

PINE RIVERS SHIRE COUNCIL

STANDARD DRAWINGS

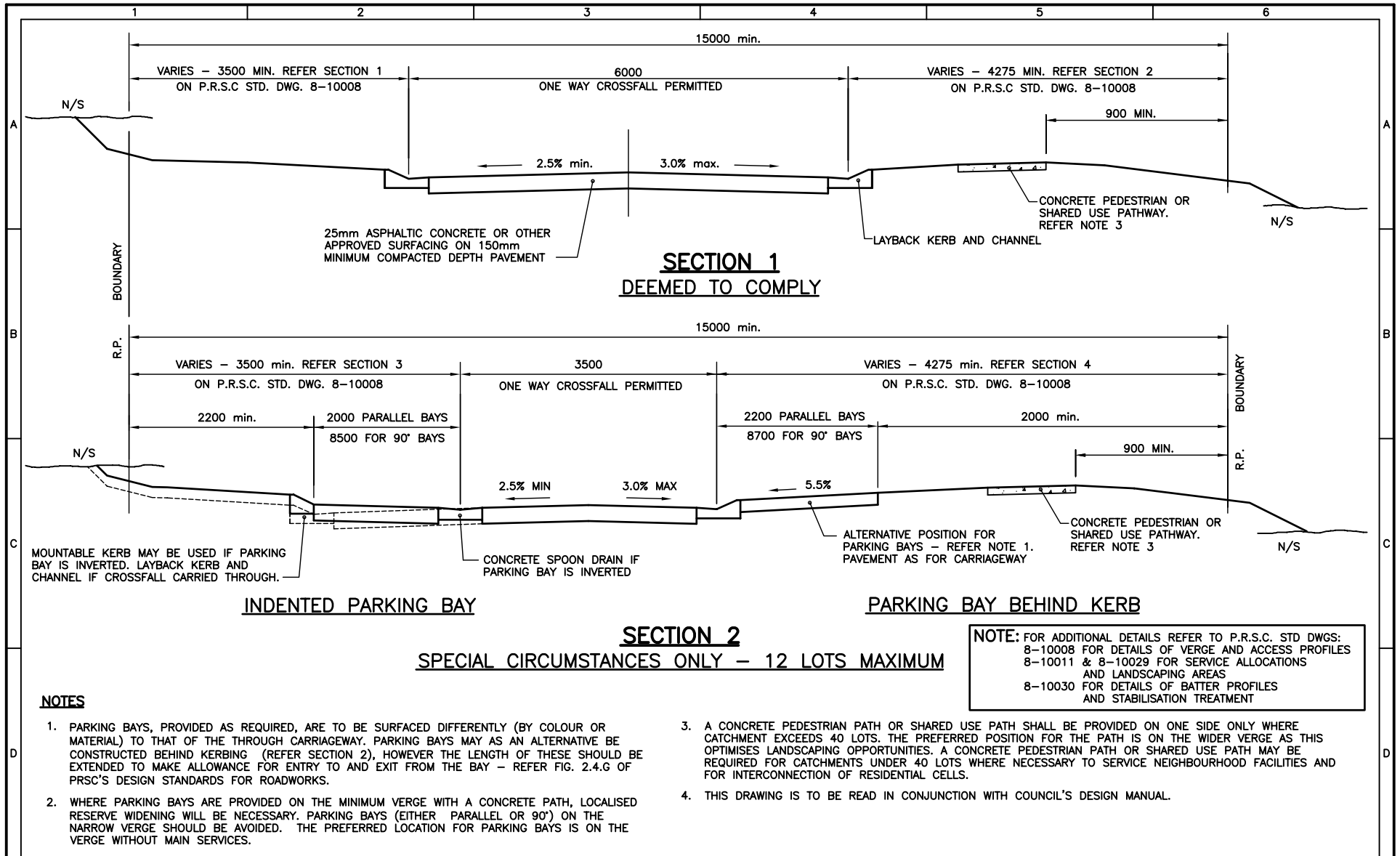


8-10000 Series

ROADWORKS

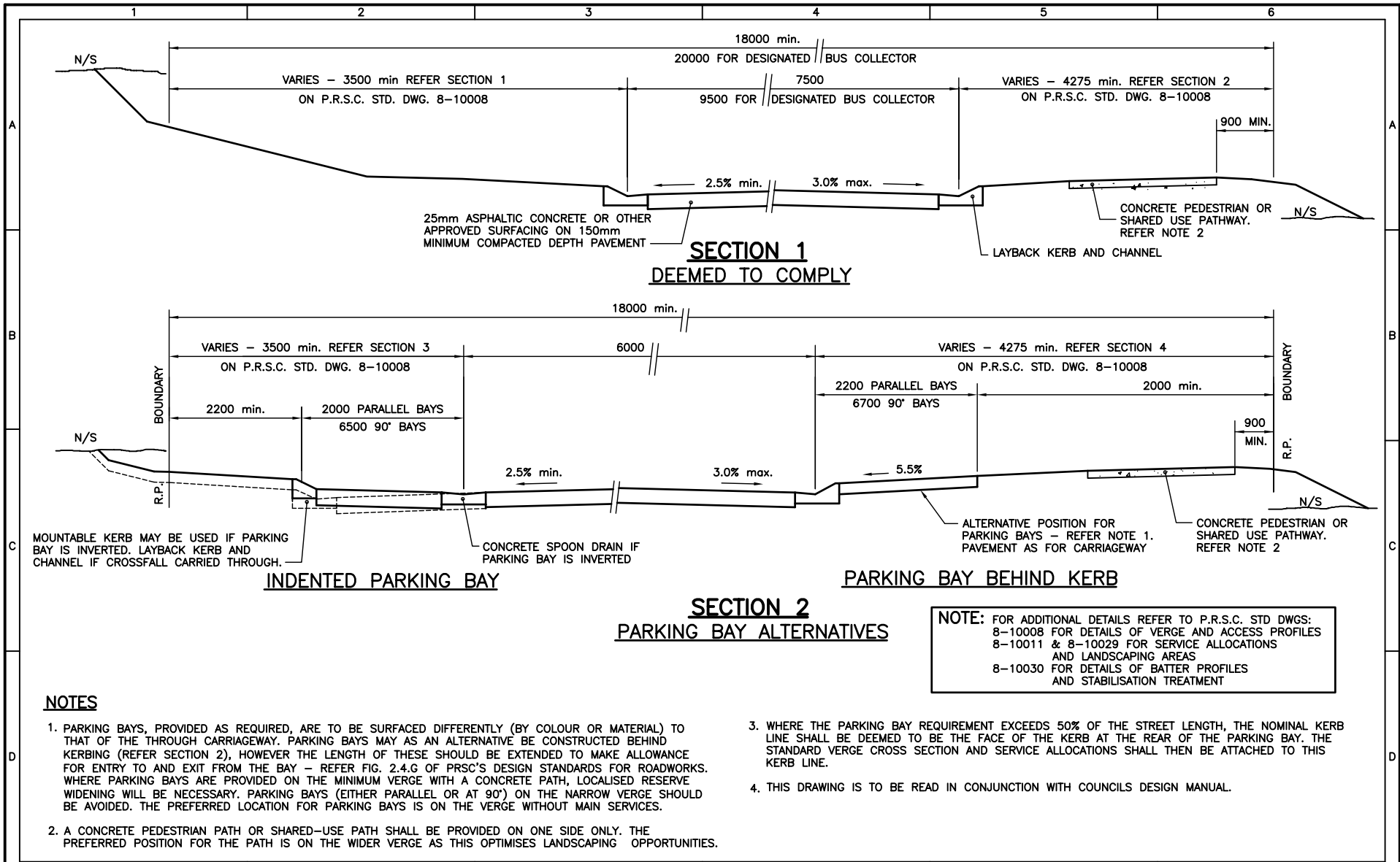
DRAWING	AMEND	DESCRIPTION	DATE
8-10001	C	Cross-Section – Residential Access Place & Access Street	12/2004
8-10002	D	Cross-Section – Residential Collector Street	12/2004
8-10003	C	Cross-Section – Residential Single Sided Street	12/2004
8-10004	D	Cross-Section – Residential Bi-Level Street	12/2004
8-10005	E	Cross-Section – Residential Trunk Collector Street	12/2004
8-10006	E	Cross-Section – Urban Sub Arterial Road	12/2004
8-10007	D	Cross-Section – Urban Arterial Road	12/2004
8-10008	C	Verge & Access Profiles – Residential Access Place, Access Street & Collector Street	12/2004
8-10009	D	Verge Profile – Urban Sub-Arterial & Arterial Roads	11/2004
8-10010	D	Verge Profile – Residential Trunk Collector Street	12/2004
8-10011	B	Service Allocations - Urban Access Place, Access Street & Collector Street - Typical Layout Plan and Sectional View	12/2004
8-10012	B	Service Allocations – Residential Trunk Collector Street	12/2004
8-10013	B	Service Allocations - Urban Arterial and Sub-Arterial Roads	11/2004
8-10014	C	Cross-Section - Industrial Access Road and Verge Details	12/2004
8-10015	C	Cross-Section - Industrial Collector Road and Verge Details	12/2004
8-10016	A	Service Allocations for Industrial Access Road and Industrial Collector Road	07/2003
8-10017	B	Cross Section - Rural Residential Access Place	12/2004
8-10018	B	Cross Section - Rural Residential Access Street	12/2004
8-10019	B	Cross Section - Rural Residential Collector Street	12/2004
8-10020	B	Verge and Access Profiles - Rural Residential Access Place, Access Street & Collector Street	12/2004

DRAWING	AMEND	DESCRIPTION	DATE
8-10021	B	Cross Section - Rural Access Road	12/2004
8-10022	B	Cross Section - Rural Collector Road	12/2004
8-10023	B	Cross Section - Rural Sub-Arterial Road	12/2004
8-10024	B	Cross Section - Rural Arterial Road	12/2004
8-10025	B	Verge Profile - Rural Access and Collector Roads	12/2004
8-10026	B	Verge Profile - Rural Sub-Arterial and Arterial Roads	12/2004
8-10027	A	Service Allocations for Rural Residential Access Place/Street, Collector Street - Typical Layout Plan	07/2003
8-10028	A	Service Allocations for Rural Access, Collector, Sub-Arterial or Arterial Roads	07/2003
8-10029	B	Service Allocations, Typical Service Conduit Sections, General Notes and Cover Requirements	12/2004
8-10030	-	Standard Batter Profiles and Stabilisation Details. All Road Types Except Urban Access Place/Street and Collector Street.	07/2003
8-10036	E	Standard Concrete Pathways	11/2004
8-10037	-	Road Edge Guide Posts	09/1996
8-10038	-	Concrete Wheel Stops	07/2003
8-10039	B	Side Drains and Mitre Drains	11/2004
8-10040	B	Side Drain Flushing Points	06/1999
8-10041	-	Traffic Signs – Location and Post Details	11/2004
8-10042	-	Standard Access Pipe Crossing	11/2004
8-10043	C	Residential Access and Invert Crossings	11/2004
8-10044	A	Standard Kerb and Channel, Kerbs, and Spoon Drains	11/2004
8-10045	B	Standard Kerb Ramp	11/2004
8-10047	B	Street Signs	10/2004
8-10048	-	Street Signs – Sign and Blade Details	07/2003
8-10049	B	Roadside Drainage - Upgrading of Existing Roads - Swale Drains	11/2004
8-10050	B	Roadside Drainage - Upgrading of Existing Roads - Shoulder Dykes and Batter Drains	11/2004



1		2		3		4		5		6	
C Notes revised.		12/04		Scales		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File 400/26	
B Verges & notes revised.		7/01		NOT TO SCALE		T.T		STANDARD ROAD CROSS SECTIONS		Min. Page	
A SECT. 1 & NOTE 2 AMD.		12/95		Dimensions in mm.		Traced		RESIDENTIAL STREETS		Drawing No.	
Original Issue		5/93		Mayor		ACAD		ACCESS PLACE AND ACCESS STREET		8 10001	
Revisions		Apd. Date		Chief Executive Officer		Checked		Level Datum		Sheet 1 of 1 Sheets	
				Date		L. Bk.				A3	
						F. Bk.				A3	

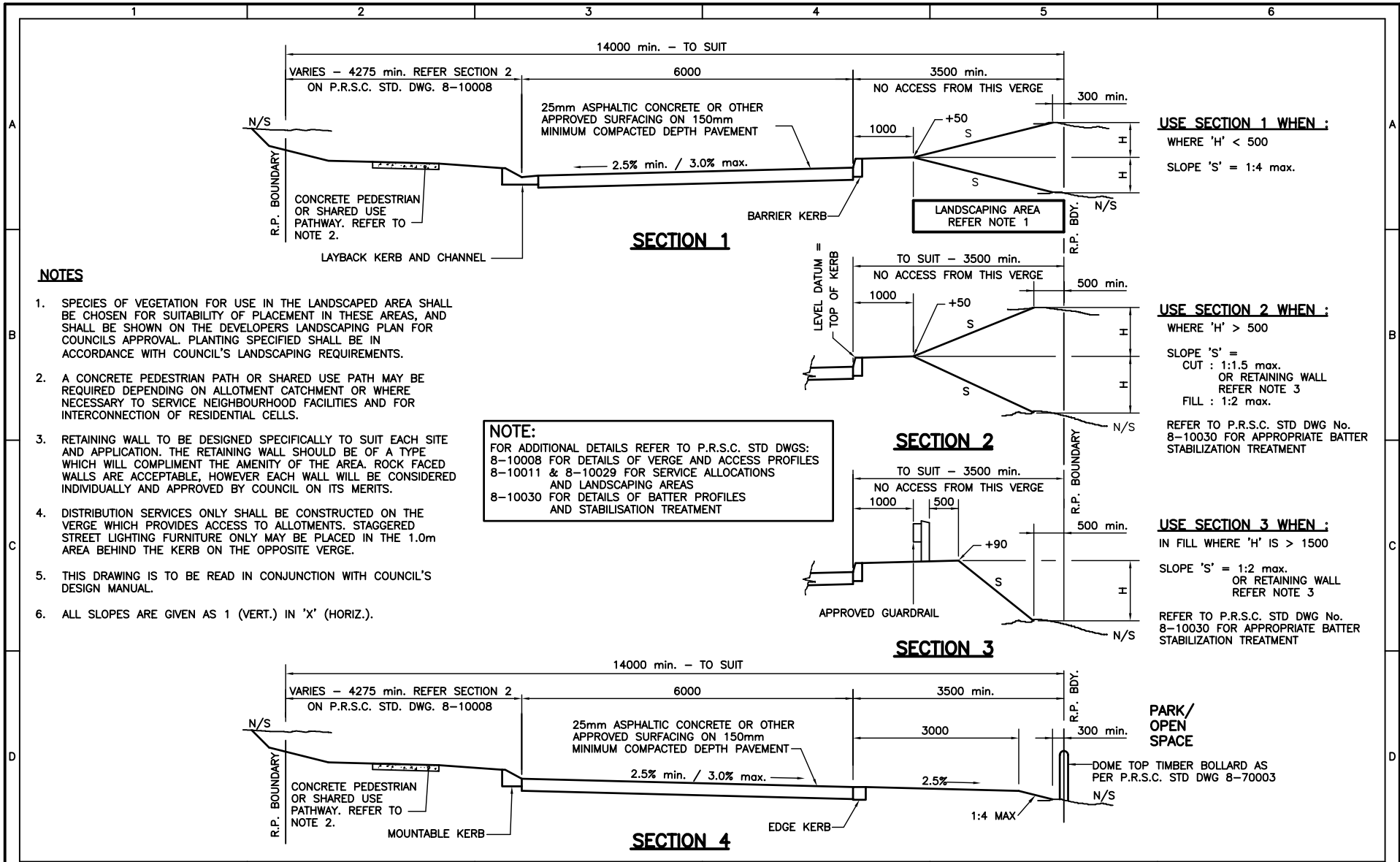




NOTES

1. PARKING BAYS, PROVIDED AS REQUIRED, ARE TO BE SURFACED DIFFERENTLY (BY COLOUR OR MATERIAL) TO THAT OF THE THROUGH CARRIAGEWAY. PARKING BAYS MAY AS AN ALTERNATIVE BE CONSTRUCTED BEHIND KERBING (REFER SECTION 2), HOWEVER THE LENGTH OF THESE SHOULD BE EXTENDED TO MAKE ALLOWANCE FOR ENTRY TO AND EXIT FROM THE BAY - REFER FIG. 2.4.G OF PRSC'S DESIGN STANDARDS FOR ROADWORKS. WHERE PARKING BAYS ARE PROVIDED ON THE MINIMUM VERGE WITH A CONCRETE PATH, LOCALISED RESERVE WIDENING WILL BE NECESSARY. PARKING BAYS (EITHER PARALLEL OR AT 90°) ON THE NARROW VERGE SHOULD BE AVOIDED. THE PREFERRED LOCATION FOR PARKING BAYS IS ON THE VERGE WITHOUT MAIN SERVICES.
2. A CONCRETE PEDESTRIAN PATH OR SHARED-USE PATH SHALL BE PROVIDED ON ONE SIDE ONLY. THE PREFERRED POSITION FOR THE PATH IS ON THE WIDER VERGE AS THIS OPTIMISES LANDSCAPING OPPORTUNITIES.
3. WHERE THE PARKING BAY REQUIREMENT EXCEEDS 50% OF THE STREET LENGTH, THE NOMINAL KERB LINE SHALL BE DEEMED TO BE THE FACE OF THE KERB AT THE REAR OF THE PARKING BAY. THE STANDARD VERGE CROSS SECTION AND SERVICE ALLOCATIONS SHALL THEN BE ATTACHED TO THIS KERB LINE.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCILS DESIGN MANUAL.

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D Notes revised		12/04		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File		Min. Page	
C Verges & notes revised		07/01		Mayor		STANDARD ROAD CROSS SECTIONS		400/26		Drawing No.	
B Spoon Drain note altered		10/96		Chief Executive Officer		RESIDENTIAL STREETS		8		10002	
A SECT. 2 & NOTE 2 AMD.		12/95		Date		COLLECTOR STREET		Sheet 1 of 1 Sheets		A3	
Original Issue		5/93		Level Datum							
Revisions		Apd. Date									



USE SECTION 1 WHEN :
 WHERE 'H' < 500
 SLOPE 'S' = 1:4 max.

USE SECTION 2 WHEN :
 WHERE 'H' > 500
 SLOPE 'S' =
 CUT : 1:1.5 max.
 OR RETAINING WALL
 REFER NOTE 3
 FILL : 1:2 max.

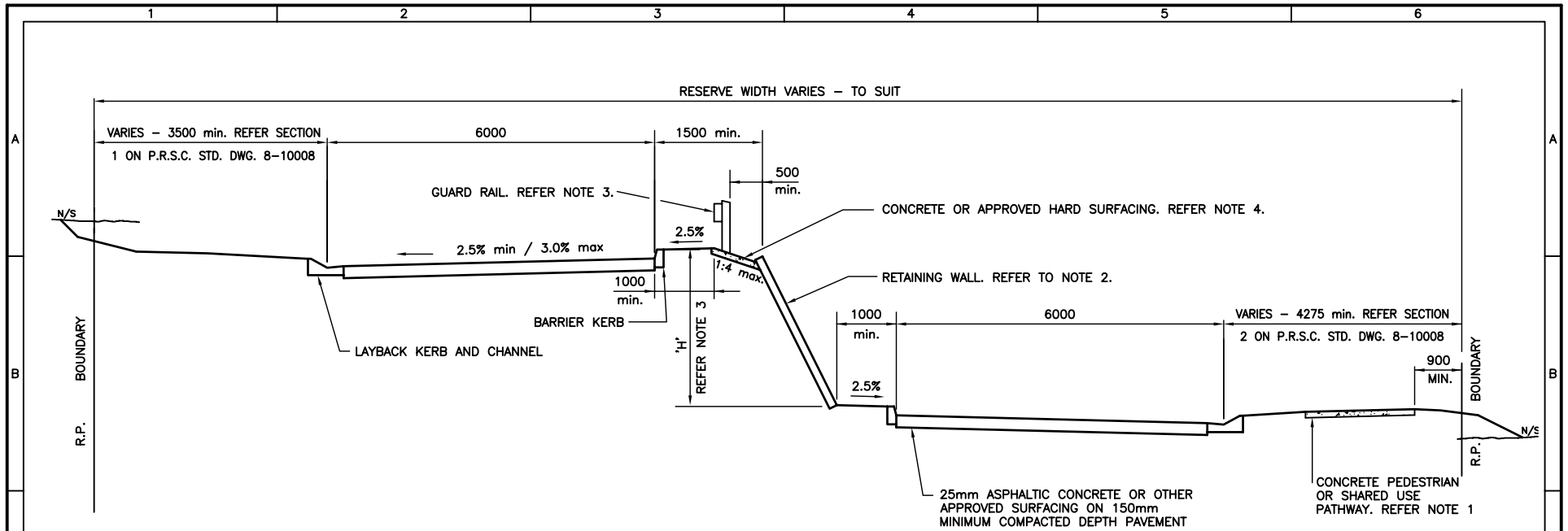
USE SECTION 3 WHEN :
 IN FILL WHERE 'H' IS > 1500
 SLOPE 'S' = 1:2 max.
 OR RETAINING WALL
 REFER NOTE 3
 REFER TO P.R.S.C. STD DWG No. 8-10030 FOR APPROPRIATE BATTER STABILIZATION TREATMENT

NOTES

- SPECIES OF VEGETATION FOR USE IN THE LANDSCAPED AREA SHALL BE CHOSEN FOR SUITABILITY OF PLACEMENT IN THESE AREAS, AND SHALL BE SHOWN ON THE DEVELOPERS LANDSCAPING PLAN FOR COUNCILS APPROVAL. PLANTING SPECIFIED SHALL BE IN ACCORDANCE WITH COUNCIL'S LANDSCAPING REQUIREMENTS.
- A CONCRETE PEDESTRIAN PATH OR SHARED USE PATH MAY BE REQUIRED DEPENDING ON ALLOTMENT CATCHMENT OR WHERE NECESSARY TO SERVICE NEIGHBOURHOOD FACILITIES AND FOR INTERCONNECTION OF RESIDENTIAL CELLS.
- RETAINING WALL TO BE DESIGNED SPECIFICALLY TO SUIT EACH SITE AND APPLICATION. THE RETAINING WALL SHOULD BE OF A TYPE WHICH WILL COMPLIMENT THE AMENITY OF THE AREA. ROCK FACED WALLS ARE ACCEPTABLE, HOWEVER EACH WALL WILL BE CONSIDERED INDIVIDUALLY AND APPROVED BY COUNCIL ON ITS MERITS.
- DISTRIBUTION SERVICES ONLY SHALL BE CONSTRUCTED ON THE VERGE WHICH PROVIDES ACCESS TO ALLOTMENTS. STAGGERED STREET LIGHTING FURNITURE ONLY MAY BE PLACED IN THE 1.0m AREA BEHIND THE KERB ON THE OPPOSITE VERGE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
- ALL SLOPES ARE GIVEN AS 1 (VERT.) IN 'X' (HORIZ.).

NOTE:
 FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10008 FOR DETAILS OF VERGE AND ACCESS PROFILES
 8-10011 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

C NOTES REVISED		12/04 07/03	Scales	Mayor	Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File	Min. Page	
B VERGES & NOTES REVISED AND SECT. 4 ADDED					NOT TO SCALE Dimensions in mm.	Chief Executive Officer	Drawn	T.T.	Traced	ACAD	
A SECT. 1 & NOTES 1 & 2 AMD Original Issue		12/95 5/93	Date	Checked				Approved		8	10003
Revisions		Apd.	Date	Date	L. Bk.	F. Bk.	Level Datum	STANDARD ROAD CROSS SECTIONS RESIDENTIAL STREETS SINGLE SIDED STREET ACCESS STREET AND ACCESS PLACE		Sheet 1 of 1 Sheets	



