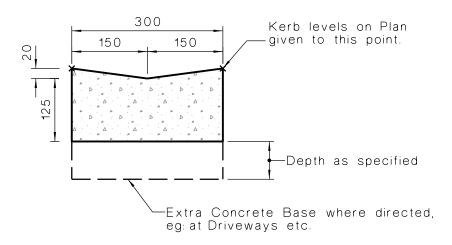


NOTES:

- Concrete strength to be 20MPa at 28 days.
 Concrete Finish to conform with Class U3 of NZS3114.
 Limits of excavation to be sawcut if path and/or carriageway is not to be reconstructed.

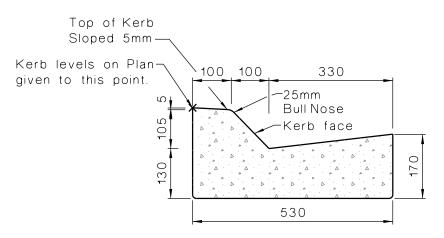


BACK OF PATH AND INTERPATH CHANNEL

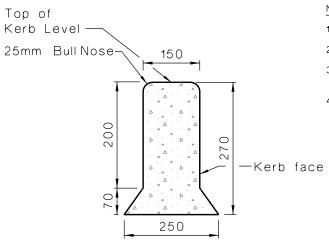


KERB & FLAT CHANNEL AND INTERPATH CHANNEL ISSUE DATE NOV 2022

SD601



LOW PROFILE KERB AND FLAT CHANNEL

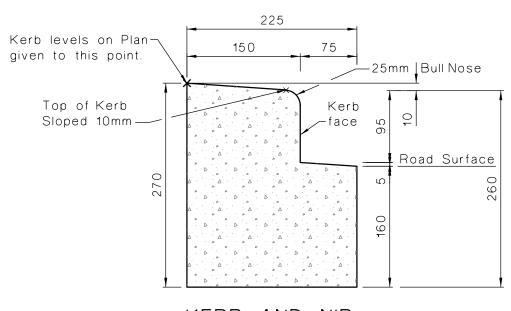


NOTES:

- 1. Concrete strength to be 20MPa at 28 days.
- 2. Concrete Finish to conform with
- Class U3 of NZS3114.

 3. Limits of excavation to be sawcut if path and/or carriageway is not to be reconstructed.
- Kerb entry adaptors shall not to be installed in low profile Kerb & Channel.

KERB ONLY

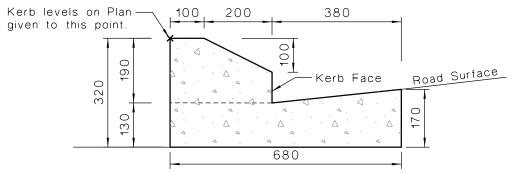


KERB AND NIB

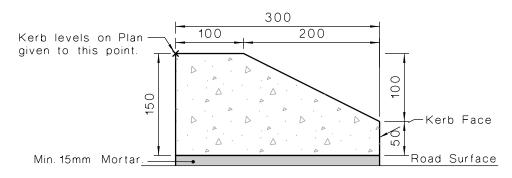


LOW PROFILE KERB & FLAT CHANNEL, KERB ONLY AND & NIB KERB

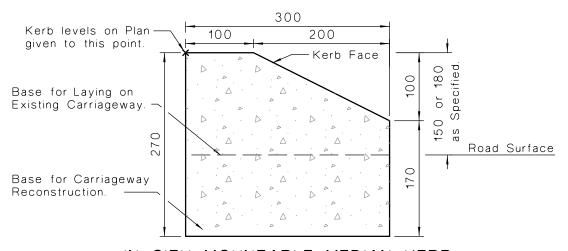
ISSUE DATE FEB 2002 SD602 SHEET 1



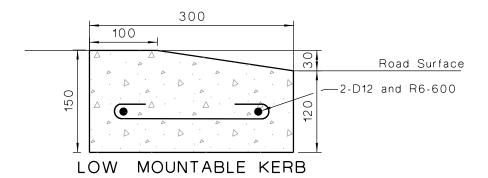
MOUNTABLE MEDIAN KERB AND FLAT CHANNEL



PRECAST MOUNTABLE MEDIAN KERB BLOCKS



IN SITU MOUNTABLE MEDIAN KERB



NOTES:

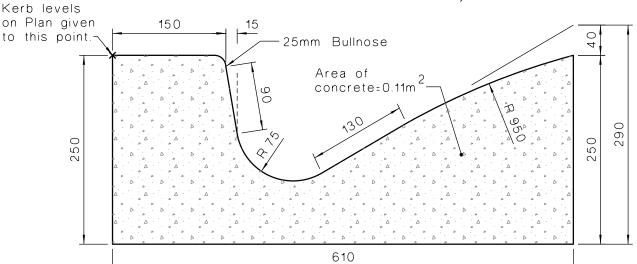
- Concrete Strength to be 20MPa at 28 days. Concrete Finish to Conform with Class U3 of NZS3114.
- Length of Precast Block 600mm.



MEDIAN KERB MOUNTABLE & FLAT CHANNEL. MOUNTABLE MEDIAN & LOW MOUNTABLE KERB

ISSUE DATE MAR 2013 SD603

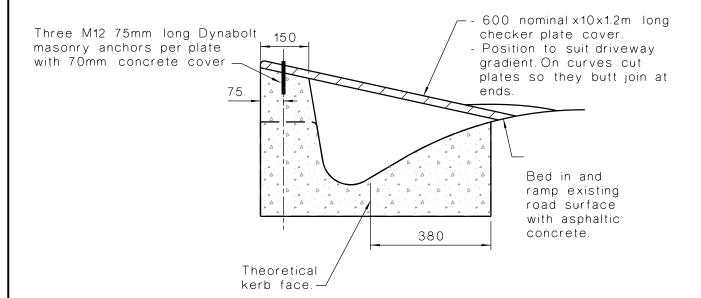




HILLSIDE CHANNEL

NOTES:

- Concrete strength to be 20MPa at 28 days.
 Concrete Finish to conform with Class U3 of NZS3114.

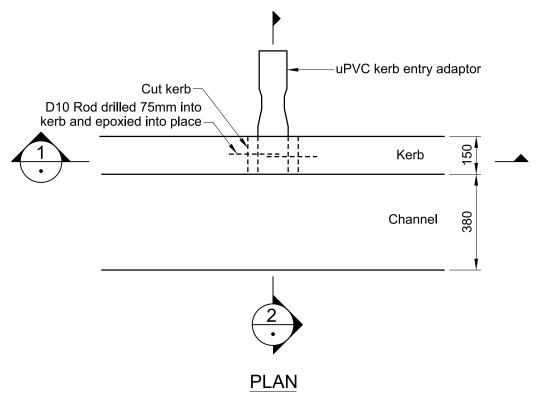


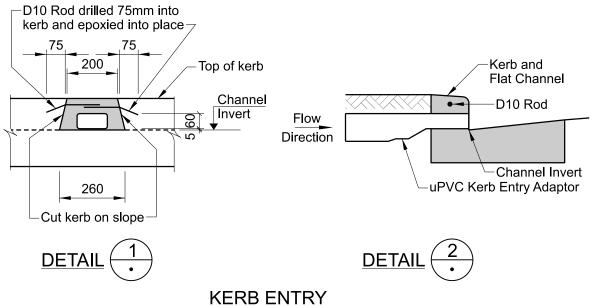
VEHICLE CROSSING FOR HILLSIDE CHANNEL



ISSUE DATE FEB 2002

SD604





NOTES:

- 1. Stormwater Outlets in kerbs to be at 200mm centres minimum.
- 2. Kerb entry adaptor to be installed in conjunction with the pouring of the kerb and channel.
- 3. If kerb entry adaptor is installed after concrete has hardened then kerb is to be cut on slope as shown in detail 1 above.



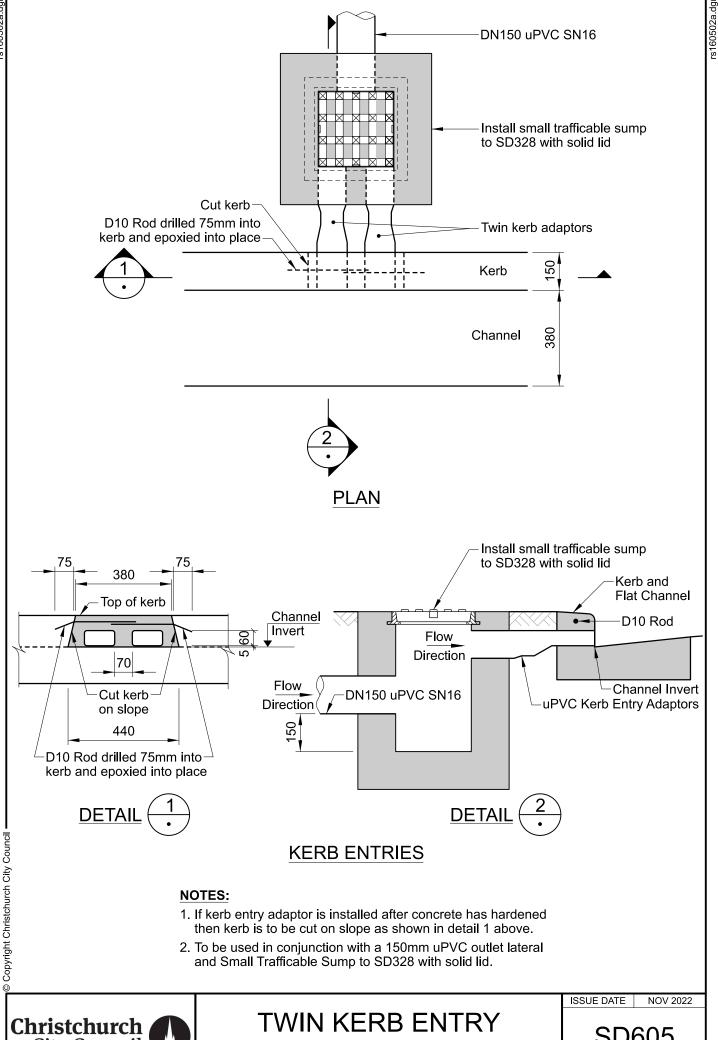
KERB ENTRY

SD605

NOV 2022

ISSUE DATE

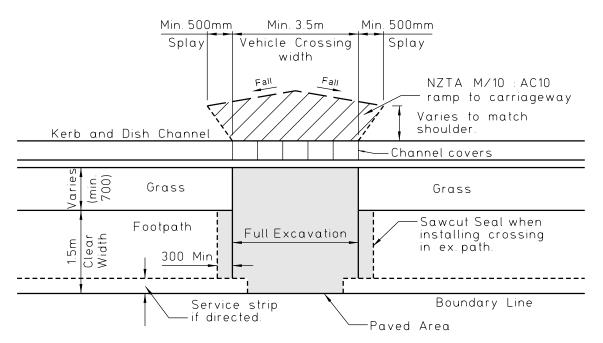
SHEET 1 OF 2



City Council

ADAPTOR DETAILS

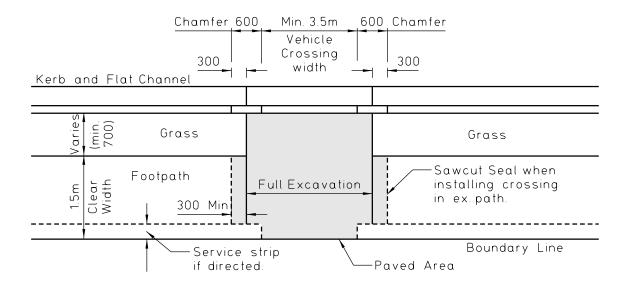
SD605 SHEET OF 2 2



KERB AND DISH CHANNEL

NOTES:

- 1. Crossing locations and widths to comply with current District Plan.
- Where two crossings in Kerb & Dish Channel are within 1m of each other they shall be joined to form one continuous crossing and a cleaning opening shall be installed centrally to the crossing.
- Where two crossings in Kerb & Flat channel are separated by up to 1m of full height kerb, they shall be joined to form one continuous crossing.
- 4. Minimum residential Vehicle Crossing width to be 3.5m
- 5. Batten to be laid to top of chamfer when residential crossing is adjacent to landscaping or cobblestones.
- 6. Kerb entries to be installed no closer than 1.0m from top of chamfer.

