

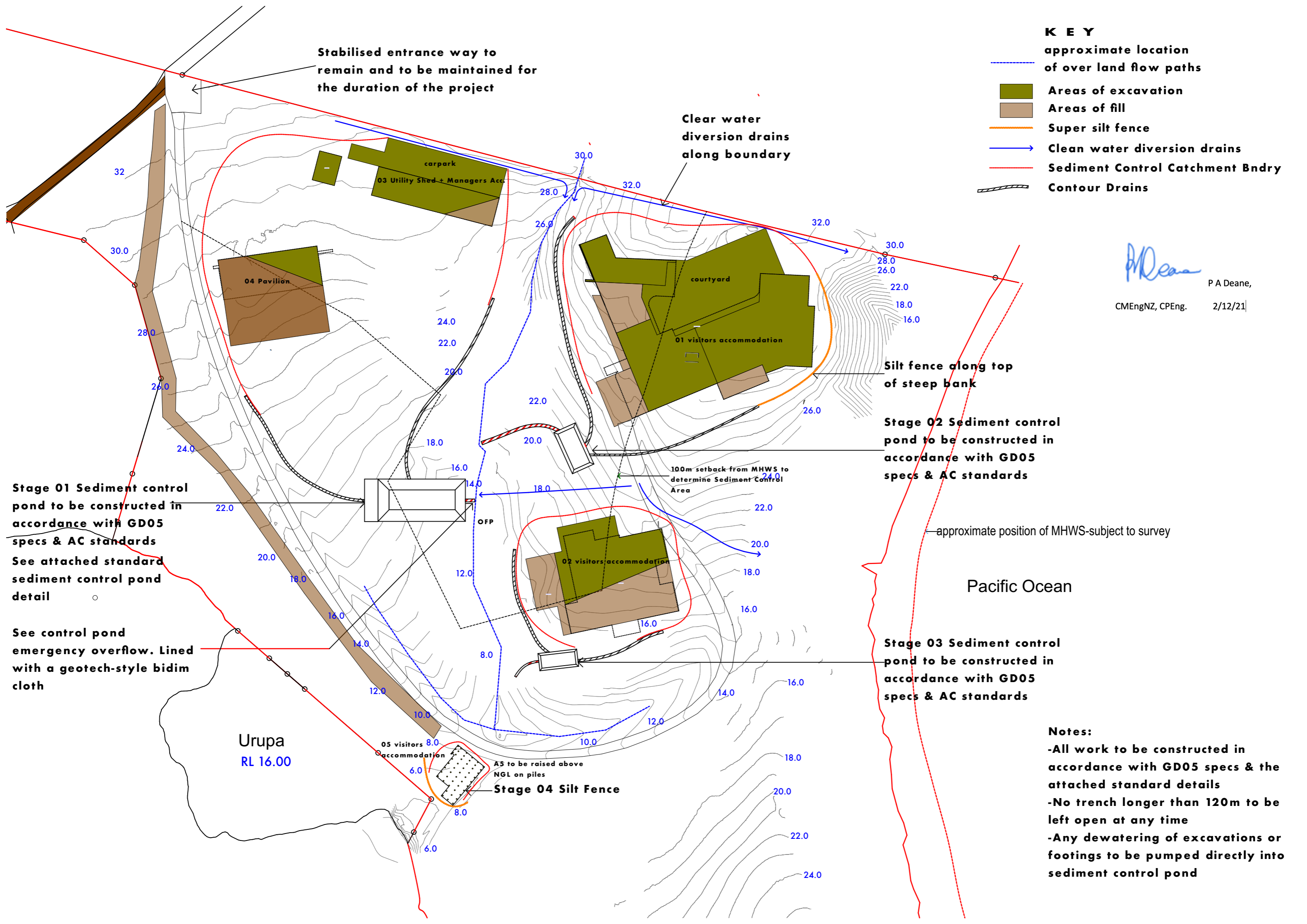
20 Omaha Block Access Road

Erosion and sediment control Concept Plan

Proposed erosion and sediment control plan for 20 Omaha Block Access rd.
Earthworks areas and volumes to be confirmed.

All controls are to be in accordance with Auckland council regulations and GD05 specifications. Treatment of silt ponds will be carried out to the recommendations once soil testing is complete.

Overland flow path diversion is to be created and maintained throughout the duration of the earthworks process.