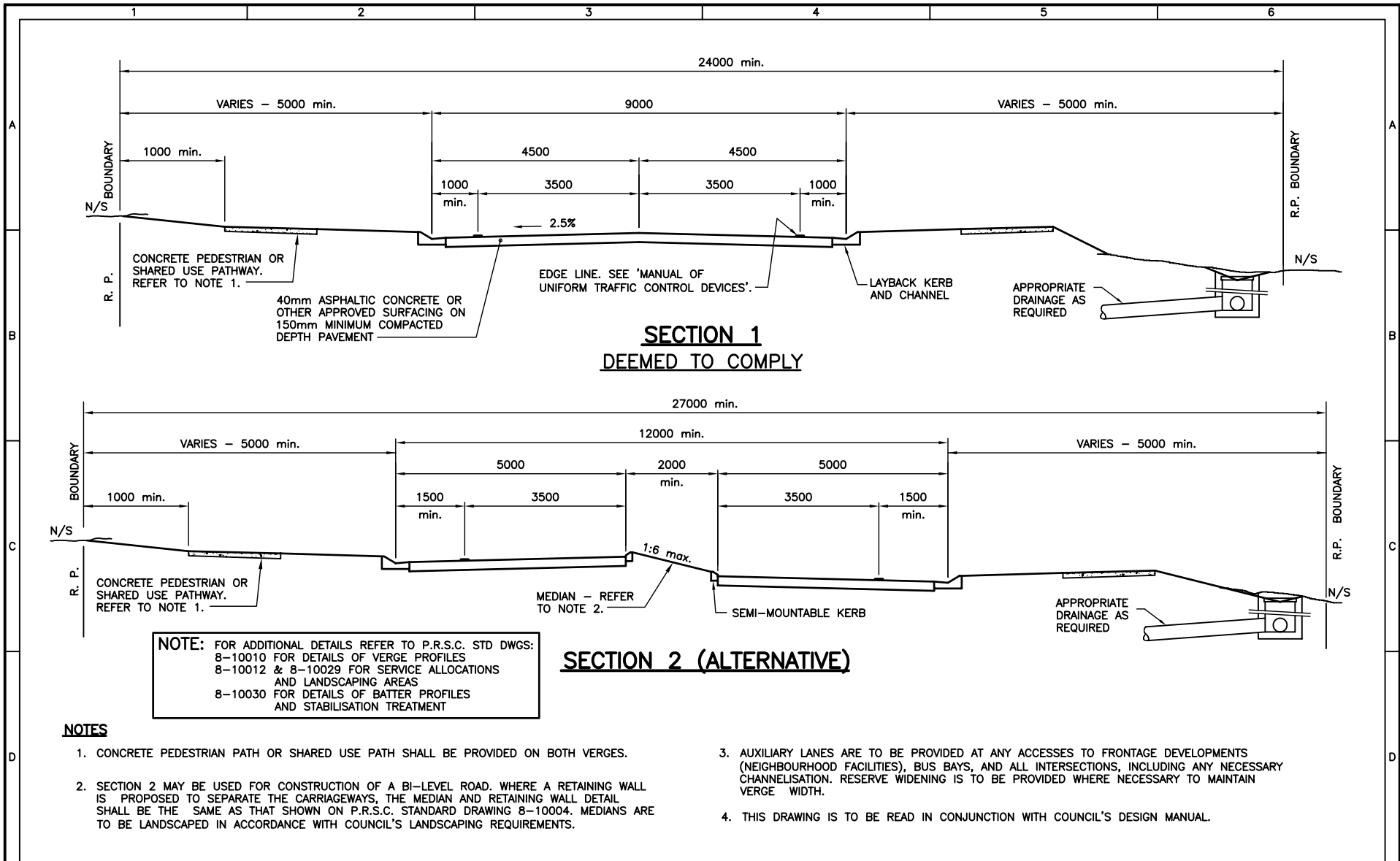
SECTION

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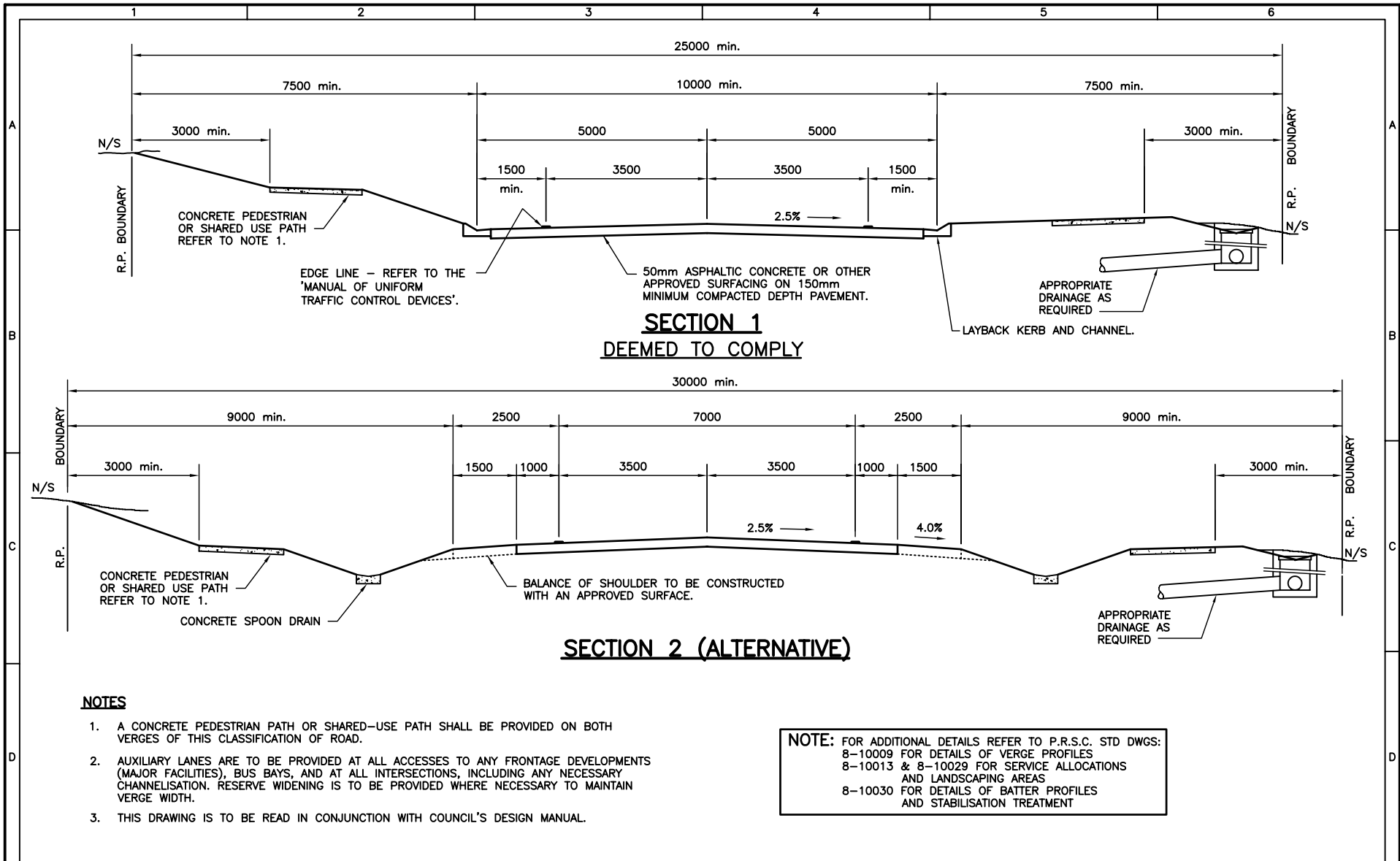
1. A CONCRETE PEDESTRIAN OATH OR SHARED USE PATH SHALL BE PROVIDED ON ONE SIDE ONLY WHERE CATCHMENT EXCEEDS 40 LOTS. THE PREFERRED POSITION FOR THE PATH IS ON THE WIDER VERGE AS THIS OPTIMISES LANDSCAPING OPPORTUNITIES. A CONCRETE PEDESTRIAN PATH OR SHARED USE PATH MAY BE REQUIRED FOR CATCHMENTS UNDER 40 LOTS WHERE NECESSARY TO SERVICE NEIGHBOURHOOD FACILITIES AND FOR INTERCONNECTION OF RESIDENTIAL CELLS.
2. RETAINING WALL TO BE DESIGNED SPECIFICALLY TO SUIT EACH SITE AND APPLICATION. THE RETAINING WALL FACE SHOULD BE OF A TYPE WHICH WILL COMPLIMENT THE AMENITY OF THE AREA. ROCK FACED WALLS ARE ACCEPTABLE, HOWEVER EACH WALL WILL BE CONSIDERED INDIVIDUALLY AND APPROVED BY COUNCIL ON ITS MERITS.
3. AN APPROVED GUARDRAIL SHALL BE INSTALLED WHEN HEIGHT 'H' (TOP OF KERB TO TOP OF KERB) EXCEEDS 1.5m.
4. LANDSCAPING WILL BE PERMITTED IN THE AREA BETWEEN THE GUARDRAIL AND TOP OF WALL WHEN THIS DIMENSION EXCEEDS 1.50m, OR, WHERE GUARDRAIL IS NOT REQUIRED, WHEN THE WIDTH OF CENTRE MEDIAN EXCEEDS 1.50m. LANDSCAPING WILL NOT BE PERMITTED IN THE 1.0m STRIP BEHIND THE BARRIER KERBS TO ALLOW FOR MANOEUVERING OF VEHICLES. MEDIAN LANDSCAPING SHALL BE IN ACCORDANCE WITH COUNCIL'S LANDSCAPING REQUIREMENTS.
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.

NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10008 FOR DETAILS OF VERGE AND ACCESS PROFILES
 8-10011 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

1		2		3		4		5		6	
D Notes revised		12/04		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File 400/26		Min. Page	
C Verges & notes revised		07/03		Mayor		STANDARD ROAD CROSS SECTIONS		Drawing No.		A3	
B Note 1 amended		10/96		Chief Executive Officer		RESIDENTIAL STREETS		8 10004		Sheet 1 of 1 Sheets	
A SECT. & NOTES 1 & 4 AMD		12/95		Date		BI-LEVEL STREET FOR ACCESS PLACE, ACCESS STREET AND COLLECTOR STREET					
Original Issue		5/93									
Revisions		Apd. Date		Level Datum							
		NOT TO SCALE Dimensions in mm.									



E Notes revised		12/04	Scales	Mayor	Director Assets & Infrastructure	PINE RIVERS SHIRE COUNCIL		File	Min. Page																			
D Verges & notes revised		07/03				NOT TO SCALE Dimensions in mm.	Chief Executive Officer	<table border="1"> <tr><td>Drawn</td><td>T.T.</td><td>Traced</td><td>ACAD</td></tr> <tr><td>Checked</td><td></td><td>Recomm.</td><td></td></tr> <tr><td>Approved</td><td></td><td>F. Bk.</td><td></td></tr> <tr><td>Level Datum</td><td></td><td></td><td></td></tr> </table>	Drawn	T.T.	Traced	ACAD	Checked		Recomm.		Approved		F. Bk.		Level Datum				STANDARD ROAD CROSS SECTIONS		400/26	
Drawn	T.T.	Traced							ACAD																			
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Approved		F. Bk.																										
Level Datum																												
C Note moved & F'path		9/96	Date		RESIDENTIAL STREETS		Drawing No.																					
B Footpath width amended		3/96			TRUNK COLLECTOR STREET		8	10005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
A Notes 1 & 2 amended		12/95																										
Original Issue		5/93							A3																			
Revisions		Apd. Date						Sheet 1 of 1 Sheets																				



**SECTION 1
DEEMED TO COMPLY**

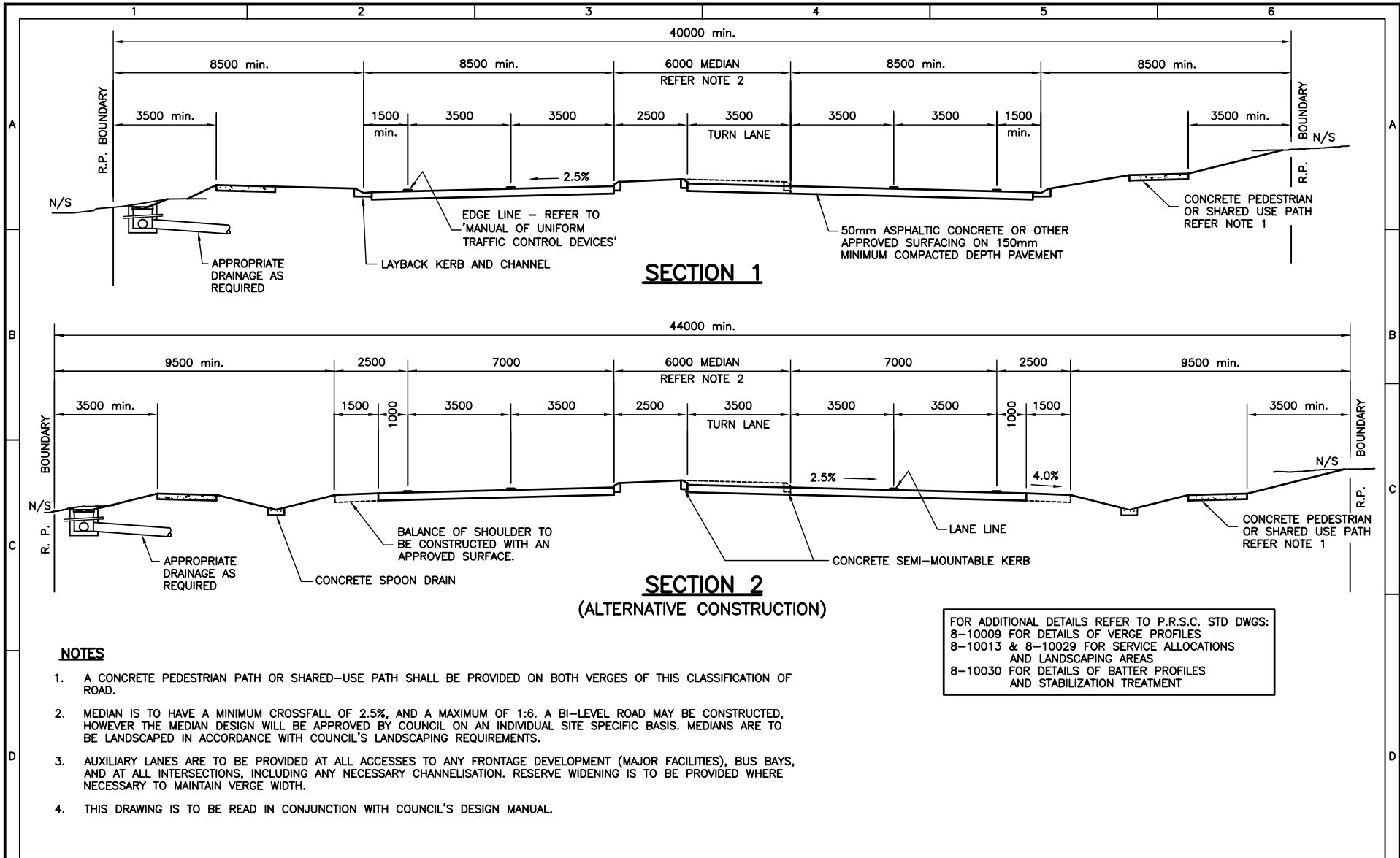
SECTION 2 (ALTERNATIVE)

NOTES

1. A CONCRETE PEDESTRIAN PATH OR SHARED-USE PATH SHALL BE PROVIDED ON BOTH VERGES OF THIS CLASSIFICATION OF ROAD.
2. AUXILIARY LANES ARE TO BE PROVIDED AT ALL ACCESSES TO ANY FRONTAGE DEVELOPMENTS (MAJOR FACILITIES), BUS BAYS, AND AT ALL INTERSECTIONS, INCLUDING ANY NECESSARY CHANNELLISATION. RESERVE WIDENING IS TO BE PROVIDED WHERE NECESSARY TO MAINTAIN VERGE WIDTH.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.

NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10009 FOR DETAILS OF VERGE PROFILES
 8-10013 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

E Notes revised D Verges & notes revised C Note moved B Footpath width amended A Note 1 amended Original Issue		12/04 07/01 9/96 3/96 12/95 5/93	Revisions	Apd.	Date	NOT TO SCALE Dimensions in mm.	Mayor Chief Executive Officer Date	Director Assets & Infrastructure Drawn T.T. Traced ACAD Checked Recomm. Approved F. Bk.	Level Datum	PINE RIVERS SHIRE COUNCIL	STANDARD ROAD CROSS SECTIONS URBAN ROADS SUB-ARTERIAL ROADS	File 400/26 Min. Page Drawing No. 8 10006	Sheet 1 of 1 Sheets	A3
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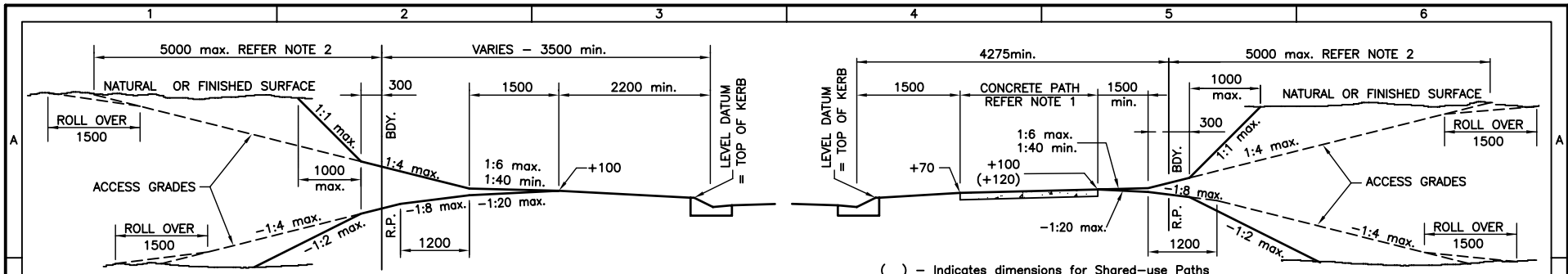


NOTES

1. A CONCRETE PEDESTRIAN PATH OR SHARED-USE PATH SHALL BE PROVIDED ON BOTH VERGES OF THIS CLASSIFICATION OF ROAD.
2. MEDIAN IS TO HAVE A MINIMUM CROSSFALL OF 2.5%, AND A MAXIMUM OF 1:6. A BI-LEVEL ROAD MAY BE CONSTRUCTED, HOWEVER THE MEDIAN DESIGN WILL BE APPROVED BY COUNCIL ON AN INDIVIDUAL SITE SPECIFIC BASIS. MEDIANS ARE TO BE LANDSCAPED IN ACCORDANCE WITH COUNCIL'S LANDSCAPING REQUIREMENTS.
3. AUXILIARY LANES ARE TO BE PROVIDED AT ALL ACCESSES TO ANY FRONTAGE DEVELOPMENT (MAJOR FACILITIES), BUS BAYS, AND AT ALL INTERSECTIONS, INCLUDING ANY NECESSARY CHANNELISATION. RESERVE WIDENING IS TO BE PROVIDED WHERE NECESSARY TO MAINTAIN VERGE WIDTH.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.

FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10009 FOR DETAILS OF VERGE PROFILES
 8-10013 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILIZATION TREATMENT

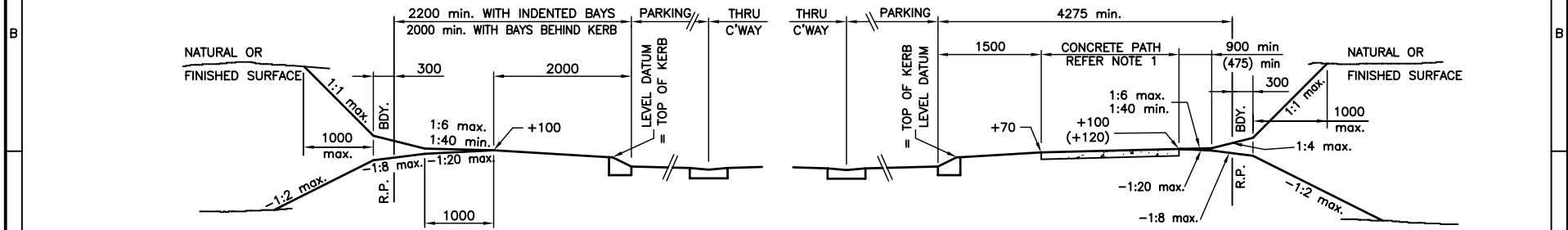
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C Verges & notes revised 07/03		NOT TO SCALE		Chief Executive Officer		Drawn T.T. Traced ACAD		STANDARD ROAD CROSS SECTIONS		Drawing No.	
B Footpath width amended 3/96		Dimensions in mm.		Date		Checked Approved		URBAN ROADS		8 10007	
A Notes 1 & 2 amended 12/95						L. Bk. F. Bk.		ARTERIAL ROADS		Sheet 1 of 1 Sheets	
Original Issue 5/93						Level Datum				A3	
Revisions		Apd. Date									



SECTION 1 - VERGE WITHOUT PATHWAYS

SECTION 2 - VERGE WITH PATHWAYS

() - Indicates dimensions for Shared-use Paths



SECTION 3 - VERGE AT PARKING BAYS (WITHOUT PATHWAYS)

SECTION 4 - VERGE WITH PARKING BAYS AND PATHWAYS

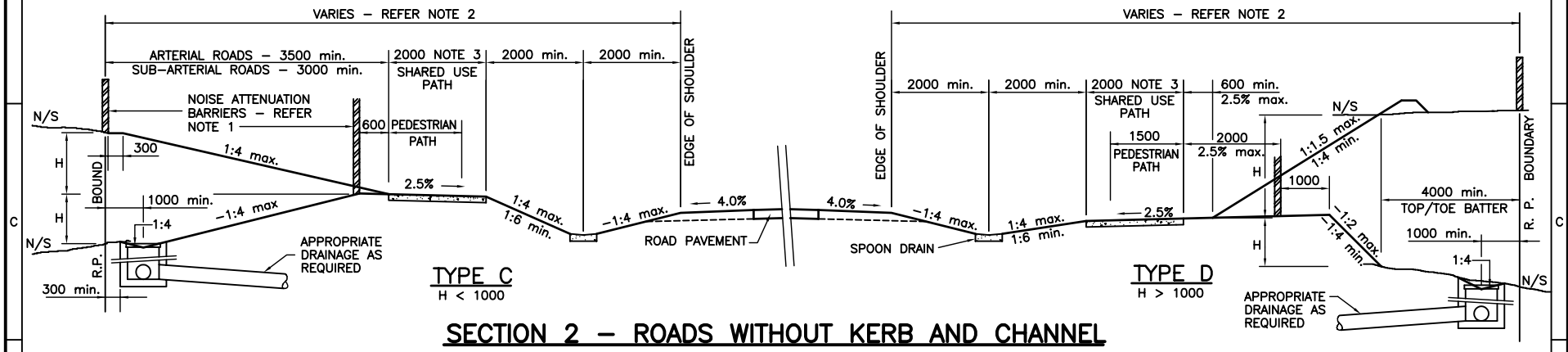
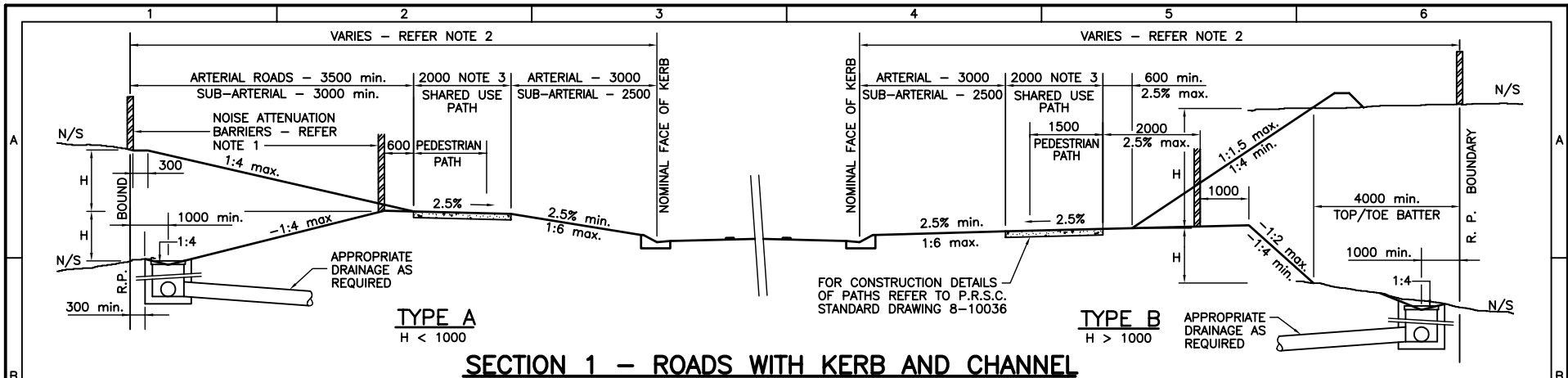
() - Indicates dimensions for Shared-use Paths

NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10013 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

NOTES

1. THE CONCRETE PEDESTRIAN PATH OR SHARED USE PATH SHALL BE CONSTRUCTED PARALLEL TO THE KERB AND CHANNEL, AND TRANSITIONED SMOOTHLY AROUND ANY PARKING BAYS. FOR DETAILS OF PATHWAY REQUIREMENTS REFER TO P.R.S.C. STD. DWG. 8-10036.
2. THE FRONT PROPERTY ALIGNMENT SHALL BE POSITIONED SO AS THE ACCESS GRADING, WHEN APPLIED ACROSS THE FULL FRONTAGE OF THE ALLOTMENT, INTERSECTS WITH THE NATURAL OR FINISHED SURFACE NOT MORE THAN 5.0m FROM THE FRONT PROPERTY ALIGNMENT. THIS MAY LEAD TO AN INCREASE IN RESERVE WIDTH IN SIDE-LONG TERRAIN. VARIATIONS MAY BE APPROVED BY COUNCIL IN SPECIAL CIRCUMSTANCES.
3. THE MINIMUM RESERVE WIDTHS INDICATED ON THE STANDARD ROAD CROSS SECTIONS MAY NEED TO BE INCREASED IN CERTAIN CIRCUMSTANCES IN ORDER TO COMPLY WITH THIS DRAWING.
4. ACCESSES ARE NOT PERMITTED OFF PARKING BAYS.
5. WHERE PARKING BAY REQUIREMENT EXCEEDS 50% OF THE STREET LENGTH, THE NOMINAL KERB LINE SHALL BE DEEMED TO BE THE FACE OF KERB AT THE REAR OF THE PARKING BAY. THE STANDARD VERGE CROSS SECTION AND SERVICE ALLOCATIONS SHALL THEN BE ATTACHED TO THIS KERB LINE.
6. SPECIAL STABILISATION MEASURES SHALL BE APPLIED TO ALL BATTERS STEEPER THAN 1:4.
7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
8. ALL SLOPES GIVEN AS 1 (VERT.) IN 'X' (HORIZ.).

1		2		3		4		5		6	
C Notes revised		12/04		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File		Min. Page	
B Verges & notes revised		07/03		T.T. Traced ACAD		STANDARD VERGE AND ACCESS PROFILES		400/26		Drawing No.	
A NOTE 3 AMENDED		12/95		Checked		RESIDENTIAL STREETS		8		10008	
Original Issue		5/93		L. Bk. F. Bk.		ACCESS PLACE, ACCESS STREET, AND COLLECTOR STREETS		Sheet 1 of 1 Sheets		A3	
Revisions		Apd. Date		Level Datum							
		Scales		Mayor							
		NOT TO SCALE		Chief Executive Officer							
		Dimensions in mm.		Date							



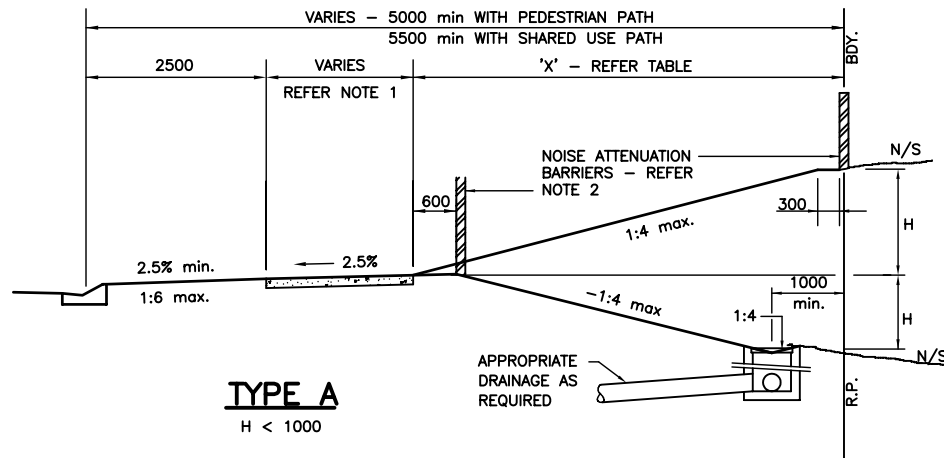
NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
8-10013 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

NOTES

- NOISE ATTENUATION BARRIERS, WHERE REQUIRED, ARE TO BE POSITIONED FOR BEST EFFECT GENERALLY AS INDICATED ON THE DRAWING. IN CUT SITUATIONS THIS SHALL BE ON THE PROPERTY BOUNDARY, AND IN FILL SITUATIONS AS DIMENSIONED BEHIND THE PATHWAY ALLOCATION. ALTERNATIVE LOCATIONS MAY BE APPROVED BY COUNCIL ON THEIR MERITS IN SPECIAL CIRCUMSTANCES.
- THE WIDTH OF VERGE IS DEPENDENT ON THE ROAD CLASSIFICATION, DRAINAGE REQUIREMENTS, BATTER SLOPES AND NOISE ATTENUATION DEVICES. THE VERGE WIDTH AND RESERVE WIDTH SHALL NOT BE LESS THAN THOSE SHOWN ON P.R.S.C. STD. DWGS. 8-10006 AND 8-10007.
- A 2.0m RESERVE IS TO BE MAINTAINED FOR PATHWAYS IRRESPECTIVE OF THE WIDTH OF PATH REQUIRED. SHOULD A PATH OF GREATER THAN 2.0m BE REQUIRED, THIS ALLOCATION AND THE ROAD RESERVE SHALL BE INCREASED ACCORDINGLY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S "DESIGN MANUAL FOR ROADS AND DRAINAGE".
- SPECIAL STABILISATION MEASURES SHALL BE APPLIED TO ALL BATTERS STEEPER THAN 1:4
- ALL SLOPES ARE GIVEN AS 1 (VERT) IN 'X' (HORIZ.)

1		2		3		4		5		6	
Scales		Scales		Scales		Scales		Scales		Scales	
Noise barriers moved Verges & notes revised Footpath Width amended Note & Verges amended Original Issue		11/04 07/03 9/96 12/95 5/93		NOT TO SCALE Dimensions in mm.		Mayor Chief Executive Officer		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL	
Revisions		Apd. Date		Date		Level Datum		Drawn T.T. Traced ACAD		File 400/26	
								Checked		Drawing No.	
								Approved F. Bk.		8 10009	
								Level Datum		Sheet 1 of 1 Sheets	
										A3	

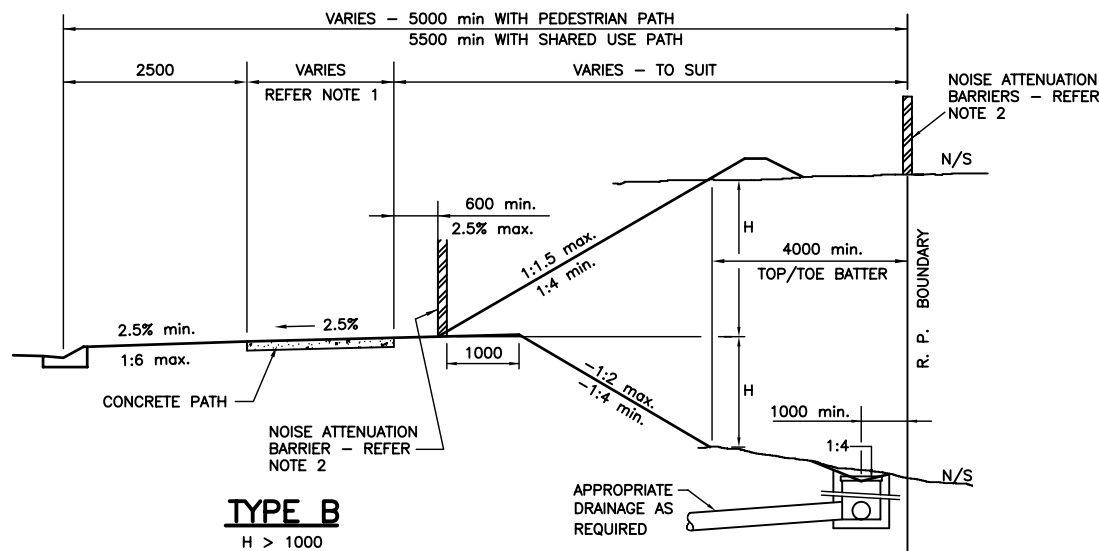
VERGE CONSTRUCTION	"X"
WITH PEDESTRIAN PATH ONLY (CUT)	1000 min.
WITH SHARED USE PATH ONLY (CUT)	1000 min.
WITH PEDESTRIAN PATH AND DRAINAGE PITS (FILL)	2400 min.
WITH SHARED USE PATH AND DRAINAGE PITS (FILL)	2600 min.



