# **Geometric Design Index**

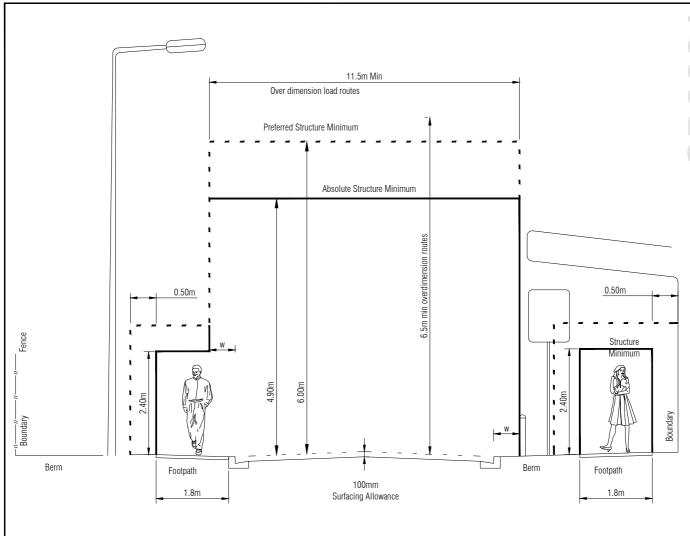
SED_NO	SED_Version	Title	Last Published	Comments
GD0000	В	Geometric Design index	14/02/2020 as working draft	Minor changes
GD0001	В	Clearance envelope for structures	14/02/2020 as working draft	Minor changes
GD0002	В	Clearance envelope for vegetation	14/02/2020 as working draft	Minor changes
GD0003	В	Clearance envelope for OD routes	14/02/2020 as working draft	Major Changes
GD0004	A	Compound corner templates	14/02/2020 as working draft	No changes
GD0005	A	Turning heads	14/02/2020 as working draft	No changes
GD0006	А	Interim turning head	14/02/2020 as working draft	No changes
GD0007	A	Typical Cul-de-sac NSAAT marking layout	New Drawing	-



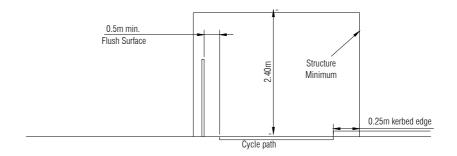


Geometric Design index

09/07/2025



Preferred Structure Minimum



#### NOTES

- 1. For safety of vehicles, pedestrians and cyclists
- $2.\ w = 0.5 m \ generally. \ Use the AT camber clearance design tool for specific cases where vehicles turn or pull in to stop especially double-decker buses$





