CRACOW ROAD, UNNAMED CREEK 2 FLOODWAY ROAD AND FLOODWAY UPGRADE



DRAWING INDEX

Drawing Number	Date	Drawing Description
001	Nov-23	Project Cover Sheet
002	Nov-23	General Notes
300	Nov-23	Survey Control and Services Plan
400	Nov-23	Roadworks and Setout Plan
500	Nov-23	Pavement Plan
600	Nov-23	Longitudinal Section
700	Nov-23	Typical Cross Sections
800	Nov-23	Annotated Cross Sections Sheet 1

DRAWING INDEX

Drawing Number	Date	Drawing Description
801	Nov-23	Annotated Cross Sections S
802	Nov-23	Annotated Cross Sections S
803	Nov-23	Annotated Cross Sections S
1000	Nov-23	Supplementary Signs and Li
1200	Nov-23	Floodway Details
1600	Nov-23	Limit of Clearing Plan
1700	Nov-23	Temporary Erosion and Sed
1701	Nov-23	Temporary Erosion and Sed

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Last Modified :-	A 20	Issued for Construction 01 Revisions/Descriptions	Drawn	Approved	Date	Dimensions shown in metres except where shown otherwise	quality peop 245 Mary ABN 73 6

LOCALITY PLAN (Not to scale)

Sheet 2 Sheet 3 Sheet 4 Linemarking Details

ediment Control Sheet 1 ediment Control Sheet 2



STANDARD DRAWINGS: ROADWORKS Dwg. Rev. Description E Sign Location and Installation Details CMDG-R-081 B Floodway - Bed Level Crossing CMDG-R-094 DEPARTMENT OF TRANSPORT AND MAIN ROADS - STANDARD DRAWINGS: ROAD FURNITURE D Flood Depth Indicators - Installation 1170 GENERAL EARTHWORKS AND PROPERTY ACCESS E Diversion of Water from Roadway and Table Drains 1178







	(Ch. 76680m - 7 EEK 2 FLOODW	Job No.	CRC00293			
	ER SHEET	Drawing No.	001			
NEERING	GCERTIFICATION (RPEQ)				•	
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		Series No.	1 of 16			

SAFETY IN DESIGN NOTES:

- Potential safety hazards identified by the Designer have been assessed for this project in accordance with Safe Design of Structures - Code of Practices by Safe Work Australia, 2012. Refer to the Safety In Design Report for the potential safety hazards.
- 2. <u>Disclaimer:</u> It must be acknowledged that new and/or different risks may become apparent during each project phase. The designer has ensured, so far as reasonably practicable, that the structure/municipal work is designed to minimise risk to the health and safety of persons involved in construction or use related activities. Further, in Appendix A Safety in Design Risk Register of the **Safety In Design Report**, assumptions may have been made within the different project phases as to how the project and/or project elements will be constructed and maintained. This may differ from the end methods adopted.
- 3. Any person who undertakes alterations, variations or modifications to these design drawings, without consultation and approval from the original or subsequent designer, will assume the duties of a designer and will be held responsible for the safety in design for this project.
- 4. All works must comply with W.H. & S. Act, 2011.

GENERAL NOTES:

- Works shall be undertaken generally in accordance with the relevant CMDG construction specifications except where specific DTMR specification requirements are detailed within these Project specific Drawings. The most current version shall be adopted, unless noted otherwise.
- 2. Works to be measured in accordance with project specific Supplementary Specification for Measurement and Work Operations for Work Items.
- 3. If any archaeological or cultural material is exposed on the work site all works shall cease. The D.E.H.P., Aboriginal Land Council and B.C.C. are to be notified.
- 4. All works are to comply with the requirements of the Environmental Protection Act, 1994.
- 5. Disposal/movement of material in areas of Red Imported Fire Ants are to comply with the D.A.F.F. regulations. Refer the Department's website: *www.daff.qld.gov.au/fireants* for the current information.
- Prior to commencement of work a Risk Management Plan to minimise the chance of spreading Fire Ants is to be completed.
 The positions shown on drawings for public utilities services are based on the B.Y.D.A. information supplied at time of design and are indicative only. Prior to construction the current Service Authority information is to be obtained from B.Y.D.A.
- (website: www.byda.com.au). The position and depth of each service is to be verified by the relevant Service Authority on site before the start of any construction.
 8. Where these drawings make reference to the Administrator or Contract Administrator it shall mean the Superintendent
- managing the works.
- 9. Prior to commencement of work contact the Superintendent if any PSM's are in the vicinity of the work site.
- 10. Order of Precedence of Documents, Ambiguities or Discrepancies The following order of precedence shall apply where there is any ambiguity, discrepancy or inconsistency between the design documents comprising the Contract, with the higher in the list having a higher priority:
 - a. These Project Specific Drawings
 - b. Technical Specifications
 - c. Standard Drawings

The several documents forming the Contract are to be taken as mutually explanatory of one another. If either party discovers any ambiguity or discrepancy in any document prepared for the purpose of executing the Work Under the Contract, that party shall notify the Superintendent in writing of the ambiguity or discrepancy as soon as possible,

- The Scheme Drawings listed on the Project Cover Sheet are to be read as a whole and not in isolation. Any isolated drawing separated from the control set will be considered voided and is not to be used.
- 12. All drawings are to be read in conjunction with the project's specification and all relevant Standard Drawings.
- 13. All drawings are to be read in conjunction with the Abbreviation Table shown.
- 14. <u>Materials and workmanship -</u> Where materials, material components, workmanship and procedures are not specifically described by the Contract, they shall be in accordance with the relevant Australian Standard. Where no Australian Standard is available, other specifications shall be used in the following order of priority:
 - a. manufacturer's recommendations, and
 - accepted industry standards.

