Vehicle Crossing Infrastructure Index

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Vehicle Crossing Index

20/05/2021



VEHICLE CROSSING FOOTPATH NEXT TO KERB



VEHICLE CROSSING FOOTPATH SEPARATED FROM KERB



VEHICLE CROSSING WITH FOOTPATH < 1.8m





TDM TECHNICAL STANDARDS

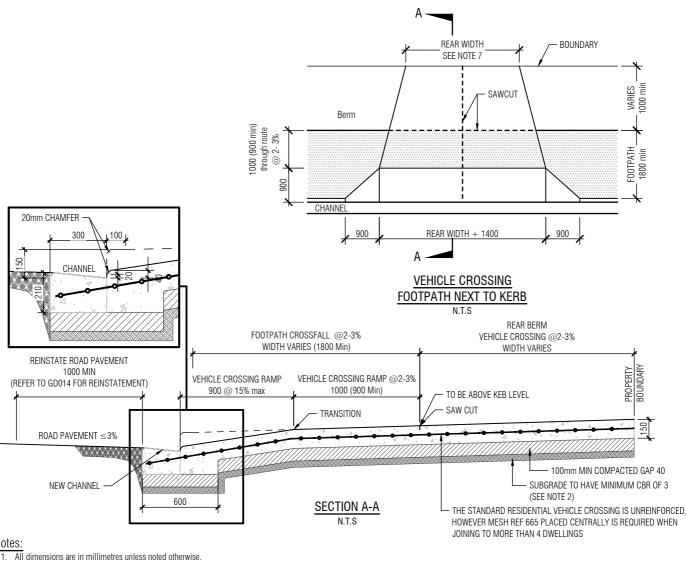
Residential Vehicle Crossing (Sheet 1 of 4)

Date: 20/05/2021

VX0101

A





- 2. If CBR of existing Subgrade is < 3, Pavement Design should be provided and approved by Auckland
- All concrete to be 20 Mpa and constructed in accordance with NZS 3109 with a broom finish and may contain upto 4% oxide.
- Saw cut expansion joints at 4m centres maximum each way in addition to saw cuts shown on dwg.
- Any existing infrastructure within the crossing may require specific design approval for relocation.
- Construct in same material and finish as surrounding footpath

 $7. \quad \text{Rear Width to be as permitted under Auckland unitary Plan}; \\$

2750-3000 - Single vehicle crossing 5500-6000 - Two-Way Shared Access 3000-3500 - One-Way Shared Access



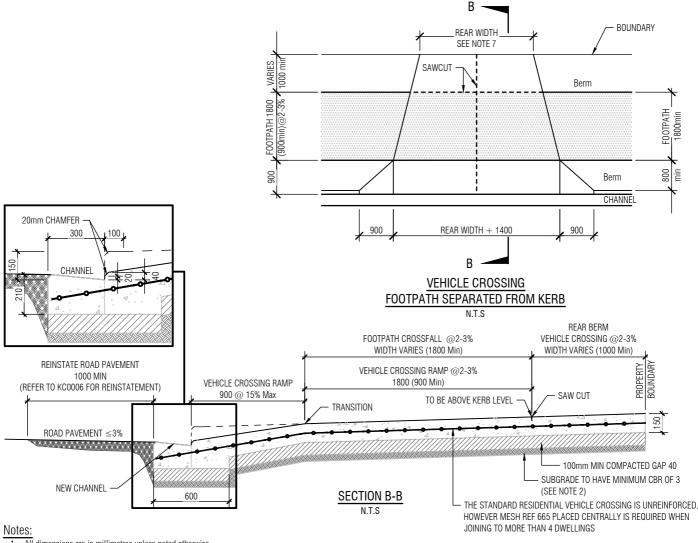


TDM TECHNICAL STANDARDS

Residential Vehicle Crossing (Sheet 2 of 4)

20/05/2021





- 1. All dimensions are in millimetres unless noted otherwise.
- If CBR of existing Subgrade is <3, Pavement Design should be provided and approved by Auckland Transport.
- All concrete to be 20 Mpa and constructed in accordance with NZS 3109 with a broom finish and may contain upto 4% oxide.
- 4. Saw cut expansion joints at 4m centres maximum each way in addition to saw cuts shown on dwg.
- 5. Any existing infrastructure within the crossing may require specific design approval for relocation.
- . Construct in same material and finish as surrounding footpath.

