

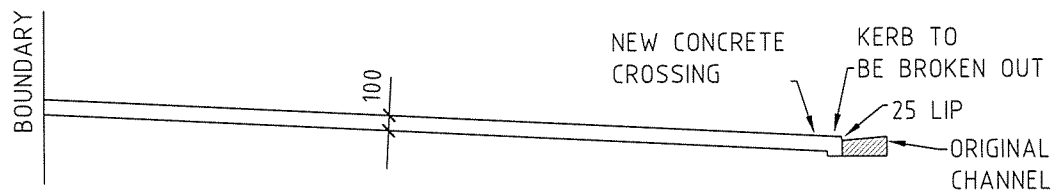
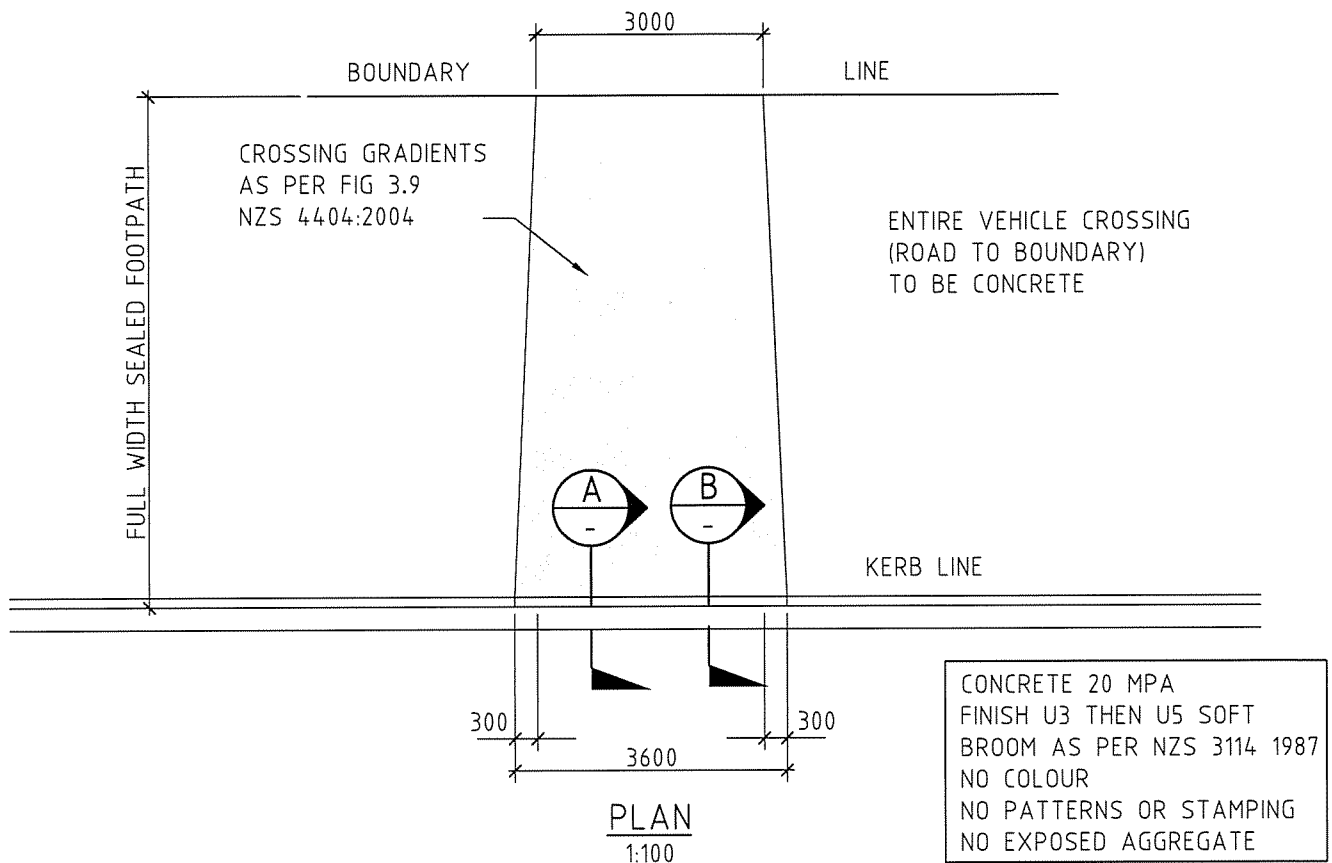
NOTE

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

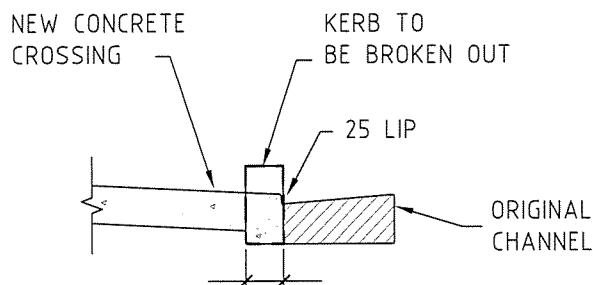


WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED			WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS		Status Stamp CONSTRUCTION
DESIGNED	INIT	DATE			Date Stamp 23/02/16
DRAWN			VEHICLE CROSSINGS URBAN RESIDENTIAL - CONCRETE FOOTPATH		Sheet No.
CHECKED					Rev.
APPROVED					RD-WDC-001 AB

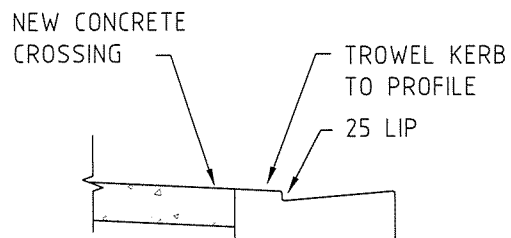


TYPICAL SECTION



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
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED		
DESIGNED	INIT	DATE
DRAWN		
CHECKED		
APPROVED		

WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS
URBAN RESIDENTIAL - SEALED FOOTPATH

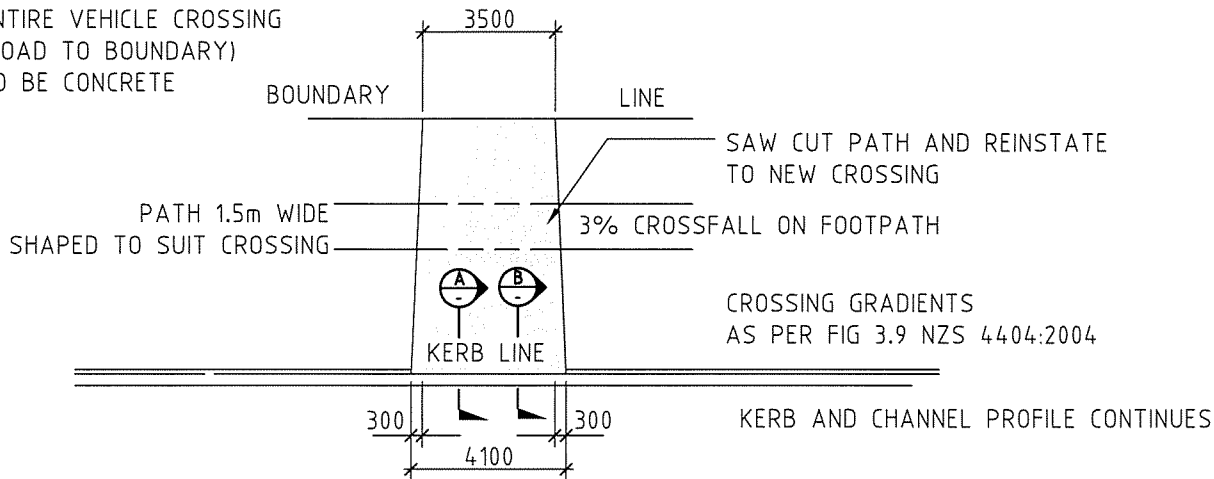
Status Stamp	
CONSTRUCTION	
Date Stamp	23/02/16
Sheet No.	Rev.
RD-WDC-002	AB

