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Appendix D – Erosion and Sediment Control Management Plan

UoA Student Centre & Library

Erosion and Sediment Control Management Plan

Prepared for University of Auckland
Prepared by Beca Limited
FTAA Substantive Consent Application

30 October 2026



Contents

1 Introduction 1

2 Erosion and Sediment Control Methodology 2

2.1 Minimise Exposed Areas & Stage Construction 2

2.2 Clean-Water Diversion 2

2.3 Stormwater Inlet Protection 2

2.4 Treatment of Sediment-Laden Water 2

2.5 Stockpiling 2

2.6 Weather 2

2.7 Truck Wheel Wash 2

2.8 Stabilised Access 3

2.9 Dust Control 3

2.10 Stabilisation 3

2.11 Winter Works 3

2.12 Accidental Discovery Protocol 3

2.13 General Control Measures 4

2.14 Monitoring and Maintenance of Control Plan 4

3 Conclusions 6

Appendices

Appendix D1 – Erosion and Sediment Control Drawings

Revision History

Revision Nº	Prepared By	Description	Date
0	Luke Cameron	Issued for Substantive FTAA Application	30 October 2026

Document Acceptance

Action	Name	Signed	Date
Prepared by	Luke Cameron		30 October 2026
Reviewed by	Roshanak Rezaee		30 October 2026
Approved by	Christi Breytenbach		30 October 2026
on behalf of	Beca Limited		

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1 Introduction

This Plan outlines the designed Erosion and Sediment Control (E&SC) measures for the University of Auckland Student Centre and Library project. It has been prepared in support of the Fast-track Approvals Act 2024 (FTAA) substantive application and addresses the management of erosion, sediment generation, and sediment-laden runoff associated with the designed earthworks and construction activities.

The plan identifies potential erosion and sediment risks and describes the controls and management practices that will be implemented to minimise adverse effects on the receiving environment and the existing stormwater network during the construction phase.

2 Erosion and Sediment Control Methodology

This section outlines the erosion and sediment control measures designed for the project, as illustrated on Drawing 5013381-CA-2100. While the erosion and sediment control design has been developed as part of this application, the contractor will be required to prepare and submit a Construction Management Plan (CMP) prior to the commencement of works. The CMP shall include a detailed Earthworks Management Plan (EMP) and Construction Stage Erosion and Sediment Control Plan (ESCP), prepared by the contractor and aligned with the approved design while incorporating the final construction methodology, sequencing, and site management practices. Refer to the CMP Prepared by RCP dated 2 November 2026.

2.1 Minimise Exposed Areas & Stage Construction

The duration of time that areas are exposed for is to be as limited as practical. Any stockpiled material will be covered when the site is not being worked and during periods of heavy rainfall. The site is not to contain any large or long-term stockpiles.

2.2 Clean-Water Diversion

The volume of clean runoff entering the earthworks area from adjacent catchments is expected to be negligible. Existing surface levels indicate that the footpaths along Princes Street and Alfred Street generally fall towards the road corridors and away from the site. Consequently, runoff from these surrounding paved areas will continue to be conveyed away from the earthworks area, minimising the potential for clean water to enter the works.

2.3 Stormwater Inlet Protection

Existing catchpits on-site and in the adjacent areas will be protected by silt socks. These should be assessed regularly and replaced when significant volumes of sediment have accumulated.

2.4 Treatment of Sediment-Laden Water

Sediment-laden water generated within the building excavation will be treated using a proprietary sediment treatment system, such as a lamella settlement device (e.g. Siltbuster), prior to discharge to the existing stormwater network. Runoff will be collected from a low point within the excavation extent and pumped through the treatment system before discharge. All erosion and sediment control infrastructure is to be designed, installed, and operated in accordance with GD05.

Alternatively, two Decanting Earth Bunds (DEBs) may be installed at low points within the excavation extent, with each DEB receiving approximately half of the total excavation catchment area and providing sediment treatment prior to pumped discharge to the existing stormwater network.

2.5 Stockpiling

Where possible, stockpiling of soils will be kept to a minimum. However, where stockpiling is required, soils will be covered by appropriate material to prevent ingress of rainfall.

2.6 Weather

Earthworks in heavy rain are to be avoided.

2.7 Truck Wheel Wash

A truck wheel wash shall be provided.

2.8 Stabilised Access

Access to the site shall be constructed in accordance with the CMP prepared by RCP. Two separate construction access points will be provided in accordance with the construction methodology, compromising two access from Alfred St. The access points shall be stabilised and constructed in accordance with GD05 to minimise the tracking of sediment onto the surrounding road network.

2.9 Dust Control

The recommended dust controls have been developed in accordance with relevant recommendations of the Ministry for the Environment Good Practice Guide for Assessing and Managing the Environmental Effects of Dust Emissions (MfE, 2016). Further details of the designed dust control measures and assessment of potential air quality effects are provided in the Air Quality Assessment revision 2 dated 20 October prepared by Tonkin & Taylor.

