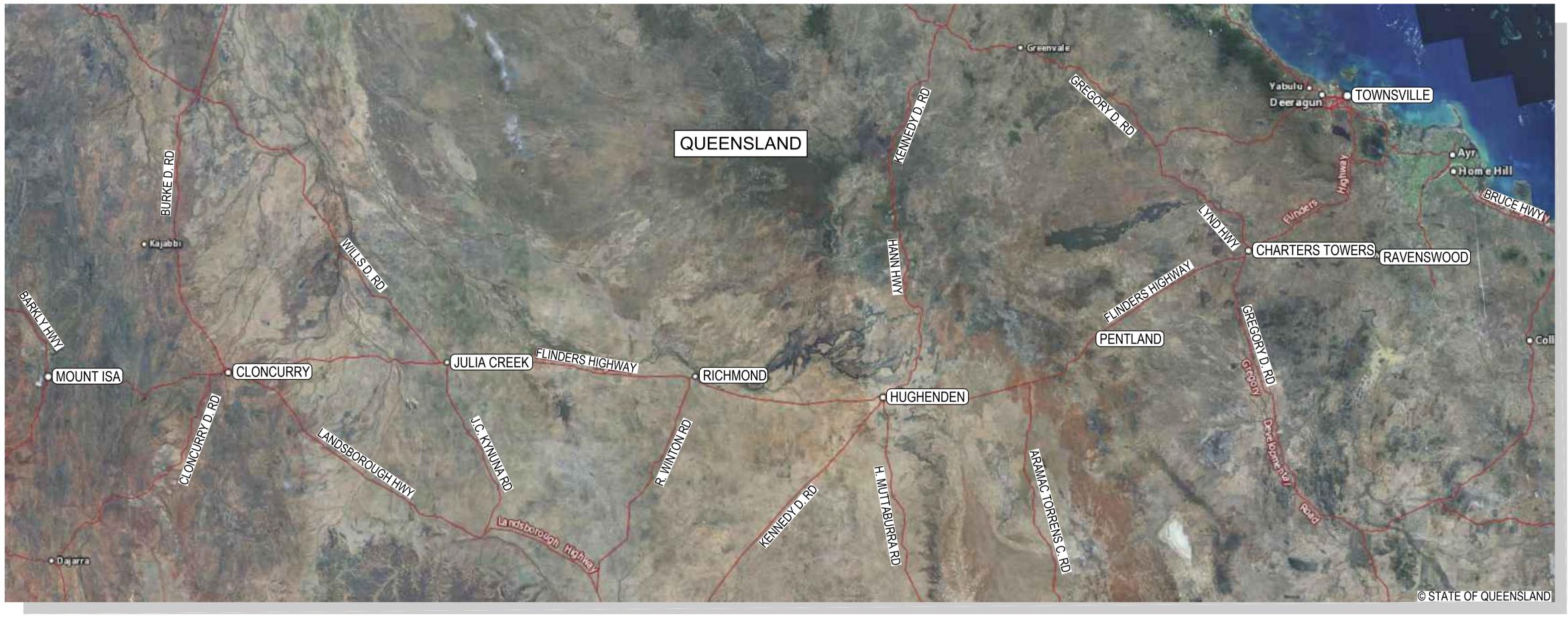
CPB UGL JOINT VENTURE **COPPERSTRING 2032 - ROAD UPGRADES** PROJECT WIDE PACKAGE



REFERENCE FILES ATTACHED:

DRA	WING REVISION HISTORY						
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						DATE	

LOCALITY PLAN NOT TO SCALE





P&S FORM DRG-A1 REV 29

COVER SHEET AND LOCALITY PLAN CLIENT No. CU2 DATUMS GDA20 - MGA54/55 RAWING No. CU2-PW00-DRG-PAS-200-0001 Α I. 5, 23 - 12:04:20 Name: CU2-PW00-DRG-PAS-200-0001.dwg Updated By: Shir

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DRAWING NUMBER:	TITLE:	REVISION:
CU2-PW00-DRG-PAS-200-0001	COVER SHEET AND LOCALITY PLAN	A
CU2-PW00-DRG-PAS-200-0002	DRAWING SCHEDULE	A
CU2-PW00-DRG-PAS-200-0005	GENERAL NOTES	A
CU2-PW00-DRG-PAS-200-0006	GENERAL LEGEND	A
CU2-PW00-DRG-PAS-200-0011	TYPICAL DETAILS - STATE CONTROLLED ROAD - BAR & BAL TREATMENT	A
CU2-PW00-DRG-PAS-200-0012	TYPICAL DETAILS - STATE CONTROLLED ROAD - SIGNAGE AND LINEMARKING	A
CU2-PW00-DRG-PAS-200-0021	TYPICAL DETAILS - LOCAL GOVERNMENT ROAD	A
CU2-PW00-DRG-PAS-200-0041	TYPICAL DETAILS - PAVEMENT PROFILES	A

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DRAWING SCHEDULE

DATUMS:	GDA20 - MGA54/55	CLIENT No. CU2	
DRAWING No.	CU2-PW00-DRG-PAS-200-0002	REVISION	
Jul. 5, 23 - 12:08	:56 Name: CU2-PW00-DRG-PAS-200-0002.	dwg Updated By: Shirle	ey Gago Cjumo