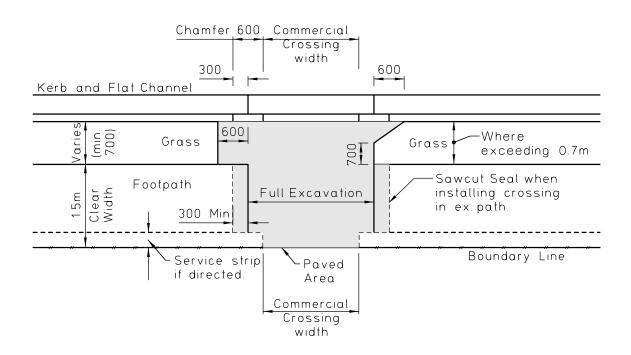


KERB AND FLAT CHANNEL



VEHICLE CROSSING & TYPICAL FOOTPATH GEOMETRY

ISSUE DATE	OCT 2016
SD606	
02000	
SHEET 1 of	2



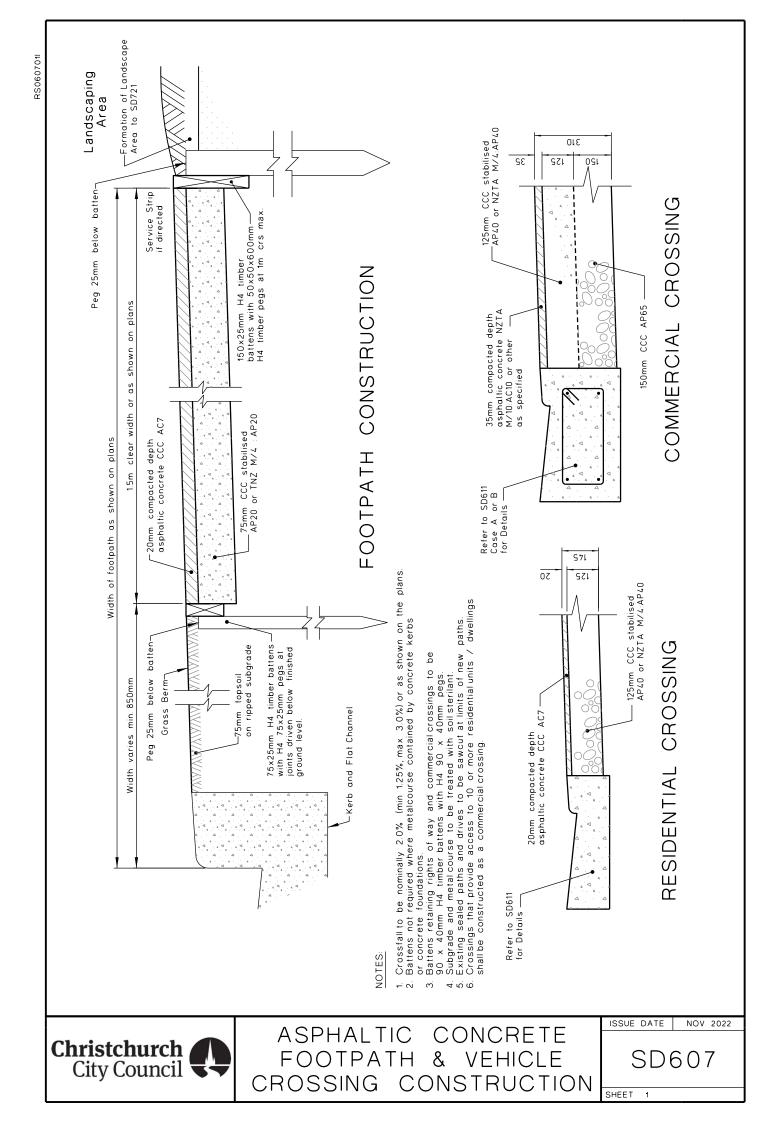
NOTES:

1. Maximum width of commercial crossing to be 9.0m

Christchurch City Council COMMERCIAL VEHICLE CROSSING

SD606

2 of 2

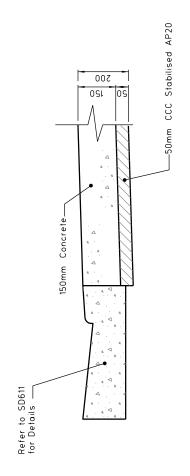


-Chamfer Edge Service Strip if directed shown on plans U5 Finishclear width or as Width of footpath as shown on plans 50mm CCC stabilised AP20 -100mm Concrete -Chamfer Edge Width varies min. 850mm -75mm topsoil Grass Berm. Kerb and Flat Channel

FOOTPATH CONSTRUCTION

NOTES:

- Crossfall to be nominally 2.0% (min 1.25%, max 3.0%) or as shown on the plans.
 Existing sealed paths and drives to be sawcut at limits of new paths.
 Construction Joints to be formed at maximum 3.0m centres.
 All formwork to be removed.
 Commercial crossings require site specific engineering design.



&

SHEET

RESIDENTIAL CROSSING

Christchurch City Council

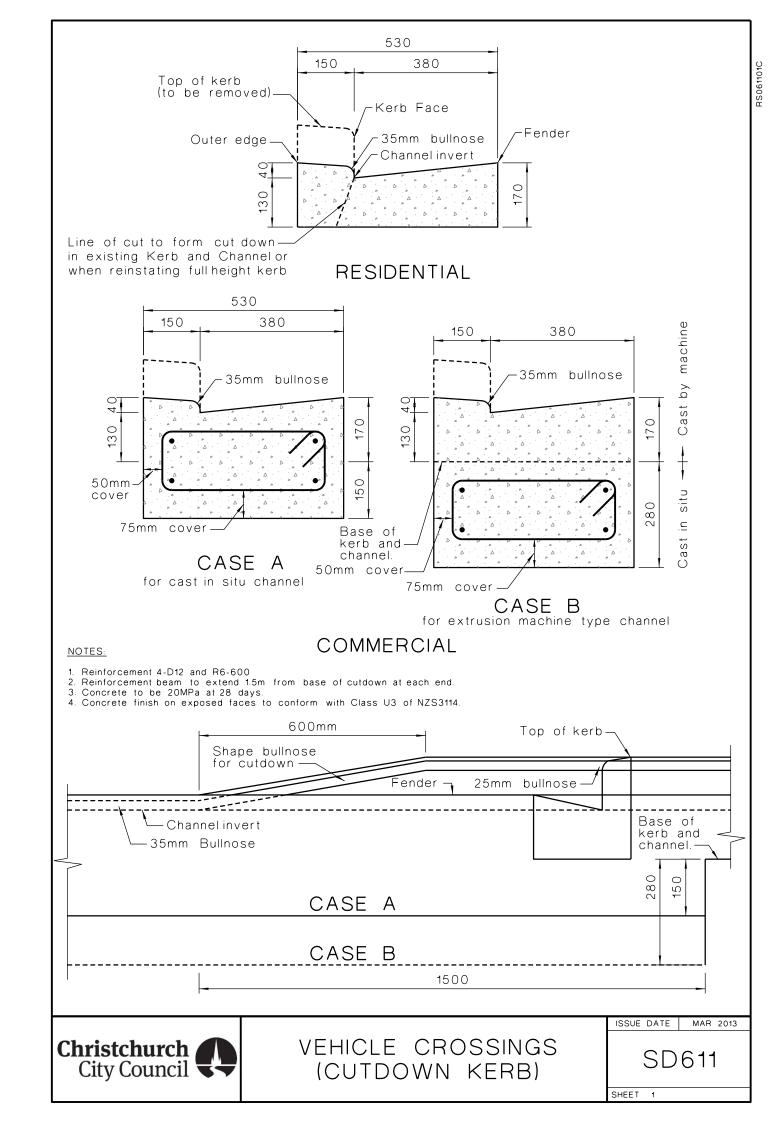
FOOTPATH CONCRETE VEHICLE CROSSING CONSTRUCTION

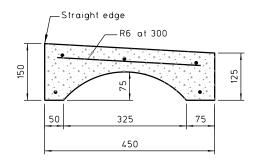
ISSUE DATE APR 2014 SD608

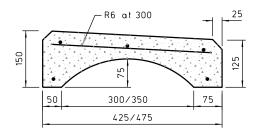


GRITTED FOOTPATH CONSTRUCTION

SD609







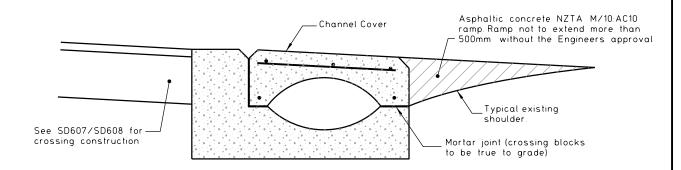
TYPE A

TYPE B

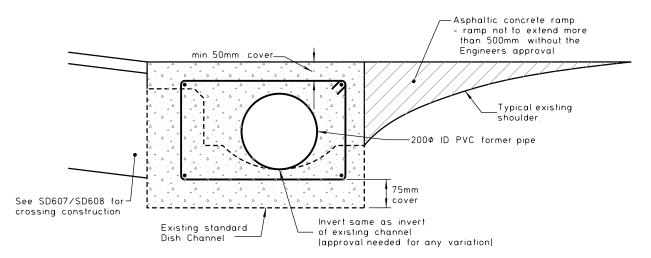
NOTES:

- 1. All concrete 35 MPa.
- 2. 5-D12 reinforcing bars and 2-R6 at 300.

