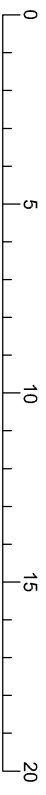
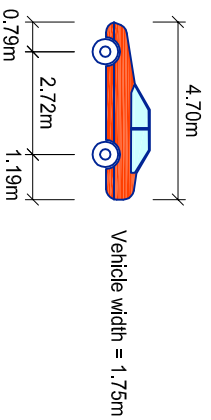


NOTES:

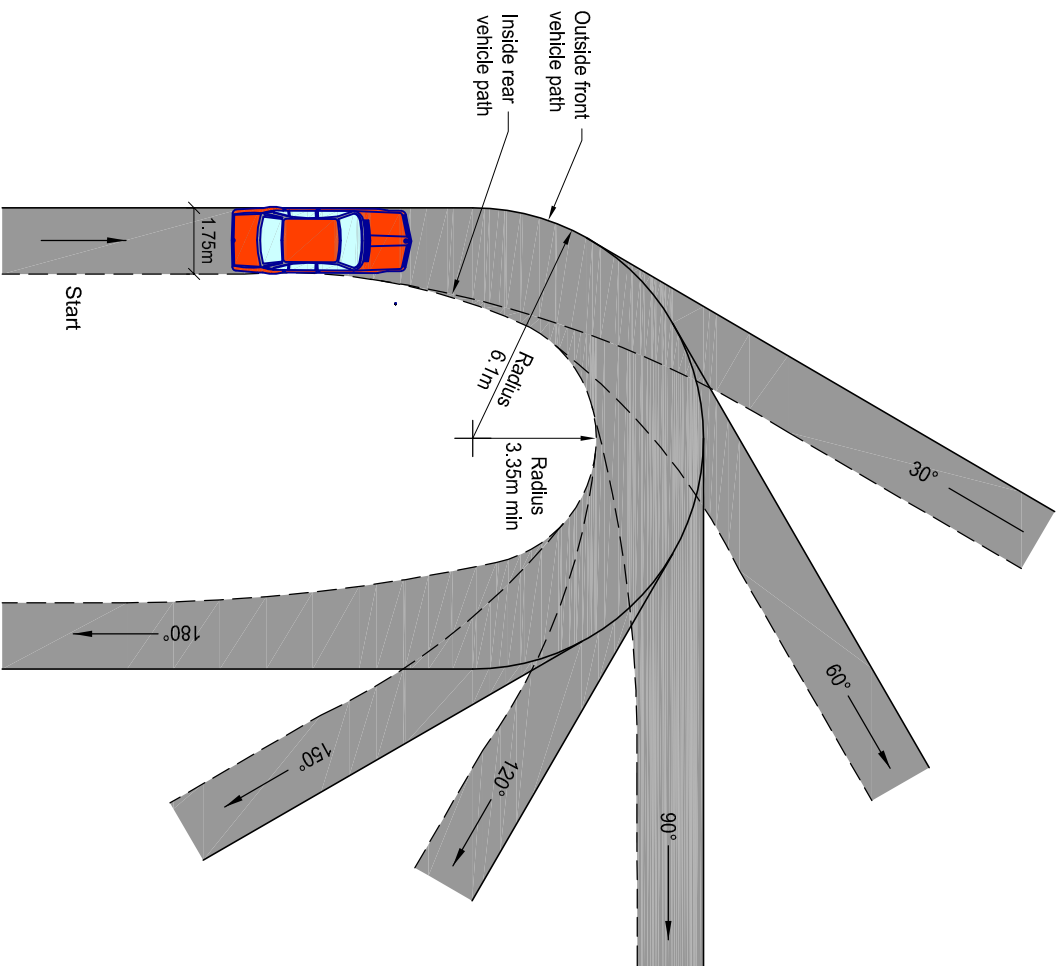
1. Minimum recommended clearance for both sides of vehicle : 600mm.