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A4

SERVER : WHANGANUI (NZWANIS01) TAB/DWG : TAB-DWG

ENTIRE VEHICLE CROSSING
(ROAD TO BOUNDARY)
TO BE CONCRETE

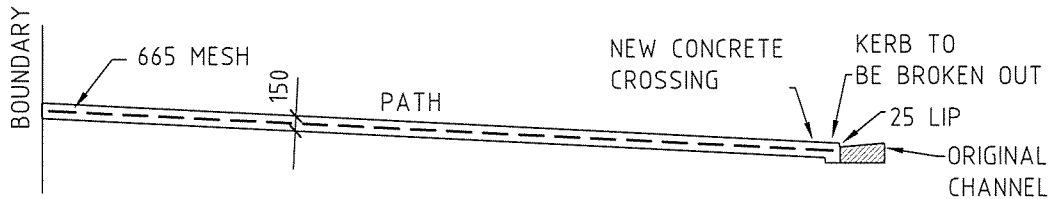


2-3 DWELLING UNITS

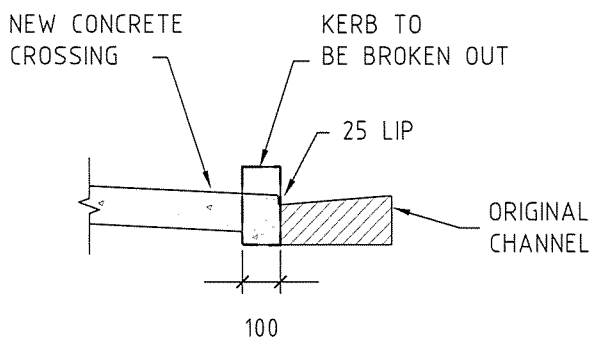
CROSSING PLAN

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



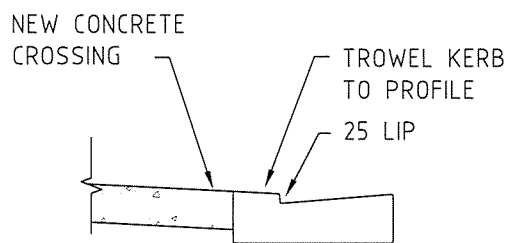
TYPICAL SECTION



EXISTING CHANNEL DETAIL

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



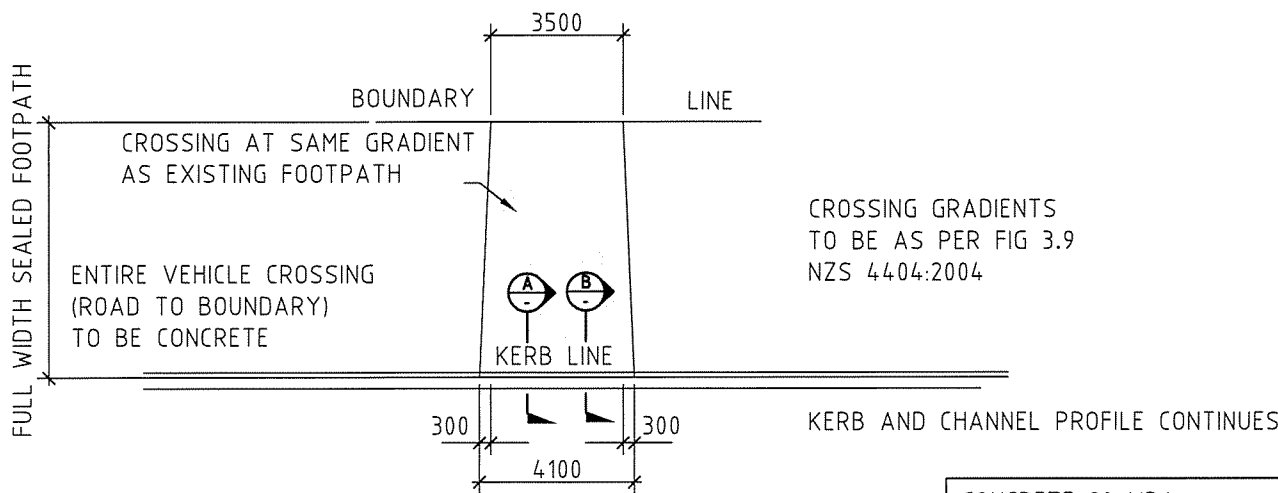
WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED		
	INIT	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

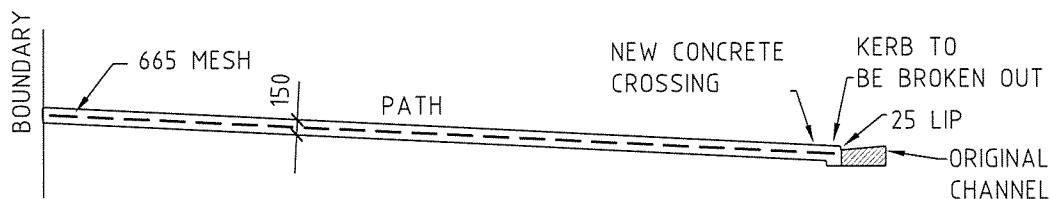
VEHICLE CROSSINGS
R.O.W. CROSSING CONCRETE FOOTPATH

Status Stamp	
CONSTRUCTION	
Date Stamp 23/02/16	
Sheet No.	Rev.
RD-WDC-003	AB

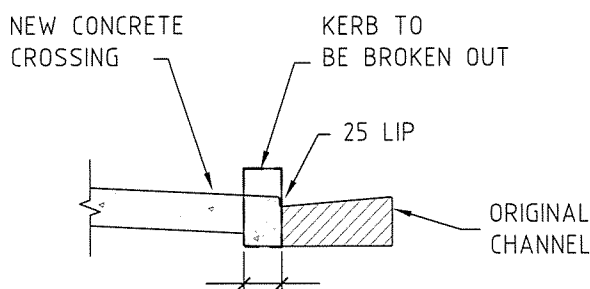


2-3 DWELLING UNITS
CROSSING PLAN
1:200

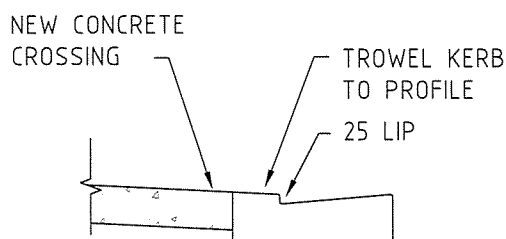
CONCRETE 20 MPA
FINISH U3 THEN U5 SOFT
BROOM AS PER NZS 3114 1987
NO COLOUR
NO PATTERNS OR STAMPING
NO EXPOSED AGGREGATE



TYPICAL SECTION



EXISTING CHANNEL DETAIL
1:20
SECTION A



NEW CHANNEL DETAIL
1:20
SECTION B

NOTE

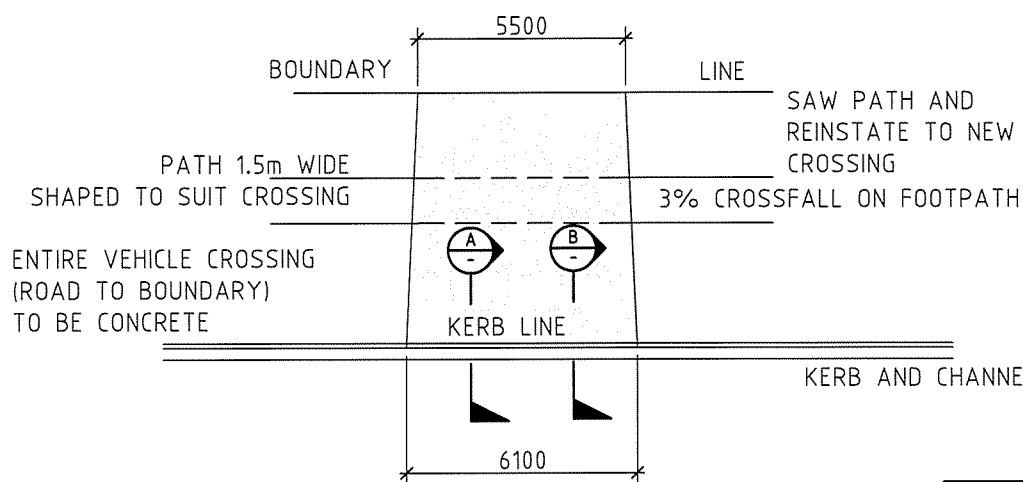
THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCILS STANDARDS.
THE CROSSING WIDTH IS THE MINIMUM ALLOWABLE BUT MAY BE INCREASED UP TO 6.0m AT COUNCILS DISCRETION.
TO BE READ IN CONJUNCTION WITH DRAWING RD-WDC-009 AND RD-WDC-010



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED			WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS	Status Stamp CONSTRUCTION	
	INIT	DATE		Date Stamp 23/02/16	
DESIGNED			VEHICLE CROSSINGS R.O.W. SEALED FOOTPATH	Sheet No.	
DRAWN				Rev.	
CHECKED				RD-WDC-004	
APPROVED				AB	

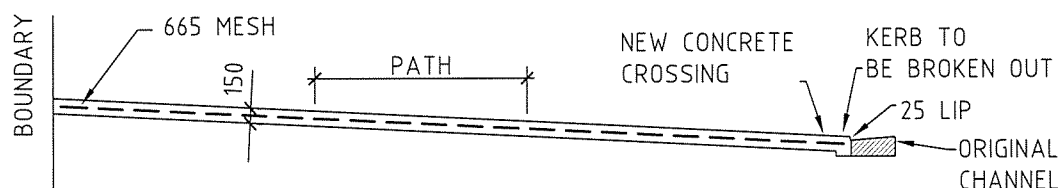
CROSSING GRADIENTS
TO BE AS PER FIG 3.9
NZS 4404:2004



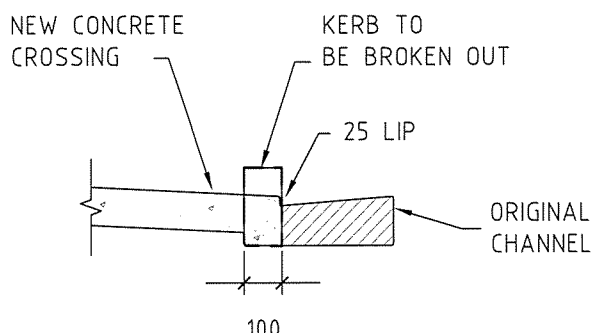
4-6 DWELLING UNITS CROSSING PLAN

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



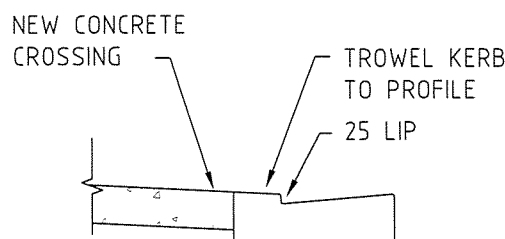
TYPICAL SECTION



EXISTING CHANNEL DETAIL

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 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

