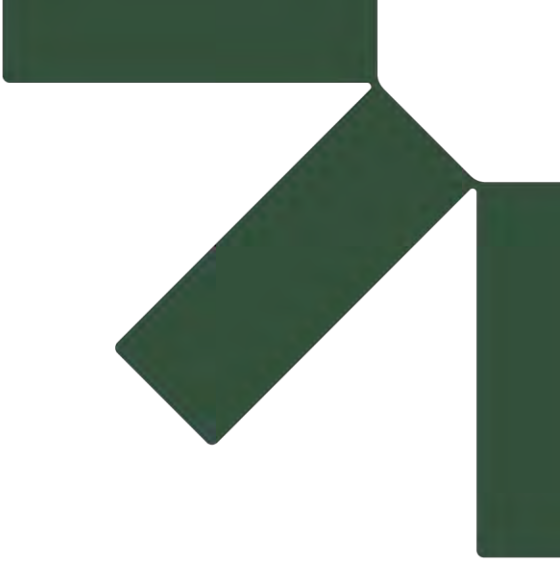




Appendix J: Consultation & Written Approvals

Resource Consent Application

Tokanui Landfill Upgrades

Toitū Te Whenua Land Information New Zealand

SLR Project No.: 880.V11547.00002

21 November 2024

Written Approval of Affected Persons

Form 8a of the Resource Management Regulations 2003.

Affected persons written approval to an activity that is the subject of a resource consent application.

Note to affected person(s) signing written approval form:

Before asking for your written approval the applicant should fully explain the proposal to you. You should look at the application containing a description of the activity and the accompanying plans. If you decide to give written approval to this application, you must complete the form and sign the applicant's plans. You should only sign this form if you fully understand the proposal. You should seek expert or legal advice if you need the proposal or resource consent process explained to you. You may also contact Council for assistance.

Conditional written approval **cannot** be accepted. There is no obligation to sign this form, and no reasons need to be given. If signing on behalf of a trust or company, please provide additional written evidence that you have signing authority.

To be completed by the applicant

To: Name of Council that is the consent authority for this application: [Waipa District Council](#)

Applicant Name

Full name:

Toitū Te Whenua Land Information New Zealand

Contact daytime phone:

Bryan Daly 027 264 6885

Location of Proposed Activity

Please complete with as many details as you can, so the site for your proposal is clearly identifiable. Include details such as unit number, street number, street name and town.

Property address:

Former Tokanui Hospital Site, 149 Te Mawhai Road, Kihikihi

Legal description:

Section 1 SO 44852

Description of Proposed Activity

Please provide a brief description of your proposal, including which District Plan Rules or standards are infringed.

Landfill upgrade including reopening, adding new material, consolidating existing material and closing/recapping, culvert removal



V2 | 20.11.19

To be completed by affected person:**Owner to Complete**

I/we are also the occupier(s)

Full name of all property owners:

AgResearch Limited

Being the owner/s of Street address:

Farm Road, Tokanui

Legal description:

Lot 2-3 Deposited Plan South Auckland, 68439 and Section 1 Survey Office Plan.



I/we have authority to sign on behalf of all of the owners of the property.



I/we have read the full application for resource consent, the Assessment of Environmental Effects and any associated plans.



I/we have signed and dated each page.



Declaration: In signing this written approval, I/we understand that Council must decide that I/we are no longer an affected person, and Council must not have regard to any adverse effect on me/us.



I/we understand that I/we may withdraw my/our written approval by giving written notice to Council before the hearing, if there is one, or, if there is not, before the application is determined.

Signed (All owners or authorised persons):

Prop Lead
Business Manager, Infrastructure.

Date:

12/11/24.

Fax/Email:

Contact Phone Number:

027 5555641.

Postal Address:

Private Bag 4749
Christchurch 8140-

Occupier to Complete

I/we are also the occupier(s)

Full name of all occupiers:

Being the occupiers of Street address:

Legal description:



I/we have authority to sign on behalf of all of the occupiers of the property.



I/we have read the full application for resource consent, the Assessment of Environmental Effects and any associated plans.



I/we have signed and dated each page.



Declaration: In signing this written approval, I/we understand that Council must decide that I/we are no longer an affected person, and Council must not have regard to any adverse effect on me/us.



I/we understand that I/we may withdraw my/our written approval by giving written notice to Council before the hearing, if there is one, or, if there is not, before the application is determined.

Signed (All occupiers or authorised persons):

Date:

Fax/Email:

Contact Phone Number:

Postal Address:

FORMER TOKANUI HOSPITAL

DEMOLITION AND REMEDIATION PROJECT

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND



33097

RESOURCE CONSENT

ISSUE SET 3

21/11/24

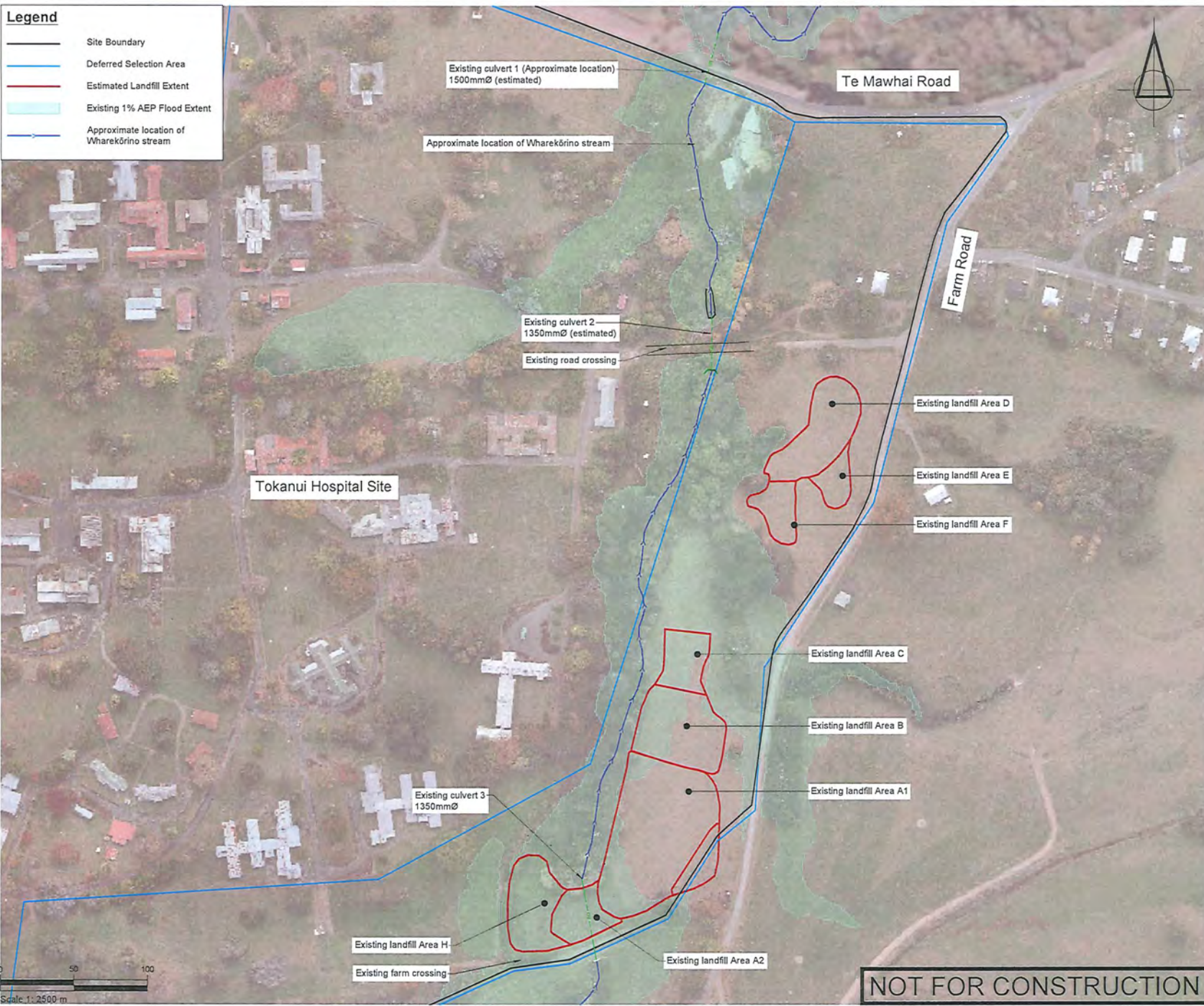
LIST OF DRAWINGS

DRAWING	DRAWING TITLE	ISSUE SET		
		1	2	3
33097/LF001	EXISTING LANDFILL OVERVIEW PLAN	-	-	-
33097/LF002	INTRUSIVE GROUND INVESTIGATION TEST PIT LOCATION PLAN 1 OF 3	-	-	-
33097/LF003	INTRUSIVE GROUND INVESTIGATION TEST PIT LOCATION PLAN 2 OF 3	-	-	-
33097/LF004	INTRUSIVE GROUND INVESTIGATION TEST PIT LOCATION PLAN 3 OF 3	-	-	-
33097/LF010	PROPOSED LANDFILL REMEDIAL WORKS SITE OVERVIEW PLAN	-	-	-
33097/LF100	EXISTING LANDFILL AREAS D, E AND F PLAN	-	-	-
33097/LF110	PROPOSED NORTHERN DISPOSAL SITE CELL PROPOSED FINAL DESIGN PLAN	-	-	-
33097/LF120	PROPOSED NORTHERN DISPOSAL SITE CELL BASE OF CELL LEVELS PLAN	-	-	A
33097/LF121	PROPOSED NORTHERN DISPOSAL SITE CELL FINISHED GROUND LEVELS PLAN	-	-	-
33097/LF130	PROPOSED NORTHERN DISPOSAL SITE CELL CROSS SECTIONS	-	-	-
33097/LF140	PROPOSED NORTHERN DISPOSAL SITE CELL CELL FORMATION CUT AND FILL PLAN	-	-	-
33097/LF141	PROPOSED NORTHERN DISPOSAL SITE CELL FILLING PLAN	-	-	-
33097/LF190	PROPOSED NORTHERN DISPOSAL SITE CELL EROSION AND SEDIMENT CONTROL PLAN PHASE 1	-	-	-
33097/LF191	PROPOSED NORTHERN DISPOSAL SITE CELL EROSION AND SEDIMENT CONTROL PLAN PHASE 2	-	-	-
33097/LF200	EXISTING LANDFILL AREAS A1, B, AND C PLAN	-	-	-
33097/LF210	PROPOSED SOUTHERN DISPOSAL SITE CELL PROPOSED FINAL DESIGN PLAN	-	-	A
33097/LF219	PROPOSED SOUTHERN DISPOSAL SITE CELL PROPOSED TOE BUND PLAN	-	-	-
33097/LF220	PROPOSED SOUTHERN DISPOSAL SITE CELL BASE OF CELL LEVELS PLAN	-	-	A
33097/LF221	PROPOSED SOUTHERN DISPOSAL SITE CELL FINISHED GROUND LEVELS PLAN	-	-	A
33097/LF230	PROPOSED SOUTHERN DISPOSAL SITE CELL CROSS SECTIONS SHEET 1	-	-	A
33097/LF231	PROPOSED SOUTHERN DISPOSAL SITE CELL CROSS SECTIONS SHEET 2	-	-	-
33097/LF238	PROPOSED SOUTHERN DISPOSAL SITE CELL REFUSE EXCAVATION PLAN	-	-	-
33097/LF239	PROPOSED SOUTHERN DISPOSAL SITE CELL TOE BUND CONSTRUCTION PLAN	-	-	-
33097/LF240	PROPOSED SOUTHERN DISPOSAL SITE CELL CELL FORMATION CUT AND FILL PLAN	-	-	A
33097/LF241	PROPOSED SOUTHERN DISPOSAL SITE CELL REFUSE FILLING PLAN	-	-	A
33097/LF250	PROPOSED SOUTHERN DISPOSAL SITE CELL GROUNDWATER DRAIN LONG SECTION AND DETAIL	-	-	A
33097/LF289	PROPOSED SOUTHERN DISPOSAL SITE CELL EROSION AND SEDIMENT CONTROL PLAN PHASE 0	-	-	-
33097/LF290	PROPOSED SOUTHERN DISPOSAL SITE CELL EROSION AND SEDIMENT CONTROL PLAN PHASE 1	-	-	A
33097/LF291	PROPOSED SOUTHERN DISPOSAL SITE CELL EROSION AND SEDIMENT CONTROL PLAN PHASE 2	-	-	A
33097/LF300	EXISTING LANDFILL AREAS A2 AND AREA H, AND EXISTING CULVERT 3 PLAN	-	-	-
33097/LF310	AREAS A2/H & CULVERT 3 PROPOSED FINAL DESIGN PLAN	-	-	A
33097/LF311	INDICATIVE VEGETATION REMOVAL PLAN	-	-	-
33097/LF320	AREAS A2/H & CULVERT 3 REFUSE UNDERCUT PLAN	-	-	-
33097/LF321	AREAS A2/H & CULVERT 3 FINISHED LEVELS PLAN	-	-	-
33097/LF330	AREAS A2/H & CULVERT 3 CROSS SECTION PLAN 1	-	-	-
33097/LF340	AREAS A2/H & CULVERT 3 UNDERCUT STRIP PLAN	-	-	-
33097/LF341	AREAS A2/H & CULVERT 3 FINAL LEVELS CUT AND FILL PLAN	-	-	-
33097/LF360	AREAS A2/H & CULVERT 3 CULVERT LONG SECTION PLAN	-	-	A
33097/LF390	AREAS A2/H & CULVERT 3 EROSION AND SEDIMENT CONTROL PLAN	-	-	A
33097/LF500	PROPOSED LANDFILL CELL TYPICAL DETAIL	-	-	-
33097/LF540	DECANTING EARTH BUND DIMENSIONS PLAN	-	-	-
33097/LF545	DECANTING EARTH BUND DETAILS	-	-	-
33097/LF550	EROSION AND SEDIMENT CONTROL DETAILS PAGE 1	-	-	-
33097/LF551	EROSION AND SEDIMENT CONTROL DETAILS PAGE 2	-	-	-

