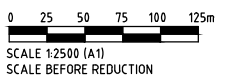


# BALLINA SHIRE COUNCIL TANAMERA WATERWAY MASTERPLAN



LOCALITY PLAN  
SCALE 1:2500 m

DRAWING INDEX	
DRAWING No.	DRAWING TITLE
QC2009-003-DWG-0001	LOCALITY PLAN AND DRAWING INDEX
QC2009-003-DWG-0002	LEGEND AND GENERAL NOTES
QC2009-003-DWG-0100	KEY PLAN
QC2009-003-DWG-0101	GENERAL ARRANGEMENT PLAN
QC2009-003-DWG-0102	GENERAL ARRANGEMENT PLAN
QC2009-003-DWG-0201	TYPICAL SECTIONS AND DETAILS - WATERWAY CHANNEL
QC2009-003-DWG-0202	TYPICAL SECTIONS AND DETAILS - SANDSTONE CROSSING
QC2009-003-DWG-0203	TYPICAL SECTIONS AND DETAILS - DEEP WATER POND
QC2009-003-DWG-0204	TYPICAL SECTIONS AND DETAILS - EXISTING OUTLETS
QC2009-003-DWG-0301	LONGITUDINAL SECTIONS



CAD REF: \PROJECTS\QC2009\BALLINA\_S\QC2009-003\_TANAMERA\_WATERWAY\_MASTERPLAN\DRAWINGS\QC2009-003-DWG-0001.DWG

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D	FD	12.01.24	ISSUED FOR REVIEW			
C	FD	10.01.24	ISSUED FOR REVIEW			
B	NWN	16.10.23	ISSUED FOR REVIEW			
A	NWN	16.10.23	ISSUED FOR REVIEW			



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www.engeny.com.au	PM APPD.		PD APPD.	
	RPEQ		RPEQ No.	




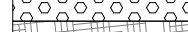








BALLINA SHIRE COUNCIL  
TANAMERA WATERWAY MASTERPLAN  
LOCALITY PLAN AND DRAWING INDEX

ORIGINAL SIZE A1	DWG NO. QC2009-003-DWG-0001	REV. D
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**LEGEND - EXISTING FEATURES**

- 24.0 — 24.0 — CONTOUR LABEL
- CONTOUR MAJOR
- - - - - CONTOUR MINOR

**LEGEND - PROPOSED FEATURES**

-  PAVEMENT PAD
-  ROCK PROTECTION
-  POCKET PLANTED ROCK
-  COMPACTED GRAVEL
-  SANDSTONE BLOCKS
-  PLANTING CANOPY EXTENT
-  PLANTING GROUND COVER EXTENT
-  FLOOD EXTEND
-  REVEGETATION EXTENT
-  GRAVEL ACCESS TRACK
-  COIR MESH
-  COMPENSATORY PLANTING CANOPY AREA

**LEGEND - EXISTING SERVICES**

- — — — — C — — — — — C — COMMUNICATION (UG)
- — — — — D — — — — — D — DRAINAGE PIPE (UG)
- — — — — E — — — — — E — ELECTRICITY (UG)
- — — — — S — — — — — S — SEWER (UG)
- — — — — SW — — — — — SW — STORMWATER (UG)
- — — — — ? — — — — — ? — UNKNOWN SERVICE (UG)
- — — — — W — — — — — W — RECYCLED WATER PIPE (UG)