SCALE IN METRES



DESIGN VEHICLE DIMENSIONS



SWEPT PATH
90% Car
1:200

SWEPT PATH DESIGN
90% CAR

W410

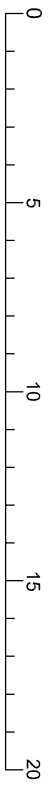
DEVELOPMENT CODE

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AUG 09

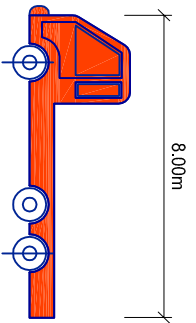
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NOTES:

- 1. Minimum recommended clearance for both sides of vehicle : 600mm.

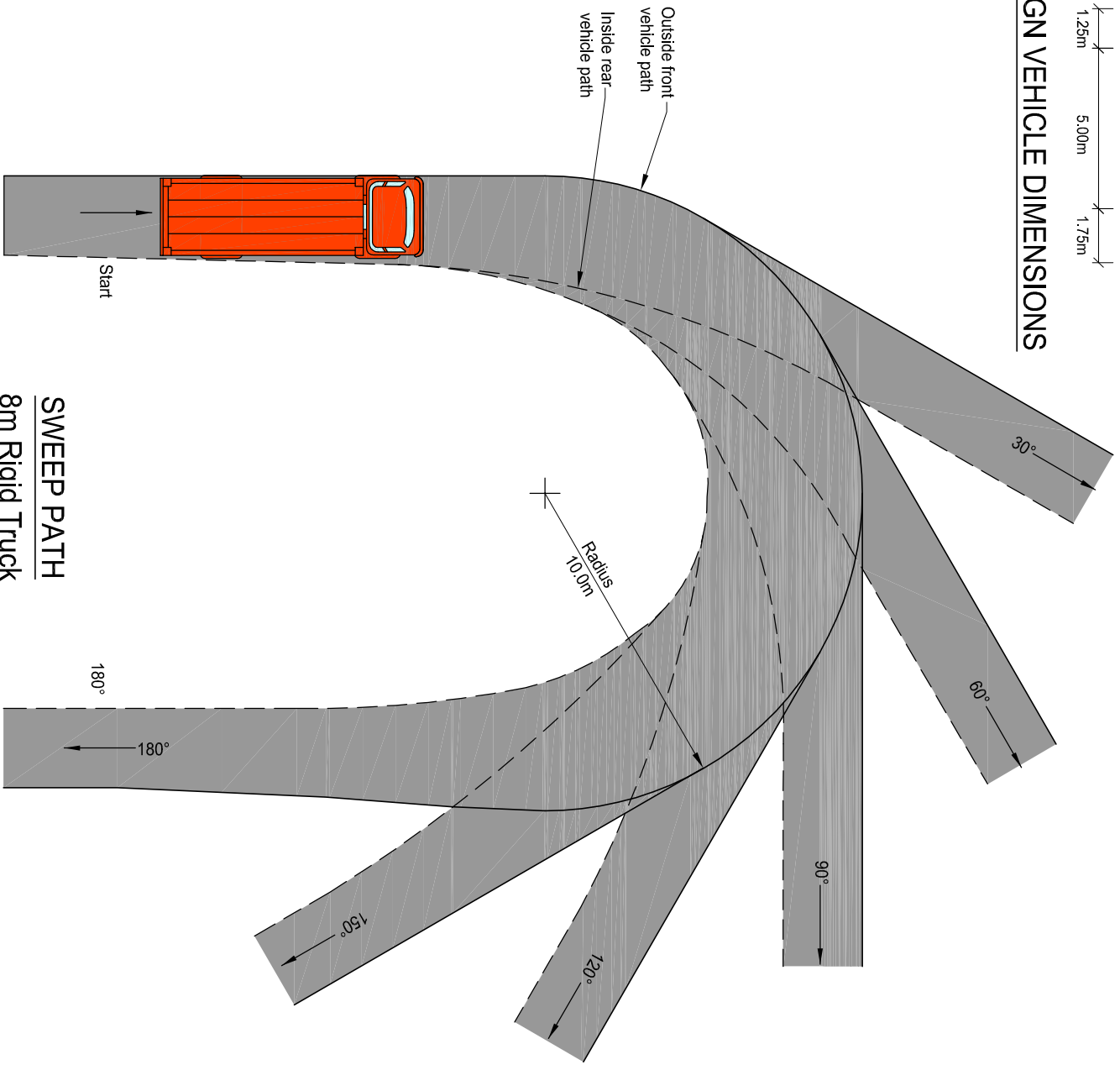


SCALE IN METRES



Vehicle width = 2.50m

DESIGN VEHICLE DIMENSIONS



SWEEP PATH
8m Rigid Truck
 1:200

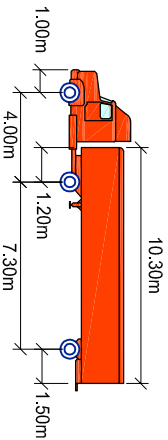
SWEEP PATH DESIGN
 MINIMUM TRUCK

W411

DEVELOPMENT CODE

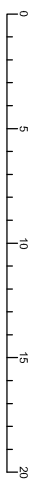
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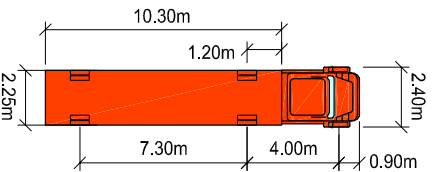
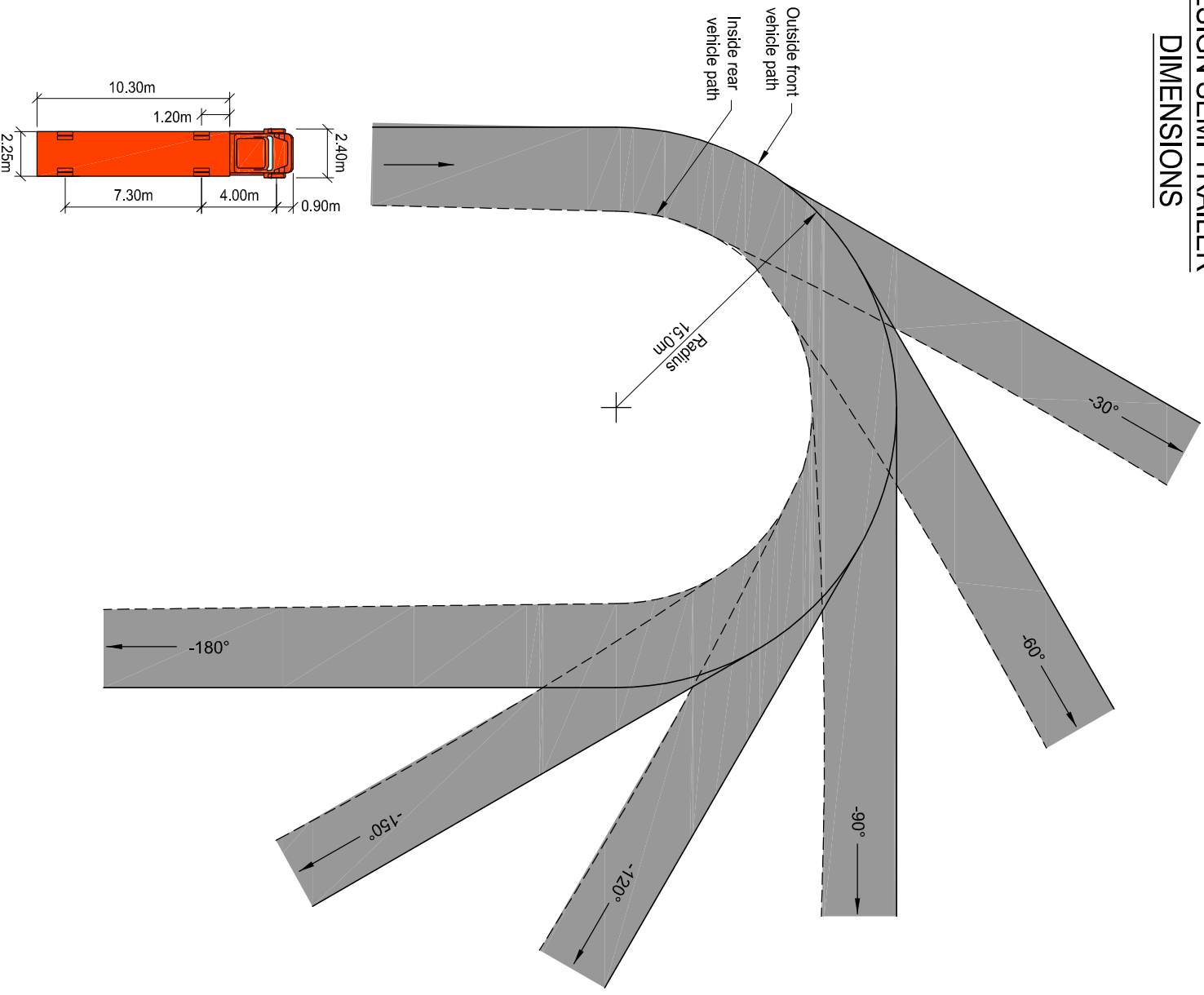