At a minimum materials and workmanship shall be the best of their respective kinds and fit for the purpose for which they are intended.

Any product trade names have been used to establish a quality requirement. Written approval to be obtained prior to using any substitutions.

- 15. <u>Dimensions / Levels -</u> All levels and setout points shall be confirmed on site by a registered surveyor prior to construction. The Contractor shall seek clarification from the Superintendent for any discrepancy prior to proceeding with works. Dimensions shall not be scaled from drawings.
- 16. <u>Set Out of Individual Installations -</u> The Contractor shall set out an installation as shown on the Drawings in sufficient detail to identify the location, length and levels of the proposed installation. Once the initial set out is complete the Superintendent will determine the design appropriateness of the set out with regard to the actual site conditions. The Superintendent may direct amendments to the set-out details. Payment for such amendments will be made at appropriate rates in the Schedule of Rates or, where such rates are not deemed by the Superintendent to be appropriate, as determined by the Superintendent. Installations to be set out in accordance with the above requirements include:
 - a. drainage pipes, culverts, slabs and structures
 - b. landscaping
 - c. traffic control
- 17. <u>Existing Services -</u> Locate service prior to commencing works. Services are shown on these drawings for information only. No responsibility is taken for the accuracy or completeness of the information supplied. Take care to protect services from damage, and report any hits or damage to the service authority immediately.

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EROSION AND SEDIMENT CONTROL NOTES:

- 1. During construction all necessary precautions shall be taken to control erosion and downstream sedimentation. Monitor the prevailing weather conditions and protect any downstream construction and gully inlets.
- 2. All sediment control devices, sediment fences, check dams, straw bales, stone traps and entry/exit sediment traps are to be in accordance with the E&SC plans within these project drawings or amended as required by the Contractor's suitably qualified professional.

EARTHWORK NOTES:

- 1. All unsuitable material is to be stripped prior to placement of structural fill.
- 2. All unsuitable material is to be removed in accordance with the specification or as directed by the Superintendent.
- 3. All contaminated soil to be removed in accordance with the specification or as directed by the Superintendent.
- 4. Earthwork quantities include existing road pavement excavated where applicable.
- 5. Earthwork quantities include unsuitable and or contaminated material except where noted otherwise.
- 6. Earthwork quantities in cut are bank (nett) volumes and in fill are compacted volumes.
- 7. Class A1 or B material to comply with the requirements of TMR MRTS04, and specific requirements within these project drawings.

LINEMARKING NOTES:

- 1. All linemarking, signs and traffic devices shall comply with the M.U.T.C.D. current edition.
- 2. Ensure that signage has clear sight distance, otherwise adjust location accordingly.
- 3. Superseded linemarking and signage to be removed.

SERVICE ADJUSTMENT NOTES:

1. Service Authority infrastructure adjustments are to be performed by contractors approved by the relevant service authority.





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	NOTES	Drawing No.	002			
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		Series No.	2 of 16			
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ENGINEERING SURVEY CONTROL

			-	
STATION	EASTING	NORTHING	LEVEL	REMARKS
10	228908.617	7190719.765	261.590	PISP
11	228877.722	7190804.321	257.800	PISP
12	228840.493	7190877.271	256.395	PISP
901	228905.368	7190684.874	262.380	PBMK
902	228889.074	7190794.259	259.050	PBMK
903	228841.414	7190886.632	256.720	PBMK

PERMANENT SURVEY MARKS

		-		
PSM	EASTING	NORTHING	LEVEL	LOCATION
PM32320	227987.370	7187505.508	283.945	PPMK ≈ Ch. 73100m

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PLAN Scale: 1:500









LEGEND

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- Survey Mark and Label

_<mark>WARNING!</mark> −

BEWARE OF UNDERGROUND SERVICES

The location of underground services has been compiled from engineering survey and interpolated from Dial Before You Dig as provided by the Service Authorities. No responsibility is taken for the accuracy of the interpolated information supplied. Ensure all services are accurately located prior to commencement of work.

	(Ch. 76680m - 7 EEK 2 FLOODW	Job No.	CRC00293			
	D SERVICES PL	Drawing No.	300			
NEERING	GCERTIFICATION (RPEQ)					
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		Series No.	3 of 16			
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DESIGN LINE SETOUT (MC90)

			000)					
POINT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH	D.ANGLE
IP 1	76613.271	228915.067	7190659.783	262.777	353°45'00.00"			
TC	76707.949	228904.760	7190753.899	260.880	353°45'00.00"			
IP 2	76733.802	228901.917	7190779.855	259.833		R = -150.000	51.705	19°44'60.00"
СТ	76759.655	228890.471	7190803.324	257.898	334°00'00.00"			
TC	76804.726	228870.713	7190843.834	255.199	334°00'00.00"			
IP 3	76828.291	228860.219	7190865.351	256.115		R = -109.000	47.131	24°46'27.20"
CT	76851.856	228841.674	7190880.489	256.527	309°13'32.80"			
IP 4	76858.996	228836.143	7190885.004	256.527				
TS	76864.371	228831.873	7190888.268	256.527	307°23'32.80"			

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PLAN Scale: 1:500









¬WARNING!

