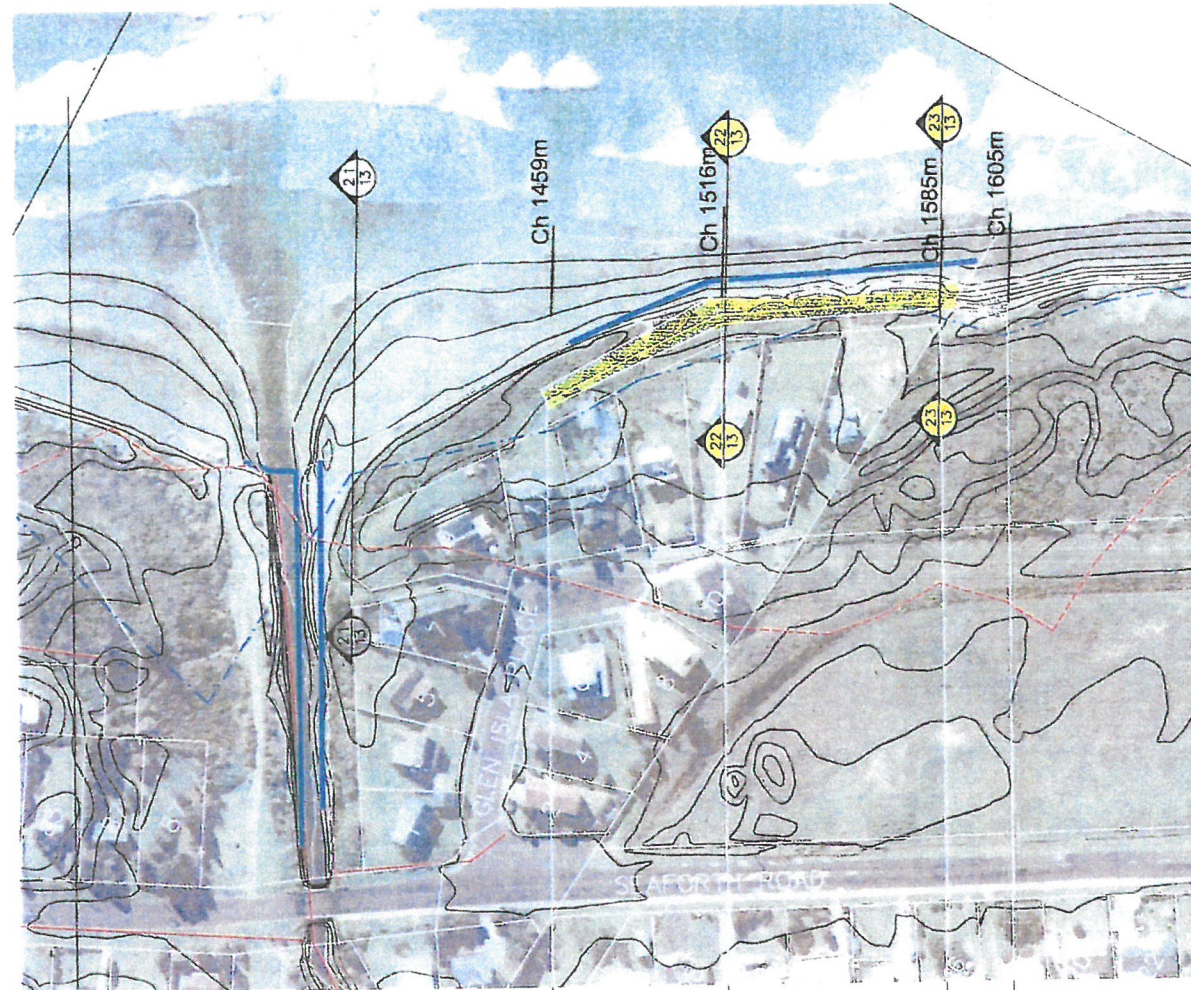

GLEN ISLA PLACE – WAIHI BEACH

WATERFRONT EROSION PROTECTION







LEGEND

- Wall (EXISTING)
- Toe of Rock
- Back of Rock Fill
- Dune Line November 1942 (Aerial Photo)
- Dune Line (vegetation) March 1964 (Aerialphoto)
- Property Boundaries
- Approximate Seawall Footprint

