A factsheet to assist developers prepare their submission

Strategic design requirements for DAs

Context

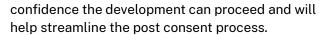
Development applications (DAs) will often include or require road infrastructure upgrades to enable people to access the development safely and/or mitigate the impacts of the development on the surrounding road network. For instance:

- a rural property access treatment, a widened shoulder, or a raised central median;
- a pedestrian refuge, a bus lane or bus bay, new or relocated kerb and channel;
- an intersection upgrade such as turning lanes, a roundabout or traffic signals; and/or
- additional through lanes, a realignment, a new overpass or an interchange.

TfNSW approvals are required under the Roads Act, 1993 for works on State roads and traffic signals on any road. While these approvals are generally provided post development consent, TfNSW requires developers to provide a strategic design for the road infrastructure upgrades as part of their DA submission to:

- · clarify the scope of works; and
- demonstrate a compliant design (in accordance with Austroads guides and TfNSW supplements) can be constructed within the road reserve or adjoining land available; and
- allow the consent authority to consider the environmental impacts of the upgrade works as part of their determination under Part 4 of the Environmental Planning and Assessment Act, 1979.

In doing so, the strategic design provides TfNSW, the Consent Authority and the Developer with



Proposed departures from TfNSW Standards and/or design requirements may require a concession, which must be obtained prior to lodgement of any DA, for details of the concession process and how to apply see the TfNSW Standards Portal.

When does TfNSW require a strategic design?

TfNSW requires a strategic design for road infrastructure upgrades on State roads and/or traffic signals (new or modifications to existing) on any road.

It is important to note that in most cases the strategic design should be prepared AFTER the traffic analysis has been undertaken. While TfNSW recognises it can be beneficial to prepare a strategic design early in the process to gain some understanding of what can be achieved, proceeding directly to strategic design may ultimately lead to significant redesign work being required.

How much detail does TfNSW require?

The level of detail required will depend on the scope of the upgrades and the road environment. The key factors to determining the detail required include the width of the road reserve, the topography and the extent of widening/scope of works. Generally, TfNSW will require either:

- 1. a 2-dimensional plan overlaid on aerial photography; or
- 2. a 3-dimensional plan overlaid on ground survey, lidar or the like.

The scenarios and requirements for each of these options are detailed on the next page.



For further information see our website at: transport.nsw.gov.au

2-dimensional plan overlaid on aerial photography

This will suffice in less constrained environments where it can be easily demonstrated a compliant design can fit within the road reserve. The design needs to include the following:

- PDF format and, if available, CAD file in DGN or DWG format
- North point
- Road names
- · Proposed edge of pavement
- New pavement shown as shaded
- Proposed line and pavement markings
- Proposed medians including type (raised or painted)
- Proposed footpaths and/or cycle ways
- Proposed safety barriers
- Property boundaries (from mapping program)
- Sight distance checks
- Proposed regulatory signage (e.g. parking restrictions, speed zone changes)
- Vegetation-tree trunks and foliage, including proposed trees removal to enable works
- Hazard free zone (clear zone)
- Dimension all proposed design elements (incl. line marking)
- Typical section/s
- Turning paths of design vehicle at 15km/h

3-dimensional plan overlaid on ground survey

This will be required in more complex environments, where there are topographical constraints and/or the extent of widening or scope of works is significant and/or upgrades have the potential to impact on existing property boundaries. The design needs to include all listed requirements for the 2D design and the following additional details:

- Proposed batters
- Cross Sections
- Long Sections

Significant or specific road infrastructure upgrades

The requirements listed in this document are the baseline requirements for the majority of DA related road infrastructure upgrades. For significant or specific road infrastructure upgrades additional information may be required to clarify the scope of works, demonstrate a compliant design can be constructed and enable the consent authority to consider the environmental impacts. For instance, this additional information may be related to drainage, utilities, road safety audits and design reports.

What if I am not sure and/or want pre-DA advice?

TfNSW encourages developers to engage with us before lodging their development application by contacting our teams (refer to emails below).

As highlighted earlier, the process for determining appropriate road infrastructure upgrades should generally be:

- Traffic analysis and, where appropriate, traffic modelling to consider the impacts and identify appropriate treatment/s in terms of network performance.
- Strategic design to clarify the scope of those upgrades, demonstrate a compliant design can be constructed with the road reserve (or land available) and allow the consent authority to consider the environmental impacts.

Given the above, it will generally be important to identify and agree on the appropriate treatment before TfNSW can provide advice on whether 2-D or 3-D will be required for the strategic design. In some instances, a hybrid model may be acceptable. That is a 2-D design with some 3-D elements. Where appropriate, TfNSW will be happy to set up meetings to discuss your development and associated road infrastructure upgrades.



Factsheet

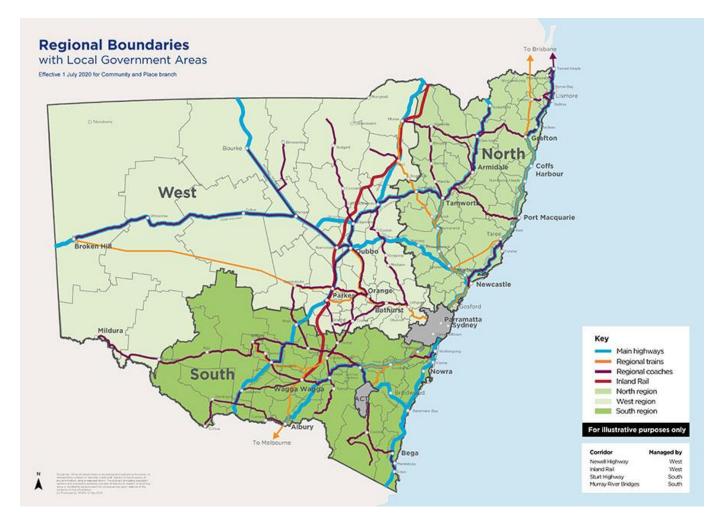
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Document Control

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Document owner	Manager Policy & Governance, Development Services
Approved by	Director Development Services
Document number	August 2024 - Version 2
Branch	Development Services, Community & Place
Division	Regional and Outer Metropolitan
Review date	02/08/2024
Superseded documents	February 2022 - Version 1

Versions

Version	Amendment notes
2.0	Minor amendments to Version to clarify requirements for Applicant's to obtain concessions to TfNSW standards process prior to lodgement of DAs.

