### BILOELA BUS STOP BUS STOP AND FOOTPATH DESIGN IDP ID NO. 21/22 5520-2383-0703



	DF	RAWING	G INDEX					
SHEET NO.	DRAWING	NO.	DRAWING TITLE					
1	5520-2383-070	3-001	LOCALITY PLAN, SCOPE OF WORK & SH	IEET INDEX				
2	5520-2383-070	3-002	EXISTING FEATURE PLAN & SURVEY CON	TROL POINTS				
3	5520-2383-070	3-003	PROPOSED FEATURE PLANS					
4	5520-2383-070	3-004	TYPICAL SECTIONS					
5	5520-2383-070	3-005	LONGITUDINAL SECTION OF CENTERLINE OF 1 SIGNAGE DETAILS AND SETOUT POINT					
6	5520-2383-070	3-006	CROSS SECTIONS OF THE PROPOSED F					
	STANDARD							
DR		DRAW	DRAWING TITLE					
	MDG-R-050		KERB RAMP DETAILS					
	MDG-R-051	CONCRE	TE PATHWAY / BIKEWAY DETAILS					
	CB3515-1010-03	BUS SHELTER LAYOUT						
GOSSI-	CB3515-1010-03	BUS STOP SHELTER - STRUCTURAL NOTES						
DILEIGH	-D21.100-TBS-01	TYPICAL BUS SHELTER POST FOOTING & FIXING DETAILS						
C	MDG-R-081	SIGN LOCATION AND INSTALLATION DETAILS						
TRANSLINK SIGN	AGE MANUAL SPEC 4.27.1	1 BUS STOP J POLE SIGN (TRANSLINK)						
	HMENT	NT AND ERRO	ISION CONTROL					

		DF	RAWING	i INDEX	
S	HEET NO.	DRAWING	NO.	DRAWING TI	ΓLE
	1	5520-2383-070	3-001	LOCALITY PLAN, SCOPE OF WOF	K & SHEET INDEX
	2	5520-2383-0702	3-002	EXISTING FEATURE PLAN & SURVI	EY CONTROL POINTS
	3	5520-2383-070	3-003	PROPOSED FEATURE	PLANS
	4	5520-2383-0703	3-004	TYPICAL SECTION	DNS
	5	5520-2383-0703	3-005	LONGITUDINAL SECTION OF CENTERLI SIGNAGE DETAILS AND SETOU	
	6	5520-2383-0703	3-006	CROSS SECTIONS OF THE PROP	
	СМД	STANDARD WING NO. MG-R-050 MG-R-051		NG INDEX DRAWING TITLE KERB RAMP DETAILS E PATHWAY / BIKEWAY DETAILS	
		33515-1010-03		BUS SHELTER LAYOUT	-
		021.100-TBS-01		JS SHELTER POST FOOTING & FIXING DETAILS	-
	CMD	0G-R-081	SIGN LOCA		
	TRANSLINK SIGNA	GE MANUAL SPEC 4.27.1	BUS S	TOP J POLE SIGN (TRANSLINK)	
<u>s(</u>	COPE OF WORE SITE ESTABLISH PROVISION FOR T	 MENT			

D	FOR CONSTRUCTION	05/07/2022	ALL UNITS IN METER UNLESS OTHERWISE SPECIFIED.     ALL UNDERGROUND SERVICES SHALL BE LOCATED BY
٢	FOR REVIEW	29/06/2022	POTHOLING PRIOR TO ANY EARTHWORKS.
В	FOR REVIEW	21/06/2022	MAPPING GRID 1994, ZONE 56.
А	FOR REVIEW	03/06/2022	
NO.	REVISION	DATE	GENERAL NOTES:



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



### BILOELA BUS STOP LOCALITY PLAN AND DRAWING INDEX

	DWG. NO.	SHEET	ISSUE
SCALE	5520-2383-0703-001	1 OF 6	D

### EXISTING FEATURES LEGEND

LAISTINGTEATORI	J LLULIND
ELEVATION	EXISITNG SURFACE CONTOURS (MAJOR)
ELEVATION	EXISITNG SURFACE CONTOURS (MINOR)
· · · · · · · · · · · · · · · · · · ·	EXISITNG PAVEMENT LINEMARKING
	DCDB
	EXISTING KERB AND CHANNEL
EO EO	EXISITNG OVERHEAD ELECTRIC AND POLE
ŢŢ	EXISITNG STORMWATER PIPE (APPROX. LOCATION)
	EXISITNG WATER MAIN (APPROXX. LOCATION)
S S	EXISITNG SEWER LINE (APPROXX, LOCATION)
	EXISITNG DRIVEWAY
	EXISITNG KERB RAMP
6	EXISITNG ELECTRIC POLE
	EXISITNG TELECOM MANHOLE (640 X 350)
	EXSITING SIGNAGE
	PERMANENT SURVEY MARK
$\bigtriangleup$	CONTROL POINTS
0	VEGETATION
Elle.	EXISITNG ELECTRICAL PIT
Ŵ	EXISITNG WATER FITTING
NO.	SURVEY CONTROL POINTS
	APPROX. AREA OF EXISTING CONCRETE DEMOLITION
	APPROX. AREA OF EXISTING KERB AND CHANNEL DEMOLITION TO INSTALL PROPOSED KERB RAMP
SETOUT P	DINTS DETAILS

SETOUT POINTS DETAILS											
POINT No.	EASTING	NORTHING	LEVEL	DESCRIPTION							
11	247576.575	7298801.946	175.619	SURVEY POINTS							
12	247595.297	7298804.125	175.776	SURVEY POINTS							
13	247595.198	7298808.828	175.683	SURVEY POINTS							

FOR CONSTRUCTION 05/07/2022 DAWSON HIGHWAY 0 NO THROUGH ROAD

1	11		
D	FOR CONSTRUCTION	05/07/2022	-
С	FOR REVIEW	29/06/2022	
В	FOR REVIEW	21/06/2022	
А	FOR REVIEW	03/06/2022	
NO.	REVISION	DATE	GENERAL NOTES:

 ALL UNITS IN METER UNLESS OTHERWISE SPECIFIED.
 ALL UNDERGROUND SERVICES SHALL BE LOCATED BY POTHOLING PRIOR TO ANY EARTHWORKS.
 MAPPING GRID 1994, ZONE 56.

PUMA PETROL PUMP

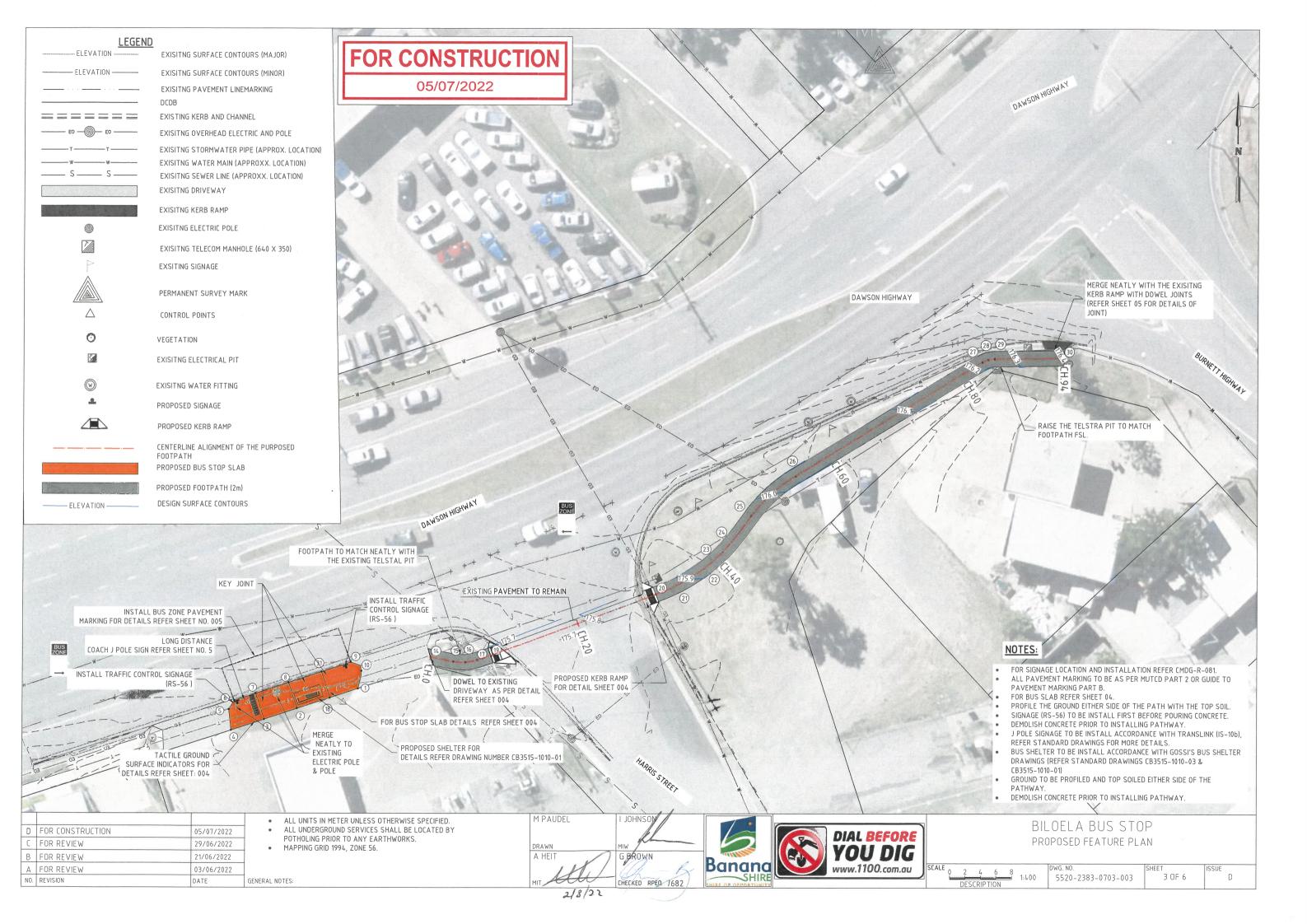
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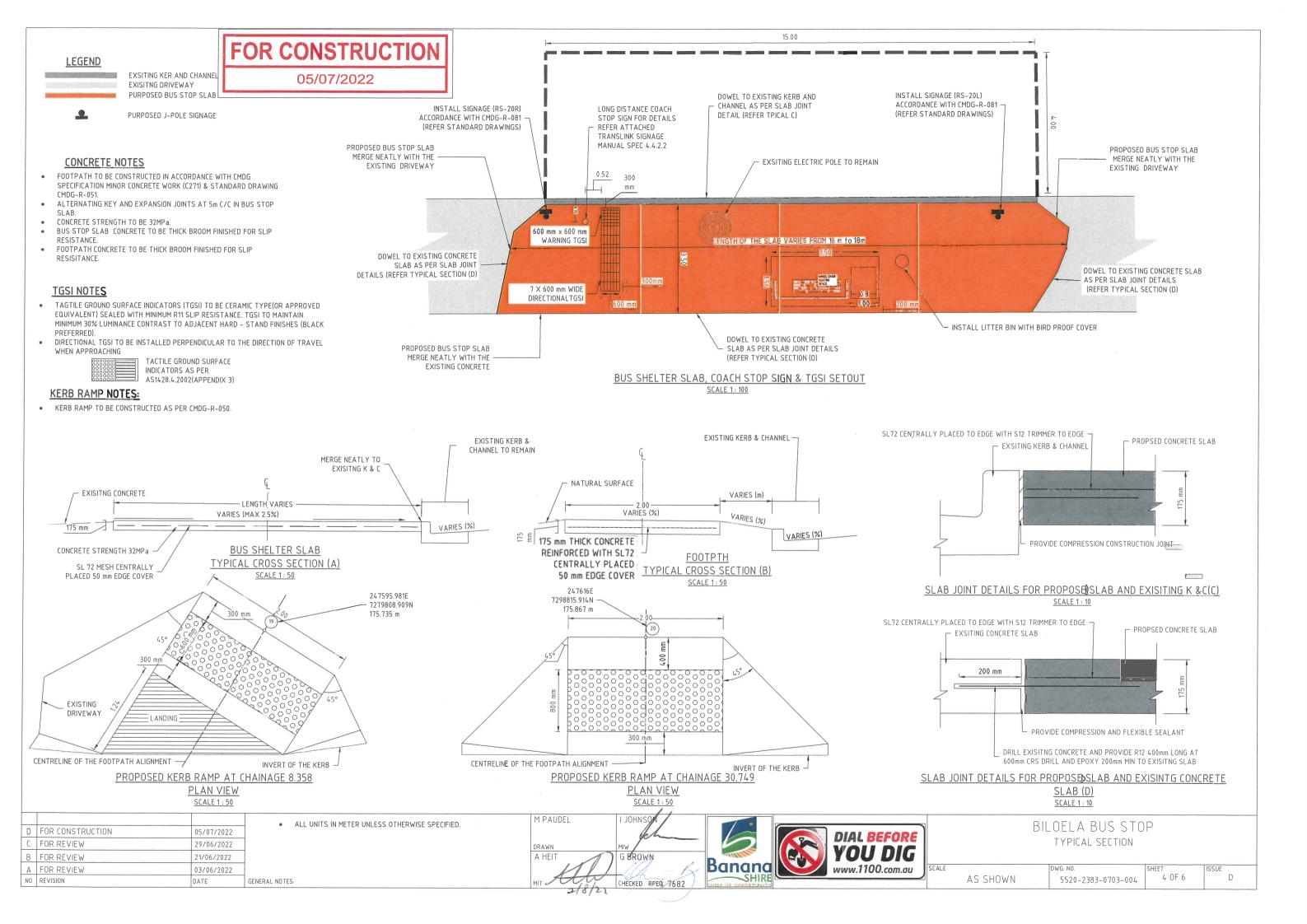
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CONCRETE N     THE JOB.	EED TO BE DEMOLISH AND	REMOVE PRIOR TO	27
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REMOVED FC SHEET 005.	R THE NEW KERB RAMP. FO	OR DETAIL REFER	
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			1.5
RII O	ELA BUS STO	P	
EXISTING FEATURE PI			NTS
	LINE AND SOMVEL		
	5. NO.	SHEET	ISSUE
DESCRIPTION 1:400 55	520-2383-0703-002	2 OF 6	D