The following dust control measures are suggested for all general activities:

- Sufficient water should be made available for dust control and used to wet excavation works/drilling works if necessary.
- Review daily forecast wind speed, wind direction and soil conditions before commencing activities with high dust potential.
- The area of surfaces covered with fine materials should be minimised and exposed surfaces should be stabilised wherever practicable, excavated material can be placed in skip bins or directly into trucks where possible to minimise the need for stockpiling if required.
- If required, dust shielding (such as shelter cloth on fences) could be installed where practicable.

2.10 Stabilisation

A stabilised surface is defined as inherently resistant to erosion or rendered resistant, such as by:

- Applying geotextile or another method to cover the erodible surface.
- Installing riprap.

Temporary stabilisation of exposed slopes before a rain event should be done by applying a geotextile or equivalent to prevent erosion of exposed works areas.

Temporary stabilisation measures should be inspected after each rainfall event or periods of excessive wind. Once areas have been stabilised with riprap, they will be inspected weekly. Where there are signs of poor surface coverage, the areas will be repaired.

2.11 Winter Works

Where earthworks are undertaken during winter, works will be staged to minimise exposed areas and weather forecasts will be monitored regularly. Prior to forecast rainfall events, exposed surfaces and stockpiles will be stabilised or covered as necessary. Erosion and sediment controls will be inspected and maintained before and after significant rainfall events to ensure they remain effective.

2.12 Accidental Discovery Protocol

Should any unexpected archaeological, heritage, or contaminated material be encountered during earthworks, works in the immediate area shall cease immediately. The relevant procedures and notification requirements will be followed before works recommence as required under the AUP.

2.13 General Control Measures

Table 2-1: Erosion and Sediment Control Practices

Typical Control	Key Design Criteria	Relevant GD05 Section
Clean Water Diversion	Existing site levels direct most runoff away from the works area. Any clean runoff entering the earthworks area shall be diverted away from disturbed surfaces and sediment treatment devices where required.	E2.1 & E2.2
Stormwater Inlet Protection	Existing catchpits adjacent to the works shall be protected using silt socks or equivalent measures. Protection devices shall be inspected regularly and replaced or cleaned as required.	F1.6
Proprietary Treatment Device	Sediment-laden water generated within excavations shall be collected and treated through a proprietary settlement system prior to discharge. The device shall be operated and maintained in accordance with the manufacturer's recommendations. Accumulated sludge shall be removed as required to maintain treatment efficiency.	F2.0
Stabilised Construction Access	Construction access points shall be stabilised in accordance with GD05 to minimise sediment tracking onto Alfred Street and surrounding roads. Wheel wash facilities shall be provided.	G4.0
Stabilisation of Exposed Areas	Exposed surfaces and stockpiles shall be stabilised or covered where practical. Temporary stabilisation measures may include geotextile cover, aggregate, mulch, or riprap.	E3.0
Dust Control	Dust generation shall be visually monitored and controlled through water spraying, minimising exposed fine materials, covering stockpiles where required, and limiting dust-generating activities during adverse weather conditions.	G9.0

2.14 Monitoring and Maintenance of Control Plan

The following monitoring and maintenance activities shown in Table 2-2 will form part of the Contractors ESCP and will be completed as necessary:

Table 2-2 Monitoring and Maintenance Activities

Control Type	Inspection and Maintenance Requirements	Frequency
Weather Forecast	• Check Metservice New Zealand for rainfall forecasts.	Daily
Catchpit Protection	• Check that all points where runoff enters the catch pit are protected. • Remove sediment build up and clean or replace the geotextile fabric.	Daily As required
Monitoring of Sediment Discharge	• Check whether erosion and sediment devices are operating as designed. • Inspect areas of earthworks and identify whether additional erosion and sediment control measures are necessary.	Daily & During rainfall events

Control Type	Inspection and Maintenance Requirements	Frequency
Proprietary Treatment Device	• Inspect the treatment device daily and before and after rainfall events to ensure it is operating as designed. • Check pumps, hoses, inlet and outlet connections, and settlement chambers for blockages, damage, or excessive sediment accumulation. • Remove accumulated sediment and sludge as required to maintain treatment efficiency and in accordance with the manufacturer's recommendations	Daily, before and after rainfall event. As required.

3 Conclusions

The erosion and sediment control measures outlined in this Plan have been developed to minimise the potential for sediment discharge, dust generation, and other environmental effects associated with the designed earthworks and construction activities for the University of Auckland Student Centre and Library project.