- KEY**
- approximate location of over land flow paths
 - Areas of excavation
 - Areas of fill
 - Super silt fence
 - Clean water diversion drains
 - Sediment Control Catchment Bndry
 - Contour Drains

P A Deane
 P A Deane,
 CMEngNZ, CPEng. 2/12/21

Stage 01 Sediment control pond to be constructed in accordance with GD05 specs & AC standards
See attached standard sediment control pond detail

See control pond emergency overflow. Lined with a geotech-style bidim cloth

Silt fence along top of steep bank

Stage 02 Sediment control pond to be constructed in accordance with GD05 specs & AC standards

Stage 03 Sediment control pond to be constructed in accordance with GD05 specs & AC standards

Notes:
 -All work to be constructed in accordance with GD05 specs & the attached standard details
 -No trench longer than 120m to be left open at any time
 -Any dewatering of excavations or footings to be pumped directly into sediment control pond

Urupa
 RL 16.00

A5 to be raised above NGL on piles

approximate position of MHWS-subject to survey

100m setback from MHWS to determine Sediment Control Area

OFF

Stage 04 Silt Fence

05 visitors accommodation

02 visitors accommodation

01 visitors accommodation

04 Pavilion

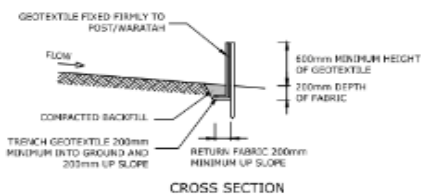
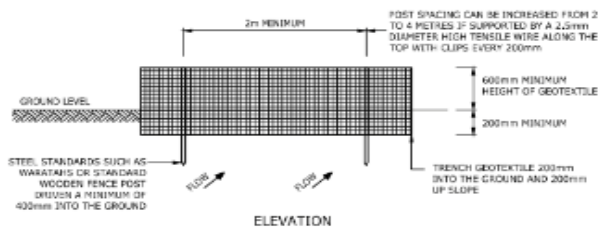
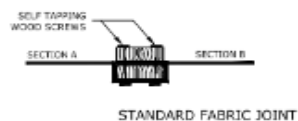
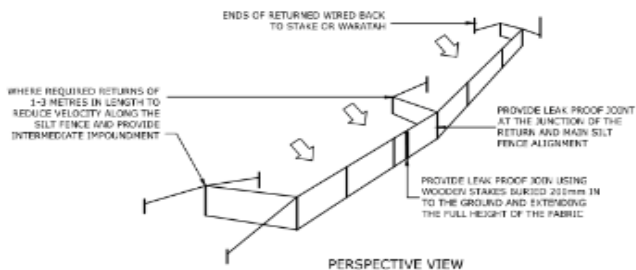
03 Utility Shed + Managers Acc.

carpark

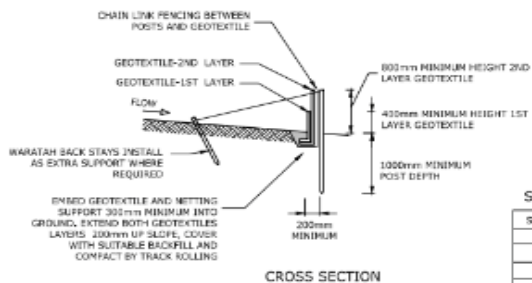
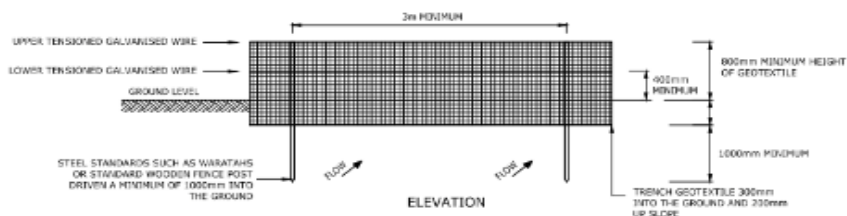
Clear water diversion drains along boundary

Stabilised entrance way to remain and to be maintained for the duration of the project

Pacific Ocean



SILT FENCE CONSTRUCTION



SUPER SILT FENCE CONSTRUCTION

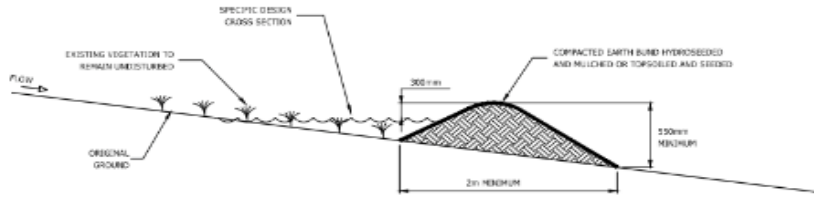
SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAXIMUM)	SPACING OF RETURNS (m)
< 2%	N/A	UNLIMITED
2-10%	40	60
10-20%	30	50
20-33%	20	40
33-50%	15	30
>50%	6	20