STANDARD PRECAST CHANNEL COVERS x 500mm, 450mm x 500mm & 425mm x 500mm



RESIDENTIAL



NOTES:

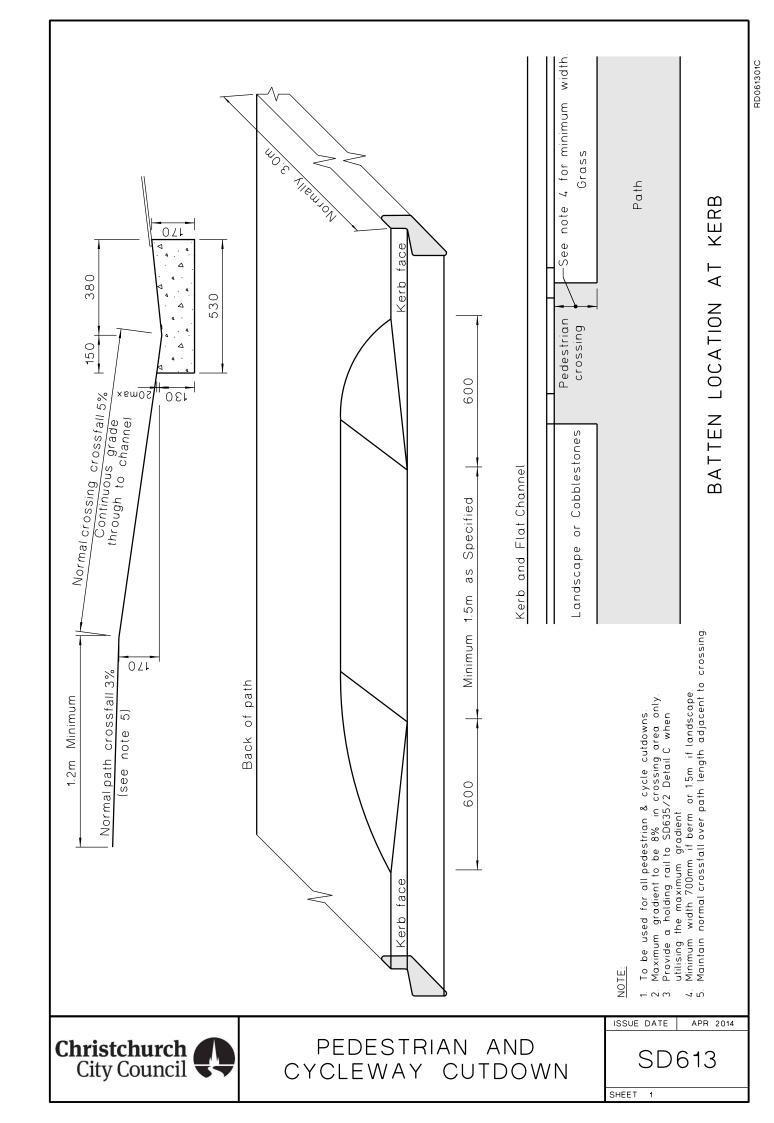
- All concrete 20 MPa at 28 days.
 Reinforcement 4-D12 R6-600
- NZTA M/10.AC10 is an acceptable alternative surfacing for the vehicle crossing.
 Refer to SD606 for ramp dimensions.

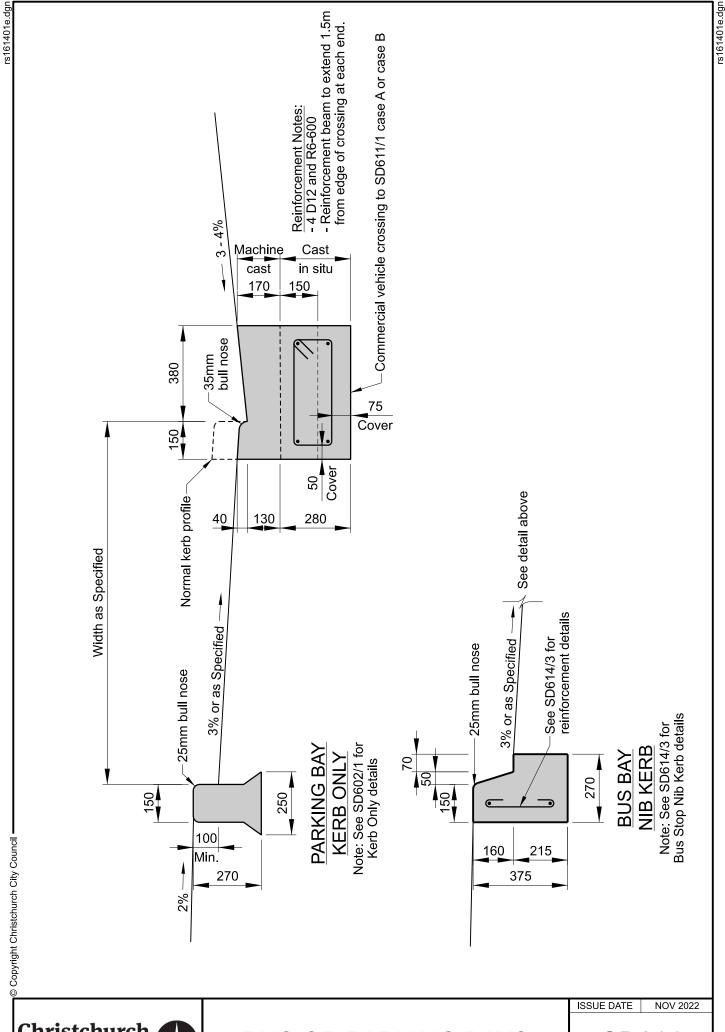
COMMERCIAL



DISH CHANNEL VEHICLE CROSSINGS ISSUE DATE OCT 2016

SD612



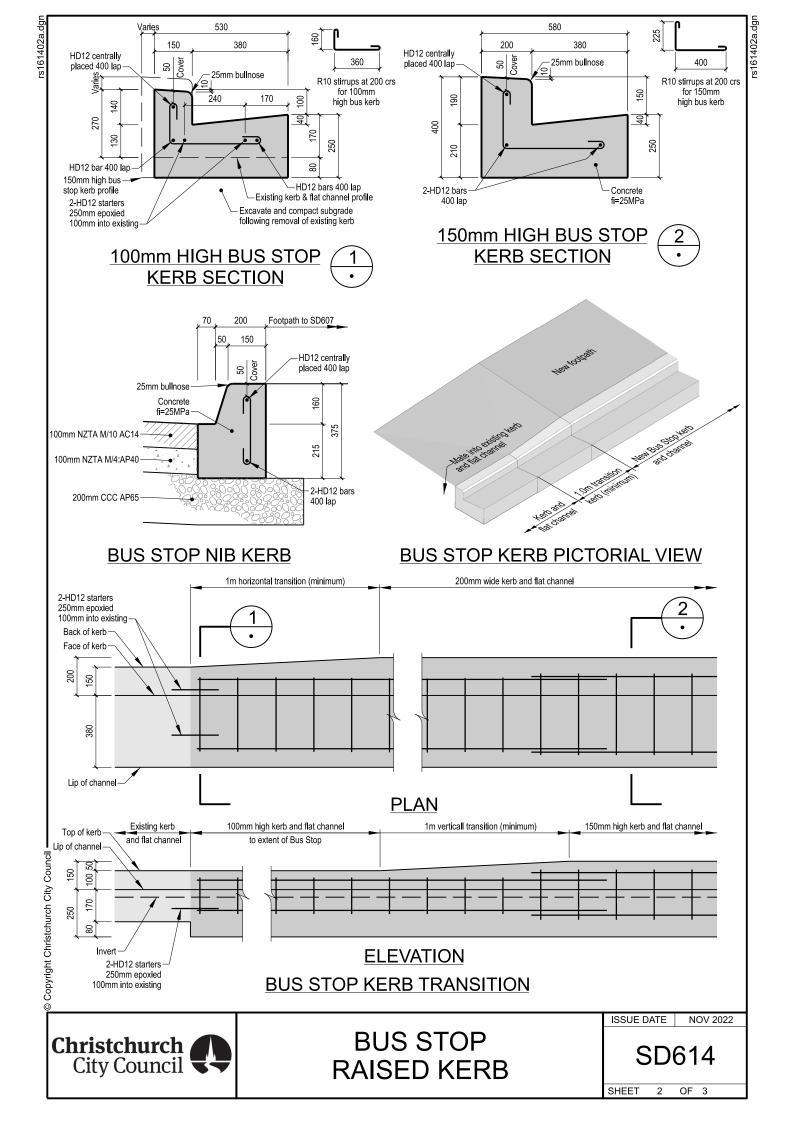


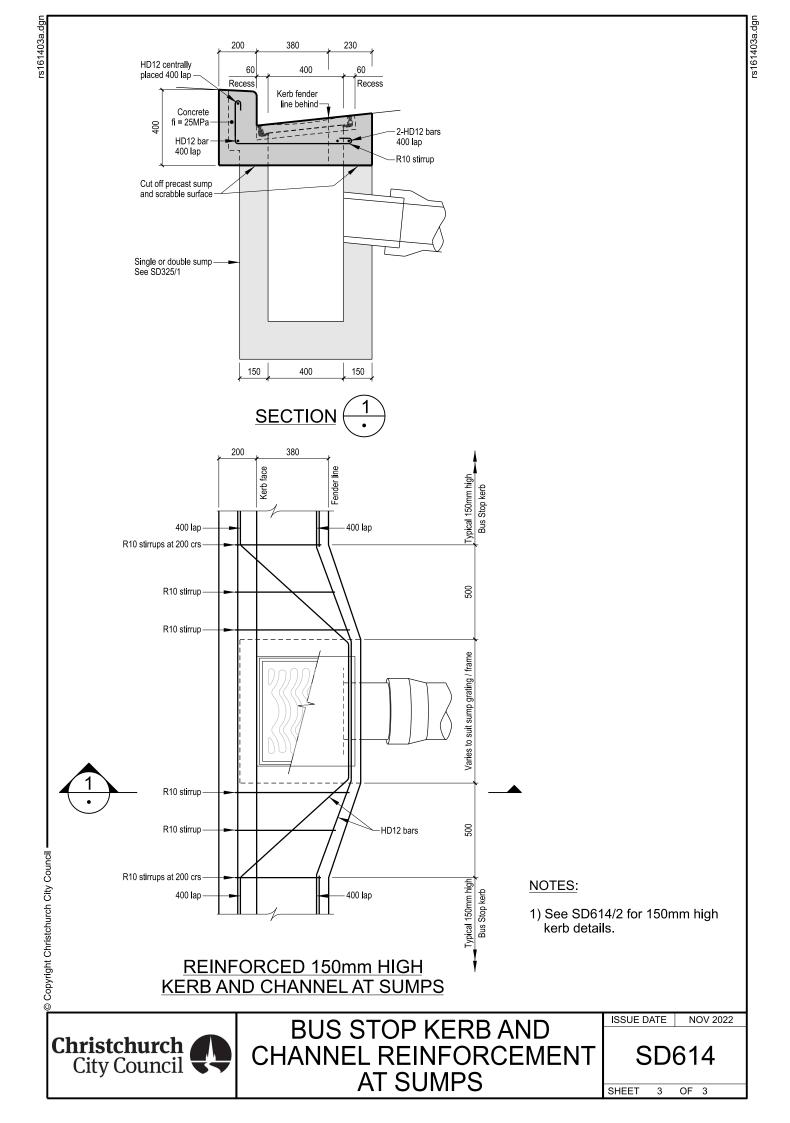
Christchurch City Council

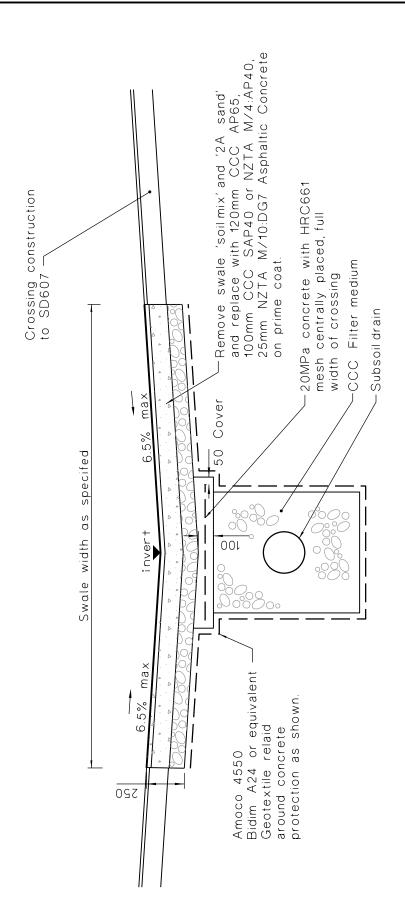
BUS OR PARKING BAYS

SD614

SHEET OF







NOTES

Cross sectional area of swale crossing to equal specified area of swale.
 Invert of swale must not change from specified.