TRANSITION TO EXISTING DRIVEW	/ay ¬								DES	IGN CE	NTERLI	INE OF TH	IE PROPOSED FOO	TPATH 7										MEF	RGE NEATL	Y TO EX	ISITNG K	ERB RAMP -	
				/	PORPOSED	KERB RA	MP AND	EXISTING R	OAD TO BE F	EMAIN				w.															
	I.P. 175.725					HAH	RIS STR	2EET			I.P. 175.868							I.P. 176.012					I.P. 176.091		I.P. 176.167			I.P. 176.319	
			0.046		<1	10.00 1804.914	R	>	· 0 /	< <u>52</u>	5.00 263,128	R>		0 ( 70 (		<		10.00 16.489 F	2	>		<	20 00 3103.85	3 R		$\rightarrow$		7.00 532.883 R	
R.L. 159.7	00		0.215	/0		~		0.76	0%		×			0.67%				×-			0.39	%		1.04%	->		1.74%	1.61%	
Existing Levels	175.725 175.731	175.738	5.74	175.746		<u> </u>	175.781 175.786		0,17 0,17	175.861	175.867	175.884	175.929	175.958	ഗ	175.979	000 761	0	<u>, 0.07</u>	176.042	0.0	060971			176.168	176.195	176.253 176.253	ان اف اذ	
Design Levels	175.725 175.731	175.738	175.742				175.781					1/8.4/1		175.958	175.977				1/6.021							6 22	176.253		
Cut Fill	-0.041	- 0.008	0	-0.154		-0.096	-0.094	- 0.087	L 70 0 -	-0.010	-0.032	-0.041	+ 0.004	- 0.020	-0.029	-0.030		<u>,  </u>	04	-0.024	- 0.016	6 E U U -			+0.001	-0.001	-0.005	-0.00- + 0.017 + 0.026	
Chainage	0.000 2.987	6.147	8.351	10.000		16.666	19.223 20.000	21.666	28.789	30.000	30.789	33.289	4.0.000	44.262	4 7.115	47.379 50.000		<u>n</u> 1	/ <u>2</u> .	60.000	2.52	00007	72.521		79.806	82.521	84.787 1.10.38	00.0444 88.544 90.000	

## LONGITUDINAL SECTION OF CENTERLINE OF THE PURPOSED FOOTPATH CH.00.000 TO 95.244

PARKING CONTROL SIGNAGE LEGEND									
	<b>.</b>	Proposed parking signs							
BUS ZONE R5-20 (L)	R5-20 (R)	R5-36L/R							
PARK	ING CONTRO	L SIGNAGE NOTES							
SIGNAGE E		BE DESIGNED ACCORDING TO \$3:2018							
PARKIN	G CONTROL SIGN	AGE ELEMENTS AS BELOW							
Comp	onent	Details							
panel	size	W1 (225mm x 450mm)							
Arr	'O W	Left & Right arrow							
User lin	nitation	Buses expected							

	PAVEMENT MARKING LEGEND										
	Not to Scale										
All markings to be	All markings to be as per MUTCD Part 2 or Guide to Pavement Markings Part B.										
TRANSVERSE MARK	INGS										
<b>ZL</b> Zone Line	0.6m stripe, 0.9m gap Kerb lip/ face	Width: 100mm Colour: Yellow									



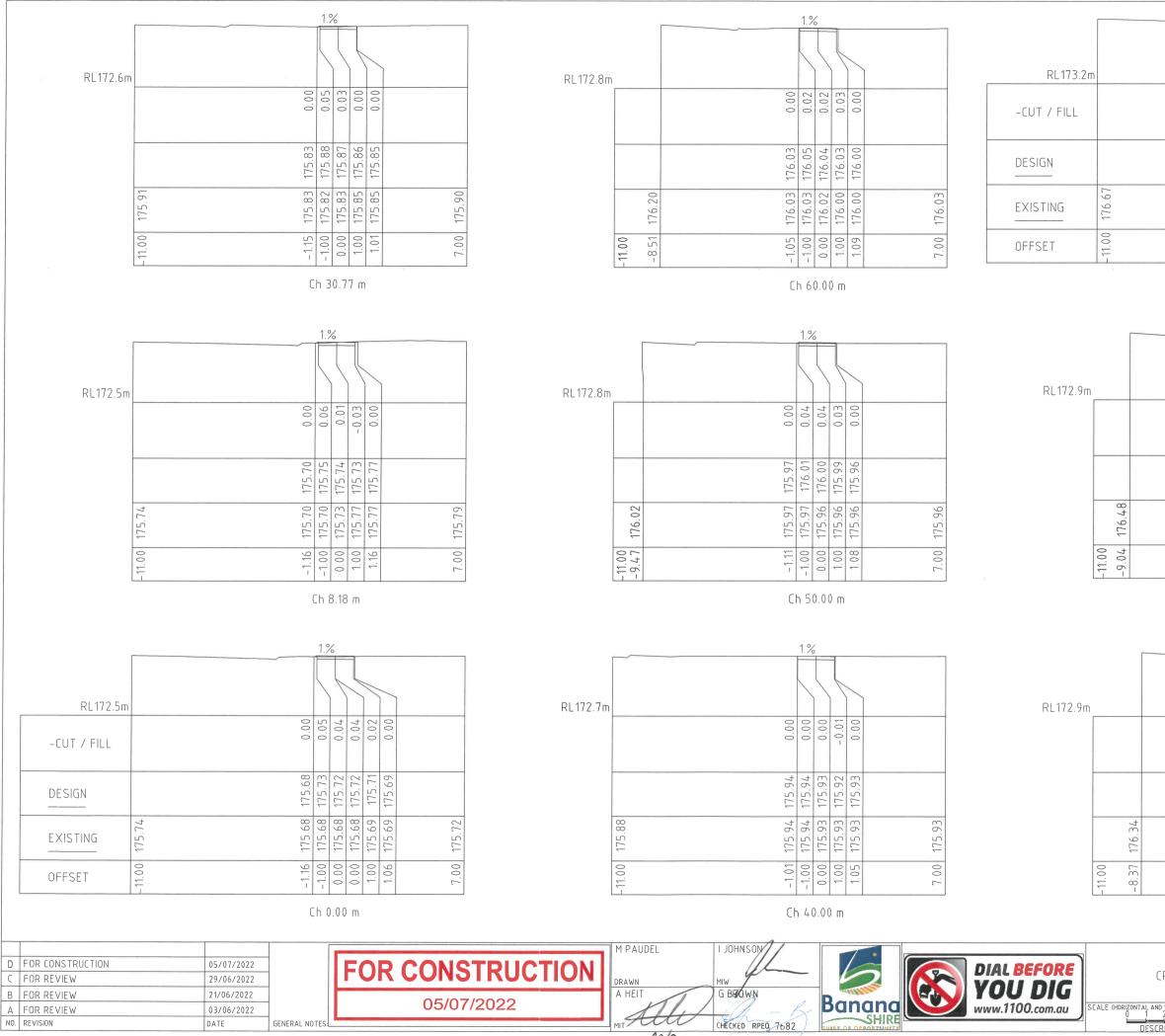
	SETOUT POINTS DETAILS										
POINT No.	EASTING	NORTHING	LEVEL	DESCRIPTION							
1	247578.496	7298803.716	175.632	Bus Stop Slab							
2	247572.452	7298801.737	175.588	Bus Stop Slab							
3	247566.750	7298799.871	175.546	Bus Stop Slab							
4	247561.990	7298798.335	175.511	Bus Stop Slab							
5	247561.699	7298801.020	175.438	Bus Stop Slab							
6	247562.399	7298802.154	175.442	Bus Stop Slab							
7	247565.653	7298803.219	175.461	Bus Stop Slab							
8	247571.356	7298805.086	175.494	Bus Stop Slab							
9	247577.576	7298807.122	175.530	Bus Stop Slab							
10	247578.933	7298805.975	175.563	Bus Stop Slab							
11	247576.575	7298801.946	175.619	SURVEY POINTS							
12	247595.297	7298804.125	175.776	SURVEY POINTS							
13	247595.198	7298808.828	175.683	SURVEY POINTS							
14	247587.841	7298807.793	174.363	CENTRE OF THE PATH							
15	247590.771	7298807.215	175.731	CENTRE OF THE PATH							
16	247592.344	7298807.111	175.734	CENTRE OF THE PATH							