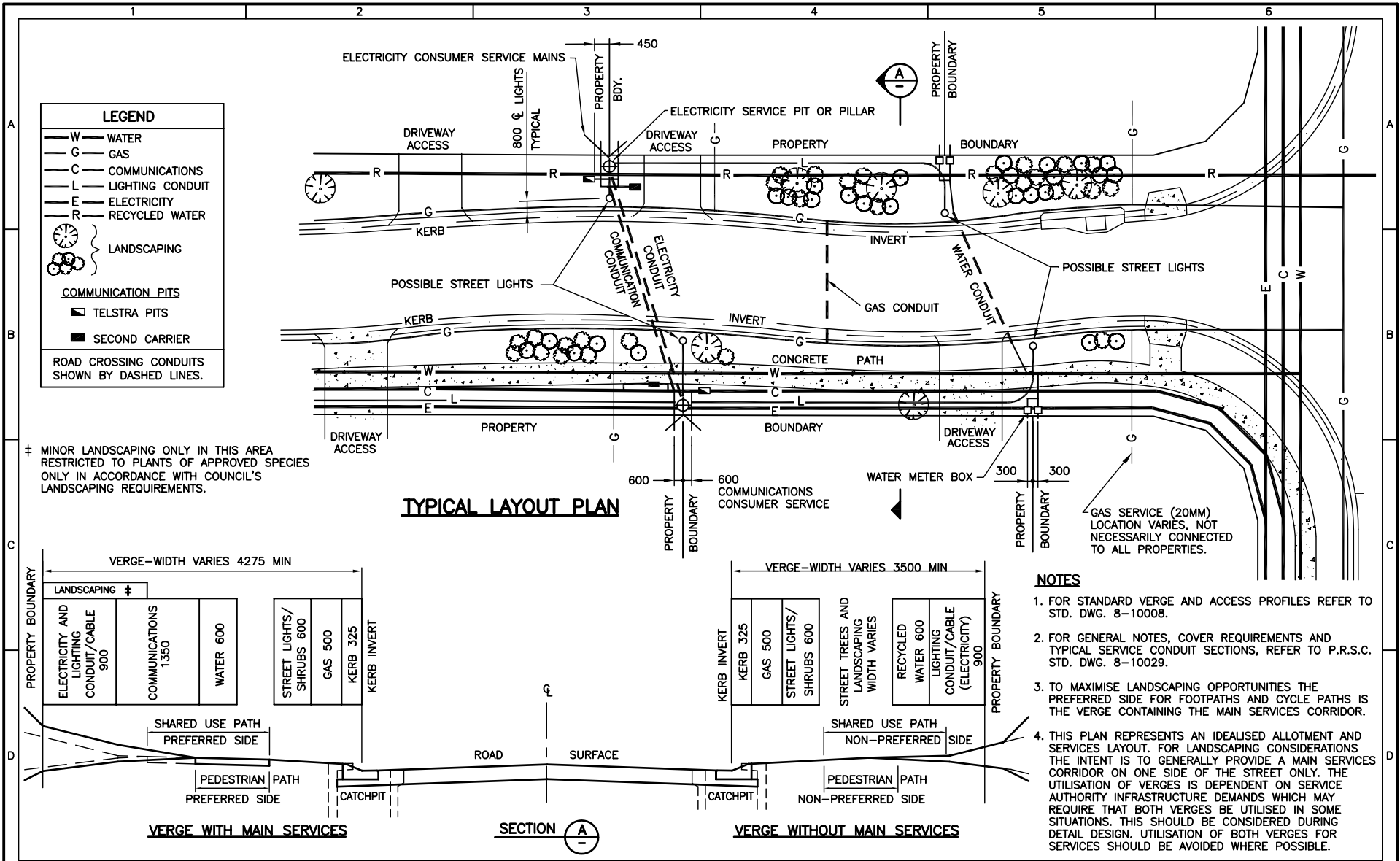
NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
8-10013 & 8-10029 FOR SERVICE ALLOCATIONS
AND LANDSCAPING AREAS
8-10030 FOR DETAILS OF BATTER PROFILES
AND STABILISATION TREATMENT

NOTES

1. THE CONCRETE PEDESTRIAN PATH OR SHARED USE PATH SHALL BE CONSTRUCTED PARALLEL TO THE KERB AND CHANNEL. FOR DETAILS OF PATHWAY REQUIREMENTS REFER TO P.R.S.C. STANDARD DRAWING 8-10036.
2. NOISE ATTENUATION BARRIERS WHERE REQUIRED ARE TO BE POSITIONED FOR BEST EFFECT AS INDICATED ON THE DRAWING. IN CUT SITUATIONS THIS SHALL BE ON THE PROPERTY BOUNDARY, AND IN FILL SITUATIONS AS DIMENSIONED BEHIND THE PATHWAY ALLOCATION. ALTERNATIVE LOCATIONS MAY BE APPROVED BY COUNCIL ON THEIR MERITS IN SPECIAL CIRCUMSTANCES.
3. THE WIDTH OF VERGE IS DEPENDENT ON THE ROAD CLASSIFICATION, DRAINAGE REQUIREMENTS, BATTER SLOPES AND NOISE ATTENUATION DEVICES. THE VERGE WIDTH AND RESERVE WIDTH SHALL NOT BE LESS THAN THOSE SHOWN.
4. SPECIAL STABILISATION MEASURES SHALL BE APPLIED TO ALL BATTERS STEEPER THAN 1:4
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
6. ALL SLOPES ARE GIVEN AS 1 (VERT.) IN 'X' (HORIZ.).



D Noise barriers moved & notes revised 12/04 C Verges & notes revised 07/03 B Note 1 amended 9/96 A Note 2 & Verges amend. 12/95 Original Issue 5/93		Scales NOT TO SCALE Dimensions in mm.	Mayor Chief Executive Officer Date	Director Assets & Infrastructure Drawn T.T. Traced ACAD Checked Recomm. Approv. F. Bk.	PINE RIVERS SHIRE COUNCIL STANDARD VERGE PROFILES RESIDENTIAL STREETS TRUNK COLLECTOR STREETS	File 400/26 Min. Page Drawing No. 8 10010	 A3
Revisions	Apd.	Date	Date	Level Datum	Sheet 1 of 1 Sheets		



Scales		NOT TO SCALE Dimensions in mm.		Mayor Chief Executive Officer Date		PINE RIVERS SHIRE COUNCIL SERVICE ALLOCATIONS URBAN STREETS ACCESS PLACE, ACCESS STREET AND COLLECTOR STREET		File 400/26	Min. Page 8	Drawing No. 10011	
B Notes revised A Verges revised Original Issue	12/04 07/03 8/99	Revisions Apd. Date	Level Datum	Drawn JWP Traced - Checked Recomm. Approved F. Bk. -	Director Assets & Infrastructure	Sheet 1 of 1 Sheets	A3				

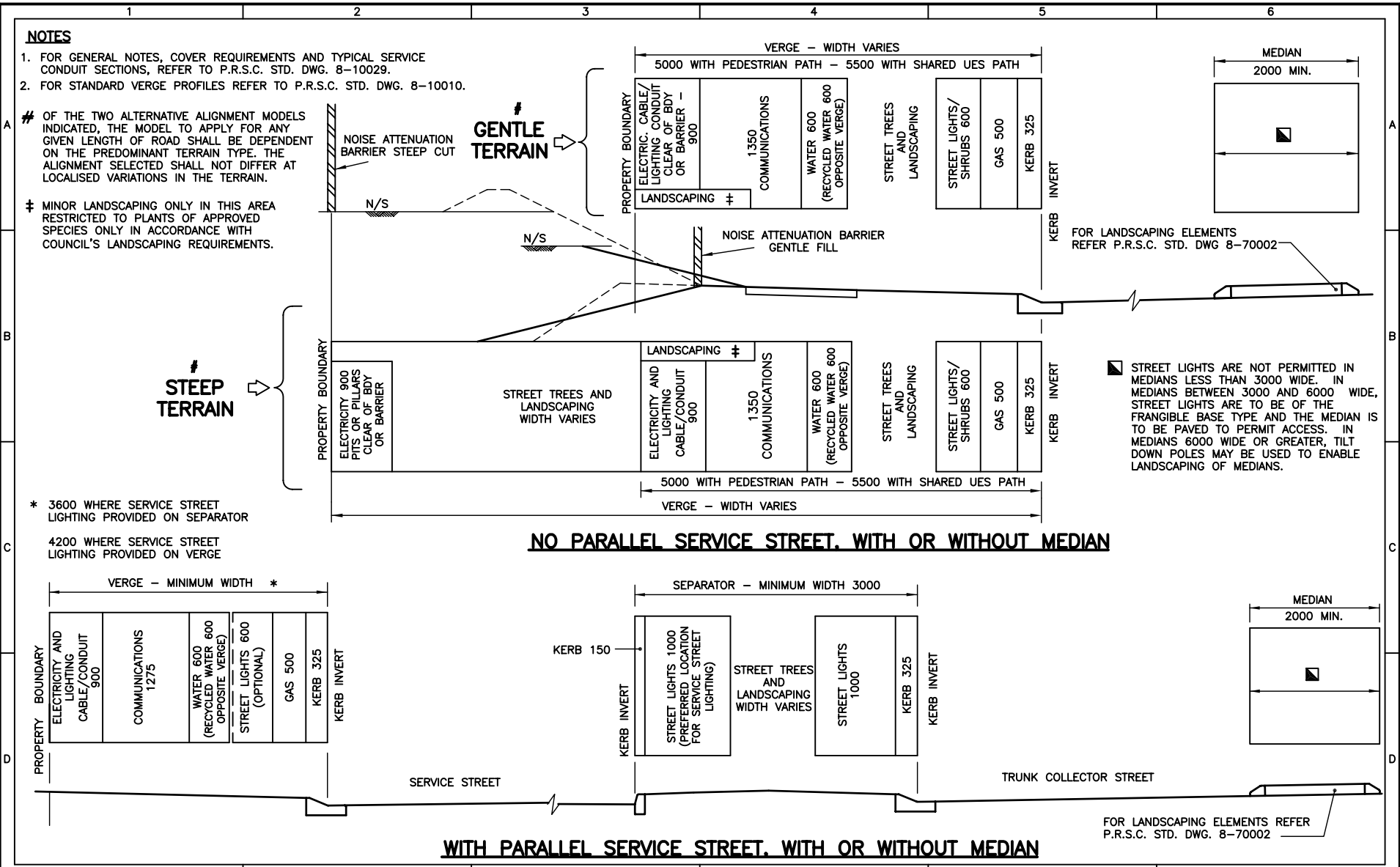
NOTES

1. FOR GENERAL NOTES, COVER REQUIREMENTS AND TYPICAL SERVICE CONDUIT SECTIONS, REFER TO P.R.S.C. STD. DWG. 8-10029.
2. FOR STANDARD VERGE PROFILES REFER TO P.R.S.C. STD. DWG. 8-10010.

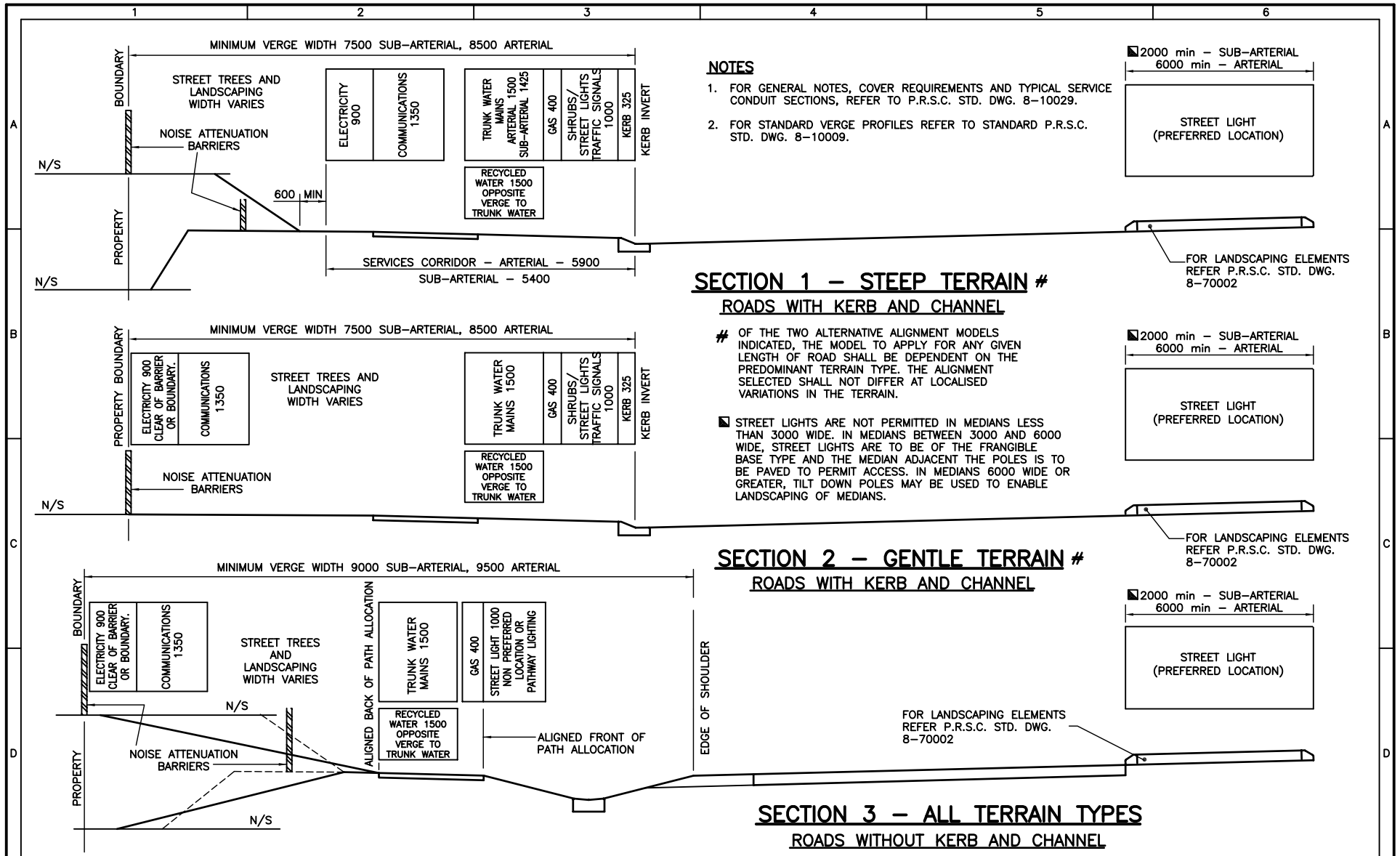
OF THE TWO ALTERNATIVE ALIGNMENT MODELS INDICATED, THE MODEL TO APPLY FOR ANY GIVEN LENGTH OF ROAD SHALL BE DEPENDENT ON THE PREDOMINANT TERRAIN TYPE. THE ALIGNMENT SELECTED SHALL NOT DIFFER AT LOCALISED VARIATIONS IN THE TERRAIN.

‡ MINOR LANDSCAPING ONLY IN THIS AREA RESTRICTED TO PLANTS OF APPROVED SPECIES ONLY IN ACCORDANCE WITH COUNCIL'S LANDSCAPING REQUIREMENTS.

- * 3600 WHERE SERVICE STREET LIGHTING PROVIDED ON SEPARATOR
- 4200 WHERE SERVICE STREET LIGHTING PROVIDED ON VERGE

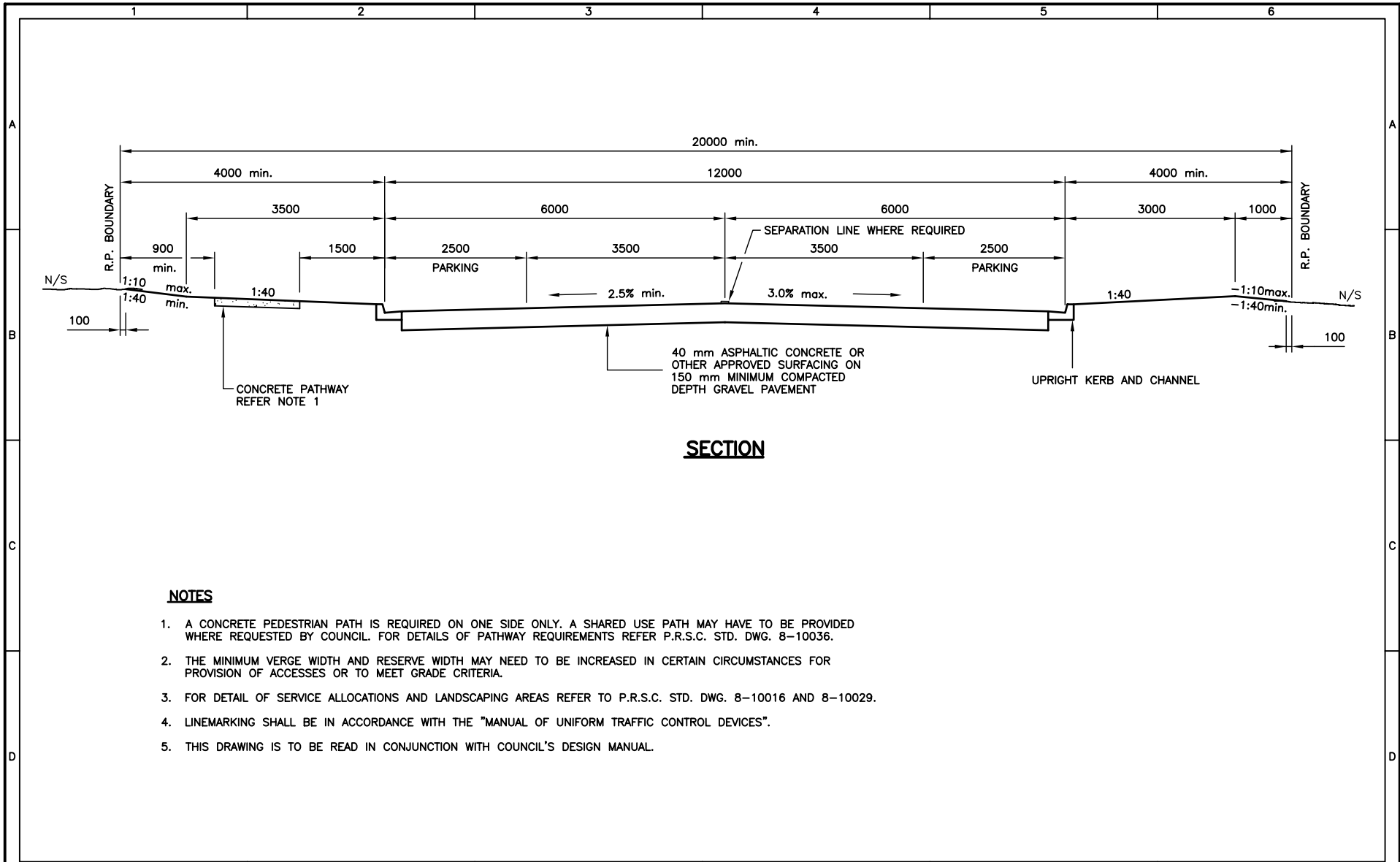


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B		Scales		Mayor		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File	Min. Page
Noise barriers moved & notes revised		NOT TO SCALE		Chief Executive Officer		Drawn JWP Traced -		SERVICE ALLOCATIONS		400/26	
Verges revised		Dimensions in mm.		Date		Checked - Recomm.		RESIDENTIAL STREETS		Drawing No.	
Original Issue						Approved F. Bk. -		TRUNK COLLECTOR STREET		8	10012
Revisions						Level Datum -				Sheet 1 of 1 Sheets	
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12/04		07/03								PINE RIVERS	
8/99											



Scales		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File	Min. Page	
NOT TO SCALE Dimensions in mm.		Mayor		SERVICE ALLOCATIONS URBAN ROADS SUB ARTERIAL AND ARTERIAL ROADS		400/26	Drawing No.	
Revisions		Chief Executive Officer				8	10013	
Date		Date		Level Datum		A3		

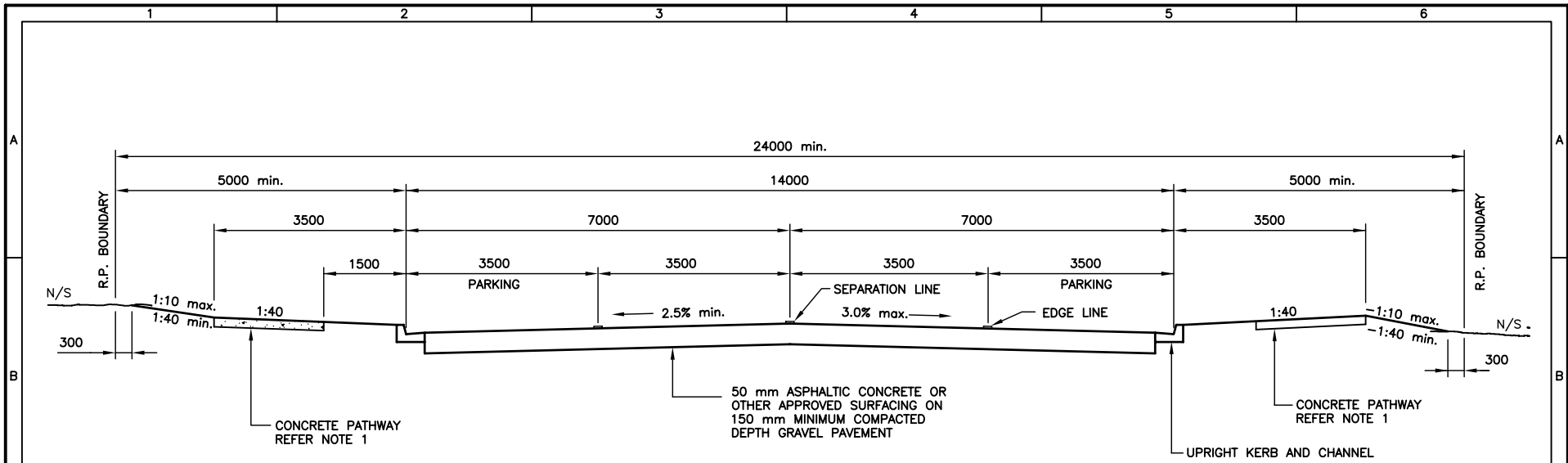
B	Noise barriers moved	11/04
A	Verges revised	07/03
	Original Issue	8/99



NOTES

1. A CONCRETE PEDESTRIAN PATH IS REQUIRED ON ONE SIDE ONLY. A SHARED USE PATH MAY HAVE TO BE PROVIDED WHERE REQUESTED BY COUNCIL. FOR DETAILS OF PATHWAY REQUIREMENTS REFER P.R.S.C. STD. DWG. 8-10036.
2. THE MINIMUM VERGE WIDTH AND RESERVE WIDTH MAY NEED TO BE INCREASED IN CERTAIN CIRCUMSTANCES FOR PROVISION OF ACCESSES OR TO MEET GRADE CRITERIA.
3. FOR DETAIL OF SERVICE ALLOCATIONS AND LANDSCAPING AREAS REFER TO P.R.S.C. STD. DWG. 8-10016 AND 8-10029.
4. LINEMARKING SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.