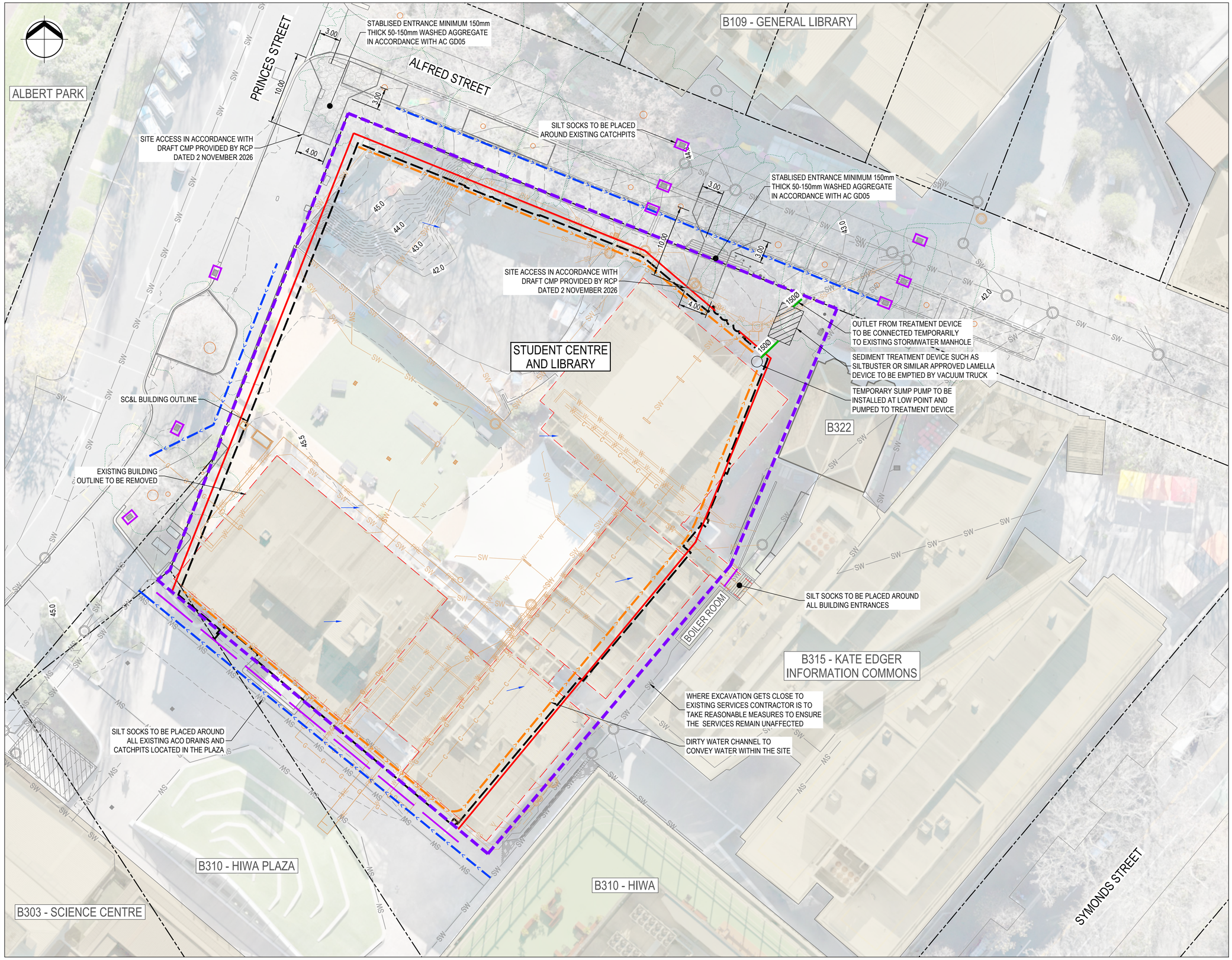
The designed controls include clean water diversion, catchpit protection, treatment of sediment-laden water, stabilised construction access, temporary stabilisation measures, stockpile management, and dust control practices. Monitoring and maintenance procedures have also been identified to ensure that erosion and sediment control measures remain effective throughout the construction period.

Subject to the implementation, monitoring, and maintenance of the designed controls, the potential adverse effects of the designed earthworks on the receiving environment and the existing stormwater network are expected to be appropriately managed during the construction phase.

D1

Appendix D1 – Erosion and Sediment Control Drawings

Drawing Plotted: 12 Nov 2026 2:09 p.m.