		.P. 176.091		.P. 176.167						176.319	
		I.P. 17		I.P. 17						I.P. 17	
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			SET	OUT POIN		)FT.	A 11 C				_
	PO	DINT No.	EASTING			.EVE		DESCRIPTION			
	F	17	247593.890	7298807.41		75.73					ATH
		18	247575.300	7298802.67	8 1	75.60	-				
		19	247595.706	7298807.90	9 1	75.73	5 0				
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			247616.996	7298815.91		75.86	7 C	ENTR	EOF	THE P /	ΔTH
		21	247620.313	7298817.37	0 1	75.89	7 C 2 C	ENTR	E OF R OF	THE P /	АТН АТН
	-	22	247620.313 247623.171	7298817.37 7298819.19	0 1	75.89 75.91	7 C 2 C 5 C	ENTR ENTE ENTE	E OF R OF R OF	THE PA THE PA	ATH ATH ATH
			247620.313	7298817.37	0 1 7 1 6 1	75.89	7 () 2 () 5 () 6 ()	ENTR ENTE ENTE ENTE	e of R of R of R of	THE P /	ATH ATH ATH ATH
		22 23	247620.313 247623.171 247625.634	7298817.37 7298819.19 7298821.34	0 1 7 1 6 1 2 1	75.89 75.91 75.93	7 C 2 C 5 C 6 C 7 C	ENTR ENTE ENTE ENTE ENTE	E OF R OF R OF R OF R OF	THE P / THE P / THE P / THE P /	ATH ATH ATH ATH ATH
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		22 23 24 25 26 27 28 29 30	247620.313 247623.171 247625.634 247627.663 247629.369 247635.027 247659.307 247660.893 247660.893 247669.847	7298817.37 7298819.19 7298821.34 7298823.70 7298826.00 7298831.15 7298845.86 7298845.86 7298846.18 7298846.30	0     1       7     1       66     1       22     1       66     1       100     1       99     1       66     1       14     1	75.89 75.91 75.93 75.95 75.97 76.02 76.22 76.23 76.25 76.40	7     C       2     C       5     C       6     C       77     C       66     C       77     C       60     C       79     C       79     C       73     C       74     C       75     C       76     C       77     C       78     C       79     C       73     C       74     C	ENTR ENTE ENTE ENTE ENTE ENTE ENTE ENTE	E OF R OF R OF R OF R OF R OF R OF R OF R	THE PA THE PA THE PA THE PA THE PA THE PA THE PA THE PA	АТН АТН АТН АТН АТН АТН АТН АТН
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### SIGNAGE NOTES:

• SIGNAGE TO BE LOCATE AND INSTALL ACCORDANCE WITH CMDG-R-081.

		<ul> <li>ALL UNITS IN METER UNLESS OTHERWISE SPECIFIED.</li> </ul>	M PAUDEL I JOHNSON
D FOR CONSTRUCTION	05/07/2022	]	
C FOR REVIEW	29/06/2022		
B FOR REVIEW	21/06/2022		
A FOR REVIEW	03/06/2022		Banana www.1100.com.au
IO. REVISION	DATE	GENERAL NOTES:	MIT ALL CHECKED RPEQ 7682



ND VERTICAL) 2 3 4	1:200	DWG. NO. 5520-2383-0703-006	SHEET 6 OF 6	ISSUE D
CRIPTION		3320 2303 0103 000		

### BILOELA BUS STOP CROSS SECTIONS OF THE PROPOSED FOOTPATH

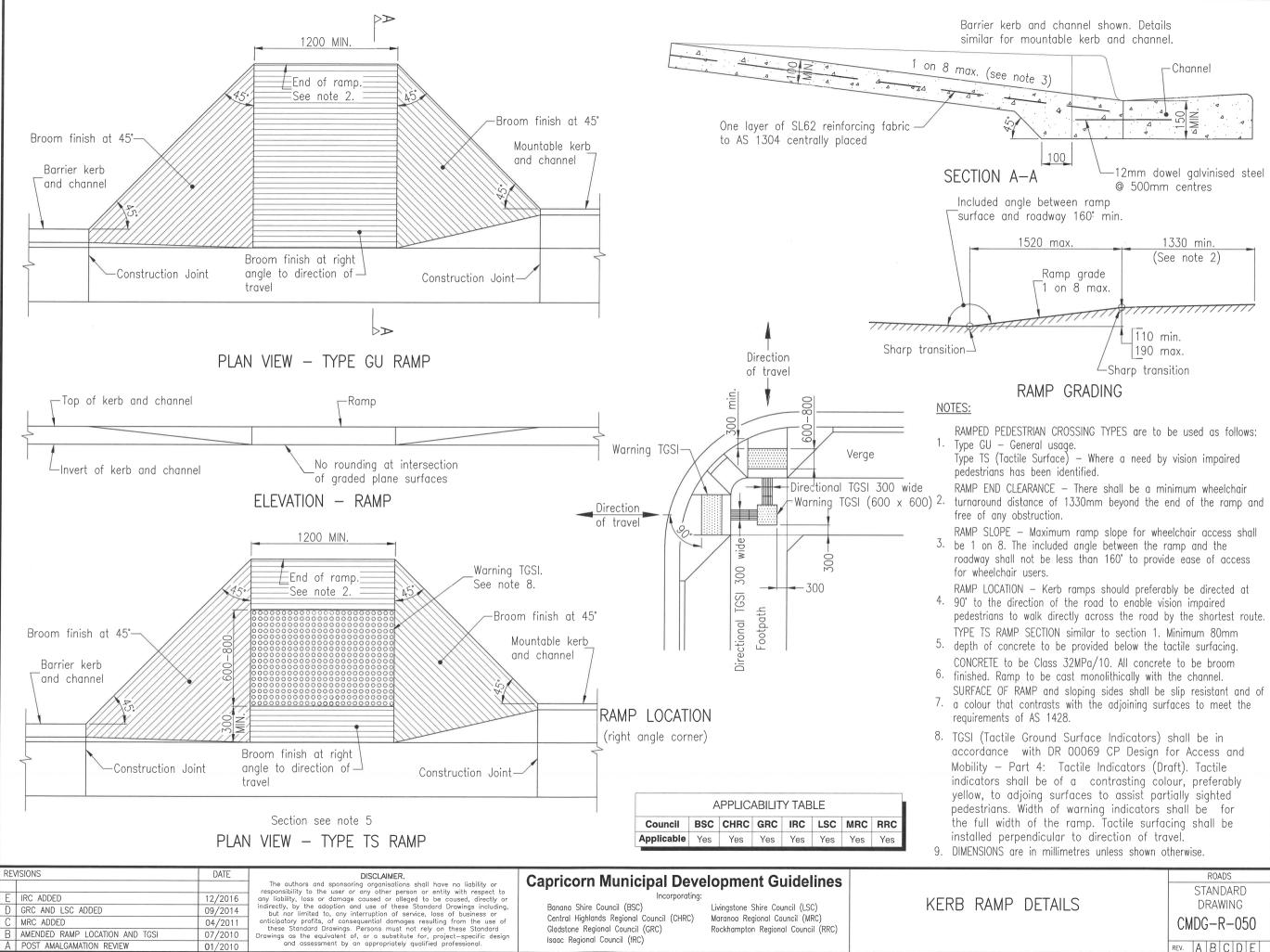
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### Ch 80.00 m

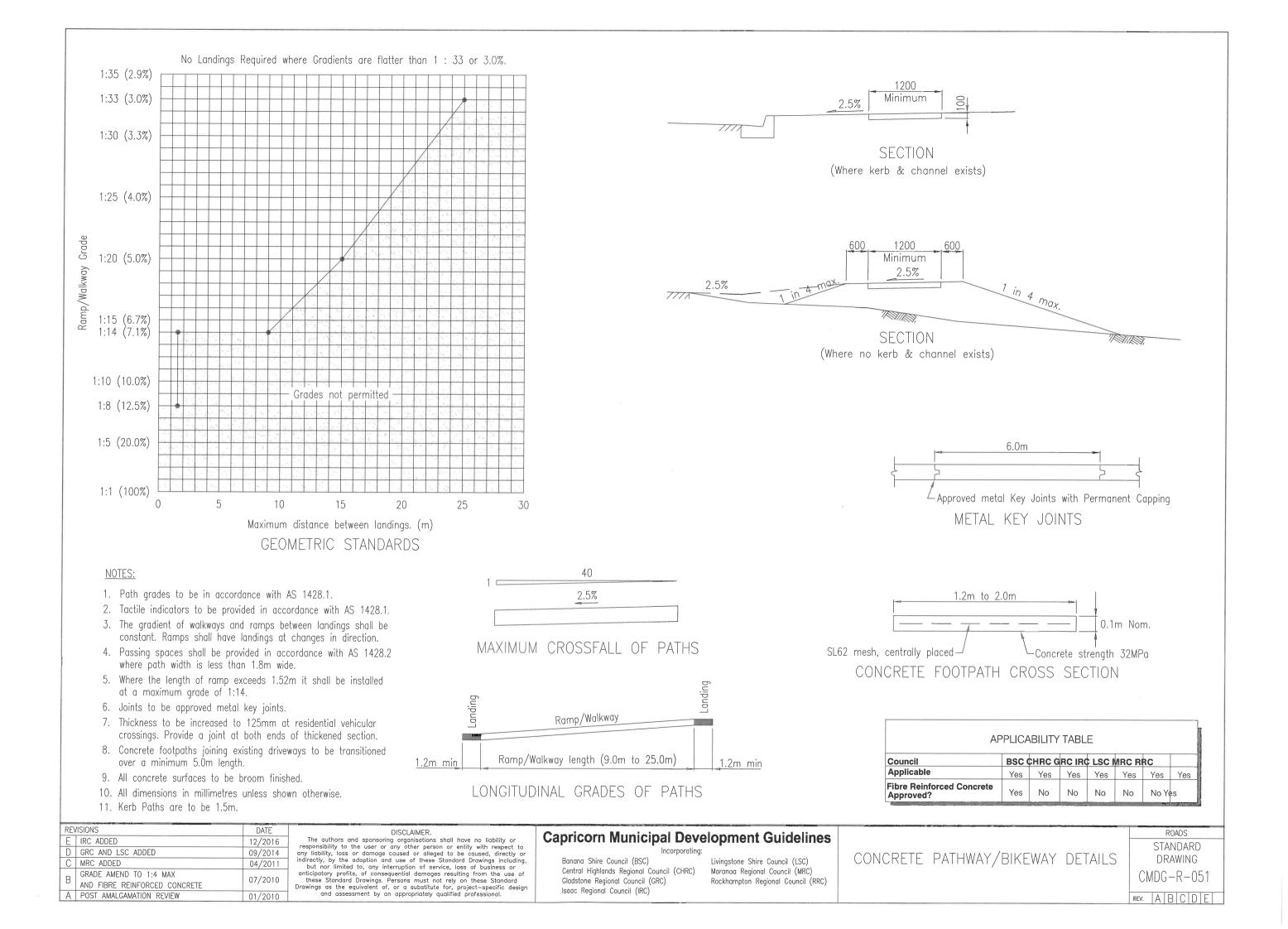
	1.%	2			
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Ch 93.75 m