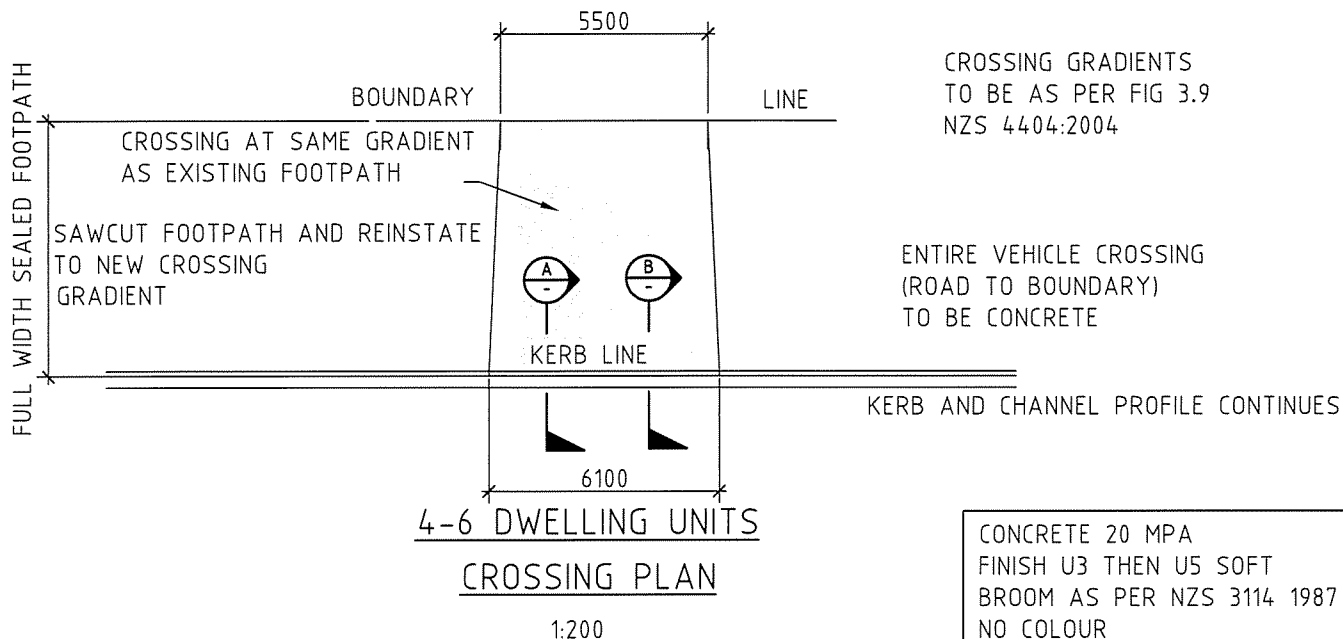


WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

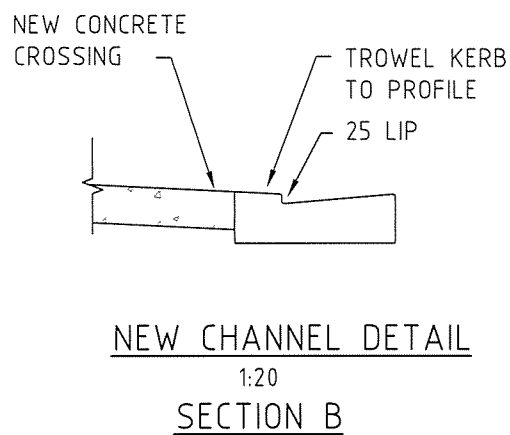
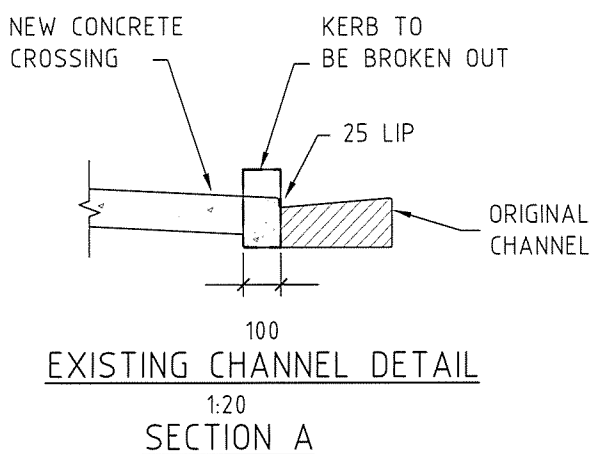
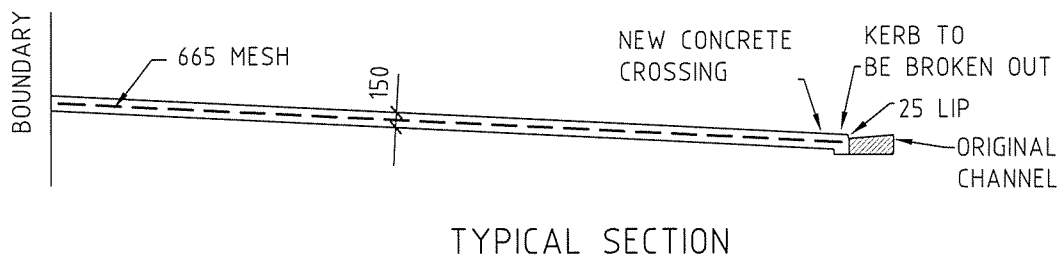
SCALES : AS NOTED		
INIT	DATE	
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS
VEHICLE CROSSINGS
RIGHT OF WAY CONCRETE FOOTPATH

Status Stamp	CONSTRUCTION
Date Stamp	23/02/16
Sheet No.	Rev.
RD-WDC-005	AB



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



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



WHANGANUI DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED		
	INIT	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

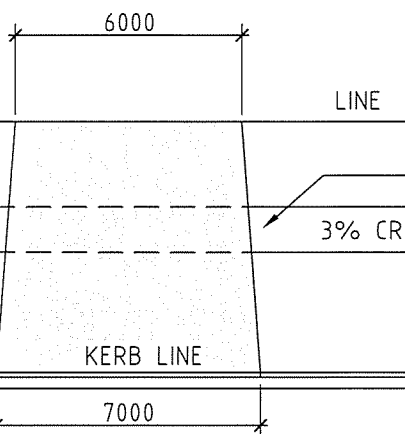
WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS
VEHICLE CROSSINGS
RIGHT OF WAY SEALED FOOTPATH

Status Stamp	CONSTRUCTION
Date Stamp	23/02/16
Sheet No.	Rev.
RD-WDC-006	AB

ENTIRE VEHICLE CROSSING
(ROAD TO BOUNDARY)
TO BE CONCRETE

PATH 1.5m WIDE
MATCH FOOTPATH
TO NEW CROSSING

BOUNDARY



CROSSING GRADIENTS
AS PER FIG 3.9
NZS 4404:2004

SAW PATH AND REINSTATE TO NEW
CROSSING

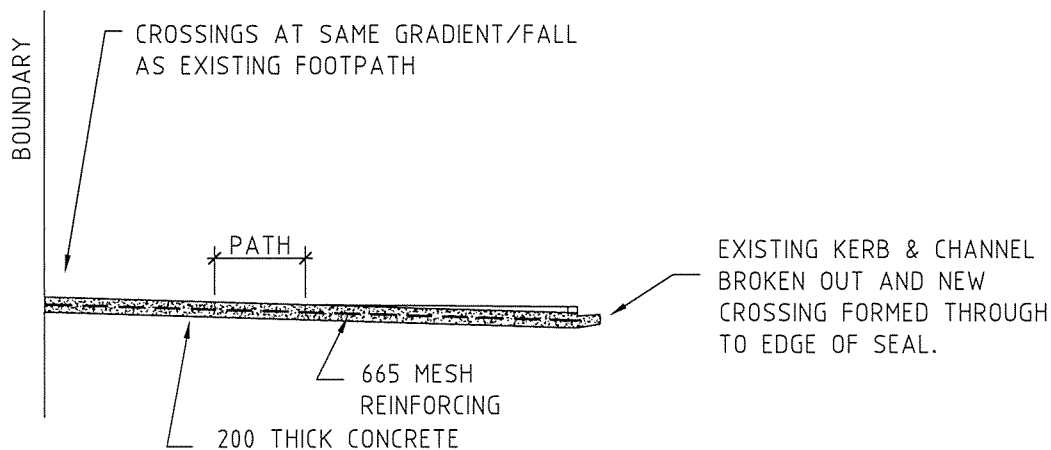
3% CROSSFALL ON FOOTPATH

KERB LINE

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

NEW CROSSING / EXISTING KERB

1:100

NOTE

THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCILS STANDARDS.
CROSSING WIDTHS GREATER THAN 6m 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
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED

	INIT	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS
COMMERCIAL - CONCRETE FOOTPATH

Status Stamp

CONSTRUCTION

Date Stamp

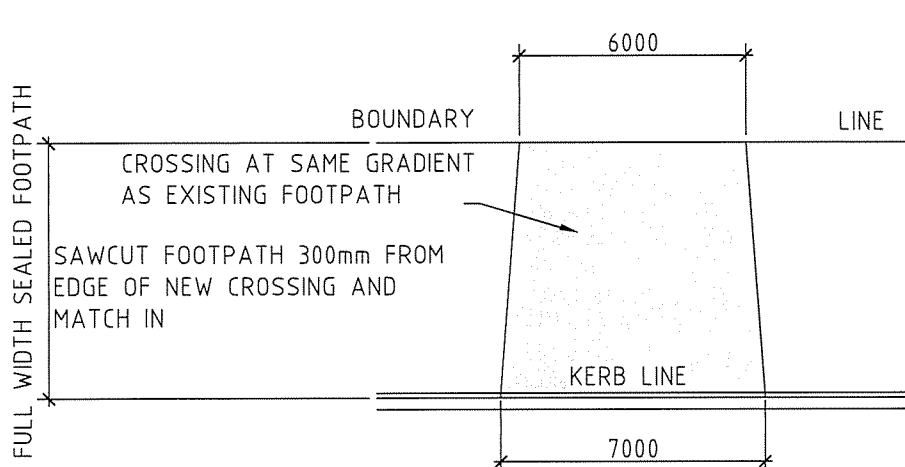
23/02/16

Sheet No.

Rev.