GENERAL:

1. ALL DIMENSIONS WITHIN THIS DRAWING SET ARE IN METERS UNLESS SHOWN OTHERWISE.

- 2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES WITH THE RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION. ANY COSTS ASSOCIATED WITH REPAIRING DAMAGE TO THE EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL ENSURE ALL SITE SPECIFIC PERMITS ARE IN PLACE PRIOR TO COMMENCEMENT OF WORKS (PERMITS TO DISTURB POWER LINES ETC).
- 4. ALL WORK SHALL SHALL BE CARRIED OUT IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY GUIDELINES, SPECIFICATIONS AND DRAWINGS UNLESS DIRECTED OTHERWISE.
- 5. THE CONTRACTOR SHALL INFORM RELEVANT LOCAL, STATE, NATIONAL AUTHORITY AND THE SUPERINTENDENT OF CONSTRUCTION START DATE PRIOR TO COMMENCEMENT OF WORKS.
- 6. THE CONTRACTOR'S APPROVED TRAFFIC MANAGEMENT PLAN (T.M.P.) AND TRAFFIC GUIDANCE SCHEME SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF WORKS SHALL BE IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY.
- 7. THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN (E.S.C.P.) SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF WORKS IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY.
- 8. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY.
- 9. ALL MATERIALS SHALL BE TRANSPORTED VIA DESIGNATED CONSTRUCTION ACCESS ROUTES UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT
- 10. ALL LEVELS IN THIS CONTRACT ARE AUSTRALIAN HEIGHT DATUM (AHD).
- 11. LEVELS FOR CONNECTS TO EXISTING WORKS MAY BE VARIED WHERE NECESSARY ON SITE TO ACHIEVE A SATISFACTORY SMOOTH FINISH TO THE EXISTING WORKS UPON APPROVAL BY SUPERINTENDENT.
- 12. ALL LEVELS ARE DM DERIVED FOR LAYOUTS, LONGITUDINAL SECTIONS AND CROSS SECTIONS. CONTRACTOR TO CONFIRM LEVELS ON SITE BEFORE CONSTRUCTION.
- 13. ALL ROAD SIGNS TO BE IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY SPECIFICATIONS RESPECTIVELY.
- 14. DO NOT OBTAIN DIMENSIONS FROM SCALING OFF PLANS.

EARTHWORKS:

- 15. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY GUIDELINES UNLESS NOTED OTHERWISE.
- 16. ALL EARTHWORKS QUANTITIES ARE SOLID FILL.
- 17. EARTHWORKS SPOIL IS TO BE STOCKPILED AS DIRECTED BY THE SUPERINTENDENT. TOPSOIL IS TO BE STRIPPED TO A DEPTH OF 50mm AND STOCKPILED FOR LATER RE-SPREADING. AREAS REQUIRING FILLING OR ROAD WORKS ARE TO BE STRIPPED AND VEGETATION IN OTHER AREAS SHALL BE RETAINED.
- 18. NOT WITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION, SIMILARLY, FINISHED SURFACE LEVELS MAY BE ADJUSTED BY A WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION WITH PRIOR APPROVAL FROM RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY.
- 19. SILT FENCING IS TO BE PLACED ON THE DOWNSTREAM SIDE OF ALL STOCKPILE SITES AND AN ADEQUATE. CUTOFF DRAIN IS TO BE PLACED ON THE UPSTREAM SIDE OF ALL STOCKPILE SITES.
- 20. BATTER SLOPES TO BE 1 IN 4 MAX UNLESS SPECIFIED OTHERWISE.
- 21. ALL GROUND SURFACES DISTURBED DURING EARTHWORKS ARE TO BE HYDROMULCHED IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY GUIDELINES.
- 22. CUT / FILL HEIGHTS PROVIDED IN THE DTM MUST BE ADHERED TO; EXISTING SURFACE HEIGHTS ARE INTERPOLATED FROM A TRIANGULATED DIGITAL TERRAIN MODEL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE EXISTING SURFACE LEVELS AND CORRESPONDING CUT / FILL HEIGHTS TO ACHIEVE THE DESIGN SURFACE LEVEL ON SITE.
- 23. PRIOR TO CONSTRUCTION OF THE ROAD EMBANKMENT. THE CONTRACTOR SHALL COMPLETE A DETAILED SURVEY OF THE CLEARED & GRUBBED SURFACE AND PROVIDE TO GLENCORE TO CONFIRM FINISHED SURFACE LEVELS.

PAVEMENT:

- 24. THE PAVEMENT DESIGN IS BASED ON P&S DOCUMENT NUMBER P.21.0700-PAVEMENT DESIGN.
- 25. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY GUIDELINES UNLESS NOTED OTHERWISE.
- 26. PAVEMENT THICKNESS SHOWN ON THESE DRAWINGS IS PROVISIONAL ONLY AND SHALL BE CONFIRMED AFTER SUBGRADE TESTING. THE CONTRACTOR SHALL INITIALLY EXCAVATE 210mm BELOW FINISHED SURFACE LEVEL AND CARRY OUT BR TESTING TO CONFIRM THE REQUIRED PAVEMENT DESIGN.