LEGEND:

- EXTENT OF EARTHWORKS
- CADASTRAL BOUNDARY
- NEW BUILDING OUTLINE
- EXISTING BUILDINGS
- 41.0 EXISTING CONTOUR MAJOR (1.0m)
- 40.75 EXISTING CONTOUR MINOR (0.25m)
- FLOW DIRECTION
- SILT FENCE
- SILT SOCK
- LAMELLA DEVICE
- DIRTY WATER CHANNEL
- CLEAN WATER DIRECTION
- TEMPORARY STORMWATER CONNECTION
- SW EXISTING STORMWATER
- SW EXISTING STORMWATER TBA
- SS EXISTING WASTEWATER TBA
- C EXISTING COMMS TBA
- G EXISTING GAS MAIN TBA
- W EXISTING WATER MAIN TBA
- FIRE EXISTING FIRE WATER TBA
- EXISTING TREE TRUNK & DRIPLINE

NOTES:

1. CLEAN WATER RUNOFF FROM ADJACENT ROADS AND UNDISTURBED AREAS SHALL BE PREVENTED FROM ENTERING THE CONSTRUCTION AREA BY MEANS OF TEMPORARY BUNDS, BARRIERS, OR EQUIVALENT DIVERSION MEASURES. CLEAN WATER SHALL BE DIVERTED TO THE EXISTING STORMWATER NETWORK.
2. THIS DRAWING IS A DRAFT EROSION AND SEDIMENT CONTROL PLAN AND IS PROVIDED AS A GUIDELINE FOR THE MINIMUM CONTROLS REQUIRED. FINAL EROSION AND SEDIMENT CONTROLS SHALL BE CONFIRMED ON SITE AND MAY NEED TO BE MODIFIED AS EXCAVATION PROGRESSES.
3. THE CONTRACTOR SHALL PREPARE AND SUBMIT A STAGED EROSION AND SEDIMENT CONTROL PLAN IN ADVANCE OF ANY CLEARANCE OR EARTHWORKS.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH AUCKLAND COUNCIL GUIDELINE DOCUMENT 2016/005 "EROSION AND SEDIMENT CONTROL GUIDE FOR LAND DISTURBING ACTIVITIES IN THE AUCKLAND REGION" (AC GD05).
5. THE CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL FEATURES IN ACCORDANCE WITH AC GD05, RELEVANT AUCKLAND COUNCIL STANDARDS, AND ALL RESOURCE CONSENT CONDITIONS AT ALL TIMES. ANY MODIFICATIONS TO THE CONSENTED EROSION AND SEDIMENT CONTROL DRAWING MUST BE APPROVED BY AUCKLAND COUNCIL PRIOR TO CONSTRUCTION.
6. PERMANENT STORMWATER CONTROLS SHALL BE INSTALLED AS EARLY AS PRACTICABLE TO PROVIDE CLEAN WATER DIVERSION AND EARTHWORKS RUNOFF MANAGEMENT.
7. CONTRACTOR SHALL INSTALL PERMANENT STORMWATER WORKS FIRST WHERE NECESSARY FOR USE AS CLEAN WATER CHANNELS AND EARTHWORKS RUNOFF CHANNELS.
8. EXISTING STORMWATER INFRASTRUCTURE TO REMAIN, INCLUDING ACO DRAINS, CATCH PITS, SHALL BE PROTECTED USING SUITABLE SEDIMENT CONTROL MEASURES TO COMPLY WITH GD05 FOR THE DURATION OF WORK.
9. THE SEDIMENT TREATMENT DEVICE SHALL BE FINALISED BY THE CONTRACTOR AFTER CONSIDERING SITE CONSTRAINTS. THE FINAL DEVICE SHALL BE APPROVED AND AGREED WITH AUCKLAND COUNCIL PRIOR TO CONSTRUCTION.
10. SURFACE AREAS OUTSIDE THE EXTENT OF EXCAVATION SHALL BE STABILISED FOLLOWING DEMOLITION WORKS. THESE AREAS SHALL BE GRADED TO ENSURE CLEAN WATER RUNOFF SHEET FLOWS TOWARD THE SITE BOUNDARY. WHERE LOCALISED AREAS ARE DISTURBED FOR MINOR WORKS, APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED.
11. PROVIDE WHEEL WASHING FACILITIES IF REQUIRED.

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
B	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
A	REVISED CONCEPT DESIGN	SZ	RR	CJB	28.09.26

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Design	L.CAMERON	21.08.26	Approved For Construction*
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Dsg Verifier	C.BREYTENBACH	30.10.26	
Drg Check	R.GARCIA	28.10.26	Date

* Refer to Revision 1 for Original Signature

Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: EROSION AND SEDIMENT CONTROL LAYOUT