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	(Ch. 76680m - 7 EEK 2 FLOODW	Job No.	CRC00293		
	SETOUT PLAN	Drawing No.	400		
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	SIGNATURE	NO.	DATE	Revision	A
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				Series No.	4 of 16





LEGEND

New pavement to be constructed. Refer Pavement Type 1 Details.

New pavement to be constructed. Refer Pavement Type 2 Details.



PAVEMENT TYPE 1 DETAILS

200mm Overlay, Full width,

200mm Total thickness

Design Subgrade CBR 2 (soaked)

New pavement to be constructed

Imported Unsealed Pavement Material **

New concrete floodway to be constructed. Refer Standard Drawing CMDG-R-094

PAVEMENT TYPE 2 DETAILS

New pavement to be constructed (Ch. 76728.500 - 76788.500m & Ch. 76812.500 - 76832.500m) 200mm Stabilised Base, Full Width,

Imported Unsealed Pavement Material **

Insitu stabilised, GB binder (Cement/Fly Ash)

Target UCS value 1 - 2 MPa at 7 Days. Contractor to

undertake additive testing to confirm percentage of stablising agent by mass. A nominal 3% by mass used for estimating purposes only.

Subgrade replacement in cut***

Design Subgrade CBR 2 (soaked)

200mm Total thickness (Excluding Subgrade Replacement)

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All works to be carried out in accordance with the relevant CMDG Construction Specifications.

20 Years

2 (Soaked)

5.1 x 10⁴ DESA

150mm Subgrade replacement, Class A1 or B material per MRTS04. Minimum 4-day Soaked CBR 15. Maximum Swell 1.5%. CombiGrid Composite Geogrid (or approved equivalent) to underside of subgrade replacement, as directed by the Administrator.





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PAVEMENT DESIGN

Design Subgrade CBR:

Design Period:

Design Traffic:

(Lower Order Roads Design Guide)

UNSE	ALED PAVEMEN	F SPECIF
(Lowe	r Order Roads Des	sign Guid

Imported Unsealed Pavement Material to satisfy the following specifications

Grading Coefficient (Gc): Shrinkage Product (Sp): WPI: PI:

Passing 0.075mm Sieve:

CRACOW ROAD UPGF SITE 9 - UN-NAME

		PAVEM
rawn		ENGINE
B Doherty	ENG. AREA	NAME
esigned	- Civil	T Penrose
•		
B Doherty		





TO CRACOW

IFICATION

16 - 34 100 - 240 < 1200 > 7% _ > 15%

¬WARNING! ·

BEWARE OF UNDERGROUND SERVICES

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WARNING! -

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					0 5 10 15 20 25 Scale A - 1 1 1:500	
					0 0.5 1.0 1.5 2.0 2.5 Scale B	
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SHIRE OF OPPORTUNITY

ENG. AREA B Doherty Civil T Penrose Designed

NAME

Drawn

B Doherty



—Make smooth connection to existing grid.

	(Ch. 76680m - REEK 2 FLOODV	Job No.	CRC00293		
	L SECTION	Drawing No.	600		
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	(Ch. 76680m - 7 REEK 2 FLOODW	Job No.	CRC00293					
	SECTIONS	Drawing No.	700					
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				Series No.	7 of 16			

DATUM RL 259.400	7 in 2% 1 in 4 4%		1% 1 in 4 0% 1 in 2	DATU
DESIGN LEVEL	260.722 + 260.439 + 260.539 + 260.777 +	260.932	260.963 + 260.670 + 260.670 + 260.670 + 261.499 +	DES
EXISTING LEVEL	260.722 20 260.750 20 260.820 20 260.857 20	260.903 20	260.904 20 260.935 20 261.198 20 261.499 20	EXIS
OFFSET	-6.789 -6.222 -5.222 -4.822 -3.869 26 26 26	0.000 20	3.250 26 4.021 26 5.421 26 7.077 26	OFF
		CH. 76705.5		
Existing surface level	$-\frac{1}{10}$ and 4%	. 0	.5% 1 in 4 0% 1 in 2	
DATUM RL 259.500	7 in 2 0% 1 in 4 4%		1.5% 1 in 4 0% 1 in 6	DATU
DESIGN LEVEL	261.146 + 260.557 + 260.657 + 260.895 +	261.043	261.026 + 260.721 + 260.721 + 260.721 + 261.522 +	DES
EXISTING LEVEL	261.146 2 260.982 2 260.847 2 260.793 2 260.832 2	261.008 2	260.975 2 261.198 2 261.579 2 261.579 2 261.522 2	EXIS
OFFSET	-7.217 2 -6.038 2 -5.038 2 -4.638 2 -3.685 2	0.000 2	3.250 2 4.067 2 5.467 2 5.467 2 7.068 2	OFF
		H. 76700.00		
	1 10 - 471	4% 4%	1	
DATUM RL 259.900	7 in 25.6% 1 in 4.74	470 470	1 in 6.149.1% TIM	DATU
DESIGN LEVEL	261.518 + 261.004 + 260.949 + 261.008 + 261.209 +	261.305 +	261.217 + 261.062 + 261.084 + 261.751 +	DES
EXISTING LEVEL	261.518 2 261.493 2 261.141 2 261.134 2 261.134 2	261.283	261.266 2 261.285 2 261.710 2 261.751 2 261.751 2	EXI
OFFSET	-5.761 -4.733 -3.333 -2.379	00000	2.187 3.140 3.540 4.540 5.875 5.875	OFF
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	1 in 5.5% in 8.0	5 4% 4%	3.1% 1 in 3.41	
DATUM RL 260.100				DATU
DESIGN LEVEL	261.467 261.287 261.256 261.375	261.443	261.377 261.407 261.407 261.700	DES
EXISTING LEVEL	261.467 261.287 261.256 261.256	261.442	261.445 261.407 261.407 261.700 261.700	EXI
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257.546 257.646 257.884	258.045	258.162 257.987 257.887 257.887	258.803
258.615 258.538 258.355	258.571	258.552 258.801 258.944 259.010	258.803
-5.358 -4.958 -4.004	0.000	3.250 3.950 4.350 5.350	7.182