Vehicle width = 2.40m

SCALE IN METRES



DESIGN SEMI TRAILER DIMENSIONS



SWEPT PATH DESIGN 90% SEMI TRAILER

W412

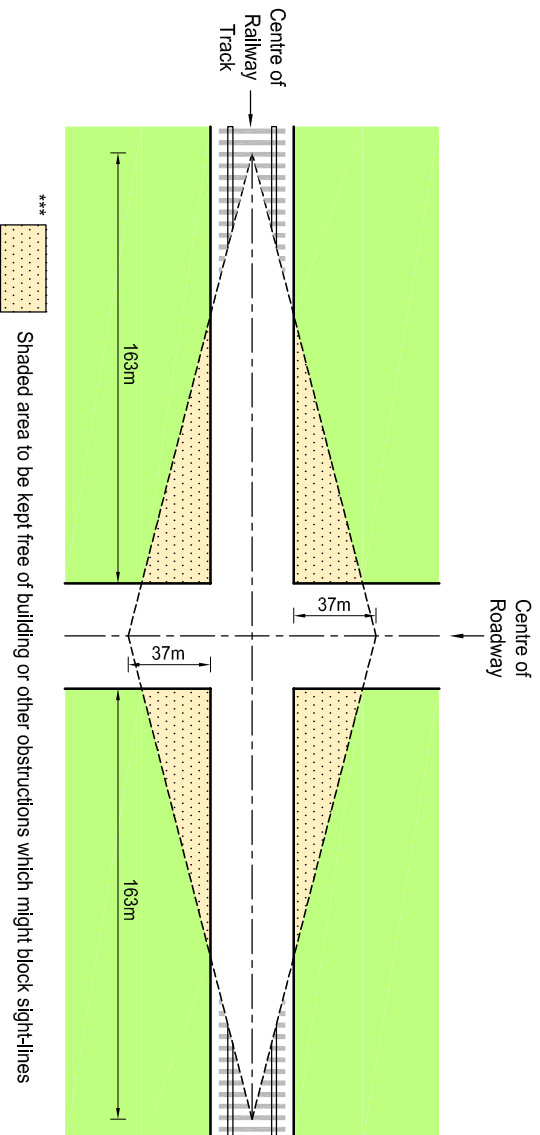
DEVELOPMENT CODE

VERSION 1
AUG 09

1

PROTECTION OF TRAFFIC SIGHT LINES

No construction of buildings, fences or other structures, placing of obstructions or the growth of vegetation shall be permitted on the immediate vicinity of road and railway intersections as follows.



1. Dispensation to dimensions given may be possible through application to New Zealand Rail Limited dependant upon train movements in the area.
2. Where there are two or more rail tracks, the 37 meter sight line applies from the centre line of the nearest track.

DISTANCE FROM INTERSECTION

The minimum separation distance "S" of a vehicle entrance from and existing or proposed new road intersection shall be as follows:

| | |
|----------------------------------|-----|
| | S |
| Rural Residential and Rural Zone | 30m |
| Commercial and Industrial Zones | 25m |
| Residential Zone | 8m |



(Distance "S") shall be measured from the intersection of the legal road boundaries or the edge of the road formation, whichever is closer to the entrance. Entrance shall not be constructed in no stopping zones.