RD-WDC-007

AB



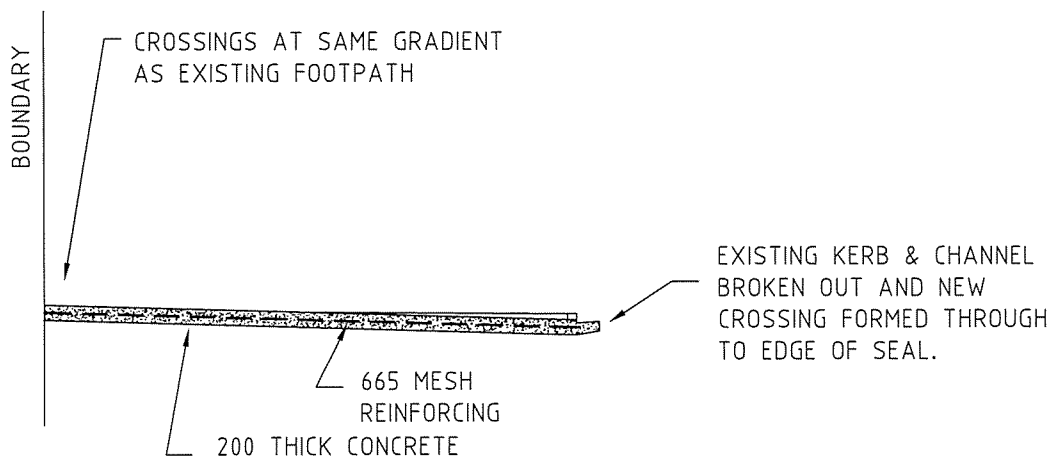
CROSSING GRADIENTS
AS PER FIG 3.9
NZS 4404:2004

ENTIRE VEHICLE CROSSING
(ROAD TO BOUNDARY)
TO BE CONCRETE

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

NEW CROSSING / EXISTING KERB

1:100

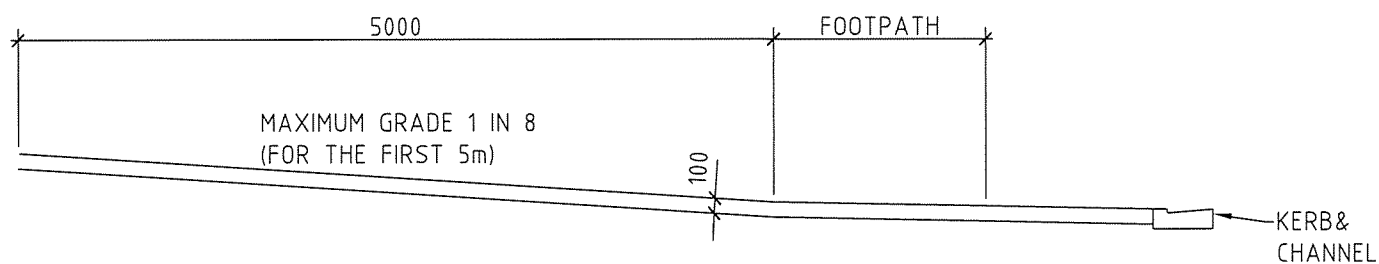
NOTE

THIS DRAWING SHOWS AN ACCEPTABLE SOLUTION MEETING COUNCILS STANDARDS.
CROSSING WIDTHS GREATER THAN 6m REQUIRE RESOURCE CONSENT APPROVAL.
TO BE READ IN CONJUNCTION WITH DRAWING RD-WDC-009



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED			WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS		Status Stamp CONSTRUCTION	
DESIGNED	INIT	DATE			Date Stamp	23/02/16
DRAWN			VEHICLE CROSSINGS COMMERCIAL SEALED FOOTPATH		Sheet No.	RD-WDC-008
CHECKED					Rev.	AB
APPROVED						



TYPICAL SECTION



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED		
	INIT	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

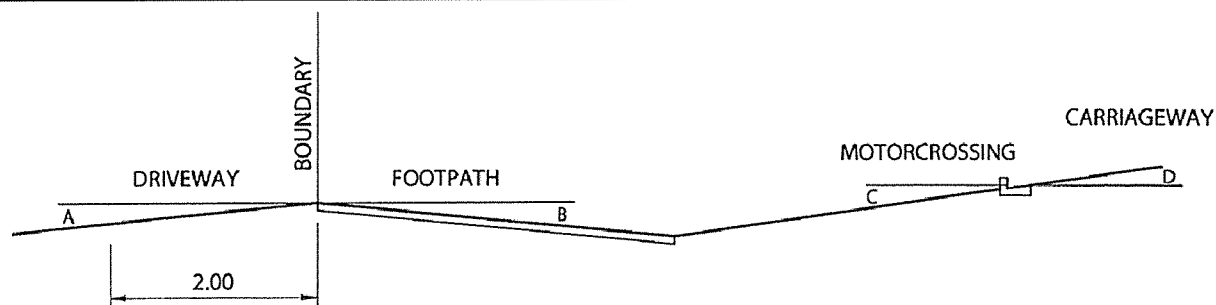
WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

MAXIMUM CHANGE OF GRADE
FOR URBAN VEHICLE CROSSING

Status Stamp
CONSTRUCTION

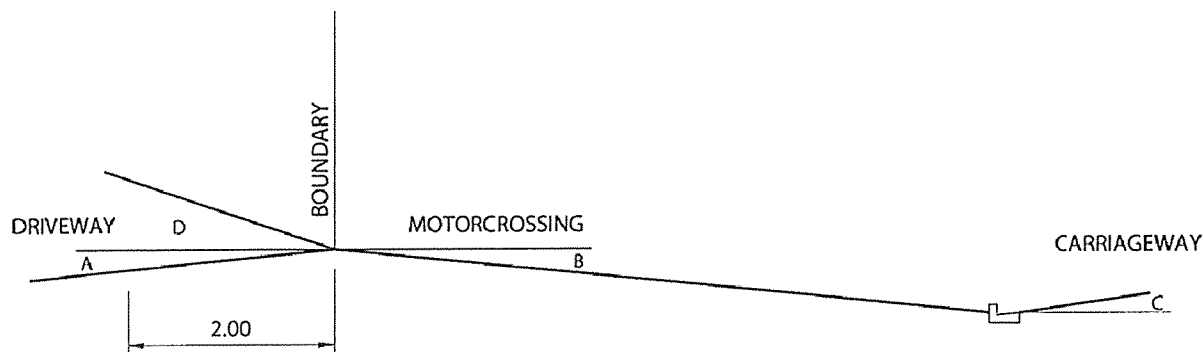
Date Stamp
23/02/16

Sheet No.	Rev.
RD-WDC-009	AB



MAXIMUM CHANGE OF GRADE: $A + B \leq 10\%$ (or 5.7°)
 $C - D \leq 10\%$ (or 5.7°)
 $B + C \leq 17\%$ (or 9.6°)

LOW LEVEL FOOTPATH



MAXIMUM CHANGE OF GRADE: $A + B \leq 10\%$ (or 5.7°)
 $D - B \leq 17\%$ (or 9.6°)
 $B + C \leq 17\%$ (or 9.6°)

STANDARD FOOTPATH

NOTE -

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)