-5.602 258.399 258.160 -5.202 259.031 258.260 -4.249 259.030 258.498 -4.249 259.030 258.498 -4.249 259.233 258.498 -5.202 259.244 258.668 -5.200 259.244 258.668 -5.300 259.244 258.668 -5.340 259.257 258.625 -5.340 259.212 258.525 5.340 259.185 258.525 7.088 259.339 259.339	1 in 4	4% 4%	1 in 4 0% 1 in 2	
	258.160 - 258.260 - 258.498 -	258.668 -	258.798 - 258.625 - 258.525 - 258.525 -	259.399 -
-5.202 -5.202 -4.249 0.000 3.250 3.940 4.340 5.340 5.340 7.088	259.031 259.031 259.030	259.244	259.334 259.257 259.212 259.185	259.399
	-5.202 -5.202 -4.249	0.00	3.250 3.940 4.340 5.340	7.088

CH. 76750.700

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Existing surface level		4				<u> </u>	
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DATUM RL 254.400	256.744	255.499	255.499	255.977	256.055	256.723	
EXISTING LEVEL	256.744 25	256.632 25	256.537 25 256.476 25 256.263 25	256.259 25	256.214 25 256.416 25 256.527 25		
OFFSET	-8.316 256	-5.827 256					
		-5.8	-4.827 -4.427 -3.474	00000	3.250 3.980 4.380 5.380	7.282	
				CH. 76781	.000	0	
		1 in 2 00	% 1 in 4	4%	2.4% 1 in 4 0%	1112	
DATUM RL 254.500	256.807	255.590	255.590 255.690 255.929	256.067	256.146 255.964 255.864	256.847	
EXISTING LEVEL	256.807 25	256.698 25	256.596 25 256.535 25 256.338 25	256.355 25	256.294 25 256.496 25 256.607 25		
OFFSET	-8.240 25	-5.805 25	-4.805 25 -4.405 25 -3.452 25	0.000 25	3.250 25 3.979 25 4.379 25		
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DATUM RL 256.300	258.297	257.371	257.709	257.867	257.981 257.805 257.705	258.731	
EXISTING LEVEL							
	5 258.297		2 258.387 2 258.387 2 258.203	0 258.392	258.320 258.569 258.569 258.711		
OFFSET	-8.145	-6.292 5.202	-3.232 -4.892 -3.939	0.000	3.250 3.952 4.352	7.405	
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	SITE 9 - UN-NAMED CREEK 2 FLOODWA ANNOTATED CROSS SECTIONS SHEET								Drawing No.	801
	SHIRE				ENGINEERING CERTIFICATION (RPEQ)					
		SHIPE OF OPPOPTUNITY	B Doherty	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Revision	A
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YMPIE, QLD, 4570 Ph: 0477 322 555	COPYRIGHT The contents and information contai copied or reproduced in whole or pa	ined in this document are the copyright of CRC. This drawing may not be used art for any purpose other than the consent by which it is supplied by CRC.	e e						Series No.	9 of 16

CROSS SECTIONS



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TUM RL 253.700	-								
ESIGN LEVEL	סרי סרט	255.300 -	255.300 - 255.308 -	255.326 -	255.399 -	255.464 -	255.278 - 255.178 -	255.178 -	255.813 -
KISTING LEVEL	סרי סרי	256.124	255.987 255.885	255.666	255.667	255.699	255.751 255.779	255.825	255.813
FFSET		-1.02Z -5.907	-4.907 -4.507	-3.637	0.000	3.250	3.991 4.391	5.391	6.661

CH.	76792.500
	10102.000



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DATUM RL 253.400						
DESIGN LEVEL	255.055 -	255.076 - 255.084 -	255.101 -	255.179 -	255.244 - 255.259 - 255.267 -	255.267 - 255.451 -
EXISTING LEVEL	255.055	255.090 255.015	255.104	255.203	255.292 255.337 255.362	255.426 255.451
OFFSET	-5.869	-5.167 -4.767	-3.898	0.000	3.250 3.991 4.391	5.391 5.758

DATUM RL 253.400	
DESIGN LEVEL	
EXISTING LEVEL	
OFFSET	

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.983

254.