Scales		Mayor		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File 400/26	Min. Page	 PINE RIVERS															
NOT TO SCALE Dimensions in mm.		Chief Executive Officer		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Drawn</td><td>S.W.</td><td>Traced</td><td>CAD</td></tr> <tr> <td>Checked</td><td></td><td>Recomm.</td><td></td></tr> <tr> <td>Approved</td><td></td><td>F. Bk.</td><td></td></tr> </table>		Drawn	S.W.	Traced	CAD		Checked		Recomm.		Approved		F. Bk.		STANDARD ROAD CROSS SECTION AND VERGE DETAILS INDUSTRIAL ACCESS ROAD		Drawing No.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 2em; font-weight: bold;">8</td> <td style="font-size: 2em; font-weight: bold;">10014</td> </tr> </table>	8	10014
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Revisions		Date		Level Datum		Sheet 1 of 1 Sheets		A3																	

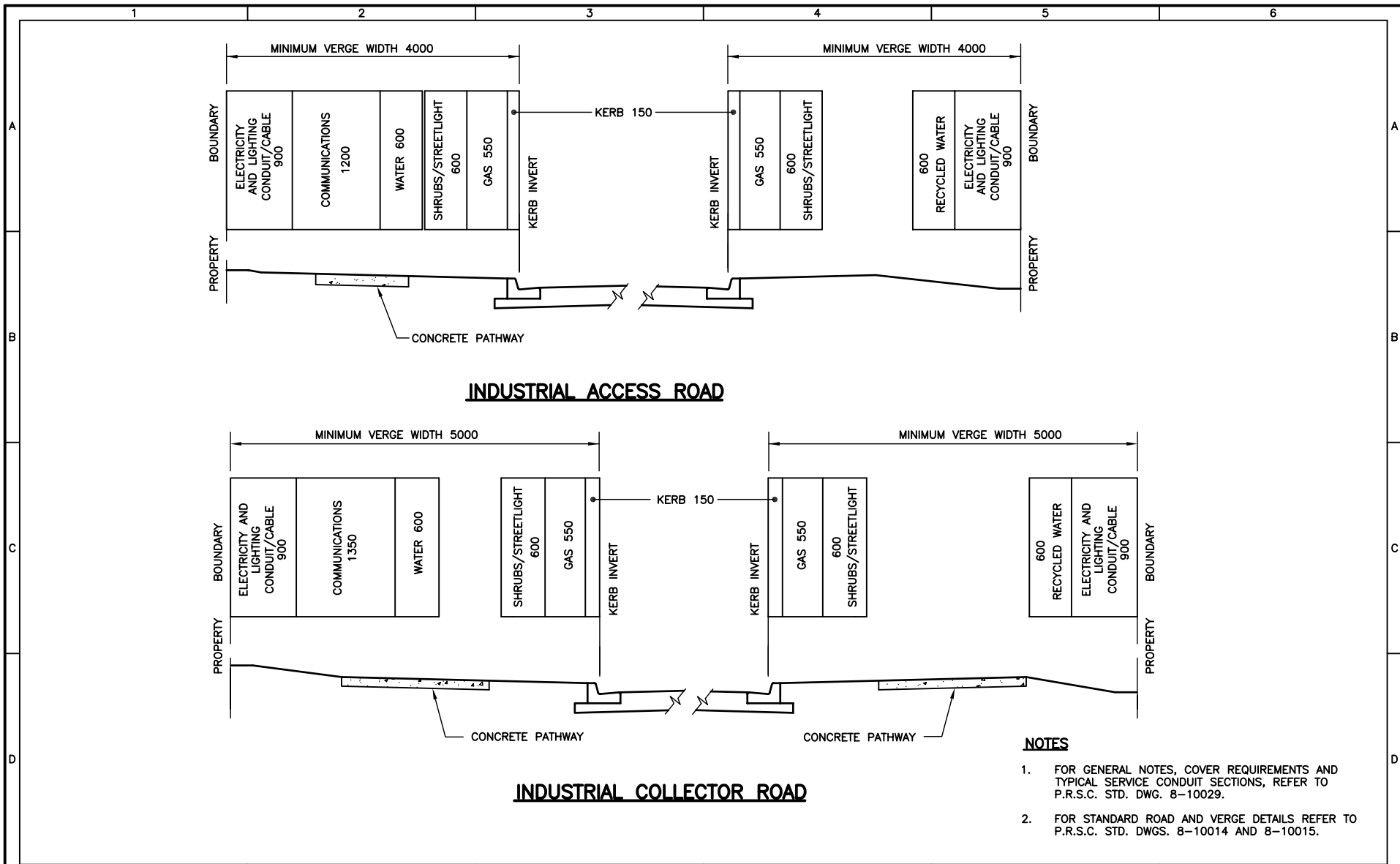



SECTION

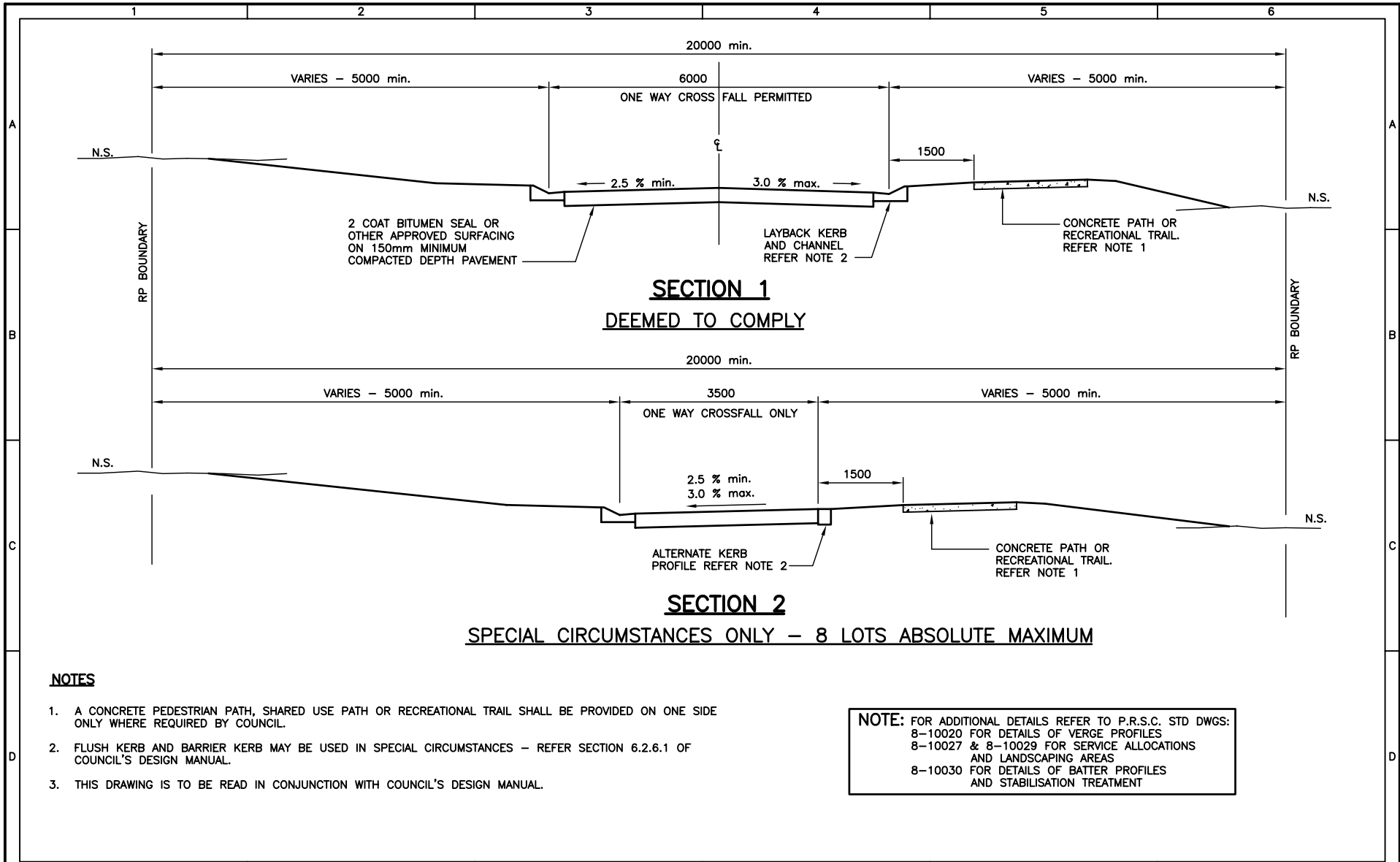
NOTES

1. A CONCRETE PEDESTRIAN PATH OR SHARED USE PATH IS REQUIRED ON BOTH VERGES OF INDUSTRIAL COLLECTOR ROADS AS SPECIFIED BY COUNCIL. FOR DETAILS OF PATHWAY REQUIREMENTS REFER P.R.S.C. STD. DWG. 8-10036.
2. THE MINIMUM VERGE WIDTH AND RESERVE WIDTH MAY NEED TO BE INCREASED IN CERTAIN CIRCUMSTANCES FOR PROVISION OF ACCESSES OR TO MEET GRADE CRITERIA.
3. FOR DETAIL OF SERVICE ALLOCATIONS AND LANDSCAPING AREAS REFER TO P.R.S.C. STD. DWG. 8-10016 AND 8-10029.
4. LINEMARKING SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.

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Revisions		Apd. Date				Level Datum		File 400/26 Min. Page		Drawing No. 8 10015	
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A		Revisions		Apd. Date		07/03 8/99		Scales		NOT TO SCALE Dimensions in mm.		Mayor		Director Assets & Development		PINE RIVERS SHIRE COUNCIL		File 400/26		Min. Page 99/2589		Drawing No.		 PINE RIVERS	
A		Verges revised		Original Issue								Chief Executive Officer		Drawn JWP Traced - Checked Recomm. Approved F. Bk. - Level Datum -		SERVICE ALLOCATIONS INDUSTRIAL ROADS ACCESS AND COLLECTOR ROADS		8		10016		A		A3	
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**SECTION 1
DEEMED TO COMPLY**

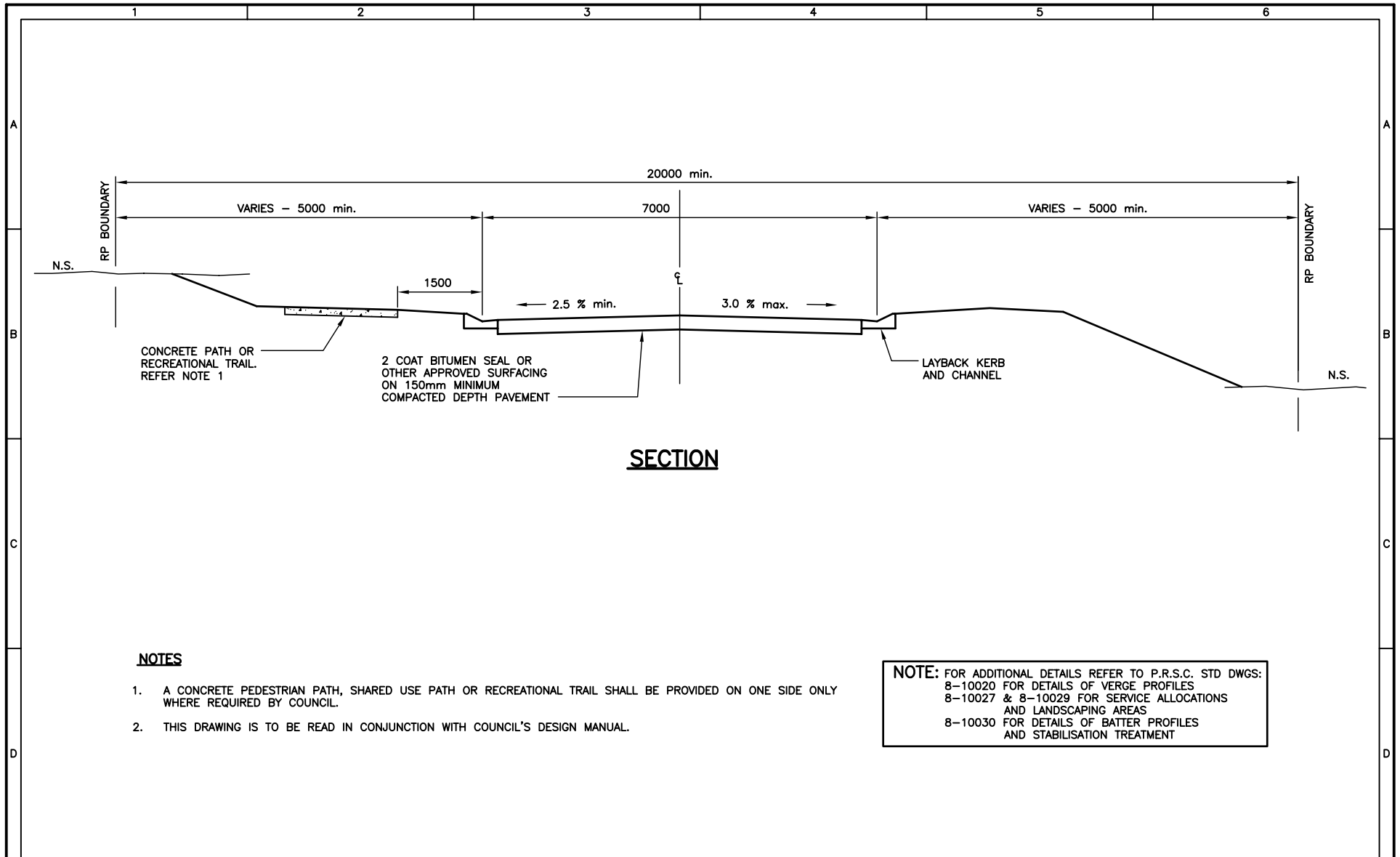
**SECTION 2
SPECIAL CIRCUMSTANCES ONLY - 8 LOTS ABSOLUTE MAXIMUM**

NOTES

1. A CONCRETE PEDESTRIAN PATH, SHARED USE PATH OR RECREATIONAL TRAIL SHALL BE PROVIDED ON ONE SIDE ONLY WHERE REQUIRED BY COUNCIL.
2. FLUSH KERB AND BARRIER KERB MAY BE USED IN SPECIAL CIRCUMSTANCES - REFER SECTION 6.2.6.1 OF COUNCIL'S DESIGN MANUAL.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.

NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10020 FOR DETAILS OF VERGE PROFILES
 8-10027 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

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B Notes revised		12/04		Scales		PINE RIVERS SHIRE COUNCIL		File		Min. Page	
A Verges & notes revised		07/03		NOT TO SCALE		STANDARD ROAD CROSS SECTIONS		400/26		Drawing No.	
Original Issue		11/95		Dimensions in mm.		NON-URBAN ROADS		8		10017	
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				Mayor		Director Assets & Infrastructure				PINE RIVERS	
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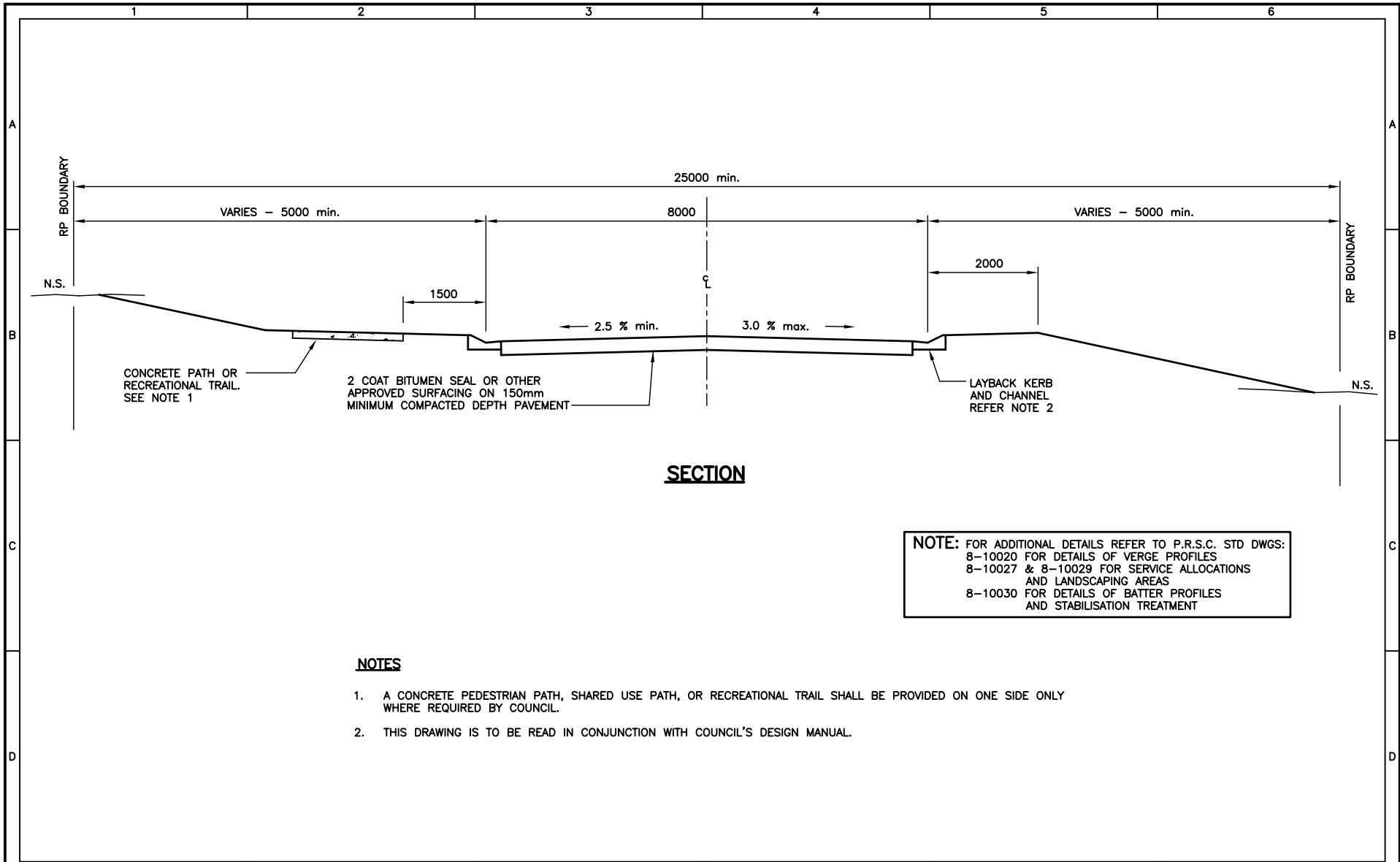


NOTES

1. A CONCRETE PEDESTRIAN PATH, SHARED USE PATH OR RECREATIONAL TRAIL SHALL BE PROVIDED ON ONE SIDE ONLY WHERE REQUIRED BY COUNCIL.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.

NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10020 FOR DETAILS OF VERGE PROFILES
 8-10027 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

		Scales		Mayor		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File 400/26	Min. Page
B Notes revised A Verges & notes revised Original Issue		NOT TO SCALE Dimensions in mm.		Chief Executive Officer Date:		Drawn S.W. Traced CAD Checked Recomm. Approved F. Bk.		STANDARD ROAD CROSS SECTIONS NON-URBAN ROADS RURAL RESIDENTIAL ACCESS STREET		Drawing No. 8 10018	
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						Revisions		Apd. Date		Date	



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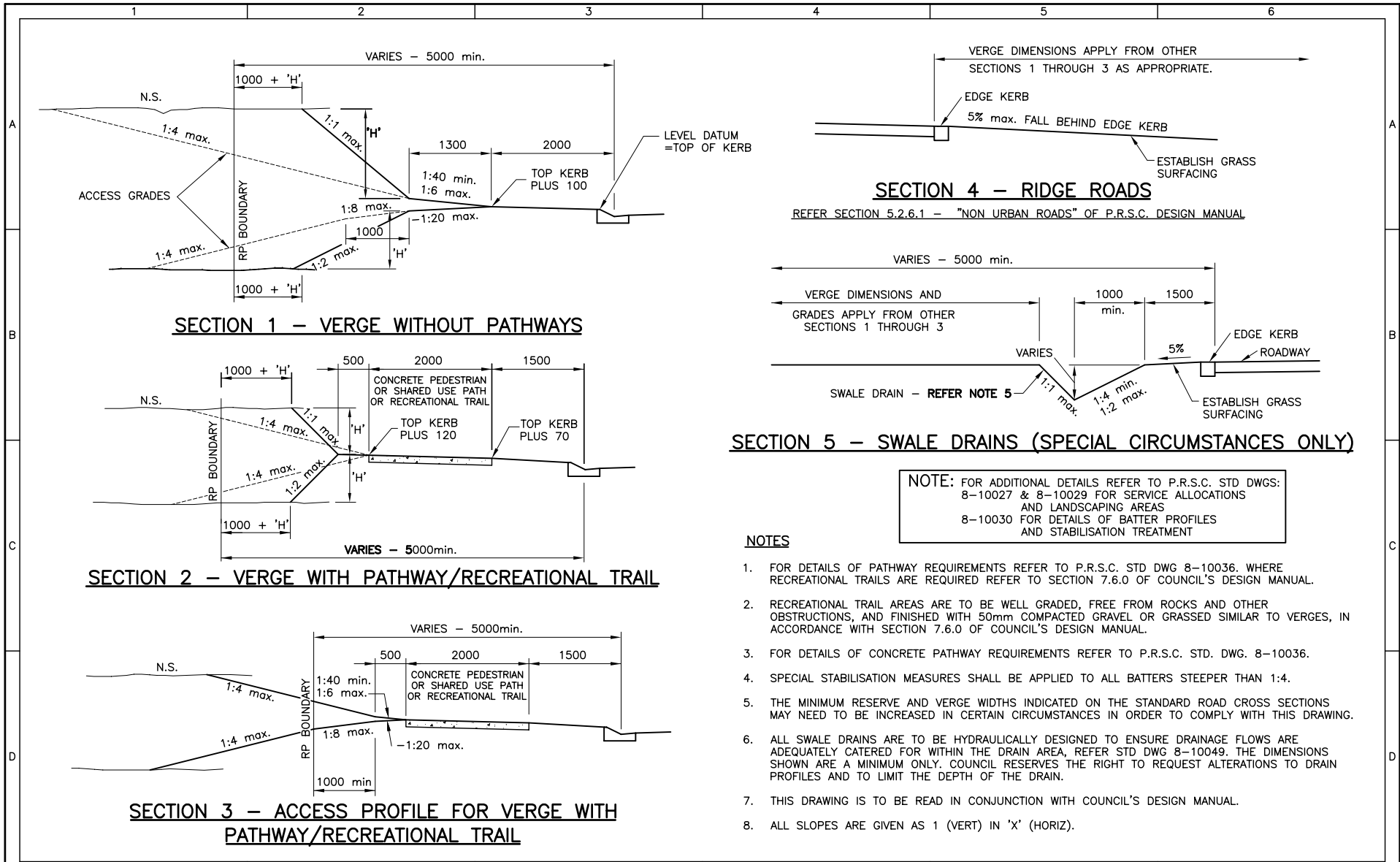
NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10020 FOR DETAILS OF VERGE PROFILES
 8-10027 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

NOTES

1. A CONCRETE PEDESTRIAN PATH, SHARED USE PATH, OR RECREATIONAL TRAIL SHALL BE PROVIDED ON ONE SIDE ONLY WHERE REQUIRED BY COUNCIL.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.

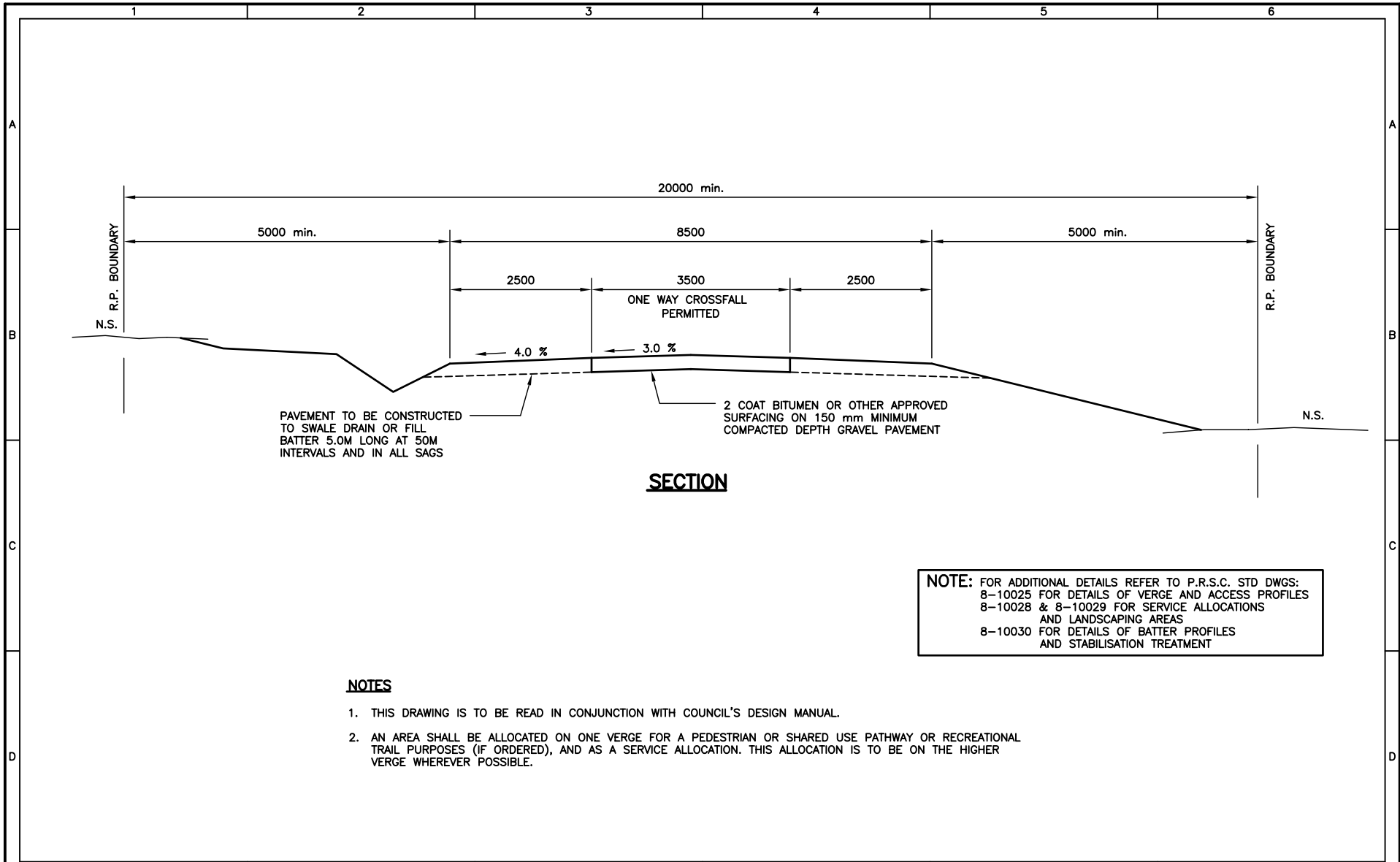
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B Notes revised A Verges & notes revised Original Issue		NOT TO SCALE Dimensions in mm.		Chief Executive Officer		Drawn	S.W.	Traced	CAD	Drawing No.	
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	07/03	11/95			Date						Sheet 1 of 1 Sheets
Revisions		Apd.	Date								





- NOTES**
- FOR DETAILS OF PATHWAY REQUIREMENTS REFER TO P.R.S.C. STD DWG 8-10036. WHERE RECREATIONAL TRAILS ARE REQUIRED REFER TO SECTION 7.6.0 OF COUNCIL'S DESIGN MANUAL.
 - RECREATIONAL TRAIL AREAS ARE TO BE WELL GRADED, FREE FROM ROCKS AND OTHER OBSTRUCTIONS, AND FINISHED WITH 50mm COMPACTED GRAVEL OR GRASSED SIMILAR TO VERGES, IN ACCORDANCE WITH SECTION 7.6.0 OF COUNCIL'S DESIGN MANUAL.
 - FOR DETAILS OF CONCRETE PATHWAY REQUIREMENTS REFER TO P.R.S.C. STD. DWG. 8-10036.
 - SPECIAL STABILISATION MEASURES SHALL BE APPLIED TO ALL BATTERS STEEPER THAN 1:4.
 - THE MINIMUM RESERVE AND VERGE WIDTHS INDICATED ON THE STANDARD ROAD CROSS SECTIONS MAY NEED TO BE INCREASED IN CERTAIN CIRCUMSTANCES IN ORDER TO COMPLY WITH THIS DRAWING.
 - ALL SWALE DRAINS ARE TO BE HYDRAULICALLY DESIGNED TO ENSURE DRAINAGE FLOWS ARE ADEQUATELY CATERED FOR WITHIN THE DRAIN AREA, REFER STD DWG 8-10049. THE DIMENSIONS SHOWN ARE A MINIMUM ONLY. COUNCIL RESERVES THE RIGHT TO REQUEST ALTERATIONS TO DRAIN PROFILES AND TO LIMIT THE DEPTH OF THE DRAIN.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
 - ALL SLOPES ARE GIVEN AS 1 (VERT) IN 'X' (HORIZ).

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B Notes revised		Scales		Mayor		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File	Min. Page
A Verges & notes revised		NOT TO SCALE		Chief Executive Officer		Drawn S.W. Traced CAD		STANDARD VERGE AND ACCESS PROFILES		400/26	
Original Issue		Dimensions in mm.		Date		Checked Recomm.		NON-URBAN ROADS		Drawing No.	
Revisions		12/04				Approved F. Bk.		RURAL RESIDENTIAL ACCESS PLACE, ACCESS		8	10020
Apd. Date		07/03				Level Datum		STREET AND COLLECTOR STREET		Sheet 1 of 1 Sheets	
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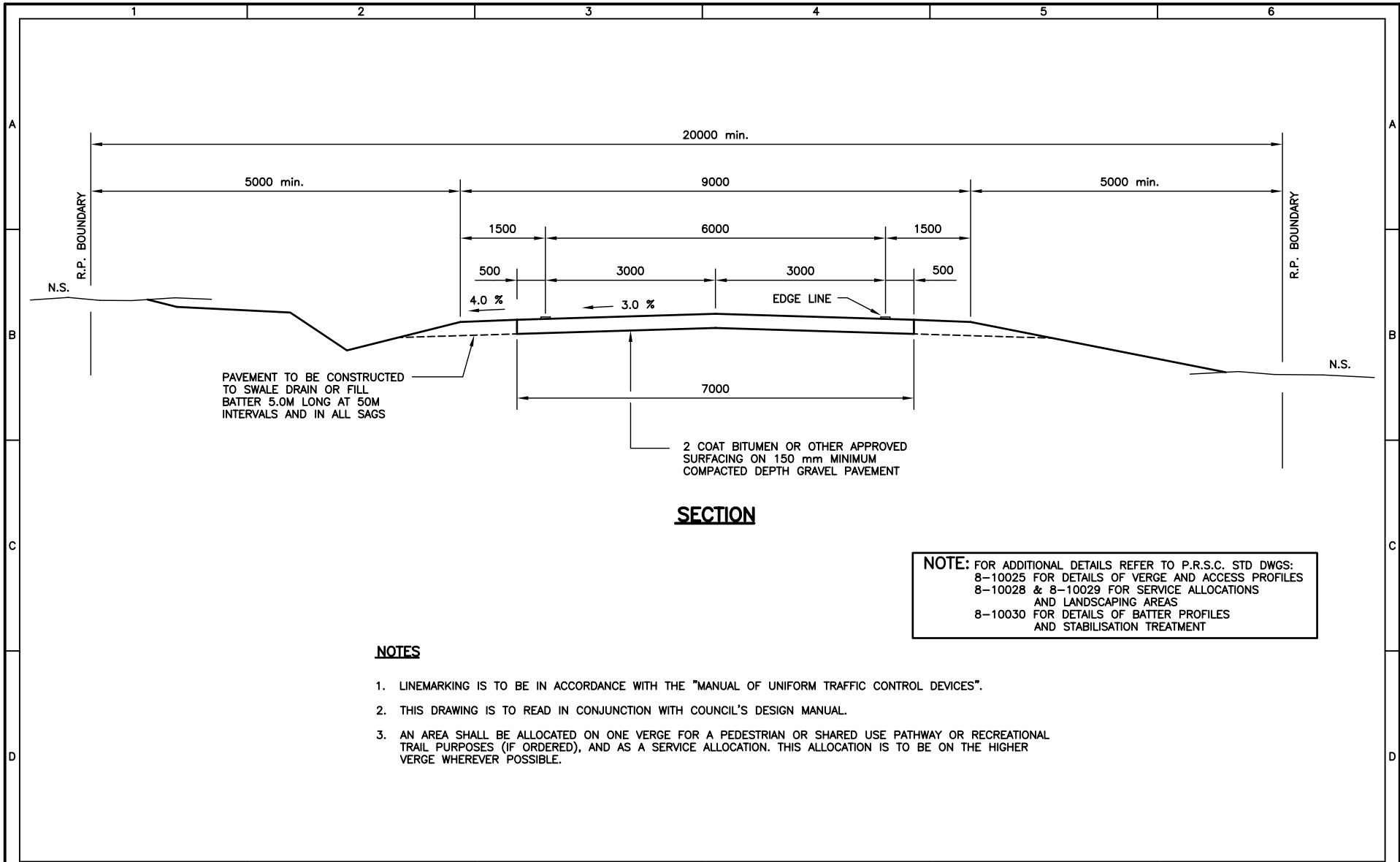


NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10025 FOR DETAILS OF VERGE AND ACCESS PROFILES
 8-10028 & 8-10029 FOR SERVICE ALLOCATIONS
 AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES
 AND STABILISATION TREATMENT

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
2. AN AREA SHALL BE ALLOCATED ON ONE VERGE FOR A PEDESTRIAN OR SHARED USE PATHWAY OR RECREATIONAL TRAIL PURPOSES (IF ORDERED), AND AS A SERVICE ALLOCATION. THIS ALLOCATION IS TO BE ON THE HIGHER VERGE WHEREVER POSSIBLE.