**GENERAL NOTES**

1. IF ANY ARCHAEOLOGICAL OR CULTURAL MATERIAL IS EXPOSED ON THE WORK SITE ALL WORKS SHALL CEASE. THE DEPARTMENT OF ENVIRONMENT AND HERITAGE PROTECTION (D.E.H.P.), ABORIGINAL LAND COUNCIL AND BALINA SHIRE COUNCIL (B.S.C.) ARE TO BE NOTIFIED.
2. ALL WORKS ARE TO COMPLY WITH THE REQUIREMENTS OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997.
3. DISPOSAL/MOVEMENT OF MATERIAL IN AREAS OF RED IMPORTED FIRE ANTS ARE TO COMPLY WITH THE NSW DPI BIO-SECURITY (FIRE ANT) EMERGENCY ORDER.
4. THE POSITIONS SHOWN ON DRAWINGS FOR PUBLIC UTILITIES SERVICES ARE BASED ON THE DIAL BEFORE YOU DIG (D.B.Y.D.) INFORMATION SUPPLIED AT TIME OF DESIGN AND ARE INDICATIVE ONLY. PRIOR TO CONSTRUCTION THE CURRENT SERVICE AUTHORITY INFORMATION IS TO BE OBTAINED FROM DIAL BEFORE YOU DIG (WEBSITE: WWW.1100.COM.AU OR PHONE 1100). THE POSITION AND DEPTH OF EACH SERVICE IS TO BE VERIFIED BY THE RELEVANT SERVICE AUTHORITY ON SITE BEFORE THE START OF ANY CONSTRUCTION.
5. WHERE THESE DRAWINGS MAKE REFERENCE TO THE ENGINEER, CONSULTING ENGINEER AND OR SUPERINTENDENT IT SHALL MEAN THE SUPERINTENDENT MANAGING THE WORKS.
6. PRIOR TO COMMENCEMENT OF WORK CONTACT BALINA SHIRE COUNCIL'S PRINCIPAL OFFICER (SURVEY) (1300864444) IF ANY PSM'S ARE IN THE VICINITY OF THE WORK SITE.
7. INFORMATION ON THESE DRAWINGS SHALL TAKE PRECEDENCE IF THERE IS ANY DISCREPANCY AND OR CONFLICT BETWEEN THESE DRAWINGS AND STANDARD DRAWINGS. ADVISE THE SUPERVISING ENGINEER IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
8. 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.
9. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT'S SPECIFICATION AND ALL RELEVANT STANDARD DRAWINGS.
10. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE STANDARD DRAWINGS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS THAT SHALL BE ISSUED DURING THE COURSE OF CONSTRUCTION. ANY DISCREPANCY OR VARIATION SHALL BE REFERRED TO THE SUPERVISING ENGINEER BEFORE PROCEEDING WITH WORK.
11. ALL DIMENSIONS IN METRES UNLESS SPECIFIED OTHERWISE.
12. DRAWINGS NOT TO BE USED FOR CONSTRUCTION UNLESS STAMPED "ISSUED FOR CONSTRUCTION"
13. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN PRIOR TO COMMENCEMENT OF WORK.
14. CLASHES, CONFLICTS AND DISCREPANCIES ARE TO BE NOTIFIED TO THE SUPERVISING ENGINEER IMMEDIATELY.
15. ANY ASPECTS REQUIRING CLARIFICATION SHOULD BE DIRECTED TO THE SUPERVISING ENGINEER FOR CONFIRMATION
16. DISPOSAL OF DEBRIS RESULTING FROM SITE CLEARANCE SHALL BE IN ACCORDANCE WITH COUNCIL'S POLICY. COMBUSTION OF ANY MATERIAL SHALL NOT BE PERMITTED ON SITE WITHOUT PRIOR WRITTEN APPROVAL OF COUNCIL.
17. THE CONTRACTOR IS RESPONSIBLE FOR ORGANISING AS CONSTRUCTED SURVEY.
18. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CONSTRUCTION TOLERANCES. ANY WORKS DEEMED NON-ACCEPTABLE SHALL BE RECTIFIED AT THE CONTRACTORS COST.
19. THE CONTRACTOR IS TO ENSURE COMPLIANCE WITH WORKPLACE HEALTH AND SAFETY ACT AND AUSTRALIAN STANDARDS AS 1742, PARTICULARLY IN RESPECT TO WORKS BEING CONDUCTED ON A PUBLIC ROAD, TRAFFIC CONTROL, EXCAVATIONS, TRENCHES AND ENSURING SAFE PUBLIC ACCESS AT ALL TIMES.
20. ALL PEGS AND PROFILES PLACED BY THE CONTRACTOR SHALL BE REMOVED ON COMPLETION OF WORK UNLESS OTHERWISE DIRECTED BY SUPERVISING ENGINEER.
21. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT, AND WHERE APPLICABLE, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT STANDARD OF THE STANDARDS ASSOCIATION OF AUSTRALIA. THE CONTRACTOR SHALL ENSURE THAT FUGITIVE DUST FROM DISTURBED AREAS IS MINIMISED BY A METHOD APPROVED BY THE SUPERVISING ENGINEER.
22. ALL TESTING AND AS CONSTRUCTED SURVEY REQUIRED SHALL BE ARRANGED AND CARRIED OUT BY THE CONTRACTOR AND ALL TEST RESULTS AND SURVEY RECORDS MADE AVAILABLE TO THE SUPERVISING ENGINEER. THE COST OF ALL SUCH TESTING AND SURVEY SHALL BE BORNE BY THE CONTRACTOR.
23. THE PRINCIPAL WILL NOT BE RESPONSIBLE FOR THE SAFE-KEEPING OF ANY OF THE CONTRACTOR'S PLANT, EQUIPMENT, TOOLS, MATERIALS OR OTHER PROPERTY. THE CONTRACTOR MAY PROVIDE, AND PAY FOR, ANY SECURITY FENCING CONSIDERED NECESSARY AROUND ANY OFFICE, WORKSHOP OR STORAGE AREA, SUBJECT TO THE SUPERVISING ENGINEER'S APPROVAL.
24. IF EXISTING FENCING IS CUT OR ALTERED BY THE CONTRACTOR, OR IF THERE IS NO EXISTING SITE FENCING, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY FENCING TO THE SATISFACTION OF THE SUPERVISING ENGINEER DURING THE CONTRACT TO PREVENT UNAUTHORISED ENTRY INTO THE PROPERTY, AND SHALL REINSTATE THE FENCING AND REMOVE TEMPORARY FENCING ON COMPLETION OF THE WORK.
25. CONSTRUCTION WORK CARRIED OUT UNDER THIS CONTRACT ADJACENT TO OR ADJOINING EXISTING WORKS SHALL MAKE SMOOTH JUNCTIONS WITH THE EXISTING WORK.
26. NO CLEARING WORKS SHALL COMMENCE PRIOR TO APPROVAL FROM THE SUPERVISING ENGINEER, WHICH SHALL BE ARRANGED BY THE CONTRACTOR. ALL FELLED TREES SHALL BE CHIPPED AND STOCKPILED ON-SITE WITH MULCH STORED ABOVE TOP OF BANK AS DIRECTED BY THE SUPERVISING ENGINEER.
27. DIVERSION OF WATER AND THE PROTECTION OF WORKS IS THE CONTRACTORS RESPONSIBILITY.
28. NO NOISE OR SMOKE OR OTHER NUISANCE, WHICH IN THE OPINION OF COUNCIL IS UNNECESSARY OR EXCESSIVE SHALL BE PERMITTED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORKS UNDER THIS CONTRACT. SHOULD WORK OUTSIDE CUSTOMARY WORKING HOURS BE APPROVED, THE CONTRACTOR SHALL NOT USE, DURING SUCH PERIOD, ANY PLANT, MACHINERY OR EQUIPMENT WHICH IN THE OPINION OF THE COUNCIL IS CAUSING OR IS LIKELY TO CAUSE A NUISANCE TO THE PUBLIC.
29. GROUND VIBRATION LEVELS, TRANSMITTED FROM OPERATING ITEMS OF PLANT IN THE VICINITY OF PREMISES, SHALL NOT EXCEED LEVELS THAT ARE CLOSE TO THE LOWER LEVEL OF HUMAN PERCEPTION INSIDE THE PREMISE NOR WILL CAUSE STRUCTURAL DAMAGE TO THE BUILDING. PRACTICES AND VIBRATION THRESHOLDS ACCEPTABLE SHALL BE DETERMINED IN ACCORDANCE WITH CURRENT STATUTORY REGULATIONS.
30. THE CONTRACTOR MUST OBTAIN THE SUPERVISING ENGINEER APPROVAL OF MATERIALS PRIOR TO DELIVERY TO SITE.
31. ALL WASTE OR DEMOLISHED MATERIALS SHALL BE DISPOSED OFF SITE TO AN APPROVED SITE. ALL FEES AND

