ENTIRE VEHICLE CROSSING (ROAD TO BOUNDARY) TO BE CONCRETE

SAW CUT PATH AND REINSTATE TO NEW CROSSING

PATH 1.5m WIDE

3% CROSSFALL

BOUNDARY

LINE

KERB LINE

PLAN

TYPICAL SECTION

NEW CONCRETE CROSSING

KERB TO BE BROKEN OUT

25 LIP

ORIGINAL CHANNEL

NEW CHANNEL DETAIL

SECTION A

EXISTING CHANNEL DETAIL

NEW CONCRETE CROSSING

KERB TO BE BROKEN OUT

25 LIP

ORIGINAL CHANNEL

SECTION B

NOTE

THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCILS STANDARDS.

THE CROSSING WIDTH IS THE MINIMUM ALLOWABLE BUT MAY BE INCREASED UP TO 6.0m AT COUNCILS DISCRETION.

TO BE READ IN CONJUNCTION WITH DRAWING RD-WDC-009 AND RD-WDC-010

WHANGANUI DISTRICT COUNCIL

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS

URBAN RESIDENTIAL - CONCRETE FOOTPATH

CONCRETE 20 MPA
FINISH US THEN US SOFT BROOM AS PER NZS 3114 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE

WHANGANUI DISTRICT COUNCIL

TE Kaumiri kia Rohe o Whanganui
ENTIRE VEHICLE CROSSING (ROAD TO BOUNDARY) TO BE CONCRETE

CONCRETE 20 MPA
FINISH U3 THEN U5 SOFT
BROOM AS PER NZS 3116 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE

TYPICAL SECTION

NEW CONCRETE CROSSING
KERB TO BE BROKEN OUT
25 LIP

EXISTING CHANNEL DETAIL
SECTION A

NEW CHANNEL DETAIL
SECTION B

NOTE
THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCILS STANDARDS.
THE CROSSING WIDTH IS THE MINIMUM ALLOWABLE BUT MAY BE INCREASED UP TO 6.0m AT COUNCILS DISCRETION.
TO BE READ IN CONJUNCTION WITH DRAWING RD-WDC-009 AND RD-WDC-910

WHANGANUI DISTRICT COUNCIL

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS

URBAN RESIDENTIAL - SEALED FOOTPATH

RD-WDC-002

23/02/16
ENTIRE VEHICLE CROSSING (ROAD TO BOUNDARY) TO BE CONCRETE

BOUNDARY

3500

LINE

SAW CUT PATH AND REINSTATE TO NEW CROSSING

PATH 1.5m WIDE SHAPED TO SUIT CROSSING

3% CROSSFALL ON FOOTPATH

KERB LINE

CROSSING GRADIENTS AS PER FIG 3.9 NZS 4404:2004

300

4100

300

KERB AND CHANNEL PROFILE CONTINUES

2-3 DWELLING UNITS CROSSING PLAN 1:200

CONCRETE 20 MPA
FINISH U3 THEN U5 SOFT
BRIDG AS PER NZS 3114 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE

665 MESH

150

PATH

NEW CONCRETE CROSSING

KERB TO BE BROKEN OUT

25 LIP

TROWEL KERB TO PROFILE

25 LIP

TYPICAL SECTION

NEW CONCRETE CROSSING

KERB TO BE BROKEN OUT

25 LIP

EXISTING CHANNEL DETAIL 1:20

SECTION A

NEW CHANNEL DETAIL 1:20

SECTION B

NOTE

THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCILS STANDARDS. THE CROSSING WIDTH IS THE MINIMUM ALLOWABLE BUT MAY BE INCREASED UP TO 6.0m AT COUNCILS DISCRETION. TO BE READ IN CONJUNCTION WITH DRAWING RD-WDC-009 AND RD-WDC-010

WHANGANUI DISTRICT COUNCIL

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS

R.D.W. CROSSING CONCRETE FOOTPATH

WHANGANUI DISTRICT COUNCIL

TE KAAUHEA I ROHE A WHANGANUI

DESIGNER

WHANGANUI DISTRICT COUNCIL

CHECKED

APPROVED

‘1367

CONSTRUCTION

23/02/16

RD-WDC-003

AB
**2-3 Dwelling Units Crossing Plan**

**Crossing Plan**

**Typical Section**

**Existing Channel Detail**

**New Channel Detail**

**Note:**

This drawing shows an acceptable solution meeting council's standards. The crossing width is the minimum allowable but may be increased up to 6.0m at council's discretion. To be read in conjunction with drawing RD-WDC-009 and RD-WDC-010.