JDC

Legend

- Site Boundary
- Deferred Selection Area
- Estimated Landfill Extent
- Existing 1% AEP Flood Extent
- Approximate location of Wharekōrino stream



SURVEYED	DESIGNED	DRAWN	CHECKED	REVISION	CHANGES	CHECKED	DATE
TB	TB	TB	SF				

NOTES

PROJECT DATUMS:
 LEVEL: Auckland Vertical Datum 1946
 COORDINATE: New Zealand Transverse Mercator

CLIENT
 TOITU TE WHENUA LAND
 INFORMATION NEW ZEALAND

PROJECT
 FORMER TOKANUI HOSPITAL
 DEMOLITION AND REMEDIATION
 PROJECT

TITLE
 EXISTING LANDFILL OVERVIEW
 PLAN

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 HAWKE'S BAY 06 211 2766
 CHRISTCHURCH 03 358 5936
 DUNEDIN 03 428 3292
 NELSON 03 222 1132
 TAURANGA 07 220 9277

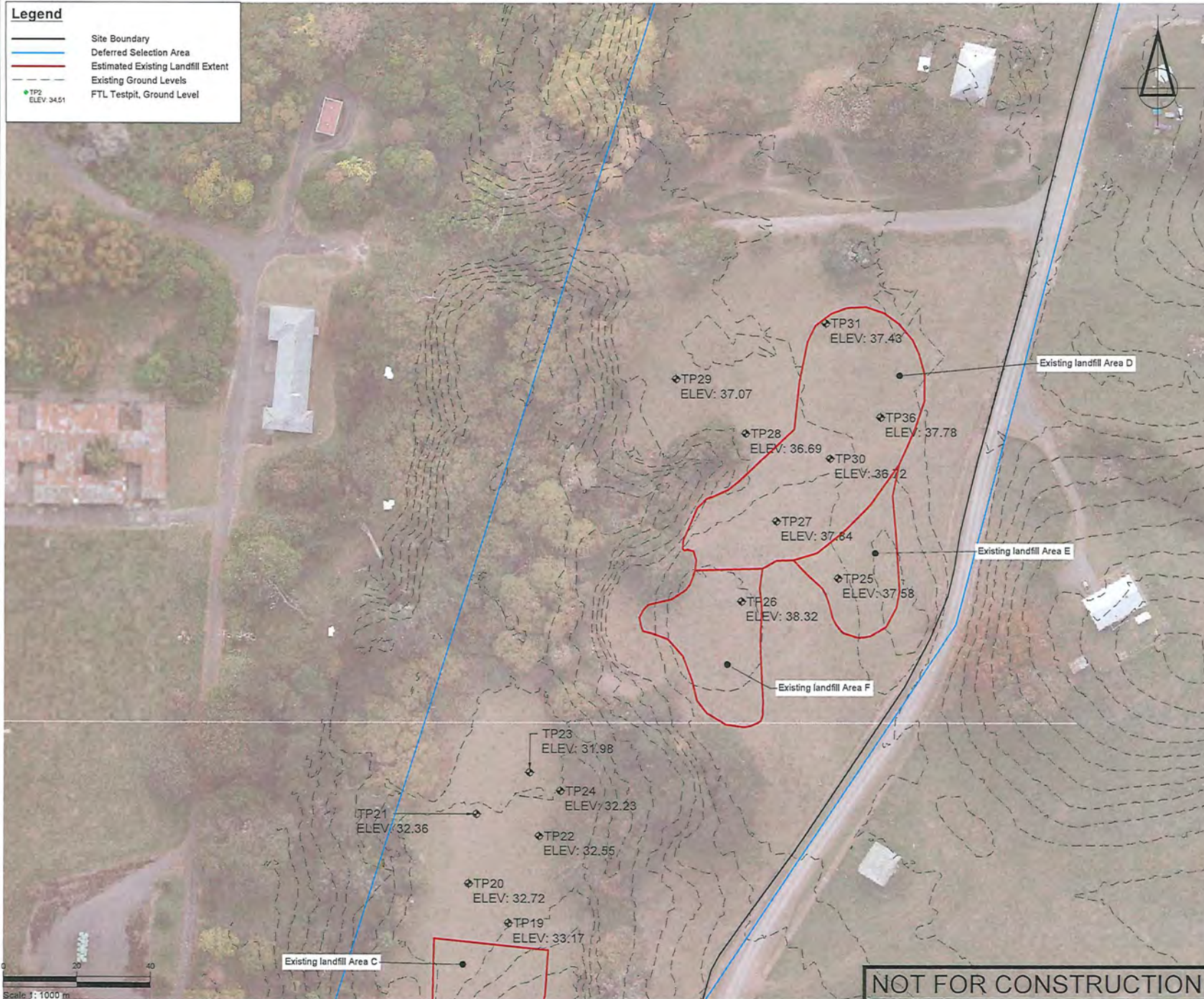
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STATUS
 FOR RESOURCE CONSENT
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SCALE	1:2500	(A3)
DRAWING NO.	33097/LF001	REVISION

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NOTES

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

TITLE

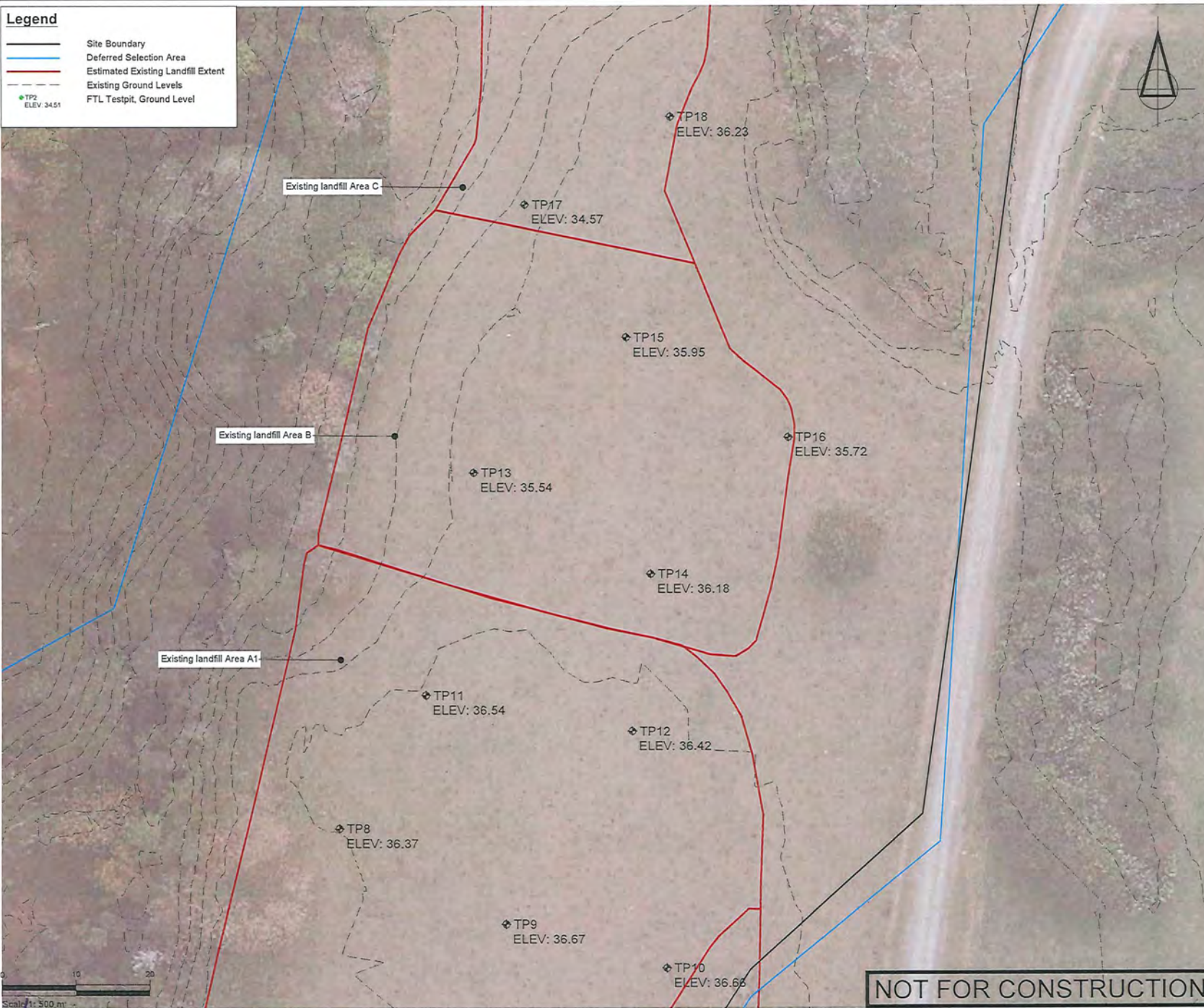
INTRUSIVE GROUND
INVESTIGATION TEST PIT
LOCATION PLAN 1 OF 3

FOR RESOURCE CONSENT
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SCALE	1:1000	(A2)
DRAWING No.	33097/LF002	REVISION
		-

NOT FOR CONSTRUCTION

- Legend**
- Site Boundary
 - Deferred Selection Area
 - Estimated Existing Landfill Extent
 - Existing Ground Levels
 - FTL Testpit, Ground Level



SURVEYED	TB	14/09/24	APPROVED	SF	DATE
DRAWN	TB	15/09/24			05/11/24
CHECKED	SF	05/11/24			
REVISION	CHANGES		CHECKED	DATE	

PROJECT DATUMS:
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TITLE
 INTRUSIVE GROUND
 INVESTIGATION TEST PIT
 LOCATION PLAN 2 OF 3