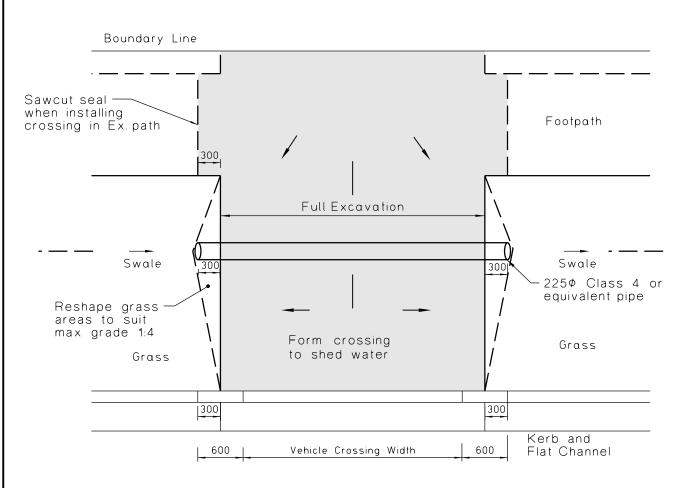
Christchurch City Council

NTIAL VEHICLE ING THROUGH SWALE RESIDENTIAL CROSSING T

ISSUE DATE

OCT 2016

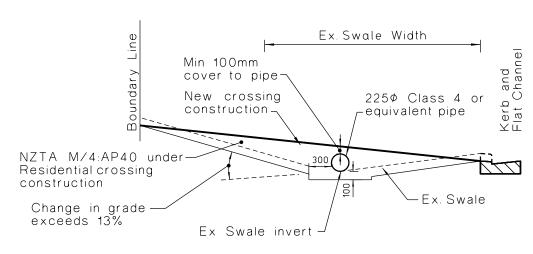
SD615



PLAN

NOTES:

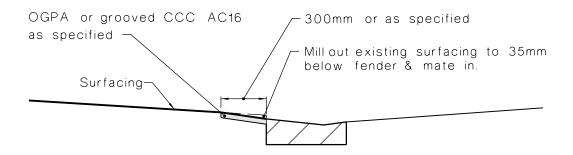
- Crossing locations and widths to comply with current District Plan.
 Where two crossings are within 1m of each other they shall be joined to form one continuous crossing.
 Vehicle Crossing Width to be minimum 3.5m.



CROSS SECTION



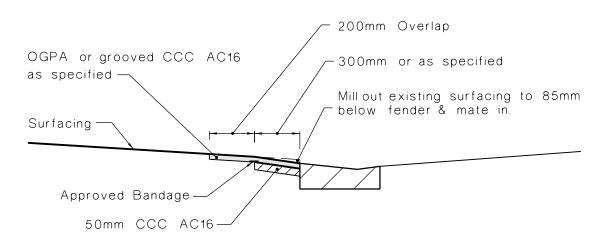
PIPED RESIDENTIAL VEHICLE CROSSING OVER EXISTING SWALE ISSUE DATE OCT 2016 SD616



TYPE A

Note:

1. Where the existing underlying material is not granular.



TYPE B

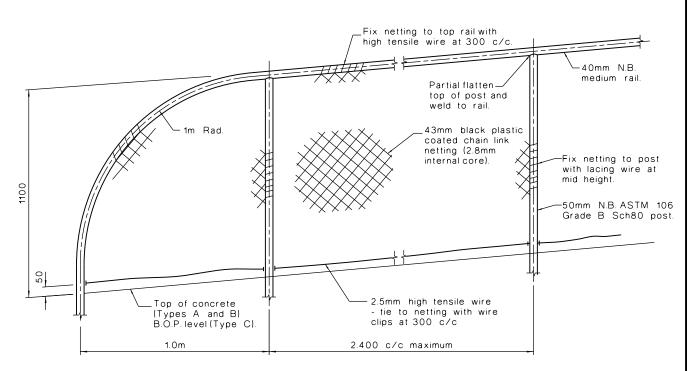
Note:

1. Where the existing underlying material is granular.



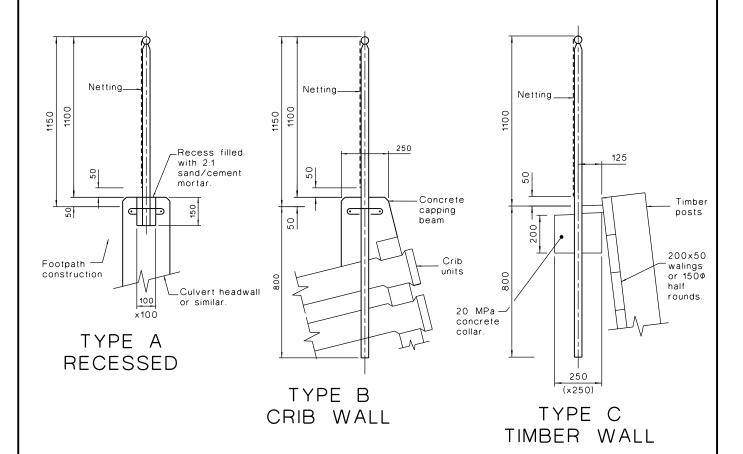
OPEN GRADED POROUS ASPHALT (OGPA) AT KERB CROSSINGS ISSUE DATE JUNE 2005

SD617



TYPICAL ELEVATION

NOT TO SCALE

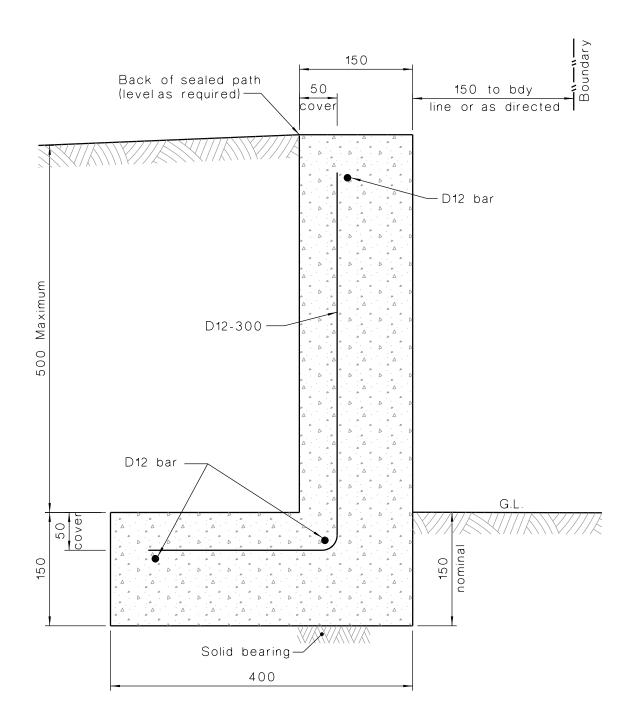


- 1. All steel work to be galvanised to AS/NZS 4680 after fabrication.
 2. Reinforcing details in concrete beam or headwall require specific design in all cases.
 3. Post may be fixed with 2 or 4 M16 bolts through 20mm base plate.



PEDESTRIAN SAFETY FENCE

ISSUE DATE OCT 2016 SD621 SHEET 1



NOTE:

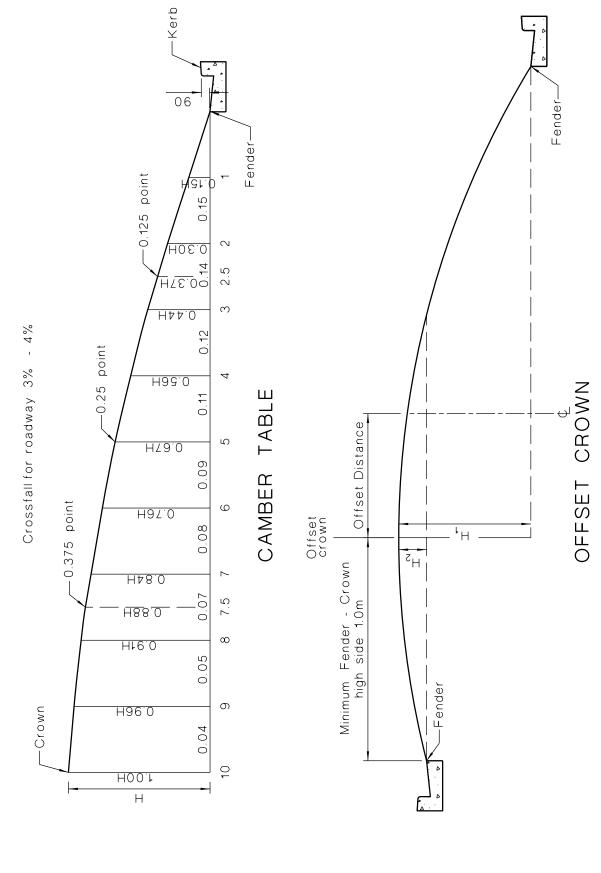
1. Concrete Strength to be 20 MPa at 28 days



LOW RETAINING WALL

ISSUE DATE MAR 2013

SD622



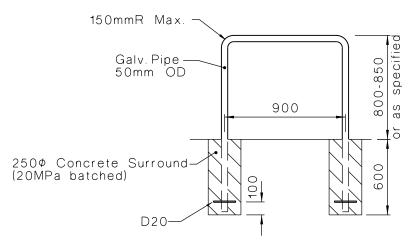
NOTES:

1. Where the road width is between 6-9m, design with a (central) peak and straight grades falling to the fender. 2. Where the road width is under 6m, design with a single crossfall and construct with a straight grade from fender to fender. 3. Carriageway camber on either side of offset crown should be balanced in terms of the above camber tables.