7. Rear Width to be as permitted under Auckland unitary Plan;

2750-3000 - Single vehicle crossing 5500-6000 - Two-Way Shared Access 3000-3500 - One-Way Shared Access





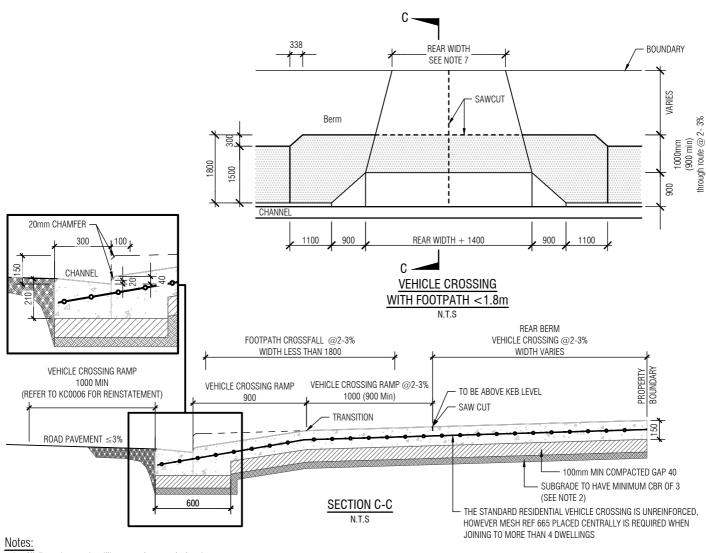
TDM TECHNICAL STANDARDS

Residential Vehicle Crossing (Sheet 3 of 4)

20/05/2021

VX0103

| **B**



- All dimensions are in millimetres unless noted otherwise
- 2. If CBR of existing Subgrade is <3, Pavement Design should be provided and approved by Auckland
- All concrete to be 20 Mpa and constructed in accordance with NZS 3109 with a broom finish and may contain upto 4% oxide.
- Saw cut expansion joints at 4m centres maximum each way in addition to saw cuts shown on dwg.
- Any existing infrastructure within the crossing may require specific design approval for relocation.
- Construct in same material and finish as surrounding footpath.

7. Rear Width to be as permitted under Auckland unitary Plan;

2750-3000 - Single vehicle crossing 5500-6000 - Two-Way Shared Access 3000-3500 - One-Way Shared Access