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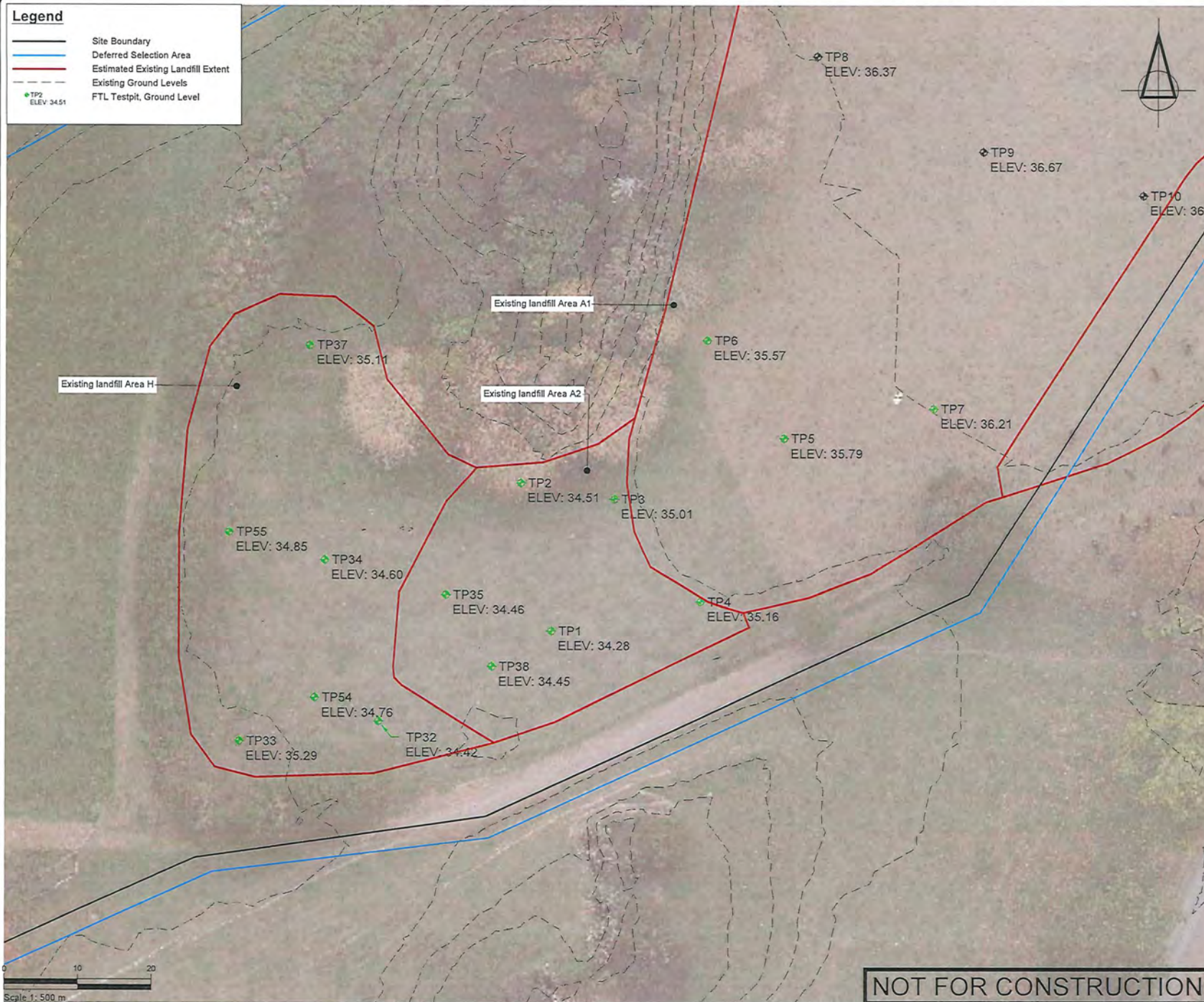
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DRAWING NO. 33097/LF003

REVISION -

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PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1949
COORDINATE: New Zealand Transverse Mercator

PROJECT
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PROJECT

TITLE

INTRUSIVE GROUND
INVESTIGATION TEST PIT
LOCATION PLAN 3 OF 3



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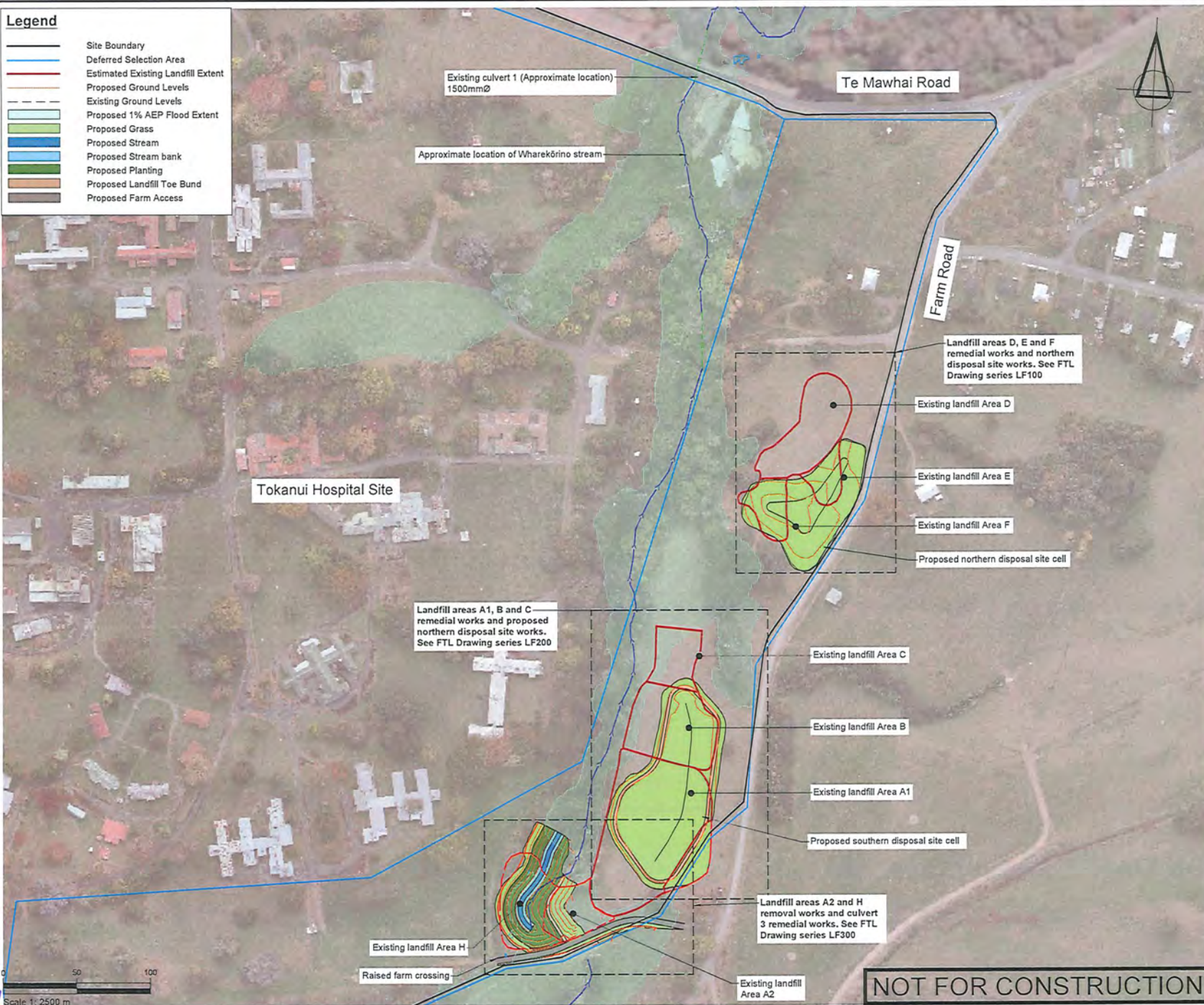
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

SCALE	1:500	(A)
DRAWING No.	33097/LF004	REVISION
		-

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Legend

- Site Boundary
- Deferred Selection Area
- Estimated Existing Landfill Extent
- Proposed Ground Levels
- Existing Ground Levels
- Proposed 1% AEP Flood Extent
- Proposed Grass
- Proposed Stream
- Proposed Stream bank
- Proposed Planting
- Proposed Landfill Toe Bund
- Proposed Farm Access



SURVEYED	DATE	APPROVED	DATE
TB	14/09/24	SF	05/11/24
DRAWN	DATE	CHECKED	DATE
TB	15/09/24	SF	05/11/24
REVISION	CHANGES	CHECKED	DATE
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PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

CLIENT
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INFORMATION NEW ZEALAND

PROJECT
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DEMOLITION AND REMEDIATION
PROJECT

TITLE
PROPOSED LANDFILL REMEDIAL
WORKS SITE OVERVIEW PLAN

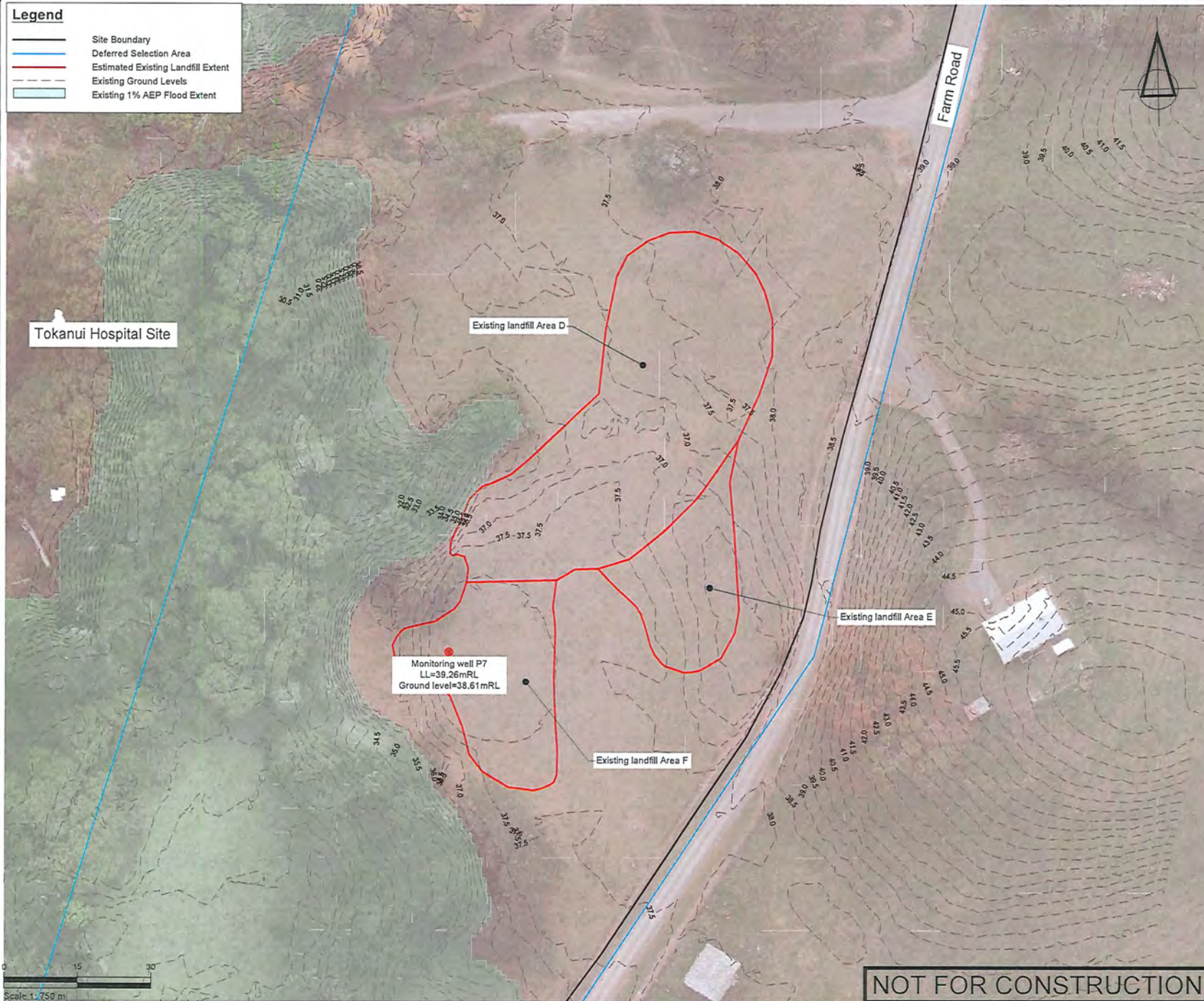
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DRAWING NO. 33097/LF010 REVISION A



NOTES

PROJECT DATUMS:

LEVEL: Auckland Vertical Datum 1948

COORDINATE: New Zealand Transverse Mercator

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EXISTING LANDFILL AREAS D, E
AND F PLAN