		Scales		Mayor		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File 400/26	Min. Page
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	Original Issue	11/95		Date	Approved	F. Bk.	STANDARD ROAD CROSS SECTIONS NON-URBAN ROADS RURAL ACCESS ROAD			Sheet 1	of 1 Sheets
Revisions		Apd.	Date	Level Datum				A3			



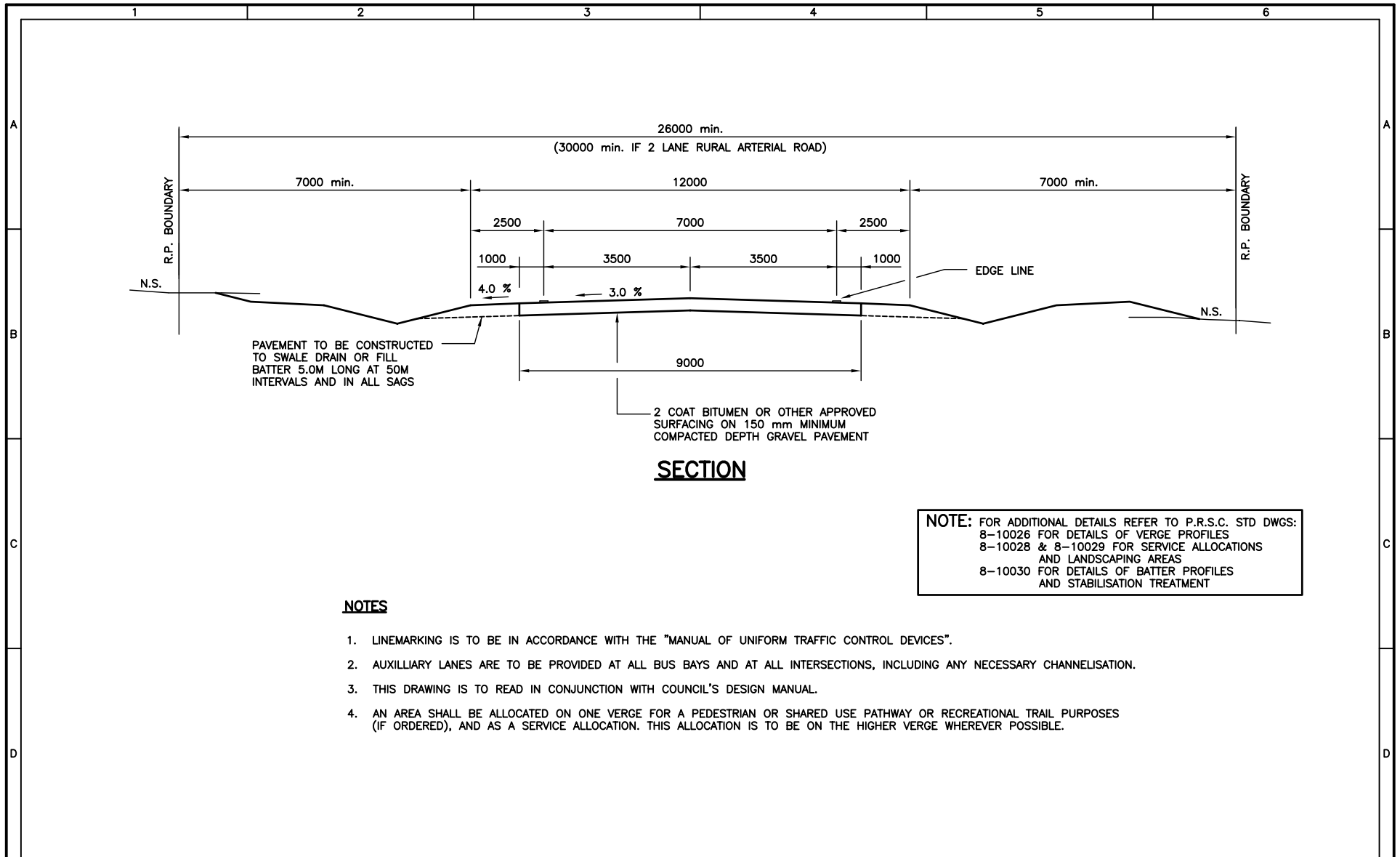
SECTION

NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10025 FOR DETAILS OF VERGE AND ACCESS PROFILES
 8-10028 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

NOTES

1. LINEMARKING IS TO BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
2. THIS DRAWING IS TO READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
3. AN AREA SHALL BE ALLOCATED ON ONE VERGE FOR A PEDESTRIAN OR SHARED USE PATHWAY OR RECREATIONAL TRAIL PURPOSES (IF ORDERED), AND AS A SERVICE ALLOCATION. THIS ALLOCATION IS TO BE ON THE HIGHER VERGE WHEREVER POSSIBLE.

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A Verges & notes revised		NOT TO SCALE		Mayor		STANDARD ROAD CROSS SECTIONS		400/26		Drawing No.	
Original Issue		Dimensions in mm.		Chief Executive Officer		NON-URBAN ROADS		8		10022	
Revisions		Date		Date		RURAL COLLECTOR ROAD		Sheet 1 of 1 Sheets		A3	
12/04										PINE RIVERS	
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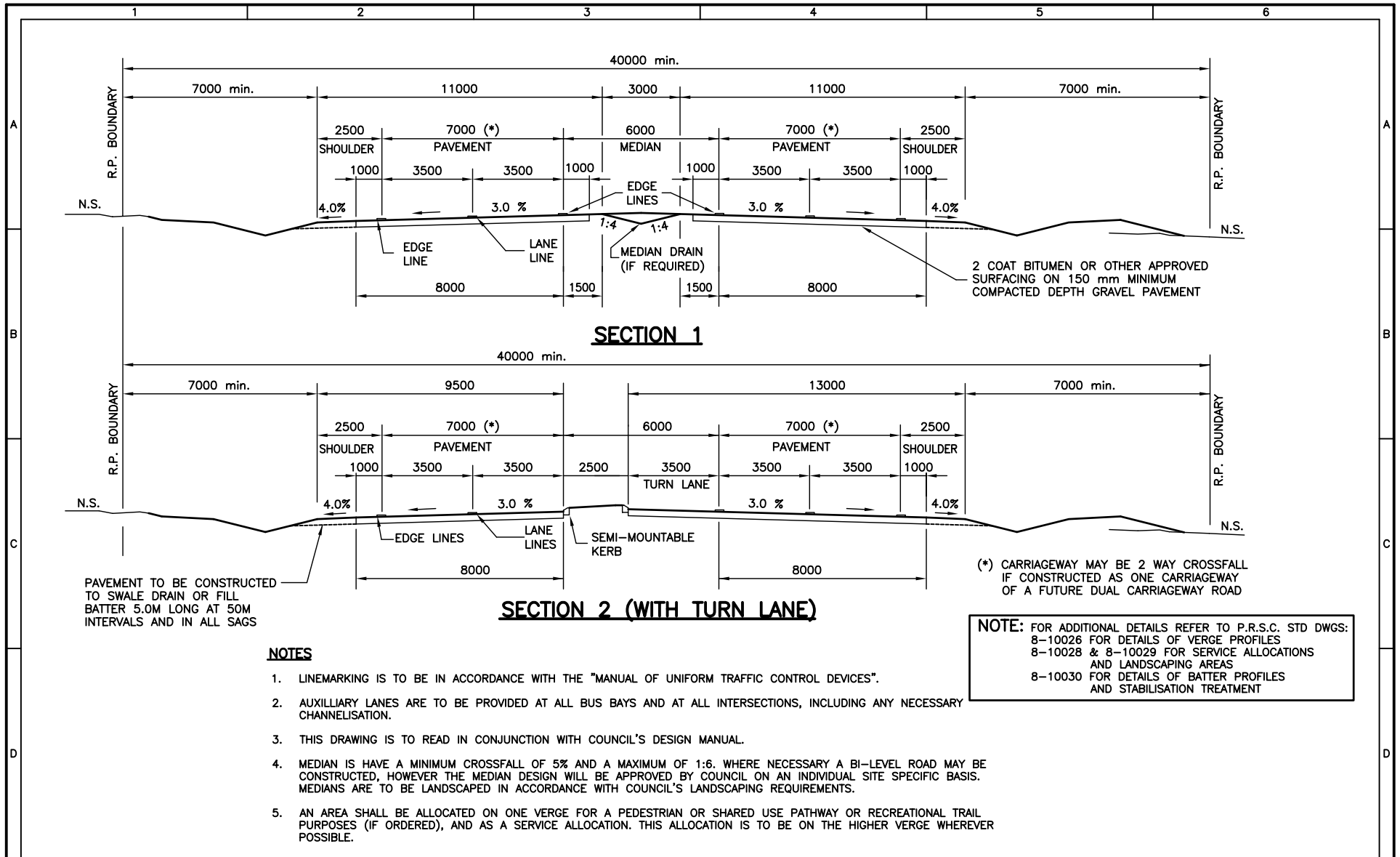
SECTION

NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10026 FOR DETAILS OF VERGE PROFILES
 8-10028 & 8-10029 FOR SERVICE ALLOCATIONS AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES AND STABILISATION TREATMENT

NOTES

1. LINEMARKING IS TO BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
2. AUXILLIARY LANES ARE TO BE PROVIDED AT ALL BUS BAYS AND AT ALL INTERSECTIONS, INCLUDING ANY NECESSARY CHANNELISATION.
3. THIS DRAWING IS TO READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
4. AN AREA SHALL BE ALLOCATED ON ONE VERGE FOR A PEDESTRIAN OR SHARED USE PATHWAY OR RECREATIONAL TRAIL PURPOSES (IF ORDERED), AND AS A SERVICE ALLOCATION. THIS ALLOCATION IS TO BE ON THE HIGHER VERGE WHEREVER POSSIBLE.

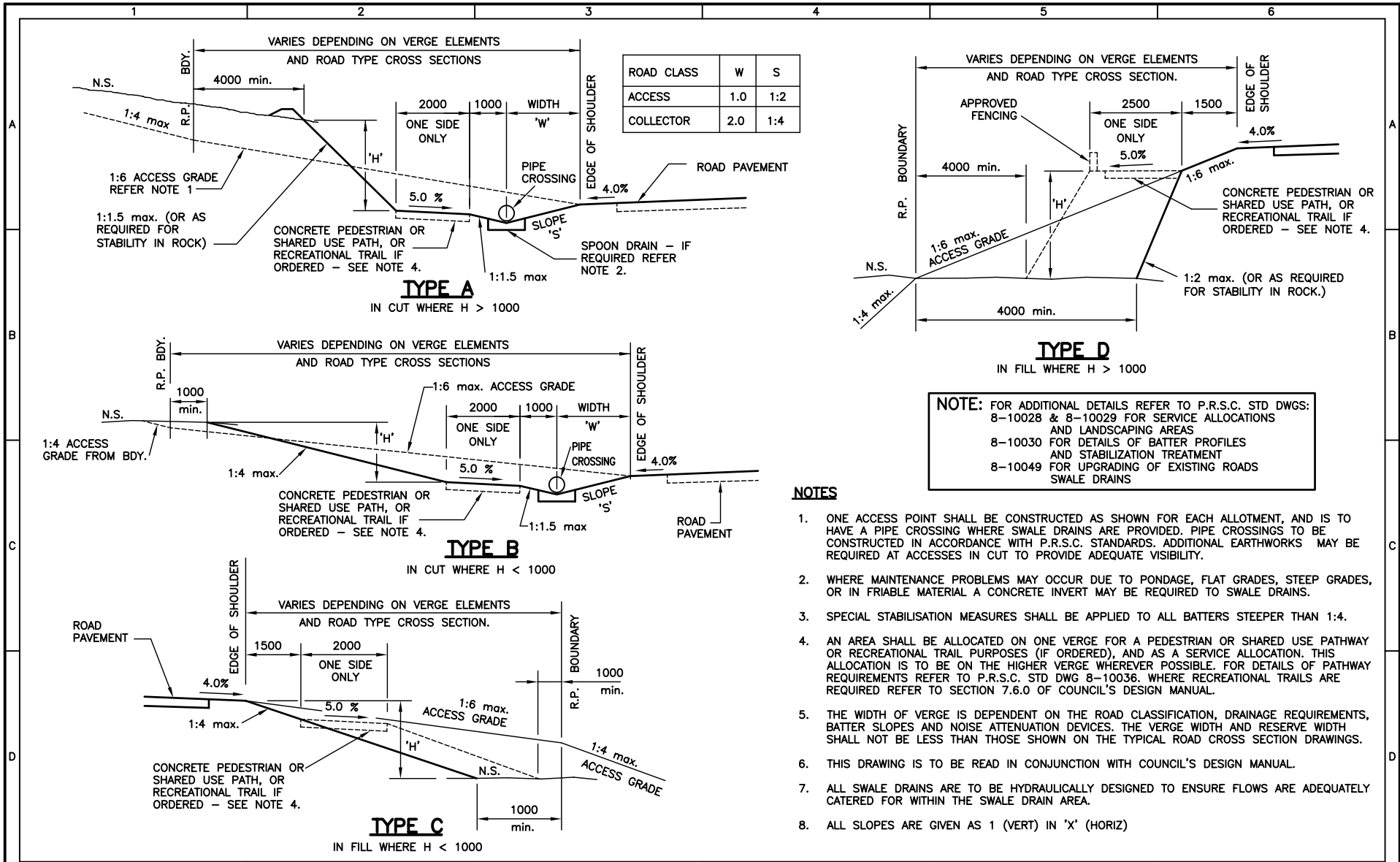
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A Verges & notes revised		NOT TO SCALE		Mayor		STANDARD ROAD CROSS SECTIONS		400/26		Drawing No.	
Original Issue		Dimensions in mm.		Chief Executive Officer		NON-URBAN ROADS		8	10023	A3	
Revisions				Date		RURAL SUB-ARTERIAL ROAD		Sheet 1 of 1 Sheets			
Apd.	Date										




NOTES

1. LINEMARKING IS TO BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
2. AUXILIARY LANES ARE TO BE PROVIDED AT ALL BUS BAYS AND AT ALL INTERSECTIONS, INCLUDING ANY NECESSARY CHANNELISATION.
3. THIS DRAWING IS TO READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
4. MEDIAN IS HAVE A MINIMUM CROSSFALL OF 5% AND A MAXIMUM OF 1:6. WHERE NECESSARY A BI-LEVEL ROAD MAY BE CONSTRUCTED, HOWEVER THE MEDIAN DESIGN WILL BE APPROVED BY COUNCIL ON AN INDIVIDUAL SITE SPECIFIC BASIS. MEDIANS ARE TO BE LANDSCAPED IN ACCORDANCE WITH COUNCIL'S LANDSCAPING REQUIREMENTS.
5. AN AREA SHALL BE ALLOCATED ON ONE VERGE FOR A PEDESTRIAN OR SHARED USE PATHWAY OR RECREATIONAL TRAIL PURPOSES (IF ORDERED), AND AS A SERVICE ALLOCATION. THIS ALLOCATION IS TO BE ON THE HIGHER VERGE WHEREVER POSSIBLE.

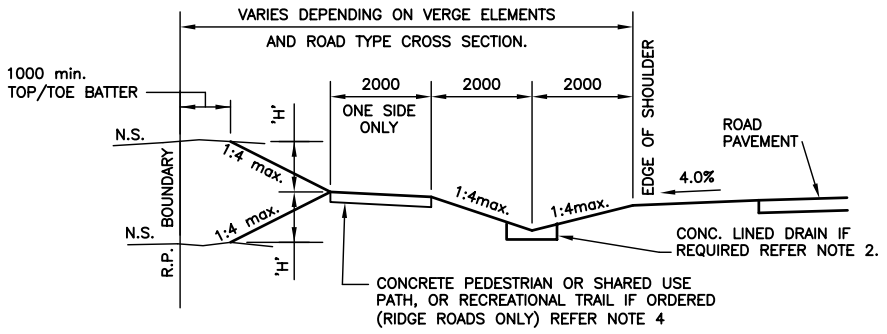
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A Verges & notes revised		07/03		NOT TO SCALE		STANDARD ROAD CROSS SECTIONS		400/26		Drawing No.	
Original Issue		11/95		Dimensions in mm.		NON-URBAN ROADS		8		10024	
Revisions		Apd. Date		Mayor		RURAL ARTERIAL ROAD		Sheet 1 of 1 Sheets		A3	
				Chief Executive Officer		Director Assets & Infrastructure					
				Date		Drawn S.W. Traced CAD					
						Checked Recomm.					
						Approved F. Bk.					
						Level Datum					



- NOTES**
- ONE ACCESS POINT SHALL BE CONSTRUCTED AS SHOWN FOR EACH ALLOTMENT, AND IS TO HAVE A PIPE CROSSING WHERE SWALE DRAINS ARE PROVIDED. PIPE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH P.R.S.C. STANDARDS. ADDITIONAL EARTHWORKS MAY BE REQUIRED AT ACCESSES IN CUT TO PROVIDE ADEQUATE VISIBILITY.
 - WHERE MAINTENANCE PROBLEMS MAY OCCUR DUE TO PONDAGE, FLAT GRADES, STEEP GRADES, OR IN FRIABLE MATERIAL A CONCRETE INVERT MAY BE REQUIRED TO SWALE DRAINS.
 - SPECIAL STABILISATION MEASURES SHALL BE APPLIED TO ALL BATTERS STEEPER THAN 1:4.
 - AN AREA SHALL BE ALLOCATED ON ONE VERGE FOR A PEDESTRIAN OR SHARED USE PATHWAY OR RECREATIONAL TRAIL PURPOSES (IF ORDERED), AND AS A SERVICE ALLOCATION. THIS ALLOCATION IS TO BE ON THE HIGHER VERGE WHEREVER POSSIBLE. FOR DETAILS OF PATHWAY REQUIREMENTS REFER TO P.R.S.C. STD DWG 8-10036. WHERE RECREATIONAL TRAILS ARE REQUIRED REFER TO SECTION 7.6.0 OF COUNCIL'S DESIGN MANUAL.
 - THE WIDTH OF VERGE IS DEPENDENT ON THE ROAD CLASSIFICATION, DRAINAGE REQUIREMENTS, BATTER SLOPES AND NOISE ATTENUATION DEVICES. THE VERGE WIDTH AND RESERVE WIDTH SHALL NOT BE LESS THAN THOSE SHOWN ON THE TYPICAL ROAD CROSS SECTION DRAWINGS.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
 - ALL SWALE DRAINS ARE TO BE HYDRAULICALLY DESIGNED TO ENSURE FLOWS ARE ADEQUATELY CATERED FOR WITHIN THE SWALE DRAIN AREA.
 - ALL SLOPES ARE GIVEN AS 1 (VERT) IN 'X' (HORIZ)

Scales		Mayor		PINE RIVERS SHIRE COUNCIL		File	Min. Page	
NOT TO SCALE Dimensions in mm.		Chief Executive Officer		STANDARD VERGE PROFILES NON-URBAN ROADS RURAL ACCESS AND COLLECTOR ROADS		400/26	Drawing No.	
Revisions		Date		Level Datum		8	10025	
B Notes revised 12/04 A Verges & notes revised 07/03 Original Issue 11/95		Date				Sheet 1 of 1 Sheets		A3

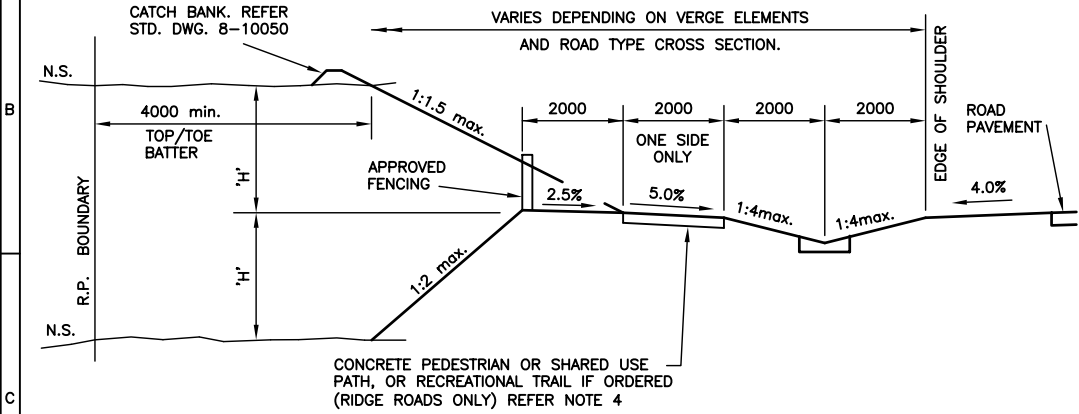
NOTE: FOR ADDITIONAL DETAILS REFER TO P.R.S.C. STD DWGS:
 8-10028 & 8-10029 FOR SERVICE ALLOCATIONS
 AND LANDSCAPING AREAS
 8-10030 FOR DETAILS OF BATTER PROFILES
 AND STABILIZATION TREATMENT
 8-10049 FOR UPGRADING OF EXISTING ROADS
 SWALE DRAINS



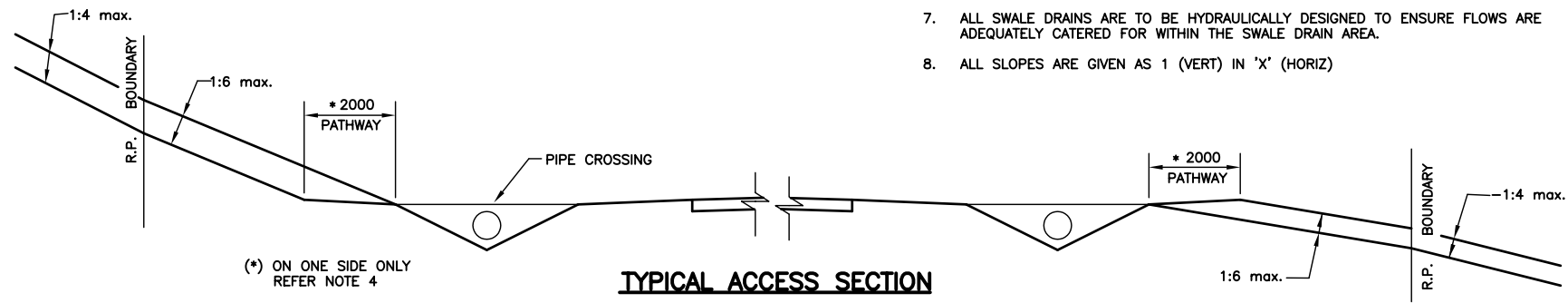
TYPE A
 WHERE H < 1000

NOTES

- ONE ACCESS POINT SHALL BE CONSTRUCTED AS SHOWN FOR EACH ALLOTMENT, AND IS TO HAVE A PIPE CROSSING WHERE SWALE DRAINS ARE PROVIDED. PIPE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH P.R.S.C. STANDARDS. ADDITIONAL EARTHWORKS MAY BE REQUIRED AT ACCESSES IN CUT TO PROVIDE ADEQUATE VISIBILITY.
- WHERE MAINTENANCE PROBLEMS MAY OCCUR DUE TO PONDAGE, FLAT GRADES, STEEP GRADES, OR IN FRIABLE MATERIAL A CONCRETE INVERT MAY BE REQUIRED TO SWALE DRAINS.
- SPECIAL STABILISATION MEASURES SHALL BE APPLIED TO ALL BATTERS STEEPER THAN 1:4.
- AN AREA RESERVE SHALL BE MAINTAINED ON ONE VERGE FOR A PEDESTRIAN OR SHARED USE PATHWAY OR RECREATIONAL TRAIL PURPOSES (IF ORDERED), AND AS A SERVICE ALLOCATION. THIS ALLOCATION IS TO BE ON THE HIGHER VERGE WHEREVER POSSIBLE. FOR DETAILS OF PATHWAY REQUIREMENTS REFER TO P.R.S.C. STD DWG 8-10036. WHERE RECREATIONAL TRAILS ARE REQUIRED REFER TO SECTION 7.6.0 OF COUNCIL'S DESIGN MANUAL.
- THE WIDTH OF VERGE IS DEPENDENT ON THE ROAD CLASSIFICATION, DRAINAGE REQUIREMENTS, BATTER SLOPES AND NOISE ATTENUATION DEVICES. THE VERGE WIDTH AND RESERVE WIDTH SHALL NOT BE LESS THAN THOSE SHOWN ON THE TYPICAL ROAD CROSS SECTION DRAWINGS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH COUNCIL'S DESIGN MANUAL.
- ALL SWALE DRAINS ARE TO BE HYDRAULICALLY DESIGNED TO ENSURE FLOWS ARE ADEQUATELY CATERED FOR WITHIN THE SWALE DRAIN AREA.
- ALL SLOPES ARE GIVEN AS 1 (VERT) IN 'X' (HORIZ)