STORMWATER:

- 27. ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT LOCAL, STATE AND NATIONAL AUTHORITY GUIDELINES.
- 28. THE LEVELS AND SLOPES SHOWN ON STORMWATER STRUCTURES ARE INDICATIVE ONLY.
- 29. ALL REINFORCED CONCRETE PIPES TO BE FLUSH JOINT AND MINIMUM CLASS 3 UNO.
- 30. ALL HEADWALLS ARE TO BE PRECAST TYPE REFER DTMR STD. DRAWING 1243 AND 1359 FOR CONSTRUCTION DETAILS. PIPE SUPPORT TO BE TYPE H2.
- 31. TEMPORARY BRACING, PROPPING ETC. TO DRAINAGE PIPES, CULVERTS AND STRUCTURES MAY BE REQUIRED DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE POSITION AND NO PART SHALL BE OVERSTRESSED DURING CONSTRUCTION.
- 32. ALL LOCATIONS, ORIENTATION AND LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT.
- 33. ALL CULVERTS AND PIPES TO HAVE 600mm COVER PRIOR TO CONSTRUCTION LOADS BEING APPLIED, BASED ON A 50 TONNE TRUCK.
- 34. PIPE LENGTHS FOR TRANSVERSE DRAINAGE ARE SHOWN TO THE NEAREST MULTIPLE OF 1.22m OR 2.44m UNO ON THE DRAWINGS.
- 35. GEOTEXTILE IN ACCORDANCE WITH MRTS27 SHALL BE PLACED UNDER ALL ROCK PROTECTION AND STEEL WIRE MATTRESSES.
- 36. THE DESIGN ALLOWABLE BEARING PRESSURE OF THE BASE SLAB CAST ON GROUND IS 150ka UNO.

REFERENCE FILES ATTACHED:

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						DATE

- 37. CONCRETE CLASS TO BE 32MPa/20 TO AS 3600.
- 38. COVER TO REINFORCEMENT IS 40mm.
- 39. REINFORCING STEEL TO BE AUSTRALIAN MADE GRADE D500N TO AS 4671 REINFORCING MESH TO AS 4671.

SCOUR PROTECTION NOTES:

- 40. ROCK SCOUR PROTECTION FOR STORMWATER OUTLETS TO BE IN ACCORDANCE WITH QUDM.
- 41. MINIMUM ROCK PROTECTION LENGTH (L) TO BE IN ACCORDANCE WITH QUDM.
- 42. MINIMUM DEPTH OF ROCK IS TO BE 2 x MINIMUM ROCK SIZE (d50).
- 43. CHECK DAMS MAY BE CONSTRUCTED OUT OF ROCKS AND SANDBAGS AND IN COMBINATION WITH GEOTEXTILE.
- 44. ROCK PROTECTION TO EXTEND UP THE BANKS TO EITHER THE HEIGHT OF THE PIPE'S OBVERT OR TO THE DESIGN TAILWATER LEVEL (WHICHEVER IS THE HIGHEST).
- 45. ROCK PROTECTION TO BE PROVIDED AROUND THE HEADWALL, WINGWALLS AND APRON AND WHERE APPLICABLE ABOVE THE HEADWALL WHERE THE HEADWALL IS LOCATED WITHIN AN OVERLAND FLOW PATH.
- 46. GEOTEXTILE TO BE CONSTRUCTED OUT OF WATER PERMEABLE MATERIAL USUALLY SYNTHETIC MATERIAL SUCH AS POLYPROPYLENE. TO BE USED AS PART OF EROSION AND SEDIMENT CONTROL METHOD IN CONSTRUCTION AND STORMWATER MANAGEMENT SITUATIONS TO TRAP OR PREVENT CLOGGING OF AGGREGATES BY SOIL/CLAY/SILT PARTICLES.
- 47. GEOTEXTILE MUST BE OF SUFFICIENT STRENGTH/DURABILITY TO WITHSTAND BREAKAGE FROM WATER FLOW, SEDIMENT BUILDUP, AND EXPOSURE TO SUNLIGHT.
- 48. CONSULT WITH MANUFACTURER OF GEOTEXTILE TO VERIFY THAT IT CAN PERFORM THE FUNCTION THAT IS REQUIRED OF IT.
- 49. IF SLOPE OF CHANNEL / TABLE DRAIN IS BETWEEN 1:1 AND 1:10, EXCAVATE OUT TO A DEPTH OF 300mm WHERE THE ROCK CHECK DAMS ARE GOING TO BE EMBEDDED.
- 50. LAY DOWN GEOTEXTILE OVER THE WHOLE AREA THE ROCK CHECK DAMS IS TO BE CONSTRUCTED UPON.
- 51. ROCK CHECK DAMS ARE LIMITED TO 0,5m IN HEIGHT, ALTHOUGH IF SPECIALLY DESIGNED CAN BE UP TO 1.0m IN HEIGHT. STRAW BALE AND SANDBAG DAMS ARE UP TO 0.6m IN HEIGHT, CHECK DAMS CAN NOT BE USED IN DEFINED WATERCOURSES AND SHOULD ONLY BE USED IN STRAIGHT SECTIONS OF CHANNEL.
- 52. CHECK DAMS ARE TO BE LOCATED SO THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME LEVEL AS THE SPILLWAY AT THE DOWNSTREAM DAM.
- 53. SAND BAGS ARE TO BE MADE OUT OF HESSIAN OR MATERIAL THAT WILL NOT RIP OR BE SHREDDED BY THE WATER FLOW. FILTER MATERIAL FOR THE SANDBAGS IS TO BE SAND. SHARP EDGED AGGREGATE OR STONE IS NOT TO BE USED. THE SAND BAGS ARE TO BE INTERLOCKED INTO THE POSITION SO THAT THEY CANNOT BE EASILY MOVED.

