

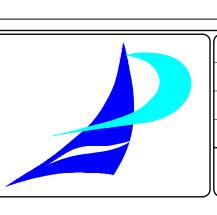
			100 Table of millimetres	200	300	400	500	600
E D C B	13/02/19 06/11/18 03/08/18 31/07/18	Eastern rock wall reduced to 10m Ref Issue Preliminary Issue Preliminary Issue	BP BP BP BP BP	Client: NSW Crown Holiday Park Trust	Clarkes Beach Stormwater and Midden Protectior	0	Title: Gully Protection Works Layout & Revegetation Plan	ARDILL PAYNE a r t n e r s ENGINEERS PLANNERS SURVEYORS ENVIRONMENTAL PROJECT MANAGEMENT BALLINA 45 River Street Ph. 02 6686 3280
A Issu	07/07/2017 e Date	First Issue Description	ME App'd				Do not scale drawing. Use written dimensions only This plan is copyright © All rights reserved.	GUNNEDAH 285 Conadilly Street Ph. 02 6742 9955   A.B.N. 51 808 558 977 e-mail: info@ardillpayne.com.au

otanical Name	Common Name	Revegetation Method	Spacing			
rubs						
acia sophorae	Coastal Acacia	Planting	2m			
aevola calendulacea	Beach Fan Flower	Planting	3m			
onotoca eliptica	Monotoca		4m			
oundcovers						
ınavalia rosea	Beach Bean	Cuttings/Transplant	5 m			
ırpobrotus	Pig Face	Cuttings/Transplant	3m			
aucescens						
anella caerulea	Dianella	Planting	2m			
cinia nodosa	Knobby Club Rush	Planting	2m			
omoea pes caprae	Goat's Foot	Cuttings/Transplant	5m			
elanthera biflora	Melanthera	Cuttings/Transplant	5m			
inifex sericeus	Spinifex	Direct seeding	1 m			
		Cuttings/Transplant	5m			
gna marina	Yellow Beach Bean	Cuttings/Transplant 5m				

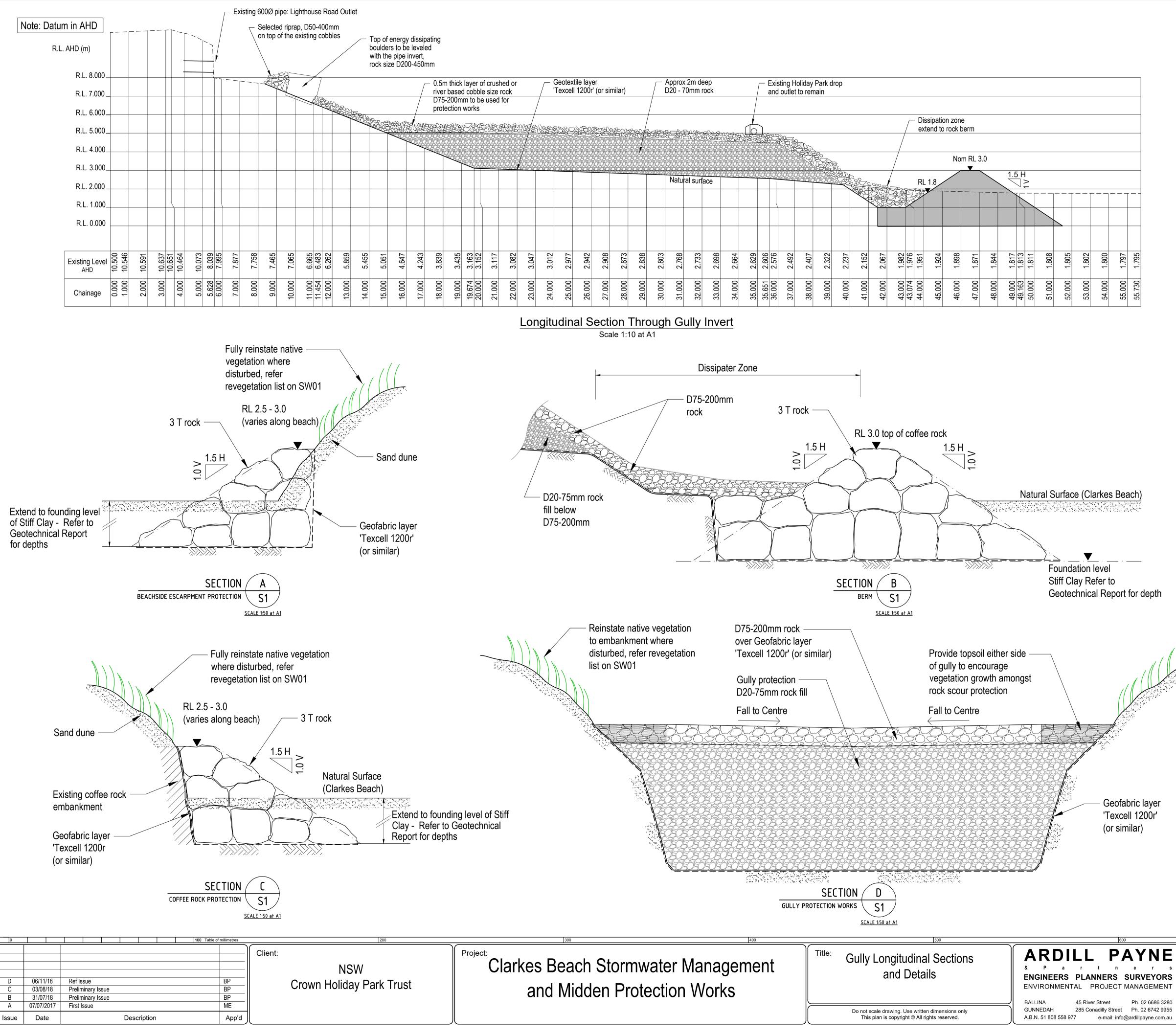
otanical Name	Common Name	Revegetation Method	Spacing
nrubs			
cacia sophorae	Coastal Acacia	Planting	1.5m
ectryon coriaeceus	Beach Alectryon	Planting	3m
roundcovers			
anella caerulea	Dianella	Planting	1.5m
cinia nodosa	Knobby Club Rush	Planting	1.5m
mandra longifolia	Lomandra	Planting	1.5 m