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-2100

Rev.: B

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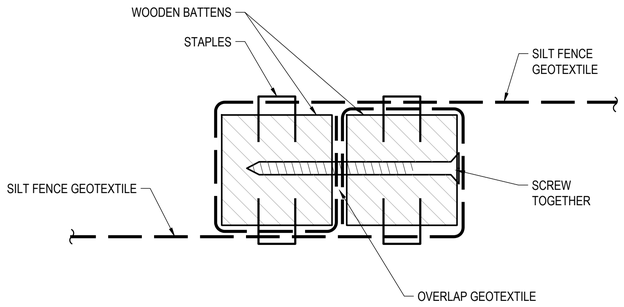
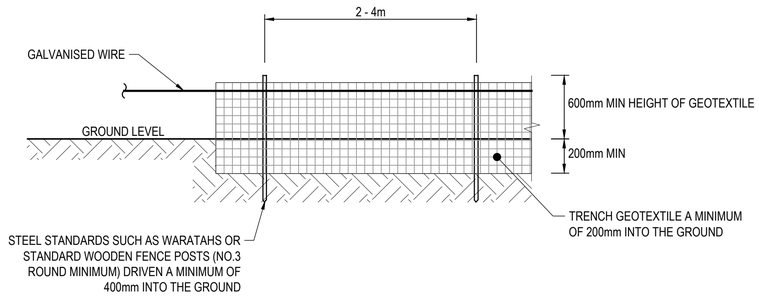


SILT FENCE GEOTEXTILE JOIN SECTIONAL PLAN
NTS

POST SPACING CAN BE INCREASED FROM 2 METRES TO 4 METRES IF SUPPORTED BY A 2.5mm DIAMETER HIGH TENSILE WIRE ALONG THE TOP WITH CLIPS EVERY 500mm



SILT FENCE ELEVATION
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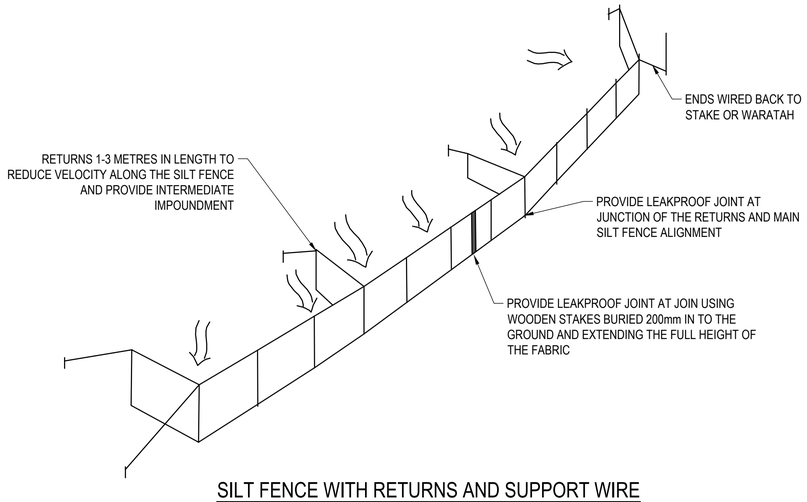
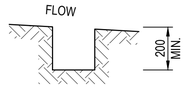


SILT FENCE WITH RETURNS AND SUPPORT WIRE
NTS

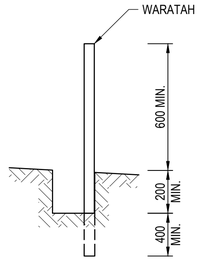
STEP 1

DIG A 200mm DEEP TRENCH



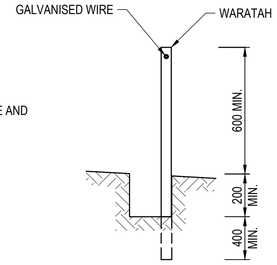
STEP 2

HAMMER IN 1m WARATAHS OR WOODEN FENCE POST 200mm INTO THE TRENCH, THEREFORE 600mm BELOW ORIGINAL GROUND LEVEL



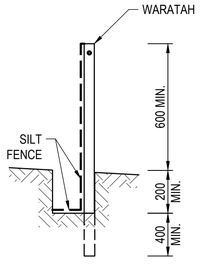
STEP 3

INSTALL SINGLE GALVANISED WIRE AND TENSION IT AT 50m INTERVALS



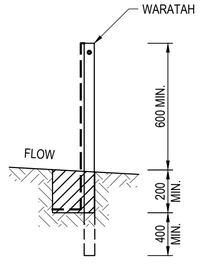
STEP 4

INSTALL SINGLE LAYER OF SILT FENCE GEOTEXTILE FABRIC HARD AGAINST THE SIDE OF THE TRENCH (800mm TOTAL HEIGHT)



STEP 5

BACK FILL AND COMPACT WELL (CRITICAL)



SILT FENCE CONSTRUCTION METHOD
NTS



STORMWATER INLET PROTECT - SILT SOCK

NOTES:

1. REFER TO DRAWING 5013381-CA-2100 FOR LOCATION OF STABILISED ENTRANCEWAY ON PROPERTY BOUNDARY.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
4. SEDIMENT CONTROL SHALL COMPLY AND BE INSTALLED AND OPERATIONAL BEFORE EARTHWORKS START ONSITE IN ACCORDANCE WITH AUCKLAND'S GD05 STANDARDS.