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176.43	176.43	176.42	176.41	176.41	176.37		
-1.07	-1.00	0.00	1.00	1.07	6.39	7.00	



	ROADS
	STANDARD
AILS	DRAWING
	CMDG-R-050
	REV. A B C D E



#### GENERAL NOTES

G1 THE STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND ALL OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY MUST BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION PRIOR TO COMMENCEMENT OF THE WORK

DETAIL NOTES ON THESE DRAWINGS AND THE SPECIFICATION CLAUSES TAKE PRECEDENCE OVER THE GENERAL NOTES.

- G2 ALL MATERIALS AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE RELEVANT CURRENT STANDARDS AUSTRALIA CODES, THE BUILDING CODE OF AUSTRALIA AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES, EXCEPT WHEN VARIED BY THE CONTRACT DOCUMENTS.
- 63 ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE VERIFIED BY THE CONTRACTOR ON SITE, PRIOR TO COMMENCEMENT OF ANY FABRICATION OR CONSTRUCTION WORKS. THE STRUCTURAL DRAWINGS MUST NOT BE SCALED FOR DIMENSIONS.
- G4 ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES, U.N.O.
- G5 THE STRUCTURAL COMPONENTS DETAILED ON THESE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT STANDARDS AUSTRALIA CODE AND BUILDING CODE OF AUSTRALIA
- G6 THE STRUCTURE HAS BEEN DESIGNED FOR WIND ACTIONS IN ACCORDANCE WITH AS4055-2006 AND AS/NZS1170.2-2011 AS APPROPRIATE. THE ADOPTED ULTIMATE DESIGN WIND SPEED (Vdes, ) IS 37 m/s - N2 WIND CLASSIFICATION.
- 67 THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SAFETY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IF ANY STRUCTURAL ELEMENT PRESENTS DIFFICULTY IN RESPECT OF CONSTRUCTABILITY OR SAFETY, THE MATTER MUST BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION PRIOR TO COMMENCEMENT OF THE WORK
- G8 DURING CONSTRUCTION THE STRUCTURE MUST BE MAINTAINED IN A STABLE CONDITION AND MUST ENSURE THAT NO PART IS OVERLOADED DURING CONSTRUCTION. TEMPORARY PROPPING OR BRACING MUST BE DESIGNED AND PROVIDED BY THE CONTRACTOR AND ISSUED TO THE DESIGN ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT. IN ORDER TO KEEP THE BUILDING WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- 69 CONSTRUCTION JOINTS WHERE NOT SHOWN ON THE DRAWINGS MUST BE TO THE APPROVAL OF THE ENGINEER.
- G10 NO HOLES OR CHASES OTHER THAN THOSE ON THE STRUCTURAL DRAWINGS MUST BE MADE IN ANY STRUCTURAL MEMBER, WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- G11 THESE NOTES MUST ALSO APPLY TO ALL MATERIALS AND PROPRIETARY PRODUCTS USED IN CONSTRUCTION OF THE WORK.
- G12 THE CONTRACTOR MUST BE RESPONSIBLE TO ENSURE ALL MATERIALS AND PROPRIETARY PRODUCTS SOURCED COMPLY WITH THE APPROPRIATE QUALITY AND RELEVANT STANDARDS NOTED WITHIN THESE GENERAL NOTES.

#### FOOTING NOTES

- F1 ALL FOOTINGS ARE TO FOUND IN MATERIAL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 100 kPa F2 THE CONTRACTOR SHALL ENGAGE A GEOTECHNICAL ENGINEER TO CONFIRM THE ADEQUACY OF THE FOUNDING
- MATERIAL (BEARING CAPACITY). PRIOR TO THE PLACEMENT OF MEMBRANE, REINFORCEMENT OR CONCRETE. F3 SHOULD ACTUAL CONDITIONS BE FOUND TO DIFFER FROM THOSE NOTED, THE MATTER SHOULD BE REFERRED TO THE
- SUPERINTENDENT FOR POSSIBLE FOOTING REDESIGN BY THE ENGINEER
- F4 ALL FOOTINGS MUST BE FOUNDED A MINIMUM OF 200mm INTO NATURAL GROUND.
- F5 THE CONTRACTOR MUST CHECK ALL EXCAVATIONS FOR EXISTENCE OF ORGANIC MATERIAL AND RUBBISH. ANY SUCH MATERIAL MUST BE REMOVED AND THE EXCAVATION BACKFILLED WITH CLEAN GRANULAR MATERIAL AND COMPACTED.
- F6 · FOOTINGS MUST BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID EITHER SOFTENING OF THE FOUNDING MATERIAL OR DRYING OUT BY EXPOSURE.
- F7 EXCAVATE FOR FOOTINGS TO THE NOMINATED SIZE AND DEPTH. FOOTING FOUNDING LEVELS ARE PROVISIONAL SUBJECT TO ACTUAL SITE CONDITIONS AND APPROVAL BY THE GEOTECHNICAL ENGINEER.
- F8 CONCRETE MUST BE COMPACTED BY AN IMMERSION VIBRATOR.
- F9 BORED PIERS MUST BE CONSTRUCTED IN ACCORDANCE WITH AS2159 PILING DESIGN AND INSTALLATION EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- F10 PIER HOLES BASES MUST HAVE ALL LOOSE AND DISTURBED MATERIAL REMOVED PRIOR TO PLACING CONCRETE.
- F11 BORED PIER FOOTINGS MUST BE TEMPORARILY SHEATHED DURING BORING AND CASTING CONCRETE IF NECESSARY TO MAINTAIN THE SIDES THAT ARE UNSTABLE AND COLLAPSING. SHEATHING MUST BE REMOVED GRADUALLY AS CASTING PROGRESSES
- F12 PIER HOLES MUST BE KEPT FREE OF WATER. ANY RESIDUAL OR SEEPAGE WATER IS TO BE REMOVED PRIOR TO PLACEMENT OF CONCRETE

#### CONCRETE NOTES:

- C1 ALL CONCRETE PLACED MUST BE COMPACTED BY MECHANICAL VIBRATOR OR SIMILAR METHOD IN ACCORDANCE WITH RELEVANT ALISTRALIAN STANDARDS
- C2 CONCRETE QUALITY:

GRADE	N25
SLUMP	80mm
MAX AGGREGATE SIZE	20mm
	ropor

- C3 MINIMUM CLEAR COVER TO REINFORCEMENT = 50mm
- C4 REINFORCING BAGS DENOTED 'N' MUST BE TYPE D500N
- REINFORCING BARS DENOTED 'R' MUST BE TYPE R250N
- MESH DENOTED SL... OR RL... MUST BE TYPE D500SL OR D500RL RESPECTIVELY TRENCH MESH MUST BE D500L

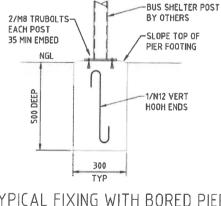
- C5 SLAB MESH IS TO BE SUPPORTED BY PLASTIC CHAIRS AT 800mm MAX SPACING IN EACH DIRECTION ALL BARS AND TRENCH MESH IN FOOTINGS IS TO BE SUPPORTED BY PLASTIC CHAIRS, OR SIMILAR, AT 1200mm MAX SPACING. ALL CHAIRING IS TO MAINTAIN CORRECT COVER AT ALL TIMES AND IN ALL CASES.
- C6 BASES OF BORED PIERS ARE TO BE THOROUGHLY CLEANED OF ALL LOOSE MATERIAL AND MAINTAINED FREE OF DEBRIS PRIOR TO CONCRETE PLACEMENT

#### **DDODDIETADY DDODUCTS**

- P1 ALL PROPRIETARY PRODUCTS MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, EPOXY AND MECHANICAL ANCHORING PRODUCTS, LIFTING DEVICES, STANDARDISED FIXINGS AND CAST-IN ITEMS.
- P2 ANY DISCREPANCIES BETWEEN THE MANUFACTURERS SPECIFICATIONS AND DETAIL NOTES IN THESE DRAWINGS MUST BE REFERRED TO THE SUPERINTENDENT FOR CLARIFICATION PRIOR TO PROCEDING OR INSTALLATION