-9.829

OFFSET	

DATUM RL 253.500

DESIGN LEVEL

EXISTING LEVEL

OFFSET

DATUM RL 253.500

DESIGN LEVEL

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Scale A

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except where shown otherwise

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255.056	255.100	220.022 255.005	0000	טבב יוי	717.007		255.310	255.355 255.380	255.443 255.470	
-5.824	-5.172	-4.//2			000.0		3.250	3.991 4.391	5.391 5.796	

CH. 76800.700

CH. 76800.500

2%		2%	0	%
255 DR4 -	255.102 -	255.179 -	255.244 - 255.259 - 255.267 -	255.267 - 255.404 -
о л л 013	255.126	255.182	255.246 255.292 255.319	255.385 255.404
-4 766 	-3.887	0.000	3.250 3.991 4.391	5.391 5.664

CH. 76800.000

00	%	2%	2%	3.4%	
255.208 - 255.078 -	255.078 + 255.086 + 255.103 +	255 179 -	2000 - 2000	255.219 -	255.148
255.208 255.270	255.340 255.354 255.336	255.338	250.000 266 200	255.167	255.148
-6.341 -6.080	-5.080 -4.680 -3.811		3 2ED	3.991	6.093

CH. 76796.500

						└─ Design surface	lev	el		
Existing surface level	٦									0
		2%			3%	3%	4%	<u>, 0,</u>	% 1 in	-
				ſ		l	1			
DATUM RL 253.200										
DESIGN LEVEL	0E 4 070	- Ø/Ø.407	255.061 -	255.079 -	обб 100 -		255.296 -	255.268 - 255.252 -	255.252 -	255.821 -
EXISTING LEVEL	0E1 070	6/8/8/2	254.287	254.366	055 331		255.631	255.709 255.741	255.800	255.821
OFFSET	000 11	- 14.039	-4.899	-3.989			3.250	3.965 4.365	5.365	6.504

CH. 76804.726

CH. 76804.500

		2%		2.9% 2.9%	<u>3.4%</u> 0'	% 1 in 2
DATUM RL 253.200						
DESIGN LEVEL	254.880 -	755 A61 -	255.079 -	255.196 -	255.292 - 255.267 - 255.254 -	255.254 - 255.830 -
EXISTING LEVEL	254.880	751 210	254.275	255.327	255.635 255.697 255.721	255.780 255.830
OFFSET	-13.944	C08 1	-4.032	0.000	3.250 3.966 4.366	5.366 6.518

2.2% 2% 0% in 2 2.2% 2% DATUM RL 253.300 255.252 -255.266 -255.274 -255.274 -255.274 -255.560 -255.075 255.092 943 DESIGN LEVEL 254 254.942 255.056 255.393 255.435 255.460 255.524 255.560 943 250 EXISTING LEVEL 254 55. .369 -4.800 -3.922 OFFSET 3.250 3.985 4.385 5.385 5.956 0.000 ~

CH. 76801.608

¬WARNING! ·

BEWARE OF UNDERGROUND SERVICES

The location of underground services has been compiled from engineering survey and interpolated from Dial Before You Dig as provided by the Service Authorities. No responsibility is taken for the accuracy of the interpolated information supplied. Ensure all services are accurately located prior to commencement of work.

					Scales (sheet size A1)	
					-	
					0 1.0 2.0 3.0 4.0 5.0 Scale A	
					-	
						quality pe
Α	Issued for Construction				Dimensions shown in metres	245 Ma
20	.01 Revisions/Descriptions	Drawn	Approved	Date	except where shown otherwise	ABN 7





CROSS SECTIONS Scale A

CH. 76808.500

		2%	3.9%	3.9%	1 in 7.04 C	1m2
DATUM RL 253.300						
DESIGN LEVEL	254.880 -	255.095 -	255.114 -	255.274 -	255.403 - 255.304 - 255.248 -	255.248 - 255.909 -
EXISTING LEVEL	254.880	254.824	255.042	255.362	255.636 255.762 255.835	256.009 255.909
OFFSET	-15.774	-5.022	-4.071	000.0	3.250 3.942 4.342	5.342 6.664
	•					

CH. 76812.500

DATUM RL 253.600		3%2	2% <u>4.9%</u>	4.9%	1 in 4 09	%
DESIGN LEVEL	255.090 -	255.183 - 255.191 -	255.211 -	255.417 -	255.577 255.410 255.310	255.310 -
EXISTING LEVEL	255.090	255.535 255.580	255.567	255.539	255.702 255.816 255.872	256.012
OFFSET	-8.671	-5.557 -5.157	-4.158	0.000	3.250 3.919 4.319	5.319