- CHARGES SHALL BE INCLUDED IN THE CONTRACT SUM. CONTRACTOR IS RESPONSIBLE FOR HAULAGE AND APPROPRIATE DISPOSAL OF EXCESS SPOIL LEGALLY OFFSITE.
32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AND COMPENSATION PAYMENTS AS A RESULT OF NON-OBSERVANCE OF THE ABOVE REQUIREMENTS. NO CLAIM BY THE CONTRACTOR WILL BE CONSIDERED BY THE PRINCIPAL.
  33. ALL WATER BODIES TO BE TEMPORARILY FENCED UNTIL PERMANENT ARRANGEMENTS ARE IN PLACE. SAFETY SIGNS, DEPTH INDICATORS AND PERMANENT SAFETY ARRANGEMENTS BY OTHERS.
  34. THE COMPANY'S REPRESENTATIVE SHALL ESTABLISH SURVEY BASELINES AND BENCHMARKS. PRIOR TO THE COMMENCEMENT OF WORK THE CONTRACTOR SHALL VERIFY THE EXISTING SURVEY LEVELS AND AGREE WITH THE COMPANY'S REPRESENTATIVE ANY VARIATION FROM THE LEVELS SHOWN ON THE DRAWINGS.
  35. REFER TECHNICAL SPECIFICATION FOR COMPACTION REQUIREMENTS AND MATERIAL STANDARDS.
  36. SECTION NUMBERS REFER TO THE LAST FOUR NUMBERS OF THE DRAWING NUMBER. IE. REFER DRAWING 0201
  37. SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE SITE CONTRACTOR. REFER ANY DISCREPANCY TO THE COMPANY'S REPRESENTATIVE BEFORE PROCEEDING WITH WORK.
  38. ALL REINFORCEMENT, CONCRETE, CONCRETE MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH AS3600.
  39. REFER ALL DISCREPANCIES TO THE COMPANY'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORKS.
  40. EXISTING SERVICE LOCATIONS ARE INDICATIVE ONLY.
  41. LOCATION OF ALL EXISTING SERVICES TO BE CONFIRMED PRIOR TO CONSTRUCTION AND TREATMENT APPROVED BY COMPANY'S REPRESENTATIVE.

**SURVEY AND SETOUT NOTES**

1. CO-ORDINATE SETOUT PROVIDED ON THESE DRAWINGS ARE BASED FROM ABBOT & MARCO LAND AND ENGINEERING SURVEYORS REF: 23038-1A REFER DRAWING 0100 FOR CONTROL DETAILS. ENGENY TAKES NO RESPONSIBILITY FOR INACCURACIES ASSOCIATED WITH THE PRINCIPAL SUPPLIED SURVEY AND DISCREPANCIES WITH EXISTING GROUND LEVELS.
2. THE LEVEL DATUM FOR WORKS IS AHD (AUSTRALIAN HEIGHT DATUM).
3. THE COORDINATE SYSTEM USED IS GDA94 ZONE 56.

**EROSION AND SEDIMENT CONTROL NOTES**

1. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS FOR THE AREA.

**TOPSOIL AND SUBSOIL AMELIORATION**

1. SITE TOPSOIL SHOULD BE AMELIORATED IN ACCORDANCE WITH AS4419-2003 SOILS FOR LANDSCAPING AND GARDEN USE

**ROCK NOTES**

1. ALL ROCK APRONS TO TRANSITION SMOOTHLY INTO EXISTING SURFACE LEVEL.
2. ALL ROCK TO SPECIFIED SIZES ON DRAWINGS.
3. REFER TO TECHNICAL SPECIFICATION FOR ROCK GRADATION AND STRENGTH REQUIREMENTS

**SAFETY IN DESIGN NOTES:**

1. 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 REGISTER FOR THE POTENTIAL SAFETY HAZARDS.
2. DISCLAIMER: 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 BE WITHOUT RISK TO THE HEALTH AND SAFETY OF PERSONS INVOLVED IN CONSTRUCTION OR USE RELATED ACTIVITIES. FURTHER, IN APPENDIX D - 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 WORKPLACE HEALTH AND SAFETY (W.H. & S.) ACT, 2011.

CAD REF: 0 - PROJECTS\002009\BALLINA\_S\002009\_003\_TANAMERA\_WATERWAY\_MASTERPLAN\_V05\DESIGN\AUTOCAD\DRAWINGS\002009\_003-DWG-0002.DWG  
LAST MODIFIED: 16/10/23 12:41 AM