20/05/2021

VX0104

Transport Design Manual | Standard Engineering Details



DRIVEWAY CROSSING USING DRAINAGE PIPE

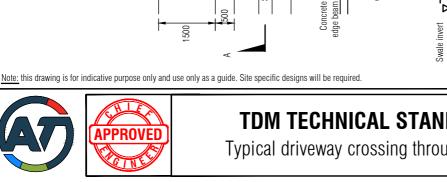
SECTION D-D

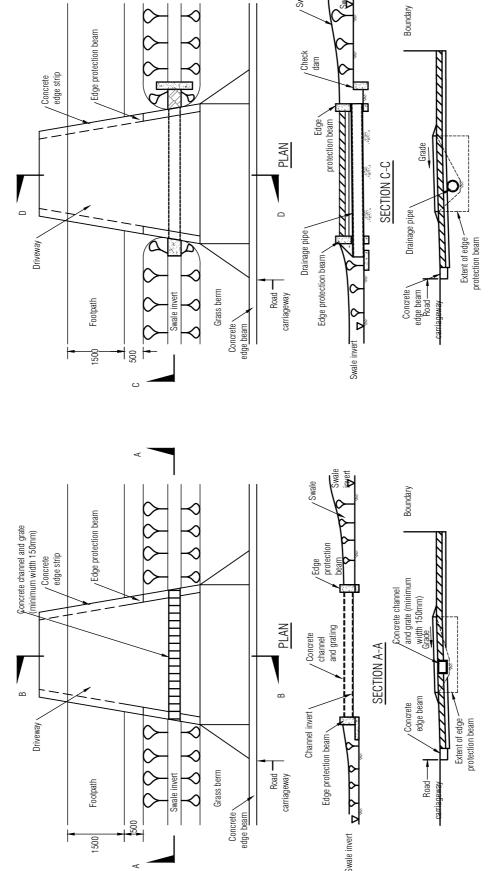


VX0105

DRIVEWAY CROSSING USING GRATED CHANNEL

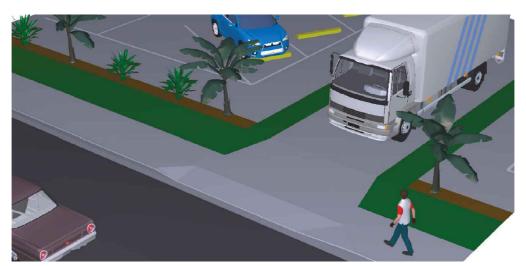
SECTION B-B





TDM TECHNICAL STANDARDS

Typical driveway crossing through a swale



VEHICLE CROSSING FOOTPATH NEXT TO KERE



VEHICLE CROSSING FOOTPATH SEPARATED FROM KERB



VEHICLE CROSSING WITH FOOTPATH < 1.8m





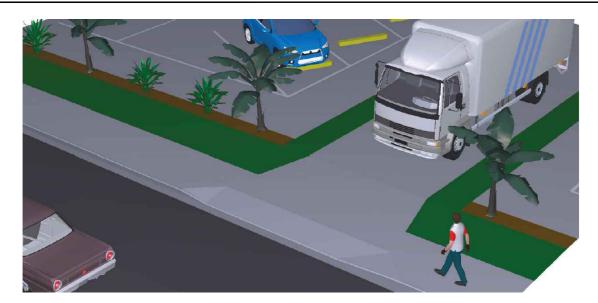
TDM TECHNICAL STANDARDS

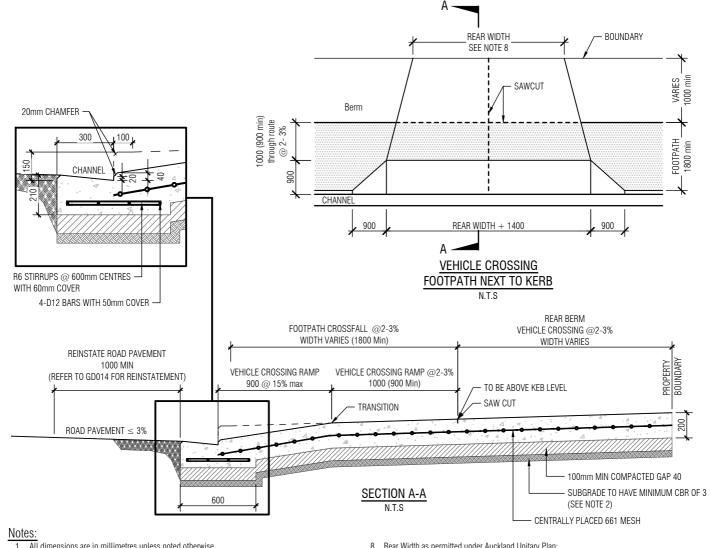
Commercial Vehicle Crossing (Sheet 1 of 4)

Date: 20/05/2021

VX0201

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- 1. All dimensions are in millimetres unless noted otherwise
- 2. If CBR of existing Subgrade is <3, Pavement Design should be provided and approved by Auckland
- All concrete to be 20 Mpa and constructed in accordance with NZS 3109 with a broom finish and may
- Saw cut expansion joints at 4m centres maximum each way in addition to saw cuts shown on dwg
- Any existing infrastructure within the crossing may require specific design approval for relocation.
- Construct in same material and finish as surrounding footpath
- Width of vehicle crossing to be designed by using tracking curves for intended large heavy vehicles
- Rear Width as permitted under Auckland Unitary Plan;

3700-4000 - Single vehicle crossing 6000-7000 - Double vehicle crossing

RESIDENTIAL USE;