#### APPENDIX A - EARTHWORKS AND STORMWATER DRAINAGE

- FILL IS TO BE UNIFORMLY COMPACTED IN UP TO 200-300MM HORIZONTAL LAYERS AND ACHIEVE A MINIMUM STANDARD OF COMPACTION OF GREATER THAN 95% RELATIVE TO COMPACTION TEST AS1289.5.1.1 (STANDARD) FOR COHESIVE 4 SOILS OR A DENSITY INDEX GREATER 65% FOR NON-COHESIVE SOILS. BENCHING OF NATURAL GROUND WILL BE REQUIRED ON STEEP SLOPING GROUND.
- CLAYS OF HIGH PLASTICITY OR HIGH IN-SITU MOISTURE CONTENT ARE NOT TO BE USED AS FILL. SHOULD THE AMOUNT OF FILL REQUIRED EXCEED THE AMOUNT OF CUT AVAILABLE (OR THE CUT MATERIAL IS UNSUITABLE), AN IMPORTED GRANULAR FILL WITH A PLASTICITY INDEX PREFERABLY LESS THAN 15% WITH NO EXCESSIVE OVERSIZED MATERIAL MAY BE USED. SEE EARTHWORKS STANDARD CODE FOR SUITABLE FILLS AND ALLOWABLE GRADING), FIELD DENSITY TESTS OR EQUIVALENT SHOULD BE CARRIED OUT TO VERIFY THE STANDARD OF COMPACTION IS ACHIEVED. (SEE CURRENT AUSTRALIAN STANDARD EARTHWORKS STANDARD CODE AS 3798 FOR TYPE AND FREQUENCY OF TESTS WHERE THE FILL MATERIAL DOES NOT ACHIEVE THE ABOVE COMPACTION STANDARD, PIERING OF THE FOOTINGS AND SLAB SYSTEM WILL BE REQUIRED.
- 3. SITE DRAINAGE IS TO BE MAINTAINED AT ALL TIMES BOTH DURING AND AFTER CONSTRUCTION, AT NO TIME DURING CONSTRUCTION OR SUBSEQUENTLY, SHOULD THE WATER BE ALLOWED TO POND ON OR NEAR THE FOOTINGS. TO ENSURE ADEQUATE DRAINAGE FOR SLOPING SITES. DRAINS SHOLILD BE PROVIDED AT THE BOTTOM OF EMBANKMENTS. CLEAR OF THE FOOTING SYSTEM. IF THE SURFACE FLOW IS LIKELY TO BE LARGE, DRAINS SHOULD ALSO BE PROVIDED AT THE TOP OF ANY CUTTING TO AVOID SCOURING OF THE FACE. SURFACE RUN-OFF SHOULD BE COLLECTED AND DRAINED AWAY FROM THE WALL AT 1:100 MIN. DOWN PIPES FROM ROOFS SHOULD NOT BE ALLOWED TO DISCHARGE ON THE GROUND SURFACE NEAR THE WALL EVEN FOR SHORT PERIODS DURING CONSTRUCTION. THE GROUND AROUND THE BUILDING SHOULD BE SLOPED AWAY FROM THE WALL AT A GRADE OF 1:20 AT A MINIMUM DISTANCE OF
- 4. TREES: TO REDUCE, BUT NOT ELIMINATE, THE POSSIBILITY OF DAMAGE FROM TREES, EXISTING OR FUTURE, TREES SHOULD BE RESTRICTED TO A DISTANCE FROM THE HOUSE OF
  - FOR CLASS E SITES (OR EQUIVALENT) = 1.75 TIMES THE MATURE HEIGHT OF THE TREE
  - FOR CLASS H SITES (OR EQUIVALENT) = 1.0 TIMES THE MATURE HEIGHT OF THE TREE - FOR CLASS S & M SITES (OR EQUIVALENT) = 0.75 TIMES THE MATURE HEIGHT OF THE TREE
  - REMOVAL OF TREES FROM THE SITE CAN ALSO CAUSE SIMILAR PROBLEMS. HOLES FROM TREES REMOVED SHOULD BE FILLED WITH SIMILAR SOIL AS ENCOUNTERED ON THE SITE AND COMPACTED AS MENTIONED ABOVE.
- 6. ALL EARTHWORKS OPERATIONS SHALL COMPLY WITH THE AUSTRALIAN STANDARD EARTHWORKS CODE, AS 3798



#### 2/M8 TRUBOLTS-FACH POST 35 MIN EMBED

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SEALE 1:20

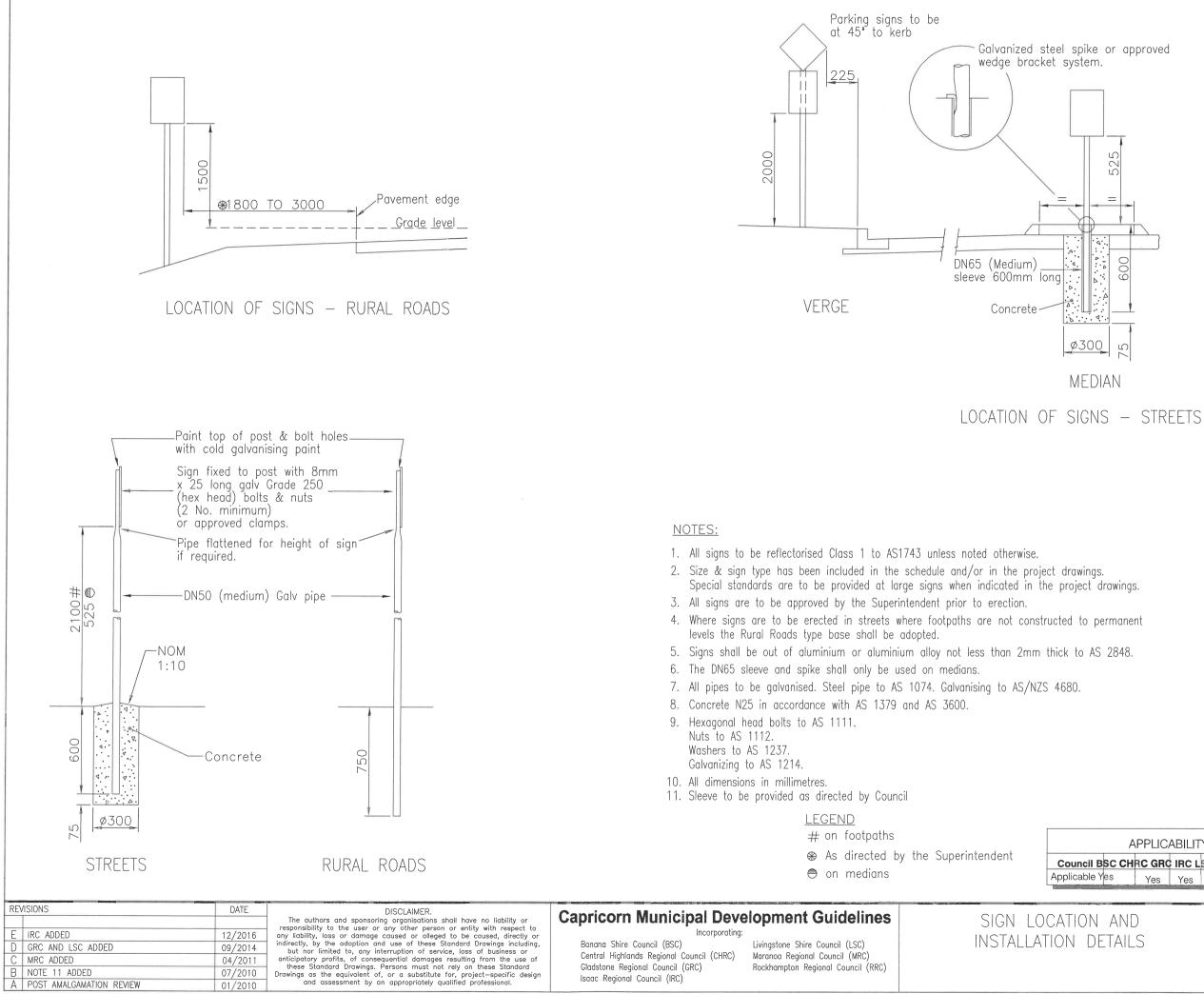
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SOALE						47 Nom	nanby Street n. Queensland 4703	Checked by	SJG	PROPOSED BUS SHELTER FOOTING/TIEDOWN	021.100-103-0
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					Name of Control of Con			23373	19/09/2021	FIXING DETAILS	



TYPICAL FIXING WITH BORED PIER SCALE 1:20

	BUS SHELTER POST BY OTHERS
$\backslash$	-125 THICK SLAB, MIN
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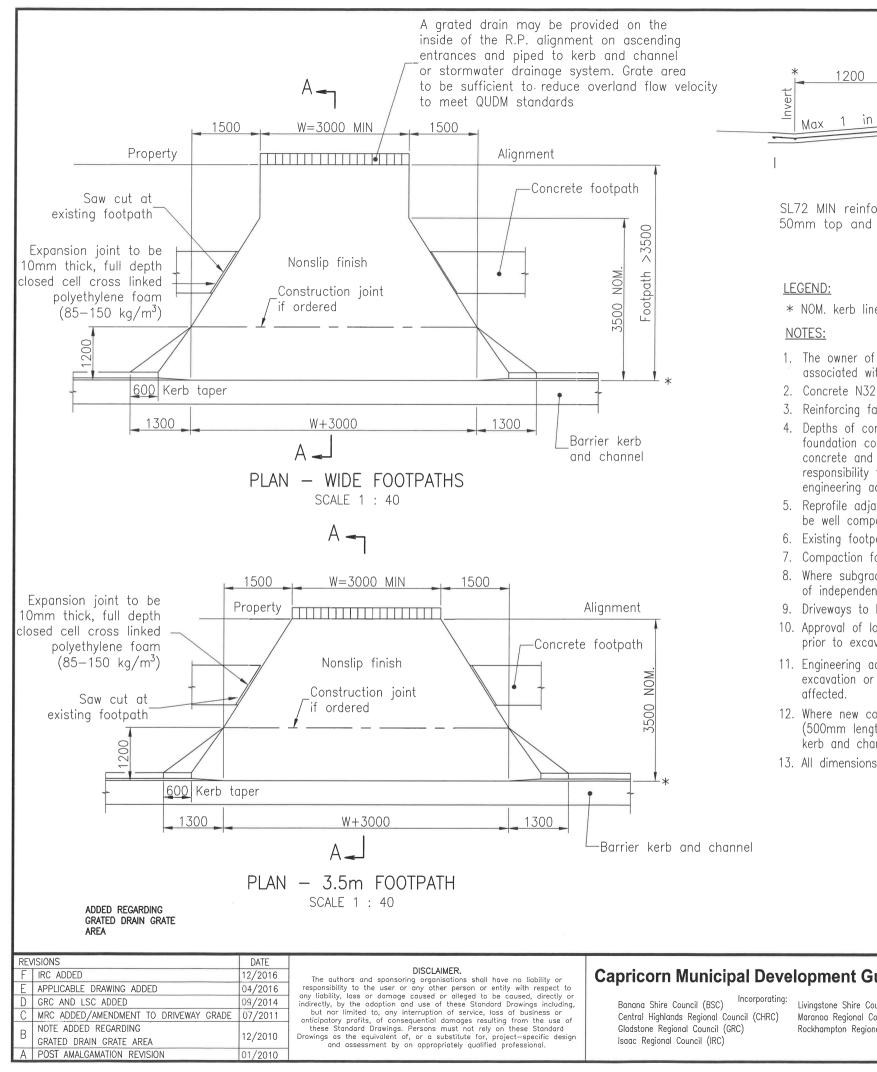
### TYPICAL FIXING TO SHELTER SLAB