construction purposes unless it carries the approval stamp of the local authority.





700							780	
Designed	BP	Scale	1:2	200 @ A	.1, 1:4	100 @ A	.3	
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Approved		Date		07/07/2	2017	Datum	AHI	D
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## General Notes

- 1. The height and size of the protection works has been defined based on consultation with the project stakeholders and does not provide a long term coastal protection. Refer UNSW Report WRL2018021 for overtopping details.
- 2. Same rock material to be used for protection works within the gully and beach side escarpment.
- 3. Natural surface contours are computer interpolated from surveyors electronic field data.
- 4. Notwithstanding the limits of earthworks shown on the drawings, the actual limits shall be confirmed on site by the contractor.
- 5. Prior to commencement of construction, the contractor is to ascertain the location and level of existing services to his satisfaction.
- 6. Notwithstanding the extent of the works shown on the drawings the contractor shall undertake all necessary construction required to enable finished works to comply with the intent of the drawings and the requirements of the local authorities design and construction codes.
- 7. These drawings are diagrammatic only. They do not relieve the contractor or builder from his responsibility to comply with these requirements, even if drawings are approved by the authority.

# **Rock Armouring Notes**

- 1. The surface should be completely cleared of vegetation before sand filling and placement of rock protection works
- 2. Geotextile layer to completely cover the interface between the rocks and sand
- 3. The cobbles forming the D200mm armouring shall be at least 20kg with a medium weight of 35kg and specific weight of not less than 2600 kg/m3
- 4. Large rocks shall be bedded on their broadest base.
- 5. The rock armouring has been intended for erosion protection as per UNSW Report WRL 2018021 and to dissipate gully stormwater load.

# Protection Works at Midden

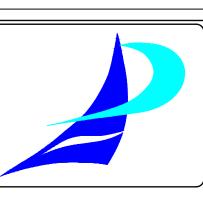
- 1. No excavation allowed at escarpment surface.
- 2. No access to the site through the midden area is allowed.
- 3. The extent of protection works may be changed by the superintendent at the site.

## Revegetation

Reinstate native vegetation where disturbed and for extents shown. Refer SW01 for zones and planting details

This plan is NOT to be used for construction purposes unless it carries the approval stamp of the local authority.

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