---

**Whanganui District Council**

Whanganui Subdivisional Standard - Details

Vehicle Crossings

K.O.W. Sealed Footpath
CROSSING GRADIENTS TO BE AS PER FIG 3.9 NZS 4404:2004

ENTIRE VEHICLE CROSSING (ROAD TO BOUNDARY) TO BE CONCRETE

KERB AND CHANNEL PROFILE CONTINUES

4-6 DWELLING UNITS CROSSING PLAN

1:200

CONCRETE 20 MPA
FINISH U3 THEN U5 SOFT
BROOM AS PER NZS 3114 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE

TYPICAL SECTION

EXISTING CHANNEL DETAIL

SECTION A

NEW CHANNEL DETAIL

SECTION B

NOTE

THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCILS STANDARDS.
THE CROSSING WIDTH IS THE MINIMUM ALLOWABLE BUT MAY BE INCREASED UP TO 6m AT COUNCILS DISCRETION.
CROSSING WIDTHS GREATER THAN 6m REQUIRE RESOURCE CONSENT APPROVAL.
TO BE READ IN CONJUNCTION WITH DRAWING RD-WDC-009 AND RD-WDC-010
ENTIRE VEHICLE CROSSING (ROAD TO BOUNDARY) TO BE CONCRETE.

CROSSING GRADIENTS AS PER FIG 3.9
NZS 4404:2004

SAW PATH AND REINSTATE TO NEW CROSSING

PATH 1.5m WIDE MATCH FOOTPATH TO NEW CROSSING

3% CROSSFALL ON FOOTPATH

6000

7000

BOUNDARY

LINE

KERB LINE

PLAN
1:200

CONCRETE 20 MPA
FINISH V3 THEN V5 SOFT
BROOM AS PER NZS 3114 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE

CROSSINGS AT SAME GRADIENT/FALL AS EXISTING FOOTPATH

EXISTING KERB & CHANNEL BROKEN OUT AND NEW CROSSING FORMED THROUGH TO EDGE OF SEAL.

665 MESH REINFORCING
200 THICK CONCRETE

TYPICAL SECTION

NEW CROSSING / EXISTING KERB 1:100

NOTE
THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCILS STANDARDS.
CROSSING WIDTHS GREATER THAN 4m REQUIRE RESOURCE CONSENT APPROVAL.
TO BE READ IN CONJUNCTION WITH DRAWING RD-WDC-009
IF A CROSSING IS DEEMED TO BE COMMERCIAL LIGHT THE COUNCIL MAY PERMIT THE CONCRETE TO BE REDUCED BY 50mm IN DEPTH, BUT IS AT THE COUNCILS DISCRETION.

WHANGANUI DISTRICT COUNCIL

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS

COMMERCIAL - CONCRETE FOOTPATH

WHANGANUI DISTRICT COUNCIL

DESIGNER

CHECKED

APPROVED

CONSTRUCTION

RD-WDC-007

23/02/16

WHANGANUI DISTRICT COUNCIL

Te Kaunihere a Reke a Whanganui
CROSSING GRADIENTS
AS PER FIG 3.9
NZS 4404:2004

ENTIRE VEHICLE CROSSING
(ROAD TO BOUNDARY)
TO BE CONCRETE

CONCRETE 20 MPA
FINISH U3 THEN U5 SOFT
BROOM AS PER NZS 3114 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE

PLAN
1:200

CROSSINGS AT SAME GRADIENT
AS EXISTING FOOTPATH

EXISTING KERB & CHANNEL
BROKEN OUT AND NEW
CROSSING FORMED THROUGH
TO EDGE OF SEAL.

665 MESH
REINFORCING

200 THICK CONCRETE

TYPICAL SECTION

NEW CROSSING / EXISTING KERB

1:100

NOTE

THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCIL'S STANDARDS.
CROSSING WIDTHS GREATER THAN 6m REQUIRE RESOURCE CONSENT APPROVAL.

TO BE READ IN CONJUNCTION WITH DRAWING RD-WDC-009

WHANGANUI DISTRICT COUNCIL

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS

COMMERCIAL SEALED FOOTPATH
TYPICAL SECTION

MAXIMUM GRADE 1 IN 8
(FOR THE FIRST 5m)
MAXIMUM CHANGE OF GRADE:

LOW LEVEL FOOTPATH

1. A, B, C, & D refer to the gradients expressed either as a percentage or in degrees.
2. Low slung cars with ground effect features may not meet the criteria assumed in this design guide.
3. LTSA document Light Vehicle Sizes and Dimensions: Street Survey Results and Parking
   Space Requirements – Road and Traffic Standards Information No. 35 (June 1994)
   contains more information about the 90th and 99th percentile vehicles.
4. Buses are permitted lower clearance value of (A+B) of 6% or 3.4°.

BASED ON 90th PERCENTILE CAR AS AT 1990.

