

# **APPENDIX K**

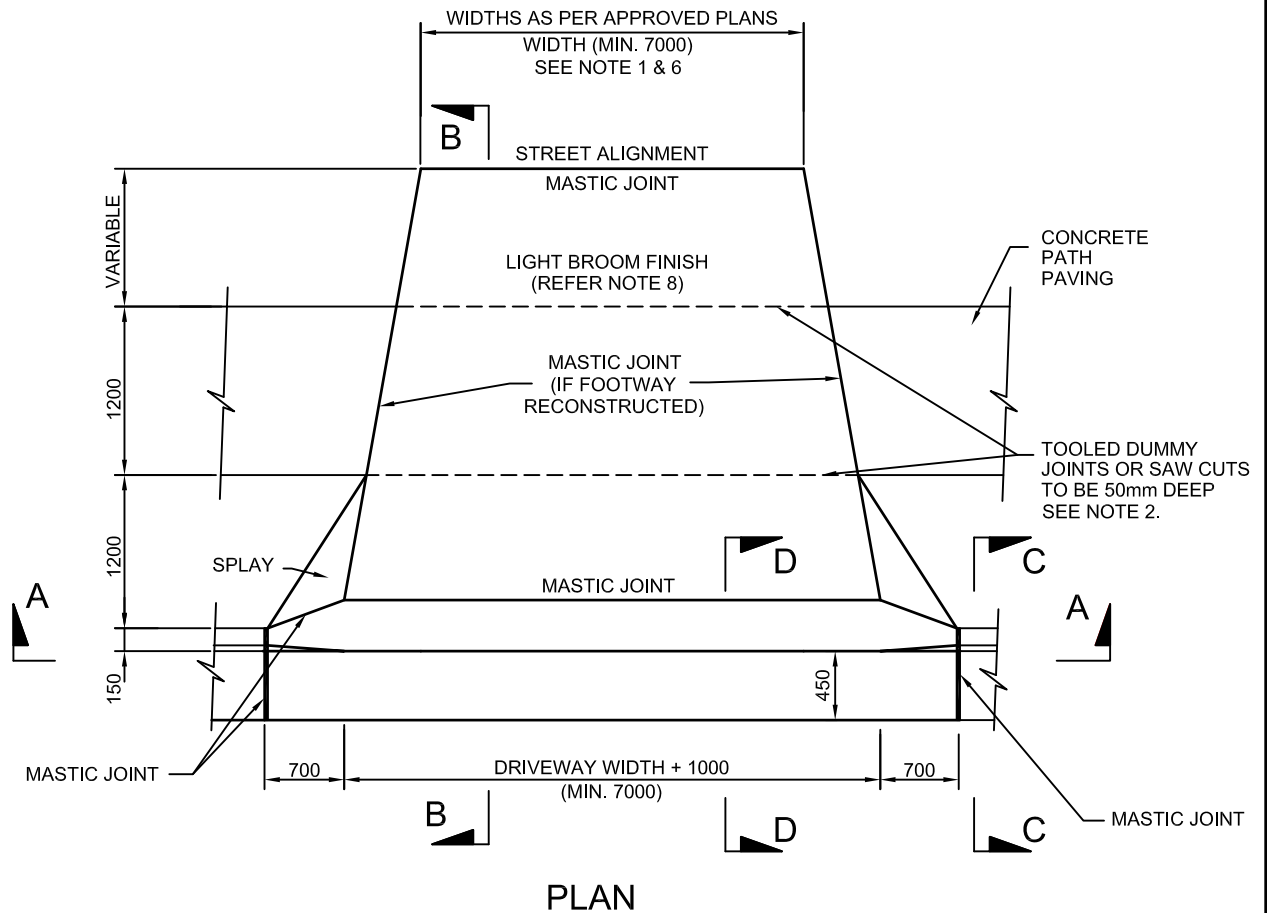
## **STANDARD DRAWINGS**

## Appendix K Standard Drawings

The title on all Standard Drawings was amended to remove reference to the year of the DCP revision. All amendment history is noted in the amendment boxes on the Standard Drawings.

Standard Drawing Number	Number of Sheets	Title	Any changes from 2007 Version
<b>Notes</b>			
SD-NT01	1	Notes – General	NO
SD-NT02	1	Notes – Concrete	NO
SD-NT03	1	Notes – Earthworks	NO
SD-NT04	1	Notes – Steelwork and Steel Reinforcement	NO
SD-NT05	1	Notes – Special Conditions	NO
SD-NT06	4	Notes – Product Specifications	NO
SD-NT07	1	Notes – Sediment and Erosion Control	NO
<b>Roads</b>			
SD-R01	1	Vertical Curves	NO
SD-R02	1	Cul-de-sac Standard	NO
SD-R03	1	Kerb Return Layout and Design Details	NO
SD-R04	1	Kerbs and Gutters	NO
SD-R05	1	Sub-soil Drainage	NO
SD-R06	1	Kerb Weephole and Kerb Adaptor	NO
SD-R07	4	Kerb Ramps	NO
SD-R08	2	Residential Vehicle Crossing	YES
SD-R09	2	Medium Density Vehicle Crossing	YES
SD-R10	2	Commercial and Industrial Vehicle Crossing	YES
SD-R11	1	Footpath	YES
SD-R12	1	Bicycle Path	NO
SD-R13	1	Low Mountable Island	NO
SD-R14	1	T-intersection Treatment	NO
SD-R15	1	Roundabouts	YES
SD-R16	1	Parking Modification to Provide Disabled Persons Parking	NO
SD-R17	1	Zig zag Pavement Markers	NO
SD-R18	1	Street Sign	NO
SD-R19	1	Supplementary Road Name Signposting for Roundabouts	NO
SD-R20	1	Log Vehicle Barrier	YES
SD-R21	1	Cycle path Holding Rail	NO
SD-R22	1	Laneway Baulk	NO


<b>Standard Drawing Number</b>	<b>Number of Sheets</b>	<b>Title</b>	<b>Any changes from 2007 Version</b>
SD-R23	1	Pathway Baulks	NO
SD-R24	1	Wire Rope Barrier	NO
<b>Stormwater</b>			
SD-S01	1	Trash Rack Warning Sign	NO
SD-S02	1	Pipe Flood Warning Sign	NO
SD-S03	1	Floodway Warning Sign	NO
SD-S04	1	Geo-composite Drain	NO
SD-S05	1	Connection to Main Drain	NO
SD-S06	1	Grated Gully Pit with Extended Kerb Inlet Pit	NO
SD-S07	1	Kerb Median Inlet Pit	NO
SD-S08	1	Surcharge Pit	NO
SD-S09	1	Step Irons	NO
SD-S10	1	Minor Drainage Connections	NO
SD-S11	1	Surface Inlet and Letterbox Pit	NO
SD-S12	2	Heavy Duty Junction Pit	NO
SD-S13	2	Outlet Details Grass Lined Channel/Creel	NO
SD-S14	1	Reinforced Turf Detail	NO
SD-S15	1	Pyramid Grate	NEW
SD-S16	1	No climbing warning sign	NEW
SD-S17	1	No planting warning sign	NEW
<b>Miscellaneous</b>			
SD-M01	1	Erosion and Sediment Control Plan	NO
SD-M02	1	Stockpiles	NO
SD-M03	1	Earth Bank (low flow)	NO
SD-M04	1	Straw Bale Filter	NO
SD-M05	1	Sediment Fence	NO
SD-M06	1	Mesh and Gravel Inlet Filter	NO
SD-M07	1	Geotextile Inlet Filter	NO
SD-M08	1	Kerbside Turf Strip	NO
SD-M09	1	Stabilised Site Access	NO

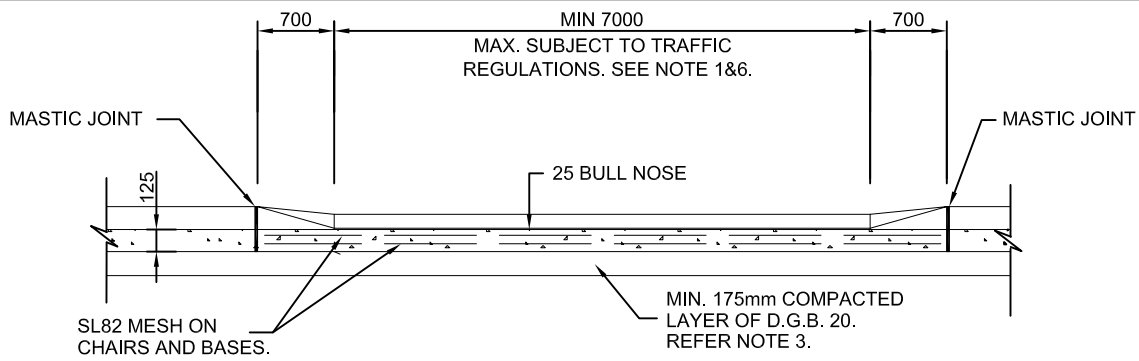


PLAN

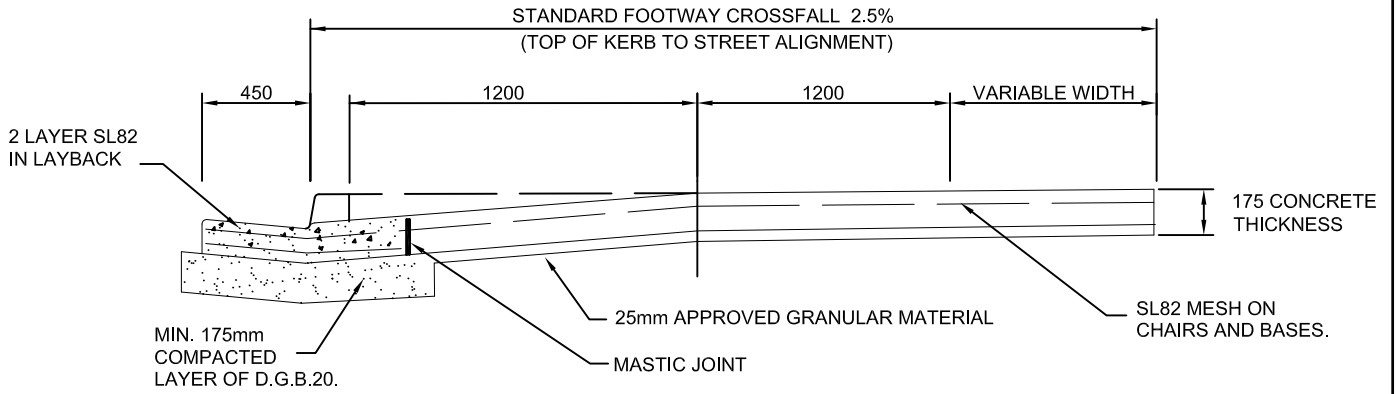
**NOTES:**

1. CROSSING LOCATIONS AND WIDTHS TO CONFORM WITH APPROVED PLANS.
2. DUMMY/KEY JOINTS OF APPROVED PROPRIETARY DESIGN SHALL BE PREPARED AS FOLLOWS:
  - 6m - 9m :- SINGLE CENTRAL JOINT
  - GREATER THAN 9m TWO JOINTS EQUALLY SPACED.
3. COMMERCIAL AND INDUSTRIAL VEHICULAR FOOTWAY CROSSINGS SHALL BE MINIMUM 175mm THICK CONCRETE, REINFORCED WITH SL82 MESH ON CHAIRS, 50mm COVER. A STRUCTURAL DESIGN IS REQUIRED FOR HEAVY INDUSTRIAL APPLICATION.
4. THE CONCRETE SHALL BE PLACED ON A 25mm LAYER OF APPROVED FINE, GRANULAR MATERIAL, EXCEPT UNDER THE KERB AND GUTTER LINE WHERE THIS SECTION SHALL BE PLACED ON A MINIMUM 175mm COMPACTED LAYER OF D.G.B 20.
5. MINIMUM WIDTH OF ENTRY IN INDUSTRIAL AT KERB LINE SHALL BE 7m PLUS WINGS.
6. MAXIMUM WIDTH OF ENTRY IN INDUSTRIAL AT KERB LINE IS SUBJECT TO TRAFFIC REGULATIONS, POLICY AND STANDARDS FOR TRAFFIC GENERATING DEVELOPMENTS.
7. EXISTING CONCRETE FOOTPATH SHALL BE SAW CUT EITHER SIDE OF THE CROSSING AND WHERE NECESSARY RECONSTRUCTED IN CONJUNCTION WITH THE CROSSING.
8. CONCRETE SHALL HAVE A 28 DAY STRENGTH (F<sub>c</sub>) OF 25MPa AND A SLUMP OF 80mm.
9. ANY VARIATIONS TO STANDARD CROSSFALL 2.5 % ON FOOTWAY SHALL HAVE THE PRIOR APPROVAL OF COUNCIL.
10. CONCRETE SHALL HAVE A LIGHT BROOM FINISH.
11. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.