2750-3000 - Single vehicle crossing

5500-6000 - Two-Way Shared Access 3000-3500 - One-Way Shared Access



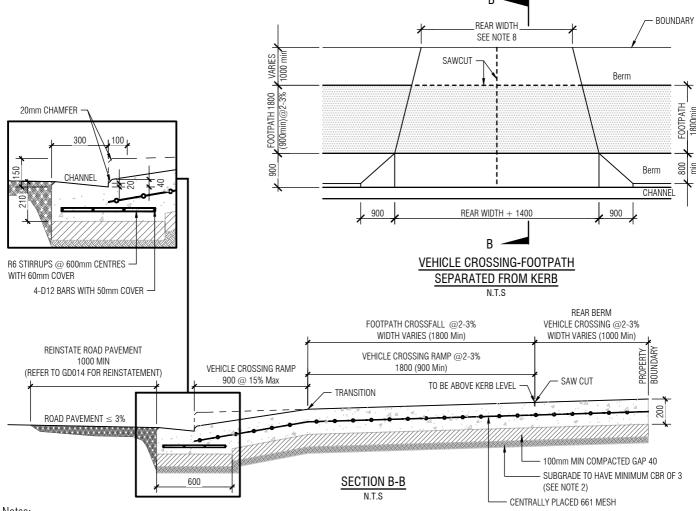
TDM TECHNICAL STANDARDS

Commercial Vehicle Crossing (Sheet 2 of 4)

20/05/2021







- All dimensions are in millimetres unless noted otherwise.
- If CBR of existing Subgrade is < 3, Pavement Design should be provided and approved by Auckland
- All concrete to be 20 Mpa and constructed in accordance with NZS 3109 with a broom finish and may contain upto 4% oxide.
- Saw cut expansion joints at 4m centres maximum each way in addition to saw cuts shown on dwg.
- Any existing infrastructure within the crossing may require specific design approval for relocation.
- Construct in same material and finish as surrounding footpath.
- Width of vehicle crossing to be designed by using tracking curves for intended large heavy vehicles.
- 8. Rear Width as permitted under Auckland Unitary Plan;
 - COMMERCIAL USE:

3700-4000 - Single vehicle crossing

6000-7000 - Double vehicle crossing

RESIDENTIAL USE:

2750-3000 - Single vehicle crossing

5500-6000 - Two-Way Shared Access

3000-3500 - One-Way Shared Access

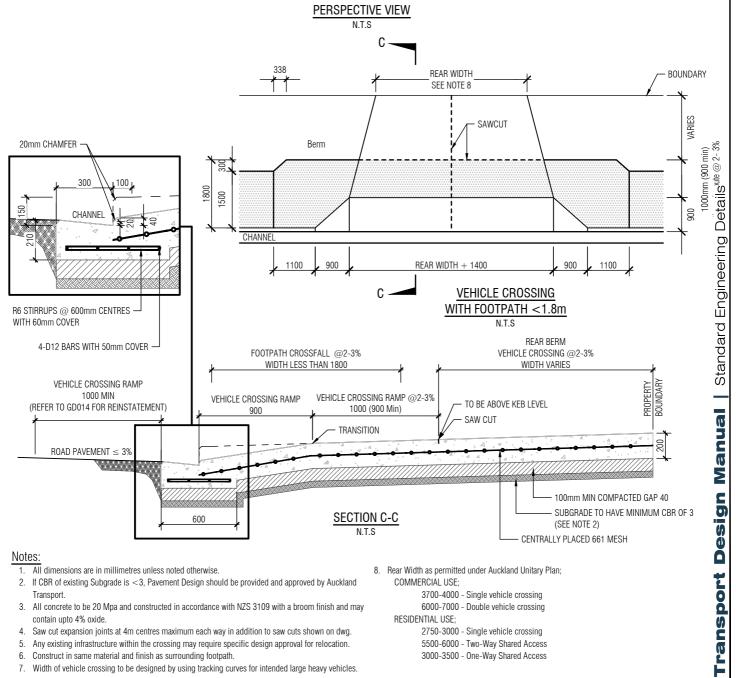




TDM TECHNICAL STANDARDS

Commercial Vehicle Crossing (Sheet 3 of 4)

20/05/2021



- All dimensions are in millimetres unless noted otherwise.
- 2. If CBR of existing Subgrade is < 3, Pavement Design should be provided and approved by Auckland
- All concrete to be 20 Mpa and constructed in accordance with NZS 3109 with a broom finish and may contain upto 4% oxide
- Saw cut expansion joints at 4m centres maximum each way in addition to saw cuts shown on dwg.
- Any existing infrastructure within the crossing may require specific design approval for relocation.
- Construct in same material and finish as surrounding footpath
- Width of vehicle crossing to be designed by using tracking curves for intended large heavy vehicles.
- Rear Width as permitted under Auckland Unitary Plan;
 - COMMERCIAL USE;

3700-4000 - Single vehicle crossing 6000-7000 - Double vehicle crossing

RESIDENTIAL USE;