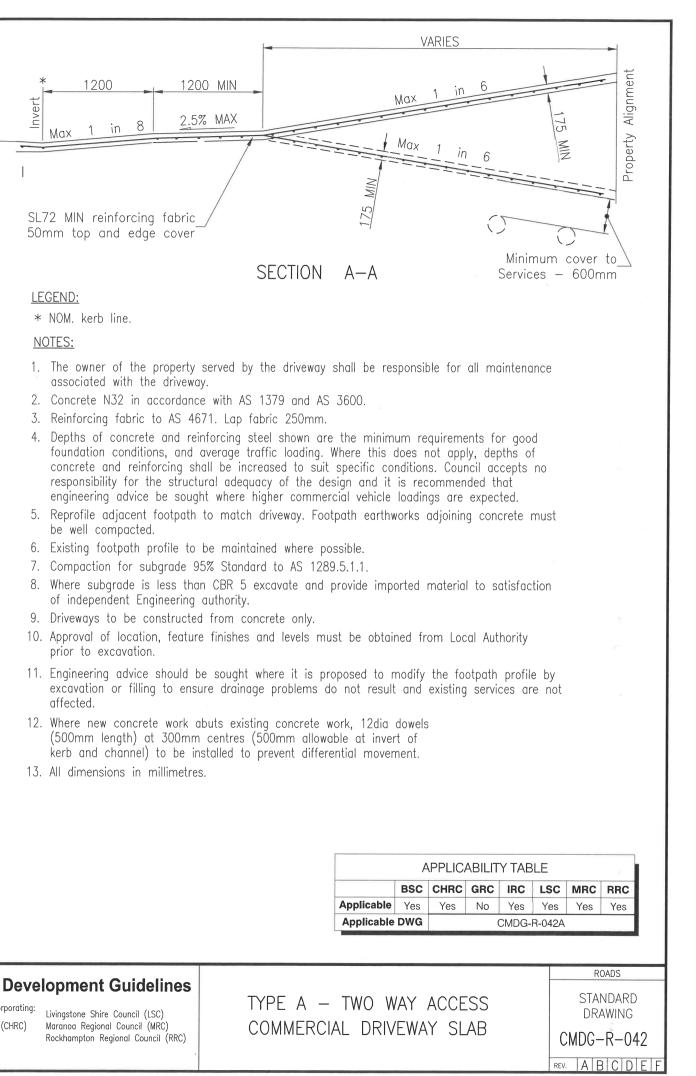


A POST AMALGAMATION REVIEW

01/2010

APPLICABILITY TABLE											
Council BSC CHRC GRC IRC LSC MRC RRC											
Applicable Yes	Yes	Yes	Yes	Yes	Yes	Yes					
	17-20-20-20-20-20-20-20-20-20-20-20-20-20-										
					ROAD	S					
CATION AI	ND			9	STAND	ARD					
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### **Capricorn Municipal Development Guidelines**

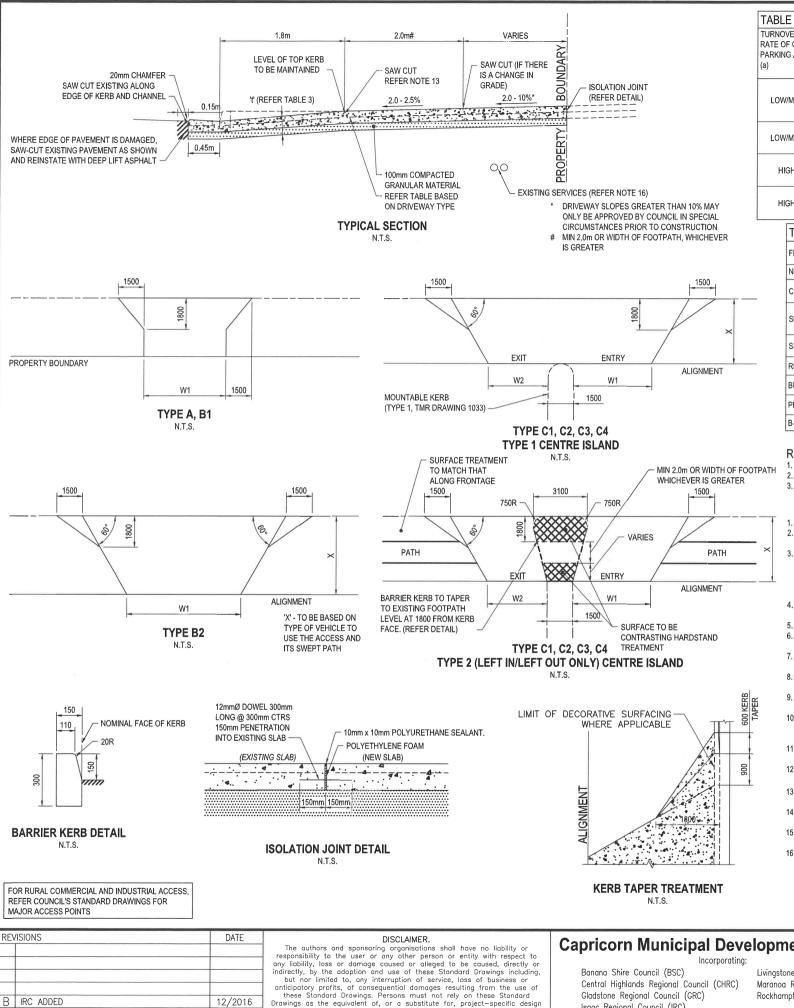


TABLE 1: DF	RIVEWAY	SELEC <sup>-</sup>	FION FO	OR CAR	S ONLY	
TURNOVER RATE OF CAR PARKING AREA	TYPE OF FRONTAGE ROAD	TYPE OF DRIVEWAY FOR THE NUMBER OF SPACES IN CAR PARKING AREA				NOTE
(a)	KUAD	1-25	26-250	251-500	OVER 500 (b)	
LOW/MED	MINOR	A (c)	B2	C1	C3	a) LOW TO MEDIUM PARK RESIDENTIAL, INDUSTRIA RATES ARE LIKELY TO BE FOOD DEVELOPMENTS.
LOW/MED	MAJOR	B1 (6m)	C1	C2	C3	b) CAR PARKING AREAS C ARE TO BE ASSESSED FC ACCESS INTERSECTION.
HIGH	MINOR	B1 (7m)	C1	C2	C3	c) ON MINOR ROADS, RES FOR STREETSCAPE ENHA REQUIREMENTS ARE SAT
HIGH	MAJOR	B2 (7m)	C2	C3	C3	

### TABLE 2: DRIVEWAY SELECTION FOR SERVICES OR OTHER LARGE VEHICLES

FRONTAGE ROAD	MINOR ROAD	MAJOR ROAD <100vpd	MAJOR ROAD	NOTE		
NOMINATED DESIGN VEHICLE (d)		DRIVEWAY TYPE				
CAR AND TRAILER	A (6m)		C1	м		
SERVICE VEHICLE 8.8m	B2 (7m)		C2	PATH DEM		
SINGLE UNIT TRUCK 12.5m	B2 (7m)		C2	ACCE		
REFUSE COLLECTION VEHICLE	B2 (7m)		C2			
BUS	B2 (9m)		C4	]		
PRIME MOVER	B2 (9m)		C4			
B-DOUBLE	B2 (9m)		C4			

### **RELEVANT STANDARDS:**

- AS3600, CONCRETE STRUCTURES
- AS1379, SPECIFICATIONS AND SUPPLY OF CONCRETE
- AS/NZS A4671, STEEL REINFORCING MATERIALS.

#### NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED. CROSSING TYPE, LOCATION AND IF RELEVANT, DIMENSIONS W1 AND
- W2 WILL BE DETERMINED BY COUNCIL. NEW FOOTPATH PROFILE TO VARY WHERE NECESSARY TO MATCH WITH EXISTING CONCRETE FOOTPATHS AND VERGE PROFILES. BASE LAYER MUST BE WELL COMPACTED AND TRANSITION SMOOTHLY TO 17. AND FROM DRIVEWAY, ADJOINING FOOTPATH SURFACES SHALL NOT HAVE A GRADE GREATER THAN 1:8 OR 12.5%.
- PEDESTRIAN REFUGE AREA TREATMENT TO MATCH TREATMENT ADJACENT TO CROSSING.
- NO TRACKS PERMITTED ACROSS FOOTPATH
- CONCRETE PATH SHALL BE CONTINUOUS ACROSS DRIVEWAYS AS PEDESTRIAN AND CYCLISTS SHOULD HAVE RIGHT OF WAY. VARIATION TO THE DESIGNS SHOWN ARE SUBJECT TO APPROVAL
- FROM THE MANAGER ROAD SERVICES OR THIS DELEGATE. CONCRETE GRADE N32 OR BETTER; REINFORCEMENT AS PER TABLE,
- 19. MIN LAP 210 MIN, MIN CLEAR TOP COVER 50mm ALL VERTICAL FACES ARE TO BE FORMED, INCLUDING THE INTERFACE
- WITH THE ROADWAY.
- AND APPROVED BY COUNCIL OFFICER BEFORE DELIVERY OF THE CONCRETE.
- THE THICKNESS OF DECORATIVE SURFACING WHERE APPROVED IS ADDITIONAL TO THE THICKNESS DIMENSIONS 'T SHOWN IN TABLE. 21
- 12. BRASS DISKS EMBEDDED IN KERB AND CHANNEL SHALL NOT BE REMOVED WITH OUT THE PERMISSION OF COUNCIL.
- 13. SAW CUT TO BE 3-6mm WIDE  $x_{4}^{D}$ , WHERE D = DEPTH OF PAVEMENT.
- APPLY BEAD OF POLYSULPHIDE SEALANT TO BOND BREAKING TAPE. 22 FINISH: WOOD FLOAT OR STEEL FOLLOWED BY NYLON BROOM OR
- OTHER APPROVED NON-SLIP SURFACE. 15. SURFACE TREATMENT MAY NOT BE MATCHED BY COUNCIL IF REPAIRS ARE NEEDED TO SERVICES UNDER DRIVEWAY.
- ENSURE MIN. COVER TO SERVICES IN FOOTPATH AND DRIVEWAY IS ACHIEVED TO MEET RELEVANT AUTHORITY STANDARD, A DIAL BEFORE YOU DIG (DBYD) IS TO BE UNDERTAKEN PRIOR TO COMMENCING WORK ON SITE.