Christchurch City Council

CAMBER TABLE

SD623

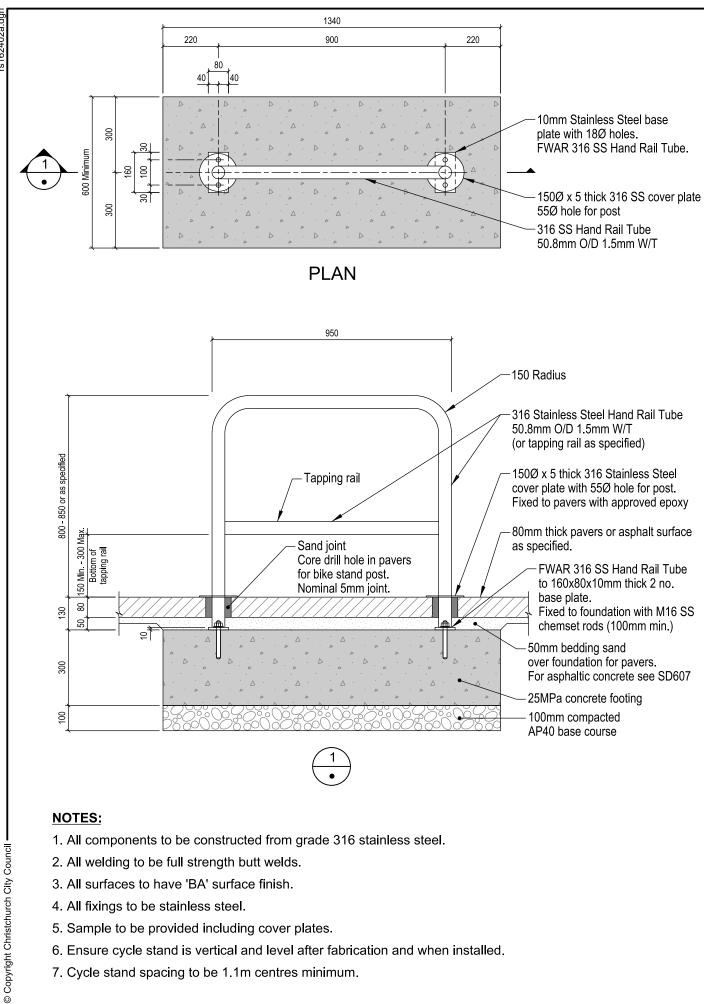


CYCLE STAND DETAIL - TYPE A



ISSUE DATE DEC 2019

RS062401D



- 3. All surfaces to have 'BA' surface finish.
- 4. All fixings to be stainless steel.
- 5. Sample to be provided including cover plates.
- 6. Ensure cycle stand is vertical and level after fabrication and when installed.
- 7. Cycle stand spacing to be 1.1m centres minimum.



rs162402a.dgr

STAINLESS STEEL **CYCLE STAND**

DEC 2019 ISSUE DATE

SD624

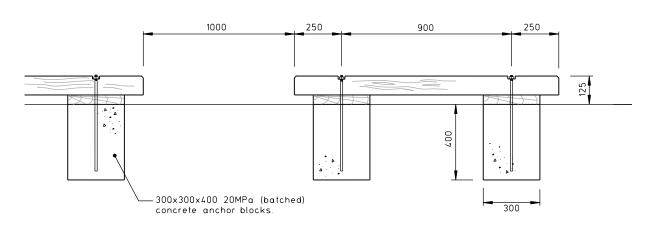
SHEET OF 2



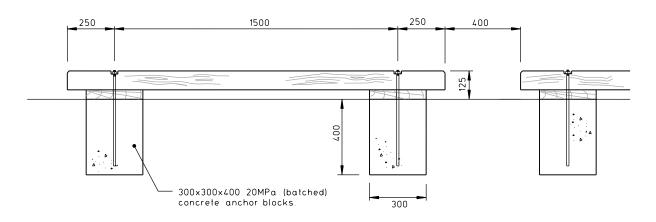
TYPICAL ROAD CROSS SECTION

ISSUE DATE FEB 2002

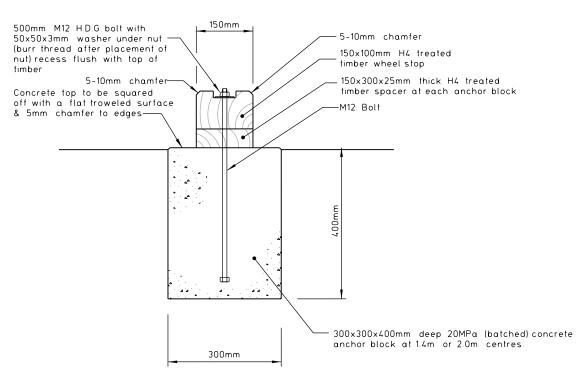
SD625



1.4m WHEEL STOPS



2.0m WHEEL STOPS

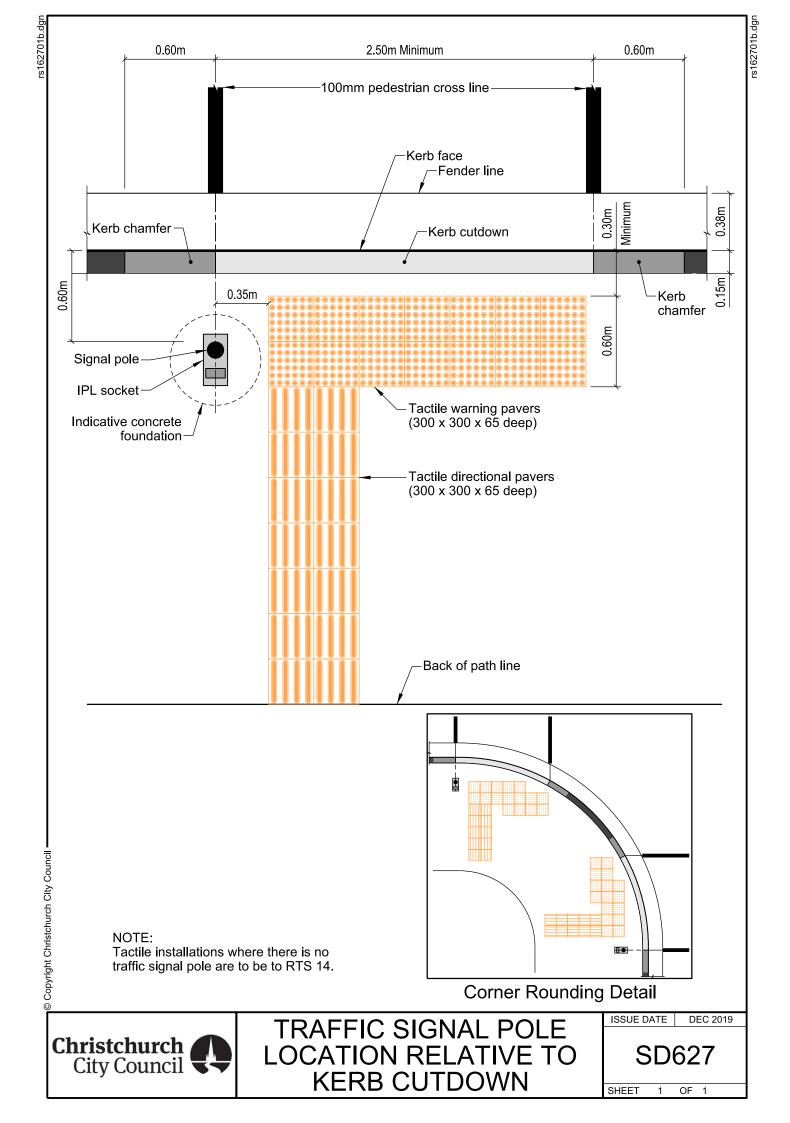


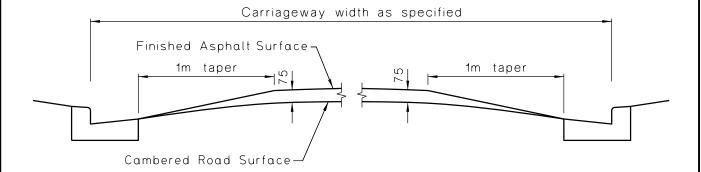
WHEEL STOP END ELEVATION



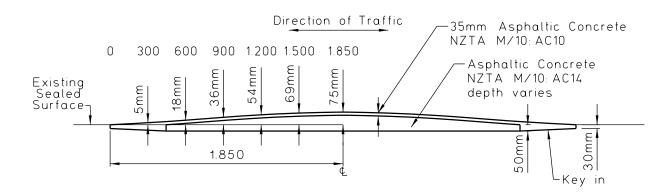
WHEEL STOP

SD626

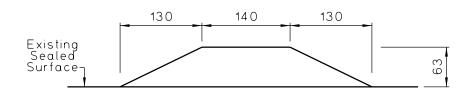




ROAD HUMP CROSS SECTION



ROAD HUMP PROFILE (3.70m WIDE)



SMALL ROAD HUMP PROFILE

- Note:

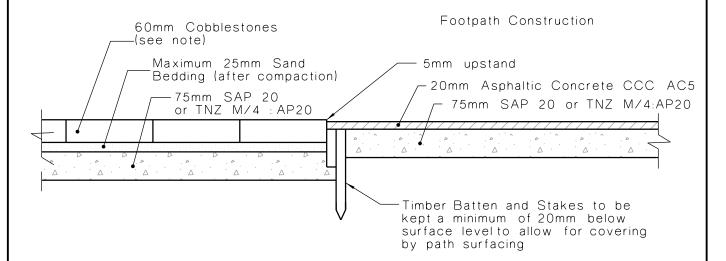
 1. The Surface of the Compacted Asphalt shall at no point vary more than 5mm from the Standard Profile laid Longitudinally over the Road Hump.

 2. Refer to SD641 for road marking details.

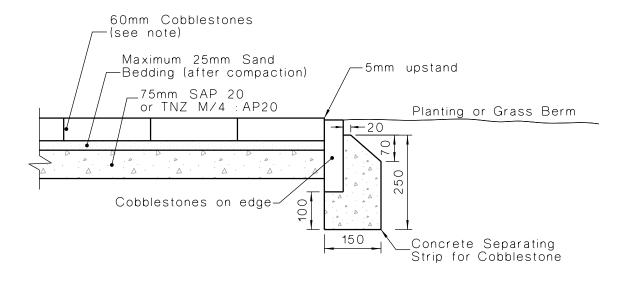


ROAD HUMP DETAILS

NOV 2022 ISSUE DATE SD631 SHEET 1



COBBLESTONES ADJACENT TO FOOTPATH



COBBLESTONES ADJACENT TO PLANTING/BERM

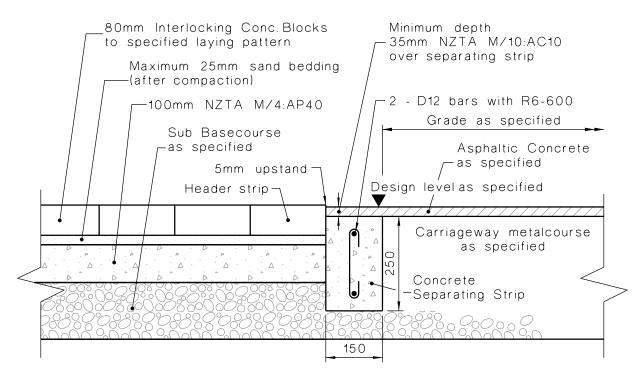
NOTES:

- Colour of cobblestones to be as specified.
 See SD 607 for footpath construction details.
 Concrete Strength to be 20MPa at 28 days.