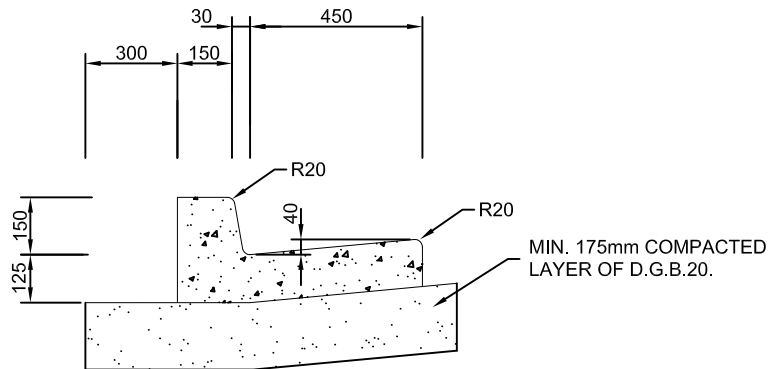
				 <b>campbelltown</b> city council		CHECKED: <b>W. Vandermeer</b> DATE: OCT 04	
B	MAR 2009	DIMENSIONS EDITED		AF	DW	PROJECT TITLE: <b>STANDARD DRAWINGS</b>	
A	OCT 2006	NOTES ADDED		AF	DW	APPROVED: <b>D. Webb</b> DATE: NOV 04	
REV.	DATE.	DESCRIPTION		CHECKED	APP'D.	SHEET	REV.
SHEET TITLE: <b>COMMERCIAL &amp; INDUSTRIAL VEHICLE CROSSING - PLAN</b>				STD DWG No. <b>SD-R10</b>		SCALE: <b>N.T.S</b>	SHEET <b>1 of 2</b>
						DATE: MAR 09	<b>VER2009</b>



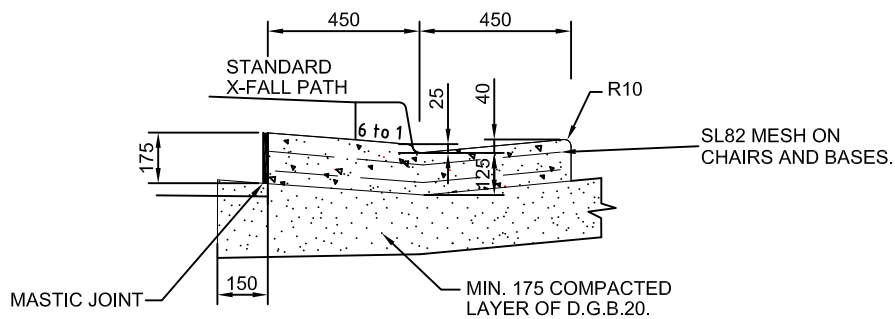
SECTION A - A



SECTION B - B

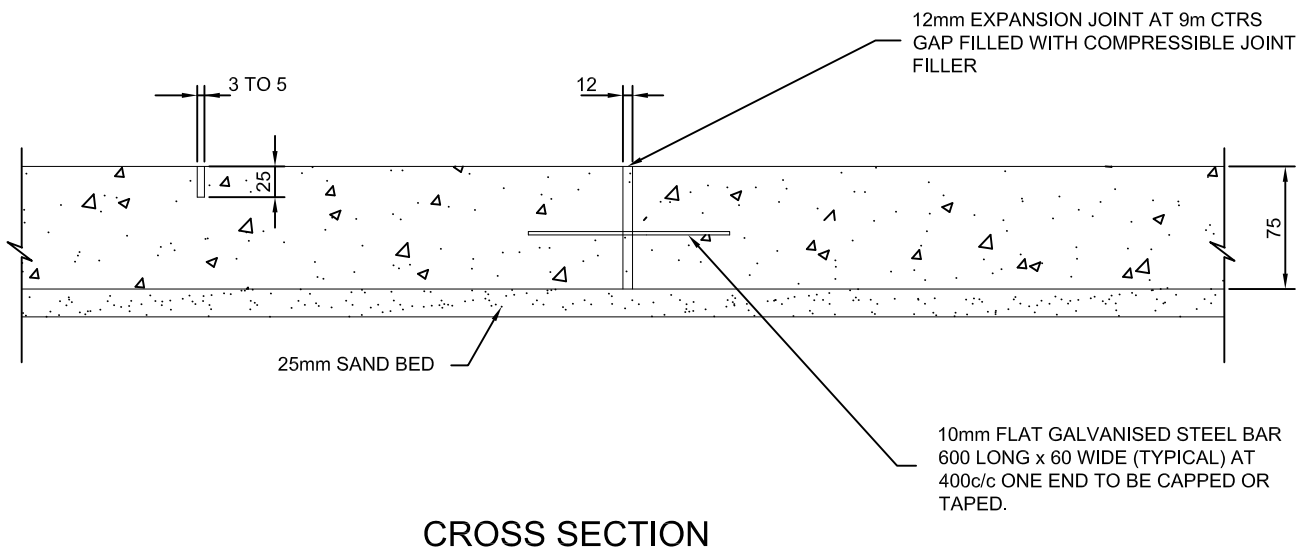
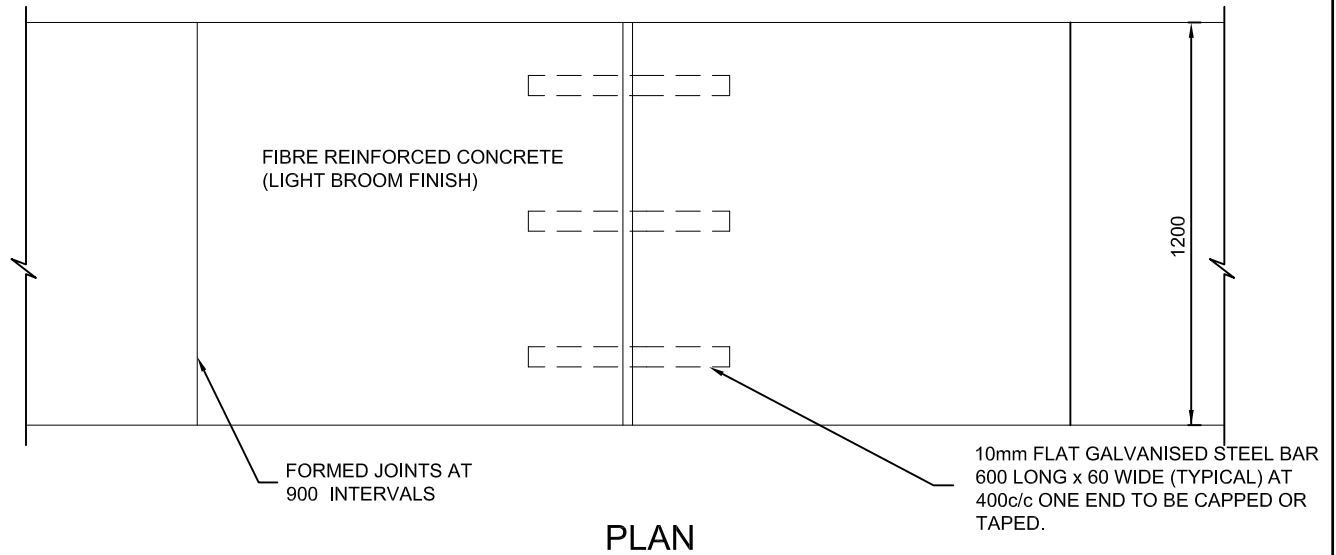


SECTION C - C



SECTION D - D

						CHECKED: W. Vandermeer DATE: OCT 04		
B	MAR 2009	DIMENSIONS EDITED	AF			DW	APPROVED: D. Webb DATE: OCT 04	
A	OCT 2006	NOTES ADDED	AF	DW	PROJECT TITLE: STANDARD DRAWINGS			
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STD DWG No.	SCALE:	SHEET	REV.
SHEET TITLE: <b>COMMERCIAL &amp; INDUSTRIAL          VEHICLE CROSSING - SECTIONS</b>				<b>SD-R10</b>		<b>N.T.S</b>	<b>2 of 2</b>	<b>VER2009</b> DATE: MAR 09




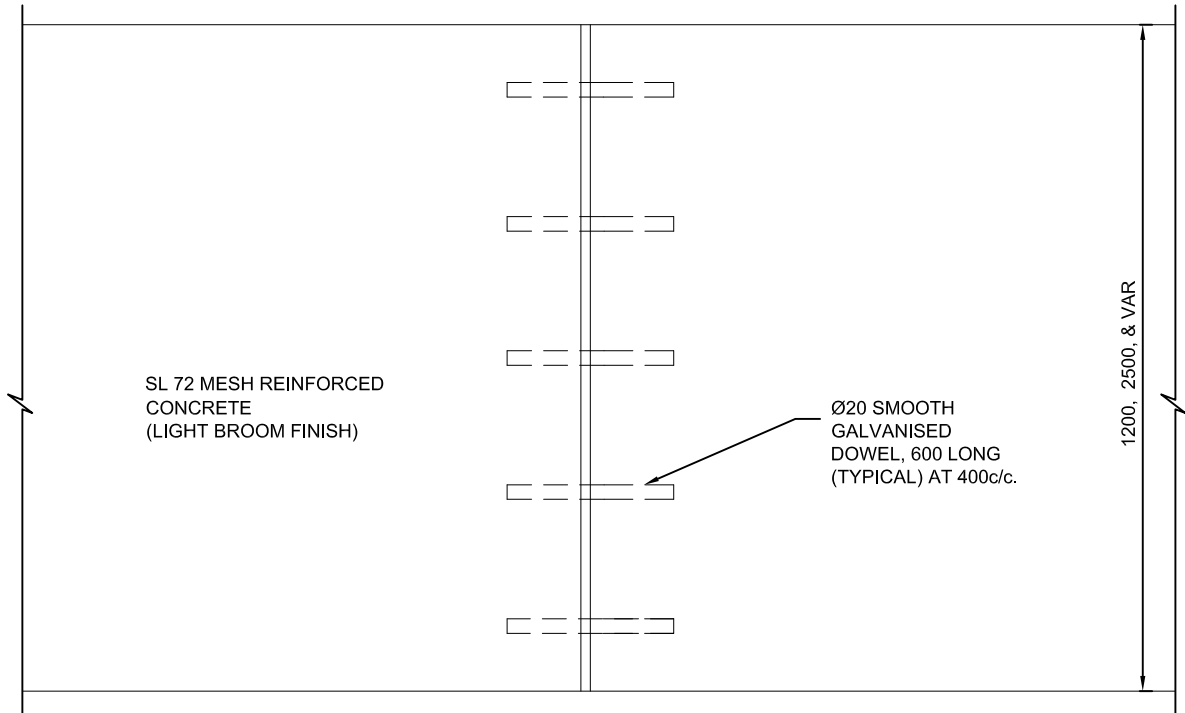
**NOTE:**

1. THE FIBRE REINFORCED CONCRETE SHALL BE PLACED ON A LAYER OF 25mm SAND BED
2. FIBRE REINFORCED CONCRETE SHALL HAVE A 28 DAY STRENGTH (F<sub>c</sub>) OF 25MPa.
3. ANY VARIATIONS TO STANDARD CROSSFALL, 2.5% ON FOOTPATH SHALL REQUIRE THE PRIOR APPROVAL OF COUNCIL'S ENGINEER.
4. FIBRE REINFORCED CONCRETE SHALL HAVE A LIGHT BROOM FINISH.
5. ALL DOWELS TO BE 600mm LONG WITH 300mm PENETRATION INTO EACH SLAB. ONE END CAPPED OR TAPED.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
7. EXPANSION JOINTS TO BE PLACED EVERY 9m.
8. FORMED CONTROL JOINTS 25mm DEEP AT 0.9m CTRS WITHIN 24 HOURS OF FINISHING CONCRETE
9. FOOTPATHS SHALL BE 75 THICK FIBRECRETE. FIBREMESH MULTI-DESIGNED (M.D.) COLLATED, FIBRILLATED FIBRES SHALL BE ADDED TO THE CONCRETE AT THE RATE OF 0.9kg PER CUBIC METRE OF CONCRETE AT THE BATCH PLANT & SHALL BE MIXED FOR A MINIMUM OF 5 MINUTES AFTER THE ADDITION OF FIBRES, TO ENSURE PROPER SEPARATION & DISTRIBUTION.

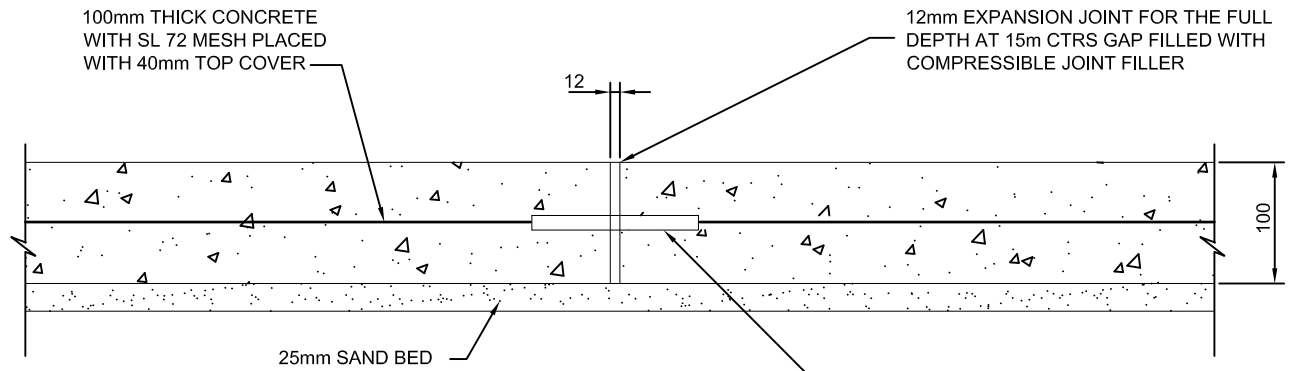
FIBREMESH IS TO COMPLY WITH THE FOLLOWING:

- FIBRE LENGTH - 12-19mm
- MELT POINT - 160°C- 170°C
- IGNITION POINT - 590°C
- TENSILE STRENGTH - 560-770 MPa
- MODULUS (YOUNGS) - 3500 MPa
- CONCRETE STRENGTH - 25 MPa

				 <b>campbelltown</b> city council		CHECKED: <b>W. Vandermeer</b> DATE: OCT 04	
A	MAR 2009	DOWEL BARS AMENDED		C.K.	D.J.W	APPROVED: <b>D. Webb</b> DATE: NOV 04	
---	MAY 2007	REVIEWED - NO CHANGES		A.F	D.J.W	PROJECT TITLE: <b>STANDARD DRAWINGS</b>	
REV.	DATE.	DESCRIPTION		CHECKED	APP'D.	SCALE:	SHEET
SHEET TITLE: <b>FOOTPATH</b>				STD DWG No. <b>SD-R11</b>		SCALE: <b>N.T.S</b>	SHEET <b>1 of 1</b>
						REV. <b>VER2009</b> DATE: MAR 09	