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CHRISTCHURCH

BLenheim

Nelson

TAURANGA

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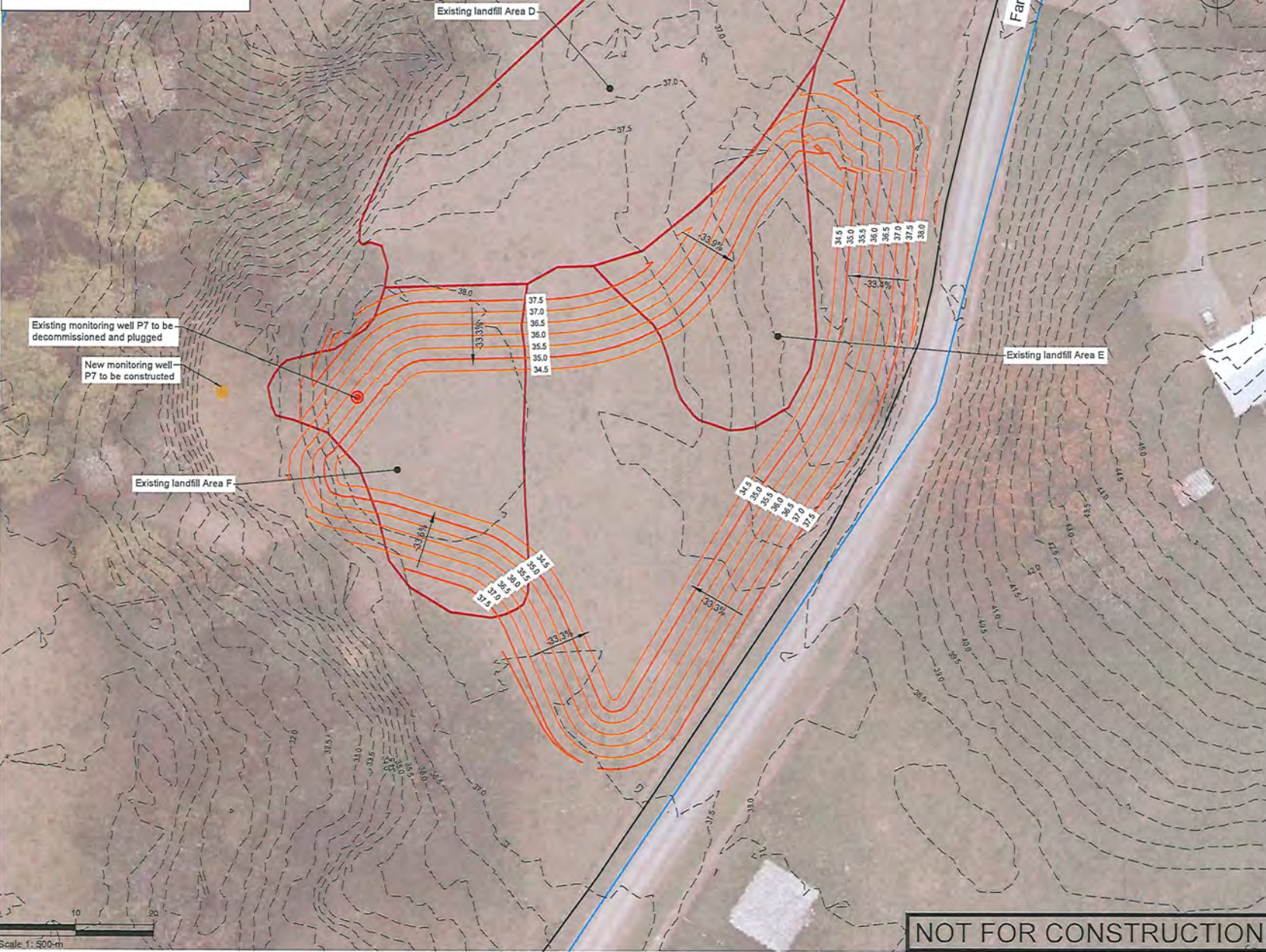
SCALE	1:750	(A)
DRAWING No	33097/LF100	REVISION
		-

NOT FOR CONSTRUCTION

PC

Legend

- Site Boundary
- Deferred Selection Area
- Estimated Existing Landfill Extent
- Existing Ground Levels
- Proposed Ground Levels



SURVEYED	DESIGNED	DRAWN	CHECKED	REVISION	CHANGES	APPROVED	DATE
TB	TB	TB	SF			SF	05/11/24
14/08/24	21/08/24	05/11/24					

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PROJECT DATUMS:
 LEVEL: Auckland Vertical Datum 1946
 COORDINATE: New Zealand Transverse Mercator

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PROJECT
 FORMER TOKANUI HOSPITAL
 DEMOLITION AND REMEDIATION
 PROJECT

TITLE
 PROPOSED NORTHERN
 DISPOSAL SITE CELL
 BASE OF CELL LEVELS PLAN



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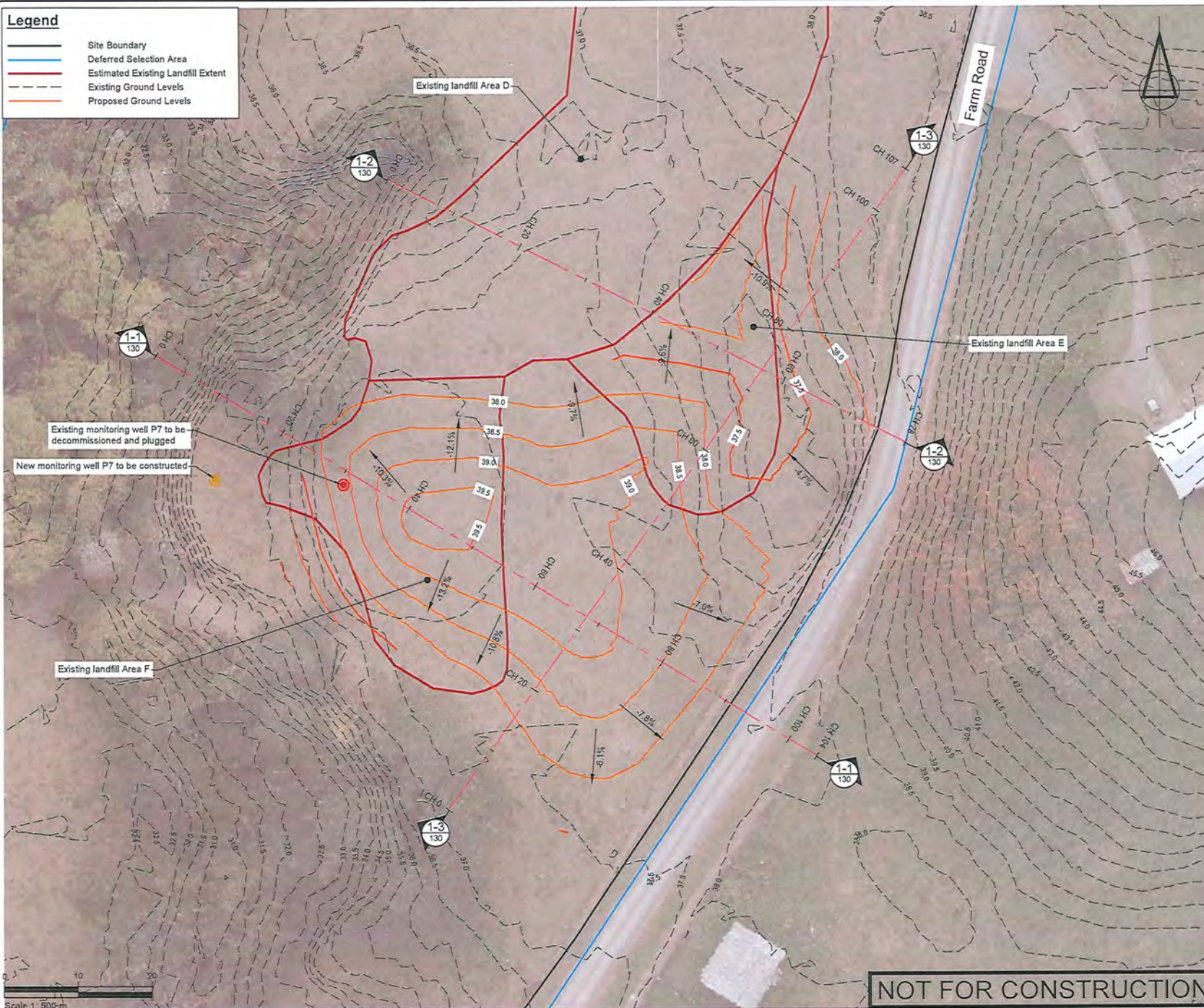
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SCALE 1:500 (A3)
 DRAWING NO. 33097/LF120
 REVISION -

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- Legend**
- Site Boundary
 - Deferred Selection Area
 - Estimated Existing Landfill Extent
 - Existing Ground Levels
 - Proposed Ground Levels



SURVEYED	DESIGNED	DRAWN	CHECKED	REVISION	CHANGES	CHECKED	DATE
TB	14/09/24	TB	21/09/24				
SF	05/11/24	SF	05/11/24				

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PROJECT DATUMS:
 LEVEL: Auckland Vertical Datum 1946
 COORDINATE: New Zealand Transverse Mercator

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 INFORMATION NEW ZEALAND

PROJECT
 FORMER TOKANUI HOSPITAL
 DEMOLITION AND REMEDIATION
 PROJECT

TITLE
 PROPOSED NORTHERN
 DISPOSAL SITE CELL
 FINISHED GROUND LEVELS
 PLAN

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 DRAWING NO. 33097/LF121
 REVISION

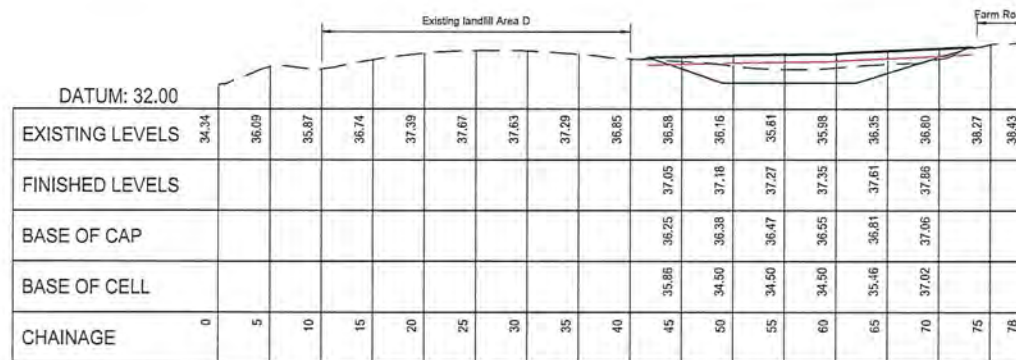
NOT FOR CONSTRUCTION

Legend

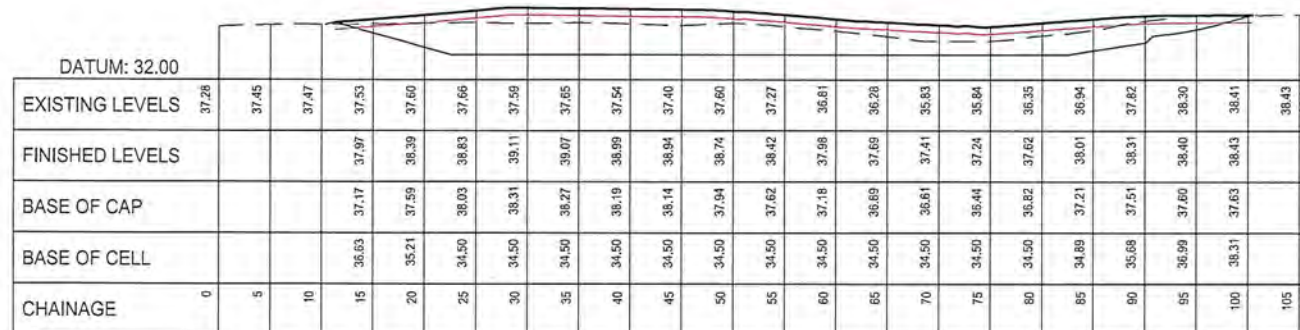
- Existing Ground
 Finished Ground
 Proposed Cap
 Proposed Cell Base



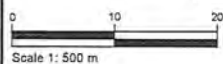
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121 1:500



1-2 Cross Section 1-2
121 1:500



1-3 Cross Section 1-3
121 1:500



NOT FOR CONSTRUCTION

[illegible]

NOTE

PROJECT DATUMS:

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

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TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT

PROJECT FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

[illegible]

PROPOSED NORTHERN DISPOSAL SITE CELL CROSS SECTIONS



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HAWKE'S BAY	06 211 2766
CHRISTCHURCH	03 358 5936
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STATM