2750-3000 - Single vehicle crossing

5500-6000 - Two-Way Shared Access

3000-3500 - One-Way Shared Access





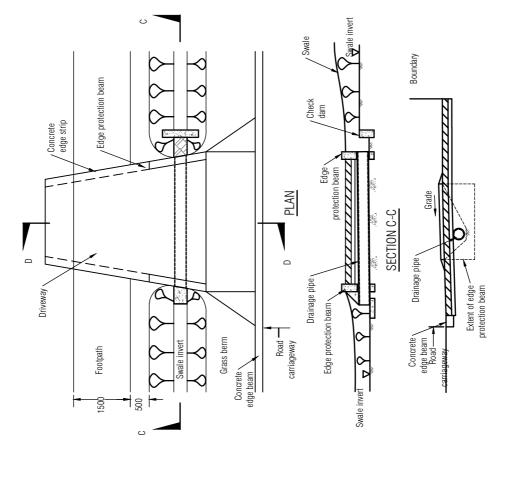
TDM TECHNICAL STANDARDS

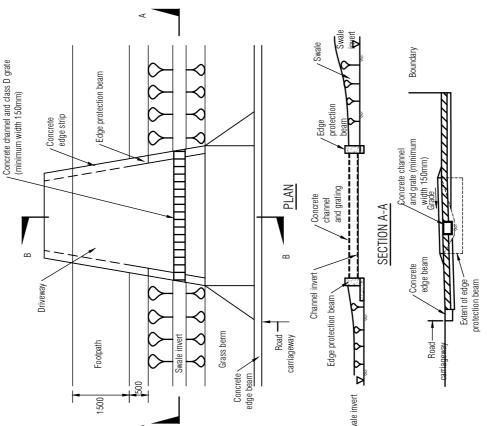
Commercial Vehicle Crossing (Sheet 4 of 4)

20/05/2021

DRIVEWAY CROSSING USING DRAINAGE PIPE

SECTION D-D





DRIVEWAY CROSSING USING GRATED CHANNEL SECTION B-B





Note: this drawing is for indicative purpose only and use only as a guide. Site specific designs will be required.

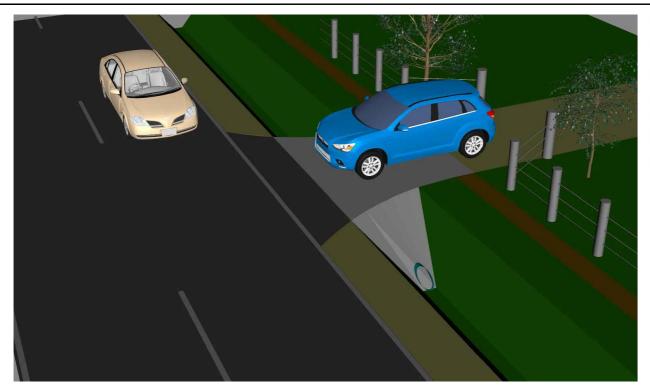
TDM TECHNICAL STANDARDS

Typical commercial driveway crossing through a swale

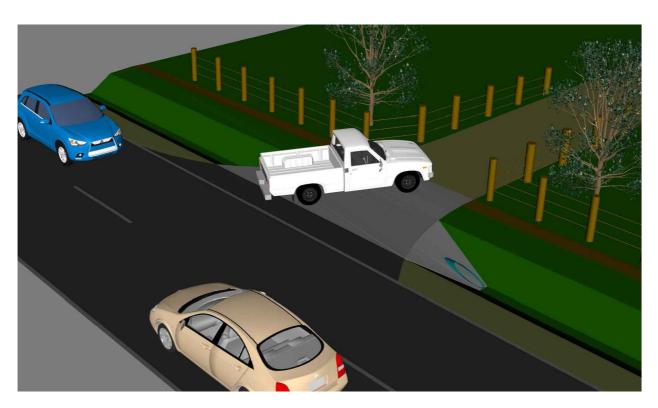
20/05/2021

VX0205

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RURAL VEHICLE CROSSING (ZONE SPEED = 50km/hr)



RURAL VEHICLE CROSSING (ZONE SPEED > 60km/hr)