**PLAN**



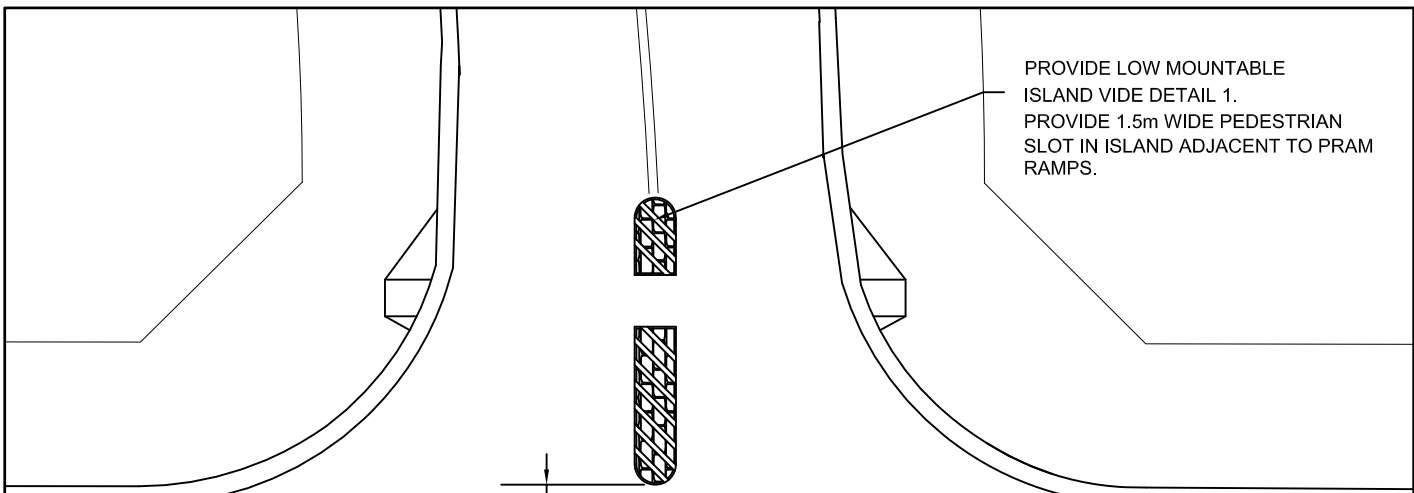
**CROSS SECTION**

**NOTE:**

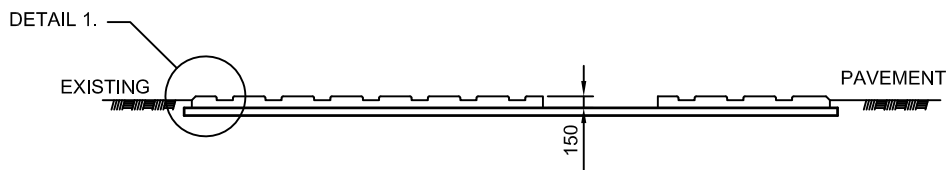
1. 100mm THICK CONCRETE LAYER SHALL BE PLACED ON A LAYER OF 25mm SAND BED
2. CONCRETE TO BE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 25MPa.
3. ANY VARIATIONS TO STANDARD CROSSFALL, 2.5% ON CYCLEWAY SHALL REQUIRE THE PRIOR APPROVAL OF COUNCIL'S ENGINEER
4. CONCRETE FINISH TO BE A LIGHT BROOM FINISH.
5. ALL DOWELLS TO BE 600mm LONG WITH 300mm PENETRATION INTO EACH SLAB. ONE END CAPPED OR TAPED.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
7. EXPANSION JOINTS TO BE PLACED EVERY 15m.
8. SAWCUT CONTROL JOINTS 30mm DEEP AT 3m CTRS WITHIN 24 HOURS OF FINISHING CONCRETE
9. BICYCLE PATH SHALL BE 100mm THICK CONCRETE WITH SL 72 MESH PLACED AT 40mm MINIMUM TOP COVER.
10. CONCRETE PATHS SHALL BE APPROPRIATELY CURED AFTER 24 HOURS CONTINUOUSLY FOR AT LEAST 3 DAYS UNDER AMBIENT CONDITIONS.

					 <b>campbelltown city council</b>		CHECKED: <b>W. Vandermeer</b> DATE: OCT 04	
					PROJECT TITLE: <b>STANDARD DRAWINGS</b>		APPROVED: <b>D. Webb</b> DATE: NOV 04	
REV.	DATE.	DESCRIPTION	CHECKED	APPD.	STD DWG No.	SCALE:	SHEET	REV.
A	DEC 06	SL 72 MESH ADDED & NOTES CHANGED & FOOTPATHS IN RESERVES ADDED	AF	DW	SD-R12	N.T.S	1 of 1	VER2007
SHEET TITLE: <b>OFF ROAD BICYCLE &amp; FOOT PATH'S</b>								DATE: MAY07

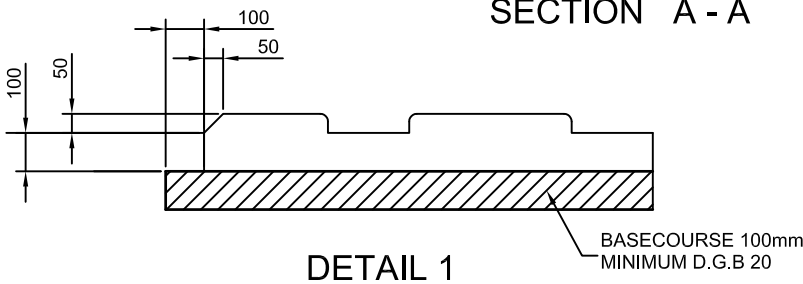
PROVIDE LOW MOUNTABLE ISLAND VIDE DETAIL 1.  
 PROVIDE 1.5m WIDE PEDESTRIAN SLOT IN ISLAND ADJACENT TO PRAM RAMPS.



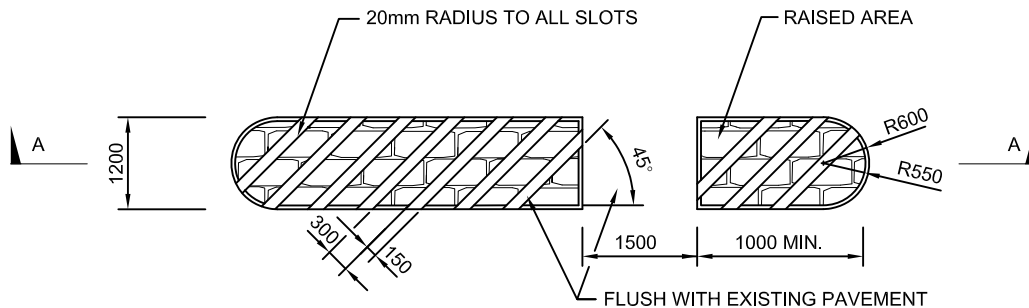
PLAN SHOWING LOCATION OF  
 LOW MOUNTABLE ISLAND



SECTION A - A




DETAIL 1



PLAN

NOTE:

1. THE FIBRE REINFORCED CONCRETE SHALL BE PLACED ON A LAYER OF 100mm D.G.B 20
  2. FIBRE REINFORCED CONCRETE SHALL HAVE A 28 DAY STRENGTH (F<sub>c</sub>) OF 32MPa.
  3. PROVIDE COBBLESTONE PATTERN OR SIMILAR TO ISLAND IN TERRACOTTA COLOUR OR APPROVED COLOUR.
  4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
  5. MOUNTABLE ISLAND SHALL BE 100 THICK FIBRECRETE, FIBREMESH MULTI-DESIGNED (M.D.) COLLATED, FIBRILLATED FIBRES SHALL BE ADDED TO THE CONCRETE AT THE RATE OF 0.9kg PER CUBIC METRE OF CONCRETE AT THE BATCH PLANT & SHALL BE MIXED FOR A MINIMUM OF 5 MINUTES AFTER THE ADDITION OF FIBRES, TO ENSURE PROPER SEPARATION & DISTRIBUTION.
- FIBREMESH IS TO COMPLY WITH THE FOLLOWING:
- FIBRE LENGTH - 12-19mm
  - MELT POINT - 160°C- 170°C
  - IGNITION POINT - 590°C
  - TENSILE STRENGTH - 560-770 MPa
  - MODULUS (YOUNGS) - 3500 MPa
  - CONCRETE STRENGTH - 32 MPa

				 <b>campbelltown</b> city council		CHECKED: W. Vandermeer DATE: OCT 04		
				PROJECT TITLE: <b>STANDARD DRAWINGS</b>		APPROVED: D. Webb DATE: NOV 04		
A	APR 2007	NOTES CHANGED	AF	DW				
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.				
SHEET TITLE: <b>LOW MOUNTABLE ISLAND</b>					STD DWG No. <b>SD-R13</b>		SCALE: <b>N.T.S</b>	
					SHEET <b>1 of 1</b>		REV. <b>VER2007</b> DATE: MAY07	



PROVIDE MOUNTABLE KERB  
SHAPE TO EDGE OF ISLAND  
ALL MOUNTABLE KERB FACES TO  
BE PAINTED REFLECTIVE WHITE

INSITU ISLAND TO BE  
DOWELLED INTO PAVEMENT  
AS SHOWN

160mm THICK FIBRE  
REINFORCED CONCRETE

12mm DOWELS @  
500mm CENTRES  
250mm LONG SET  
150mm INTO EXISTING

T.B ..... HOLDING LINE  
B.B ..... 2-WAY BARRIER LINES  
C.W.L ..... CONTINUOUS WHITE LINE

EXISTING PAVEMENT

### DETAIL A

PROVIDE B.B  
APPROX 30.0m WITH  
PAVEMENT MARKERS  
AT 3.0m CENTRES.



R 2-3 (L)

CENTRAL MEDIAN  
SEE NOTE 7

MAJOR R.600

MINOR ROAD R.600

PROVIDE PAVEMENT MARKERS AT  
3.0m CENTRES APPROX 20.0m

PROVIDE PRECAST RUMBLE BARS  
AND CHEVRON PAVEMENT AS SHOWN.



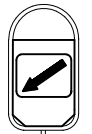
R 1-2

PROVIDE PRECAST  
RUMBLE BARS AND  
AND CHEVRON  
PAVEMENT AS SHOWN.

PROVIDE B.B  
APPROX 30.0m WITH  
PAVEMENT MARKERS  
AT 3.0m CENTRES.



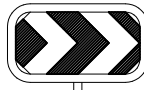
R5-400 (L)



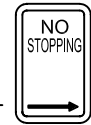
REFUGE BOLLARD  
OF C.C.C



R 2-3 (L)



HAZARD MARKER  
OF C.C.C



R5-400 (R)