#### DISCLAMER. The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adaption and use of these Standard Drawings including, but nor limited to, any interruption of service, loss of business or anticipatory profits, of consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as the equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional. **Capricorn Municipal Development Guidelines** URBAN COMMERCIAL Livingstone Shire Council (LSC) Maranoa Regional Council (MRC) DRIVFWA Rockhampton Regional Council (RRC) Isaac Regional Council (IRC) NEW DRAWING FOR GRO 04/2016

KING TURNOVER RATES ARE LIKELY TO BE GENERATED BY AL AND COMMERCIAL DEVELOPMENTS, HIGH PARKING TURNOVER E GENERATED BY ENTERTAINMENT, TRANSPORT, RETAIL AND FAST

CONTAINING OVER 500 SPACES OR GENERATING MORE THAN 1.000vpd OR THE NEED OF AN APPROPRIATELY DESIGNED CHANNELISED

SIDENTIAL (TYPE A) DRIVEWAYS LESS THAN 6m WIDE ARE ACCEPTABLE ANCEMENT, PROVIDED NORMAL MANOEUVRING AND OUFUING TISFIED

ſΕ

18.

22.

HS OF THE VEHICLES IS REQUIRED TO BE SUBMITTED TO COUNCIL TO IONSTRATE HOW THE VEHICLE WILL PRACTICALLY ACCESS THE PROPERTY

ESS FOR SUCH VEHICLES REQUIRE FORWARD ONLY MANOEUVRE FOR RY AND EXIT OF THE PROPERTY

TABLE 3: LAYOUT DIMENSIONS							
TYPE	W1 (m)	W2 (m)	t (mm)	REINFORCEMENT MESH			
A	6.0	-	130	SL82			
B1	6.0	-	180	SL92			
B2	6.0 - 9.0	-	180	SL92			
C1	4.5	3.5	180	SL92			
C2	5.5	5.0	180	SL92			
C3	7.5	6.0	180	SL92			
C4	9.0	7.5	180	SL92			

ALL WATER VALVES, HYDRANTS, SEWER MANHOLE, TELECOMMUNICATION PITS AND THE LIKE TO BE RELOCATED CLEAR OF PROPERTY ACCESS AT THE EXPENSI OF THE PROPERTY OWNER, THE RELEVANT AUTHORITY IS TO BE CONTACTED SC THAT CONFLICTING SERVICES CAN BE RELOCATED PRIOR TO CROSS OVER CONSTRUCTION

THE PROPERTY OWNER / APPLICANT / CONTRACTOR IS TO TAKE ALL NECESSARY MEASURES TO ENSURE PEDESTRIAN SAFETY INCLUDING BUT NOT LIMITED TO BARRICADES, SAFETY LIGHTING, WARNING DEVICES OR OTHER MEANS OF PROTECTING PUBLIC RISK IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

WHERE NEW CONCRETE WORKS ABUTS EXISTING CONCRETE WORK, 12Ø DOWEI 300mm LENGTH (500mm LENGTH AT INVERT OF KERB AND CHANNEL) AT 300mm CENTRES TO BE INSTALLED TO PREVENT DIFFERENTIAL MOVEMENT (REFER ISOLATION JOINT DETAIL)

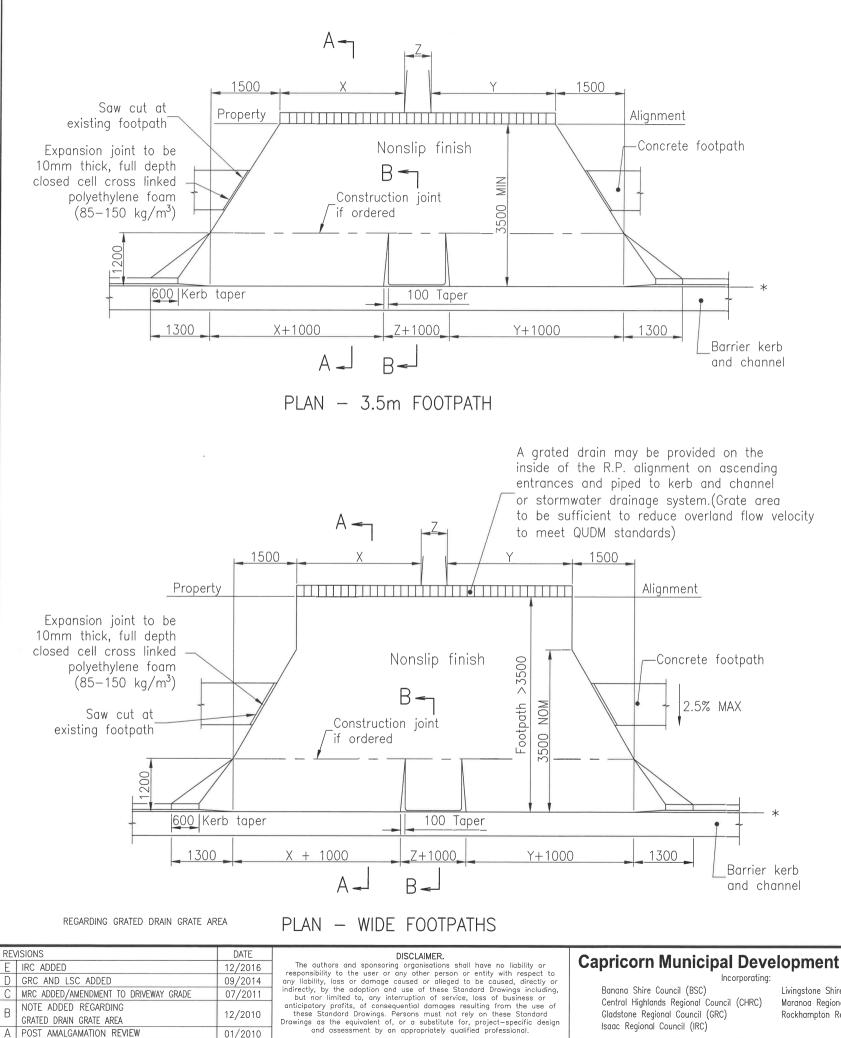
COUNCIL TAKES NO RESPONSIBILITY FOR A VEHICLE SCRAPING WHEN USING A FOOTPATH CROSSOVER OR INVERT CROSSING, THE PROPERTY OWNER/APPLICANT/CONTRACTOR IS TO ENSURE ADEQUATE VEHICLE CLEARANCE IS PROVIDED.

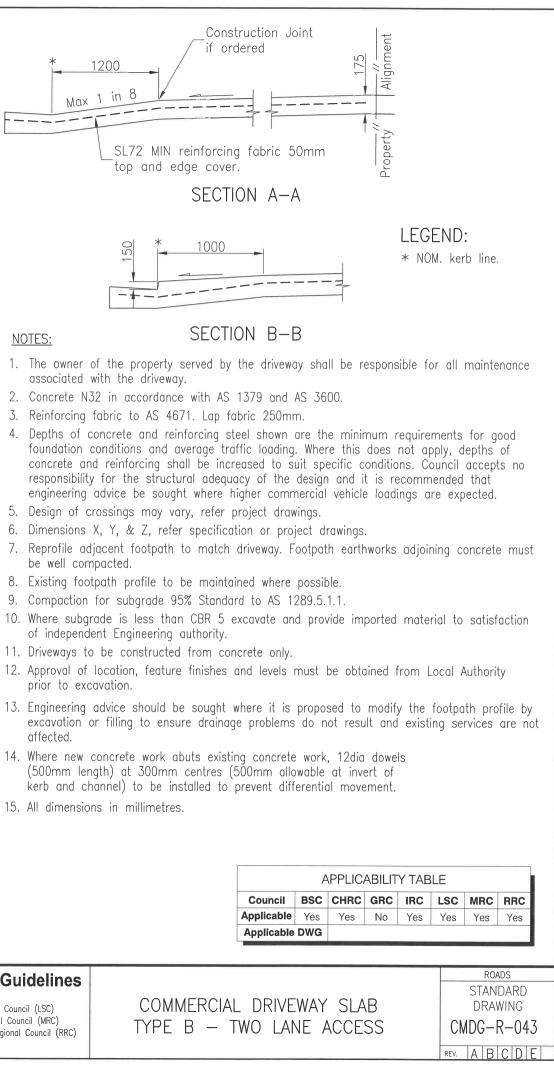
MANDATORY COUNCIL INSPECTIONS ARE REQUIRED PRIOR TO CONSTRUCTION INCLUDING CONCRETE SLAB SET-UP AND REINFORCEMENT, AND FINAL INSPECTION FOLLOWING COMPLETION OF CONSTRUCTION, INCLUDING BACK FILLING TO EDGE AND ENSURING THE NEW DRIVEWAY WILL NOT CAUSE A TRIPPING HAZARD.

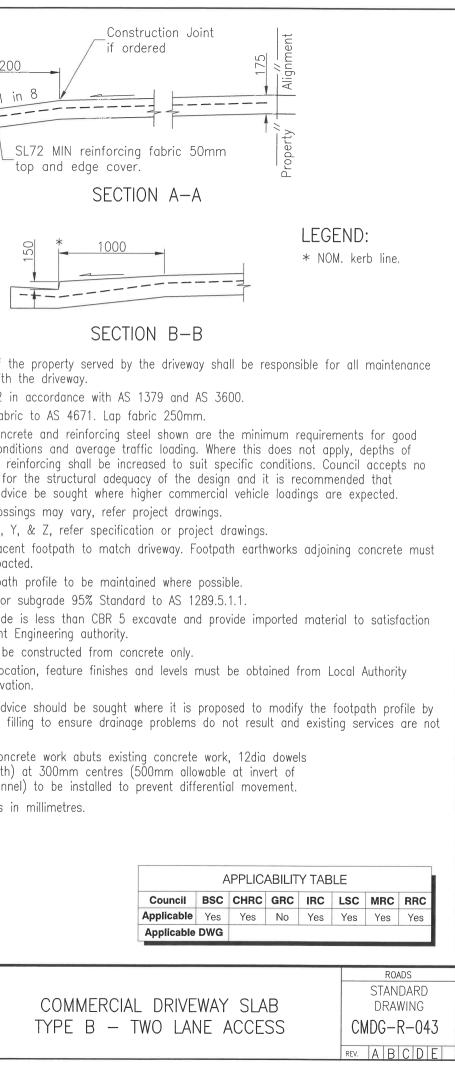
AN APPLICATION TO "CARRY OUT WORKS ON A COUNCIL ROAD" IS TO BE SUBMITTED BEFORE WORKS ARE UNDERTAKEN.