INTERSECTION SIGHT DISTANCES

W414

NOTES:

1. Table 'A' lists the minimum sight distances for various combinations of driveway classifications, frontage, road classifications and operating speeds.
2. These sight distances to be measured along the centre of the appropriate lane to establish points C and D in figure 1. For practical purposes A and B can be taken as opposite the centre of the driveway.
3. Sight lines shall be from drivers eye height to drivers eye height (1.15m) above ground level within the sight triangle
4. The shaded area is to be considered as the Clear "sight triangle". Travel distances are to be measured along the centreline of the lane, but the sides of the "site triangle" are always to be straight.
5. For unsealed roads, add 25% to sight distance.
6. For approach gradients >5% refer to Austrorads tables and specifications.

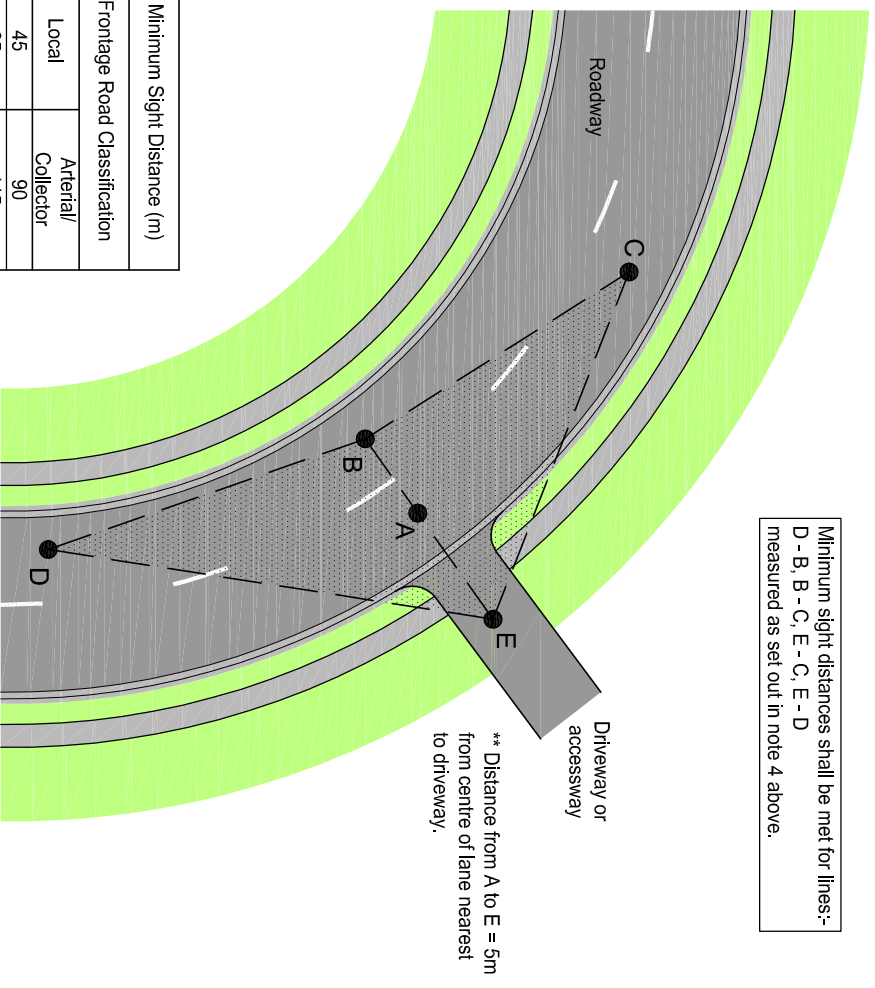


FIGURE 1

**For 85th Percentile Speed below 50km per hour use sight distance for 50km per hour.

| 85th Percentile Speed Value on Frontage Road | Minimum Sight Distance (m) | | |
|--|------------------------------|--------------------|-----|
| | Frontage Road Classification | Arterial/Collector | |
| Measured Speed | 50 | 45 | 90 |
| | 60 | 65 | 115 |
| | 70 | 85 | 140 |
| | 80 | 105 | 175 |
| | 90 | 130 | 210 |
| Assessed Speed | 100 | 160 | 250 |
| | 110 | 190 | 290 |
| | 120 | 230 | 330 |
| | 50 | 65 | 115 |
| | 60 | 85 | 140 |
| | 70 | 105 | 175 |
| | 80 | 130 | 210 |
| | 90 | 160 | 250 |
| | 100 | 190 | 290 |
| | 110 | 230 | 330 |
| | 120 | 270 | 370 |

