

Appendix C

FACILITY ILLUSTRATIONS

Generic Intervention Structures

Typical designs of the most common interventions used for wetland rehabilitation purposes have been included here. Note that these drawings are not to scale and must be adapted during the design stage to suit site conditions and meet rehabilitation objectives. Detailed designs of the proposed interventions for the authorised Wetland Projects, as well as the proposed locations for these interventions, will be provided in the relevant annual Rehabilitation Plans.



WORKING FOR WETLANDS

Guideline on Generic Intervention Structures for Wetland Rehabilitation Purposes



SOFT OPTIONS

DRAWING No. SHEET No. DRAWING DESCRIPTION

109664-STD-01	Sheet 1 of 6	LIST OF DETAILS
109664-STD-01	Sheet 2 of 6	ECOLOGS
109664-STD-01	Sheet 3 of 6	ROCK PACKS
109664-STD-01	Sheet 4 of 6	ROAD STRIPS
109664-STD-01	Sheet 5 of 6	BERMS
109664-STD-01	Sheet 6 of 6	MACMAT / MACMAT-R

NOTES

- AURECON ACCEPTS RESPONSIBILITY FOR THE ENGINEERING DESIGN TO THE EXTENT THAT THIS IS BASED ON AVAILABLE INFORMATION. THE AVAILABLE INFORMATION IS LIMITED TO WHAT COULD BE INTERPRETED DURING A SINGLE SITE VISIT OF NO LONGER THAN A FEW HOURS. NO GEOTECHNICAL, TOPOGRAPHICAL, GEOMORPHOLOGIC AND OTHER ENGINEERING RELATED SURVEYS HAVE BEEN UNDERTAKEN TO INFORM THE DESIGN. THIS IS NON-STANDARD ENGINEERING PRACTICE AND THEREFORE AURECON IS INDEMNIFIED BY THE CLIENT AND DOES NOT ACCEPT RESPONSIBILITY FOR THE ASSOCIATED RISK OF FAILURE FROM THE ABOVE LIMITATIONS OR ANY DAMAGES THAT MAY OCCUR.
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EARTHWORKS/ EARTH STRUCTURES:

- ALL CUT AND FILL SLOPES TO BE NOT STEEPER THAN 1:4, UNLESS OTHERWISE SPECIFIED.
- ALL EXPOSED DISTURBED SURFACES TO BE REVEGETATED, UNLESS OTHERWISE SPECIFIED. 100mm OF TOP SOIL TO COVER BERM. REVEGETATION TO BE UNDERTAKEN AS PER EMP / REHAB PLAN.
- SOIL FOR BERMS AND BACKFILL TO BE COMPACTED IN 100mm LAYERS AT OPTIMUM WATER CONTENT

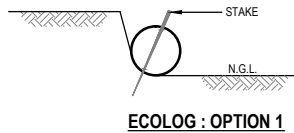
DISPERSIVE SOILS:
(ONLY APPLICABLE IN AREAS WITH DISPERSIVE SOILS):

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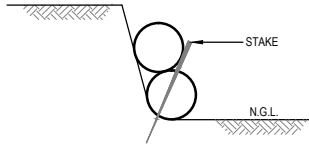
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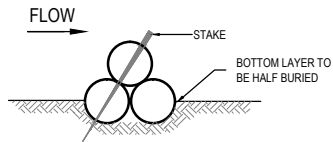
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					A.MNYAKA		ENGINEER	DRAWING No.	109664 - STD-01
					DESIGNED		DATE		1 OF 6
					D.TOWNSHEND				REV
					VERIFIED				A
					F.NAGDI				



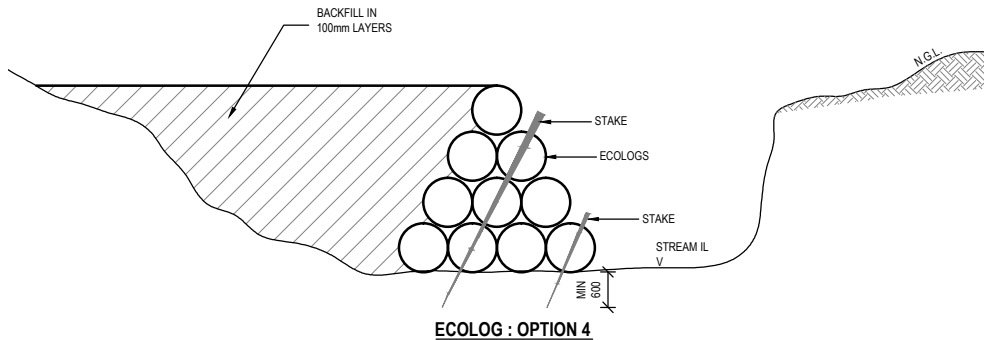
ECOLOG : OPTION 1



ECOLOG : OPTION 2



ECOLOG : OPTION 3



ECOLOG : OPTION 4

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ECOLOGS:

- WOODEN PEGS USED TO ANCHOR ECOLOGS ARE TO BE NO LESS THAN 40mm DIA AND 1000mm IN LENGTH.
- PEGS SHOULD PROTRUDE NO LESS THAN 60mm FROM THE SOIL @ 1000 c/c.