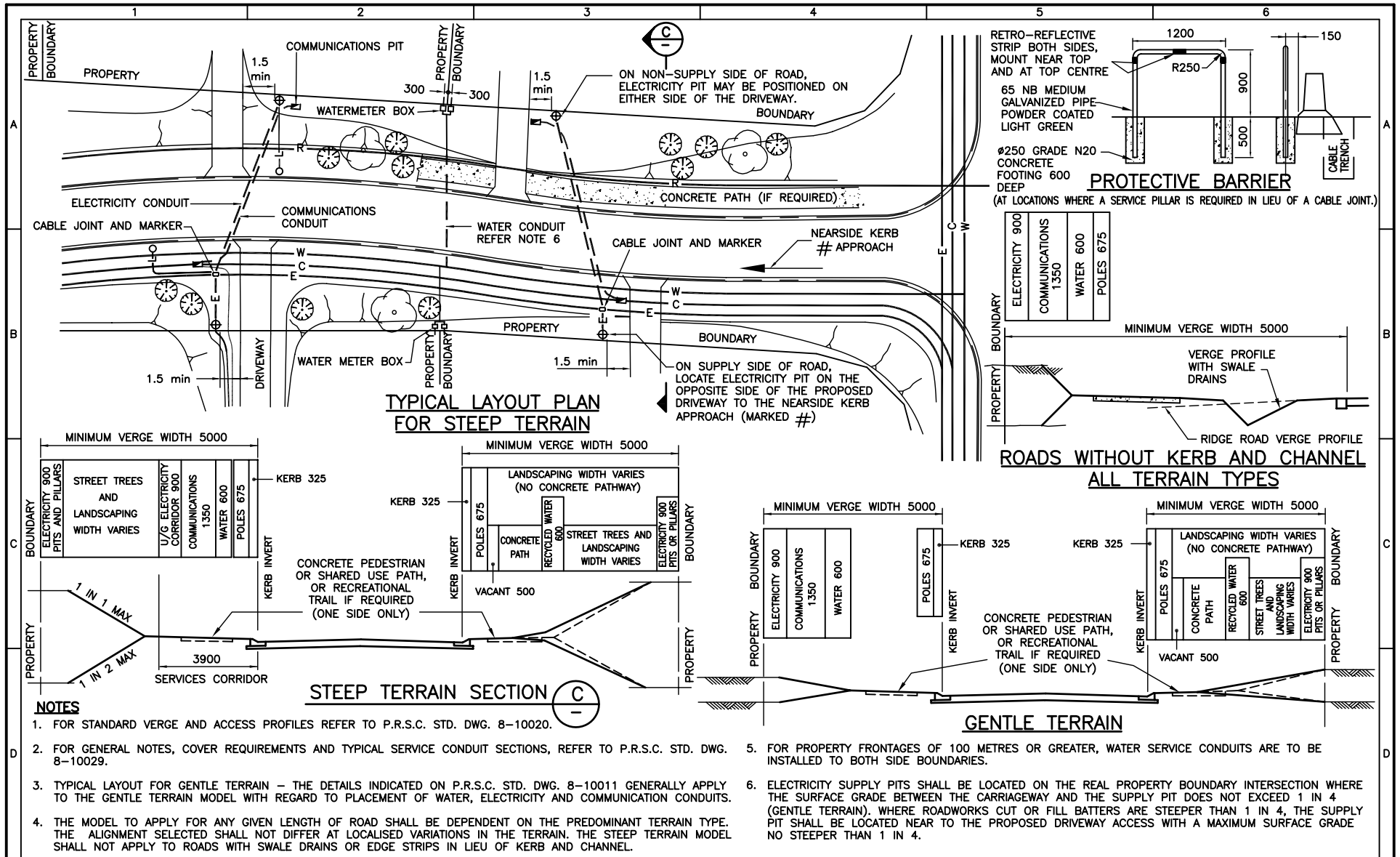
TYPE B
 WHERE H > 1000



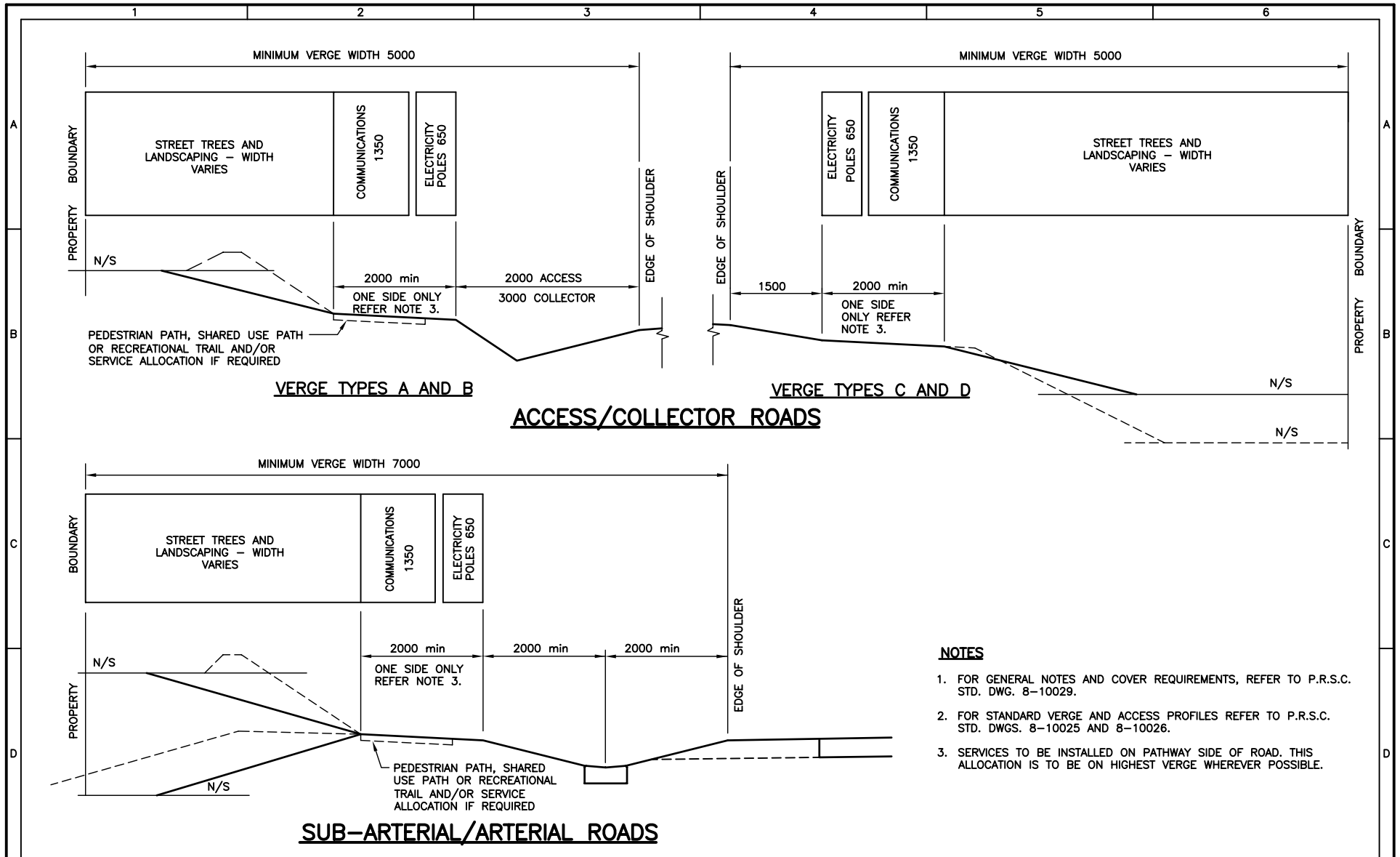
TYPICAL ACCESS SECTION

(* ON ONE SIDE ONLY
 REFER NOTE 4

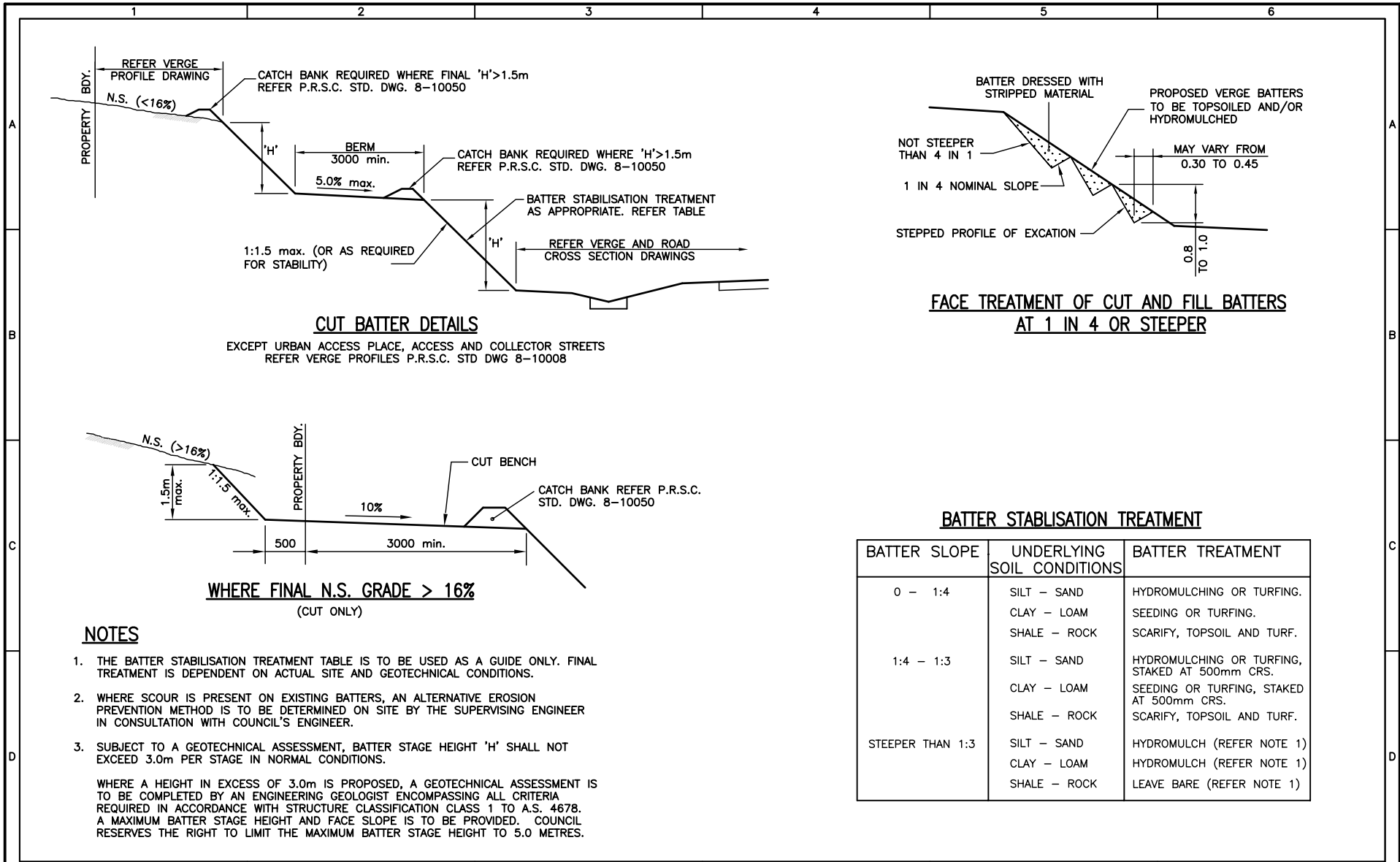
1		2		3		4		5		6	
B Notes revised		Scales		Mayor		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File 400/26	
A Verges & notes revised		NOT TO SCALE		Chief Executive Officer		Drawn S.W. Traced CAD		STANDARD VERGE PROFILES		Drawing No.	
Original Issue		Dimensions in mm.		Date		Checked Recomm.		RURAL SUB-ARTERIAL AND ARTERIAL ROADS		8 10026	
Revisions		Apd. Date		Level Datum		Approved F. Bk.		Sheet 1 of 1 Sheets		A3	
12/04										PINE RIVERS	
07/03											
11/95											



A		Scales		Director Assets & Development		PINE RIVERS SHIRE COUNCIL		File	Min. Page	
Verges Revised		NOT TO SCALE Dimensions in mm.		Mayor		SERVICE ALLOCATIONS NON-URBAN ROADS RURAL RESIDENTIAL ACCESS PLACE, ACCESS STREET AND COLLECTOR STREET		400/26	99/2589	
Original Issue				Chief Executive Officer				Drawing No.		
Revisions		Date		Date				8 10027		A3
Apd.		07/03 8/99						Sheet 1 of 1 Sheets		



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A		Scales		Director Assets & Development		PINE RIVERS SHIRE COUNCIL		File		Min. Page	
Verges revised		NOT TO SCALE		Mayor		SERVICE ALLOCATIONS		400/26		99/2589	
Original Issue		Dimensions in mm.		Chief Executive Officer		NON-URBAN ROADS		Drawing No.		A	
Revisions				Date		RURAL ACCESS, COLLECTOR,		8		10028	
Apd.						SUB-ARTERIAL AND ARTERIAL ROADS		Sheet		1 of 1 Sheets	
Date								A3			
07/03											
8/99											



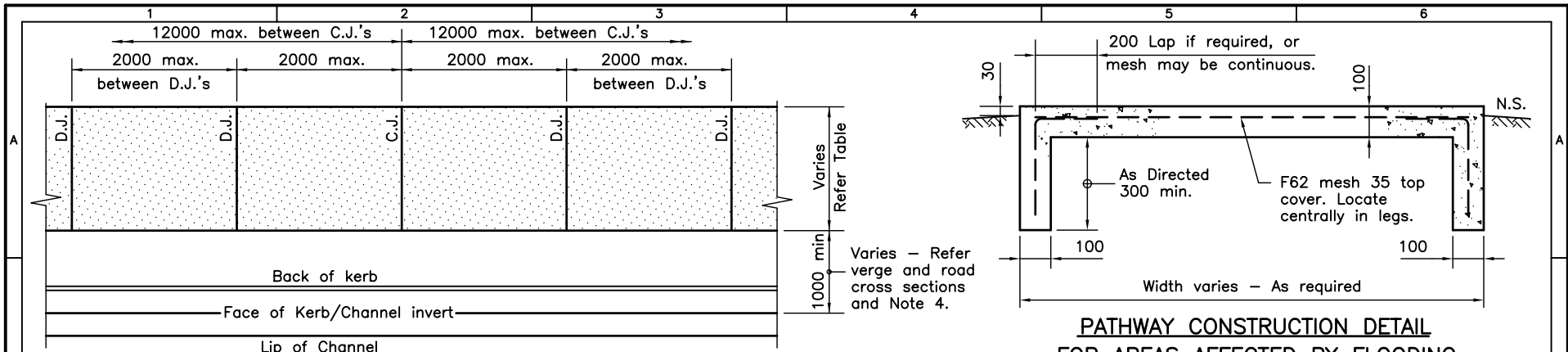
**WHERE FINAL N.S. GRADE > 16%
(CUT ONLY)**

NOTES

1. THE BATTER STABILISATION TREATMENT TABLE IS TO BE USED AS A GUIDE ONLY. FINAL TREATMENT IS DEPENDENT ON ACTUAL SITE AND GEOTECHNICAL CONDITIONS.
2. WHERE SCOUR IS PRESENT ON EXISTING BATTERS, AN ALTERNATIVE EROSION PREVENTION METHOD IS TO BE DETERMINED ON SITE BY THE SUPERVISING ENGINEER IN CONSULTATION WITH COUNCIL'S ENGINEER.
3. SUBJECT TO A GEOTECHNICAL ASSESSMENT, BATTER STAGE HEIGHT 'H' SHALL NOT EXCEED 3.0m PER STAGE IN NORMAL CONDITIONS.

WHERE A HEIGHT IN EXCESS OF 3.0m IS PROPOSED, A GEOTECHNICAL ASSESSMENT IS TO BE COMPLETED BY AN ENGINEERING GEOLOGIST ENCOMPASSING ALL CRITERIA REQUIRED IN ACCORDANCE WITH STRUCTURE CLASSIFICATION CLASS 1 TO A.S. 4678. A MAXIMUM BATTER STAGE HEIGHT AND FACE SLOPE IS TO BE PROVIDED. COUNCIL RESERVES THE RIGHT TO LIMIT THE MAXIMUM BATTER STAGE HEIGHT TO 5.0 METRES.

1		2		3		4		5		6															
Scales		NOT TO SCALE Dimensions in mm.		Mayor		Director Assets & Development		PINE RIVERS SHIRE COUNCIL		File 400/26	Min. Page														
Original Issue		7/03		Chief Executive Officer		<table border="1"> <tr> <td>Drawn</td> <td>SA</td> <td>Traced</td> <td>CAD</td> </tr> <tr> <td>Checked</td> <td></td> <td>Recomm.</td> <td></td> </tr> <tr> <td>Approved</td> <td></td> <td>F. Bk.</td> <td></td> </tr> </table>		Drawn	SA	Traced	CAD	Checked		Recomm.		Approved		F. Bk.		STANDARD BATTER PROFILES AND STABILISATION DETAILS ALL ROAD TYPES EXCEPT URBAN ACCESS PLACE/STREET AND COLLECTOR STREET		Drawing No. 8 10030			
Drawn	SA	Traced	CAD																						
Checked		Recomm.																							
Approved		F. Bk.																							
Revisions		Apd. Date		Date		Level Datum		Sheet 1 of 1 Sheets		A3															

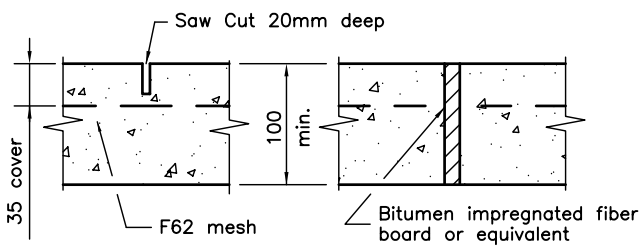


CONCRETE PATHWAYS – PART PLAN

PATHWAY CONSTRUCTION DETAIL FOR AREAS AFFECTED BY FLOODING

(Refer Note 5)

PATHWAY WIDTHS	
Pedestrian Path – Collector Streets and below	1200
Pedestrian Path – Trunk Collector Streets and above	1500
Shared Use Pathways (Minimum)	2000
Shared Use Pathways (Desirable)	2500
Commuter Cycleways	3000
Or as required by Council's Bikeways Plan	

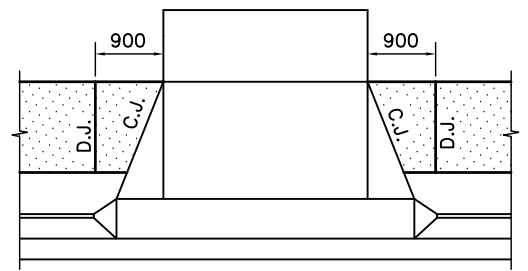


DUMMY JOINT

Shown D.J. on plans

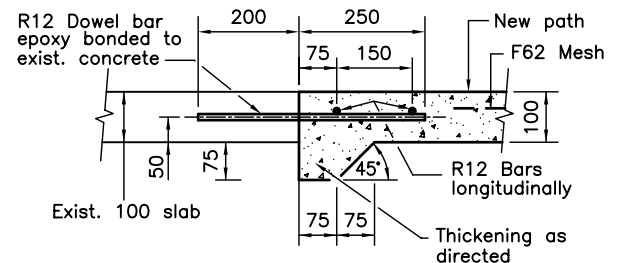
CONSTRUCTION JOINT

Shown C.J. on plans



JOINTS ARRANGEMENT AT DRIVEWAYS

(For driveways constructed at the time of pathways)



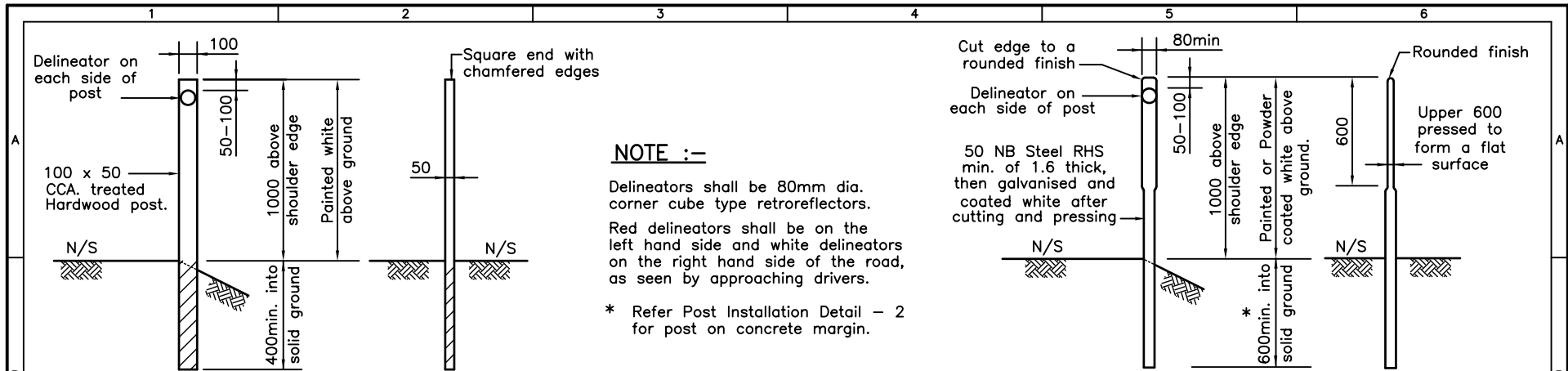
PATHWAY WIDENING

(Minimum widening 800mm)

NOTES

- Concrete to be Grade N25 in accordance with P.R.S.C. Standard Specification for Plain and Reinforced Concrete.
- Reinforcing mesh may be deleted on written instructions from Council's Engineer.
- Finish to slab to be wood float or broom.
- The Engineer may direct that this dimension be varied.
- 'Areas Affected by Flooding' will be defined by Council's Engineer.
- For appropriate treatment of grades greater than 1 in 8 (12.5 %), refer Australian Standard – A.S. 1657 – 1992.
- All dimensions are in millimetres.
- For pathways with down grade exceeding 5%, which connects with Roads of Collector Standard or greater, refer P.R.S.C. Standard Dwg. 8-60034
- Tactile indicator Types A,B & C as per AS 1428.4 – 1992. To be installed:
 - At signalised and other major crossings (Refer PRSC Std. Dwg. 8-10045)
 - In footpaths located in areas of heavy pedestrian traffic. (eg. shopping precincts)
 - As directed by Councils Engineer.

E D C Dummy Joint type Changed Title & Path names changed Redrawn with notes 7,8 & 9 added and path widths amended Redrawn also see 8-10043 Path width revised Original Issue		11/04 7/03 8/99	Scales NOT TO SCALE	Mayor C.E.O.	Director Assets & Infrastructure Drawn M.P.C. Traced ACAD Checked G.B. Recomm. Approved F. Bk.	PINE RIVERS SHIRE COUNCIL STANDARD CONCRETE PATHWAYS	File 400/26 Min. Page	Drawing No. 8 10036	PINE RIVERS A3
Revisions Apd. Date		Date	Date	Level Datum	Sheet 1 of 1 Sheets				



NOTE :-
 Delineators shall be 80mm dia. corner cube type retroreflectors.
 Red delineators shall be on the left hand side and white delineators on the right hand side of the road, as seen by approaching drivers.
 * Refer Post Installation Detail - 2 for post on concrete margin.

TIMBER

TUBULAR STEEL

TYPICAL ROAD EDGE GUIDE POSTS

SPACING OF GUIDE POSTS

- 1. ON STRAIGHTS - the spacing shall be 150m max. with the posts in pairs, and at bridges/culverts. On very long straights in flat terrain, the spacing may be increased to 300 metres, in pairs.
- 2. ON HORIZONTAL CURVES INCLUDING TRANSITIONS TO CIRCULAR CURVES - the spacing shall be in accordance with the following table:-

RADIUS OF CIRC. CURVE	POST SPACING ON CURVE	
	INSIDE	OUTSIDE
up to 124m	20 m	10 m
125 to 349m	40 m	20 m
350 to 799m	60 m	40 m
800 to 1999m	90 m	90 m
over 2000m	refer to straights	

Posts placed on the inside of the curve are to be opposite a post on the outside, where practicable.

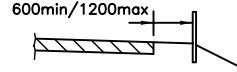
- 3. ON CREST VERTICAL CURVES - posts are to be placed in pairs for the full length of V.C. in accordance with the following table :-

V.C. RADIUS metres	<500	500-1000	1001-2000	2001-4500	>4500
POST SPACING	25m	50m	75m	100m	150m

- 4. IN AREAS SUBJECT TO FREQUENT FOGS - The spacing shall be reduced to 60m max. in pairs.
- 5. AT BRIDGES AND CULVERTS - (a). Where the structure is up to 5m in length (measured along the road centreline), 2 posts are to be placed - one at each left hand approach end of the structure. (b). where the structure is over 5m in length (measured along the road centreline), 4 posts are to be placed - one at each corner of the structure.
- 6. AT FLOODWAYS ON STRAIGHTS - guide posts on floodways shall be tubular steel, installed as shown. Guide post spacing shall be 25m with the posts in pairs.
- 7. GUARDRAIL - Where guidepost locations fall adjacent to guardrail installation, the delineators are to be attached to the first guardrail post approached, and then to guardrail posts at the required spacing using guardrail delineator brackets.
- 8. OTHER - In special circumstances where positions of guide posts are detailed on working plans, such positions are to be adopted in lieu of those derived from this drawing.

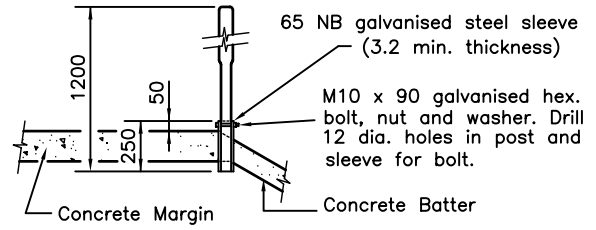
POST INSTALLATION DETAILS

- 1. Formation generally :- The inside face of the post is to be set in line with the shoulder edge. The shoulder widths are indicated on the applicable Standard Road Cross Sections.

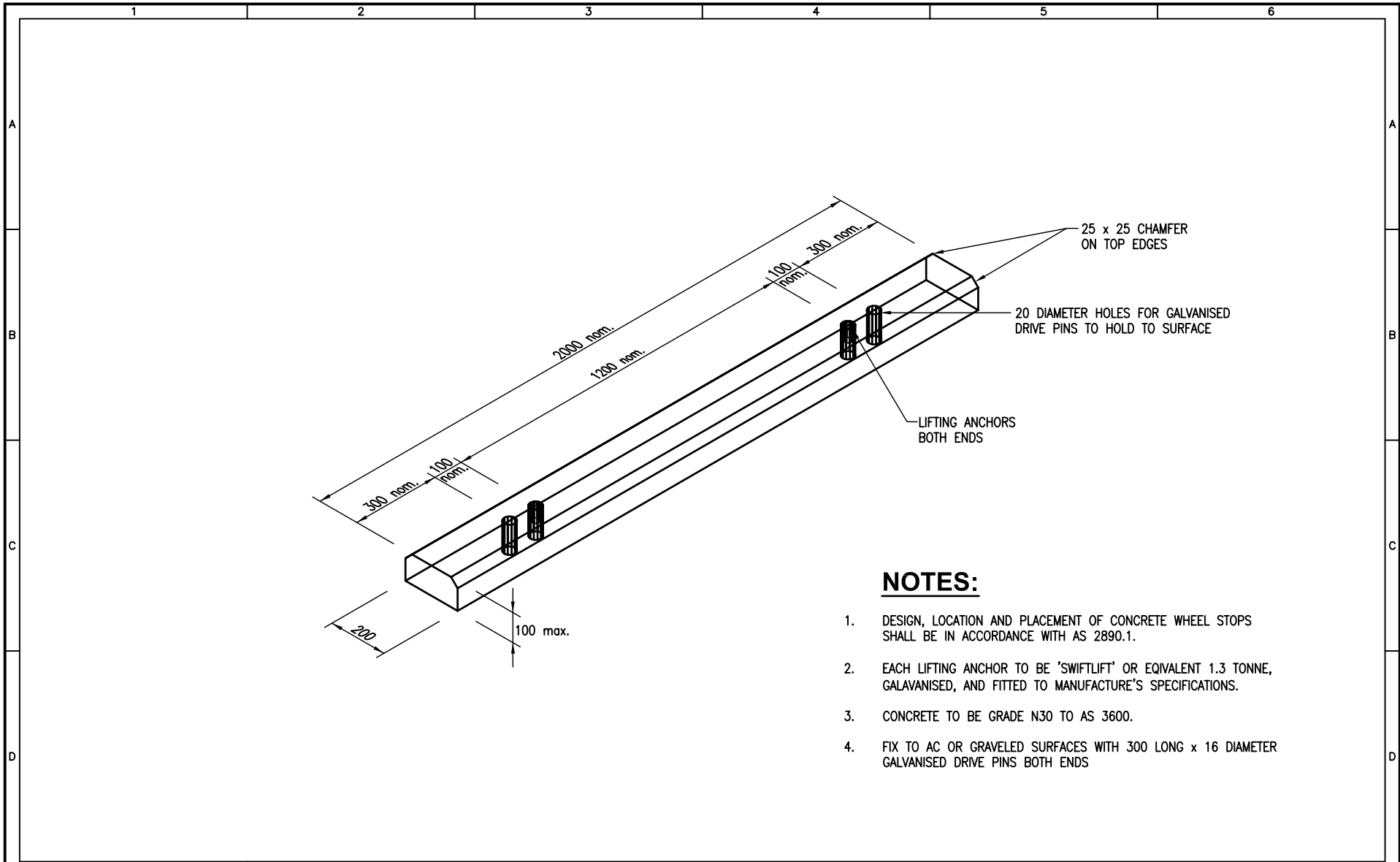


For long lengths of low embankment, the inside face of posts is generally to be 600 beyond the shoulder edge, but no more than 150 beyond the end of an adjacent culvert. Post lengths are to be increased when placed beyond the shoulder edge to allow for batter slope. (eg for a batter slope of 1 in 4, the post will need to be increased by 150mm).