SEDIMENT EROSION:

- 54. ALL CONTROL MEASURES TO BE INSPECTED AT LEAST WEEKLY AND AFTER SIGNIFICANT RUNOFF PRODUCING STORMS.
- 55. CONTROL MEASURES MAY BE REMOVED WHEN ON-SITE EROSION IS CONTROLLED AND 70% PERMANENT SOIL COVERAGE IS OBTAINED OVER ALL UPSTREAM DISTURBED LAND.
- 56. IN AREAS WHERE RUNOFF TURBIDITY IS TO BE CONTROLLED, EXPOSED SURFACES TO BE EITHER MULCHED, COVERED WITH EROSION CONTROL BLANKETS OR TURFED IF EARTHWORKS ARE EXPECTED TO BE DELAYED FOR MORE THAN 14 DAYS.
- 57. STRAW BALE SEDIMENT TRAPS ARE A SECONDARY OPTION WHICH GENERALLY SHOULD NOT BE USED IF OTHER OPTIONS ARE AVAILABLE.

SEDIMENT FENCE:

- 58. NOT TO BE LOCATED IN AREAS OF CONCENTRATED FLOW.
- 59. NORMALLY LOCATED ALONG THE CONTOUR WITH A MAXIMUM CATCHMENT AREA 0.6HA PER 100m LENGTH OF FENCE.
- 60. WOVEN FABRICS ARE PREFERRED, NON-WOVEN FABRICS MAY BE USED ON SMALL WORK SITES. I.E. OPERATIONAL PERIOD LESS THAN 6 MONTHS OR ON SITES WHERE SIGNIFICANT SEDIMENT RUNOFF IS NOT EXPECTED.
- 61. FENCES ARE REQUIRED 2m MIN FROM TOE OF CUT OR FILL BATTERS, WHERE NOT PRACTICAL ONE FENCE CAN BE AT THE TOE WITH A SECOND FENCE 1m MIN AWAY. FENCE SHOULD NOT BE LOCATED PARALLEL WITH TOE IF CONCENTRATION OF FLOW WILL OCCUR BEHIND THE FENCE.

SCALE (PLOTTED FULL SIZE)	N.T.S.	SHEET SIZE		CLIENT	CPB UGL JV	
		GL	pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309	CONTRACT TITLE	COPPERSTRING 2032 ROAD UPGRADES	
			© 2023 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.	STATUS	30% DESIGN	

P&S FORM DRG-A1 REV 29

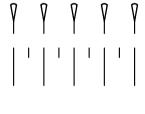
GENERAL NOTES

DATUMS:	GDA20 - MGA54/55	CLIENT No. CU2	
DRAWING No.	CU2-PW00-DRG-PAS-200-0005	REVISION	
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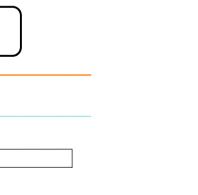
EXISTING (SURVEY)		DESIGN (ROADWORKS	5)
· · · · · ·	BANK - BOTTOM		CONTROL LINE - CENTRELINE
	BANK - TOP - LEFT		CONTROL LINE - FILLET
$\rightarrow \rightarrow $	BANK - TOP - RIGHT		CONTROL LINE - KERB
	CHANGE OF GRADE		OFFSET CROWN
	CULVERT HEADWALL		EDGE OF LANE SEAL
	DRAIN - DOWN		EDGE OF MEDIAN
	DRAIN - UP		EDGE OF SHOULDER (SEALED)
	DRIVEWAY EDGE		EDGE OF FORMATION (UNSEALE
	PAVEMENT EDGE		SAFETY BARRIER STEEL BEAM
	SHOULDER EDGE		SAFETY BARRIER WIRE ROPE
	TRACK EDGE		SAFETY BARRIER TYPE F
· -	WATER EDGE		KERB - LIP LINE/EDGE OF SEAL
	FOOTPATH EDGE		KERB - INVERT
	KERB - BACK		KERB - TOP
	KERB - INVERT		KERB - BACK
	KERB - CHANNEL LIP		FOOTPATH BACK/FOOTPATH FR
	KERB - TOP		TABLE DRAIN
	RETAINING WALL - BOTTOM		EDGE OF VERGE
	RETAINING WALL - TOP - LEFT		EARTHWORKS - HINGE
	RETAINING WALL - TOP - RIGHT		EARTHWORKS - BATTER
	SAFETY FENCE - W-BEAM		EARTHWORKS - BENCH
	SAFETY FENCE - WIRE ROPE		DRIVEWAY/ACCESS
			INTERFACE/JOINT
EXISTING (LINE MARKING	G)		
·	, SEPARATION 9X3		SUBGRADE