FOR RESOURCE CONSENT

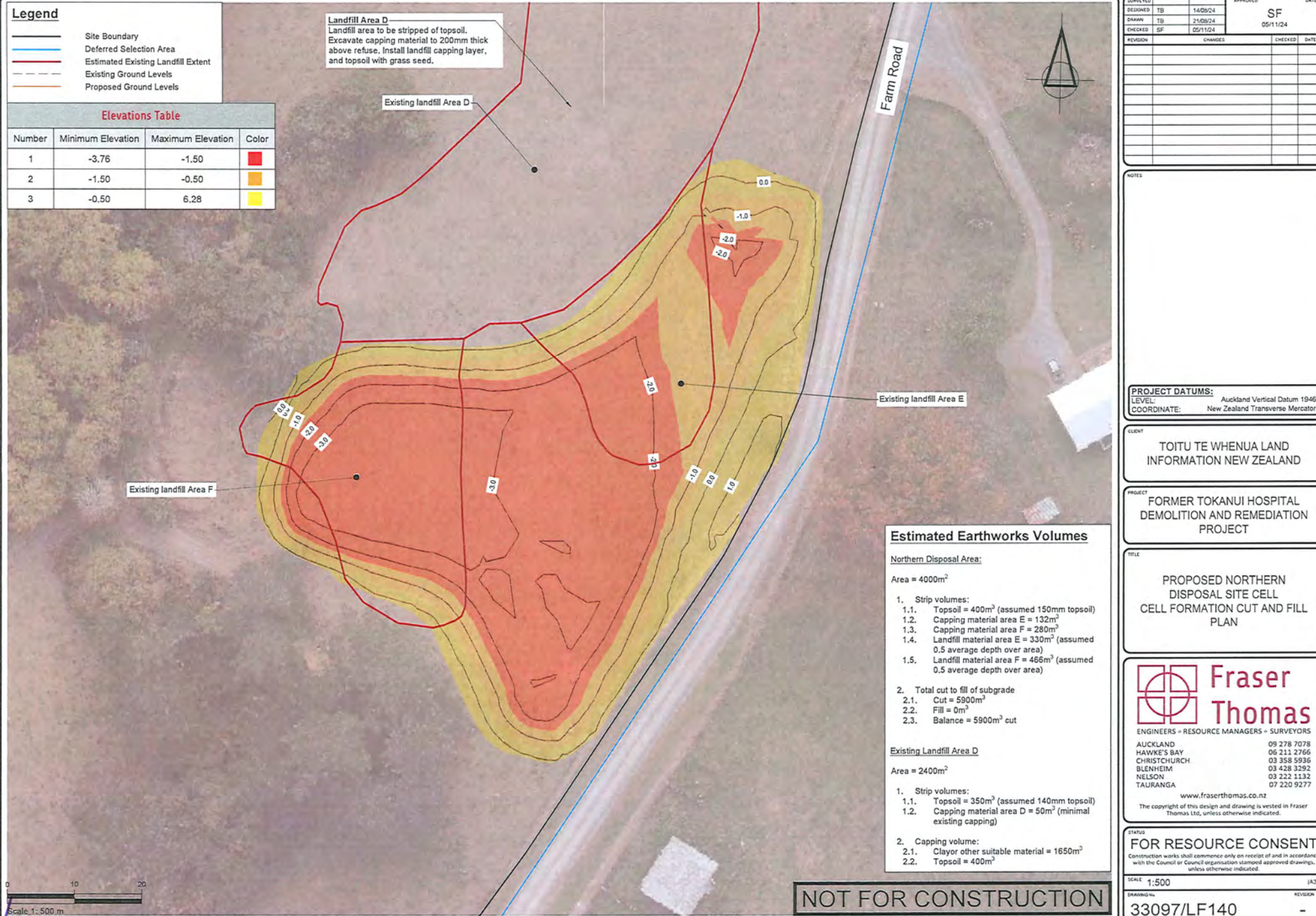
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

SCALE 1:500

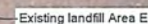
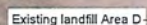
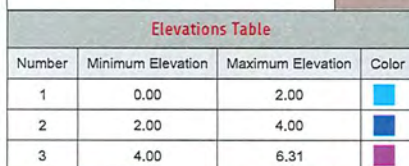
DRAWING No.
33097/LF130

Authors' disclosures of potential conflicts of interest and author contributions are found at the end of this article.

[illegible][illegible]



33 series\33097\03 Drawings\33097-LF140.dwg, 21/11/2024 12:49 pm



1. Fill levels shown are to the underside of the cap.
2. Total fill levels will be an additional 0.8m to allow for proposed cap

Estimated Earthworks Volumes

1. Total fill to be placed = 7900m^3 (max)
2. Total cap to be placed (650mm) = 2500m^3
3. Total topsoil to be placed (150mm) = 600m^3

NOT FOR CONSTRUCTION

[illegible]

NOTES

PROJECT DATUMS:

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

CLIENT

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

[illegible]

PROPOSED NORTHERN
DISPOSAL SITE CELL
FILLING PLAN



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HAWKE'S BAY	06 211 2766
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NELSON	03 222 1132
TAURANGA	07 220 9277

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STATUS
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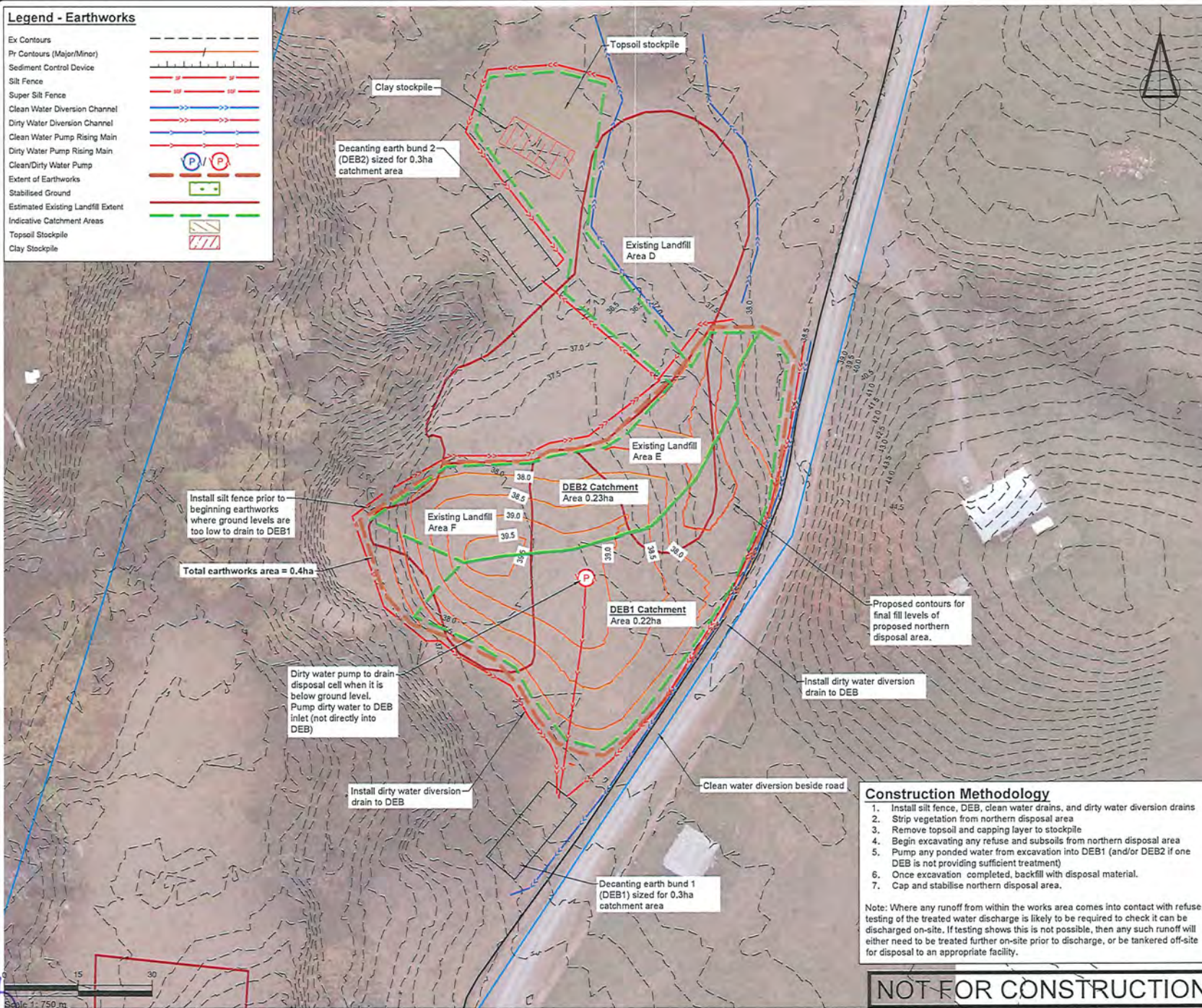
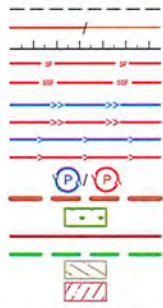
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

SCALE 1:500 (A3)

DRAWING No.
33097/LF141

80/80/80

Ex Contours
Pr Contours (Major/Minor)
Sediment Control Device
Silt Fence
Super Silt Fence
Clean Water Diversion Channel
Dirty Water Diversion Channel
Clean Water Pump Rising Main
Dirty Water Pump Rising Main
Clean/Dirty Water Pump
Extent of Earthworks
Stabilised Ground
Estimated Existing Landfill Extent
Indicative Catchment Areas
Topsoil Stockpile
Clay Stockpile



1. Install silt fence, DEB, clean water drains, and dirty water diversion drains.
2. Strip vegetation from northern disposal area
3. Remove topsoil and capping layer to stockpile
4. Begin excavating any refuse and subsoils from northern disposal area
5. Pump any ponded water from excavation into DEB1 (and/or DEB2 if one DEB is not providing sufficient treatment)
6. Once excavation completed, backfill with disposal material.
7. Cap and stabilise northern disposal area.

Note: Where any runoff from within the works area comes into contact with refuse, testing of the treated water discharge is likely to be required to check it can be discharged on-site. If testing shows this is not possible, then any such runoff will either need to be treated further on-site prior to discharge, or be tankered off-site for disposal to an appropriate facility.

NOT FOR CONSTRUCTION

[illegible]

NOTES

PROJECT DATUMS:	
LEVEL:	Auckland Vertical Datum 1946
COORDINATE:	New Zealand Transverse Mercator

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

PROPOSED NORTHERN
DISPOSAL SITE CELL
EROSION AND SEDIMENT
CONTROL PLAN PHASE 1



ENGINEERS • RESOURCE MANAGERS • SURVEYORS

AUCKLAND	09 278 7078
HAWKE'S BAY	06 211 2766
CHRISTCHURCH	03 358 5936
BLENHEIM	03 428 3292
NELSON	03 222 1132
TAURANGA	07 220 9277

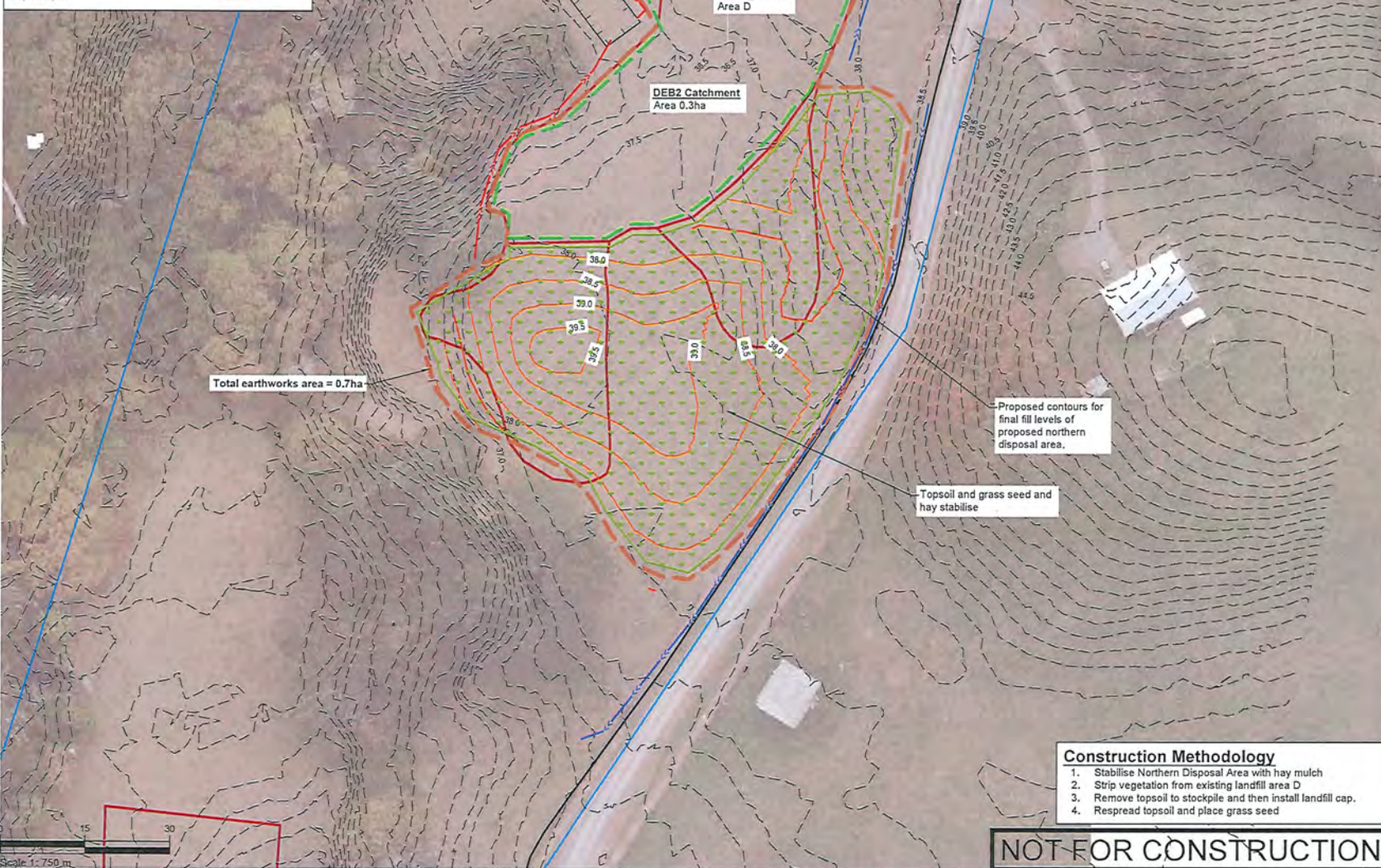
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SCALE	1:750	(A3)
DRAWING No	33097/LF190	REVISION
		-

