



Rural/Urban Vehicle Crossings Standards and Guidelines

Date: November 2012



SOUTHTECH

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Vehicle Crossings

Definition

Vehicle crossing means the area of land used for access from the road to the property boundary. It includes kerbs, culverts, bases, surfaces and paving of all types and footpath sections.

Introduction

This Booklet sets out South Waikato District Council's safety considerations and standards for vehicle crossings within the District for construction of new, repair or widening of any vehicle crossing for both rural and urban. The Booklet contains the following sections.

1. Purpose
2. Safety Issues
3. Policies
4. Council Requirements
5. Inspections and Approvals
6. Sight Distances
7. Standard Drawing and Guidelines

Note: For any vehicle crossings onto State Highways please contact New Zealand Transport Agency through Opus Consultants Taupo, ph: (07) 378 0746.

Purpose

- To provide safe, well constructed, uniform and efficient property access throughout the District.

Safety Issues

- Sight distances
- Length to meet vehicle turning requirements
- Location/alignment at intersections
- Defined Level of Service to be maintained

Policies

- South Waikato District Council - District Plan
- South Waikato District Council – Code of Practice for Subdivision and Development
- Public Places Bylaw 2011

Council Requirements

- Any person wishing to construct, repair, remove or widen any vehicular crossing shall first obtain approval from the South Waikato District Council, prior to the commencement of construction.
- Any person wishing to construct, relocate, extend an entrance must apply for a Corridor Access Request (CAR), through the completion of a submission form on www.beforeudig.co.nz. (The submission allows other service providers to issue plans of their services to you, and request any special conditions they may require.)
- A Temporary Traffic Management Plan (TMP) (completed by a suitable qualified person) must be lodged at least 2 days prior to the planned commencement of construction.
- All new entrance ways, replacement of existing entrances, and extensions/upgrading of existing entrances, shall be constructed to the appropriate Council standard and at the applicant's cost.

Inspections and approval

- The applicant will notify Council prior to commencing to confirm location and standard required, and on completion of final surfacing, to allow the opportunity to inspect the vehicle crossing.
- Vehicle entrances constructed without Council inspections will be deemed as an illegal entrance.
- Final approval will be issued once the vehicle crossing has been inspected and deemed satisfactory.

Standards/Guidelines

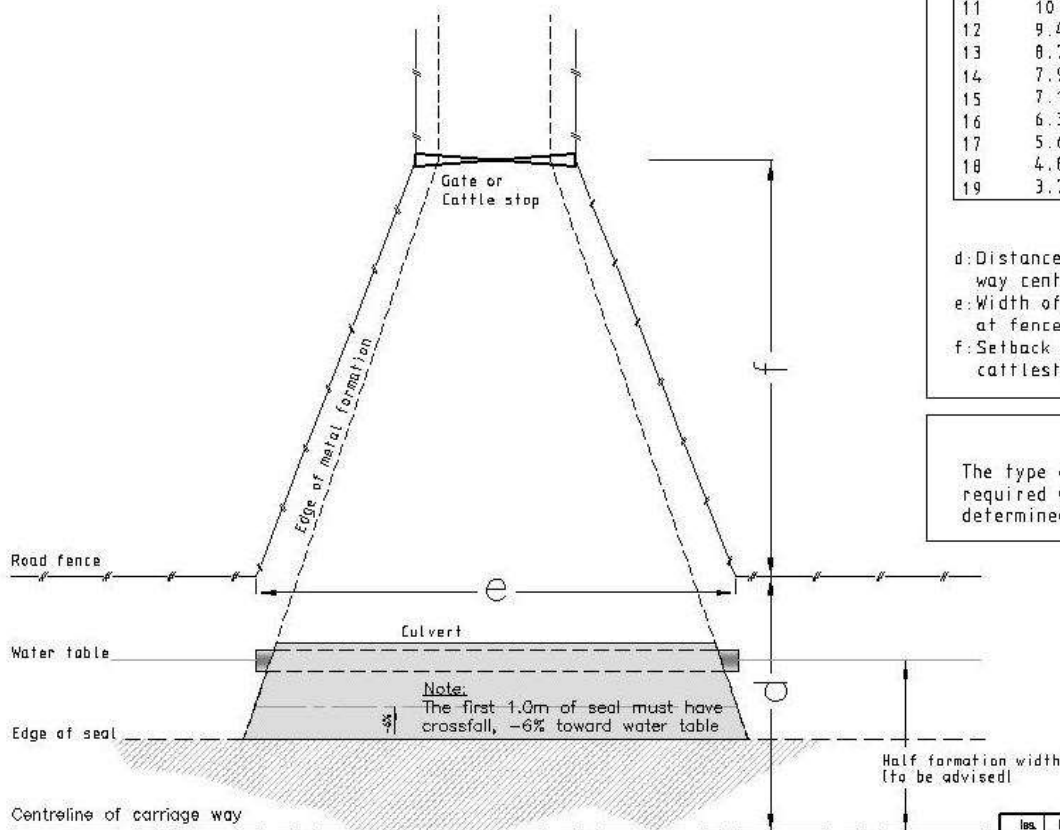
- Where a kerbline and footpath exist (eg in urban areas) a vehicle crossing shall be provided between the kerbline and back of the footpath at the entrance to all entrance strips to rear lots, accessways and service lanes and for any other lot where the location of the future driveway to the lot can be determined with reasonable certainty.
- Details of recommended forms of minor urban crossings are indicated in Figure 10.
- Details of recommended forms of industrial/commercial crossings are indicated in Figure 10.1.
- Where a footpath exists in permanent material and good condition, it may be incorporated into the crossing, providing the resultant gradient is not more than 1 in 8.
- Where crossings may be expected to carry heavy traffic, these shall be specifically designed and the depth increased or reinforcing provided, or both, to the Engineer's requirement.