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SEPARATION 9X3
CONTINUITY LINE
BARRIER LINE - DOUBLE UNBROKEN
HOLD/GIVE WAY LINE
BARRIER LINE - BROKEN - LEFT
CHEVRON MARKING OUTLINE
BARRIER LINE - BROKEN - RIGHT
TURN LINE
PAINTED LINE UNBROKEN
STOP LINE







REFERENCE FILES ATTACHED:

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SIGNAGE



NEW SIGN TO BE INSTALLED

PROPOSED SIGN

GE OF FORMATION (UNSEALED)

- FETY BARRIER WIRE ROPE
- FETY BARRIER TYPE F
- RB LIP LINE/EDGE OF SEAL
- RB INVERT
- RB TOP
- RB BACK
- OTPATH BACK/FOOTPATH FRONT
- BLE DRAIN
- GE OF VERGE
- RTHWORKS HINGE
- RTHWORKS BATTER
- RTHWORKS BENCH
- IVEWAY/ACCESS
- ERFACE/JOINT
- BGRADE
- BATTER SYMBOL
- SLOPE SIGNATURE

TOWER PAD

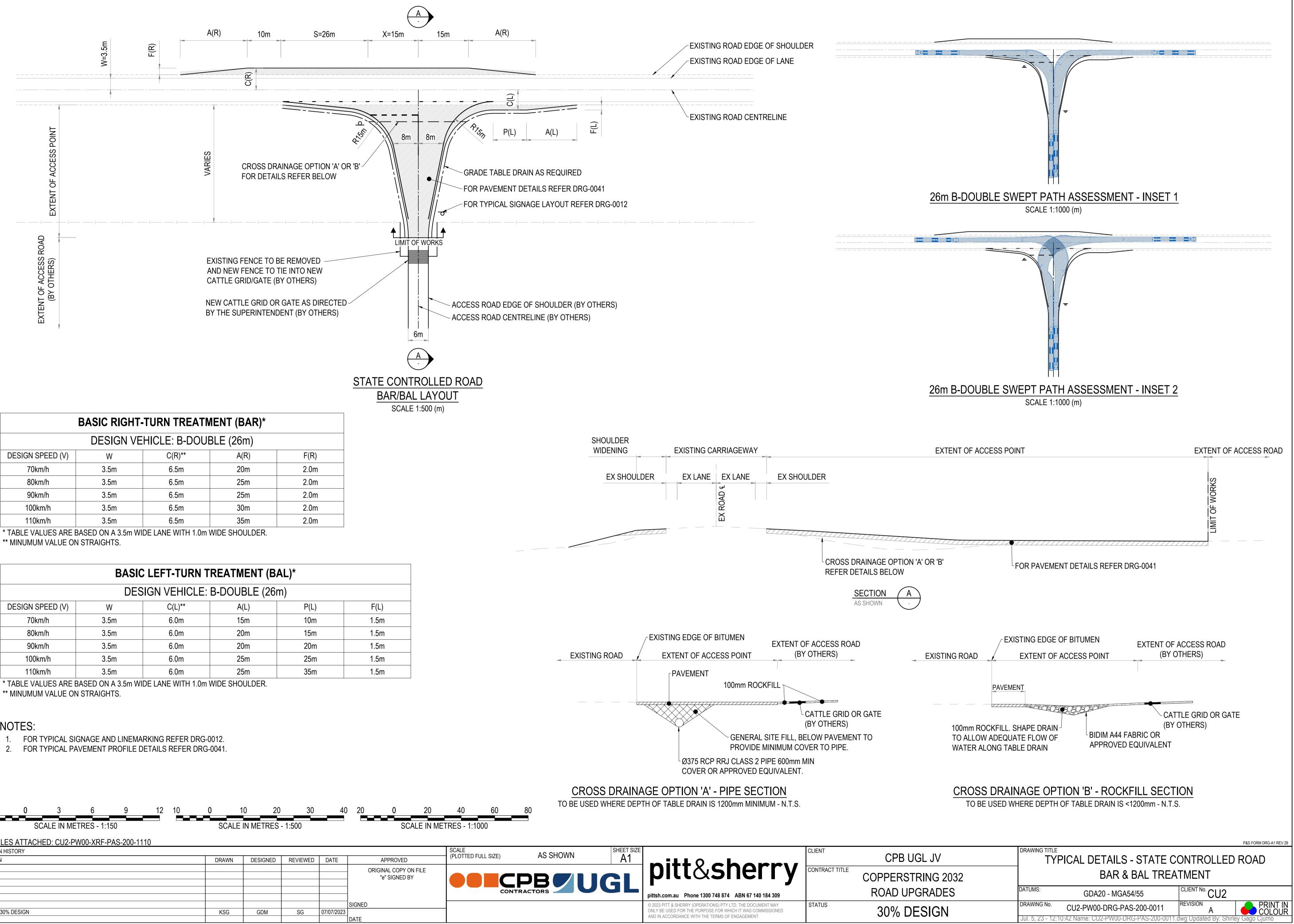
- TOWER CLEARANCE ZONE
- ACCESS TRACK
- PASSING BAY
- CONDUCTOR CLEARANCE



P&S FORM DRG-A1 REV 29

GENERAL LEGEND

DATUMS:	GDA20 - MGA54/55	CLIENT No. CU2	
DRAWING No.	CU2-PW00-DRG-PAS-200-0006	REVISION	
Jul. 5, 23 - 12:09	:53 Name: CU2-PW00-DRG-PAS-200-0006.	dwg Updated By: Shirle	ey Gago Cjumo



BASIC RIGHT-TURN TREATMENT (BAR)*								
DESIGN VEHICLE: B-DOUBLE (26m)								
DESIGN SPEED (V)	W	C(R)**	A(R)	F(R)				
70km/h	3.5m	6.5m	20m	2.0m				
80km/h	3.5m	6.5m	25m	2.0m				
90km/h	3.5m	6.5m	25m	2.0m				
100km/h	3.5m	6.5m	30m	2.0m				
110km/h	3.5m	6.5m	35m	2.0m				
110km/h				2.0m				

TABLE VALUES ARE BASED ON A 3.5m WIDE LANE WITH 1.0m WIDE SHOULDER.