SCALE 1:2000
0 20 40 60 80 100 (m)

Original Design Concept Buried Rock Revetment February 2004

Offset 5m seaward of property boundaries

Transition

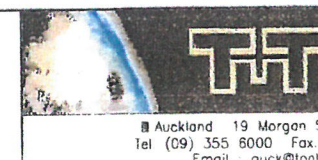
Type B Wall

Transition

12080120801.01-05.dwg, 05, 29/01/2004 03:39:08 P., rbs, 1:1

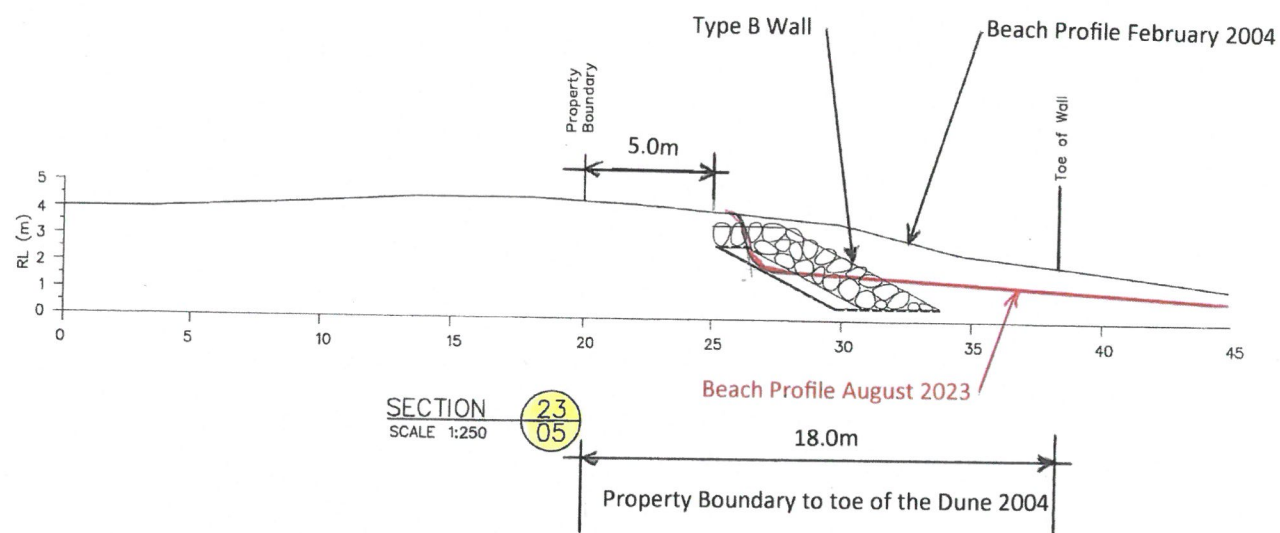
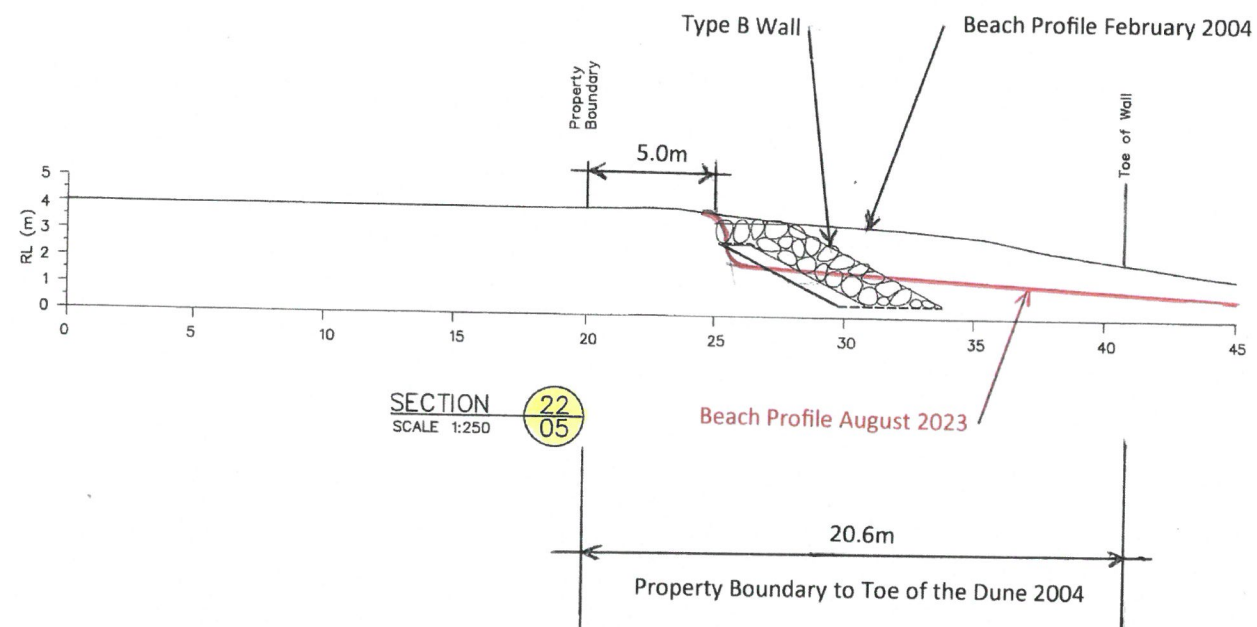
				DESIGNED :	RRH	Sep.03
				DRAWN	SXT	Jan.04
				DESIGN CHECKED :		
				DRAFTING CHECKED		
				CADFILE : L\20801\20801.01-05		
				APPROVED	NOT FOR CONSTRUCTION	