TABLE A

ENTRANCEWAY SIGHT DISTANCES

W415

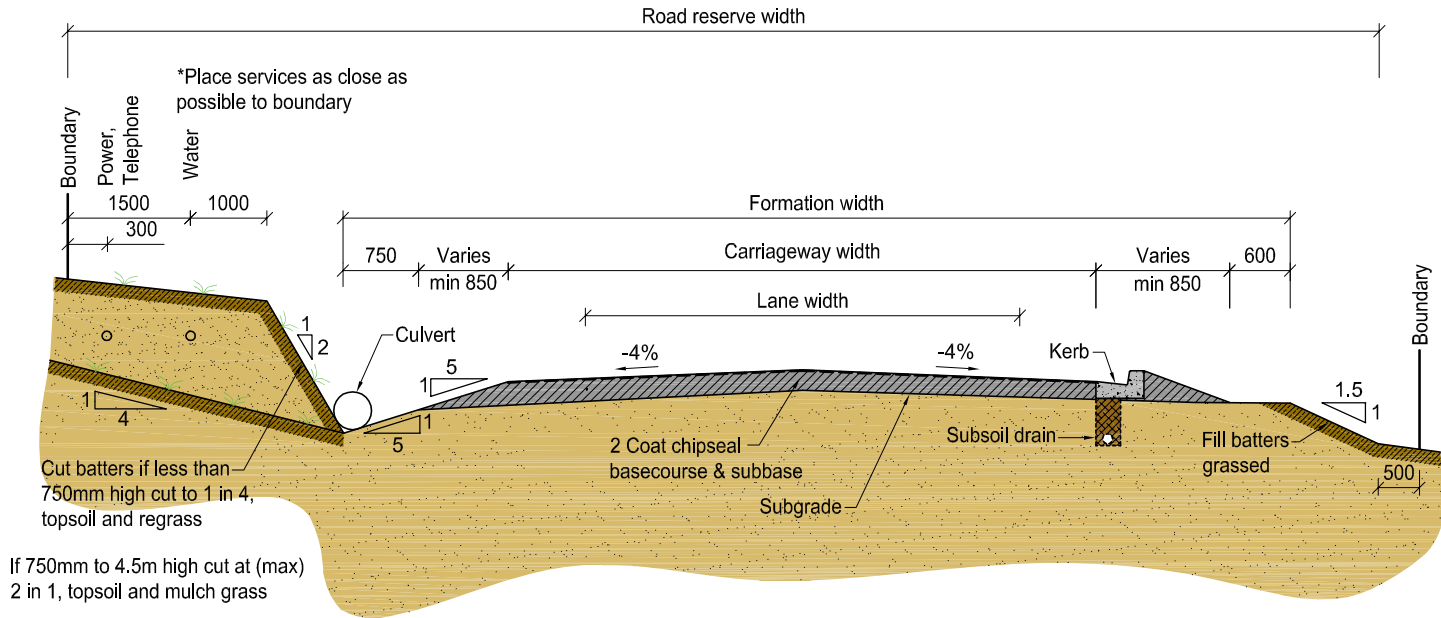
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