CH.	76814.108

DATUM RL 254.000	7 <i>in</i> 9% 8.2% 5.3% 5.3%		14 0	%
DESIGN LEVEL	255.415 - 255.152 - 255.185 - 255.268 - 255.292 -	255.666	255.501 + 255.401 +	255.401 +
EXISTING LEVEL	255.415 255.415 255.566 255.611 255.586	255.718	255.810 255.866	256.006
OFFSET	-7.138 -6.612 -5.212 -4.193 0.000	3.250	3.910 4.310	5.310









NAME

T Penrose

	(Ch. 76680m -	ר)	Job No.	CRC00293	
AMED CREEK 2 FLOODWAY CROSS SECTIONS SHEET 3				Drawing No.	802
ENGINEERING	G CERTIFICATION (RPEQ)		Revision	۸
NAME	SIGNATURE	NO.	DATE		A
Penrose 24087 06/11/23		06/11/23			
			Series No.	10 of 16	

¬WARNING! −

BEWARE OF UNDERGROUND SERVICES

The location of underground services has been compiled from engineering survey and interpolated from Dial Before You Dig as provided by the Service Authorities. No responsibility is taken for the accuracy of the interpolated information supplied. Ensure all services are accurately located prior to commencement of work.

Existing surface level –

	7 in 20% 1 in 4	6%
DATUM RL 254.700		
DESIGN LEVEL	256.185 - 255.800 - 255.800 - 255.900 - 256.163 -	
EXISTING LEVEL	256.185 256.191 256.201 256.207 256.210	
OFFSET	-7.471 -6.699 -5.299 -4.245	

		1 in 2	0%	1 in 4		6%
DATUM RL 254.100						
DESIGN LEVEL	712 220	- 1°C/.0°C2 - 755 163 -	255.163 -	255.263 - วรร รวค -	000.000	
EXISTING LEVEL		107.002 773	255.720	<u>ю</u> г	100.003	
OFFSET		-1.882 6 705	-0.705		007.4	

	7 in 20% 1 in 4.89	6% 6%	1 in 4 0% 1 in 2
DATUM RL 254.000			
DESIGN LEVEL	255.569 - 255.100 - 255.100 - 255.182 - 255.397 -	255.652 -	255.847 - 255.686 - 255.586 - 255.586 - 255.284 -
EXISTING LEVEL	255.569 255.659 255.695 255.664 255.615	255.752	255.762 255.859 255.920 256.070 256.224
OFFSET	-7.643 -6.705 -5.705 -4.250	0.000	3.250 3.896 4.296 5.296 6.573

	7 in 20% 1 in 5.52 6%
DATUM RL 254.100	
DESIGN LEVEL	255.537 - 255.104 - 255.104 - 255.176 - 255.367 -
EXISTING LEVEL	255.537 255.621 255.702 255.671 255.598
OFFSET	-7.570 -6.704 -5.304 -4.250

2:44pm							Scales (sheet size A1)	
							_	
2023								
, 10,							- Scale A - 1.0 2.0 3.0 4.0 5.0	
∧oV -							-	
ied :-							-	
Modified	A	Issued for Construction	l					quality peop
Last I	20	01	Revisions/Descriptions	Drawn	Approved	Date	Dimensions shown in metres except where shown otherwise	245 Mary ABN 73 6



CH. 76839.900



CH. 76820.000

CH. 76817.318



CH. 76816.700



	Design surface level
	8.5% 9.4% 0.1% / 0.1% 1 in 4.38 1.9%
DATUM RL 255.300	
DESIGN LEVEL	256.351 - 256.351 - 256.453 - 256.529 - 256.529 - 256.526 - 256.526 - 256.709 - 256.709 - 256.709 - 256.709 - 256.709 -
EXISTING LEVEL	256.351 256.351 256.436 256.453 256.454 256.454 256.614 256.614 256.709 256.709 256.688
OFFSET	-4.298 -4.298 -2.898 -2.100 0.000 1.871 1.871 1.871 1.873 3.073 4.073

CH. 76859.000

	2.8% 1 in 5.04	2.1% 2.1% 9.1% 0.6%
DATUM RL 255.100		
DESIGN LEVEL	256.318 - 256.195 - 256.195 - 256.223 - 256.266 -	256.527 - 256.576 - 256.508 - 256.434 - 256.600 -
EXISTING LEVEL	256.318 256.318 256.326 256.370 256.417	256.545 256.581 256.583 256.583 256.597 256.600
OFFSET	-5.369 -5.123 -4.123 -3.723	0.000 2.352 3.092 3.492 4.492

CH. 76852.318

	2.4% 1 in 4.87	2.2% 2.2% 1 in 8.820.5%	
DATUM RL 255.100			
DESIGN LEVEL	256.318 - 256.182 - 256.206 - 256.283 - 256.463 -	256.527 - 256.580 - 256.496 - 256.424 -	256.596 -
EXISTING LEVEL	256.318 256.327 256.358 256.370 256.415		256.596 256.596
OFFSET	-5.452 -5.180 -4.180 -3.780	0.000 2.386 3.121 3.521	4.874 4.874

CH. 76851.856

	7	6% 6%	1 in 4 0%
	7 _{in 20%} 1 in 4		
DATUM RL 254.800			
DESIGN LEVEL	256.188 - 255.804 - 255.904 - 255.904 - 255.904 -	256.419 -	256.612 - 256.450 - 256.350 - 256.350 - 256.527 -
EXISTING LEVEL	256.188 256.193 256.203 256.210 256.212	256.400	256.400 256.428 256.446 256.489 256.527
OFFSET	-7.453 -6.686 -5.286 -4.234	0.000	3.240 3.887 4.287 5.287 5.640