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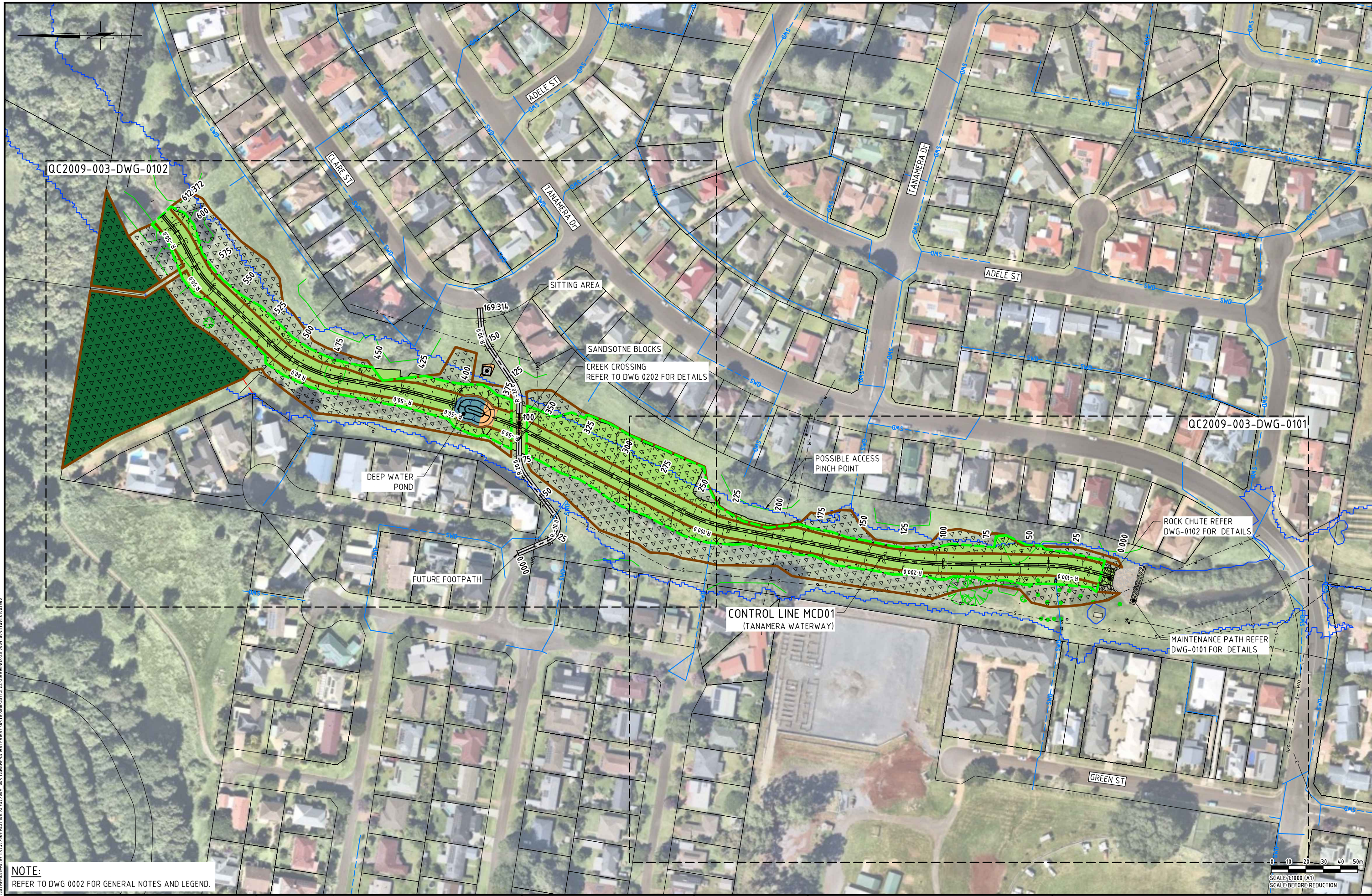
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BALLINA SHIRE COUNCIL	
TANAMERA WATERWAY MASTERPLAN LEGEND AND GENERAL NOTES	
ORIGINAL SIZE	DWG NO.
A1	QC2009-003-DWG-0002
REV.	D



**NOTE:**  
REFER TO DWG 0002 FOR GENERAL NOTES AND LEGEND.

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BALLINA SHIRE COUNCIL		ORIGINAL SIZE	DWG NO.	REV.
TANAMERA WATERWAY MASTERPLAN		A1	QC2009-003-DWG-0100	D
KEY PLAN				

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REFER DWG-0102 FOR CONTINUATION

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 LAST MODIFIED: 16/10/23 4:24 AM



**WARNING**

**FLOODWAY**  
 RAIN MAY CAUSE FLOOD WATER TO RISE RAPIDLY.  
 KEEP OFF AREA DURING HEAVY RAIN.

**NOTE:**  
 REFER TO DWG 0002 FOR GENERAL NOTES AND LEGEND.

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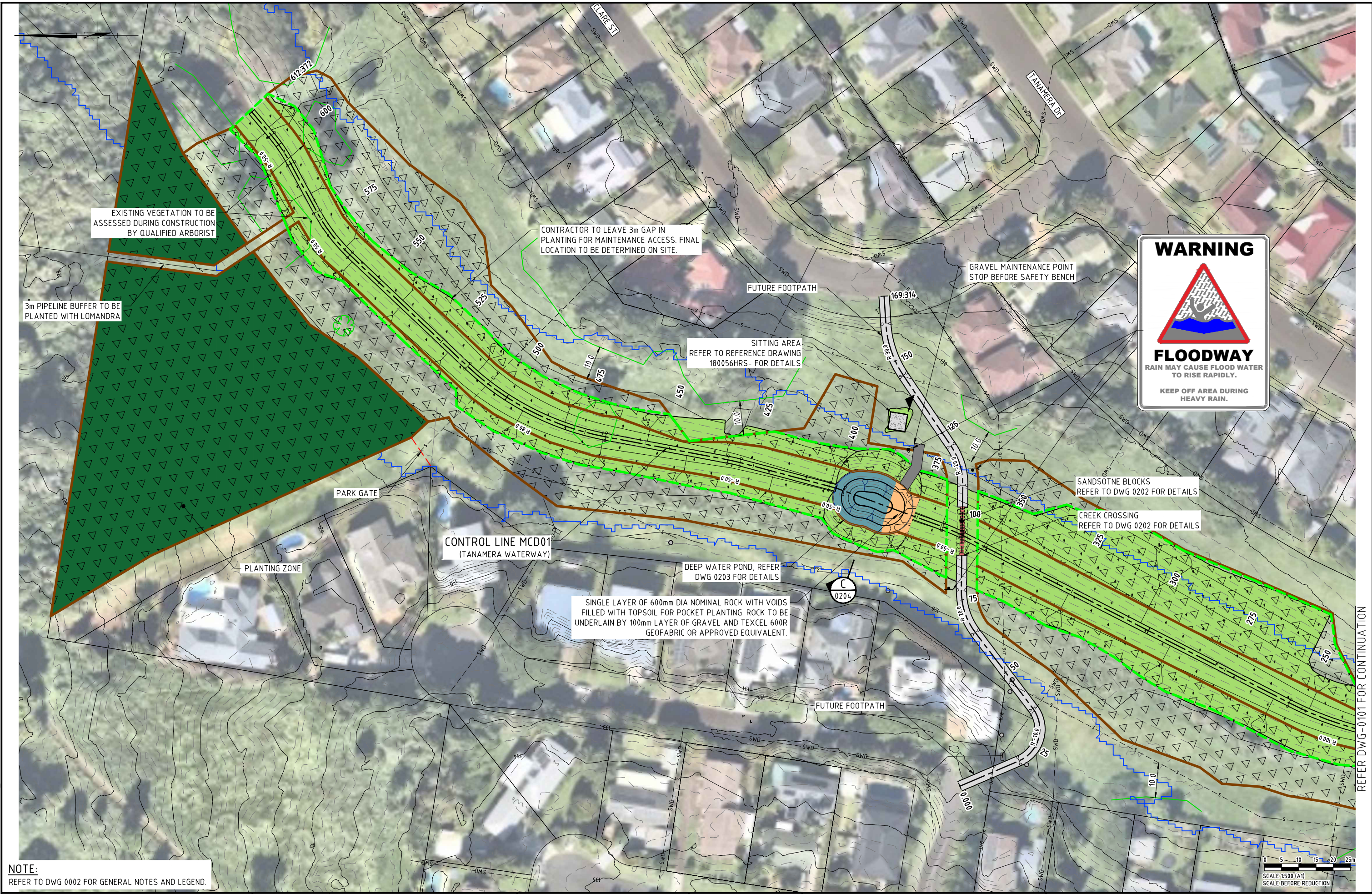