- NOTES
1. Crest elevation of walls not to exceed typical ground levels along property frontage.
 2. Locally adjust seawall seaward of significant trees situated on reserve subject to arbourist recommendations



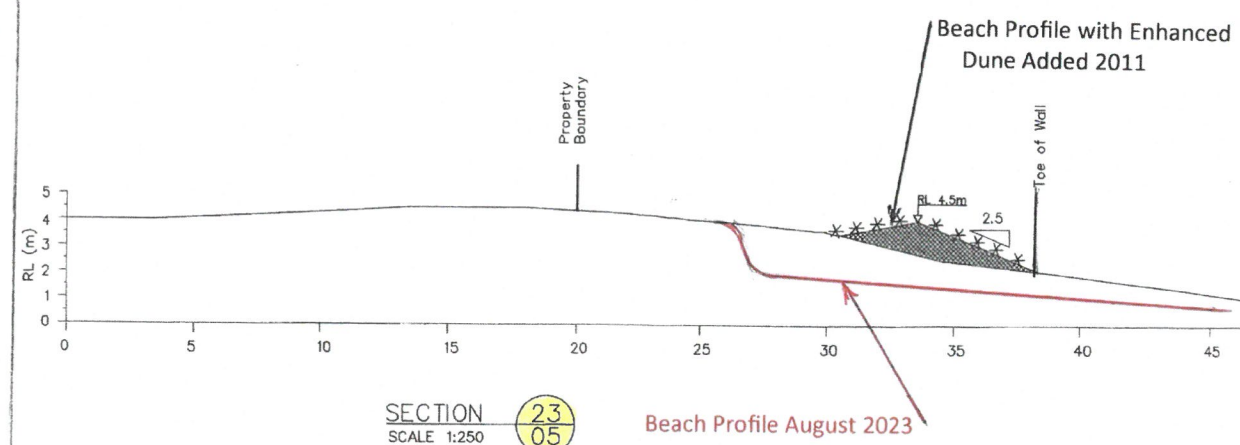
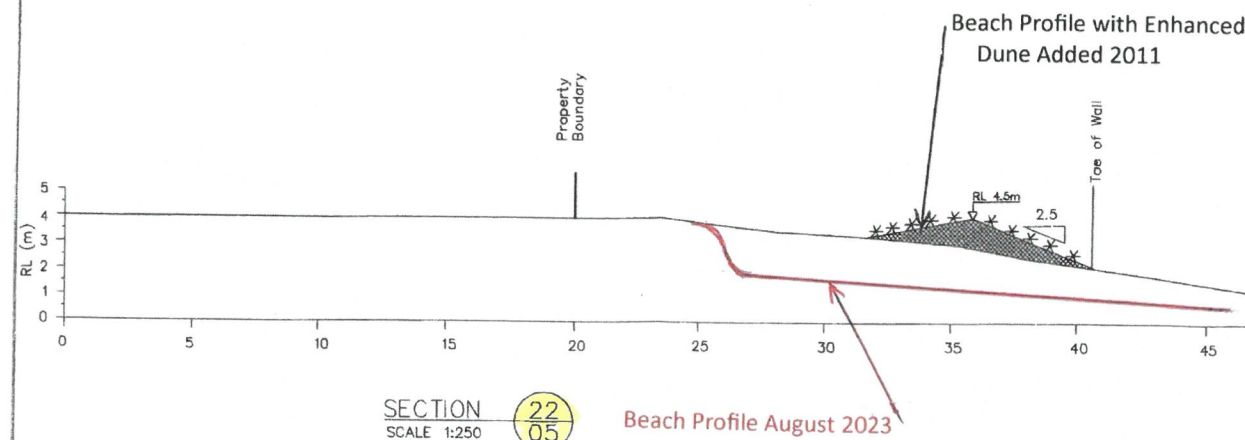
Tonkin & Taylor
Environmental &
Engineering Consultants
Auckland 19 Morgan St. Newmarket
Tel (09) 355 8000 Fax (09) 307 0265
Email: auck@tonkin.co.nz