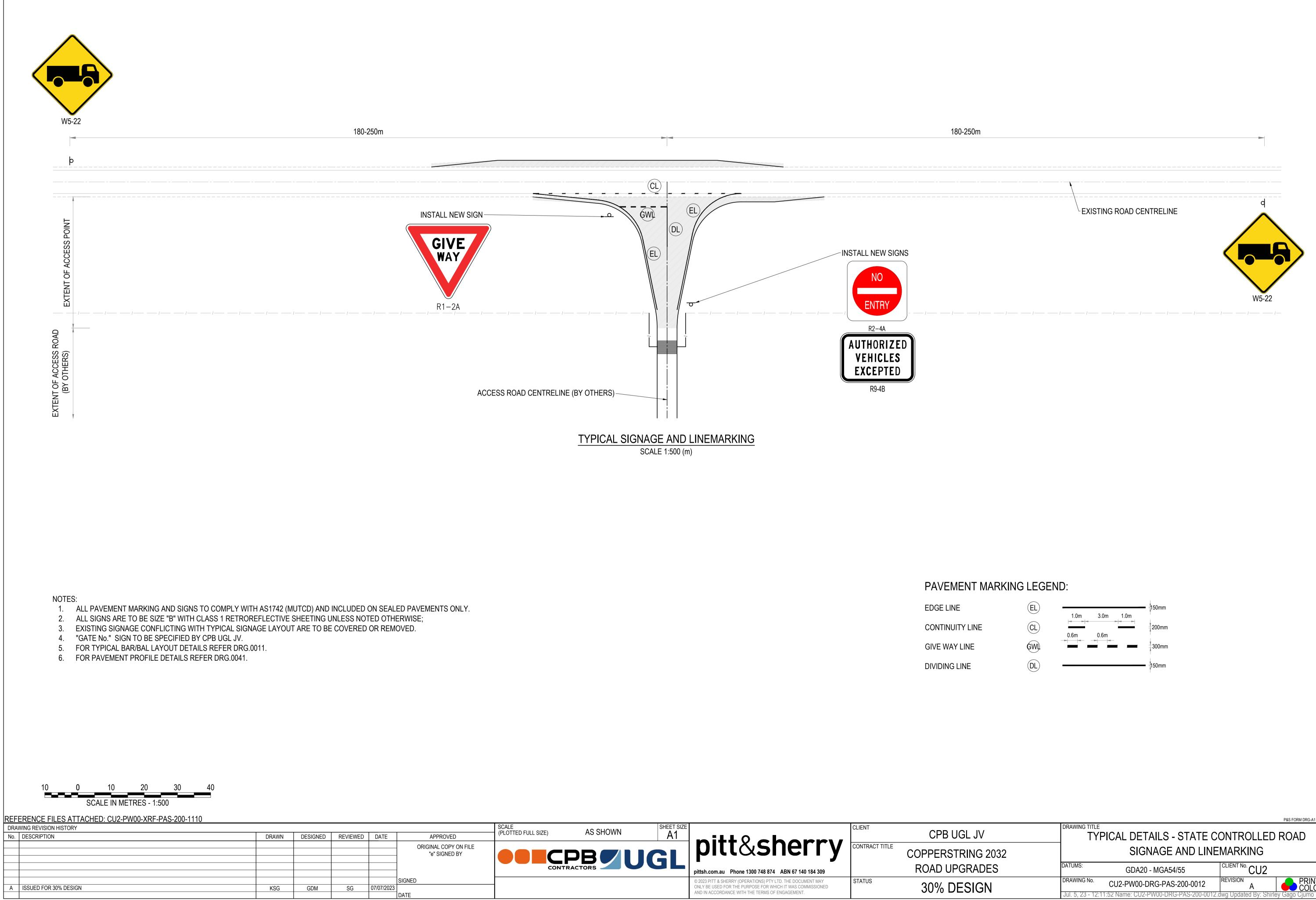
BASIC LEFT-TURN TREATMENT (BAL)*							
DESIGN VEHICLE: B-DOUBLE (26m)							
DESIGN SPEED (V)	W	C(L)**	A(L)	P(L)	F(L)		
70km/h	3.5m	6.0m	15m	10m	1.5m		
80km/h	3.5m	6.0m	20m	15m	1.5m		
90km/h	3.5m	6.0m	20m	20m	1.5m		
100km/h	3.5m	6.0m	25m	25m	1.5m		
110km/h	3.5m	6.0m	25m	35m	1.5m		

* TABLE VALUES ARE BASED ON A 3.5m WIDE LANE WITH 1.0m WIDE SHOULDER.