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BALLINA SHIRE COUNCIL		REV: D
TANAMERA WATERWAY MASTERPLAN GENERAL ARRANGEMENT PLAN		
ORIGINAL SIZE A1	DWG NO. QC2009-003-DWG-0101	



**NOTE:**  
REFER TO DWG 0002 FOR GENERAL NOTES AND LEGEND.

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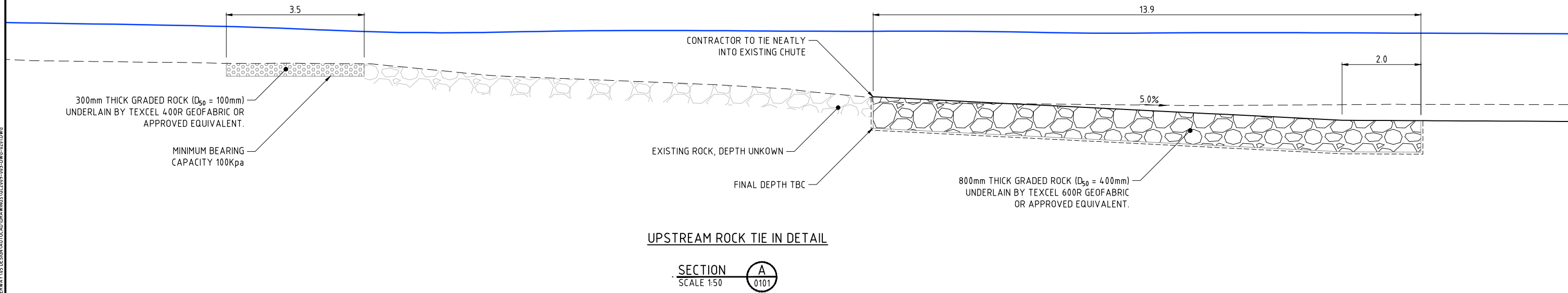
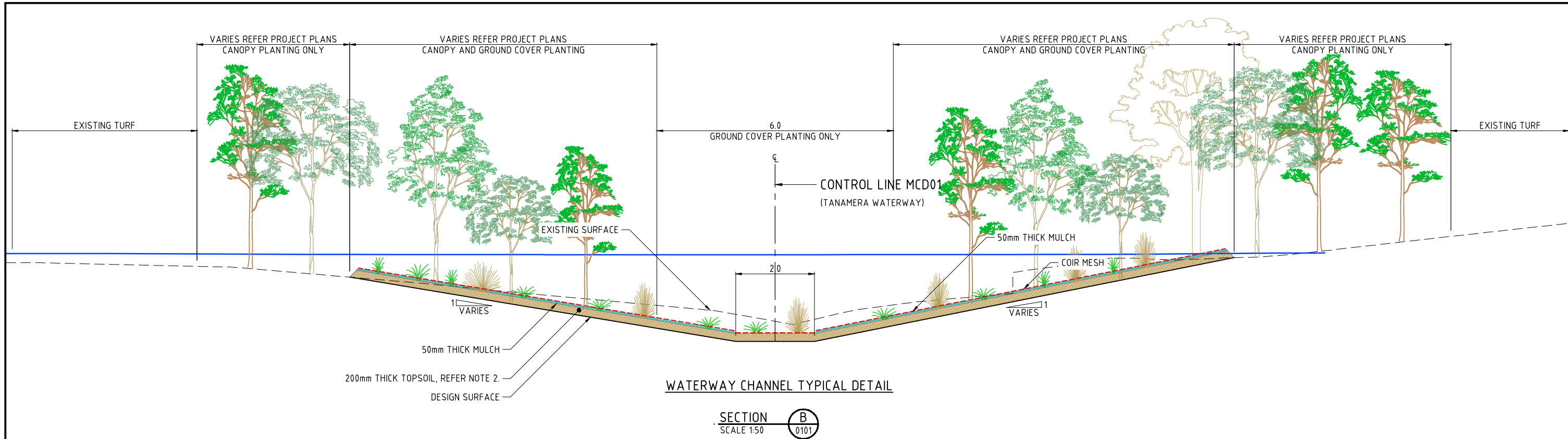
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BALLINA SHIRE COUNCIL		REV. D
TANAMERA WATERWAY MASTERPLAN GENERAL ARRANGEMENT PLAN		
ORIGINAL SIZE A1	DWG NO. QC2009-003-DWG-0102	

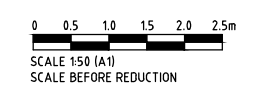
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REFER DWG-0101 FOR CONTINUATION



- LEGEND**
- EXISTING SURFACE
  - DESIGN SURFACE
  - 1% AEP FLOOD SURFACE
  - - - COIR MESH

- NOTES:**
1. REFER TO DWG 0002 FOR GENERAL NOTES AND LEGEND.
  2. TOPSOIL IN ACCORDANCE WITH AS4419, REUSE OF SITE TOPSOIL WILL REQUIRE TESTING TO DETERMINE IF AMELIORATION IS REQUIRED.