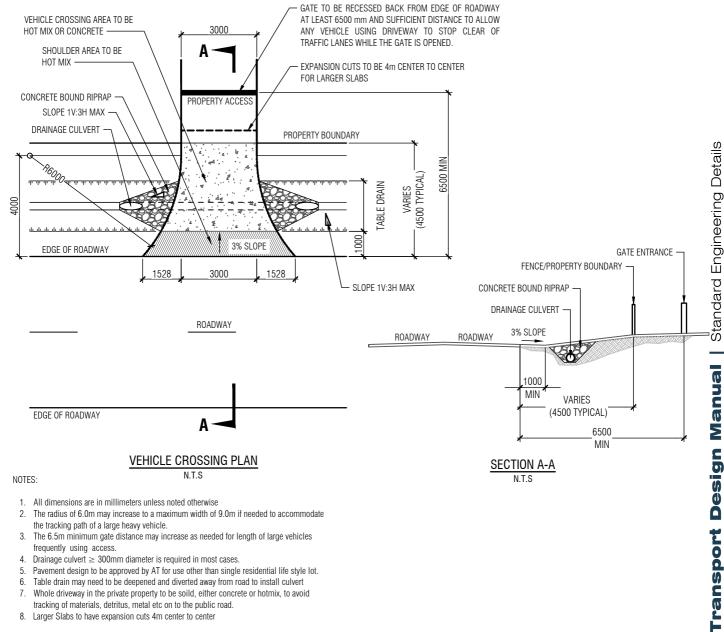
Rural Vehicle Crossing

^{Date:} 20/05/2021

VX0301

301 | A

3D VIEW



- All dimensions are in millimeters unless noted otherwise
- The radius of 6.0m may increase to a maximum width of 9.0m if needed to accommodate the tracking path of a large heavy vehicle.
- The 6.5m minimum gate distance may increase as needed for length of large vehicles frequently using access.
- Drainage culvert ≥ 300mm diameter is required in most cases.
- Pavement design to be approved by AT for use other than single residential life style lot.
- Table drain may need to be deepened and diverted away from road to install culvert
- Whole driveway in the private property to be soild, either concrete or hotmix, to avoid tracking of materials, detritus, metal etc on to the public road
- Larger Slabs to have expansion cuts 4m center to center

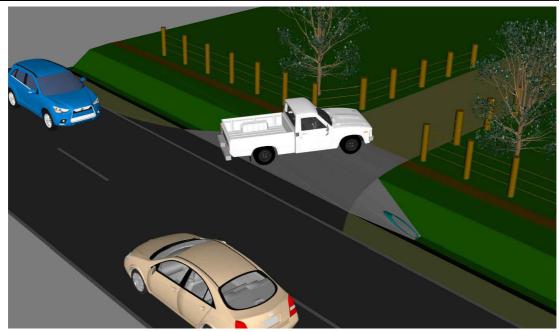


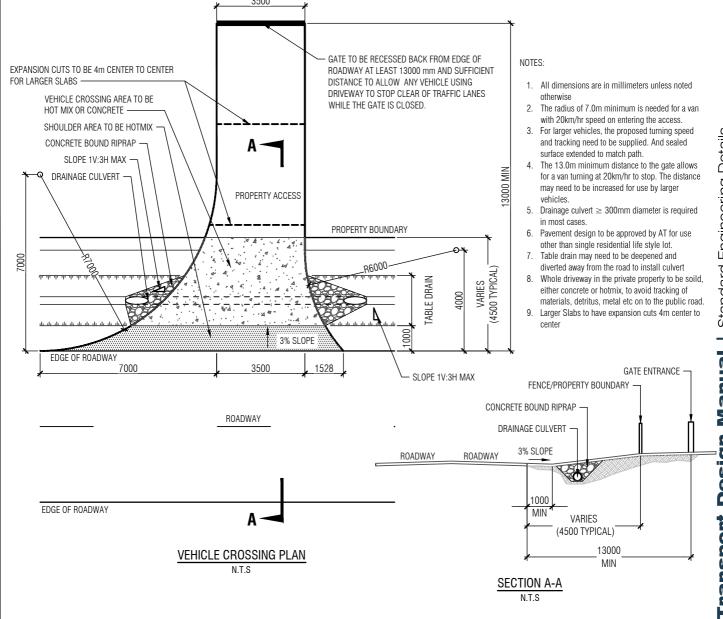


TDM TECHNICAL STANDARDS

Rural Vehicle Crossing (Zone Speed=50km/hr)

20/05/2021









TDM TECHNICAL STANDARDS

Rural Vehicle Crossing (Zone Speed > 60km/hr)

20/05/2021