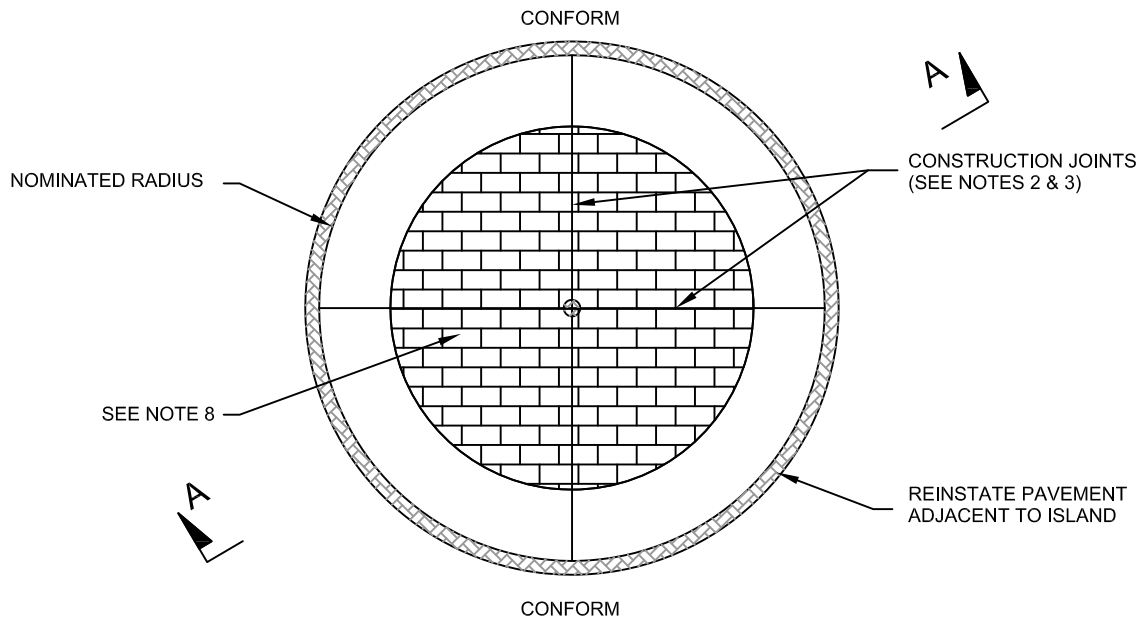


REFUGE BOLLARD  
OF C.C.C

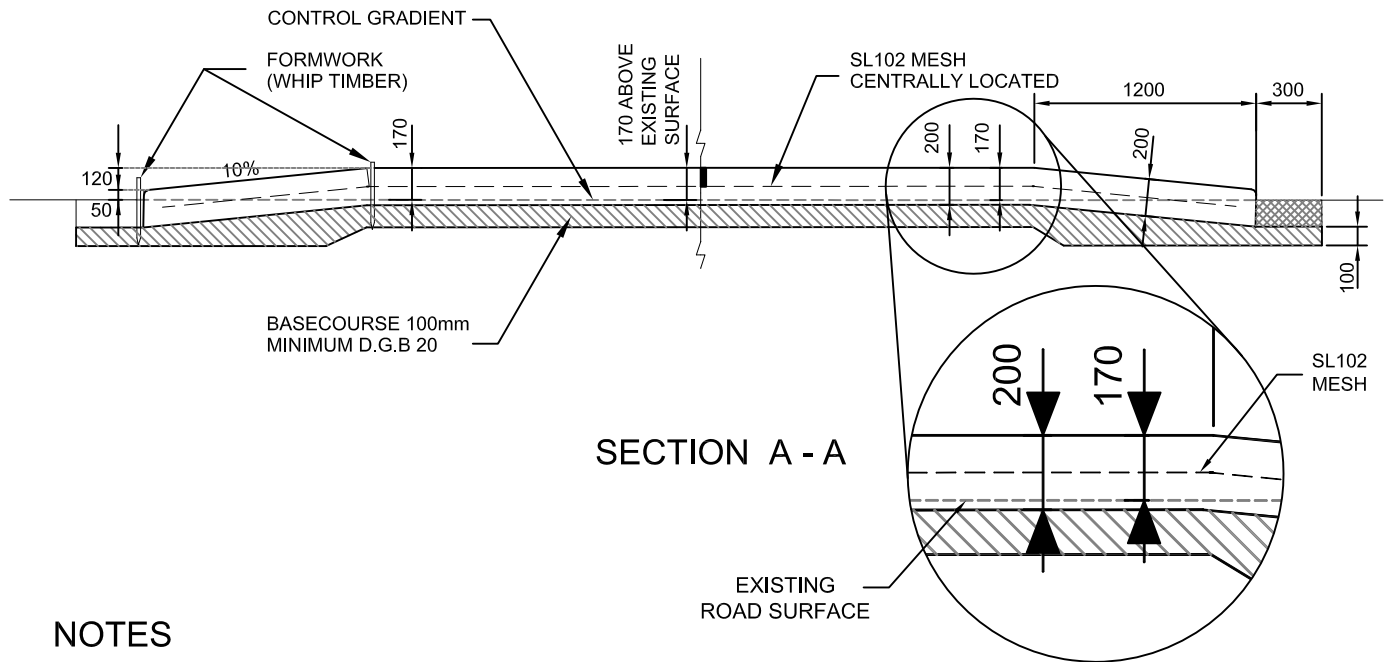
### NOTES

- ALL SERVICES TO BE CHECKED FOR LEVEL AND LOCATION PRIOR TO COMMENCEMENT OF WORK
- ALL SERVICES AFFECTED BY NEW WORK TO BE ADJUSTED TO SUIT IN FIELD
- ALL KERB FACES TO BE PAINTED WITH WHITE REFLECTORISED PAINT (THERMO PLASTIC)
- ALL PAINT WORK TO BE COMPLETED ON DAY OF CONSTRUCTION
- ALL LINEMARKING AND SIGNPOSTING TO BE IN ACCORDANCE WITH 'INTERIM GUIDE TO SIGNS AND MARKINGS' (RTA) AND A.S.1742
- PROVIDE 'CHANGED TRAFFIC CONDITIONS AHEAD' SIGNS ON ALL APPROACHES TO FACILITY
- CONCRETE MEDIAN TO HAVE 160mm HIGH MOUNTABLE KERB SHAPE TO ALL FACES.
- CONCRETE KERBSIDE ISLAND TO HAVE 150mm HIGH BARRIER KERB SHAPE TO ALL FACES.
- ALL ISLAND AND MEDIANS SHALL BE FIBRECRETE, FIBREMESH MULTI-DESIGNED (M.D.) COLLATED, FIBRILLATED FIBRES SHALL BE ADDED TO THE CONCRETE AT THE RATE OF 0.9kg PER CUBIC METRE OF CONCRETE AT THE BATCH PLANT & SHALL BE MIXED FOR A MINIMUM OF 5 MINUTES AFTER THE ADDITION OF FIBRES, TO ENSURE PROPER SEPARATION & DISTRIBUTION.  
FIBREMESH IS TO COMPLY WITH THE FOLLOWING:
  - FIBRE LENGTH - 12-19mm
  - MELT POINT - 160°C- 170°C
  - IGNITION POINT - 590°C
  - TENSILE STRENGTH - 560-770 MPa
  - MODULUS (YOUNGS) - 3500 MPa
  - CONCRETE STRENGTH - 32 MPa
- GEOMETRY OF INTERSECTION SUBJECT TO CHANGE PENDING DETAIL SURVEY & DESIGN.
- PROVIDE COBBLESTONE PATTERN OR SIMILAR TO CONCRETE MEDIAN & ISLANDS IN TERRACOTTA COLOUR OR APPROVED COLOUR.
- PROVIDE CENTRAL CONCRETE MEDIAN IF SPECIFIED ON CONTROL PLAN
- DETAIL OF ASSOCIATED LINEMARKING & SIGNPOSTING TO BE SHOWN ON CONTROL PLAN OR IN ACCORDANCE WITH R.T.A STANDARD TREATMENT
- PROVIDE PRAM RAMP TO COUNCIL STANDARD

						CHECKED:	
						W. Vandermeer	
						DATE: OCT 04	
--- MAY 2007 REVIEWED - NO CHANGES A.F D,W				PROJECT TITLE:		APPROVED:	
REV. DATE. DESCRIPTION CHECKED APP'D.				<b>STANDARD DRAWINGS</b>		<b>D. Webb</b>	
				STD DWG No.		DATE: NOV 04	
SHEET TITLE:				SCALE:		SHEET	
<b>T - INTERSECTION TREATMENT</b>				<b>SD-R14</b>		<b>1 of 1</b>	
						REV.	
						<b>VER2007</b>	
						DATE: MAY07	



PLAN

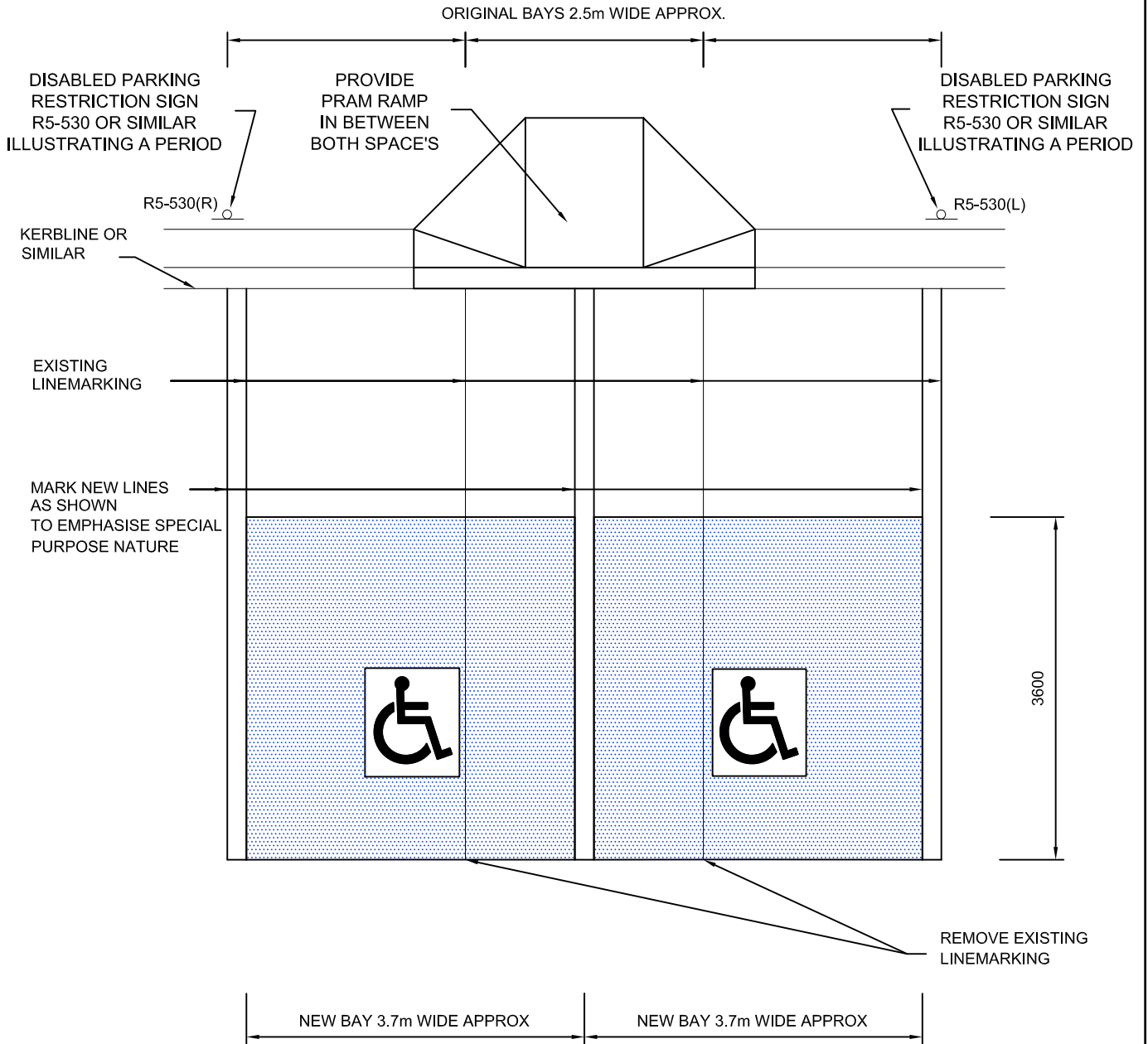


SECTION A - A

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. ISLAND MAY BE POURED IN HALVES PENDING SIZE
3. PROVIDE MASTIC JOINT TO TOP HALF OF SLAB, MESH TO CONTINUE THROUGH JOINT
4. BOX OUT CENTRAL ISLAND AREA AS SHOWN. REMOVE & REPLACE UNSOUND SUBGRADE IF REQUIRED.
5. PROVIDE MINIMUM 100mm D.G.B.20 BASE, SHAPE & COMPACT TO 100% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH A.S.1289.5.1.1.
6. ISLAND TO BE CONSTRUCTED IN QUADRANTS (SEE NOTE 2.)
7. CONSTRUCT ALL ISLANDS & MEDIANS USING FIBRE REINFORCED CONCRETE WITH MINIMUM STRENGTH OF 32MPa AND SLUMP OF 60mm.
8. PROVIDE COBBLESTONE PATTERN OR SIMILAR TO CONCRETE MEDIAN & ISLANDS IN TERRACOTTA COLOUR OR APPROVED COLOUR.
9. DETAIL OF ASSOCIATED LINEMARKING & SIGNPOSTING TO BE SHOWN ON DESIGN PLAN OR IN ACCORDANCE WITH R.T.A STANDARD TREATMENT

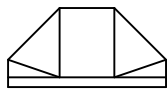
						CHECKED: <b>W. Vandermeer</b> DATE: OCT 04	
A	MAR 2009	DIMENSIONS CLARIFIED		A,F	D,J,W	APPROVED: <b>D. Webb</b> DATE: NOV 04	
--	MAY 2007	REVIEWED - NO CHANGES		A,F	D,J,W	PROJECT TITLE: <b>STANDARD DRAWINGS</b>	
REV.	DATE.	DESCRIPTION		CHECKED	APP'D.	SHEET <b>1 of 1</b>	
SHEET TITLE: <b>ROUNABOUTS</b>				STD DWG No. <b>SD-R15</b>		SCALE: <b>N.T.S</b>	
						REV. <b>VER2009</b> DATE: MAR 09	



STANDARD DISABLED WHEELCHAIR LOGO (AS 1428.1) TO GO HERE



NEW BAYS PAINTED BLUE WHERE SHOWN

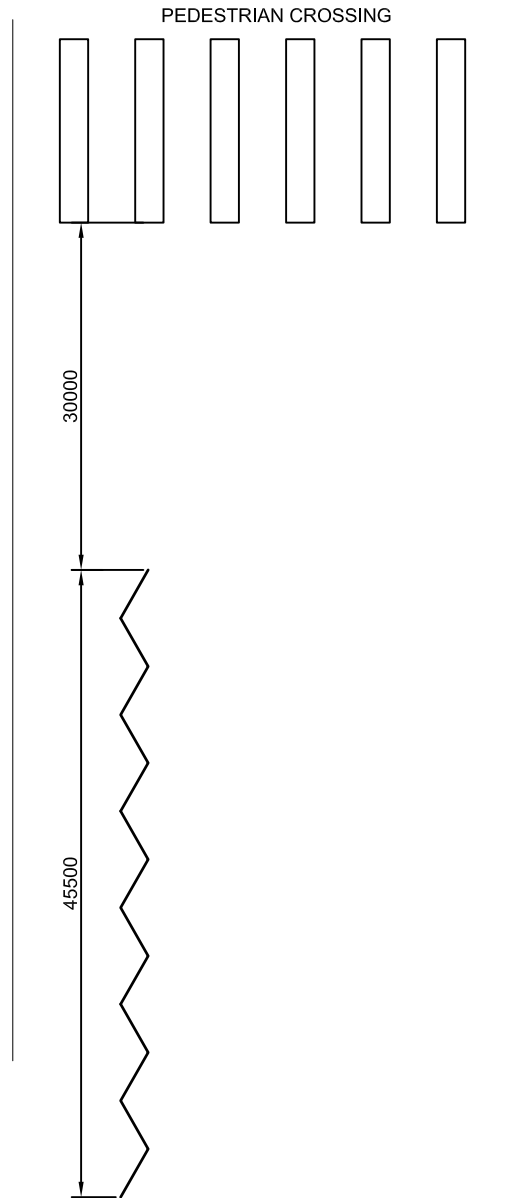
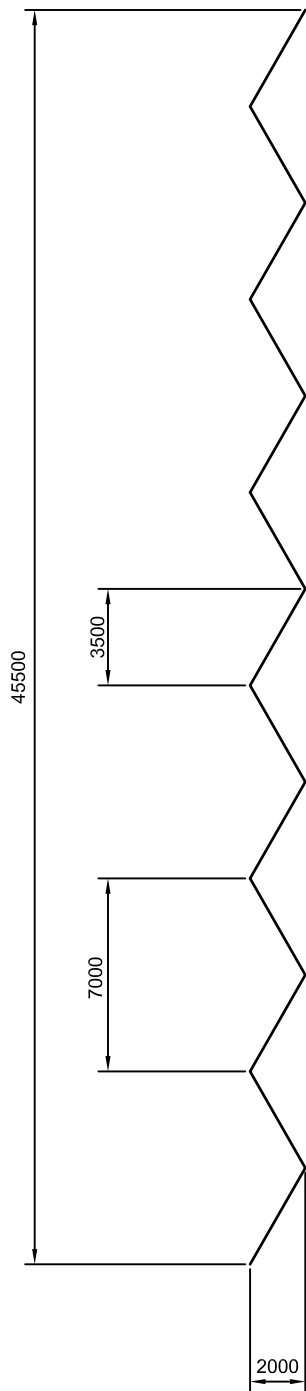