- 2. Concrete margins :-




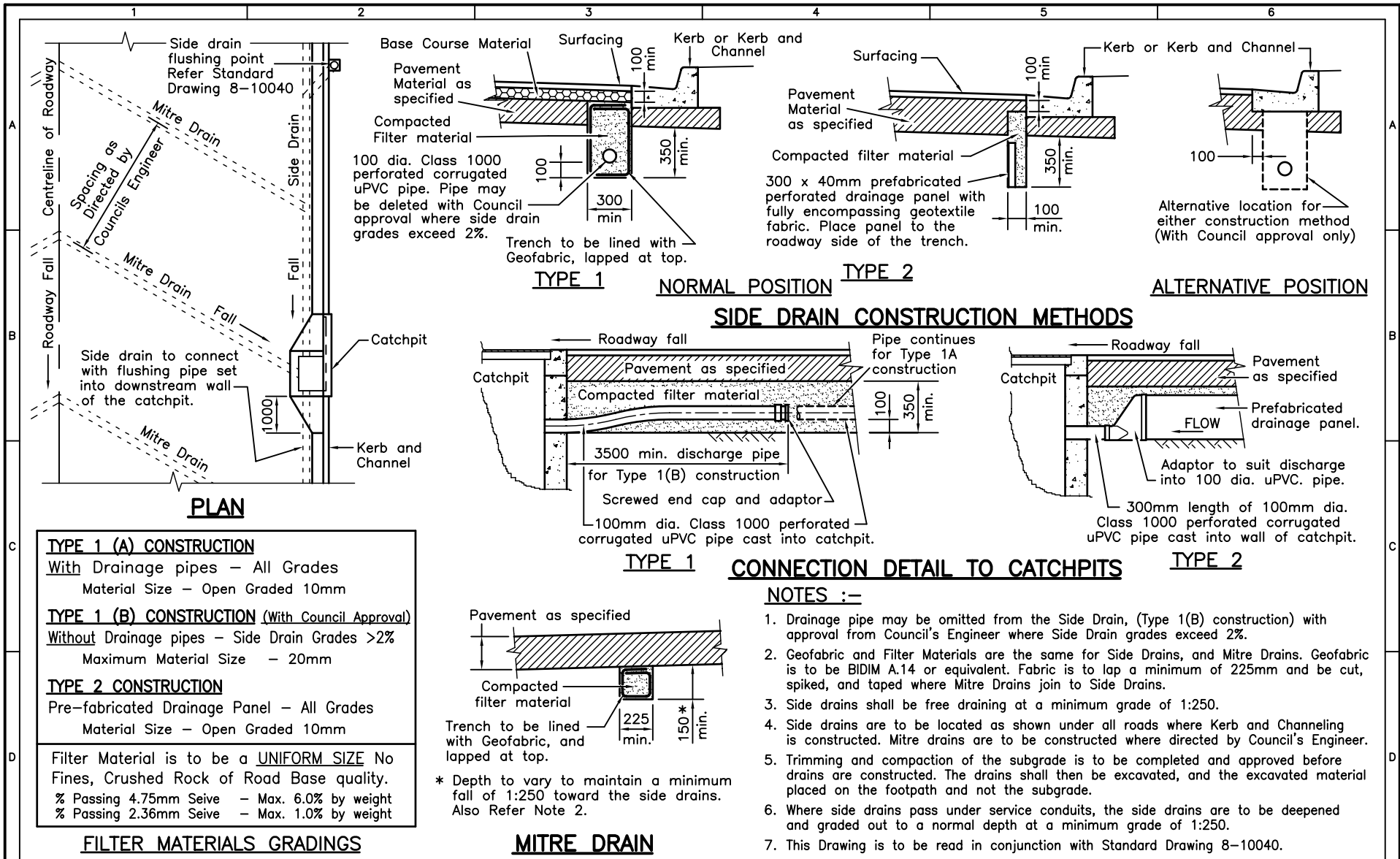
Scales		PINE RIVERS SHIRE COUNCIL		File	Min. Page
NOT TO SCALE		Director Works & Services		400/26	96/7672
Based on MRD Drawing 1357		ROAD EDGE GUIDE POSTS		Drawing No.	
Date		POST AND INSTALLATION DETAILS		8 10037	
Disc		Sheet 1 of 1 Sheets		A3	



NOTES:

1. DESIGN, LOCATION AND PLACEMENT OF CONCRETE WHEEL STOPS SHALL BE IN ACCORDANCE WITH AS 2890.1.
2. EACH LIFTING ANCHOR TO BE 'SWIFTLIFT' OR EQUIVALENT 1.3 TONNE, GALAVANISED, AND FITTED TO MANUFACTURE'S SPECIFICATIONS.
3. CONCRETE TO BE GRADE N30 TO AS 3600.
4. FIX TO AC OR GRAVELED SURFACES WITH 300 LONG x 16 DIAMETER GALVANISED DRIVE PINS BOTH ENDS

Scales		N.T.S.		Director Assets & Development		PINE RIVERS SHIRE COUNCIL		File 400/26	Min. Page 03/2363	 PINE RIVERS	
Original Issue		7/03		Mayor		CONCRETE WHEEL STOPS		Drawing No.			A3
Revisions		Apd. Date		C.E.O				8 10038			
Disc				Date				Sheet 1 of 1 Sheets			

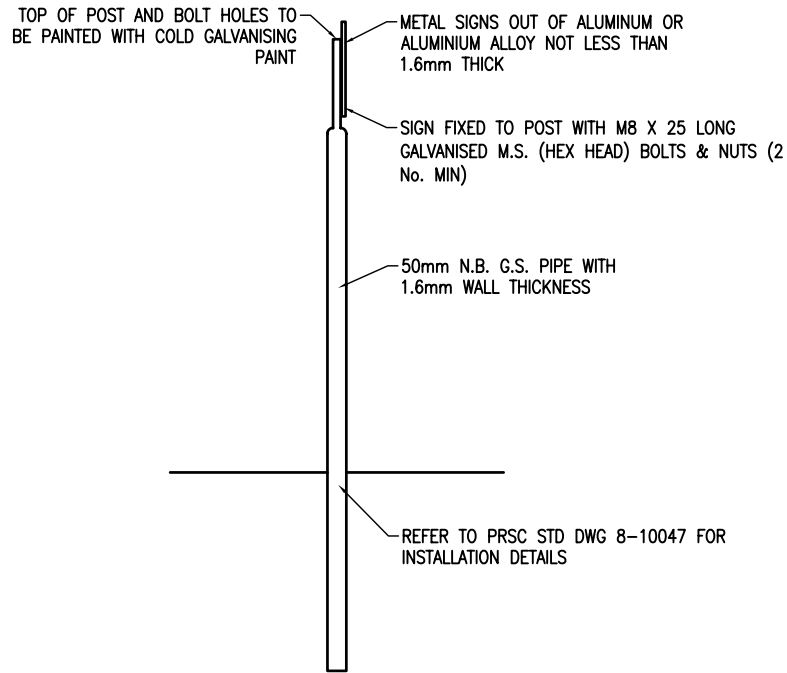


TYPE 1 (A) CONSTRUCTION	
With Drainage pipes – All Grades	
Material Size – Open Graded 10mm	
TYPE 1 (B) CONSTRUCTION (With Council Approval)	
Without Drainage pipes – Side Drain Grades >2%	
Maximum Material Size – 20mm	
TYPE 2 CONSTRUCTION	
Pre-fabricated Drainage Panel – All Grades	
Material Size – Open Graded 10mm	
Filter Material is to be a <u>UNIFORM SIZE</u> No Fines, Crushed Rock of Road Base quality.	
% Passing 4.75mm Sieve	– Max. 6.0% by weight
% Passing 2.36mm Sieve	– Max. 1.0% by weight

FILTER MATERIALS GRADINGS

- NOTES :-**
1. Drainage pipe may be omitted from the Side Drain, (Type 1(B) construction) with approval from Council's Engineer where Side Drain grades exceed 2%.
 2. Geofabric and Filter Materials are the same for Side Drains, and Mitre Drains. Geofabric is to be BIDIM A.14 or equivalent. Fabric is to lap a minimum of 225mm and be cut, spiked, and taped where Mitre Drains join to Side Drains.
 3. Side drains shall be free draining at a minimum grade of 1:250.
 4. Side drains are to be located as shown under all roads where Kerb and Channeling is constructed. Mitre drains are to be constructed where directed by Council's Engineer.
 5. Trimming and compaction of the subgrade is to be completed and approved before drains are constructed. The drains shall then be excavated, and the excavated material placed on the footpath and not the subgrade.
 6. Where side drains pass under service conduits, the side drains are to be deepened and graded out to a normal depth at a minimum grade of 1:250.
 7. This Drawing is to be read in conjunction with Standard Drawing 8-10040.

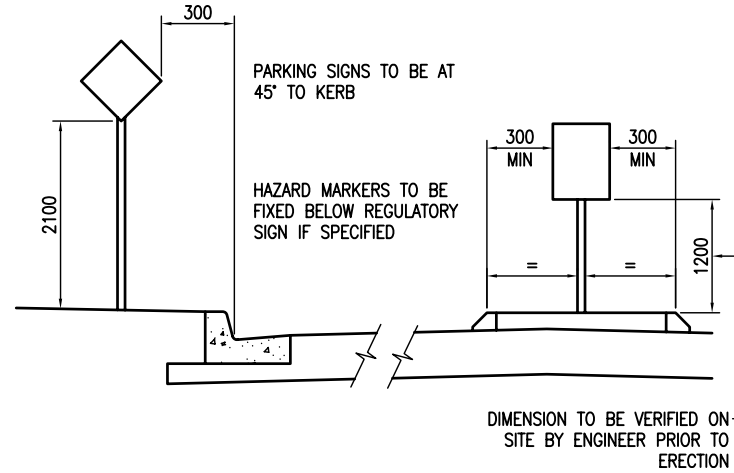
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NOT TO SCALE		Director Assets & Infrastructure		400/26	
Revisions		PINE RIVERS SHIRE COUNCIL		Drawing No.	
Apd. Date		SIDE DRAINS AND MITRE DRAINS		8 10039	
Disc		Date		Sheet 1 of 1 Sheets	
		Level Datum		A3	



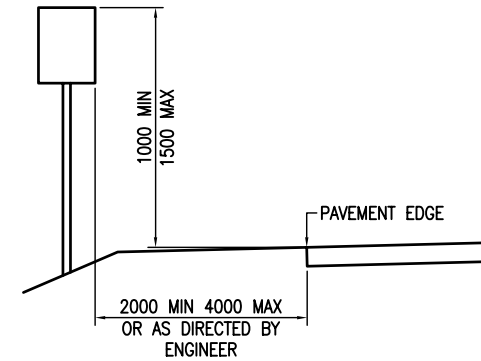
POST DETAIL

NOTES:

1. ALL SIGNS ARE TO BE REFLECTORISED UNLESS SPECIFIED OTHERWISE.
2. SIZE & SIGN TYPE HAS BEEN SHOWN ON THE DRAWINGS. TWO (2) PIPE STANDARDS ARE TO BE PROVIDED AT LARGE SIGNS.
3. ALL SIGNS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO ERECTION.
4. ALL SIGNS ARE TO BE IN ACCORDANCE WITH THE MUNUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

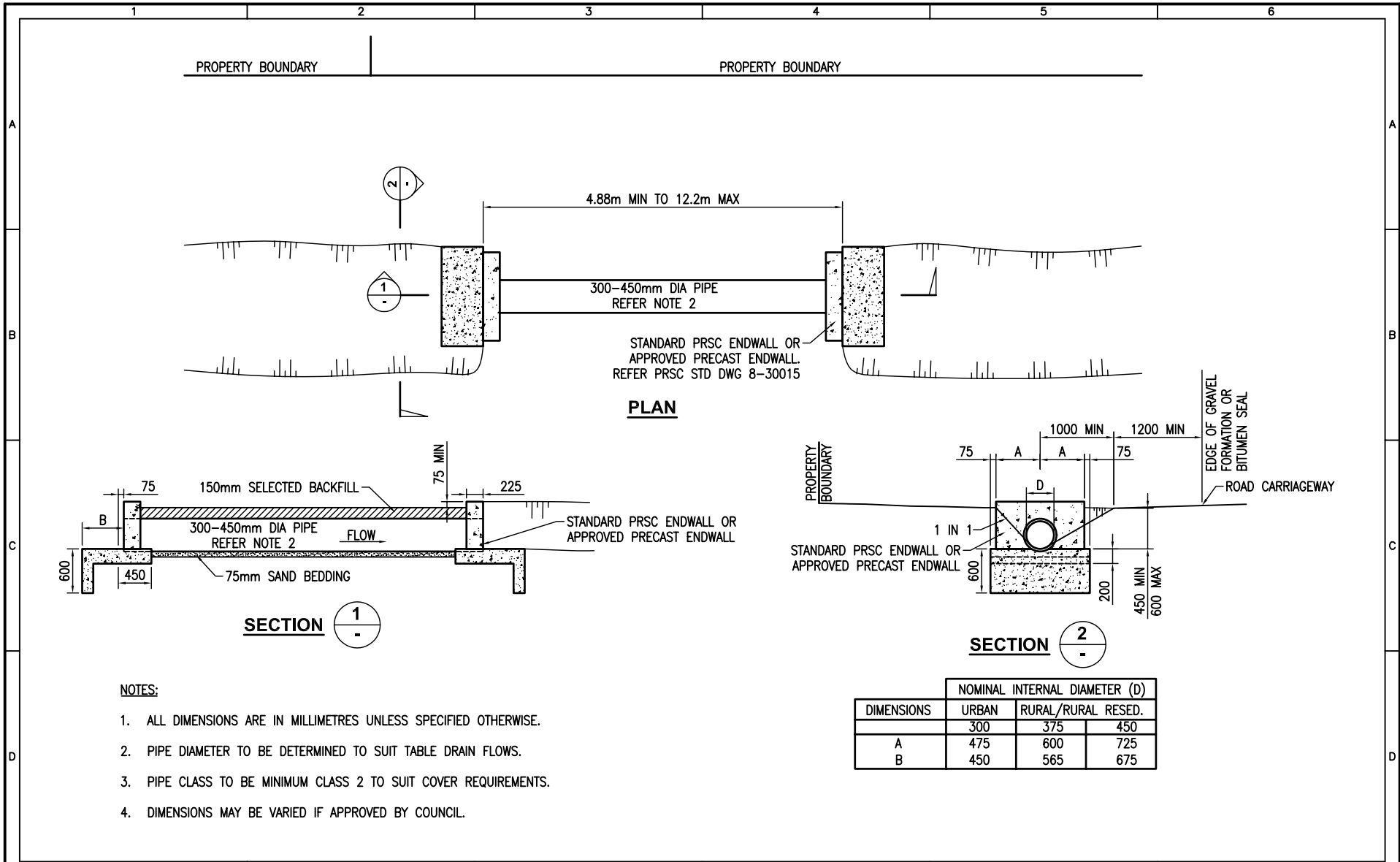


LOCATION - STREETS



LOCATION - RURAL ROADS

Scales		N.T.S.		Mayor		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File 400/26	Min. Page	 A3												
Original Issue		11/04		Chief Executive Officer		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Drawn</td><td>PWR</td><td>Traced</td><td>PWR</td></tr> <tr> <td>Checked</td><td></td><td>Recomm.</td><td></td></tr> <tr> <td>Approved</td><td></td><td>F. Bk.</td><td></td></tr> </table>		Drawn	PWR	Traced	PWR		Checked		Recomm.		Approved		F. Bk.		Drawing No.			
Drawn	PWR	Traced	PWR																					
Checked		Recomm.																						
Approved		F. Bk.																						
Revisions		Apd. Date		Date		Level Datum		TRAFFIC SIGNS LOCATION & POST DETAILS		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: 24px;">8</td> <td style="text-align: center; font-size: 24px;">10041</td> </tr> </table>	8	10041	Sheet 1 of 1 Sheets											
8	10041																							



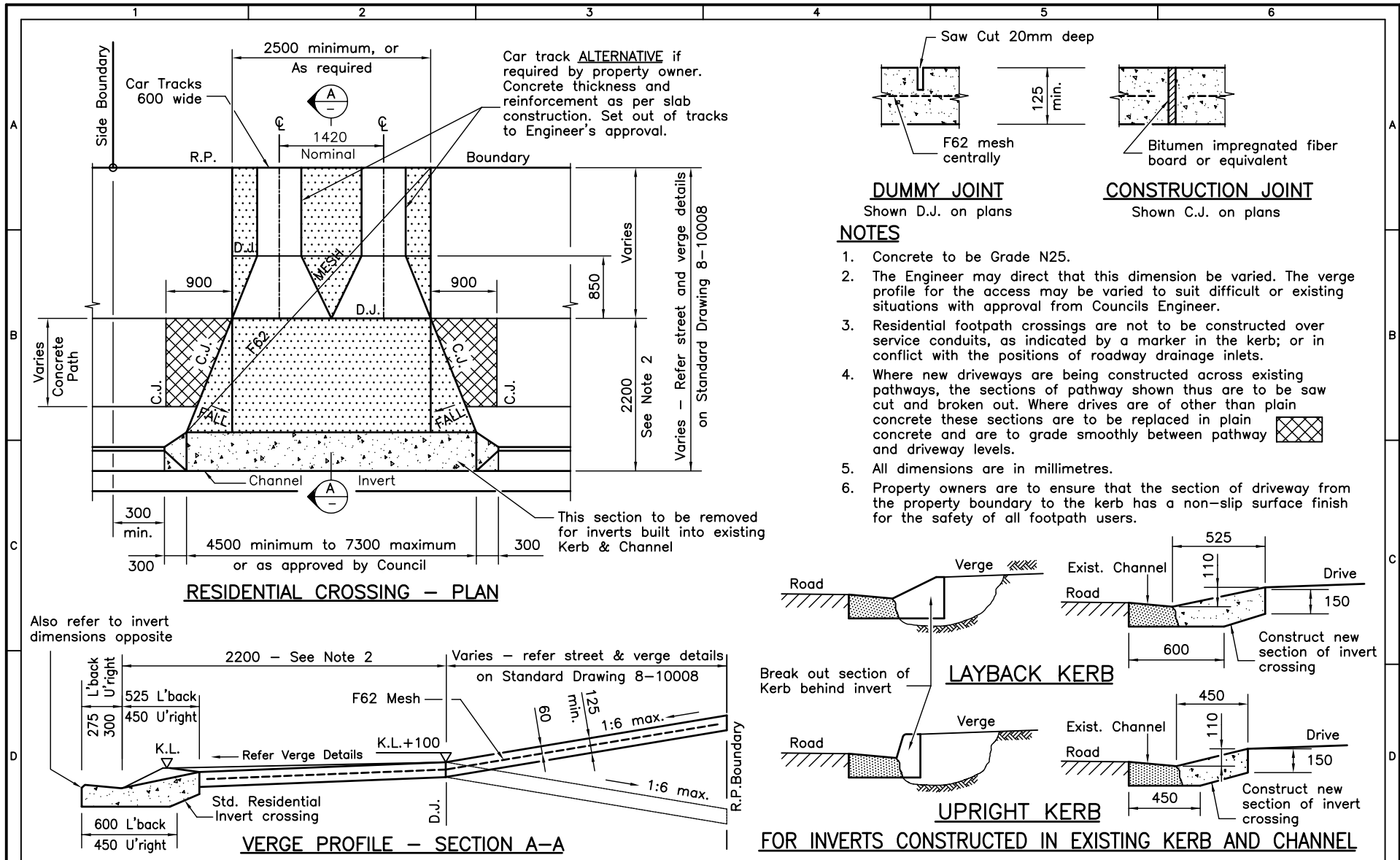
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
2. PIPE DIAMETER TO BE DETERMINED TO SUIT TABLE DRAIN FLOWS.
3. PIPE CLASS TO BE MINIMUM CLASS 2 TO SUIT COVER REQUIREMENTS.
4. DIMENSIONS MAY BE VARIED IF APPROVED BY COUNCIL.

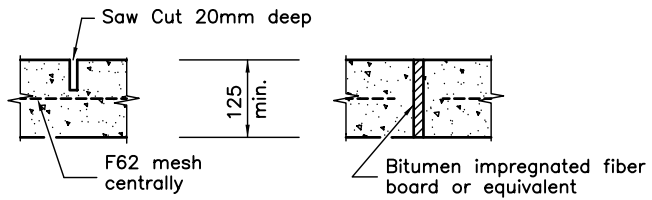
DIMENSIONS	NOMINAL INTERNAL DIAMETER (D)		
	URBAN	RURAL/RURAL RESED.	
A	300	375	450
B	475	600	725
	450	565	675

	Scales	Mayor	PINE RIVERS SHIRE COUNCIL		File 400/26	Min. Page
	N.T.S.	Chief Executive Officer	STANDARD ACCESS PIPE CROSSING		Drawing No.	
Original Issue	11/04	Date	Director Assets & Infrastructure	8 10042		
Revisions	Apd.	Date	Date	Sheet 1 of 1 Sheets		
			Level Datum	A3		





Car track **ALTERNATIVE** if required by property owner. Concrete thickness and reinforcement as per slab construction. Set out of tracks to Engineer's approval.



DUMMY JOINT

Shown D.J. on plans

CONSTRUCTION JOINT

Shown C.J. on plans

NOTES

1. Concrete to be Grade N25.
2. The Engineer may direct that this dimension be varied. The verge profile for the access may be varied to suit difficult or existing situations with approval from Councils Engineer.
3. Residential footpath crossings are not to be constructed over service conduits, as indicated by a marker in the kerb; or in conflict with the positions of roadway drainage inlets.
4. Where new driveways are being constructed across existing pathways, the sections of pathway shown thus are to be saw cut and broken out. Where drives are of other than plain concrete these sections are to be replaced in plain concrete and are to grade smoothly between pathway and driveway levels.
5. All dimensions are in millimetres.
6. Property owners are to ensure that the section of driveway from the property boundary to the kerb has a non-slip surface finish for the safety of all footpath users.

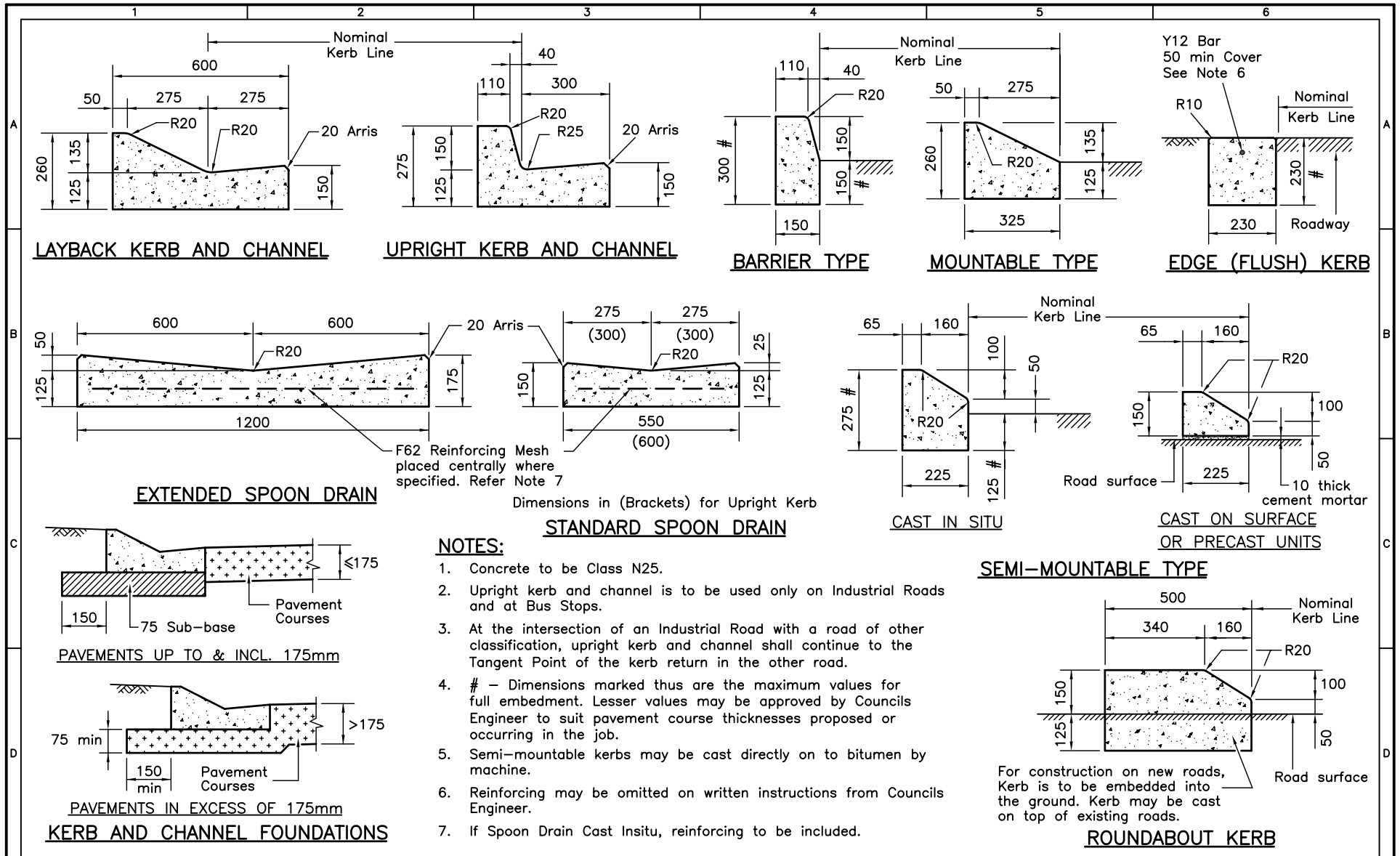
C	Joint Types Changed	11/04
B	Detail added to invert and notes revised.	7/03
A	Note 6 added	8/99
	Original Issue	9/96
Revisions		Apd. Date
Disc		

Scales		Director Assets & Infrastructure	
NOT TO SCALE		Drawn	T.T. Traced ACAD
C.E.O.		Checked	S.W. Recomm. F.J.K.
Date		Approv.	F. Bk.
		Level Datum	