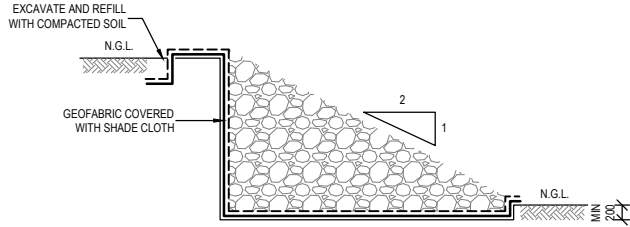
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Working for Wetlands	A	29/10/2013	ISSUED FOR INFORMATION	D.TOWNSHEND

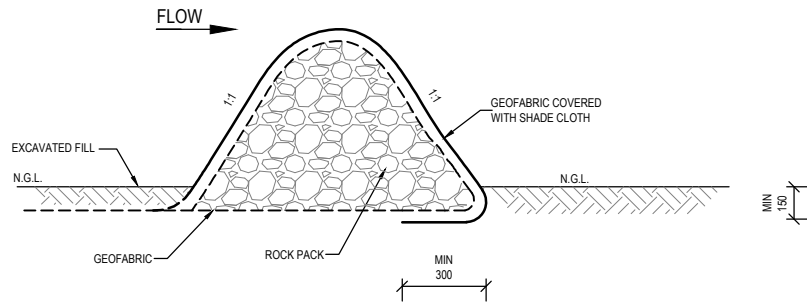
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VERIFIED	
F.NAGDI	

PRELIMINARY	APPROVED
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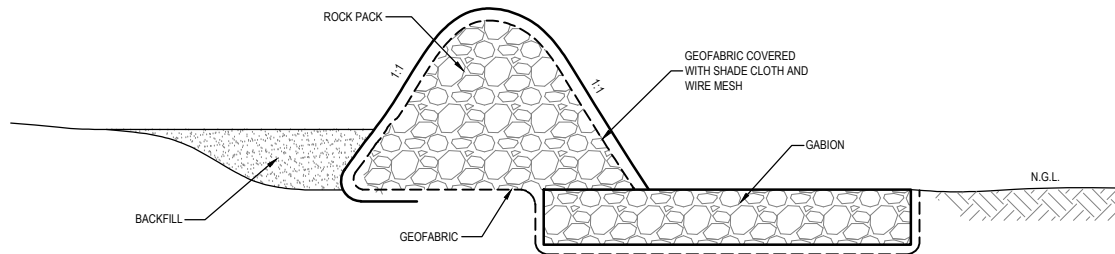
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WORKING FOR WETLANDS	STANDARTD DETAILS	ECOLOGS	109664 - STD-01	A
			2 OF 6	



ROCK PACK : OPTION 1



ROCK PACK : OPTION 2



ROCK PACK : OPTION 3

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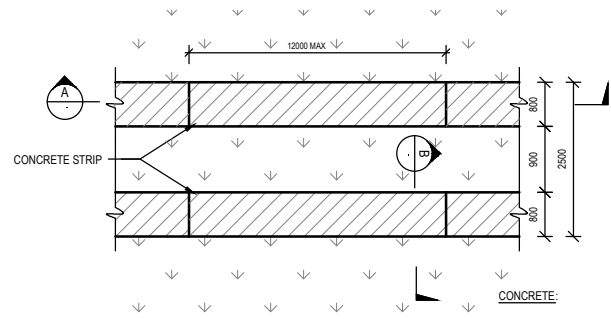
- ROCK PACKS:**
- 100mm -200mm STONE TO BE USED IN ROCK PACKS
 - STONE MUST BE NON-FRILABLE AND INSOLUBLE, e.g. GRANITE, BASALT, LIMESTONE OR SANDSTONE
 - ROCK PACKS PLACED ACROSS A STREAM TO BE TIED MIN 1m INTO EACH BANK.

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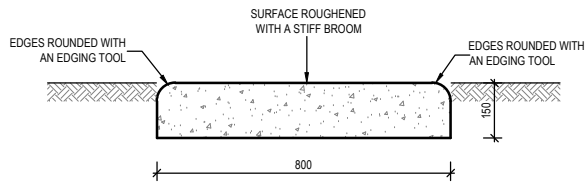
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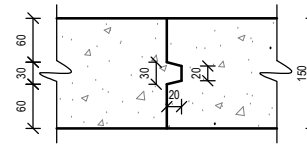


PLAN OF CONCRETE STRIP

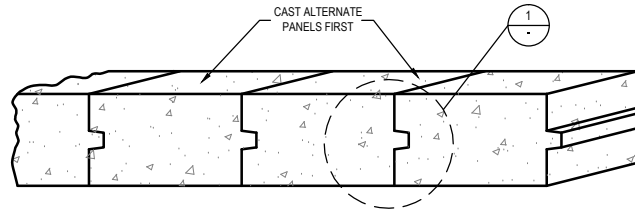


SECTION B (CONCRETE STRIP)
1:20

- CONCRETE:**
- ALL BUTTRESS WEIR STRUCTURES TO USE MIN 20MPa CONCRETE MIX:
 1 BAG CEMENT
 95L SAND
 100L STONE
 27L WATER



DETAIL 1 (SCHEMATIC VIEW OF JOINT BETWEEN PANELS)
1:10



SECTION A (SCHEMATIC VIEW OF JOINT BETWEEN PANELS)
1:10

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					DESIGNED		DATE	DRAWING No.	109664 - STD-01
					D.TOWNSHEND				4 OF 6
					VERIFIED				REV
					F.NAGDI				A



HARD OPTIONS