CONSTRUCT PRAM RAMP VIDE COUNCIL STANDARD SD-R07

**NOTE :**


1. BAYS PARALLEL TO KERB TO BE PAINTED BLUE IN TOTAL
2. PAINT IS TO CONFORM WITH 'INTERIM GUIDE TO SIGNS & MARKINGS' - QA SPECIFICATION R141 (RTA) & AS1742.
3. PROVIDE PRAM RAMP EVEN IF ONLY 1 DISABLED PERSONS PARKING BAY IS CREATED

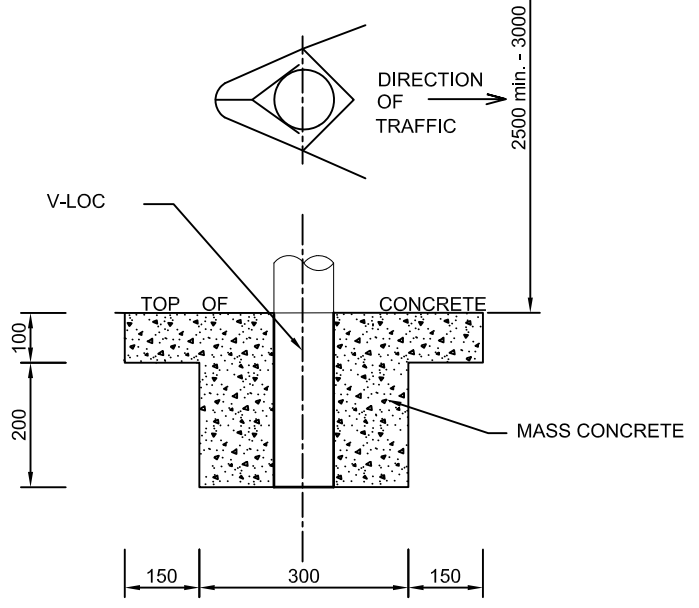
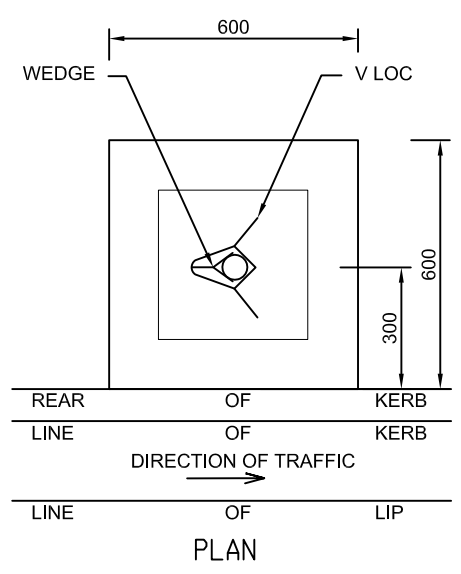
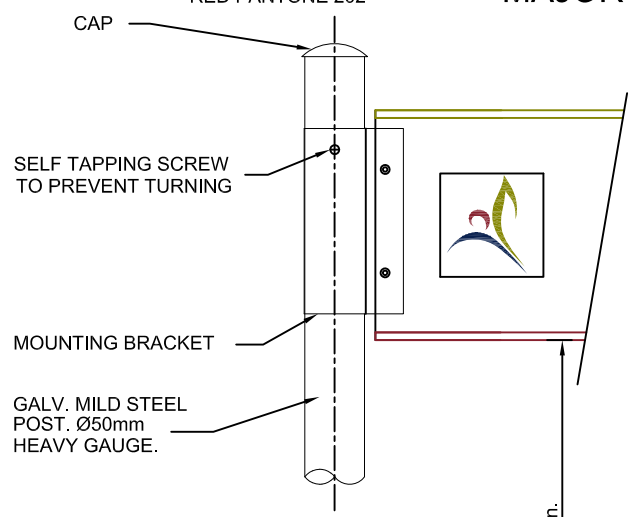
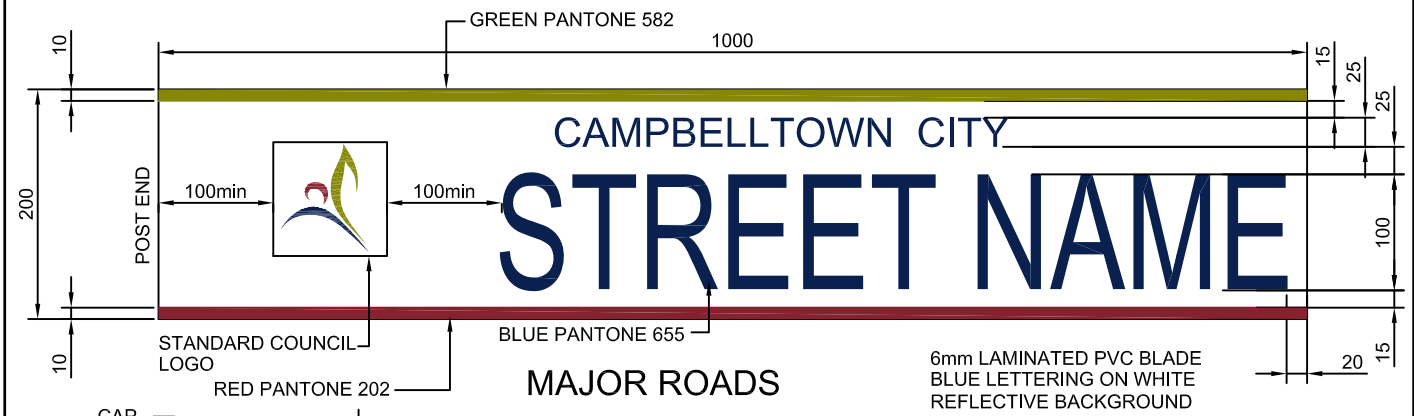
						CHECKED: <b>W. Vandermeer</b> DATE: OCT 04		
				PROJECT TITLE: <b>STANDARD DRAWINGS</b>		APPROVED: <b>D. Webb</b> DATE: NOV 04		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STD DWG No.	SCALE:	SHEET	REV.
A	MAY 2007	ADDITION OF PRAM RAMP AND ASSOCIATED NOTES	A,F	D,W	SD-R16	N.T.S	1 of 1	VER2007
SHEET TITLE: <b>PARKING MODIFICATION TO PROVIDE DISABLED PERSONS PARKING</b>								DATE: MAY07



**NOTE:**

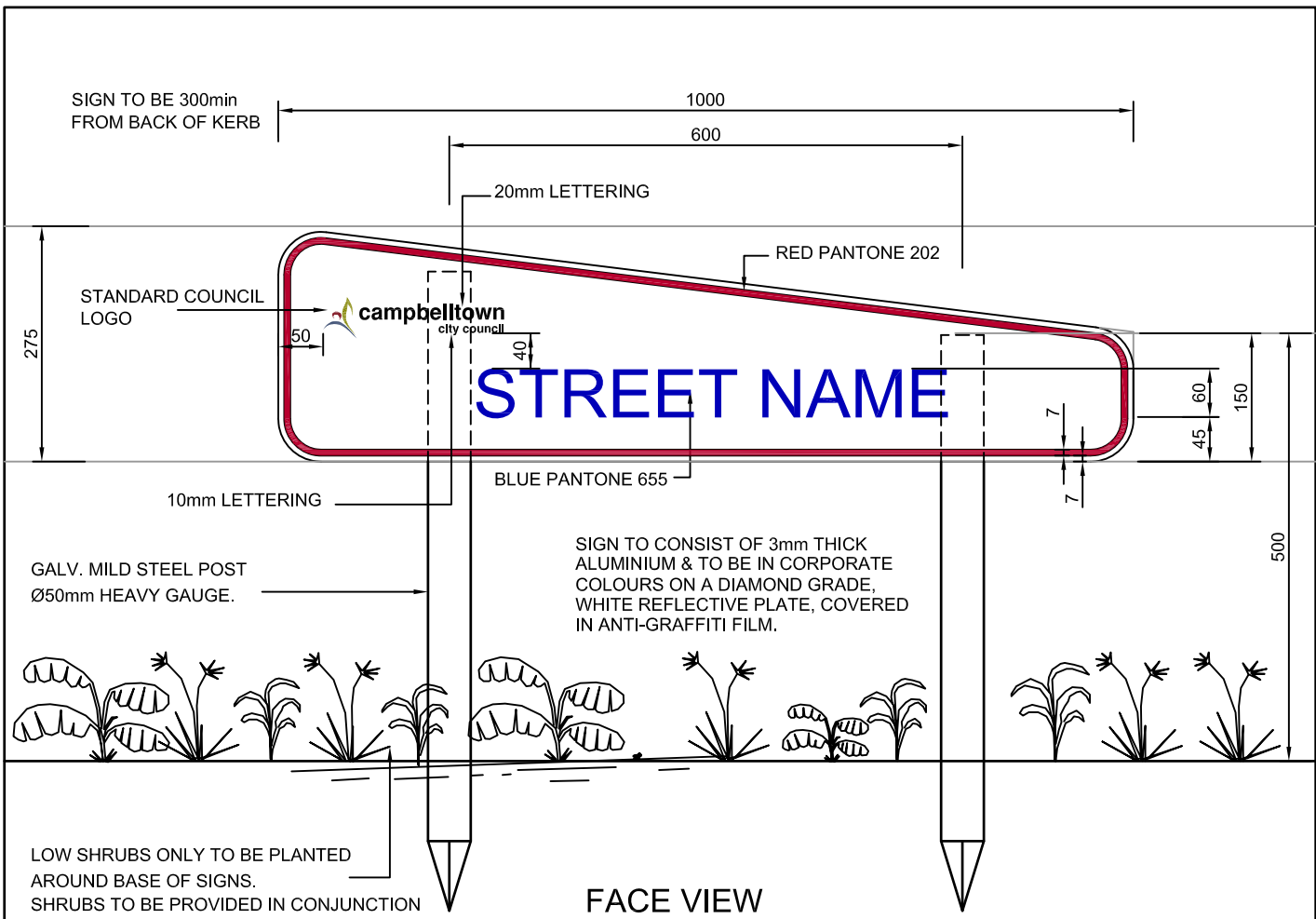
1. ZIG ZAGS TO START 75.5m FROM MARKED PEDESTRIAN CROSSING. FIRST DIAGONAL LINE IS FROM LEFT TO RIGHT.
2. ZIG ZAG TO BE 100mm WHITE UNBROKEN LINE.
3. PAINT IS TO CONFORM WITH 'INTERIM GUIDE TO SIGNS & MARKINGS' - QA SPECIFICATION R141 (RTA) & AS1742.
4. ZIG ZAG TO BE LOCATED CENTRALLY WITHIN APPROACH LANE.

						CHECKED: <b>W. Vandermeer</b> DATE: OCT 04				
						PROJECT TITLE: <b>STANDARD DRAWINGS</b>		APPROVED: <b>D. Webb</b> DATE: NOV 04		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	SHEET TITLE:		STD DWG No.	SCALE:	SHEET	REV.
--	MAY 2007	REVIEWED - NO CHANGES	A.F	D.W	<b>ZIG ZAG PAVEMENT MARKERS</b>		<b>SD-R17</b>	<b>N.T.S</b>	<b>1 of 1</b>	<b>VER2007</b>
										DATE: MAY07



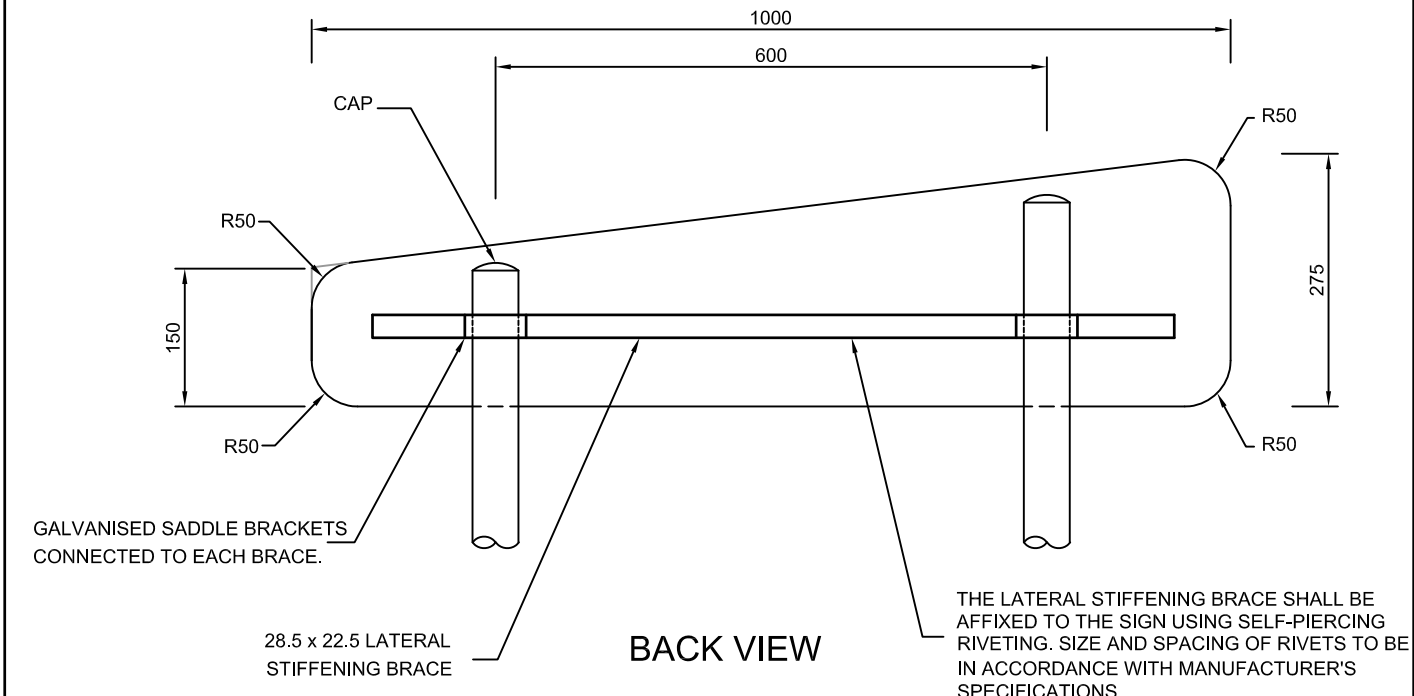
**NOTE:** ALTERNATIVE POSTS CAN BE SECURED INTO SOIL USING A PIN OR WEDGE LOCKING SYSTEM.