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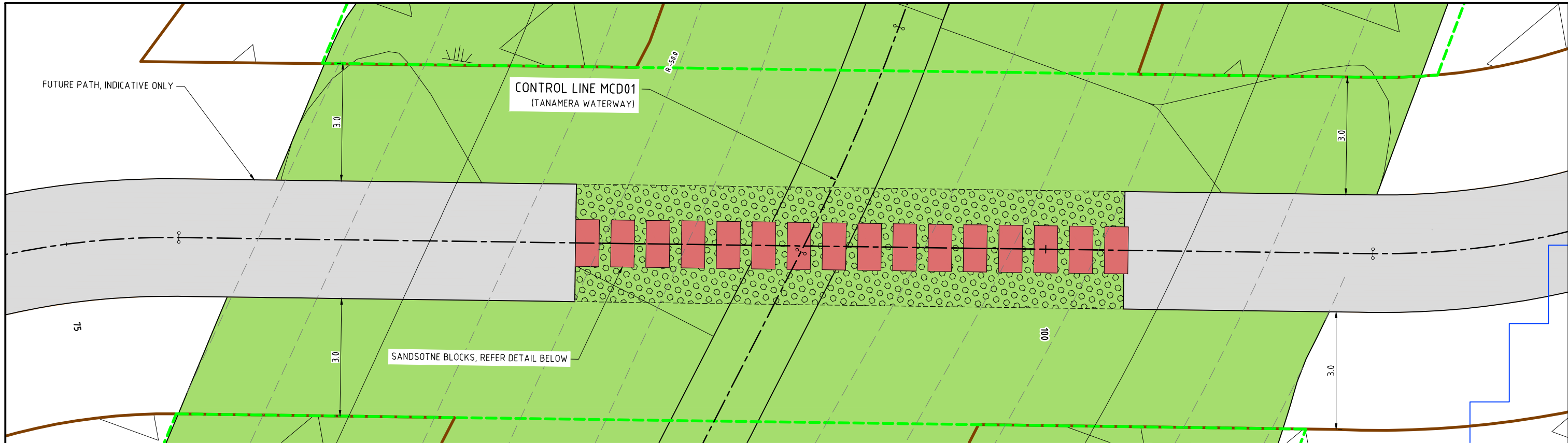
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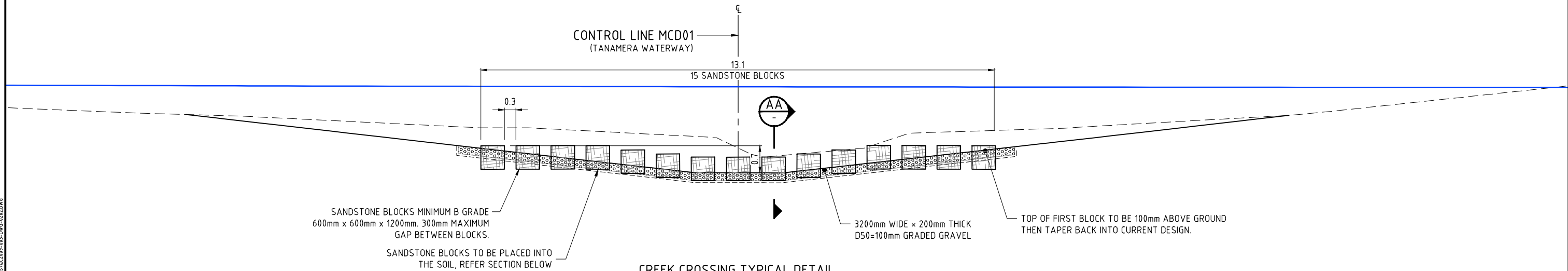
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BALLINA SHIRE COUNCIL	
TANAMERA WATERWAY MASTERPLAN TYPICAL SECTIONS AND DETAILS WATERWAY CHANNEL	
ORIGINAL SIZE A1	DWG NO. QC2009-003-DWG-0201
REV.	D

CAD REF: Q:\PROJECTS\QC2009\BALLINA\_S\QC2009\_003\_TANAMERA\_WATERWAY\_MASTERPLAN\_TYPICAL\_SECTIONS\_AND\_DETAILS\QC2009-003-DWG-0201.DWG



**SANDSTONE CROSSING PLAN**  
SCALE 1:50



**CREEK CROSSING TYPICAL DETAIL**  
SCALE: 1:50

SANDSTONE BLOCKS MINIMUM B GRADE  
600mm x 600mm x 1200mm, 300mm MAXIMUM  
GAP BETWEEN BLOCKS.

SANDSTONE BLOCKS TO BE PLACED INTO  
THE SOIL, REFER SECTION BELOW

3200mm WIDE x 200mm THICK  
D50=100mm GRADED GRAVEL

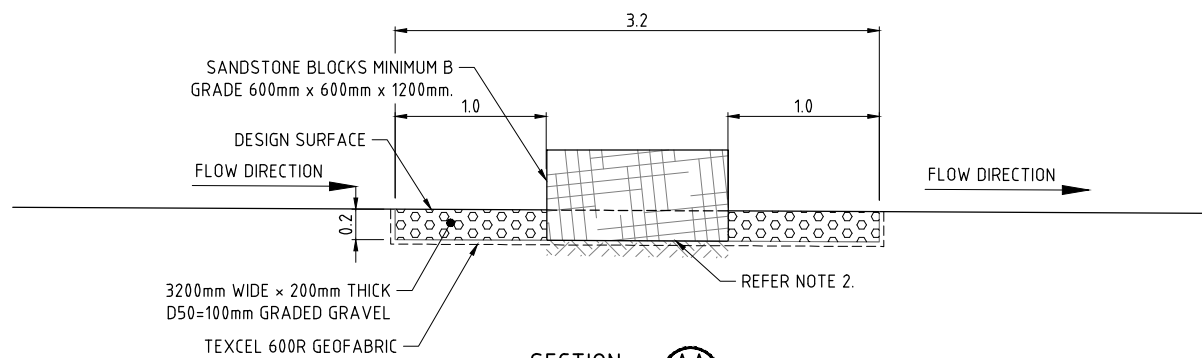
TOP OF FIRST BLOCK TO BE 100mm ABOVE GROUND  
THEN TAPER BACK INTO CURRENT DESIGN.

**LEGEND**

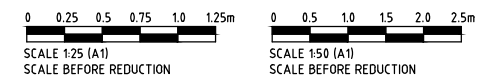
- EXISTING SURFACE
- DESIGN SURFACE
- 1% AEP FLOOD SURFACE

**NOTES:**

1. REFER TO DWG 0002 FOR GENERAL NOTES AND LEGEND.
2. MINIMUM 100KPa BEARING CAPACITY REQUIRED FOR SUBGRADE BELOW SANDSTONE BLOCKS.