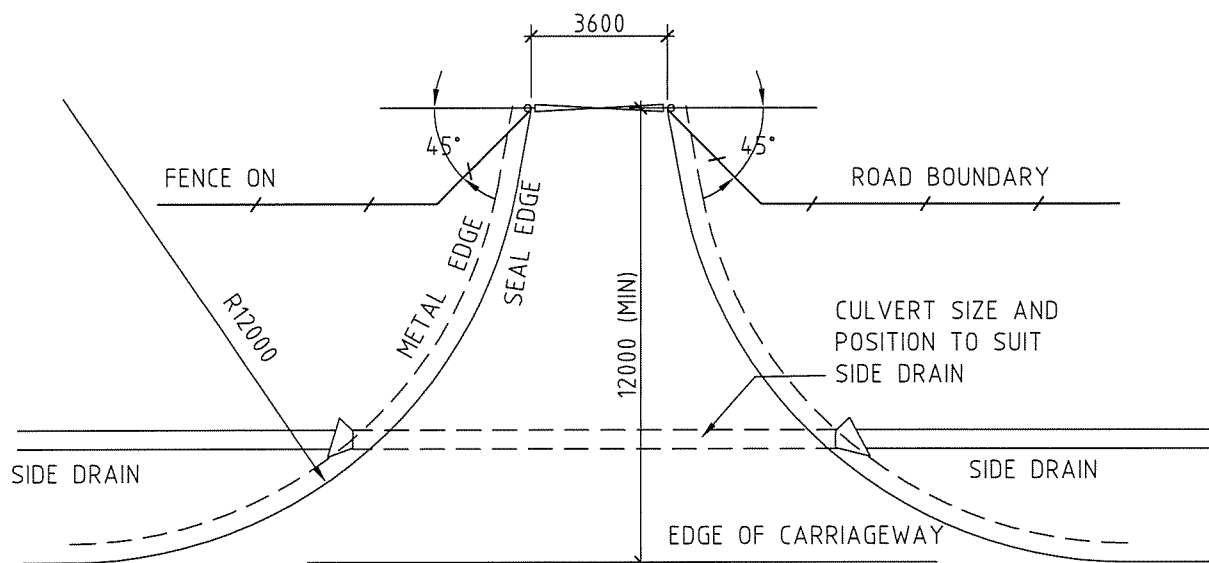
GUIDE FOR MAXIMUM BREAKOVER ANGLES FOR VEHICLE CROSSINGS



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

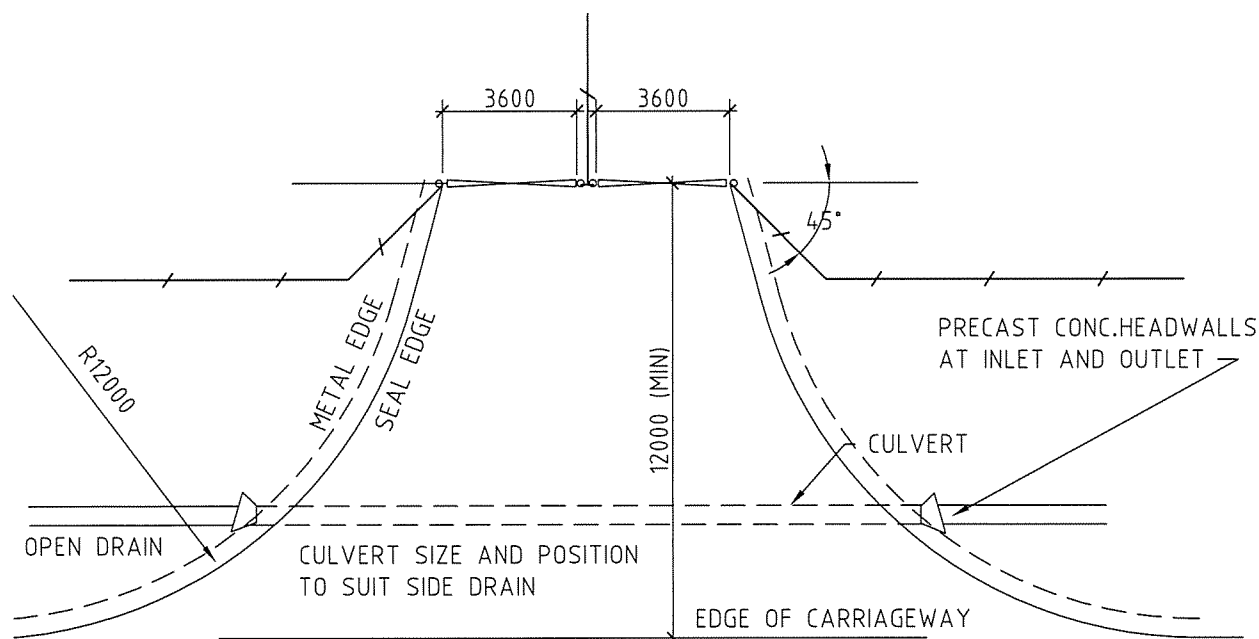
Figure 3.9 – Maximum breakover angles for vehicular access to property

SCALES :			AS NOTED	WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS		Status Stamp CONSTRUCTION	
	INIT	DATE				Date Stamp 23/02/16	
DESIGNED				VEHICLE CROSSINGS MAXIMUM BREAKOVER ANGLES FOR VEHICLE CROSSINGS			
DRAWN							
CHECKED							
APPROVED							
						Sheet No. RD-WDC-010	Rev. AB



TYPICAL PLAN SINGLE ENTRANCEWAY

1:200



NOTE:
CULVERTS TO BE RCRRJ
SIZED TO SUIT LOCATION

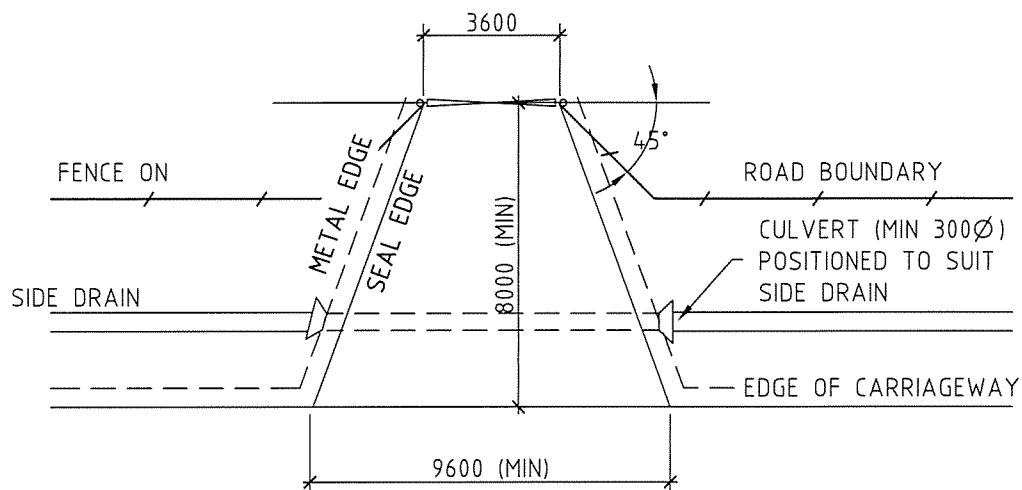
TYPICAL DOUBLE ENTRANCEWAY

1:200



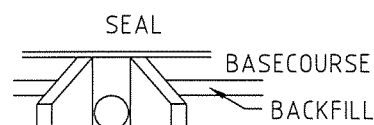
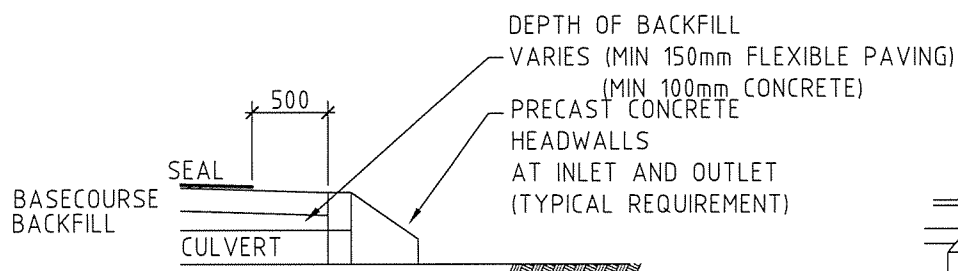
WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED			WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS		Status Stamp CONSTRUCTION	
	INIT	DATE			Date Stamp 23/02/16	
DESIGNED			VEHICLE CROSSINGS RURAL HEAVY VEHICLE		Sheet No. RD-WDC-011	
DRAWN					Rev. AB	
CHECKED						
APPROVED						



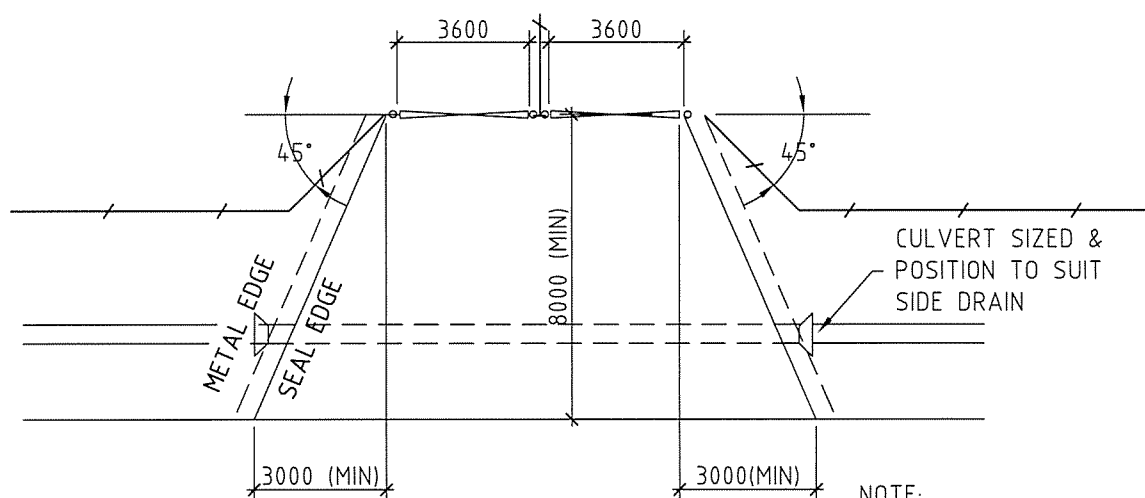
TYPICAL PLAN SINGLE ENTRANCEWAY

1:200



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

CULVERT INSTALLATION



TYPICAL DOUBLE ENTRANCEWAY

1:200

NOTE:
CULVERTS TO BE RCRRJ
MIN 300 DIA



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : SCALES

	INIT	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS

VEHICLE CROSSINGS
RURAL RESIDENTIAL

Status Stamp

CONSTRUCTION

Date Stamp

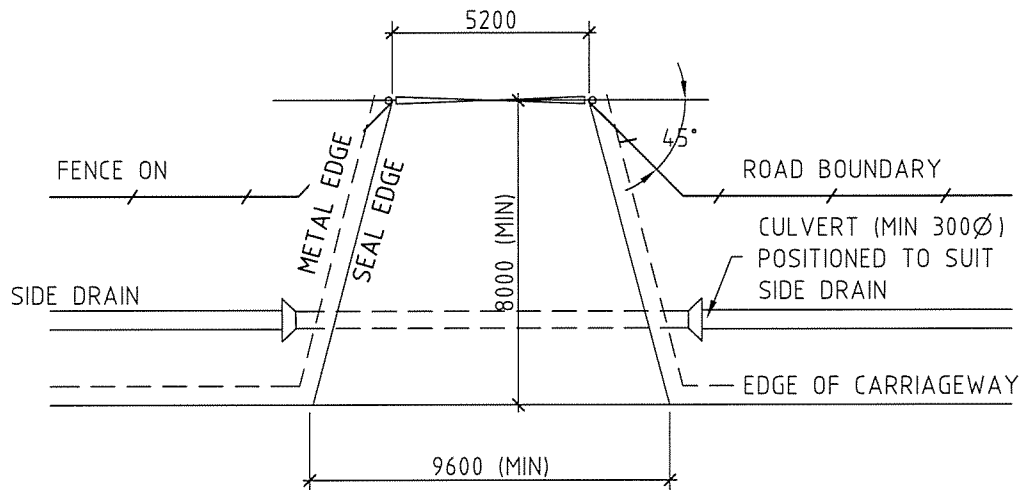
23/02/16

Sheet No.

RD-WDC-012

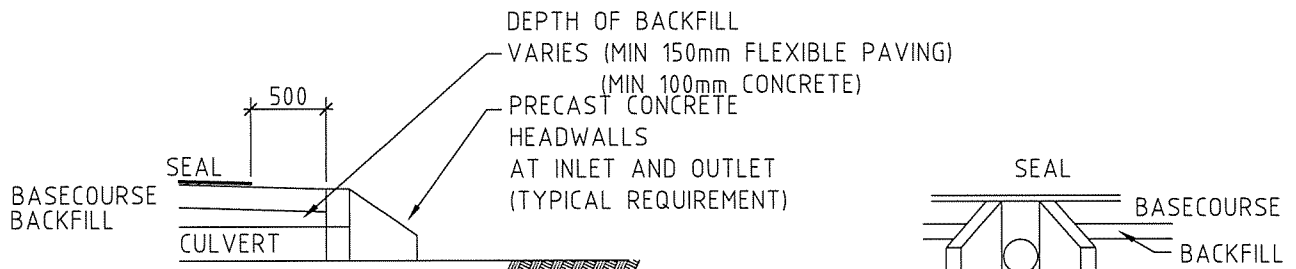
Rev.