Legend - Earthworks

Ex Contours	
Pr Contours (Major/Minor)	
Sediment Control Device	
Silt Fence	
Super Silt Fence	
Clean Water Diversion Channel	
Dirty Water Diversion Channel	
Clean Water Pump Rising Main	
Dirty Water Pump Rising Main	
Clean/Dirty Water Pump	
Extent of Earthworks	
Stabilised Ground	
Estimated Existing Landfill Extent	
Indicative Catchment Areas	
Topsoil Stockpile	
Clay Stockpile	



SURVEYED	TB	14/08/24	APPROVED	SF	DATE
DRAWN	TB	15/08/24			05/11/24
CHECKED	SF	05/11/24			
REVISION		CHANGES		CHECKED	DATE

NOTES

PROJECT DATUMS: Auckland Vertical Datum 1946
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

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 INFORMATION NEW ZEALAND

PROJECT
 FORMER TOKANUI HOSPITAL
 DEMOLITION AND REMEDIATION
 PROJECT

TITLE
 PROPOSED NORTHERN
 DISPOSAL SITE CELL
 EROSION AND SEDIMENT
 CONTROL PLAN PHASE 2

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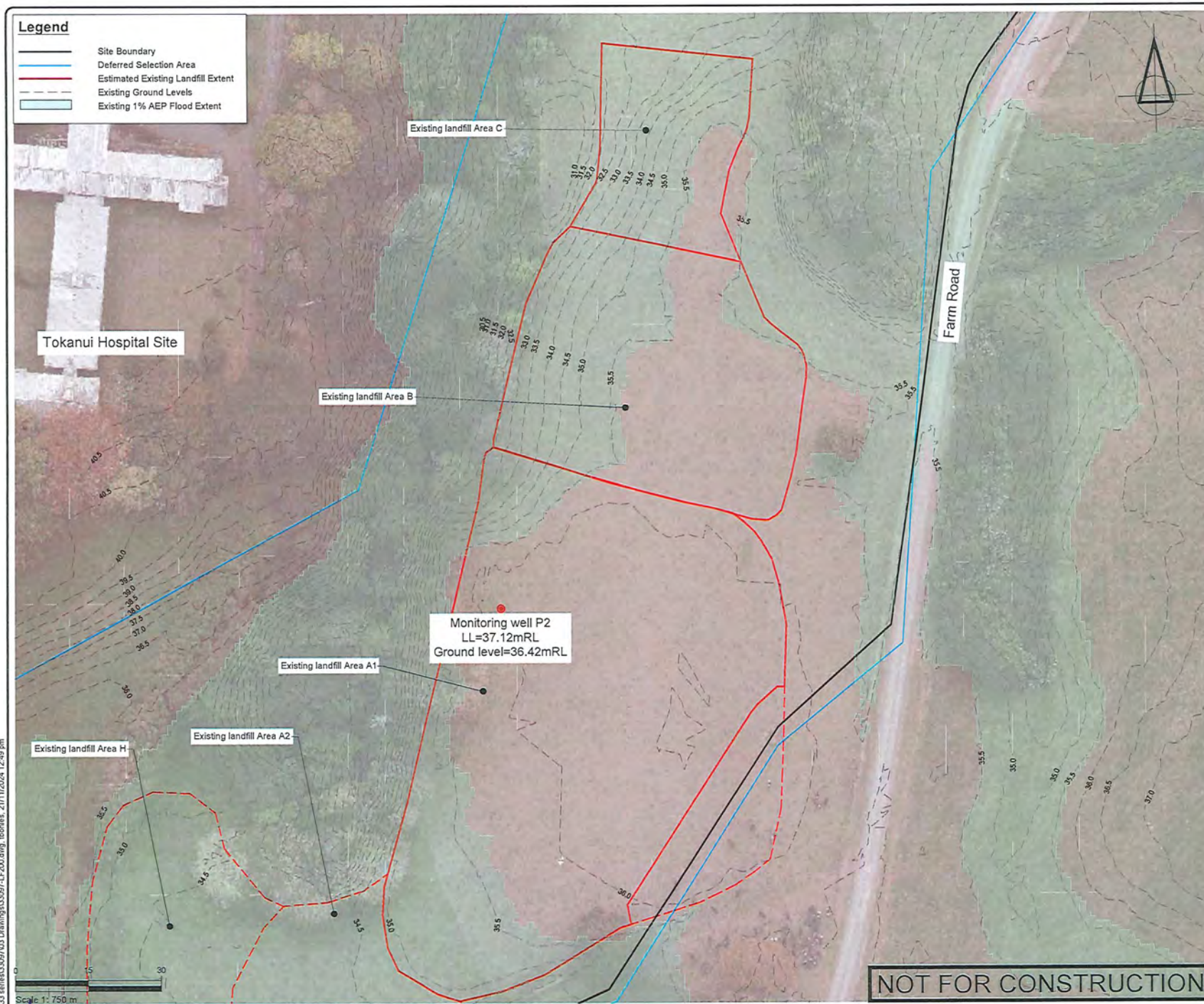
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- Construction Methodology**
1. Stabilise Northern Disposal Area with hay mulch
 2. Strip vegetation from existing landfill area D
 3. Remove topsoil to stockpile and then install landfill cap.
 4. Respread topsoil and place grass seed

NOT FOR CONSTRUCTION

STATUS	FOR RESOURCE CONSENT	
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.		
SCALE	1:750	(A)
DRAWING No	33097/LF191	REVISION
		-

[illegible]

NOTES

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

EXISTING LANDFILL AREAS A1,
B, AND C PLAN



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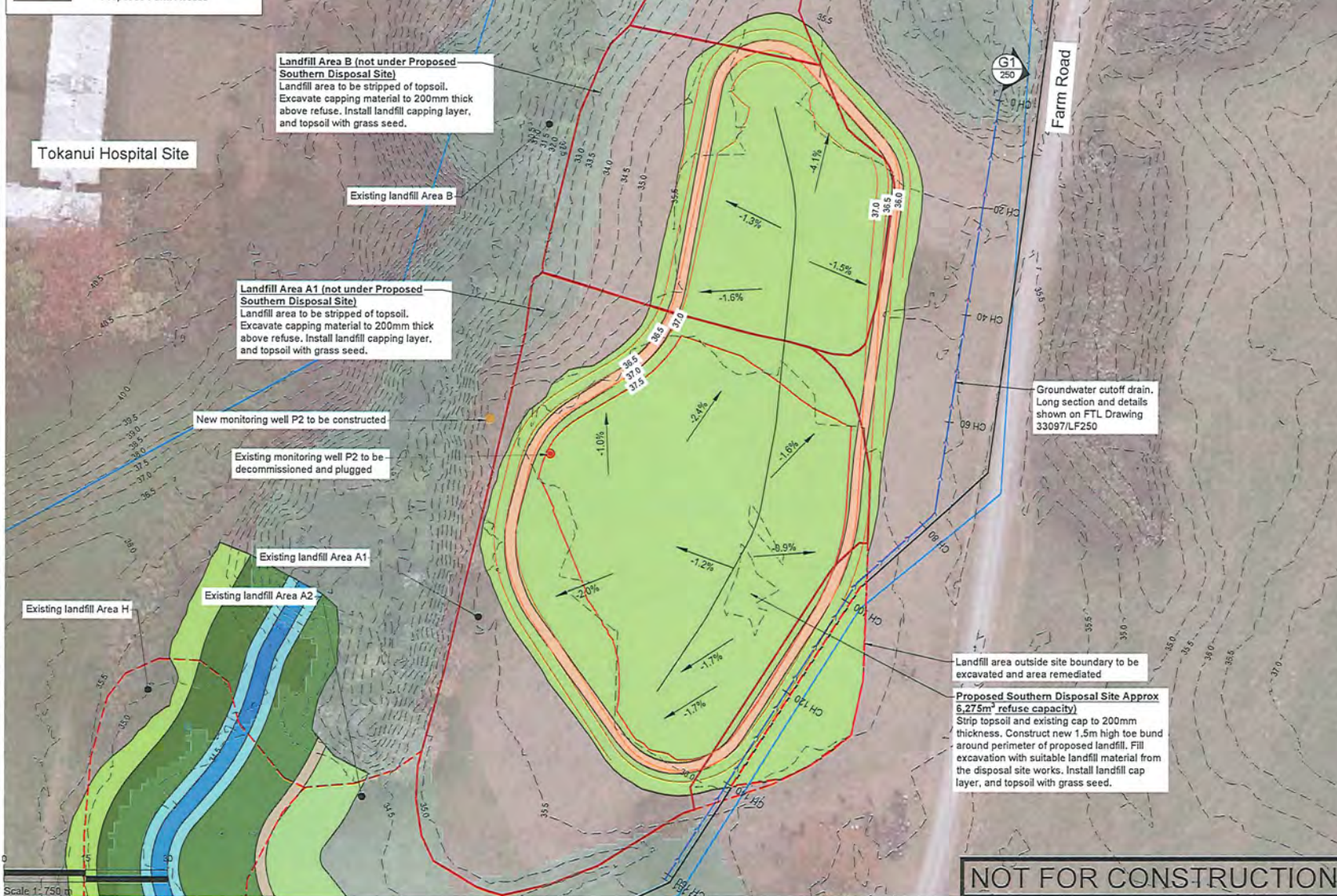
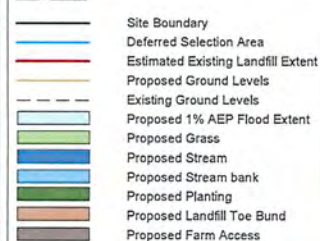
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SCALE 1:750	(A3)
DRAWING No 33097/LF200	REVISION -

[illegible]

NOTES

[illegible]

PROJECT DATUMS:	
LEVEL:	Auckland Vertical Datum 1948
COORDINATE:	New Zealand Transverse Mercator