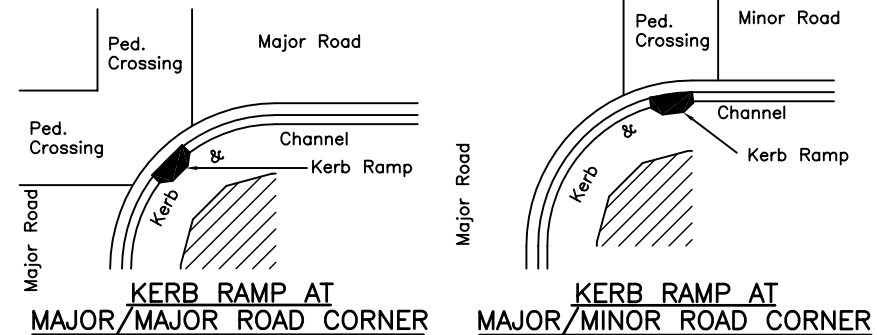
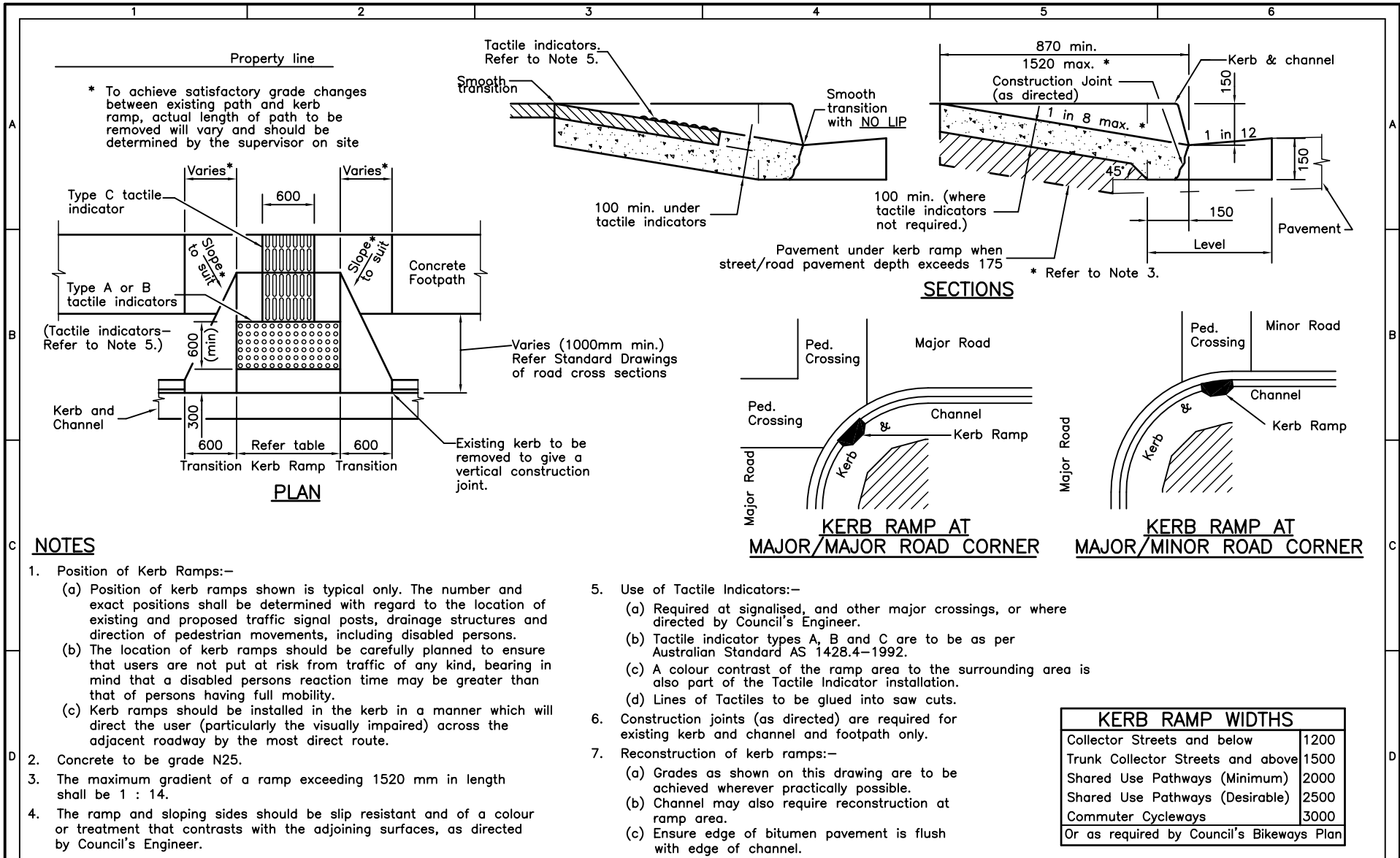
PINE RIVERS SHIRE COUNCIL

RESIDENTIAL ACCESS AND INVERT CROSSINGS

File	Min. Page	
400/26		
Drawing No.		
8 10043		
Sheet 1 of 1 Sheets		A3



1		2		3		4		5		6	
A		Scales		Mayor		Director Assets & Infrastructure		PINE RIVERS SHIRE COUNCIL		File	Min. Page
Reinforcing Included & Strength Increased		11/04		C.E.O.		Drawn T.T. Traced ACAD		STANDARD KERB AND CHANNEL, KERBS, AND SPOON DRAINS		400/26	
Original Issue		9/96		Date		Checked S.W. Recomm. F.J.K.		Drawing No.		8 10044	
Revisions		Apd. Date				Approved F. Bk.		Sheet 1 of 1 Sheets		A3	
Disc						Level Datum					



NOTES

- Position of Kerb Ramps:-
 - Position of kerb ramps shown is typical only. The number and exact positions shall be determined with regard to the location of existing and proposed traffic signal posts, drainage structures and direction of pedestrian movements, including disabled persons.
 - The location of kerb ramps should be carefully planned to ensure that users are not put at risk from traffic of any kind, bearing in mind that a disabled persons reaction time may be greater than that of persons having full mobility.
 - Kerb ramps should be installed in the kerb in a manner which will direct the user (particularly the visually impaired) across the adjacent roadway by the most direct route.
- Concrete to be grade N25.
- The maximum gradient of a ramp exceeding 1520 mm in length shall be 1 : 14.
- The ramp and sloping sides should be slip resistant and of a colour or treatment that contrasts with the adjoining surfaces, as directed by Council's Engineer.
- Use of Tactile Indicators:-
 - Required at signalised, and other major crossings, or where directed by Council's Engineer.
 - Tactile indicator types A, B and C are to be as per Australian Standard AS 1428.4-1992.
 - A colour contrast of the ramp area to the surrounding area is also part of the Tactile Indicator installation.
 - Lines of Tactiles to be glued into saw cuts.
- Construction joints (as directed) are required for existing kerb and channel and footpath only.
- Reconstruction of kerb ramps:-
 - Grades as shown on this drawing are to be achieved wherever practically possible.
 - Channel may also require reconstruction at ramp area.
 - Ensure edge of bitumen pavement is flush with edge of channel.

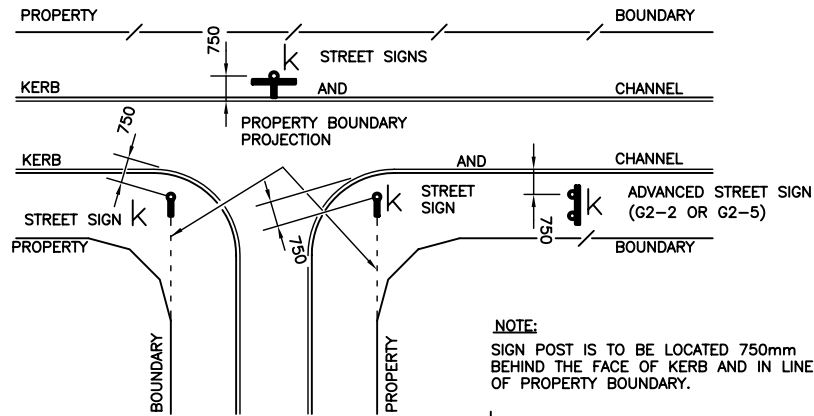
KERB RAMP WIDTHS	
Collector Streets and below	1200
Trunk Collector Streets and above	1500
Shared Use Pathways (Minimum)	2000
Shared Use Pathways (Desirable)	2500
Commuter Cycleways	3000
Or as required by Council's Bikeways Plan	

1		2		3		4		6	
Scales		Scales		Scales		Scales		Scales	
Note 5 Changed Values Changed		11/04		Mayor		Director Assets & Infrastructure		File 400/26	
Redrawn with extra notes added with kerb ramp widths amended Original Issue		8/99		Chief Executive Officer		Drawn M.P.C. Traced ACAD		Drawing No.	
Revisions		Date		Date		Checked G.B. Recomm.		8 10045	
Apd.		Date		Date		Approved F. Bk.		Sheet 1 of 1 Sheets	
						Level Datum		A3	

PINE RIVERS SHIRE COUNCIL

STANDARD KERB RAMP

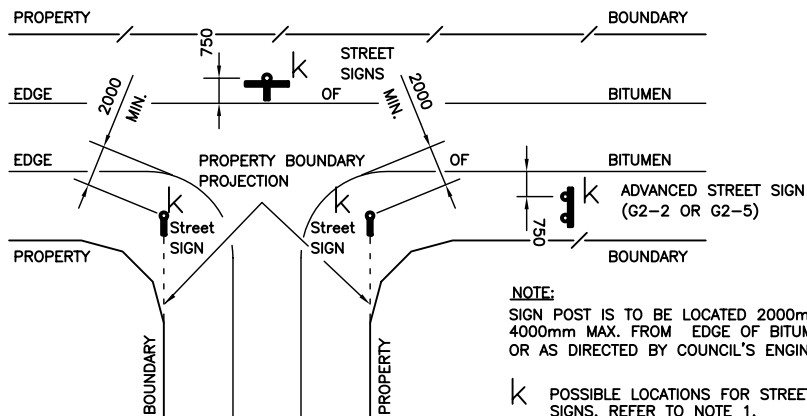




**RESIDENTIAL AREAS
SIGN LOCATIONS
DETAIL**

NOTE:
SIGN POST IS TO BE LOCATED 750mm BEHIND THE FACE OF KERB AND IN LINE OF PROPERTY BOUNDARY.

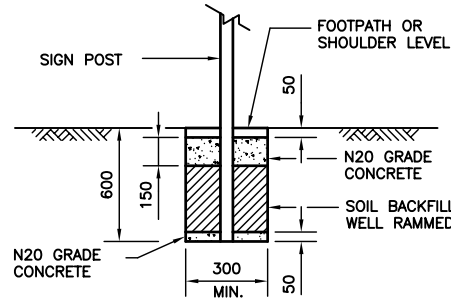
K POSSIBLE LOCATIONS FOR STREET SIGNS. REFER TO NOTE 1.



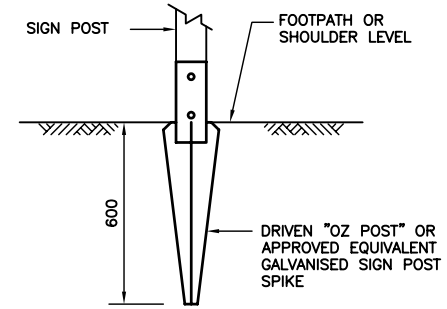
**RURAL AREAS
SIGN LOCATIONS
DETAIL**

NOTE:
SIGN POST IS TO BE LOCATED 2000mm MIN. 4000mm MAX. FROM EDGE OF BITUMEN, OR AS DIRECTED BY COUNCIL'S ENGINEER.

K POSSIBLE LOCATIONS FOR STREET SIGNS. REFER TO NOTE 1.

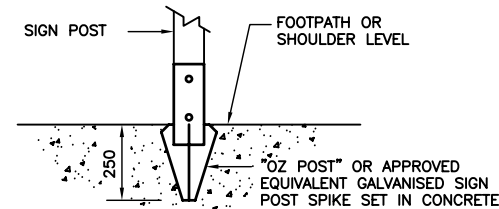


TYPE A



TYPE B

INSTALLATION IN GRASSED AREAS

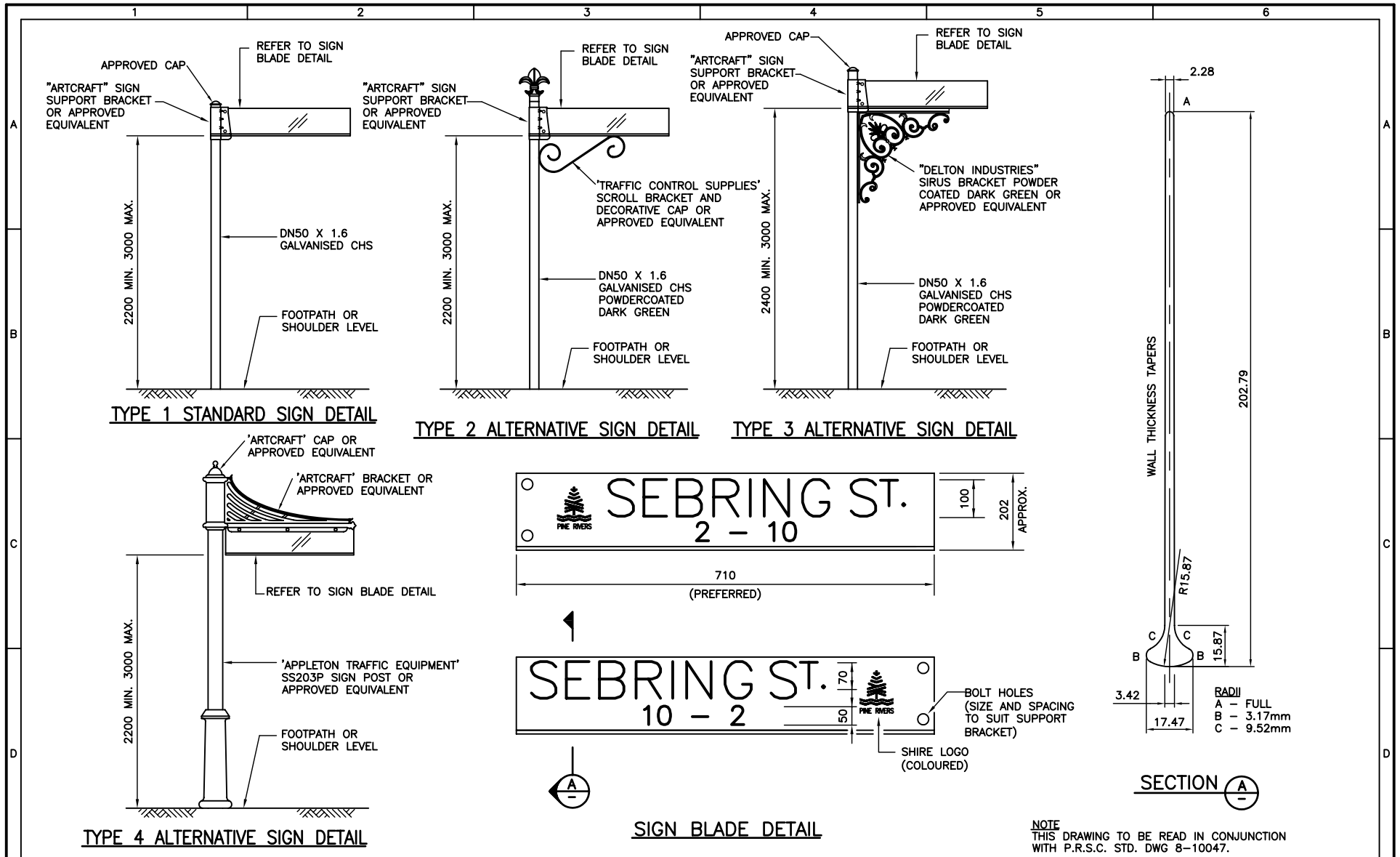


INSTALLATION IN CONCRETE AREAS & MEDIANS

NOTES:

- SIGN LOCATIONS:**
STREET SIGNS ARE TO BE PROVIDED AT ALL INTERSECTIONS CLEARLY INDICATING ALL STREETS AND ROADS AS DESCRIBED IN THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" FOR STREET NAME SIGNS.
- STANDARD STREET SIGNS:**
STANDARD STREET SIGNS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE TYPE 1 STANDARD SIGN DETAIL ON P.R.S.C. STD. DWG. 8-10048.
- ALTERNATIVE STREET SIGNS:**
 - ALTERNATIVE STREET SIGNS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE TYPE 2, 3 AND 4 SIGN DETAILS ON P.R.S.C. STD. DWG. 8-10048.
 - ALTERNATIVE STREET SIGNS ARE TO BE SELECTED IN ACCORDANCE WITH PINE RIVERS SHIRE COUNCIL POLICY.
- SIGN BLADES:**
 - NUMBERING TO BE ODD OR EVEN, DEPENDANT UPON THE SIDE OF THE ROAD THE SIGN IS INSTALLED.
 - LETTERING AND COLOUR OPTIONS:
 - BLACK SERIES "D" OR "C" LETTERING TO AS1744 ON WHITE BACKGROUND.
 - WHITE "COOPER MD BT" LETTERING TO AS1743 ON STANDARD GREEN BACKGROUND.
 - ALL SIGN BLADES ARE TO BE MANUFACTURED FROM "ANTI-VANDAL" EXTRUDED ALUMINIUM AS PER SIGN BLADE DETAIL ON P.R.S.C. STD. DWG. 8-10048.
- ALL SIGNS ARE TO BE APPROVED BY THE COUNCIL'S ENGINEER PRIOR TO CONSTRUCTION.

B Medians incl. in detail A Installation details revised, sign details moved to 8-10048 Original Issue Revisions		10/04 07/03 11/95 Apd. Date	Not to Scale Dimensions in mm.	Mayor Chief Executive Officer Date	Director Assets & Infrastructure Drawn S.W. Traced ACAD Checked Recomm. Approved F. Bk. Level Datum	PINE RIVERS SHIRE COUNCIL	File 400/26	Min. Page	
STREET SIGNS LOCATION AND INSTALLATION DETAILS						Drawing No. 8 10047	Sheet 1 of 2 Sheets	A3	



Original Issue		07/03		Director Assets & Development		PINE RIVERS SHIRE COUNCIL		File	Min. Page	
Revisions		Apd. Date		Level Datum		STREET SIGNS SIGN AND BLADE DETAILS		400/26	97/5849	
								Drawing No.		
								8	10048	A3
								Sheet 2 of 2 Sheets		

NOTES

- WHERE BATTERS RISE ABOVE ROAD LEVEL CATCH BANKS ARE TO BE INSTALLED AT THE VERY TOP OF THE BATTER, (REFER P.R.S.C. STD. DWG. 8-10050).
- WHERE SCOUR IS PRESENT ON BATTER, AN ALTERNATIVE EROSION PREVENTION METHOD IS TO BE EMPLOYED AS DIRECTED ON SITE BY COUNCIL'S ENGINEER.
- IN AREAS TO BE TURFED, THE EXISTING SURFACE IS TO BE SCARIFIED PRIOR TO THE PLACEMENT OF TURF.
- TURF TO BE PLACED ON 50mm DEPTH OF TOPSOIL, FERTILIZED AND WATERED IN.
- TEMPORARY SILT FENCES ARE TO BE ERECTED AT SWALE DRAIN OUTLETS PRIOR TO COMMENCEMENT OF WORK.
- WHERE LONGITUDINAL GRADES OF SWALE DRAINS ARE IN EXCESS OF 2%, DUMPED ROCK PROTECTION IS TO BE INSTALLED AT DRAIN OUTLETS.
- WHERE LOOSE ROCK IS TO BE EMPLOYED FOR THE LINING OF SWALE DRAINS, ROCK SHOULD BE 75mm TO 100mm SIZE, RELATIVELY FREE OF SEDIMENTS AND PREFERABLY WASHED PRIOR TO PLACEMENT. A ROUNDED RIVER ROCK IS PREFERRED TO CRUSHED ROCK.
- 1200mm CONCRETE INVERT TO BE USED WHERE GRADE IS IN EXCESS OF 10% OR WHERE REQUIRED FOR HYDRAULIC CAPACITY.
- FINAL PAVEMENT DEPTH TO BE DETERMINED FROM SOIL TESTS.
- PIPE CROSSINGS OR CONCRETE INVERTS ARE TO BE PROVIDED AT DRIVEWAYS.

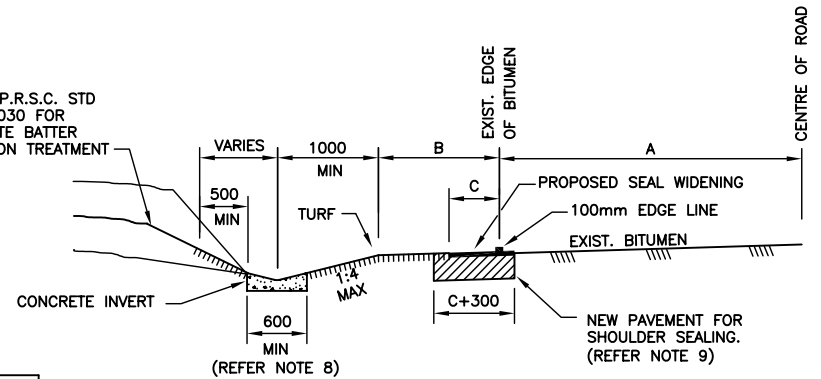
**TABLE 1
(SWALE DRAIN TREATMENT SELECTION)**

SWALE DRAIN GRADE	TREATMENT
0.4% - 2%	CONCRETE LINED
2% - 5%	GRASS LINED
5% - 10%	ROCK LINED
10% OR GREATER	CONCRETE LINED

**TABLE 2
(TYPICAL DIMENSIONS)**

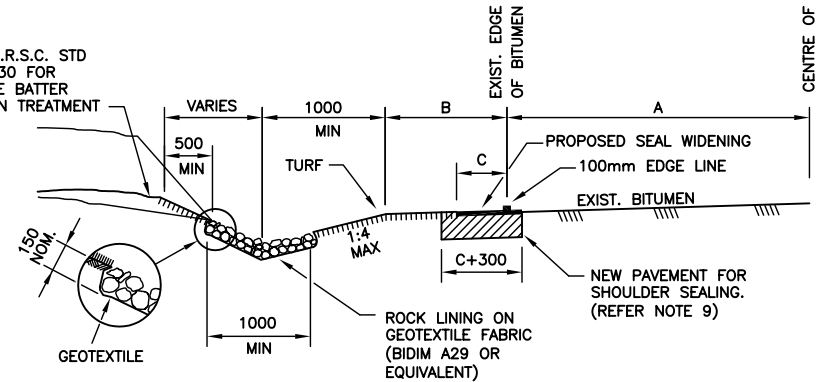
ROAD CLASSIFICATION	DIMENSIONS (MIN.)		
	A	B	C
ACCESS	3000	1200	500
COLLECTOR	3500	1500	1000
> COLLECTOR	3500	2000	1500

REFER TO P.R.S.C. STD DWG 8-10030 FOR APPROPRIATE BATTER STABILIZATION TREATMENT

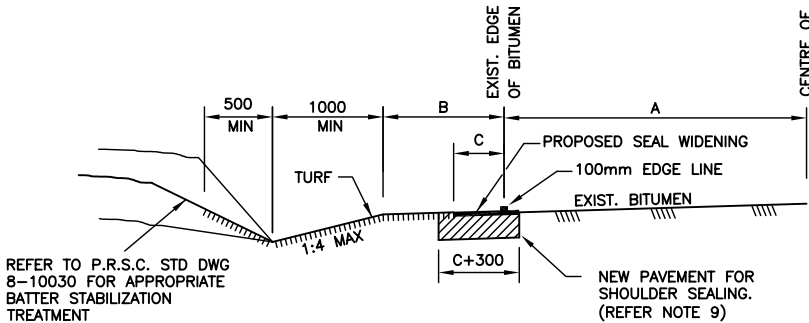


CONCRETE LINED SWALE DRAIN

REFER TO P.R.S.C. STD DWG 8-10030 FOR APPROPRIATE BATTER STABILIZATION TREATMENT



ROCK LINED SWALE DRAIN

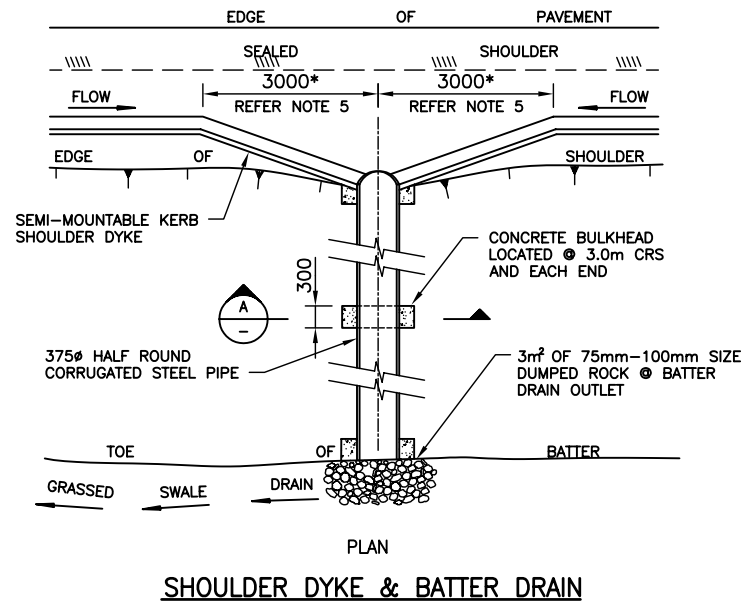
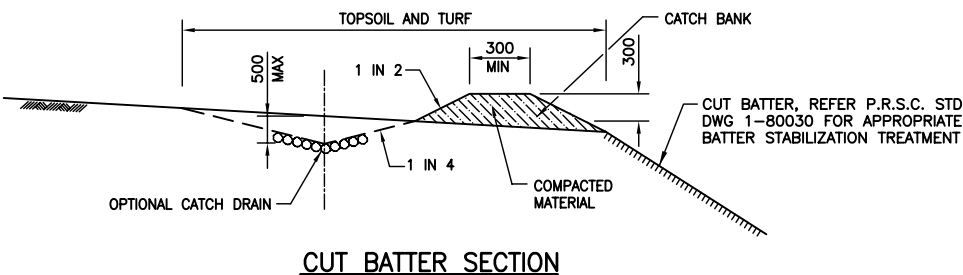
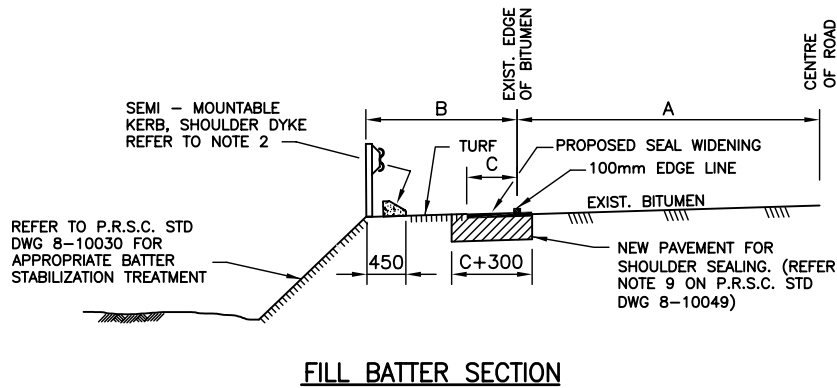
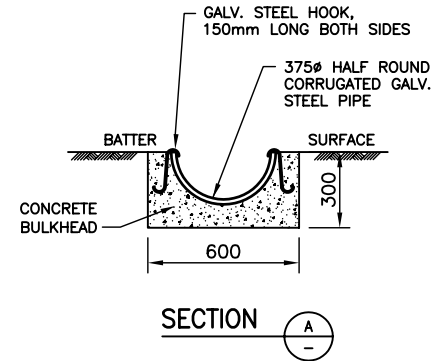


GRASS LINED SWALE DRAIN

<p>Revisions</p> <p>B Turf moved to below surface line 11/04</p> <p>A Batter Note Original Issue 7/03 8/96</p>		<p>Apd. Date</p>	<p>Scales</p> <p>NOT TO SCALE Dimensions in mm.</p>	<p>Mayor</p> <p>Chief Executive Officer</p> <p>Date</p>	<p>Director Assets & Infrastructure</p> <p>Drawn MPC Traced CAD</p> <p>Checked Recomm.</p> <p>Approved F. Bk.</p> <p>Level Datum</p>	<p>PINE RIVERS SHIRE COUNCIL</p> <p>ROADSIDE DRAINAGE UPGRADING OF EXISTING ROADS SWALE DRAINS</p>	<p>File 400/26</p> <p>Min. Page</p> <p>Drawing No.</p> <p>8 10049</p>	<p>Sheet 1 of 2 Sheets</p> <p>A3</p>
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NOTES

1. BATTER DRAINS ARE TO BE POSITIONED ADJACENT TO CULVERTS AND WHERE SURFACE FLOWS ON SHOULDER ENCROACH ON TO THE DRIVING LANE.
2. SHOULDER DYKE MAY BE OMITTED ON SUPERELEVATED CURVES WHERE ROADWAY CROSSFALL SLOPES AWAY FROM SHOULDER OR WHERE FILL BATTER IS LESS THAN 1.0m IN HEIGHT.
3. CATCH DRAINS ARE TO BE TREATED AS FOR SWALE DRAINS—REFER DWG. 8-10049.
4. FOR DIMENSIONS A,B & C REFER TO TABLE 2 ON DWG. 8-10049.
5. THIS DIMENSION TO BE REDUCED TO 1000 WHEN THERE IS NO FLOW FROM THIS DIRECTION.
6. FINAL POSITION OF BATTER DRAINS AND EXTENT OF SHOULDER DYKE TO BE DETERMINED BY COUNCIL'S ENGINEER.



B		Turf moved to below surface line	11/04	Scales	Mayor	Director Assets & Infrastructure	PINE RIVERS SHIRE COUNCIL		File	Min. Page	
A		Batter Drain Detail Removed Original Issue	7/03 8/96						400/26	Drawing No.	
Revisions		Apd.	Date	NOT TO SCALE Dimensions in mm.	Chief Executive Officer	Drawn M.P.C. Traced M.P.C. Checked Recomm. Approved F. Bk.	ROADSIDE DRAINAGE UPGRADING OF EXISTING ROADS SHOULDER DYKES AND BATTER DRAINS				
					Date	Level Datum					