AB



RURAL ROW 2-6 DWELLINGS

1:200



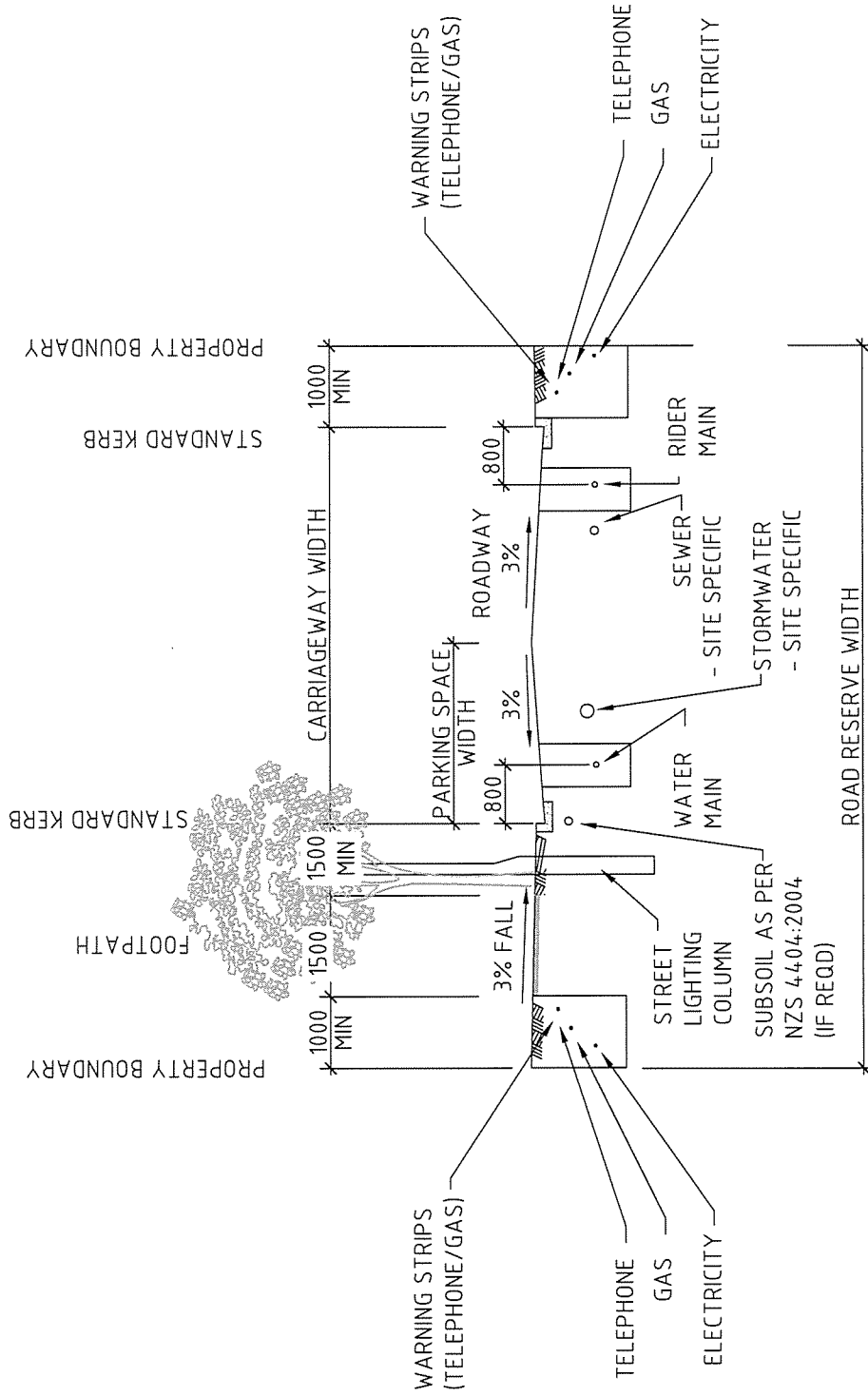
HESSIAN BAGGED CONCRETE HEADWALLS MAY BE USED FOR CULVERTS UP TO 375 DIAMETER

CULVERT INSTALLATION



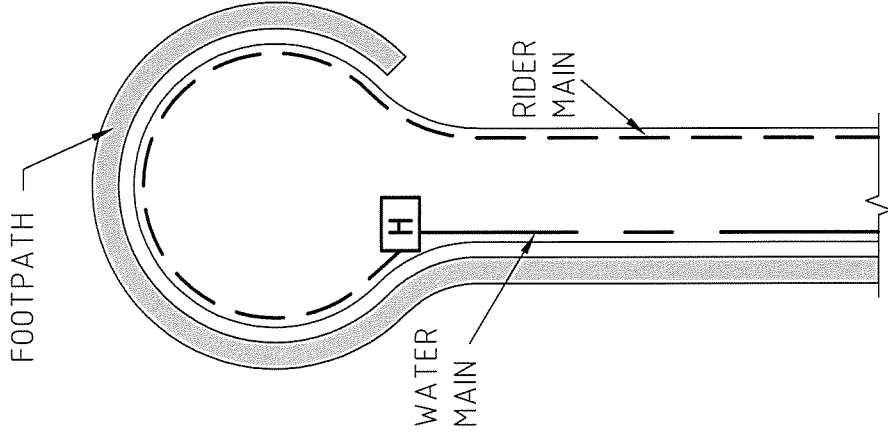
WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : SCALES			WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS		Status Stamp	
DESIGNED	INIT	DATE			CONSTRUCTION	
DRAWN			VEHICLE CROSSINGS RURAL RESIDENTIAL		Date Stamp	23/02/16
CHECKED					Sheet No.	Rev.
APPROVED					RD-WDC-013	AB



NOTE:

REFER TO NZS4404:2010 FOR STREET
TREE PLANTING CLEARANCES

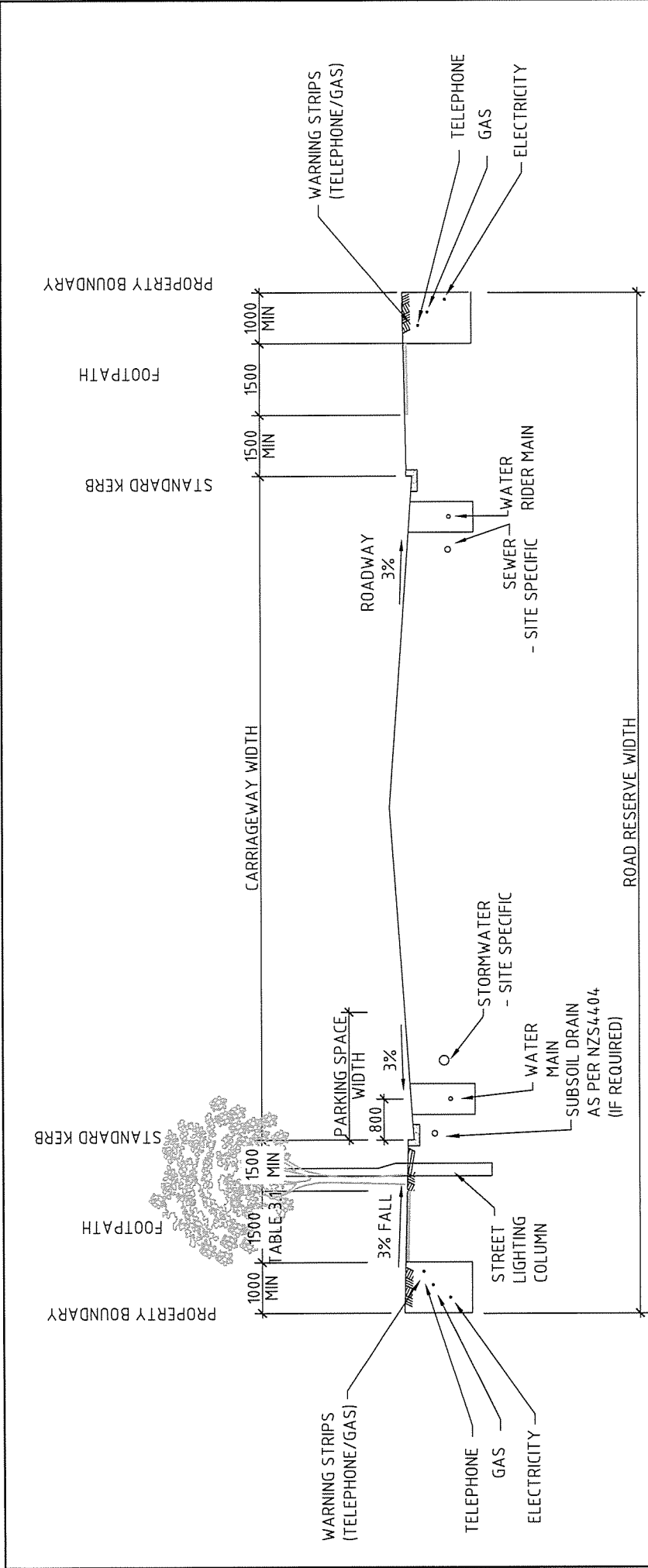


PLAN CUL DE SAC HEAD



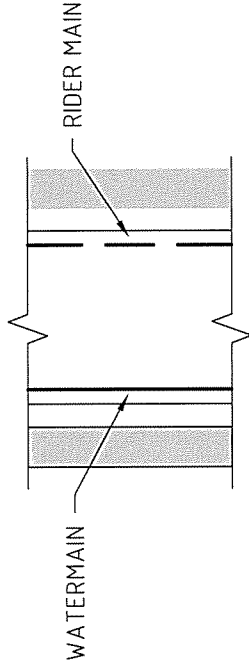
WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