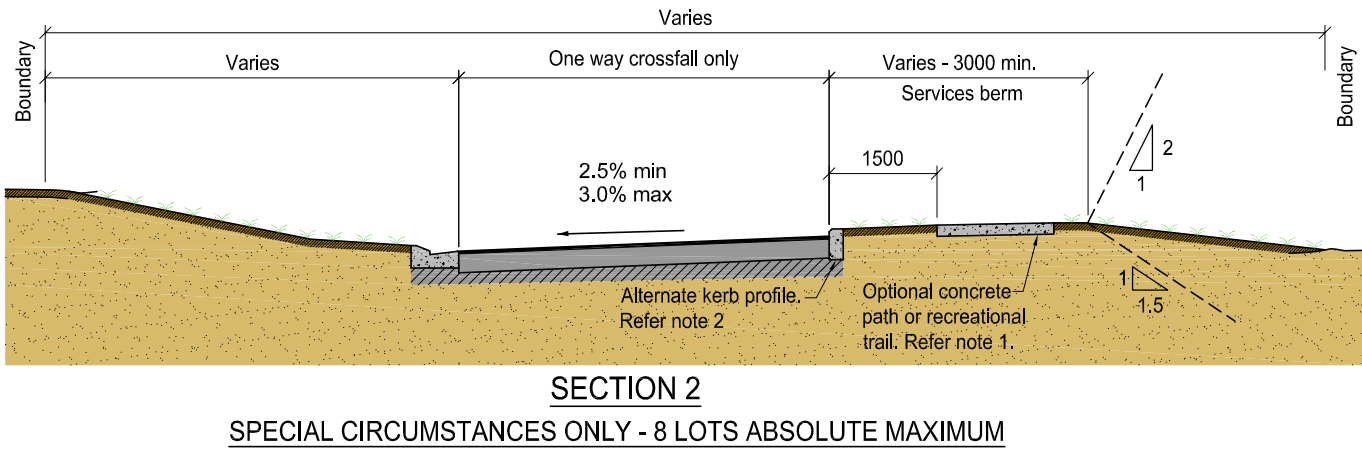
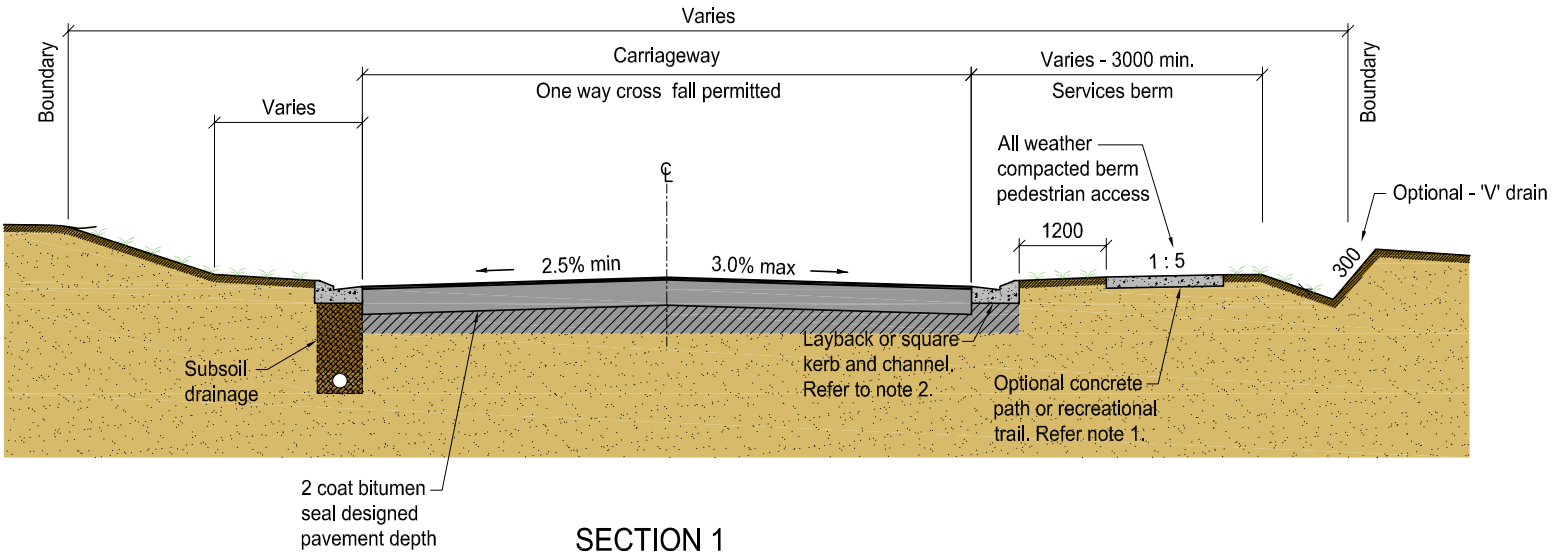
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STANDARD RURAL PUBLIC ROAD