CLIENT PROJECT
WBOP DISTRICT COUNCIL
WAIHI BEACH PROTECTION CONTRACT 03/1010
FILE
SEAWALL LOCATION PLAN
Sheet 4 of 4



**Original T&T Design Concept
Buried Rock Revetment Wall
February 2004**

SCALE 1:250
0 5 10 15 (m)



**New T&T Design Concept
Enhanced Dune
November 2004**

SCALE 1:250
0 5 10 15 (m)

WAIHI BEACH PROTECTION WORKS
EXTRACT FROM TONKIN AND TAYLOR FEBRUARY 2004 REPORT
NARRATIVE RELATED TO THE GLEN ISLA PLACE WATERFRONT

We note that the existing stormwater discharge from Ayr Street results in significant local erosion. We recommend diverting the stormwater back towards Seaforth Road.

The toe of the wall is between 8 m and 2 m landward of the existing steel post and timber fence.

5.9 10 The Loop to 32 The Loop

This section comprises Type B set back along the face of the existing dunes. The Landward extent of the wall is situated between 2 m and 12 m seaward of the property boundaries. The wall is founded at around 0 m RL.

Informal access will be provided at six locations including the public access ways by 10 The Loop and 20 The Loop. Access will be facilitated by placing rock armour in this location with horizontal flat planes.

The toe of the wall is situated at the existing steel post and timber fence.

5.10 34 The Loop to 38 The Loop

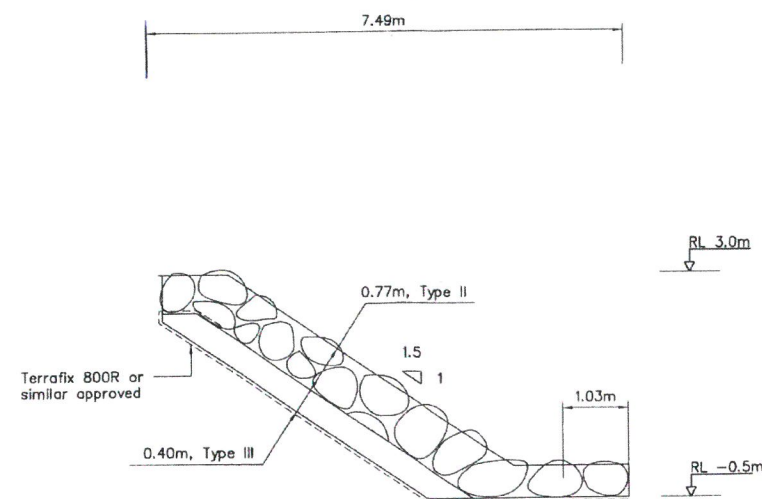
This is a transition area starting with Type B and finishing with the Type F profile. The wall is situated 5 m seaward of the private property boundary and the base of the wall is founded between 0 m RL and 1.0 m RL.

