continuing.
- If additional safety controls are required, work must not recommence until they are installed.
- Unit 10 trained manager or supervisor must regularly inspect, and record, street works activities.
- Use of the *PJ Keary's app* for street works compliance is recommended.





# **Appendix 1**

### **Setting out site**

(Distances in metres unless stated otherwise, numbers are minimum numbers)

|  | Minimum<br>visibility<br>distance<br>to first<br>sign | D Distance from first sign to start of lead-in taper |                | Lead-in taper                                 |    |    |     |     |     | S<br>Minimum<br>width of<br>sideways<br>safety | Distance<br>from last<br>cone to<br>End of | Minimum<br>size of |               |
|--|---|--|----------------|---|----|----|-----|-----|-----|--|--|--------------------|---------------|
|  |   |  |                | Width of works including sideways safety zone |    |    |     |     |     |  |  |                    |               |
| Type of road   |   |  |                | 1m  | 2m | 3m | 4m  | 5m  | 6m  | 7m   | zone                                       | works<br>sign      | signs<br>(mm) |
| Single<br>carriageway -<br>speed limit 30<br>mph or less           | 60  | 20 to 45   | T Taper length | 13  | 26 | 39 | 52  | 65  | 78  | 91   | 0.5  | 10 to 30           | 600           |
|  |   |  | No of cones    | 4   | 4  | 6  | 7   | 9   | 10  | 12   |  |                    |               |
|  |   |  | No of lamps    | 3   | 3  | 5  | 6   | 8   | 9   | 11   |  |                    |               |
| Single<br>carriageway -<br>speed limit 40<br>mph                   | 60  | 45 to 110  | T Taper length | 20  | 40 | 60 | 80  | 100 | 120 | 140  | 0.5  | 30 to 45           | 750           |
|  |   |  | No of cones    | 4   | 6  | 8  | 10  | 13  | 15  | 17   |  |                    |               |
|  |   |  | No of lamps    | 3   | 5  | 7  | 9   | 12  | 14  | 16   |  |                    |               |
| Single<br>carriageway -<br>speed limit 50<br>mph or more           | 75  | 275 to<br>450  | T Taper length | 25  | 50 | 75 | 100 | 125 | 150 | 175  | 1.2  | 30 to 45           | 750           |
|  |   |  | No of cones    | 4   | 7  | 10 | 13  | 15  | 18  | 21   |  |                    |               |
|  |   |  | No of lamps    | 3   | 6  | 9  | 12  | 14  | 17  | 20   |  |                    |               |
| All-purpose dual<br>carriageway -<br>speed limit 40<br>mph or less | 60  | 110 to 275   | T Taper length | 25  | 50 | 75 | 100 | 125 | 150 | 175  | 0.5  | 30 to 45           | 750           |
|  |   |  | No of cones    | 4   | 7  | 10 | 13  | 15  | 18  | 21   |  |                    |               |
|  |   |  | No of lamps    | 3   | 6  | 9  | 12  | 14  | 17  | 20   |  |                    |               |

| Speed limit mph      |     | 30  | 40 | 50 | 60 |
|----------------------|-----|-----|----|----|----|
| L Longways clearance | 0.5 | 0.5 | 15 | 30 | 60 |

| Speed limit mph             | 30 or less | 40 or more |  |  |
|-----------------------------|------------|------------|--|--|
| C Clearance to work vehicle | 2          | 5          |  |  |

#### **Notes**

- 1. The minimum height of cones is 450 mm for roads covered by this code.
- 2. The maximum spacing between cones in longitudinal lengths shall be q metres, but no fewer than two cones shall be used in any length between tapers.
- 3. Lead-in tapers where two-way traffic control; is used, and all exit tapers shall be at about 45° to the kerb line with cones spaced 1.2 metres apart.
- 4. In certain circumstances on congested roads with speed limits of 30 mph or less, the lead-in taper may be reduced to 45° (see page 19 of the red book).
- 5. The longways clearance (L) is the distance between the end of the lead-in taper and the first traffic barrier placed across the lane.