APPLICABILITY TABLE									
RC RRC	MRC	LSC	IRC	GRC	CHRC	BSC			
o No	No	No	No	Yes	No	No	Applicable		
	CMDG-R-042						Applicable DWG		
	-R-042	Applicable DWG							

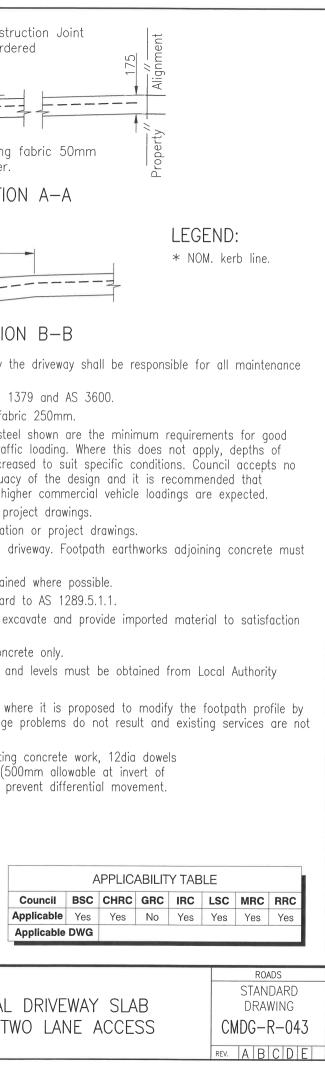
	ROADS			
,	STANDARD			
/INDUSTRIAL	DRAWING			
Ý	CMDG-R-042A			
	REV. A B			







### NOTES:



### **Capricorn Municipal Development Guidelines**

Livingstone Shire Council (LSC) Maranoa Regional Council (MRC) Rockhampton Regional Council (RRC)

# **ASSEMBLY INSTRUCTION**



# FOR CHOOSING FELTON INDUSTRIES

MODULAR BUS SHELTER [Code No: FELMBST]



"This product has been manufactured in Australia to the highest quality standard, guaranteeing proven quality, durability and low maintenance" AUSTRALIAN MADE







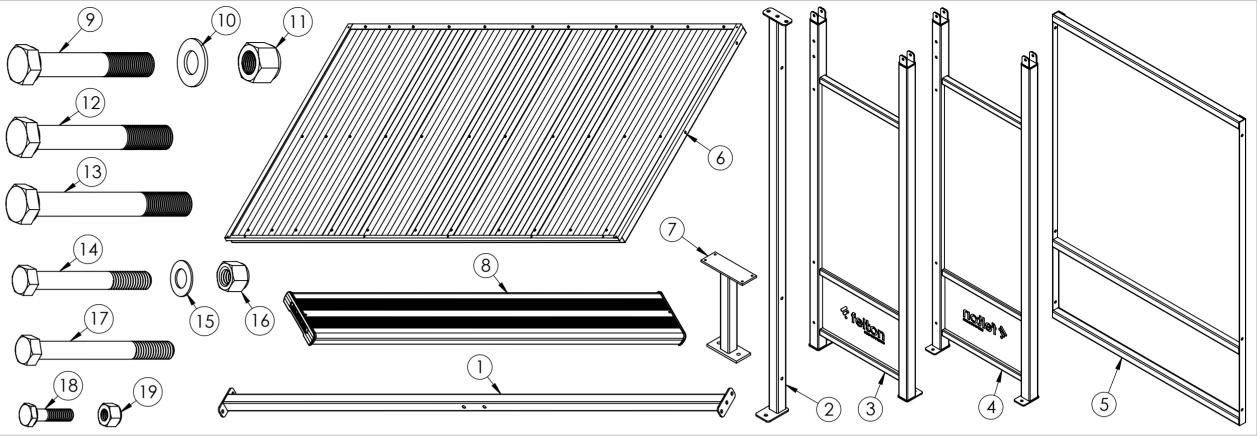
Felton Industries Pty Ltd | ABN: 17 130 687 240

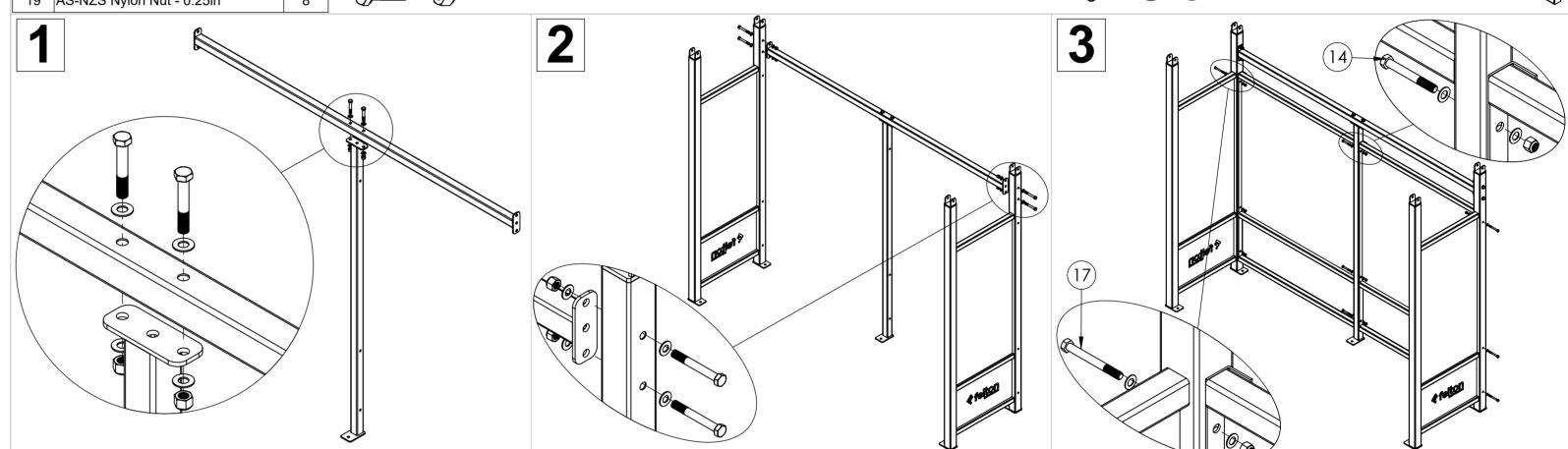
Page 1 of 1



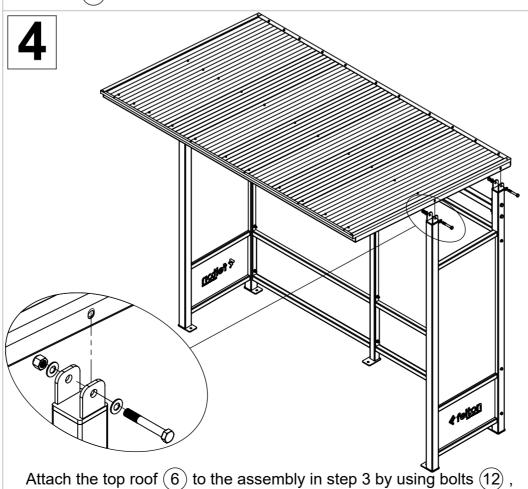
WARNING: This assembly required two or more people as lifting is involved. Please ensure bolts and nuts are only finger-tightened throughout assembly for flexibility in lining up components. Bolt and nuts should be securely tightened in place when instructed to do so. Please check all components are included before proceeding with the assembly

ITEM	DESCRIPTION	Qty	
1	FELMBST_CROSS BAR	1	
2	FELMBST_UPRIGHT BAR	1	
3	FELMBST_LEFT FRAME	1	
4	FELMBST_RIGHT FRAME	1	] (
5	FELMBST_BACK MESH PANEL	2	
6	FELMBST_ROOF	1	
7	FELMBST_LEG SUPPORT	2	
8	FELMBST_SEAT PLANK L1800	1	
9	AS-NZS 2465 Bolt - 0.5in x 3in	2	
10	AS-Flat Washer - 0.5in	20	
11	AS-NZS Nylon Nut - 0.5in	10	
12	AS-NZS 2465 Bolt - 0.5in x 3.5in	4	
13	AS-NZS 2465 Bolt - 0.5in x 4in	4	\27
14	AS-NZS 2465 Bolt - 0.375in x 3in	3	
15	AS-Flat Washer - 0.375in	18	
16	AS-NZS Nylon Nut - 0.375in	9	
17	AS-NZS 2465 Bolt - 0.375in x 3.5in	6	18
18	AS-NZS 2465 Bolt - 0.25in x 1in	8	
19	AS-NZS Nylon Nut - 0.25in	8	
1			



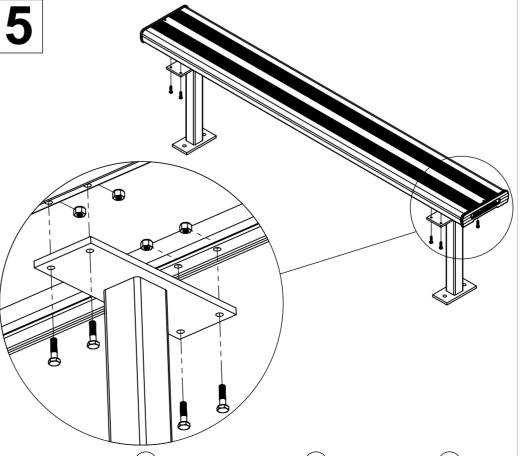


Attach cross bar (1) to upright bar (2) by using bolts (9) , washers (10)and nuts (11) as illustrated.



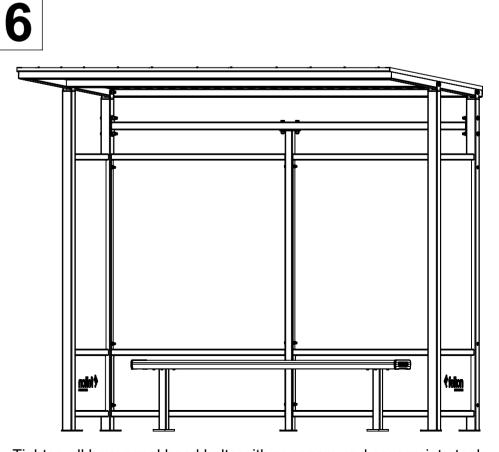
washers (10) and nuts (11) as illustrated.

Attach left frame (3) and right frame (4) to the assembly in step 1 by using bolts (13), washers (10) and nuts (11) as illustrated.



Attach seat plank (8) to two leg supports (7) by using bolts (18) and nuts (19) as illustrated.

Attach two back mesh panels (5) to the assembly in step 2 by using bolts (14), bolts (17) washers (15) and nuts (16) as illustrated.



Tighten all hexagonal head bolts with spanners and appropriate tools. Then attach the frame and seating assemblies to the ground by using M12 dyna-bolts preferably, on each frame lug.