						CHECKED:	
						W. Vandermeer	
---	MAY 2007	REVIEWED - NO CHANGES	AJ	DJW	PROJECT TITLE:		APPROVED:
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STANDARD DRAWINGS		D. Webb
				STD DWG No.		SCALE:	SHEET
SHEET TITLE:				SD-R18		N.T.S	1 of 1
STREET SIGN							REV.
							VER2007
							DATE: MAY07

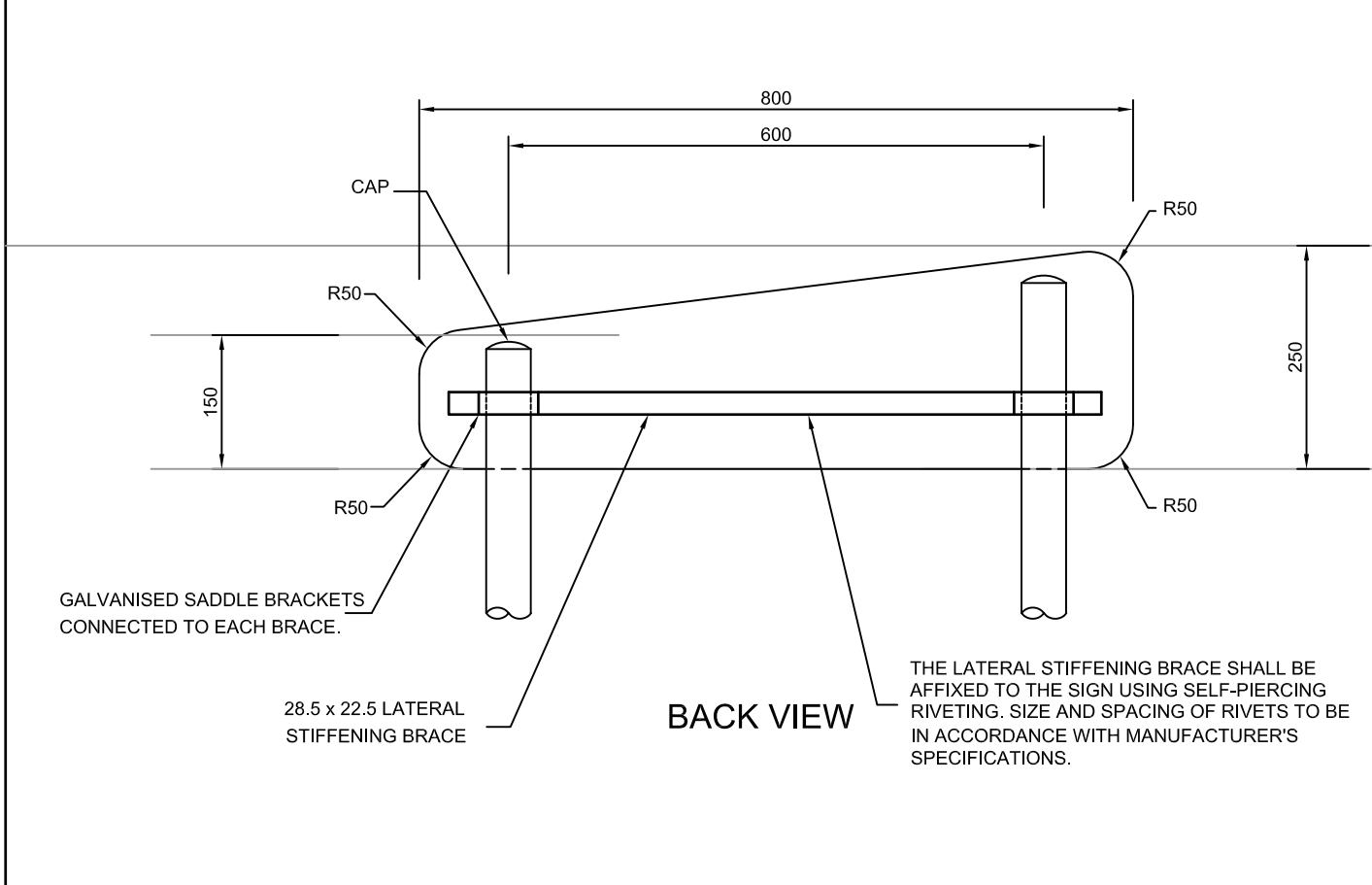
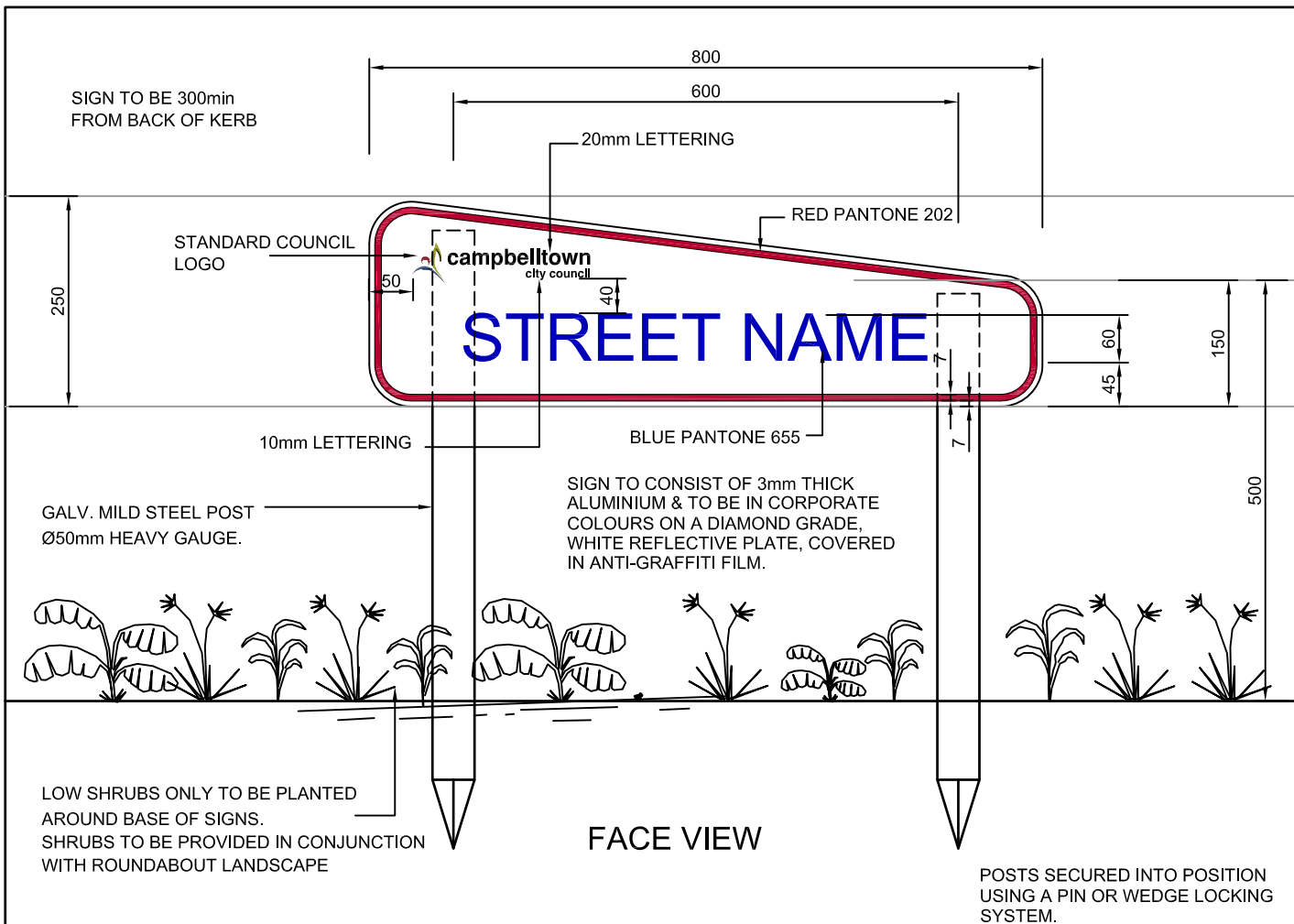


FACE VIEW

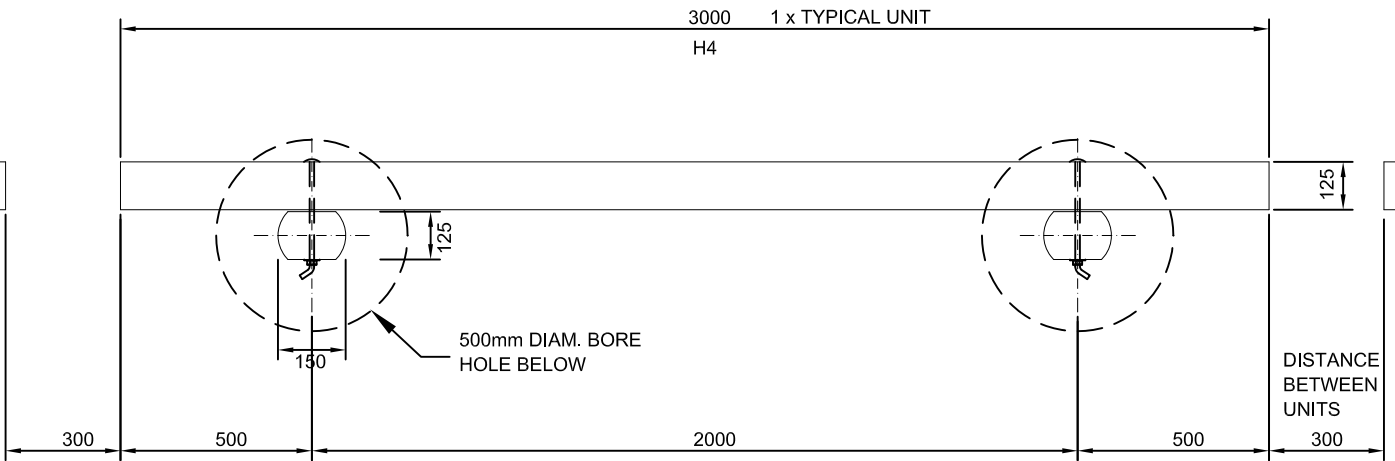
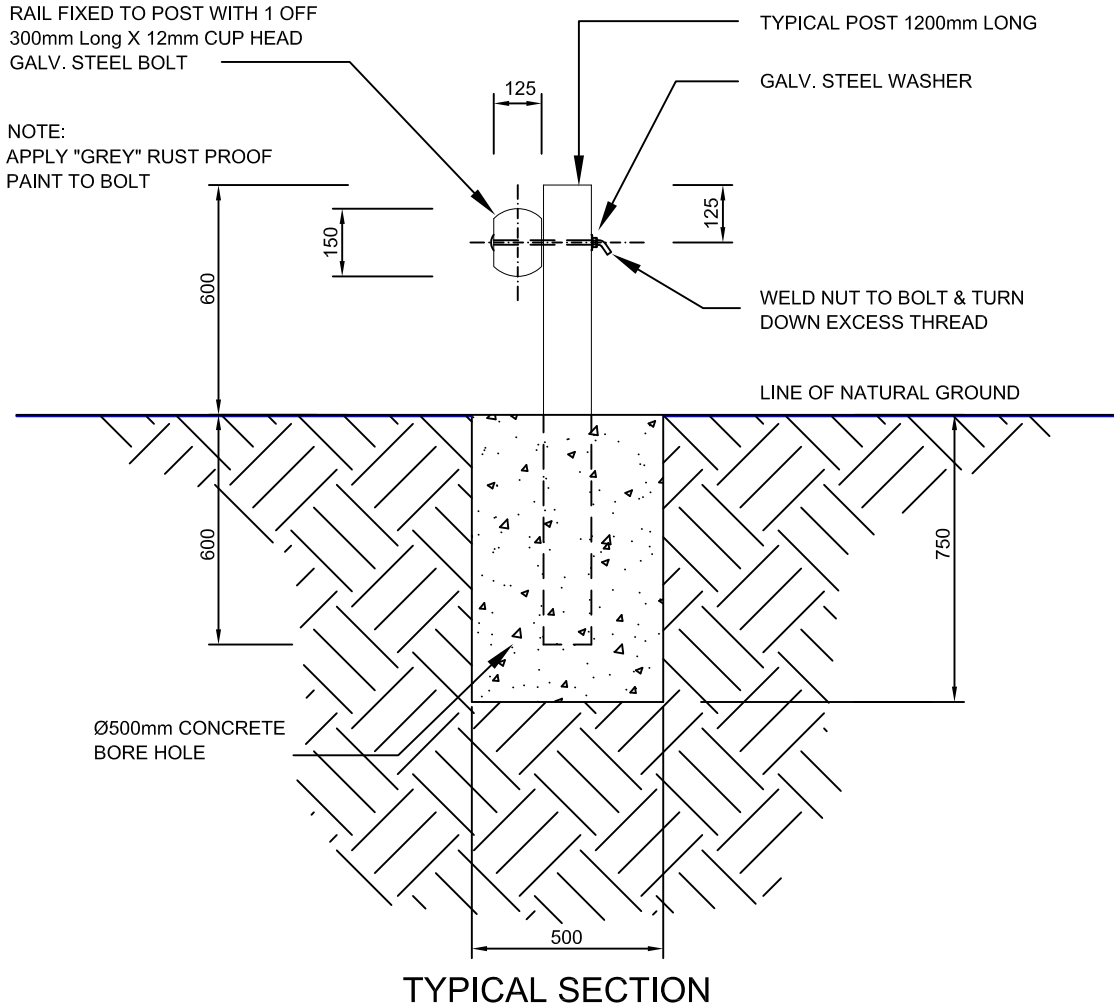
POSTS SECURED INTO POSITION USING A PIN OR WEDGE LOCKING SYSTEM.