**SECTION AA**  
SCALE 1:25



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REV	BY	DATE	REVISION DESCRIPTION	PM APPD	REFERENCE DOCUMENTS	DOC. NUMBER	DOCUMENT TITLE



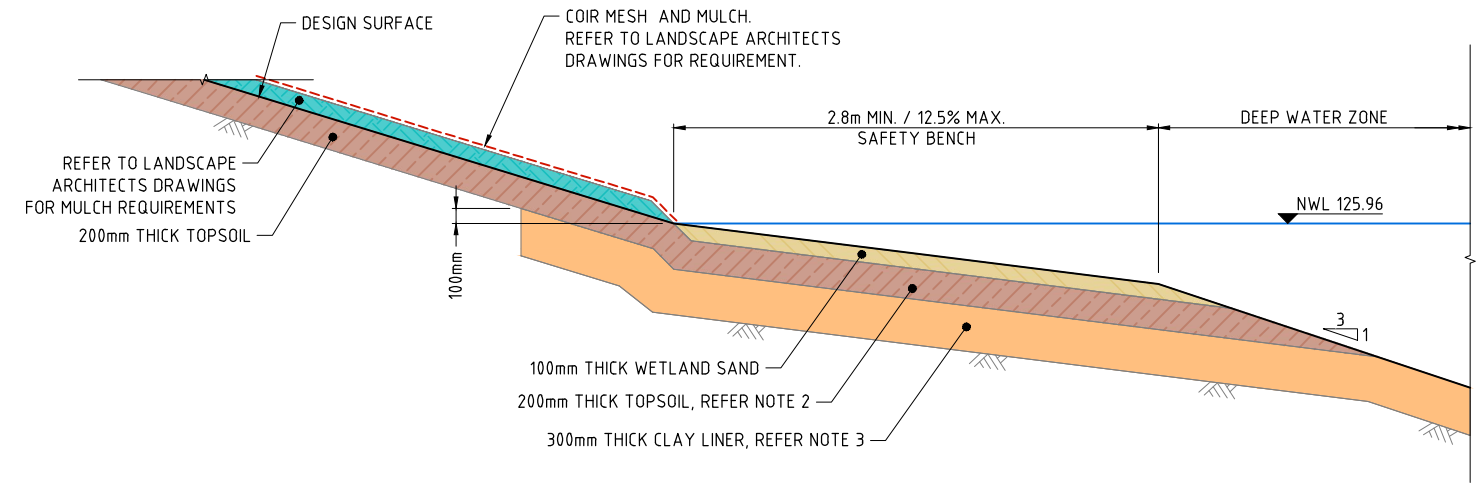
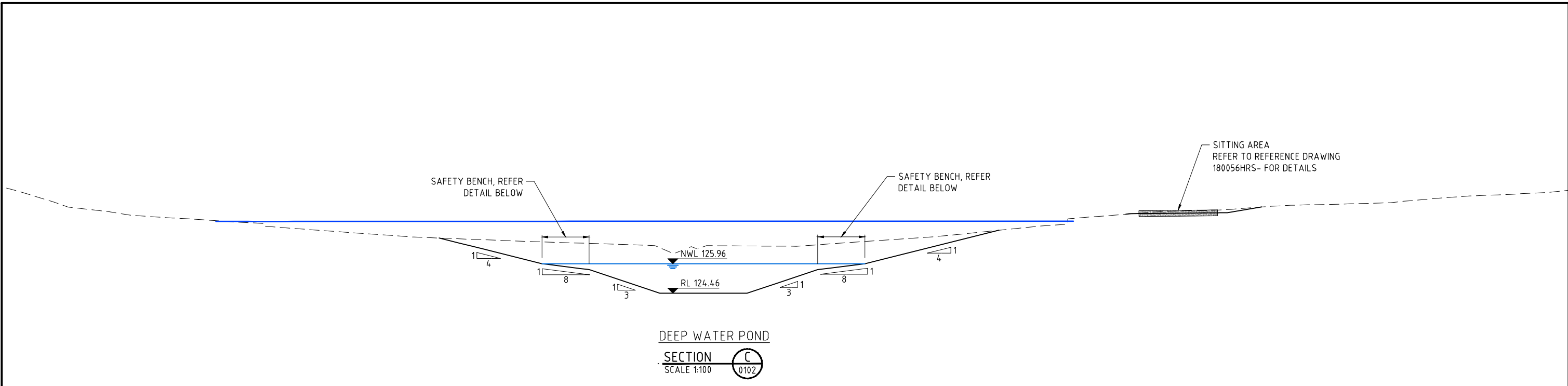
STATUS: **NOT FOR CONSTRUCTION - FOR REVIEW**

DESIGNED	NWN	CHECKED	DS
DRAWN	CH	CHECKED	NWN
PM APPD.		PD APPD.	
RPEQ		RPEQ No.	

Ph. 0417 831 687  
Unit 5  
84 Herries Street  
Toowoomba QLD  
www.engeny.com.au

BALLINA SHIRE COUNCIL		REV. D
TANAMERA WATERWAY MASTERPLAN TYPICAL SECTIONS AND DETAILS SANDSTONE CROSSING		
ORIGINAL SIZE A1	DWG NO. QC2009-003-DWG-0202	

CAD REF: 0:\PROJECTS\QC2009\BALLINA\_S\QC2009\_003\_TANAMERA\_WATERWAY\_MASTERPLAN\_TYPICAL\_SECTIONS\_AND\_DETAILS\QC2009\_003-DWG-0202.DWG



**LEGEND**

--- EXISTING SURFACE

— DESIGN SURFACE

— 1% AEP FLOOD SURFACE

**NOTES:**

- REFER TO DWG 0002 FOR GENERAL NOTES AND LEGEND.
- TOPSOIL IN ACCORDANCE WITH AS4419, REUSE OF SITE TOPSOIL WILL REQUIRE TESTING TO DETERMINE IF AMELIORATION IS REQUIRED.
- CLAY LINER IS PROVISIONAL ONLY, TO BE DETERMINED ON SITE BY ENGINEER.