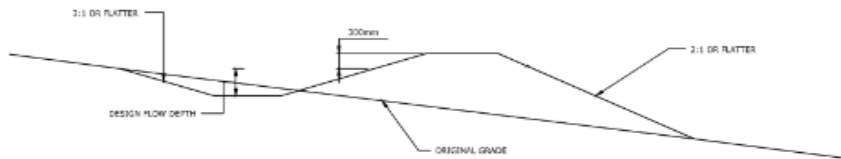
GRAB TENSILE STRENGTH: >140N (ASTM D4632)
 TENSILE MODULUS: 0.140 psi (MINIMUM)
 APPARENT OPENING SIZE: 0.1-0.5mm (ASTM D4751)

SUPER SILT FENCE DESIGN CRITERIA:

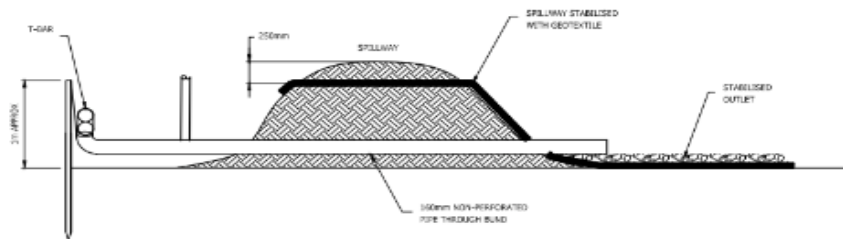
SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAXIMUM)	SPACING OF RETURNS (m)
0-10%	UNLIMITED	60
10-20%	60	30
20-33%	30	40
33-50%	30	30
>50%	15	20



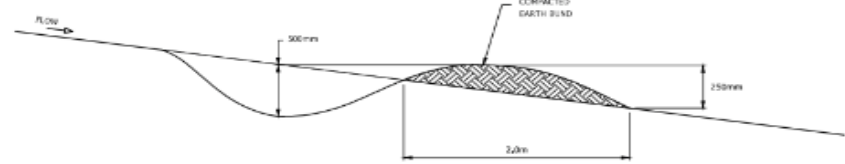
CLEANWATER RUNOFF DIVERSION BUND - CROSS SECTION



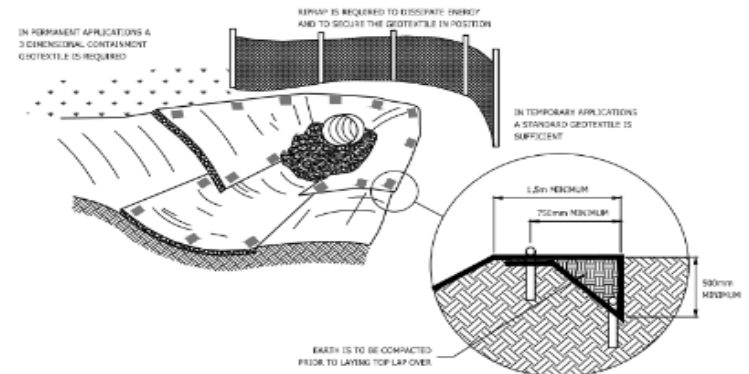
RUNOFF DIVERSION BUND - CROSS SECTION



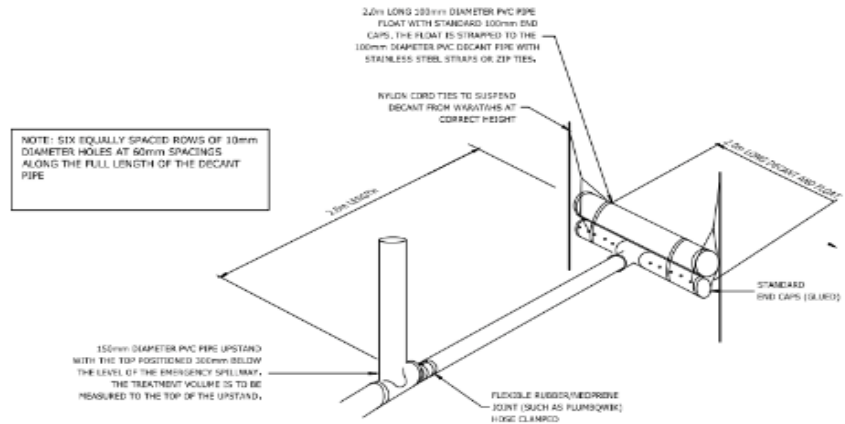
EARTH BUND



CONTOUR DRAIN



GEOTEXTILE AT CULVERT OUTLET



100mm DECANT WITH UPSTAND FOR DECANTING EARTH BUND