						CHECKED: <b>W. Vandermeer</b> DATE: OCT 04		
				PROJECT TITLE: <b>STANDARD DRAWINGS</b>		APPROVED: <b>D. Webb</b> DATE: NOV 04		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STD DWG No.	SCALE:	SHEET	REV.
--	MAY 2007	REVIEWED - NO CHANGES	A.F	D.W	SD-R19	N.T.S	1 of 2	VER2007
SHEET TITLE: 1000 LONG SUPPLEMENTARY ROAD NAME SIGNPOSTING FOR ROUNDABOUTS								DATE: MAY07



						CHECKED: <b>W. Vandermeer</b> DATE: OCT 04		
				PROJECT TITLE: <b>STANDARD DRAWINGS</b>		APPROVED: <b>D. Webb</b> DATE: NOV 04		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STD DWG No.	SCALE:	SHEET	REV.
--	MAY 2007	REVIEWED - NO CHANGES	A.F.	D.W.	SD-R19	N.T.S	2 of 2	VER2007
SHEET TITLE: 800 LONG SUPPLEMENTARY ROAD NAME SIGNPOSTING FOR ROUNDABOUTS								DATE: MAY07



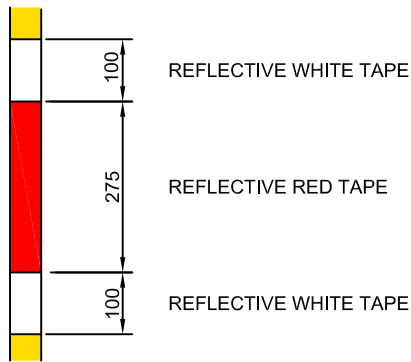
PLAN  
TREATED PINE LOG VEHICLE BARRIER

NOTES

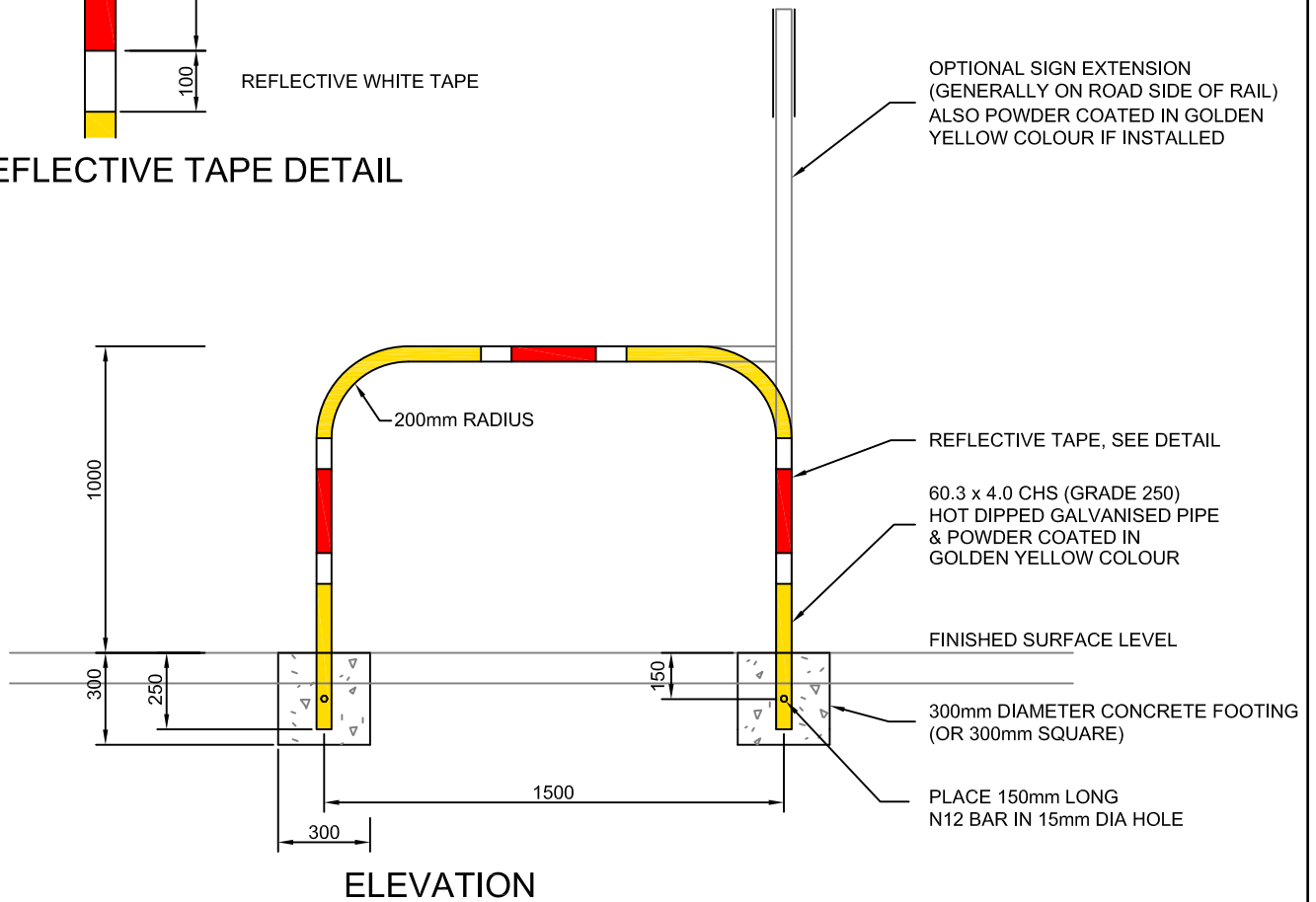
1. THE TIMBER LOGS SHALL BE TREATED TO PROTECT AGAINST TERMITE ATTACK & DECAY. THE PRESERVATIVE CHEMICALS USED SHOULD PRESENT NO HAZARD TO HUMANS, DOMESTIC ANIMALS OR PLANTS COMING IN CONTACT WITH THE TIMBER. ALL CUT ENDS TO BE EXPOSED & COATED WITH A COPPER BASED RESEALING SOLUTION, CONTAINING AT LEAST 20g/LITRE AS ZINC OR COPPER ELEMENTAL METAL.
2. CONCRETE TO BE 25MPa @ 28 DAYS.

				<p><b>campbelltown</b> city council</p>		CHECKED:			
						W. Vandermeer		DATE: OCT 04	
A	MAR 2009	DIMENSION AMENDED, TIMBER LOG SIZE INCREASED	A.F	D.W	PROJECT TITLE:		APPROVED:		
--	MAY 2007	REVIEWED - NO CHANGES	A.F	D.W	STANDARD DRAWINGS		D. Webb		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STD DWG No.		DATE: NOV 04		
SHEET TITLE:				SCALE:		SHEET		REV.	
LOG VEHICLE BARRIER				SD-R20		N.T.S		1 of 1	
								VER2009	
								DATE: MAR 09	

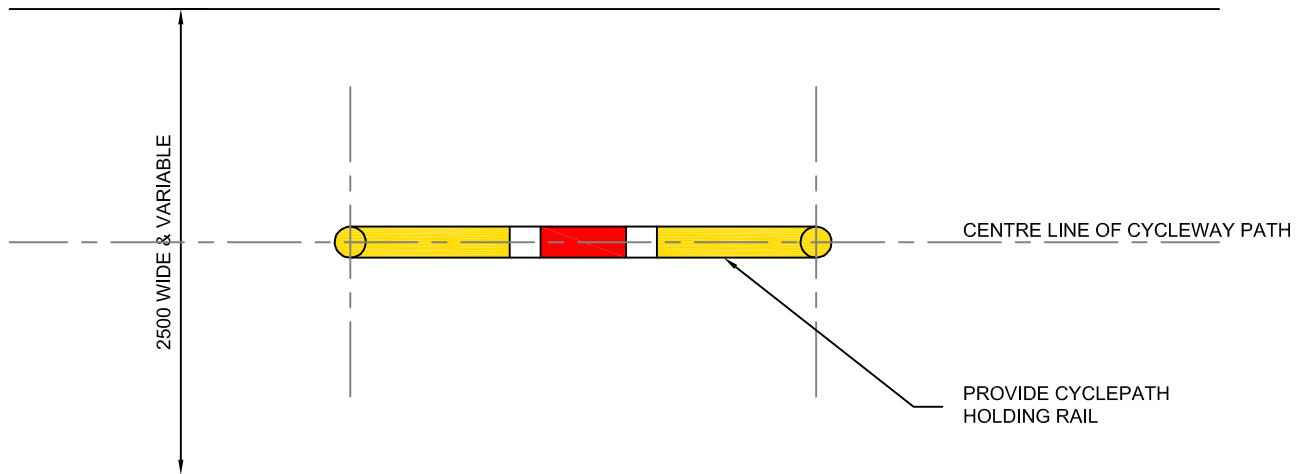




**REFLECTIVE TAPE DETAIL**



**ELEVATION**



**PLAN**

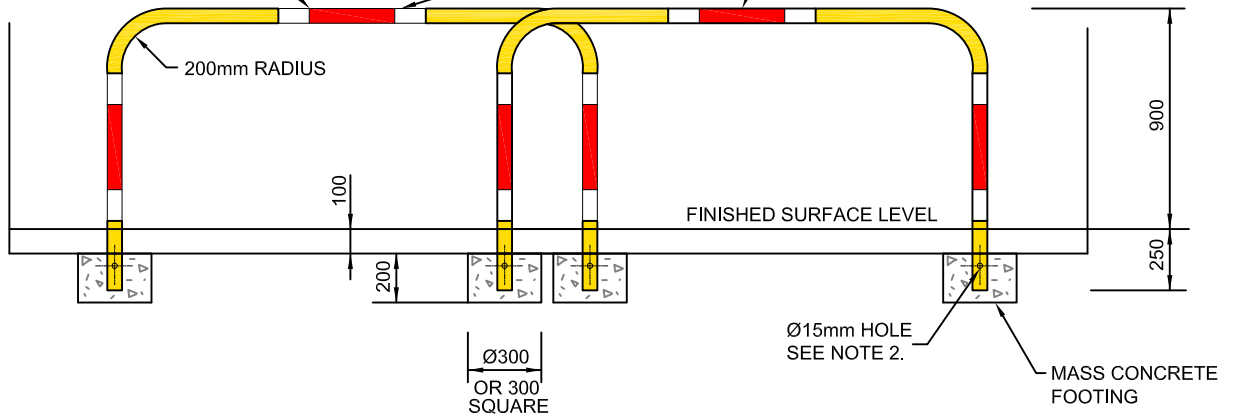
**NOTE:**

1. CONCRETE TO BE 25MPa @ 28 DAYS.

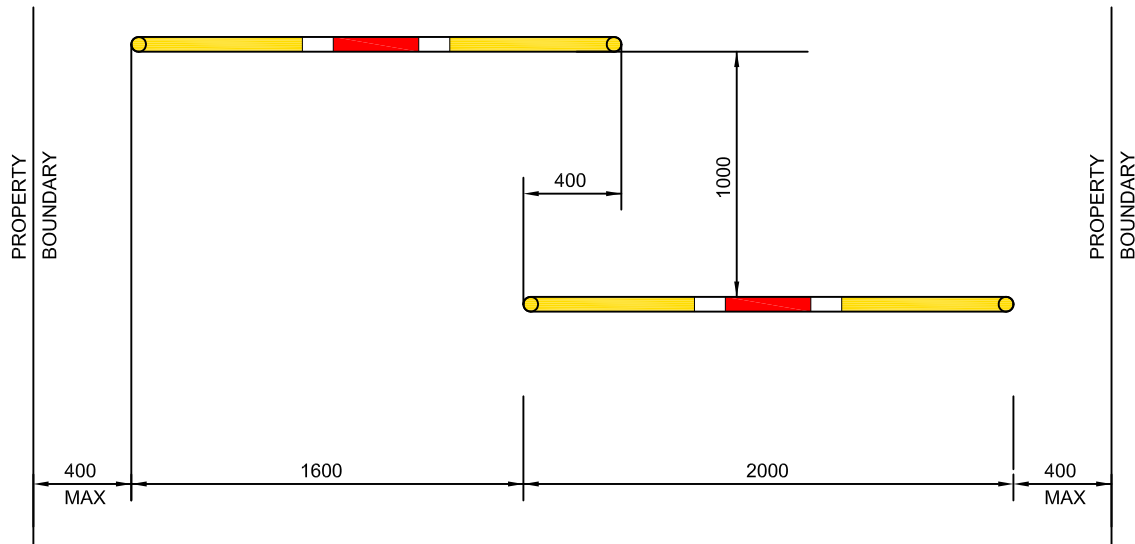
						CHECKED: <b>W. Vandermeer</b> DATE: OCT 04	
						APPROVED: <b>D. Webb</b> DATE: NOV 04	
A	MAY 2007	ADDITION OF COLOUR AND ASSOCIATED NOTES	AJ	D.W	PROJECT TITLE: <b>STANDARD DRAWINGS</b>		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STD DWG No. <b>SD-R21</b>	SCALE: <b>N.T.S</b>	SHEET <b>1 of 1</b>
SHEET TITLE: <b>CYCLEPATH HOLDING RAIL</b>					DATE: MAY07		REV. <b>VER2007</b>