No.	Revision	By	Chk	Appd	Date
B	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
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Dsg Verifier	C.BREYTENBACH	30.10.26	
Drg Check	R.GARCIA	28.10.26	Date

* Refer to Revision 1 for Original Signature

Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: EROSION AND SEDIMENT CONTROL DETAILS SHEET 1

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-2101

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NOTES:

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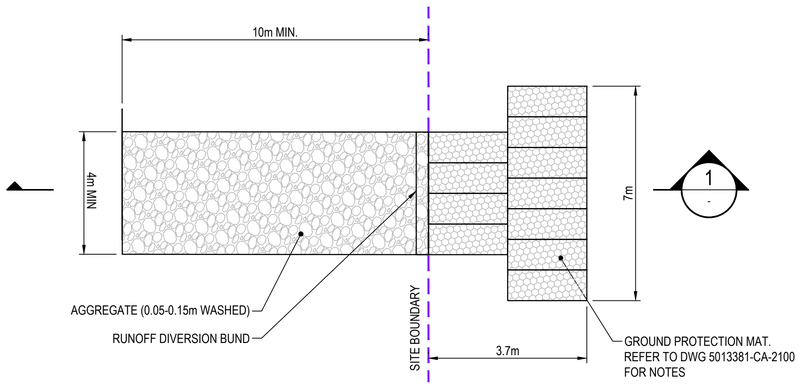

STABILISED ENTRANCEWAY - PLAN
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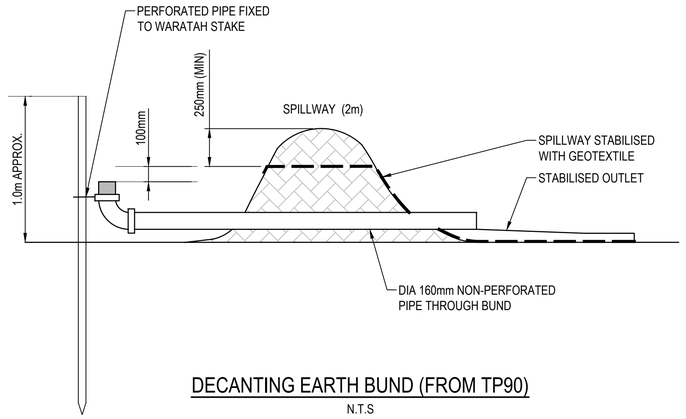

DECANTING EARTH BUND (FROM TP90)
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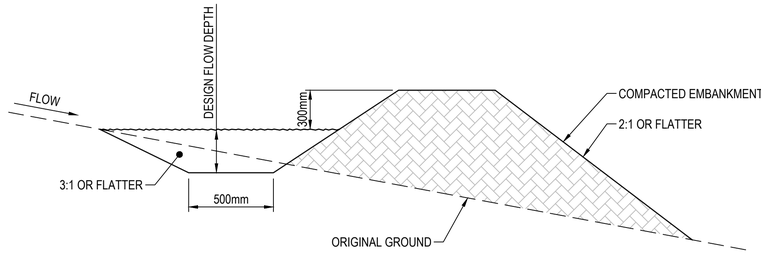

DIRTY WATER RUN-OFF DIVERSION CHANNEL
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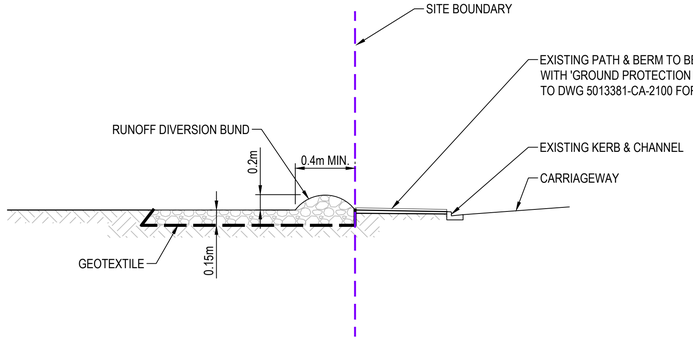

1 - SECTION - STABILISED ENTRANCEWAY
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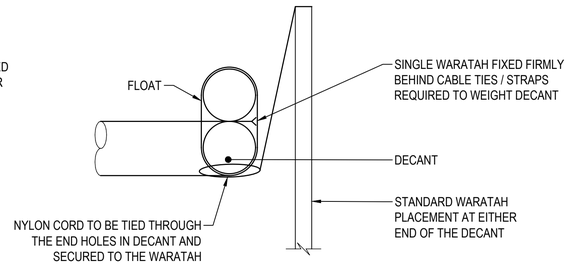