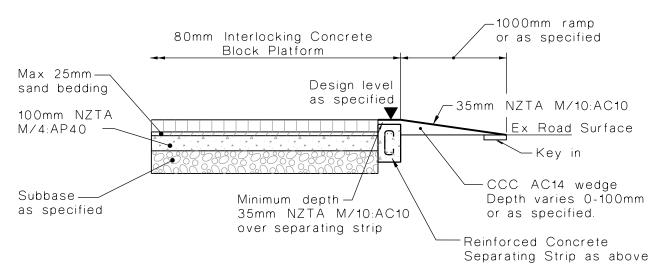


COBBLESTONE EDGE TREATMENTS ISSUE DATE MAY 2004

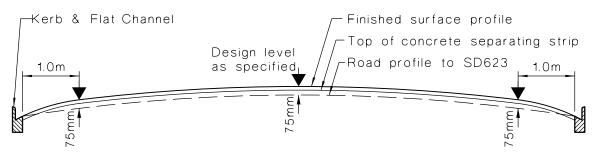
SD633



CARRIAGEWAY THRESHOLD (LONGITUDINAL SECTION)



PLATFORM RAMP DETAILS



PLATFORM RAMP BEAM SECTION

NOTES:

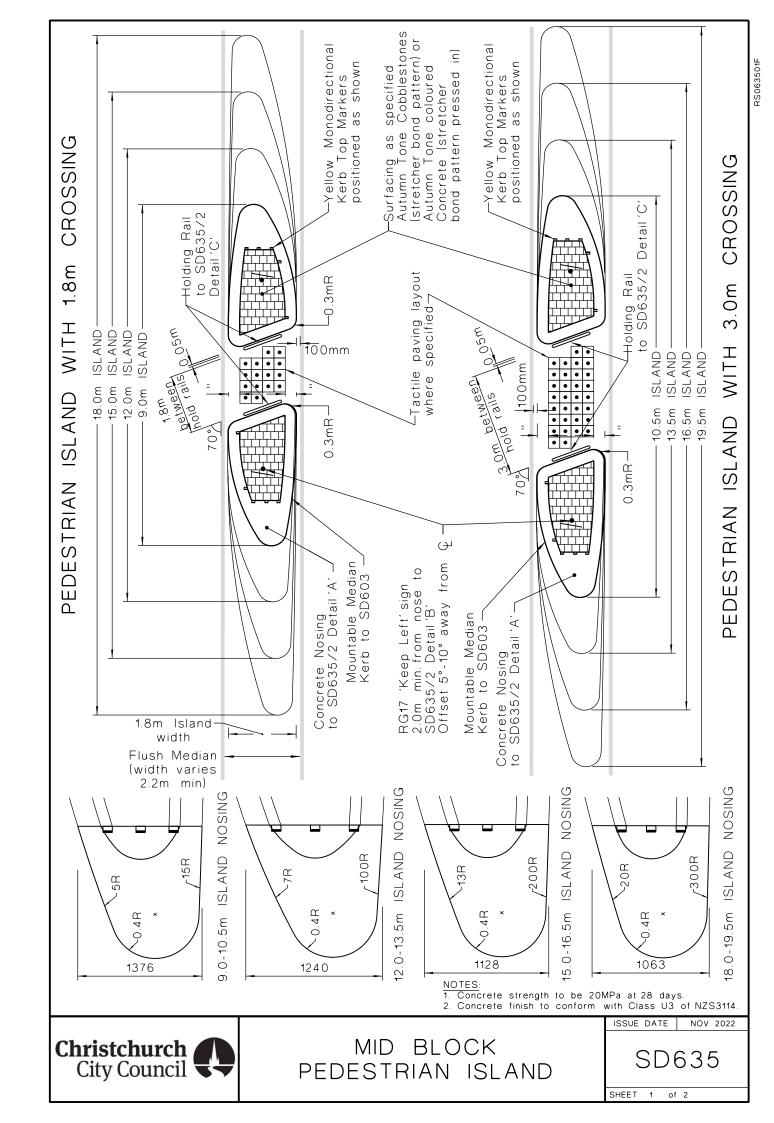
- Colour of Interlocking Conc. Blocks to be as specified.
 Concrete strength to be 20MPa at 28 days.
 Exposed concrete finish to conform with class U3 NZS 3114.

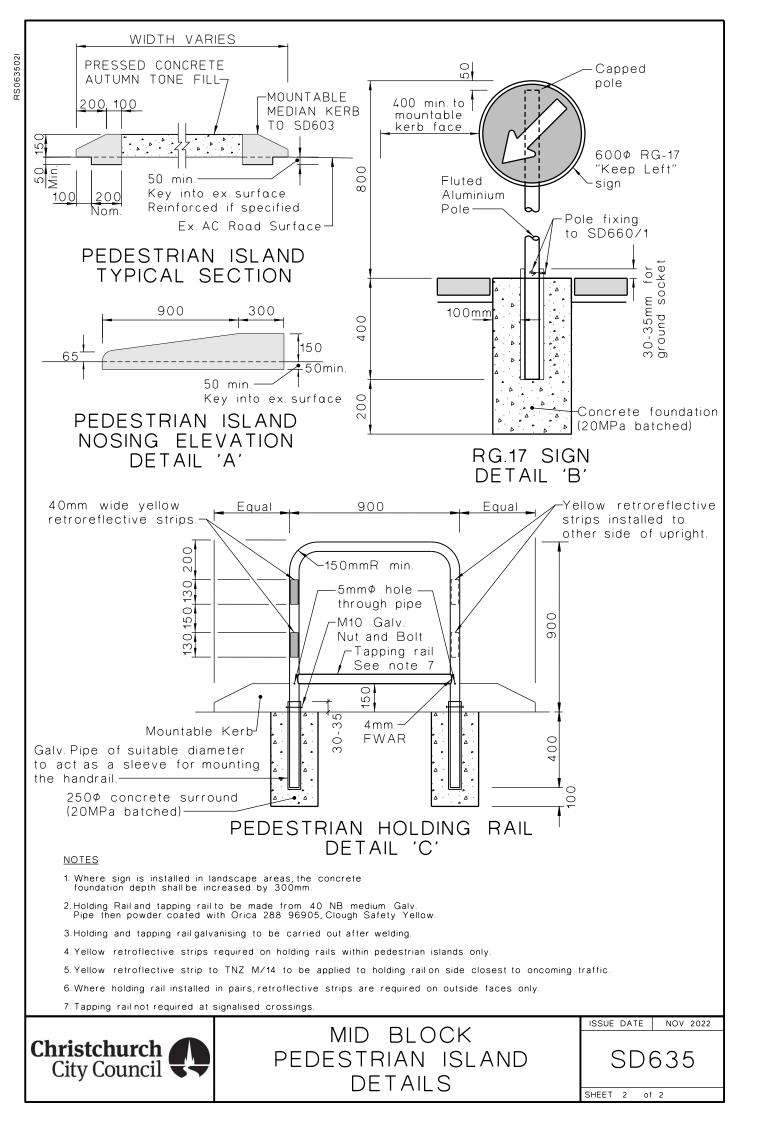
- 4. Refer to SD641 for road marking details.

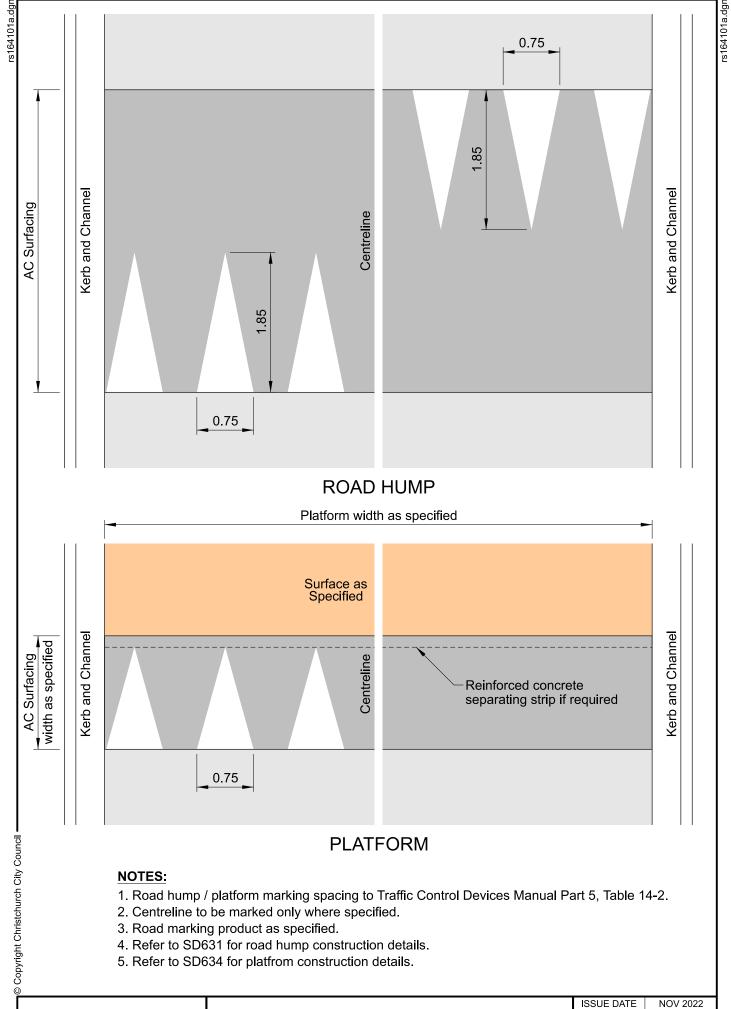


INTERLOCKING CONCRETE BLOCK EDGE TREATMENTS

ISSUE DATE NOV 2022 SD634 SHEET 1







Christchurch City Council

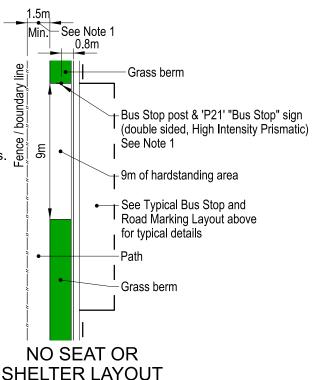
TYPICAL ROAD HUMP AND PLATFORM ROAD MARKING

SD641

SHEET 1 OF

rs164401a.dgr

- 1. The Bus Stop sign post is preferably aligned with the front line of the bus box. Ensure a minimum footpath width of 1.5m is maintained next to the bus stop sign. Otherwise install the bus stop sign at the back of the footpath or attached to the side of the shelter.
- 2. Bus Stop marking stripes 1.0m x 0.1m wide with 1.0m gaps.
- 3. A minimum cycle lane width of 1.2m should be maintained along side the bus box. This may be achieved by reducing the bus box width to 2.5m. In the case that a 1.2m width can not be achieved the bus box should be extended out to the cycle lane edge line.
- 4. The same design can be used for the installation of a seat instead of a shelter. The bus stop pole and sign is often installed in line with the seat closest to the front of the bus box.
- 5. If the back of the bus box coincides with a driveway, extend the bus box the full width of the driveway.