Status Stamp				CONSTRUCTION	
WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS				Date Stamp	23/02/16
TYPICAL CROSS SECTION - CUL DE SAC				Rev.	AB
AMENDMENTS				RD-WDC-014	011367



NOTE:

REFER TO NZS4404:2010 FOR STREET
TREE PLANTING CLEARANCES



PLAN OF TYPICAL ROAD
NTS



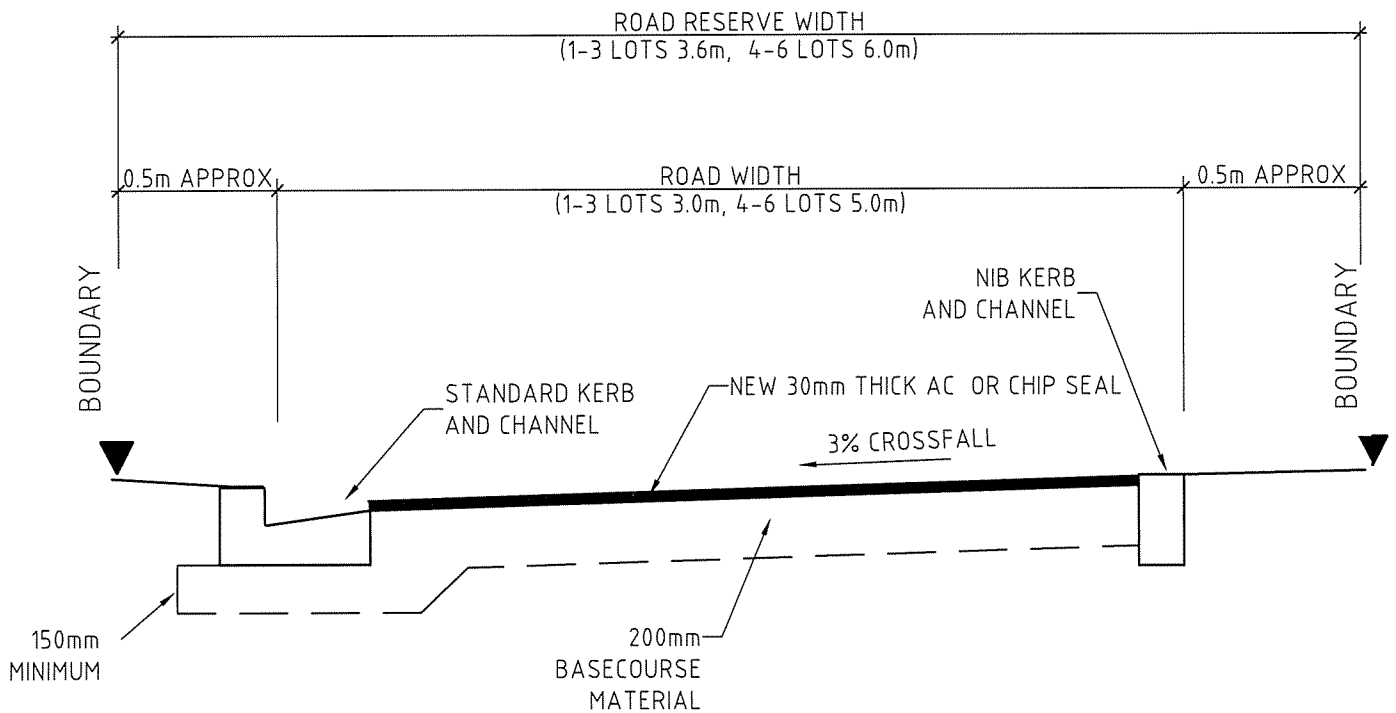
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WHANGANUI DISTRICT COUNCIL		WHANGANUI SUBDIVISIONAL STANDARD - DETAILS	
TYPICAL ROAD CROSS SECTION		Date Stamp	23/02/16
REV		Sheet No.	RD-WDC-015
AMENDMENTS		Rev.	AB

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A4

TAB/DWG : TAB-DWG

SERVER: WHANGANUI (NZWAN1S01)



TYPICAL CROSS SECTION FOR RIGHT OF WAYS
SCALE 1 : 25



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

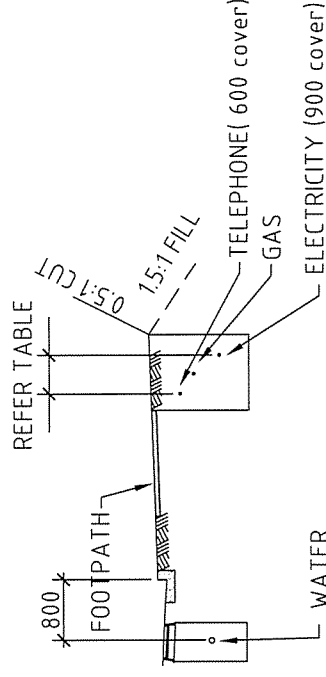
SCALES : AS NOTED			WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS		Status Stamp CONSTRUCTION	
DESIGNED	INIT	DATE			Date Stamp	23/02/16
DRAWN			VEHICLE CROSSINGS		Sheet No.	Rev.
CHECKED			TYPICAL R.O.W. CROSS SECTION		RD-WDC-016	AB
APPROVED						

	WITHOUT SPECIAL PROTECTION	WITH 50mm CONC. SLAB CROSSING CLEARANCE	WITH 50mm CONC. SLAB PARALLEL SEPARATION
230V - 400V NEUTRAL SCREENED OR ARMoured	150mm	50mm	50mm
230V-400V CABLES OTHER THAN NEUTRAL SCREENED OR ARMoured	450mm	50mm	450mm
11kV-33kV CABLES SINGLE CORE OR MULTICORE	450mm	150mm	450mm

CLEARANCES & SEPARATIONS FOR TELECOM & ELECTRICITY

MAXIMUM 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



WATER MAIN LOCATION
COMMERCIAL/INDUSTRIAL : 800mm ROAD SIDE OF KERB
RESIDENTIAL : 800mm FROM FACE OF KERB
DEPTH OF COVER : MAIN :900mm RIDER 750mm

REFER TABLE

TYPICAL DUCT SECTION



WHANGANUI
DISTRICT COUNCIL

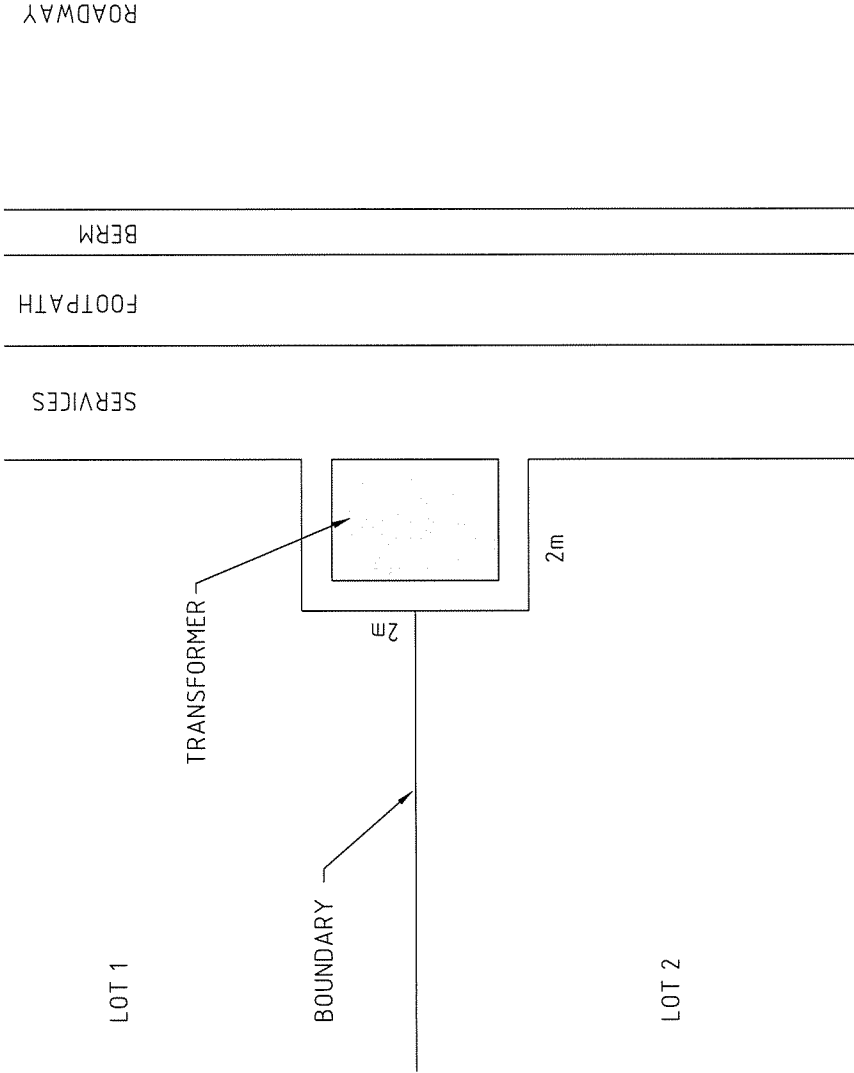
[illegible]