Table 3 – Sight Distances

Posted Speed (km/h)	Minimum Sight Distance to and from crossing (in metres) (S)	Minimum Distance between a crossing and an intersection (in metres - measured centerline to centerline)	Minimum distance between a SH and a crossing down a side road (in metres - measured crossing centerline to near boundary of SH)	Minimum distance between crossings (in metres)
100	250	200	60	200
80	170	120	60	100
70	140	100	45	
60	115	50	30	
50	85	30	20	

Standard Drawings

- Major Rural vehicle crossing Figure 17 Drawing No. 1882.1
- Minor Rural Vehicle Crossing Figure 18 Drawing No. 1882.2
- Minor Urban Vehicle Crossing Figure 10 Drawing No. 1882.3
- Industrial/commercial Vehicle Crossing Figure 10.1 Drawing No. 1882.4



SETTING OUT TABLE		
d	e	f
3	25	16
4	23	15
5	21	14
6	19	13
7	17	12
8	15	11
9	13	10
10	11	9
11	10.2	8
12	9.4	7
13	8.7	6
14	7.9	5
15	7.1	4
16	6.3	3
17	5.6	2
18	4.8	1
19	3.7	0

d: Distance from carriage way centreline to boundary
 e: Width of entranceway at fenceline
 f: Setback of gate or cattlestop from fence

NOTE
 The type of entrance way required will be determined by the Engineer.

Construction: All topsoil is to be removed and replaced with approved material. The depth may vary with soil conditions, but the minimum requirement is 100mm of approved backfill material, overlaid with 70mm of metal. All work must have the Engineers prior approval.

Drainage: The crossing is to be shaped such that the stormwater or loose metal does not migrate onto the road. In all cases culverts must extend the full width of the driveway splay.

Culvert: All pipes used under entrances shall have a minimum 225mm diameter and be of either reinforced concrete rubber ring jointed class Z pipes, or approved steel pipes. Plastic pipes are **NOT** approved.

Visibility: Crossing shall comply with the RTS 6 * Guidelines for Visibility at Driveways^o, And will be subject to council approval.

Sealing: Entrance will be sealed to a minimum of 5metres from existing edge of seal, or to boundary which ever is lesser.

Iss.	Date	Drawn	Amendments
C	7/08	BA	Sheet numbers swapped
D	2/08	BA	Transferred to M
E	5/01	JB	Changes to Holes
F	9/08	WA	Ramp up of Flap
G	07/10	WL	Changed seal note from 3 - 5metres

SOUTH WAIKATO DISTRICT COUNCIL


Private Bag
 Tophin Crescent
 Takorua



Drawing Title:
 Major Rural
 Vehicle Crossing
 Fig. 17

	Name	Date
Surveyed		
Designed		
Drawn		
Checked		

APPROVED

ENGINEER: 