CH. 76840.000

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CROSS SECTIONS

		ACOW RO SITE 9 -	Job No.	CRC00293				
		ANNOT	Drawing No.	803				
	Drawn		ENGINEERIN	G CERTIFICATION (RPEQ)			
	B Doherty	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Revision	A
	Designed	Civil	T Penrose	Ale	24087	06/11/23		
ed,	B Doherty						Series No.	11 of 16





SIGN SCHEDULE

							SIGN [DETAILS NEW SUPPORT DETAILS NEW FOOTING DETAILS																
CHAINAGE (M)	POSITION	SIGN DESCRIPTION	SIGN TYPE	WORK DESCRIPTION	WIDTH (mm)	HEIGHT (mm)	AREA (m ²)	OFFSET FROM CARRIAGEWAY (mm)	HEIGHT ABOVE CARRIAGEWAY (mm)	TYPE	No.	SPACING (mm)	No. OF BRACKETS	TYPE	No.	SPACING (mm)	DIMENSION (mm) NB	MATERIAL	POST LENGTH 1 (mm)	POST LENGTH 2 (mm)	H SLEEVE LENGTH (mm)	SLEEVE SIZE (mm)	DIA. (mm)	DEPTH (mm)
76630	LHS	Warning, floodways	W5-7-1B	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
76630	LHS	Warning, "NEXT 400m"	W8-17-2_400B	Install New	750	500	0.375					-		-		Mount with W5-7	'-1B		•					<u> </u>
76710	LHS	Guide, "Road Subject to Flooding"	G9-21-1	Install New	2150	800	1.72	2000	1500	1	3	350	6	CHS Steel	2	1500	50	C350	3500 C.T.S	3500 C.T.S	-	-	300	300
76760	LHS	Warning, grid	W5-16B	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
76760	LHS	Warning, "One lane"	W8-16B	Install New	750	500	0.375									Mount with W5-2	16B		•					
76797	LHS	Guide, Flood depth marker	G9-22-1A	Install New									Refer Details in I	TMP Std Dra 1	170 Elood [Dopth Indicators	Installation							
76801	RHS	Guide, Flood depth marker	G9-22-1A	Install New													- Installation							
76840	LHS	Regulatory, No Overtaking or Passing	R6-1A	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
76858.8	LHS	Hazard, width marker	D4-3LA (L)	Install New	225	450	0.10	-	500	1	0	0	0	CHS Steel	1	-	50	C350	2000 C.T.S	-	-	-	300	750
76858.8	RHS	Hazard, width marker	D4-3LA (R)	Install New	225	450	0.10	-	500	1	0	0	0	CHS Steel	1	-	50	C350	2000 C.T.S	-	-	-	300	750
76861.6	RHS	Hazard, width marker	D4-3LA (L)	Install New	225	450	0.10	-	500	1	0	0	0	CHS Steel	1	-	50	C350	2000 C.T.S	-	-	-	300	750
76861.6	LHS	Hazard, width marker	D4-3LA (R)	Install New	225	450	0.10	-	500	1	0	0	0	CHS Steel	1	-	50	C350	2000 C.T.S	-	-	-	300	750

C90)



Issued for Construction					Scales (sheet size A1)	quality peop
	Revisions/Descriptions	Drawn	Approved	Date	Dimensions shown in metres except where shown otherwise	245 Mary ABN 73 6

Offset from Carriageway

SIGN SETOUT

No.	TYPE	EXAMPLE	WIDTH	DESCRIPTION
LONG	ITUDINAL LINES			
С	Barrier Line (Single)		100mm	Continuous (on floodway)





	(Ch. 76680m - 7 REEK 2 FLOODW	Job No.	CRC00293		
	D LINEMARKING	Drawing No.	1000		
NEERING	GCERTIFICATION (RPEQ)				
	SIGNATURE	NO.	DATE	Revision	A
	The	24087	06/11/23		
				Series No.	12 of 16



Rock Size (m)	Rock Mass (kg)	Percentage o larger tha
0.55	250.0	0%
0.40	100.0	50%
0.20	10.0	90%







DESIGN LINE MC90

CHAINAGE	OFFSET LHS	OFFSET RHS						
76680	4.245	4.180						
76690	6.602	6.596						
76700	7.561	7.271						
76710	7.475	6.715						
76720	8.189	6.438						
76730	7.741	7.048						
76740	8.189	7.037						
76750	7.893	7.923						
76760	8.399	7.622						

DESIGN LINE MC90

CHAINAGE	OFFSET LHS	OFFSET RHS						
76770	8.323	7.918						
76780	8.569	7.659						
76790	7.989	6.757						
76800	9.829	5.886						
76810	16.293	6.961						
76820	8.133	6.598						
76830	7.866	6.084						
76840	7.749	5.960						
76850	6.067	5.345						

					Scales (sheet size A1)	
					0 5 10 15 20 25 Scale A	
						quality peo
А	Issued for Construction				Diversione eksem in metree	
20	.01 Revisions/Descriptions	Drawn	Approved	Date	Dimensions shown in metres except where shown otherwise	245 Mary ABN 73 (