5.11 13 Glen Isla Place to 15 Glen Isla Place

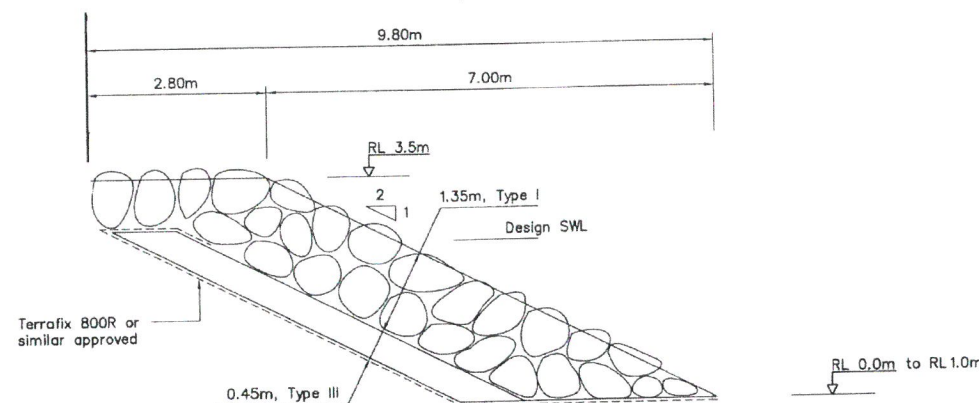
This is a transition area starting with Type F and finishing with the Type B profile. The wall is situated 5 m seaward of the private property boundary and the base of the wall is founded at 1.0 m RL.

5.12 16 Glen Isla Place to Seaforth Reserve

This area is protected by a Type B profile transitioning to a Type F profile in Seaforth Reserve. The wall is situated 5 m seaward of the private property boundary and the base of the wall varies from 0.5 m to 1.0 m.

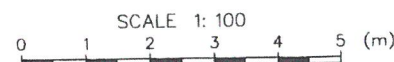


F TYPICAL SECTION
SCALE 1:100



B TYPICAL SECTION
SCALE 1:100

Landward option for backshore areas with ground levels between 3.50m and 4.00m



			DESIGNED :	RRH	Nov.03	NOTES : 1. All dimensions are in metres unless noted otherwise.
			DRAWN :	SXT	Nov.03	
			DESIGN CHECKED :			
			DRAFTING CHECKED :			
			CADFILE : L:\20801\20801-101-102			
			APPROVED : NOT FOR CONSTRUCTION			
0	First Issue		This drawing is not to be used for construction purposes unless signed as approved			REFERENCE :
REVISION DESCRIPTION	BY	DATE	CORRECT ALL THE DRAWING IS DELETED			

NOTES :
1. All dimensions are in metres unless noted otherwise.

REFERENCE :

WESTERN BAY OF PLENTY DISTRICT COUNCIL
WAIHI BEACH PROTECTION WORKS, CONTRACT 03/1010
REFERENCE NUMBER 20801 February 2004



NOTES:

- Possible location of Sea Wall and Scale
- Dimensions taken from Tonkin + Taylor February 2004 Scheme for Glen Isla Place Waterfront.
- Sand cover over buried or partially buried Sea Wall to be planted on completion with Dune plants including sand trapping plants like Spinifex and Pingao grass.
- For sections through the Wall types B&F refer to cross-section details above.
- Detailed Coastal Engineering Wall design to follow.