FILENAME:
 G:\draw

SUR Ref: _____

SCALE: _____

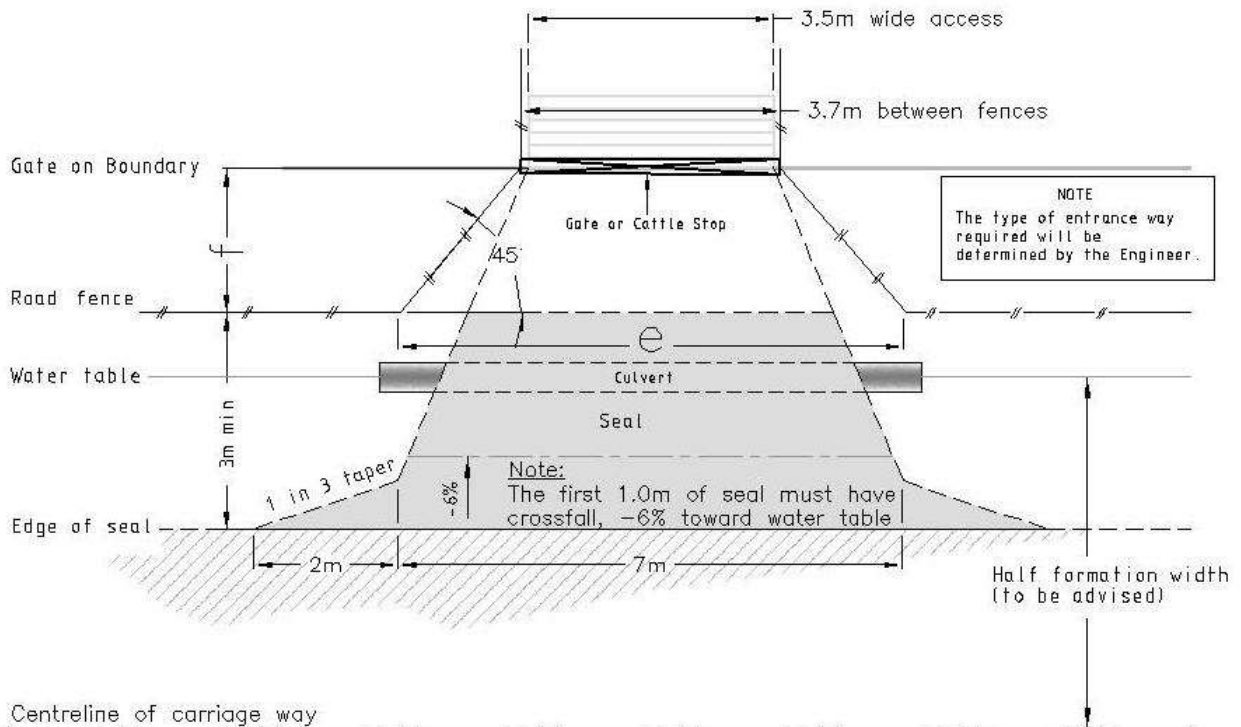
ISSUE: C

DRAWING NUMBER: **1882.1**

SHEET NUMBER: 1 OF 4

SETTING OUT TABLE	
f	e
0	3.7
1	5.7
2	7.7
3	9.7
4	11.7
5	13.7

e: Width of entranceway at fenceline
 f: Set back of gate from fence



Iss.	Date	Drawn	Amendment
C	7/88	BA	Sheet numbers swapped
D	2/98	BA	Transferred to A4
E	6/02	JB	Classification of Gate Position
F	8/08	NA	Paving & removal sealed table
G	7/10	WL	Changed seal note from 3 - 5metres

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SOUTH WAIKATO DISTRICT COUNCIL


Private Bag
 Tarphin Crescent
 Takarua



Drawing Title:
 Minor Rural
 Vehicle Crossing
 Fig 18

	Name	Date
Surveyed		
Designed		
Drawn		
Checked		

APPROVED


ENGINEER: 

FILENAME: G:\Draw

SUR Ref: _____ SCALES: _____ ISSUE: G

DRAWING NUMBER
1882.2

SHEET NUMBER
 2 OF 4

Application To Form A Vehicle Crossing (Entrance)	 South Waikato District Council
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Made under the South Waikato District Council Public Places Bylaw 2011

Rural/Urban Crossing Standards and Guidelines are available from Council Service Centres

Property Owner

Contractor

Name: _____ Postal Address: _____ _____ Phone No: _____	Name: _____ Postal Address: _____ _____ Phone No: _____
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Address of Proposed Vehicle Entrance

Address: _____ Legal Description/Valuation No: _____

Notes:

Approval of your application is for 12 months, with your vehicle entrance to be completed within that period.

It is the property owner's responsibility to arrange the pay for the construction of a vehicle entrance.

A vehicle entrance constructed without Council approval and inspections will be deemed as an illegal entrance.

A vehicle entrance must be formed to top-course stage prior to the commencement of any building work.

Yourself or your Contractor will need to apply for a Corridor Access Request for any work undertaken within the road or road reserve.

Yourself or your Contractor will need to complete a Temporary Traffic Management Plan (Council to approve) at least 2 days prior to construction commencing. (If there is a need for public notification, a road closure for example, then additional notice is required.)

Entrance Type:

- Residential
- Rural
- Commercial/Industrial

Construction Activity:

- New
- Upgrade
- Removal

TO COMPLETE THIS APPLICATION, PLEASE READ AND SIGN THE REVERSE SIDE OF THIS SHEET

Declaration:

I will notify Council two working days prior to excavation to confirm location and entrance requirements.

I will construct a vehicle crossing (entranceway) that complies with Council specifications as laid out in Rural/Urban Vehicle Crossings Standards and Guidelines Booklet.

I will notify Council on completion of the work.

I understand that all costs are the responsibility of the property owner and that a vehicle crossing that does not meet Council specifications, will be upgraded at the property owner's cost.

I understand that I will be responsible for any costs associated with any repair work required as a result of settlement or poor workmanship during a 12 month period of maintenance.

Attached: Admin. Fee \$52.00 (incl GST)

Owner's Signature:

Signature: _____ Name: _____ Date: _____

Approving Engineer: _____ Date: _____

Installation to be completed within 1 months of receiving engineering approval

For Office Use

Receipt No. _____

Route Position _____ Side _____

Inspection Type	Date	Inspected by	Comments	Approval
Location				
Completion				

Additional Inspections: Date _____ Comments _____

Entered into RAMM

Placed on Property