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

PROPOSED SOUTHERN
DISPOSAL SITE CELL
PROPOSED FINAL DESIGN PLAN



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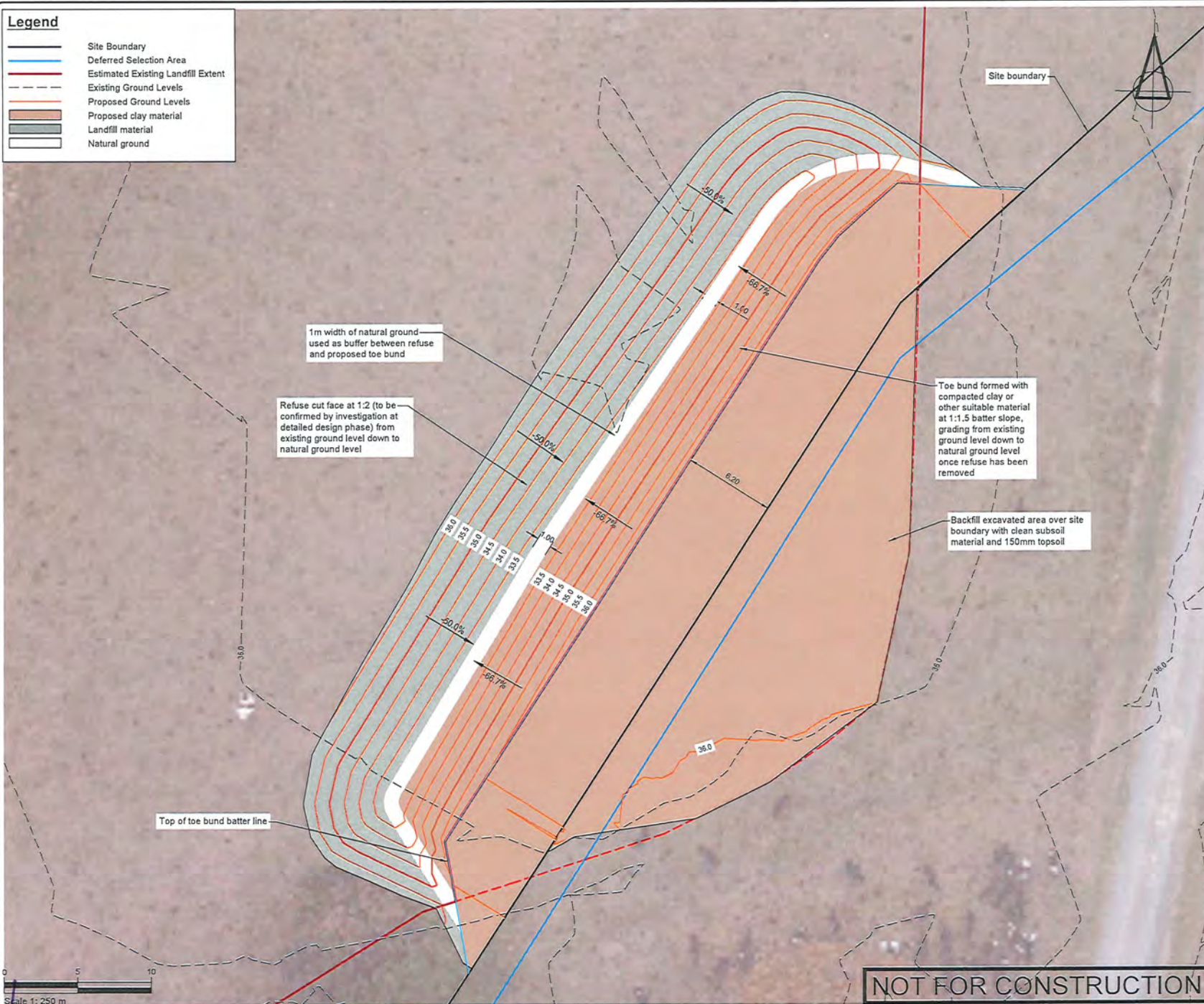
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SCALE 1:750	(A3)
DRAWING No	REVISION
33097/LF210	A

NOT FOR CONSTRUCTION

- Legend**
- Site Boundary
 - Deferred Selection Area
 - Estimated Existing Landfill Extent
 - Existing Ground Levels
 - Proposed Ground Levels
 - Proposed clay material
 - Landfill material
 - Natural ground



SURVEYED	DATE	APPROVED	DATE
DESIGNED	TB	20/11/24	SF
DRAWN	TB	20/11/24	21/11/24
CHECKED	SF	21/11/24	
REVISION	CHANGES	CHECKED	DATE

NOTES

PROJECT DATUMS:
 LEVEL: Auckland Vertical Datum 1946
 COORDINATE: New Zealand Transverse Mercator

CLIENT
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 INFORMATION NEW ZEALAND

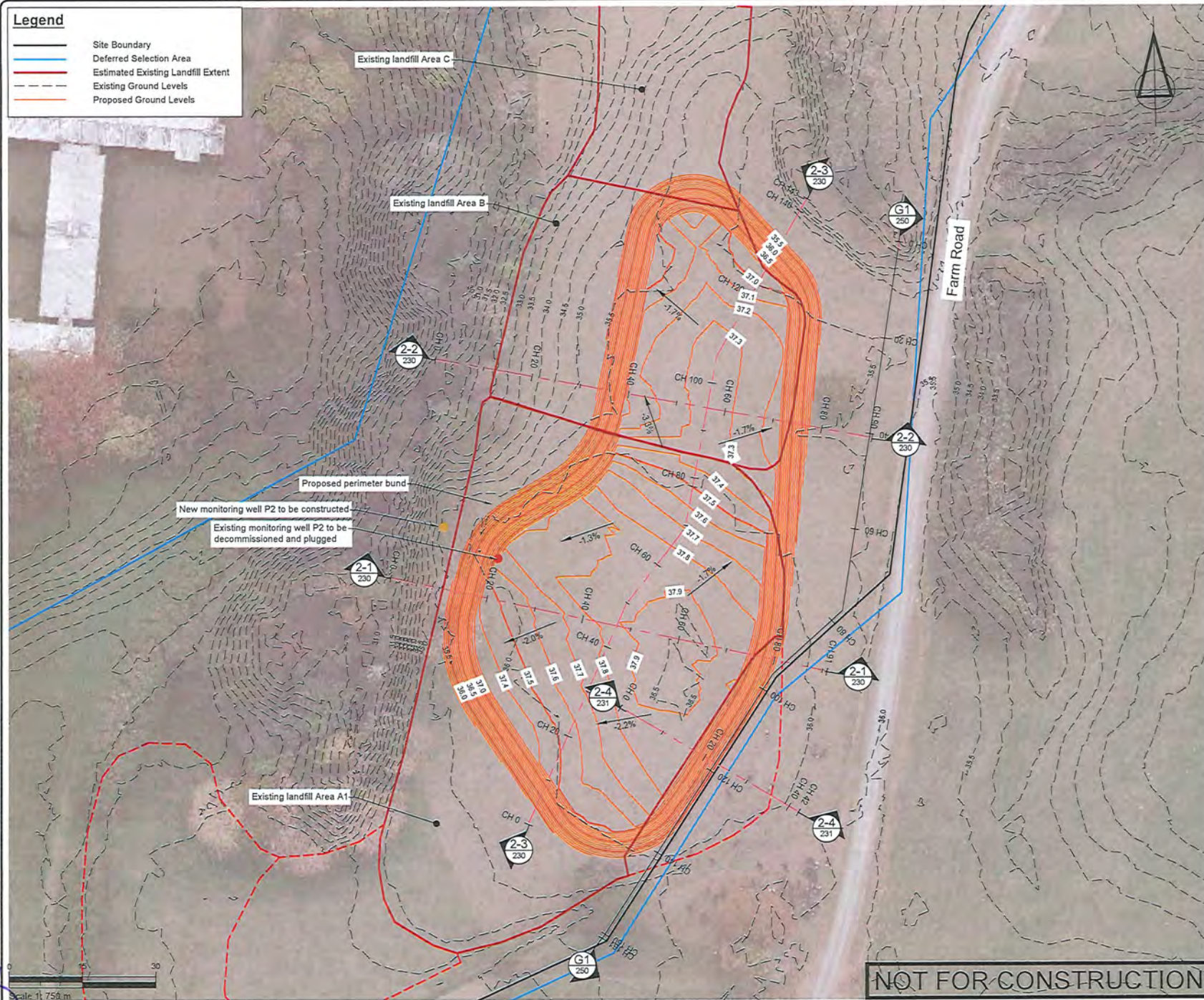
PROJECT
 FORMER TOKANUI HOSPITAL
 DEMOLITION AND REMEDIATION
 PROJECT

TITLE
 PROPOSED SOUTHERN
 DISPOSAL SITE CELL
 PROPOSED TOE BUND PLAN

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SCALE 1:250 (A3)
 DRAWING No. 33097/LF219
 REVISION

[illegible]

NOTES:

PROJECT DATUMS:
 LEVEL: Auckland Vertical Datum 1946
 COORDINATE: New Zealand Transverse Mercator

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

PROPOSED SOUTHERN
DISPOSAL SITE CELL
FINISHED GROUND LEVELS
PLAN

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STATUS

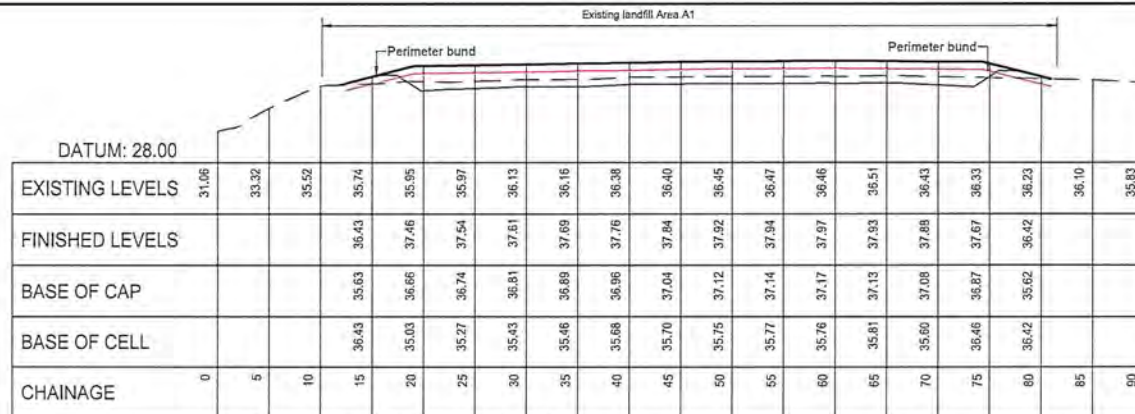
FOR RESOURCE CONSENT

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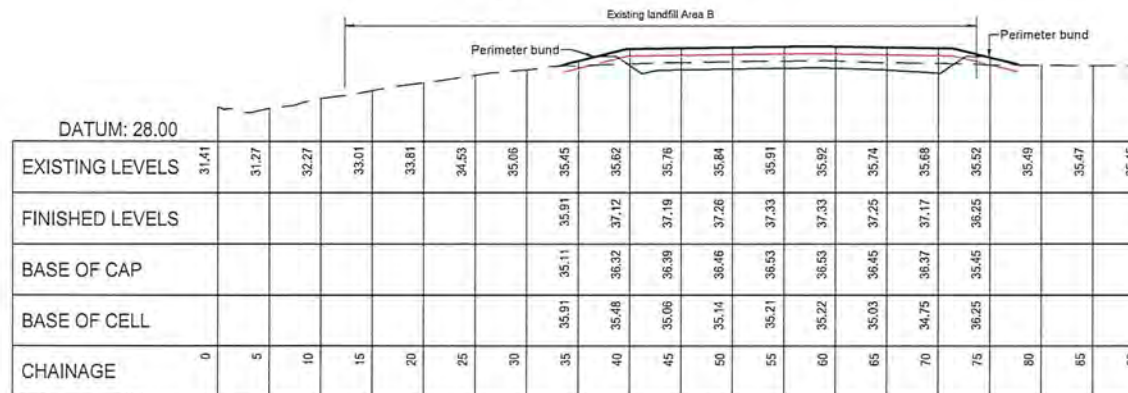
SCALE	1:750	(A3)
DRAWING No	33097/LF221	REVISION
		A

Legend

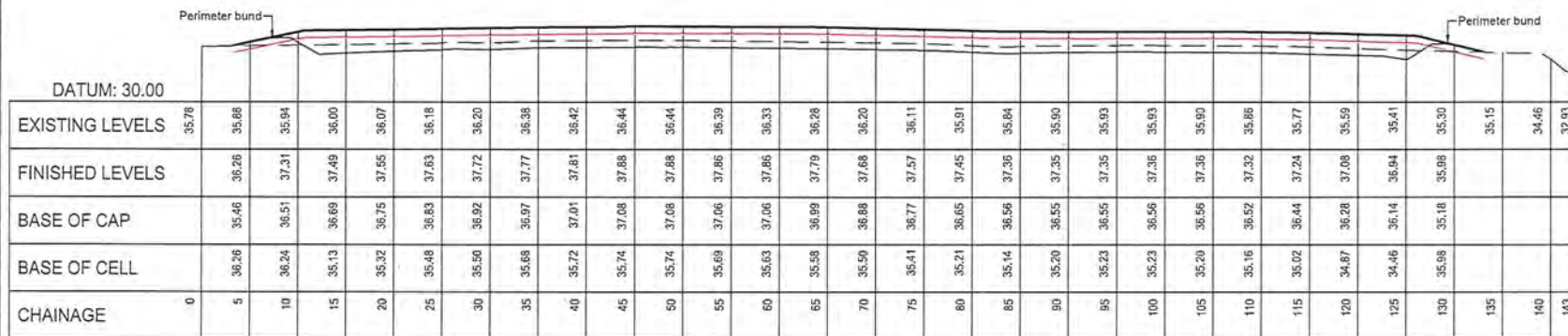
- Existing Ground
- Finished Ground
- Proposed Cap
- Proposed Cell Base