DECANT DETAILS
N.T.S



SILT SOCK FOR PERIMETER

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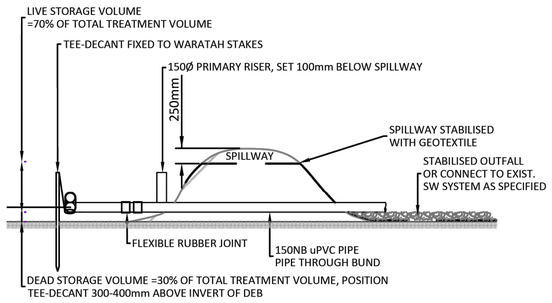
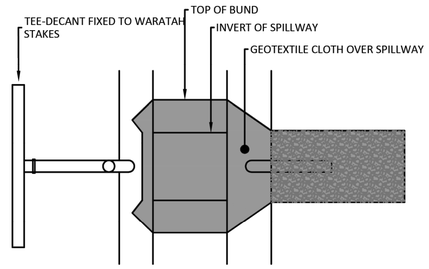
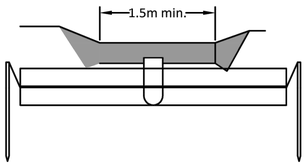


DECANTING EARTH BUND CROSS-SECTION



DECANTING EARTH BUND LAYOUT



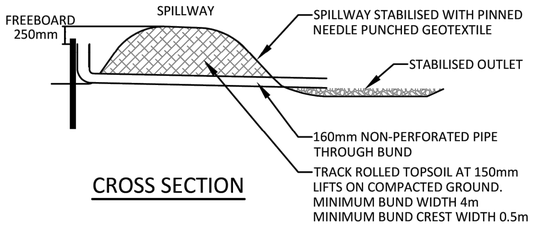
SPILLWAY ELEVATION

DECANTING EARTH BUND

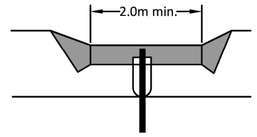
MAXIMUM CATCHMENT 0.3ha
2% VOLUME (60m^3 PER 0.3ha CATCHMENT)

NOTE: THE 100mm DIAMETER PVC PIPE UPSTAND IS ONLY REQUIRED WHERE THE 2m WIDE EMERGENCY SPILLWAY DISCHARGES TO VULNERABLE AREA OR WHERE THE DISCHARGE IS REQUIRED TO BE PIPED TO A SAFE OUTFALL SUCH AS A STORMWATER MANHOLE. IF THE UPSTAND IS NOT REQUIRED THE DECANT CAN BE CONNECTED DIRECT TO A 40mm DIAMETER OUTFALL PIPE AND THE TREATMENT VOLUME IS MEASURED TO THE INVERT OF THE EMERGENCY SPILLWAY.

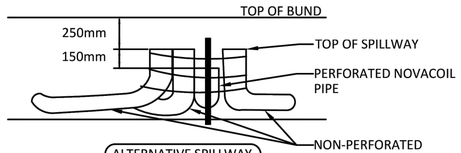
NOTE: THE DECANT HAS A 40mm DIAMETER PVC PIPE WITH A 1.3m LONG ARM (INCLUDING FLEXIBLE JOINT), A 0.5m LONG DECANT AND 20 x 10mm DIAMETER EQUALLY SPACED HOLES POSITIONED HORIZONTALLY AT 10 AND 2 OCLOCK