W417

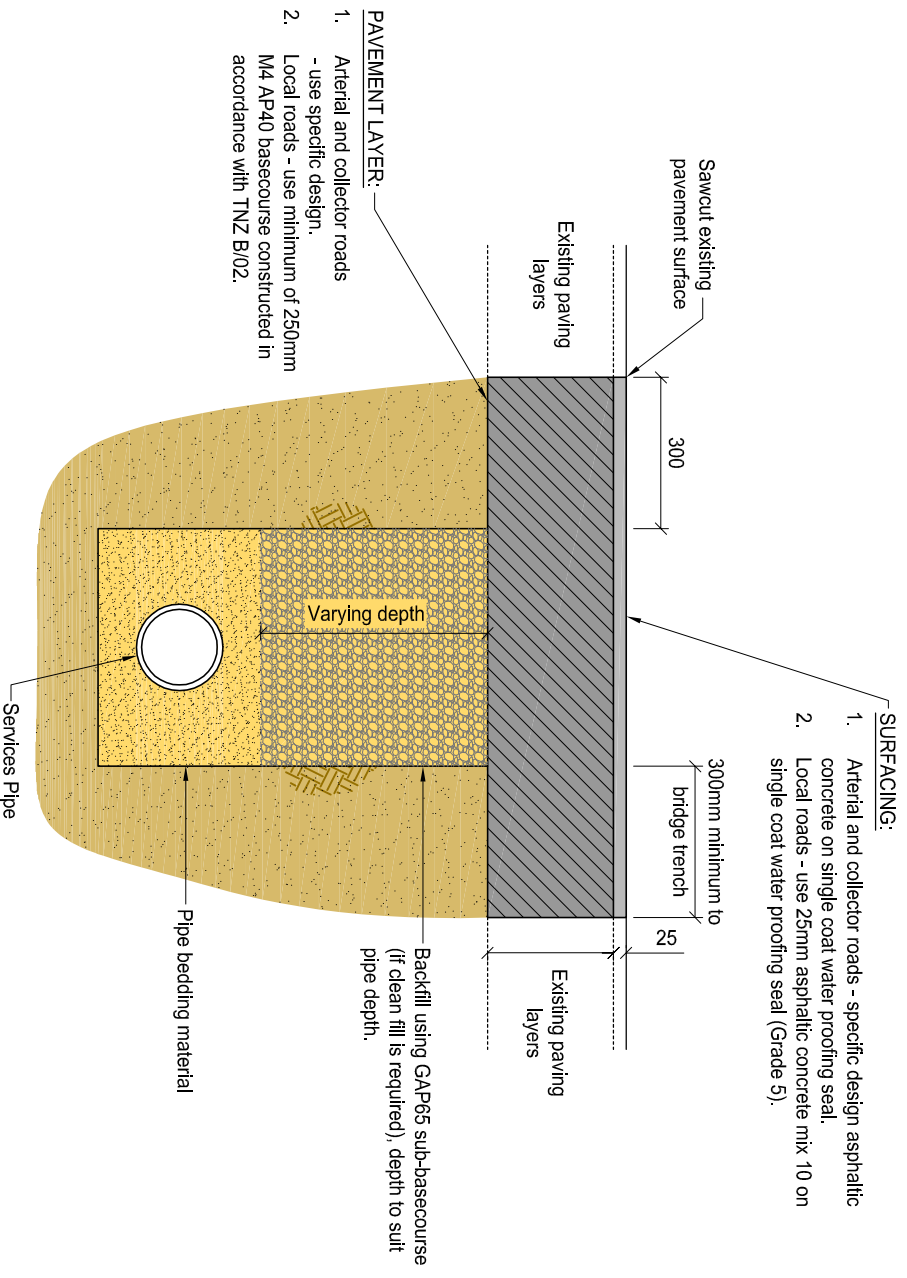


STANDARD CROSS SECTION



NOTES:

1. A concrete pedestrian path, shared use path or recreational trail shall be on one side only where required by Council.
2. Flush kerb and barrier kerb may be used in special circumstances.



SERVICE TRENCH IN CARRIAGEWAY

CARRIAGEWAY TRENCH REINSTATEMENT

W419

DEVELOPMENT CODE

VERSION 1
AUG 09

1