### **TDM TECHNICAL STANDARDS**

Clearance envelope for structures

15/11/2024

GD0001

B





Clearance envelope for vegetation

15/11/2024

GD0002

B



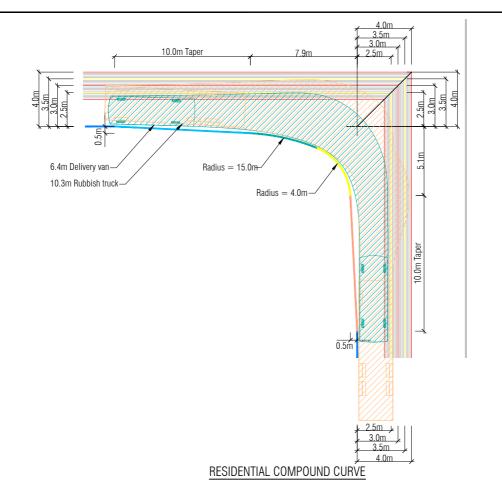


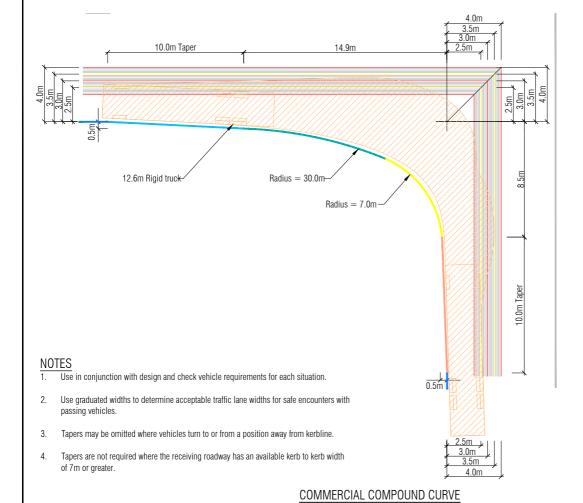
Clearance envelope for OD routes

15/11/2024

GD0003

B



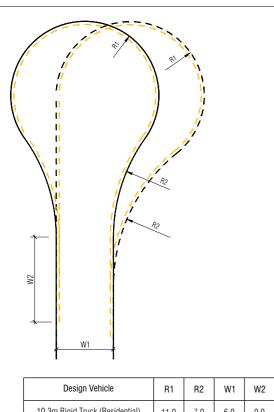






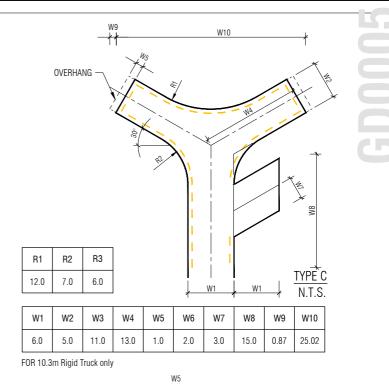
Compound corner templates

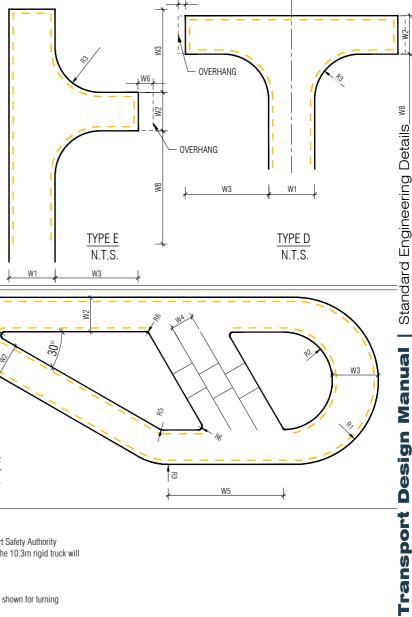
15/11/2024

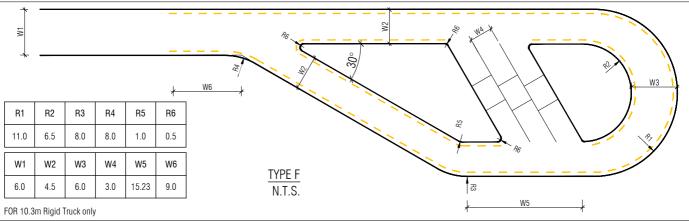


Design Vehicle	R1	R2	W1	W2
10.3m Rigid Truck (Residential)	11.0	7.0	6.0	9.0
12.6m Rigid Truck (Commercial)	13.0	15.0	10.0	15.0
Semi-Trailer (Industrial)	13.0	30.0	10.0	15.0

TYPE A (SYMMETRICAL) & TYPE B







### NOTES:

- Variations to the above layouts may be permitted providing designs meet Land Transport Safety Authority  $tracking\ curves\ for:\ 10.3m\ rigid\ truck,\ 12.6m\ rigid\ truck,\ semi-trailer\ as\ appropriate.\ The\ 10.3m\ rigid\ truck\ will$ generally be acceptable for  $\,W\!<\,8m.$
- Design drawings must clearly indicate the tracking path of the design vehicle. The Layout must satisfy the relevant tracking curve.
- No Stopping At Any Time road-markings must be provided at all turning heads to extent shown for turning movement but not across driveways or parking bays

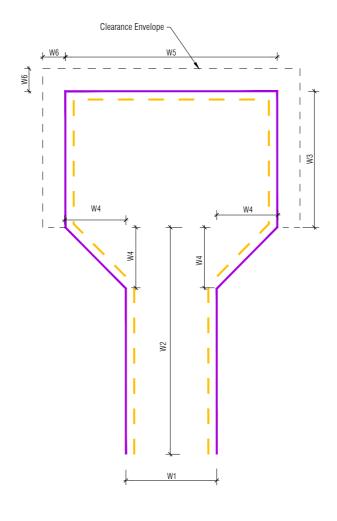




### **TDM TECHNICAL STANDARDS**

Turning heads

15/11/2024



Minimum dimensions								
W1	W2	W3	W4	W5	W6			
6.0	15.0	9.0	4.0	14.0	1.5			

For 10.3m Rigid Truck only

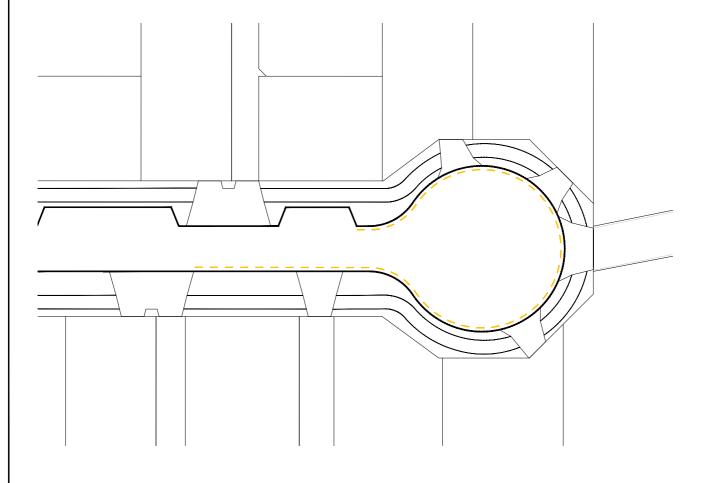
- This interim layout is to be used for planned staged development only. If extension of the road is not planned, then a permanent cul-de-sac must be provided
- Pavement must be designed for the maximum period before road extension will be open for public use.
- These dimensions can be accepted without supplying specific vehicle tracking.
- The clearance envelop must be protected against obstruction by a temporary easement or agreement.
- No Stopping At Any Time road-markings must be provided at all turning heads to extent shown for turning movement but not





Interim turning head

15/11/2024







Typical Cul-de-sac NSAAT marking layout

15/11/2024