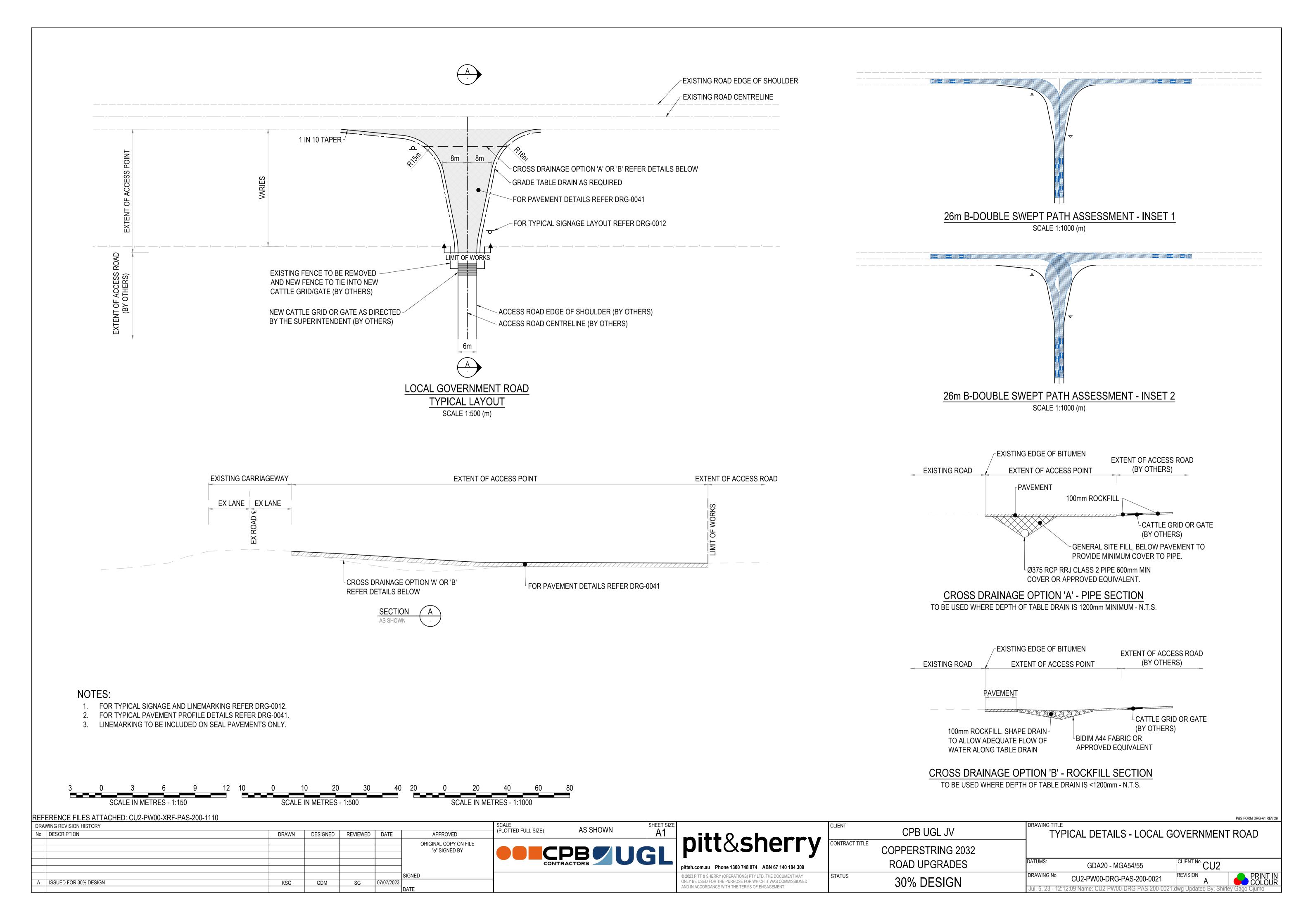
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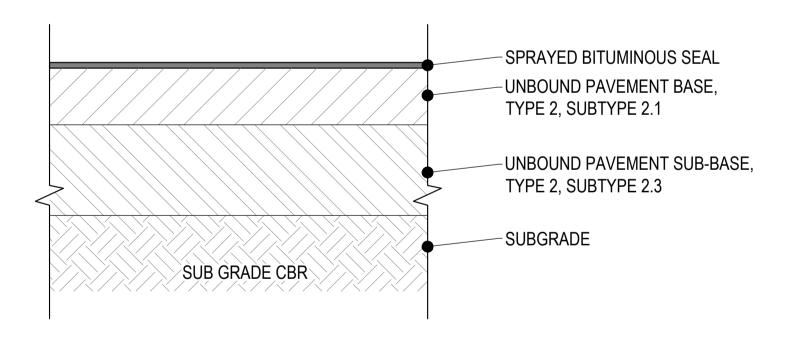
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			P&S FORM DRG-A1 REV 29					
DRAWING TITLE	PICAL DETAILS - STATE C	ONTROLLED	ROAD					
SIGNAGE AND LINEMARKING								
DATUMS:	GDA20 - MGA54/55	CLIENT No. CU2						
DRAWING No.	CU2-PW00-DRG-PAS-200-0012	REVISION						
Jul. 5, 23 - 12:1	1:52 Name: CU2-PW00-DRG-PAS-200-0012.	dwg Updated By: Shirle	ey Gago Cjumo					