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A4

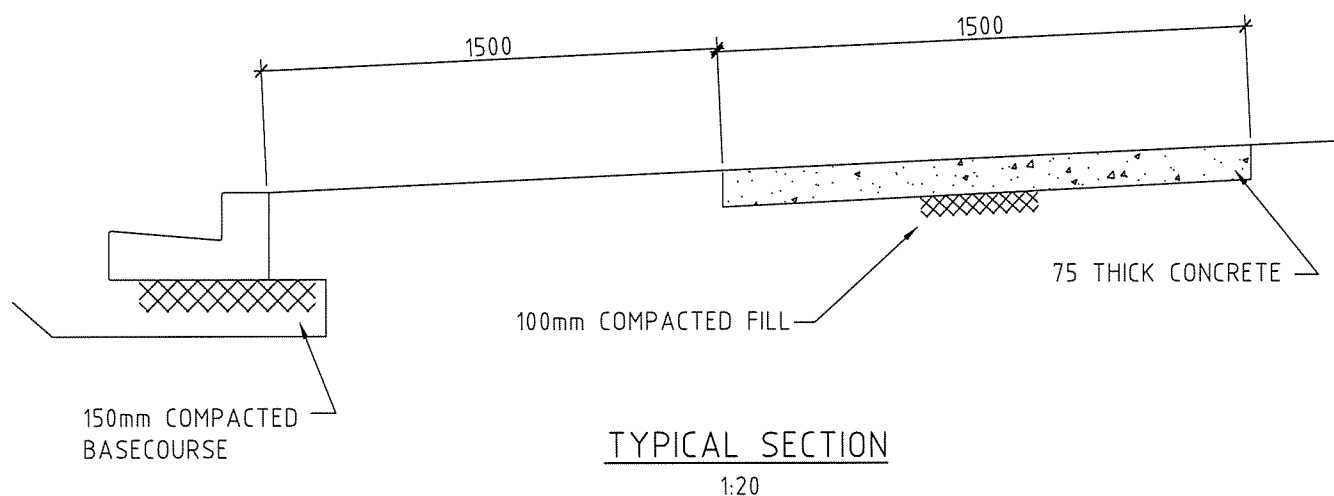
TAB/DWG : TAB-DWG

SERVER : SERVER



WHANGANUI DISTRICT COUNCIL WHANGANUI SUBDIVISIONAL STANDARD - DETAILS				Status Stamp	
TRANSFORMER LOCATION (PREFERRED)				CONSTRUCTION	
				Date Stamp	23/02/16
				Sheet No.	RD-WDC-018
REV	AMENDMENTS	DATE	INITIAL	Rev	
				AB	

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

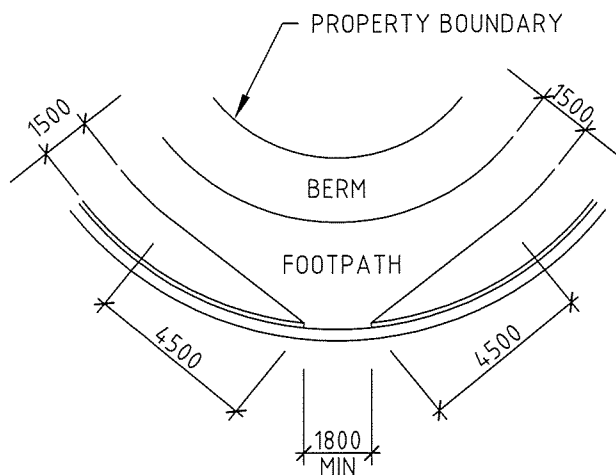


WHANGANUI DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED		
	INIT	DATE
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS
FOOTPATH CONSTRUCTION

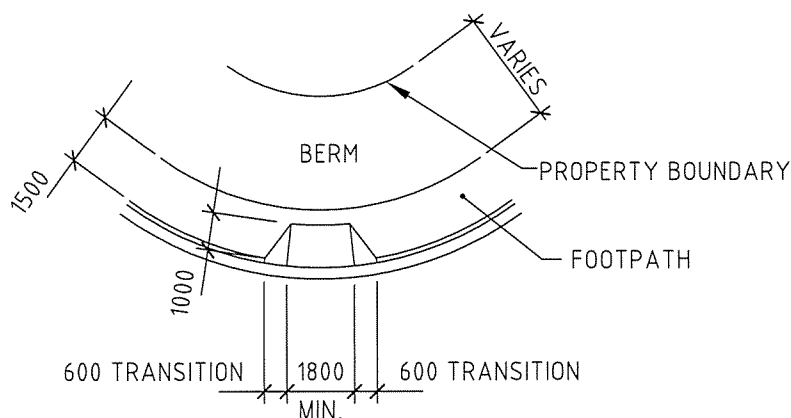
Status Stamp CONSTRUCTION	
Date Stamp 23/02/16	
Sheet No. RD-WDC-019	Rev. AB



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

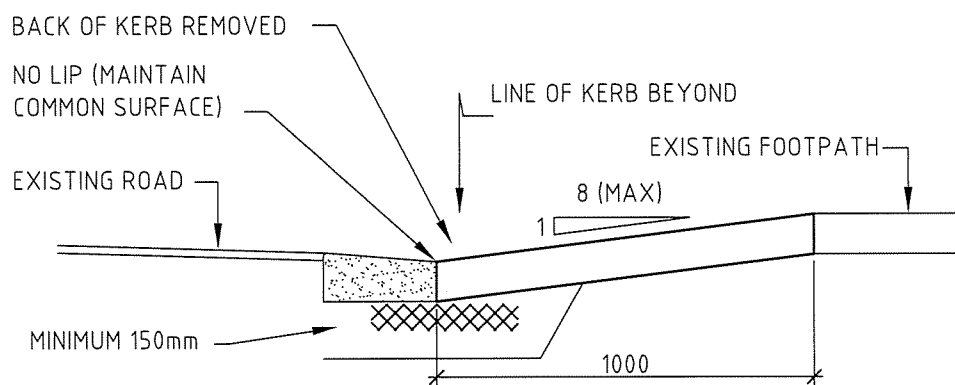
LIPLESS CROSSING

SCALE 1 : 200
(WHERE FOOTPATH IS SEPARATE FROM KERB)



LIPLESS CROSSING

SCALE 1 : 200
(WHERE FOOTPATH IS NEXT TO KERB)



SECTION THROUGH LIPLESS CROSSING

SCALE 1 : 20

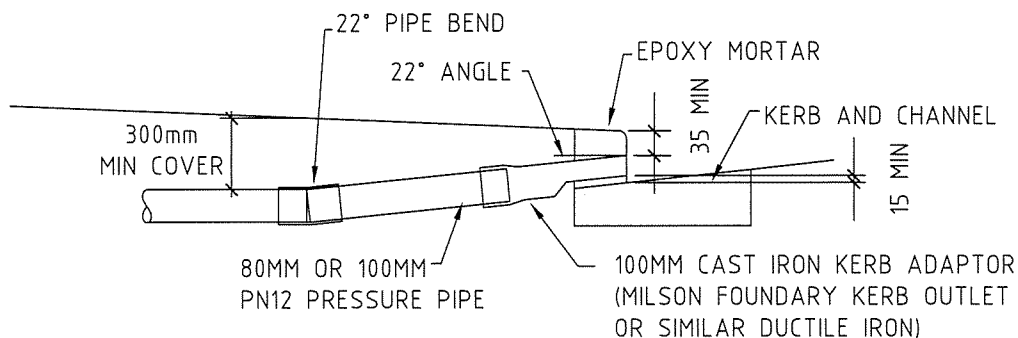


WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

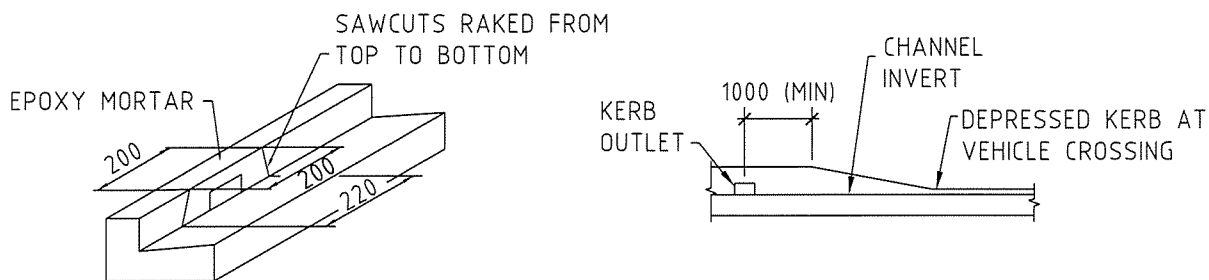
SCALES : AS NOTED		
DESIGNED	INIT	DATE
DRAWN		
CHECKED		
APPROVED		

WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL PLANS
MOBILITY CROSSING RAMPS

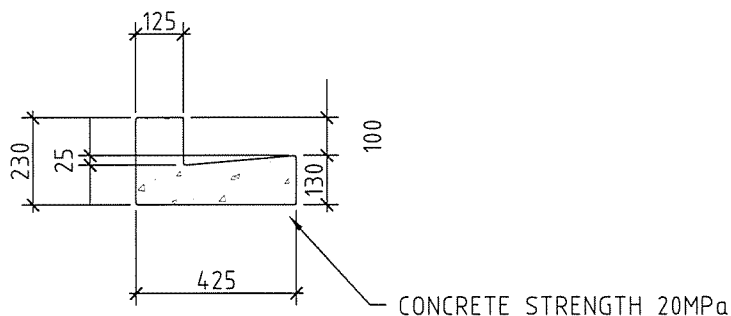
Status Stamp	CONSTRUCTION	
Date Stamp	23/02/16	
Sheet No.	RD-WDC-020	Rev.
		AB



KERB ENTRY



VERTICAL KERB

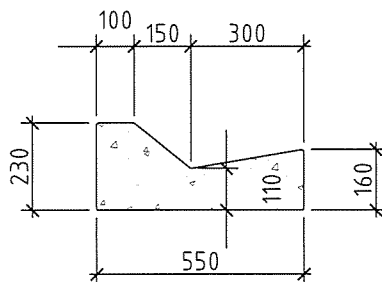


NOTE

1. BASECOURSE UNDER KERB TO BE A MIN. OF 150mm
2. FORMATION LEVEL OF KERB BASECOURSE TO MATCH FORMATION LEVEL OF ROAD.

STANDARD KERB & CHANNEL

1:20



MOUNTABLE KERB & CHANNEL

1:20



WHANGANUI DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

SCALES : AS NOTED		
INIT	DATE	
DESIGNED		
DRAWN		
CHECKED		
APPROVED		

WHANGANUI DISTRICT COUNCIL
WHANGANUI SUBDIVISIONAL STANDARD - DETAILS
KERB AND CHANNEL DETAILS

Status Stamp	CONSTRUCTION	
Date Stamp	23/02/16	
Sheet No.	RD-WDC-021	Rev. AB