CAD REF: 0:\PROJECTS\QC2009\BALLINA\_S\QC2009\_003\_TANAMERA\_WATERWAY\_MASTERPLAN\DESIGN\AUTOCAD\DRAWINGS\QC2009\_003-DWG-0203.DWG

THIS DRAWING IS CONFIDENTIAL AND SHALL ONLY BE USED BY ENGENY'S CLIENT FOR WHICH IT WAS PREPARED.						<b>NOT FOR CONSTRUCTION - FOR REVIEW</b>				<b>BALLINA SHIRE COUNCIL</b> <b>TANAMERA WATERWAY MASTERPLAN</b> <b>TYPICAL SECTIONS AND DETAILS</b> <b>DEEP WATER POND</b>	
D	FD	12.01.24	ISSUED FOR REVIEW								
C	FD	10.01.24	ISSUED FOR REVIEW			Unit 5	DRAWN	CH	CHECKED	NWN	
B	NWN	16.10.23	ISSUED FOR REVIEW			84 Herries Street	PM APPD.		PD APPD.		
A	NWN	16.10.23	ISSUED FOR REVIEW			Toowoomba QLD	RPEQ		RPEQ No.		
REV	BY	DATE	REVISION DESCRIPTION	PM APPD.	REFERENCE DOCUMENTS	www.engeny.com.au	ORIGINAL SIZE		DWG NO.		REV.
							A1	QC2009-003-DWG-0203		D	





EXISTING UPSTREAM ROCK PROTECTION, REFER DWG-0201 FOR DETAILS

CROSSING, REFER DWG-0202  
DEEP WATER POND REFER DWG-0203

DATUM 123.0

VERT. DETAILS	-5.00%		-0.51%										0.00%		-0.42%																					
HORIZ. DETAILS	L=14.275 R=-100.0		L=60.945		L=91.632		R=100.0		L=106.738		L=30.633 R=-50.0		L=26.854 R=-50.0		L=36.186 R=-50.0		L=47.118 R=80.0		L=15.927 R=50.0		L=8.832 R=-50.0															
NORTHING	6809752.617	6809764.123	6809766.412	6809790.391	6809801.843	6809851.326	6809851.835	6809885.664	6809901.319	6809950.417	6809975.643	6809988.725	6810002.338	6810043.260	6810087.759	6810097.332	6810103.062	6810109.558	6810131.854	6810134.087	6810134.087	6810136.986	6810139.229	6810162.037	6810165.643	6810182.713	6810201.207	6810229.975	6810241.426	6810267.140	6810275.645	6810285.231	6810292.821	6810296.312	6810298.490	6810304.170
EASTING	543280.576	543283.638	543284.247	543287.595	543287.794	543288.654	543288.663	543292.230	543295.244	543304.697	543309.554	543316.992	543318.753	543339.720	543362.520	543367.426	543369.922	543372.282	543380.381	543381.733	543381.733	543381.708	543382.544	543388.605	543389.422	543392.630	543396.106	543407.618	543416.630	543440.971	543449.022	543461.508	543475.511	543481.052	543483.841	543490.604
DEPTHS	-0.130	0.395	0.414	0.409	0.537	0.678	0.665	0.650	0.690	0.726	1.080	1.029	1.011	0.766	1.025	0.643	0.970	0.809	0.561	0.500	0.709	0.458	0.326	0.242	0.488	0.456	0.351	0.228	0.254	0.297	0.567	0.358	0.306	0.121	0.000	
DESIGN LEVELS	128.409	127.814	127.802	127.678	127.620	127.367	127.365	127.191	127.110	126.855	126.724	126.600	126.579	126.345	126.090	126.035	126.003	125.968	125.968	125.968	125.968	125.968	125.868	125.833	125.780	125.701	125.570	125.509	125.360	125.311	125.244	125.178	125.150	125.135	125.098	
EXISTING SURFACE	128.279	128.209	128.216	128.087	128.156	128.046	128.029	127.840	127.800	127.581	127.803	127.629	127.590	127.111	127.115	126.677	126.973	126.776	126.528	126.468	126.441	126.406	126.195	126.095	126.268	126.157	125.921	125.737	125.614	125.608	125.811	125.535	125.456	125.256	125.098	
CHAINAGES	0.000	11.907	14.275	38.547	50.000	99.491	100.000	134.057	150.000	200.000	225.689	250.000	254.019	300.000	350.000	360.757	367.011	373.922	397.644	400.000	402.038	405.333	428.932	432.631	450.000	468.817	500.000	514.593	550.000	561.711	577.519	593.446	600.000	603.539	612.372	

CONTROL LINE MCD01 (TANAMERA WATERWAY)

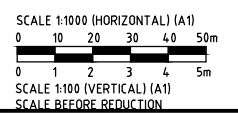
SCALE 1:1000 HORIZ.  
SCALE 1:100 VERT.

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- FLOOD SURFACE

NOTE:

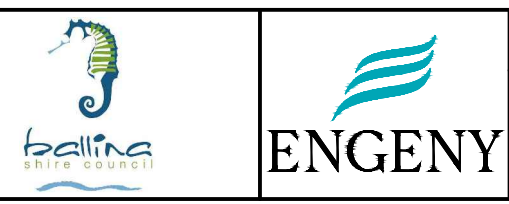
REFER TO DWG 0002 FOR GENERAL NOTES AND LEGEND.



LAST MODIFIED: 17/02/24 12:41 PM CAD REF: 0:\PROJECTS\QC2009\BALLINA\_S\QC2009\_003\_TANAMERA\_WATERWAY\_MASTERPLAN\_LONGITUDINAL\_SECTIONS\QC2009\_003-DWG-0301.DWG

REV	BY	DATE	REVISION DESCRIPTION	PM APPD	REFERENCE DOCUMENTS
D	FD	12.01.24	ISSUED FOR REVIEW		
C	FD	10.01.24	ISSUED FOR REVIEW		
B	NWN	16.10.23	ISSUED FOR REVIEW		
A	NWN	16.10.23	ISSUED FOR REVIEW		

DOC. NUMBER	DOCUMENT TITLE



STATUS			
<b>NOT FOR CONSTRUCTION - FOR REVIEW</b>			
Ph. 0417 831 687	DESIGNED	NWN	CHECKED DS
Unit 5 84 Herries Street Toowoomba QLD	DRAWN	CH	CHECKED NWN
www.engeny.com.au	PM APPD.		PD APPD.
	RPEQ		RPEQ No.

BALLINA SHIRE COUNCIL	
TANAMERA WATERWAY MASTERPLAN LONGITUDINAL SECTIONS	
ORIGINAL SIZE <b>A1</b>	DWG NO. <b>QC2009-003-DWG-0301</b>
	REV. <b>D</b>