STATE CONTROLLED ROAD							
TYPICAL PAVEMENT PROFILE DESIGN ESA = 2.94 x 10 ⁶							
SUBGRADE CBR (%)	3.5	4	5	7			
TOTAL MATERIAL THICKNESS	560	520	460	390			
MIN. BASE COURSE THICKNESS	150						
MIN. SUB-BASE THICKNESS	410 370 310			240			
SEAL							
SHOULDER / WIDENING:	OULDER / WIDENING: TYPE HSS2 – PRIME & 14/7 PMB						
INTERSECTION:	Т	YPE XSS2 — PF	RIME & 14/7 PM	В			



STATE CONTROLLED ROAD PAVEMENT DETAIL NOT TO SCALE

NOTES

PAVEMENT TYPES CAN VARY IN ACCORDANCE WITH TABLES SHOWN FOLLOWING FIELD TESTING.

BASE AND SUB-BASE DEPTHS ARE BASED ON CBR VALUES. 2.

3. FIELD TESTING TO BE UNDERTAKEN AS DIRECTED BY THE ADMINISTRATOR.

REFERENCE FILES ATTACHED:													P&S FORM DRG-A1 REV
DRAWING REVISION HISTORY				SCALE		SHEET SIZE		CLIENT		DRAWING TITLE			
No. DESCRIPTION	DRAWN	DESIGNED REVIEWED DATE	APPROVED	(PLOTTED FULL SIZE)	AS SHOWN	A1		_	CPB UGL JV		TYPICAL DE	ETAILS	
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NOT TO SCALE

LOCAL GOVERNMENT ROAD						
TYPICAL PAVEMENT PROFILE DESIGN ESA = 1.35 x 10 ⁵						
SUBGRADE CBR (%)	3.5	4	5	7		
TOTAL MATERIAL THICKNESS	400	370	330	280		
MIN. BASE COURSE THICKNESS	110					
MIN. SUB-BASE THICKNESS	290 260 220			170		
SEAL						
SHOULDER / WIDENING: PRIME & 14/7 C170 (S/S)						
INTERSECTION:	PRIME & 14/7 C170 (D/D)					

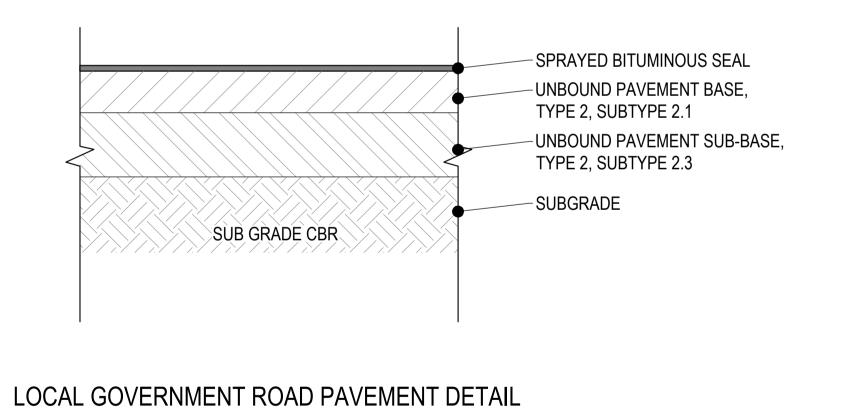
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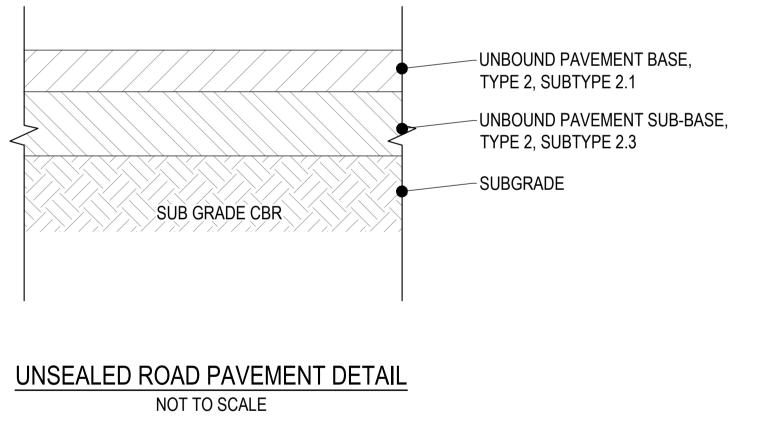
SUBGRADE CBR (%)

TOTAL MATERIAL THICKNESS

MIN. BASE COURSE THICKNESS

MIN. SUB-BASE THICKNESS





UNSEALED ROAD								
CAL PAVEMENT PROFILE DESIGN ESA = 1.35 x 10 ⁵								
3.5	4	5	7					
400	370	330	280					
110								
290	260	220	170					
)	AVEMENT SN ESA = 1.35 : 3.5 400	AVEMENT PROFILE GN ESA = 1.35 x 10 ⁵ 3.5 4 400 370 11	AVEMENT PROFILE SN ESA = 1.35 x 10 ⁵ 3.5 4 400 370 110					