60.3 x 4.0 CHS (GRADE 250)  
HOT DIPPED GALVANISED PIPE.  
& POWDER COATED IN  
GOLDEN YELLOW COLOUR

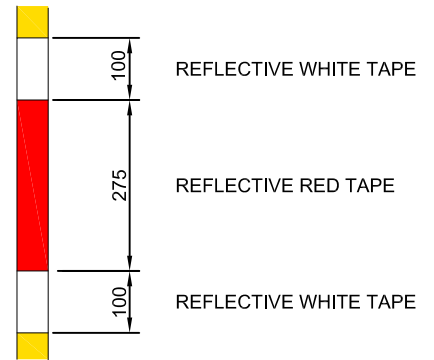
REFLECTIVE TAPE, ON BOTH  
RAILS. SEE DETAIL



ELEVATION



PLAN



REFLECTIVE TAPE DETAIL

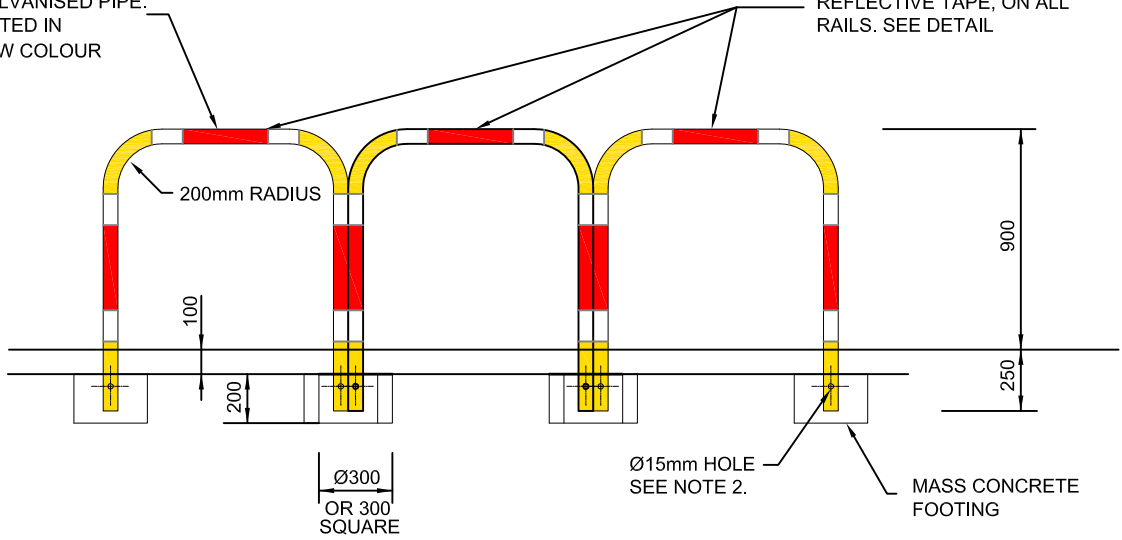
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. PLACE N12 BAR 150mm LONG IN HOLE BEFORE FIXING INTO PLACE
3. CONCRETE TO BE 25MPa @ 28 DAYS.
4. ALL STEELWORK TO BE HOT DIPPED GALVANISED.

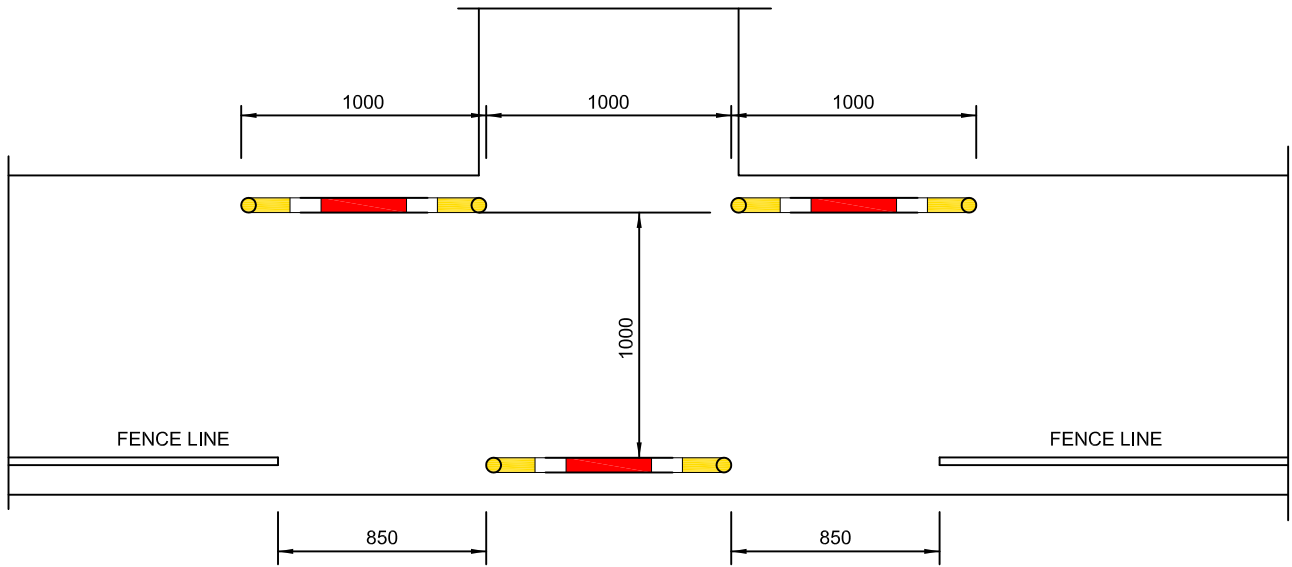
				<p><b>campbelltown</b> city council</p>		CHECKED:		
						W. Vandermeer		DATE: OCT 04
A	MAY 2007	ADDITION OF COLOUR AND ASSOCIATED NOTES	A.F	D.W	PROJECT TITLE:		APPROVED:	
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STANDARD DRAWINGS		D. Webb	
SHEET TITLE:					STD DWG No.		SHEET	
LANEWAY BAULK					SD-R22		1 of 1	
					SCALE:		REV.	
					N.T.S		VER 2007	
							DATE: MAY07	

60.3 x 4.0 CHS (GRADE 250)  
HOT DIPPED GALVANISED PIPE.  
& POWDER COATED IN  
GOLDEN YELLOW COLOUR

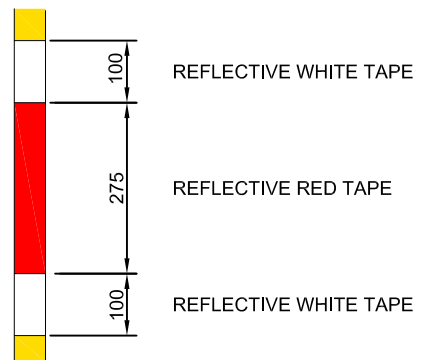
REFLECTIVE TAPE, ON ALL  
RAILS. SEE DETAIL



ELEVATION



PLAN

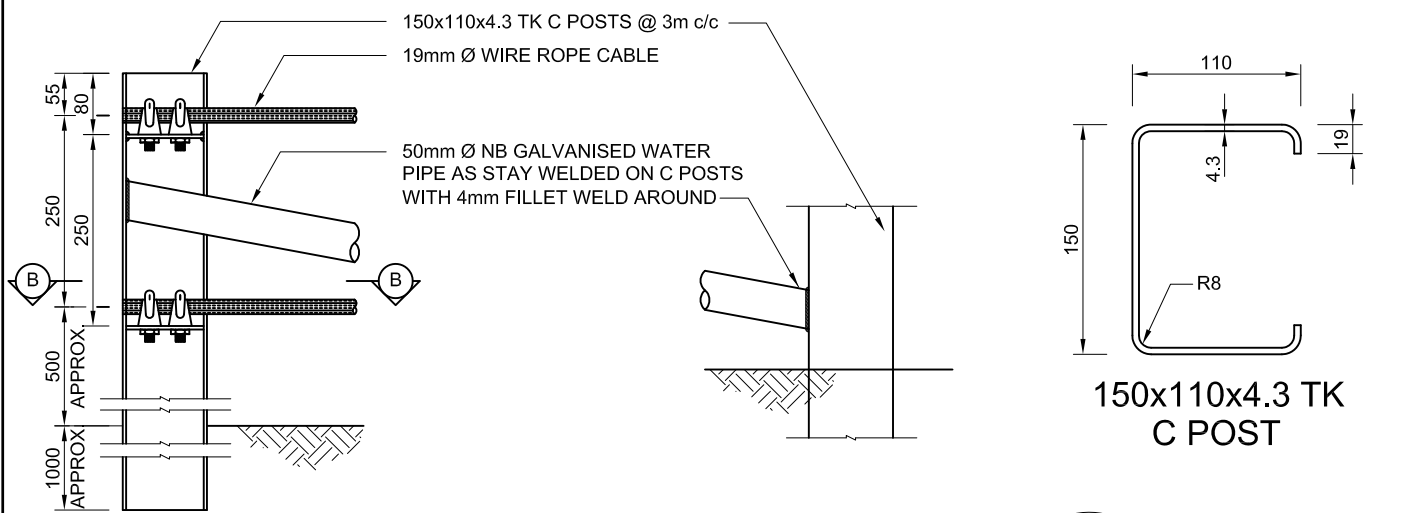


REFLECTIVE TAPE DETAIL

NOTES:

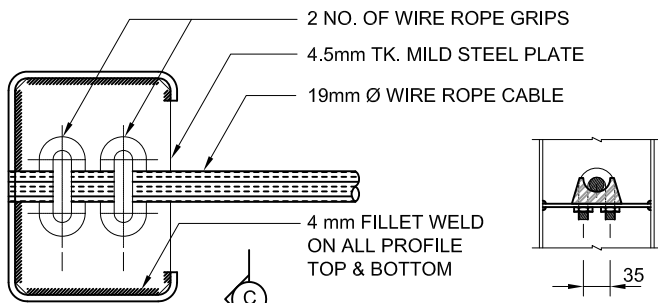
1. ALL DIMENSIONS ARE IN MILLIMETRES
2. PLACE N12 BAR 150mm LONG IN HOLE BEFORE FIXING INTO PLACE
3. CONCRETE TO BE 25MPa @ 28 DAYS.
4. ALL STEELWORK TO BE HOT DIPPED GALVANISED.

				<p><b>campbelltown</b> city council</p>		CHECKED: <b>W. Vandermeer</b> DATE: OCT 04		
						PROJECT TITLE: <b>STANDARD DRAWINGS</b>		APPROVED: <b>D. Webb</b> DATE: NOV 04
A	MAY 2007	ADDITION OF COLOUR AND ASSOCIATED NOTES	A,F	D,W				
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.				
SHEET TITLE: <b>PATHWAY BAULK</b>					STD DWG No. <b>SD-R23</b>		SCALE: <b>N.T.S</b>	
					SHEET <b>1 of 1</b>		REV. <b>VER 2007</b> DATE: MAY07	



DETAIL '1'

DETAIL '2'



SECTION B - B

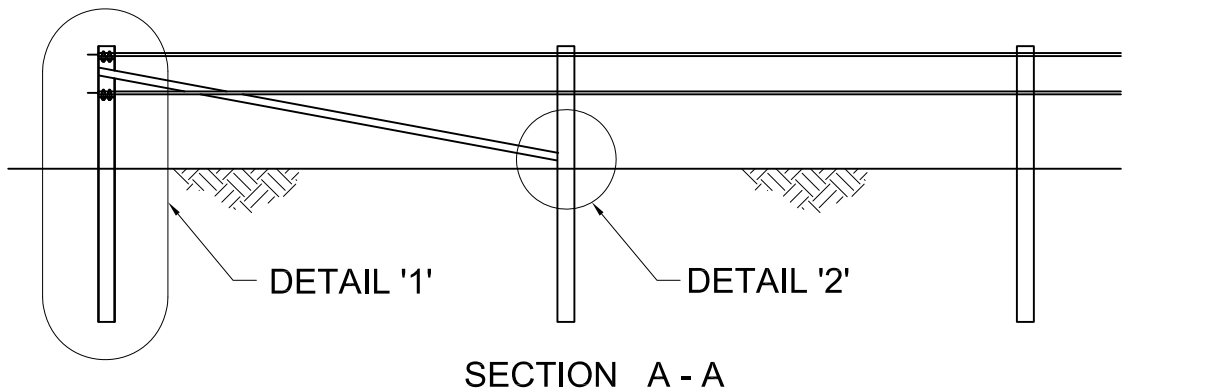
SECTION C - C

**Rope Details**

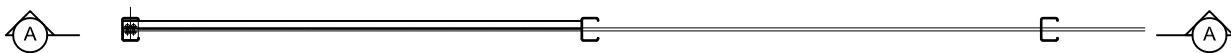
Nominal Diameter	19.0 mm
Construction	3x7 Road Barrier Rope
Lay Direction	RHOL
Tensile Grade & Finish	1220 Galvanised

**Rope Properties**

Designed Diameter	19.79 mm
Minimum Breaking Force	166 kN
Outer Wire Diameter	3 mm
Rope Mass (Unlubricated)	1.20 kg/m
Rope Mass (Lubricated)	1.21 kg/m



SECTION A - A



PLAN

WIRE ROPE BARRIER

NOTES

1. 1.8m POSTS ARE DRIVEN INTO GROUND USING EQUIPMENT FITTED TO THE END OF A BACKHOE. NO CONCRETE FOOTING IS USED.

						CHECKED:			
						C. Kinsey		DATE: MAY 07	
---	MAY 2007	REVIEWED - NO CHANGES	A/F	D/W	PROJECT TITLE:		APPROVED:		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STANDARD DRAWINGS		D. Webb		
SHEET TITLE:				STD DWG No.		SCALE:		SHEET	
WIRE ROPE BARRIER				SD-R24		N.T.S		1 of 1	
								REV. VER2007	
								DATE: MAY07	