TYPICAL BUS STOP AND ROAD MARKING LAYOUT



TYPICAL BUS STOP ROAD MARKING

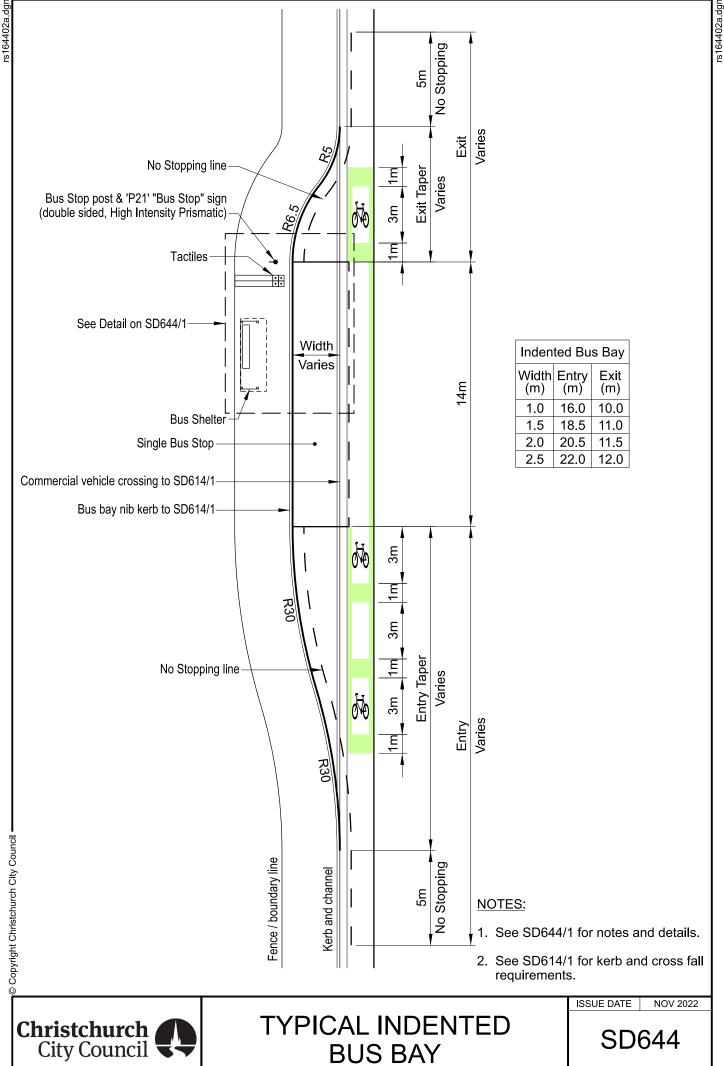
SD644

NOV 2022

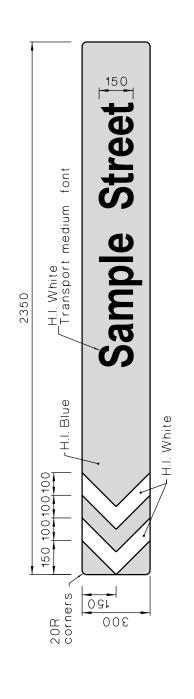
ISSUE DATE

rs164401a.dg

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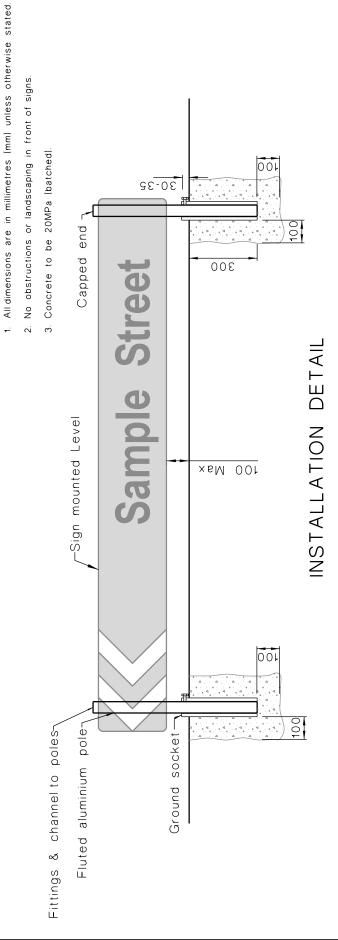


SHEET 2 OF 2



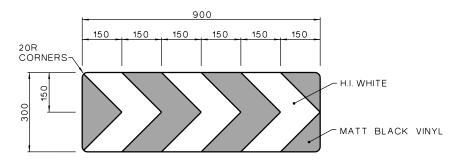
BOARD STANDARD CCC ROUNDABOUT CHEVRON / NAME

NOTE:

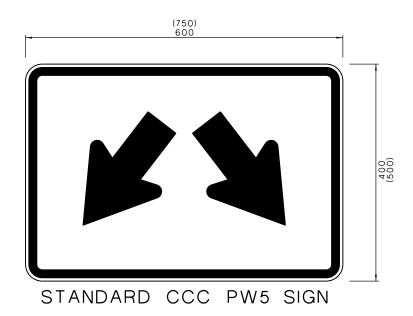




ROUNDABOUT CHEVRON / NAME BOARD SD645



STANDARD CCC CHEVRON BOARD



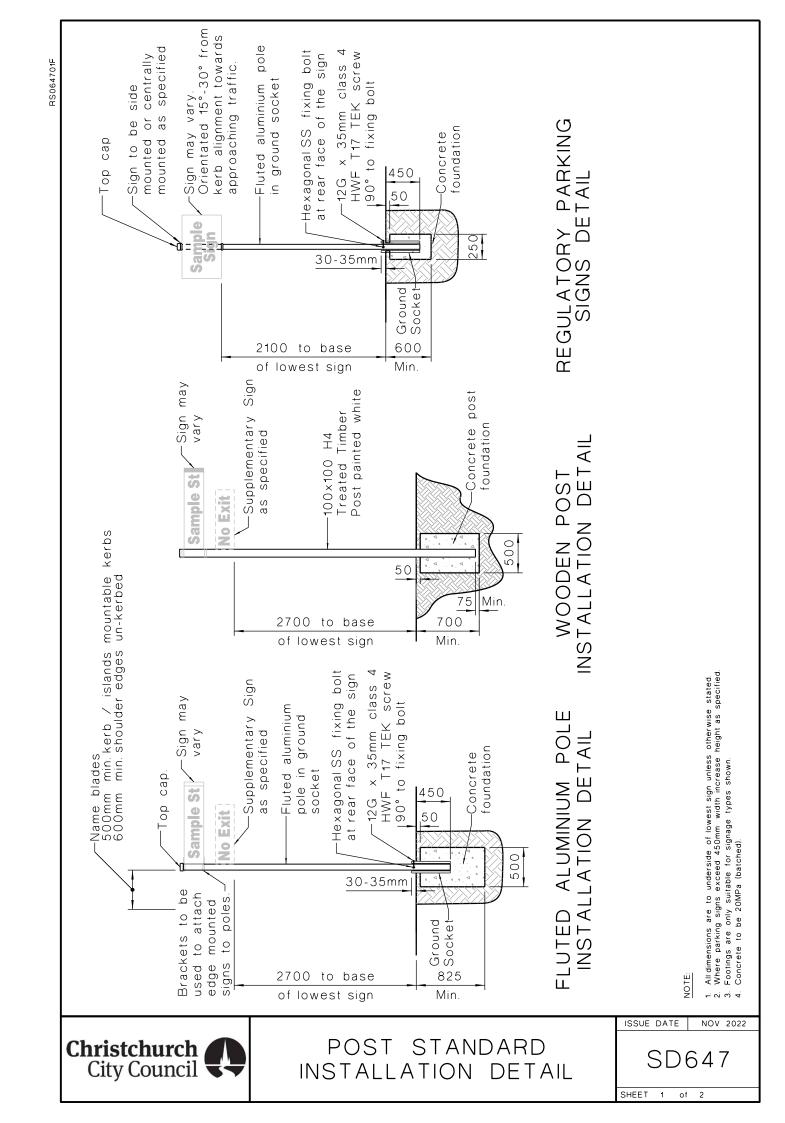
NOTE:

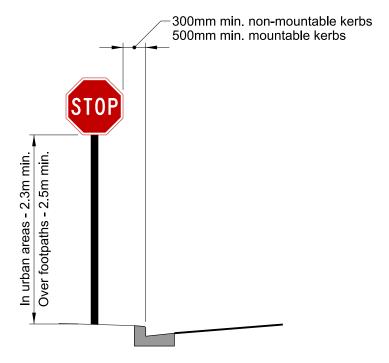
1. All dimensions are in millimetres (mm) unless otherwise stated.