- Tree to be removed
- Limit of clearing
- Survey Mark and Label

	(Ch. 76680m - 7 REEK 2 FLOODW	Job No.	CRC00293		
	RING PLAN	Drawing No. 1600			
NEERING	G CERTIFICATION (RPEQ)				•
	SIGNATURE	Revision	A		
	Alua	24087			
		Series No.	14 of 16		
					11 10



LEGEND



Diversion Bank Silt Fence Geo Log Dirty Water Flow Clean Water Flow Rock Check Dam End of line rock check dam (to act as rock filter dam)

Existing Trees

						Scales (sheet size A1)	
						Scale A 1.250	
							quality peopl
А	Issued for Construction						
20	.01 Revisions/Des	criptions	Drawn	Approved	Date	Dimensions shown in metres except where shown otherwise	245 Mary \$ ABN 73 61
							A Issued for Construction D D D D D D D D D D D D D D D D D D D D D D









	(Ch. 76680m - 7 REEK 2 FLOODV	Job No.	CRC00293						
	DIMENT CONTR	Drawing No. 1700							
NEERING	G CERTIFICATION (RPEQ)				•				
SIGNATURE NO. DATE				Revision	A				
		Series No.	15 of 16						



Dimensions shown in metres

except where shown otherwise

Date

Approved

Drawn

A Issued for Construction

20.01

Revisions/Descriptions













07/2010

01/2010

NOTE 11 ADDED

A POST AMALGAMATION REVIEW



NOTES:

- 1. All signs to be reflectorised Class 1 to AS1743 unless noted otherwise.
- 2. Size & sign type has been included in the schedule and/or in the project drawings. Special standards are to be provided at large signs when indicated in the project drawings.
- 3. All signs are to be approved by the Superintendent prior to erection.
- 4. Where signs are to be erected in streets where footpaths are not constructed to permanent levels the Rural Roads type base shall be adopted.
- 5. Signs shall be out of aluminium or aluminium alloy not less than 2mm thick to AS 2848.
- 6. The DN65 sleeve and spike shall only be used on medians.
- 7. All pipes to be galvanised. Steel pipe to AS 1074. Galvanising to AS/NZS 4680.
- 8. Concrete N25 in accordance with AS 1379 and AS 3600.
- 9. Hexagonal head bolts to AS 1111.
- Nuts to AS 1112.
- Washers to AS 1237.
- Galvanizing to AS 1214.
- 10. All dimensions in millimetres.
- 11. Sleeve to be provided as directed by Council

LEGEND

- # on footpaths ✤ As directed by the Superintendent
- ⊖ on medians

Capricorn Municipal Development Guidelines Incorporatina:

Banana Shire Council (BSC) Central Highlands Regional Council (CHRC) Gladstone Regional Council (GRC)

Livingstone Shire Council (LSC)

SIGN LOC INSTALLAT

Isaac Regional Council (IRC)

Maranoa Regional Council (MRC) Rockhampton Regional Council (RRC)

LOCATION OF SIGNS - STREETS

APPLICABILITY TABLE										
Council	BSC	LSC	MRC	RRC						
Applicable	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
		<u>`</u>				ROAD	S			
CATION						STAND.	ARD			
ION DE	TAIL	S				DRAW	ING			
					CMI	DG-R	-081			
					REV.	ABC	DE			



Isaac Regional Council (IRC)

12/2016

04/2016

ORIGINAL ISS

Downstream

WATERWAY BARRIER WORKS - COMPLIANCE NOTES:

Floodway site to be checked on Queensland Government Spatial Data Layer "Queensland Waterways for Waterway Barrier Works" to determine if

2. The lowest level of the floodway must be installed at the level of lowest point of the natural stream bed (Within the footprint of the crossing.)

the crossing to the edges of the low flow section of the crossing.

The level of the remainder of the crossing must be no higher than the lowest point of the natural stream bed outside of the low flow channel.

APPLICABILITY TABLE									
Council	BSC	LSC	MRC	RRC					
Applicable	Yes	Yes	Yes	No	Yes	Yes	Yes		
Applicable	DWG		(CMDG-I	R-094A				
					ROADS				
			STANDAR						
DODWAY -						DRAWING			
L CRO	SSIN	IG			CMI	DG-R	-094		
					PEV	A R			





shall be constructed at culverts and at intervals not exceeding 120m on grades up to 2%, 60m on grades 2% to 4%, 30m on grades 4% to 8% and 15m on grades over 8% (except in cuttings). They shall have a cross sectional area at least equal to the cross sectional

3. DRAINAGE INTO PRIVATE PROPERTIES, with the cooperation of property owners, is to be discharged into contour banks and behind diversion

Department of Main Roads Manual of Standard Drawings Roads Department of Main Roads Manual of Standard Specifications Roads Department of Main Roads Road Drainage Design Manual

DIVERSION OF WATER	Queensland Governmen Department of Main Roads							
RSION OF WATER FROM WAY AND TABLE DRAINS	Size A3		Drawing No					
	Scales	1178						
	as			Date	?	10/	03	
	shown	Α	В	С	D	Е		