CROSS SECTION



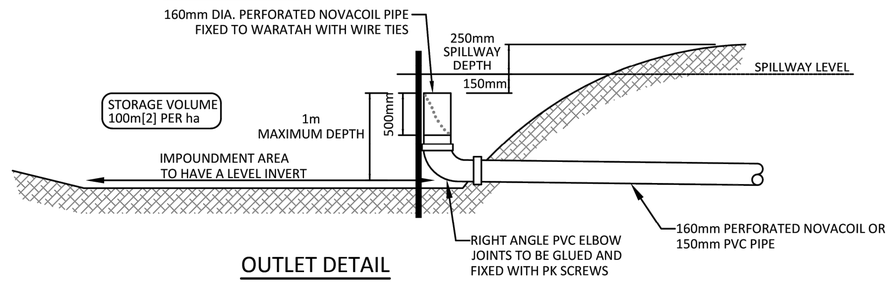
ELEVATION



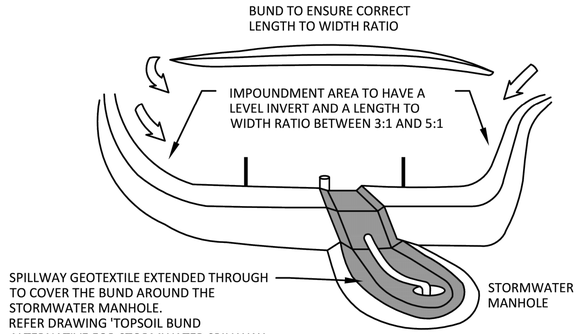
ALTERNATIVE SPILLWAY DESIGN USING NON-PERFORATED NOVACOILS

1% DECANTING TOPSOIL BUND

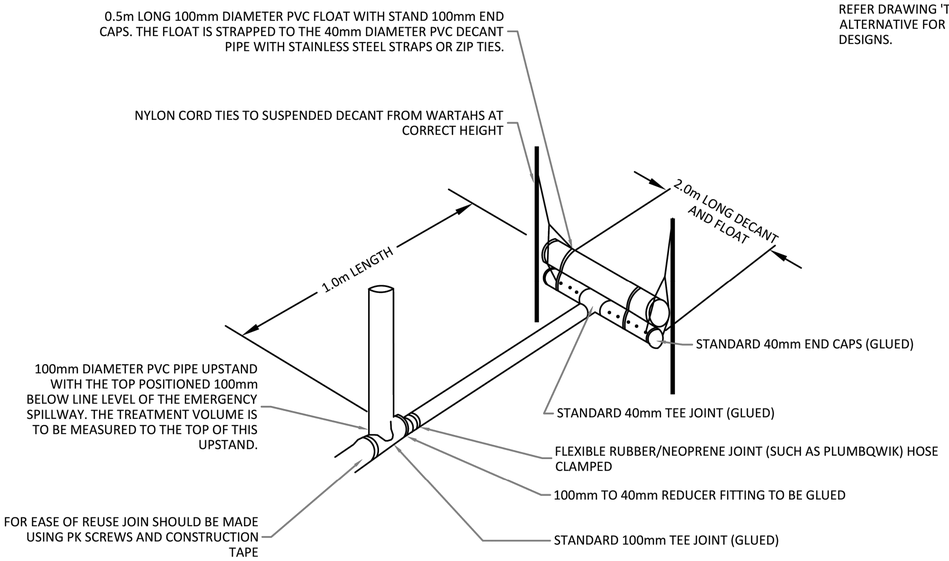
MAXIMUM CATCHMENT IS 1ha IF THE MAXIMUM SLOPE IS LESS THAN 10% AND THE SLOPE LENGTH IS LESS THAN 200m, OTHERWISE THE MAXIMUM CATCHMENT IS 0.3ha. DECANTING TOPSOIL BUNDS ARE ONLY TO BE USED FOR TOPSOILED/STABILISED CATCHMENTS.



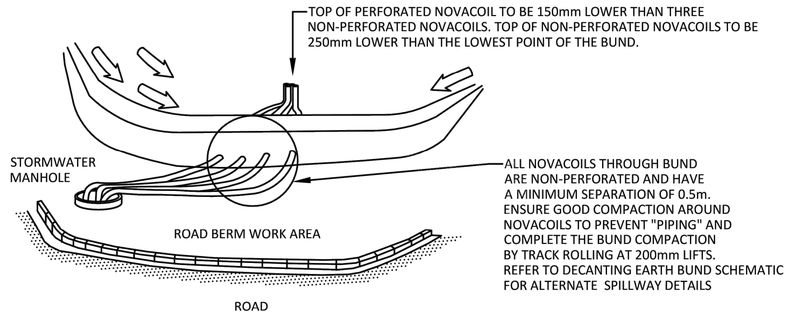
OUTLET DETAIL



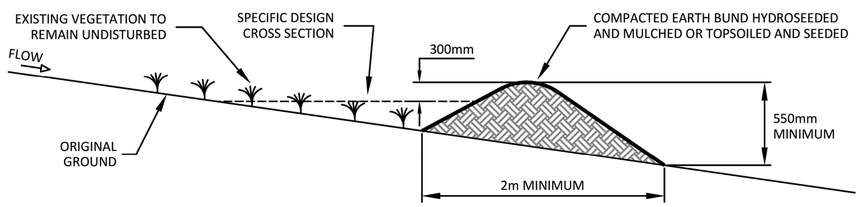
DECANTING EARTH BUND



40mm DECANT WITH UPSTAND FOR DECANTING EARTH BUND



DECANTING TOPSOIL BUND



CLEANWATER RUNOFF DIVERSION BUND - CROSS SECTION

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
B	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
A	REVISED CONCEPT DESIGN	SZ	RR	CJB	28.09.26

Original Scale (A1)	N.T.S	Approved For Construction*	
Reduced Scale (A3)	N.T.S		
Design	L.CAMERON	21.08.26	
Drawn	A.FRANCOMBE	21.08.26	
Dsg Verifier	C.BREYTENBACH	30.10.26	
Drg Check	R.GARCIA	28.10.26	Date
* Refer to Revision 1 for Original Signature			

Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: EROSION AND SEDIMENT CONTROL DETAILS SHEET 3

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-2103

Rev.: B

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Document No.: 5013381-CA-2103.DWG

DO NOT SCALE FOR SET OUT DIMENSIONS

IF IN DOUBT ASK.

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