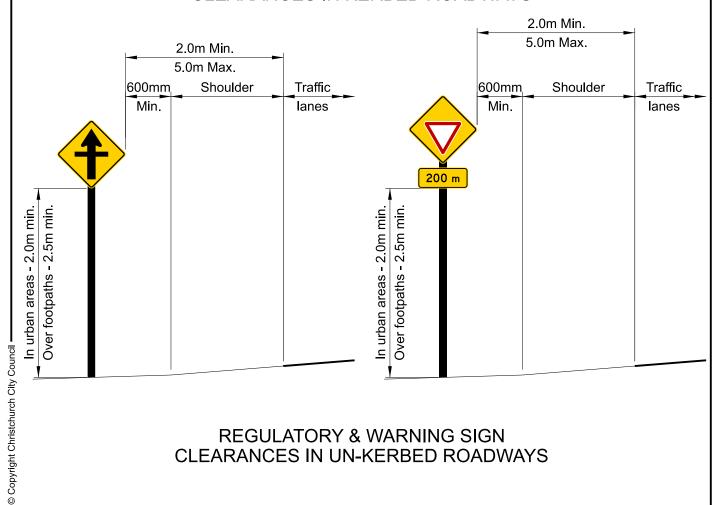
CHEVRON & PW5 SIGN

SD646





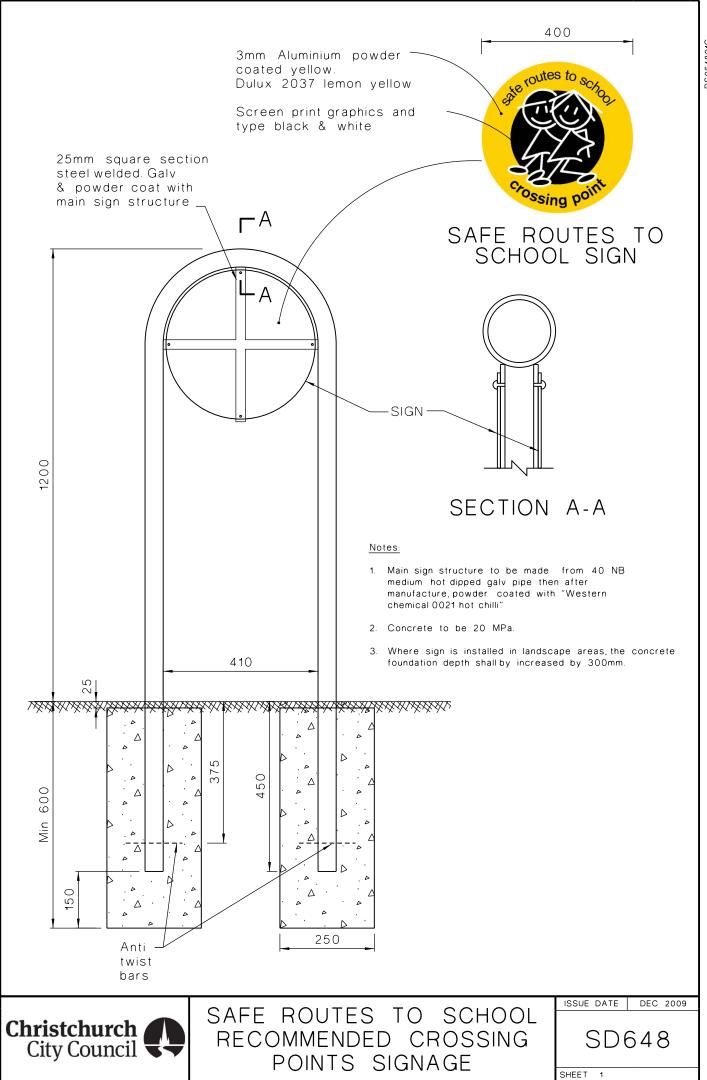
REGULATORY & WARNING SIGN CLEARANCES IN KERBED ROADWAYS

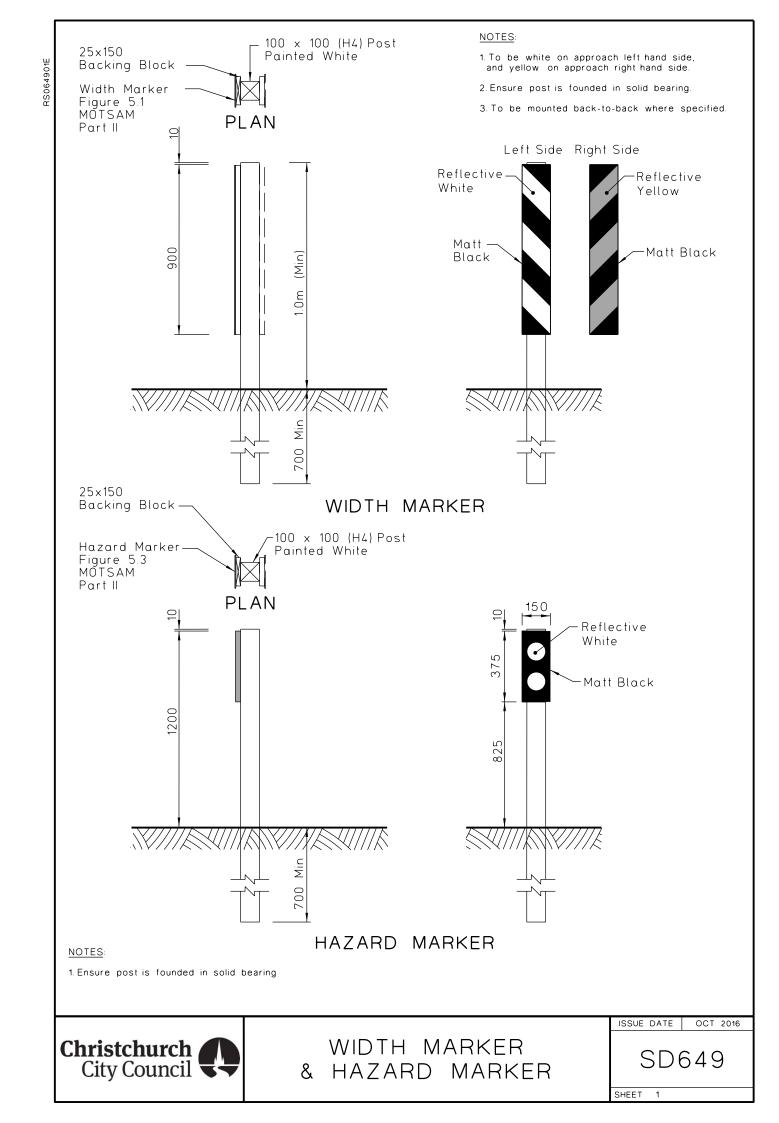


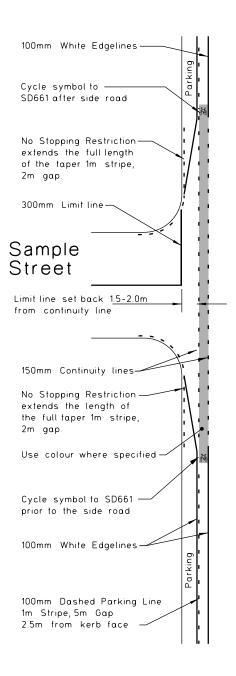
REGULATORY & WARNING SIGN CLEARANCES IN UN-KERBED ROADWAYS



POST SIGNAGE INSTALLATION DETAIL ISSUE DATE NOV 2022 **SD647** SHEET OF 2







NOTES:

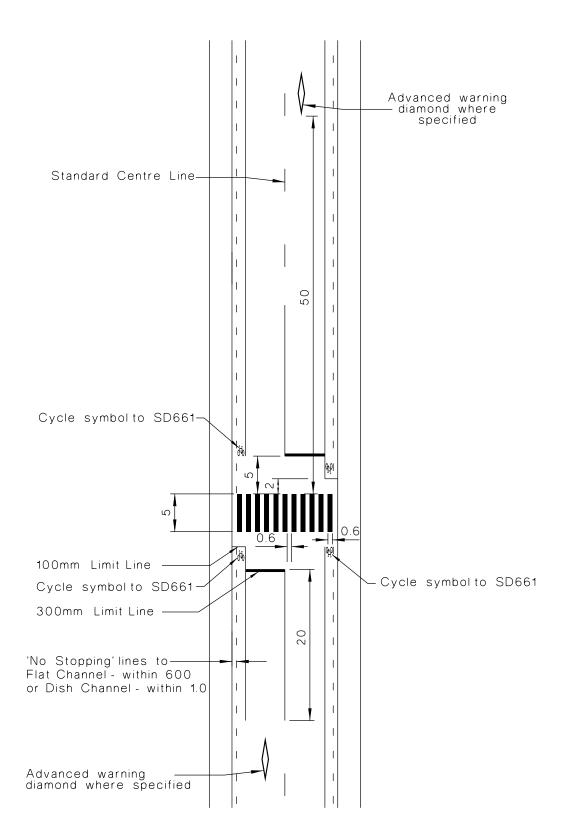
- Absolute minimum of 1.7m for cycle lane next to parking lane. Desired minimum width 1.8m. (For 50 km/hr Speed Limit)
- Cycle Logos to SD661 in locations as shown. All other mid-block cycle logos evenly spaced with maximum spacing of 100m.



CYCLE LANE AT INTERSECTION WITH EDGE LINES

ISSUE DATE DEC 2009

SD650



NOTES:

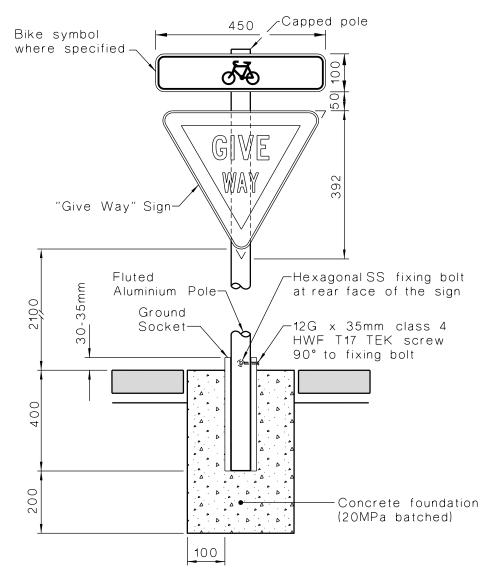
- Without kerb build-outs, the minimum length of broken yellow "No Stopping" lines on the approaches to pedestrian crossings is 15m.
- Christchurch City Council line dimension amendments to the 'Manual of Traffic Signs & Markings' issued by the NZTA.
- Broken yellow No Stopping line stripes at 2.0 centres, 1.0 x 0.1 wide for lengths over 15m. Pedestrian crossing stripes at 1200 centres 5.0 x 0.6 wide

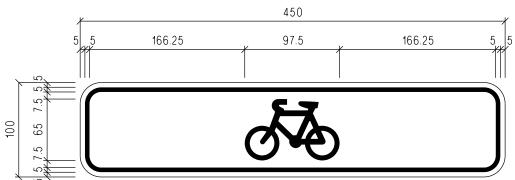


TYPICAL PEDESTRIAN
CROSSING ROAD
MARKINGS

ISSUE DATE NOV 2022

SD659



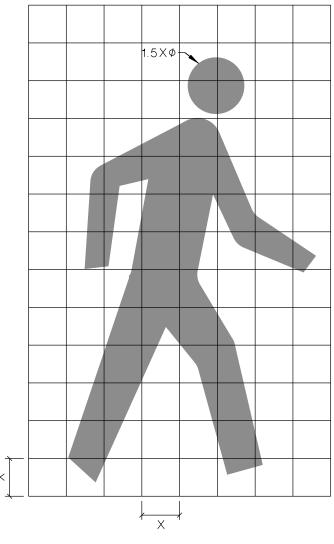


SUPPLEMENTARY SIGN LAYOUT



CYCLE GIVEWAY & SUPPLEMENTARY SIGN

SD660



PEDESTRIAN SYMBOL

CYCLE SYMBOL

Spacing	
Intersections	As specified
Midblock - Typical	50m
Midblock - Low Conflict	100m

NOTE:

- 1. Road markings to be reflectorised white.
- 2. This is the Traffic Control Devices Manual Cycle Symbol. On shared paths use a scale factor of X=20mm, resulting in a cycle logo 360mm wide & 560mm high. On cycleways use a scale factor of X=35mm, resulting in a cycle logo 630mm wide & 980mm high. On roads use a scale factor of X=50mm, resulting in a cycle logo 900mm wide & 1400mm high.



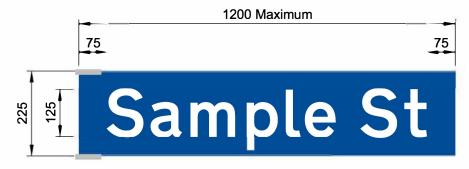
PEDESTRIAN & CYCLE SYMBOLS

ISSUE DATE OCT 2016

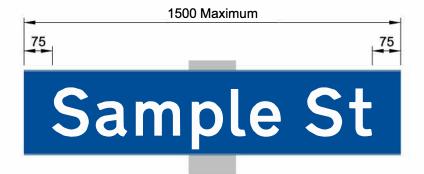
SD661



MAJOR ARTERIAL ROADS (End Mounted)



OTHER SIGNS (End Mounted)



(Central Mounted)



SUPPLEMENTARY SIGNS (End Mounted)

NOTES:

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- 1. Refer to CSS Part 6 clause 25.4 Street Name Signs.
- 2. Font for signage lettering to be 'Modified Series E'.

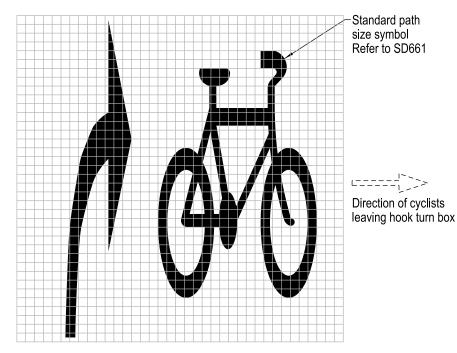


STREET NAME BLADES

ISSUE DATE NOV 2023

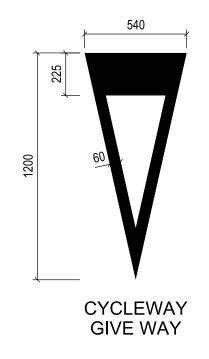
SD662

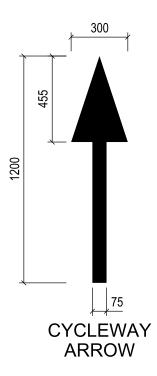
SHEET 1 OF 1



Direction of cyclists approaching hook turn box

HOOK TURN DETAIL





NOTES:

- 1. Hook turn box sides to be at least 1.5m long.
- 2. Hook turn stencil to MOTSAM fig. 3.35a with 'x'=35mm

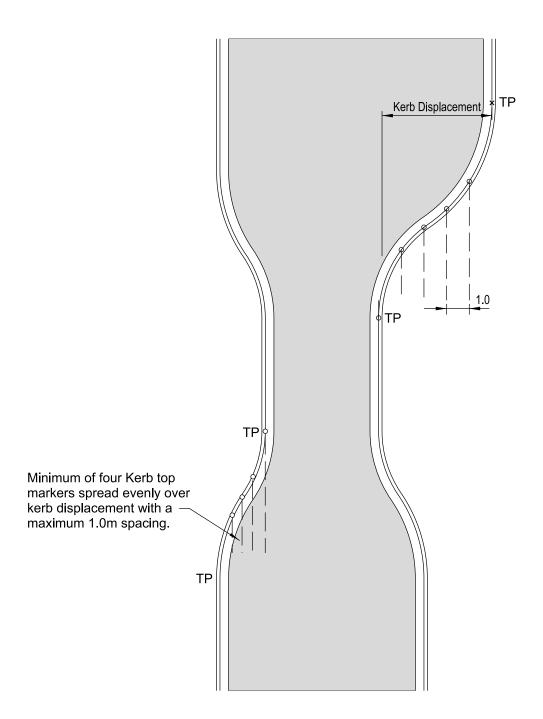


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HOOK TURN DETAIL & PATHWAYS CYCLE SYMBOLS ISSUE DATE DEC 2014

SD663

SHEET 1 OF 1





ISSUE DATE DEC 2009