(REFER TO RD-WDC-009)

GUIDE FOR MAXIMUM BREAKOVER ANGLES
FOR VEHICLE CROSSINGS

Figure 3.9 – Maximum breakover angles for vehicular access to property

WHANGANUI DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

Scales: AS NEEDED

Int. Date

Designed: Approved

Vehicle Crossings

Maximum Breakover Angles for Vehicle Crossings

9/1367
TYPICAL PLAN SINGLE ENTRANCEWAY

TYPICAL DOUBLE ENTRANCEWAY

NOTE:
CULVERTS TO BE RCRRJ
MIN 300 DIA
RURAL ROW 2-6 DWELLINGS

5200

ROAD BOUNDARY

CULVERT (MIN 300Ø) POSITIONED TO SUIT SIDE DRAIN

EDGE OF CARRIAGeway

9600 (MIN)

FENCE ON

SIDE DRAIN

METAL EDGE SEAL EDGE

DEPTH OF BACKFILL VARIES (MIN 150mm FLEXIBLE PAVING) (MIN 100mm CONCRETE)

PRECAST CONCRETE

HEADWALLS AT INLET AND OUTLET (TYPICAL REQUIREMENT)

500

HESSIAN BAGGED CONCRETE HEADWALLS MAY BE USED FOR CULVERTS UP TO 375 DIAMETER

CULVERT INSTALLATION

WHANGANUI DISTRICT COUNCIL

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS

RURAL RESIDENTIAL

23/02/16

RD-WDC-013

DO NOT SCALE: P IN DOUBT: AS IS

WHANGANUI DISTRICT COUNCIL

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS

RURAL RESIDENTIAL

23/02/16

RD-WDC-013
CONSTRUCTION
23/02/16

NOTE:
REFER TO NZS4404:2010 FOR STREET TREE PLANTING CLEARANCES

PLAN OF TYPICAL ROAD

WHANGANUI DISTRICT COUNCIL
23/02/16
RD-WDC-015

TYPICAL ROAD CROSS SECTION
TYPICAL CROSS SECTION FOR RIGHT OF WAYS

SCALE 1:25

ROAD RESERVE WIDTH
(1-3 LOTS 3.0m, 4-6 LOTS 6.0m)

ROAD WIDTH
(1-3 LOTS 3.0m, 4-6 LOTS 5.0m)

0.5m APPROX

BOUNDARY

BOUNDARY

STANDARD KERB AND CHANNEL

NEW 30mm THICK AC OR CHIP SEAL

3% CROSSFALL

NIB KERB AND CHANNEL

200mm BASECOURSE MATERIAL

150mm MINIMUM

WHANGANUI DISTRICT COUNCIL

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS

TYPICAL R.O.W. CROSS SECTION

CONSTRUCTION

DATE 23/02/16

WHANGANUI DISTRICT COUNCIL

Scales: AS NOTED

DESIGNED

CHECKED

APPROVED

INCH

INCH

1/100

1/100

1/100

1/100

WHANGANUI NZ

WHANGANUI NZ
# Clearances & Separations for Telecom & Electricity

<table>
<thead>
<tr>
<th>Location</th>
<th>Pressure</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carriageway (Local Authority)</td>
<td>Low &amp; Medium</td>
<td>600mm</td>
</tr>
<tr>
<td>Carriageway (State Highway)</td>
<td>Intermediate</td>
<td>900mm</td>
</tr>
<tr>
<td>Other</td>
<td>Low &amp; Medium</td>
<td>1000mm</td>
</tr>
<tr>
<td>Private Property</td>
<td>Intermediate</td>
<td>900mm</td>
</tr>
</tbody>
</table>

Max Depth of Cover to be 1000mm unless specifically stated. Minimum clearance under existing service to be 150mm. Minimum cover under open channel or culvert to be 1000mm.

## Depth of Cover - Gas

### Typical Duct Section

- **Footpath**: 800mm from kerb
- **Gas**: 600mm cover
- **Telecommunication**: 900mm cover
- **Water**: 900mm cover

### Typical Cross Section - Services

<table>
<thead>
<tr>
<th>Key</th>
<th>Amendments</th>
<th>Date</th>
<th>Initial</th>
<th>Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### WHANGANUI DISTRICT COUNCIL

Subdivisional Standard - Details

**CONSTRUCTION**

- **Sheet No**: 1
- **Date**: 23/02/16
- **Code**: RD-WDC-017
- **Rev**: AB 011367
CONSTRUCTION

23/02/16

LOT 1

TRANSFORMER

BOUNDARY

2m

LOT 2

SERVICES

FOOTPATH

BEPH

ROADWAY

WHANGANUI DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

CONSTRUCTION

23/02/16

WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

TRANSFORMER LOCATION (PREFERRED)

Scales
NTS

Designed
Date

Drawn

Checked

Amendments
Date
Initial
Approved

RD-WDC-018

AB

011367
CONCRETE 20 MPA
FINISH U3 THEN U5 SOFT
BROOM AS PER NZS 3114 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE

150mm COMPACTED BASECOURSE

100mm COMPACTED FILL

75 THICK CONCRETE

TYPICAL SECTION
1:20
LIPLESS CROSSING
WHERE FOOTPATH IS SEPARATE FROM KERB

LIPLESS CROSSING
WHERE FOOTPATH IS NEXT TO KERB

SECTION THROUGH LIPLESS CROSSING

CONCRETE 20 MPA
FINISH U3 THEN US SOFT
BROOM AS PER NZS 3114 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE
23/02/16

NOTE

1. Basecourse under kerb to be a min. of 150mm

2. Formation level of kerb basecourse to match formation level of road.

CONCRETE STRENGTH 20MPa

STANDARD KERB & CHANNEL

1:20

MOUNTABLE KERB & CHANNEL

1:20

Whanganui District Council