2-1 Cross Section 2-1
221
1:500



2-2 Cross Section 2-2
221
1:500



2-3 Cross Section 2-3
221
1:500

NOT FOR CONSTRUCTION

SURVEYED	DATE	APPROVED	DATE
DESIGNED	TB	14/03/24	SF
DRAWN	TB	21/03/24	05/11/24
CHECKED	SP	05/11/24	
REVISION	CHANGES	CHECKED	DATE
A	STH LF TOE BUND ADDED	SP	20/11/24

PROJECT DATUMS:	Auckland Vertical Datum 1946
LEVEL	
COORDINATE:	New Zealand Transverse Mercator

CLIENT
TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE
PROPOSED SOUTHERN
DISPOSAL SITE CELL
CROSS SECTIONS SHEET 1

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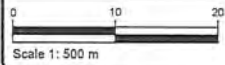
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BLENHEIM 03 428 3292
NELSON 03 222 1132
TAURANGA 07 220 9277

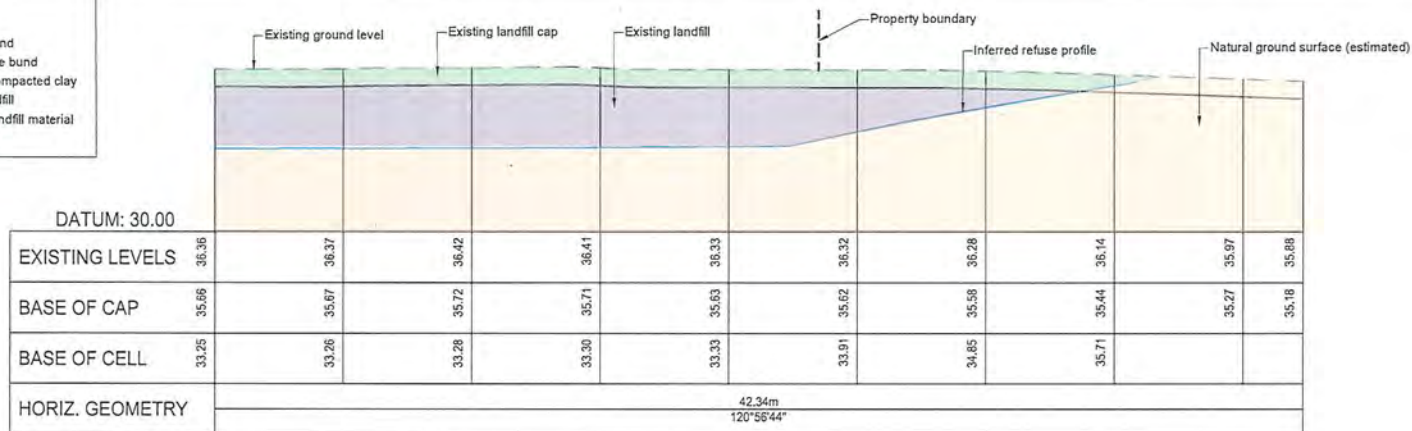
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SCALE	1:500	(A2)
DRAWING NO.	33097/LF230	REVISION
		A





Existing landfill cap to be excavated to 200mm thickness prior to placing further material

Landfill material

Backfill excavation with material previously removed or other refuse

Property boundary

Groundwater drain to be installed below toe bund prior to construction of bund

1:4

2.00

DATUM: 30.00

CHAINAGE

0 5 10 15 20 25 30 35 40

NOT FOR CONSTRUCTION

[illegible]

NOTES

PROJECT DATUMS:	
LEVEL:	Auckland Vertical Datum 1946
COORDINATE:	New Zealand Transverse Mercator

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

PROPOSED SOUTHERN
DISPOSAL SITE CELL
CROSS SECTIONS SHEET 2



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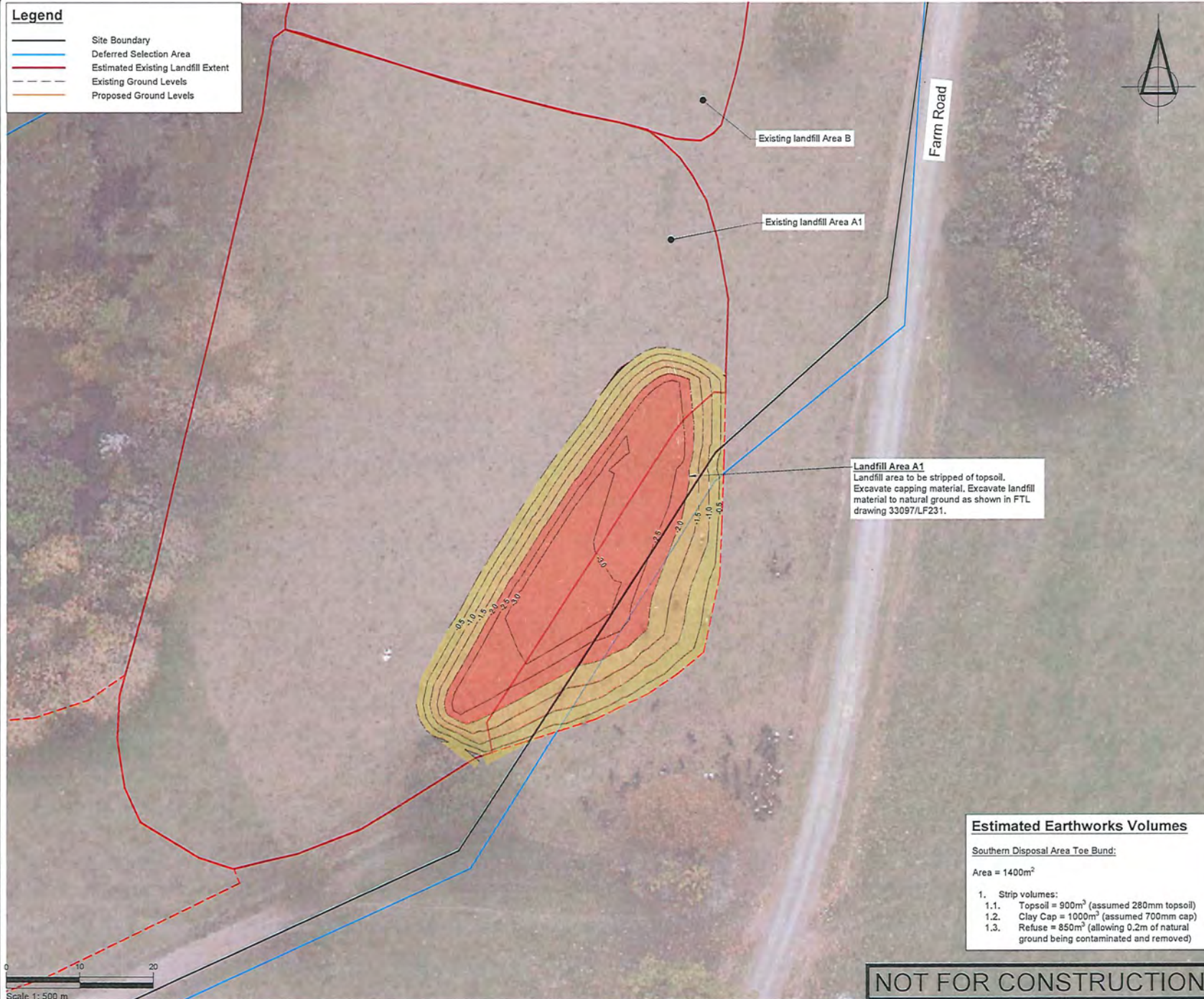
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SCALE 1:200 (A3)

DRAWING No.	REVISION
-------------	----------

33097/LF231 -



NOTES

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

PROPOSED SOUTHERN
DISPOSAL SITE CELL
REFUSE EXCAVATION PLAN

STATUS

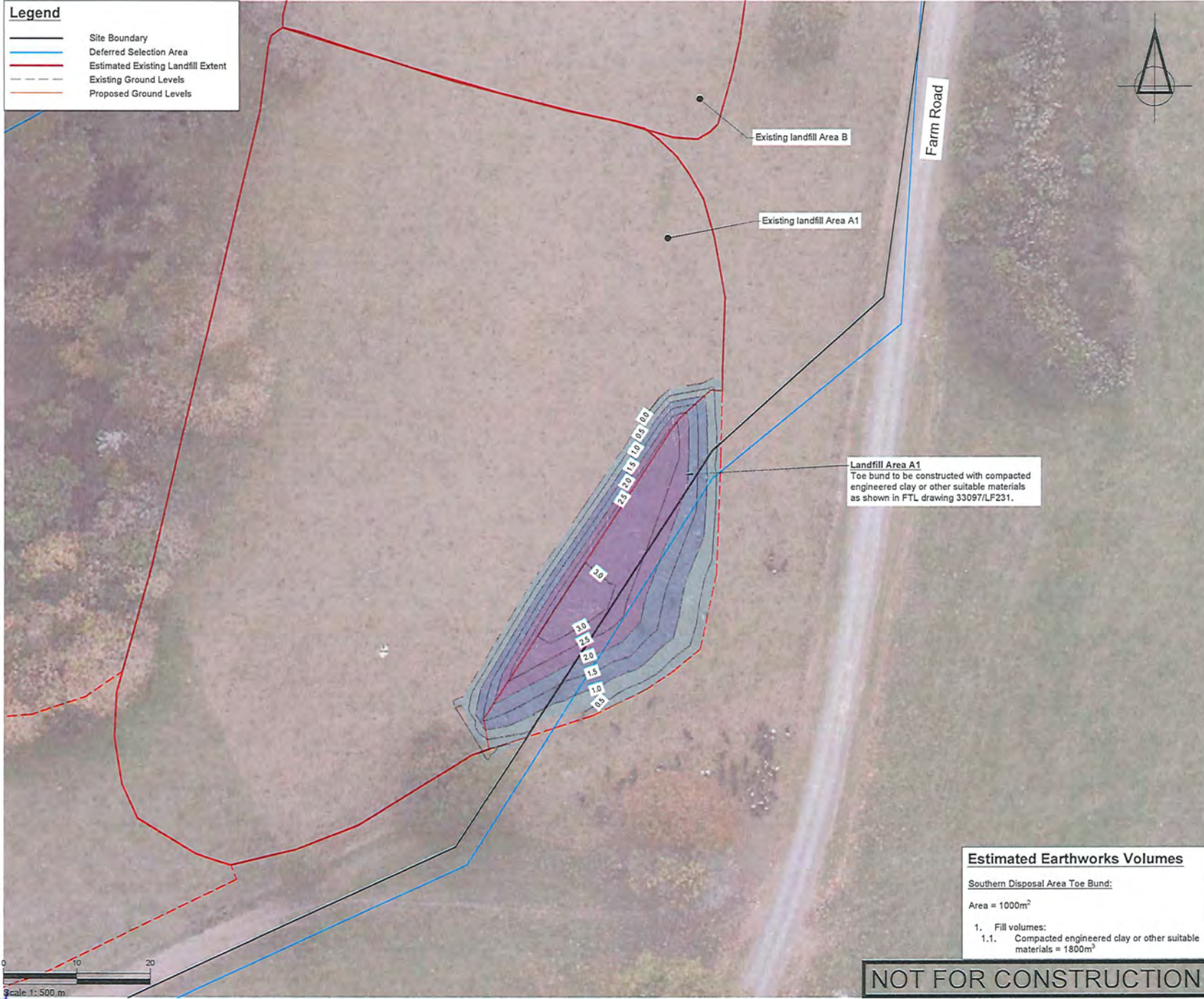
FOR RESOURCE CONSENT

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SCALE	1:500	(A)
DRAWING No	33097/LF238	REVISION
		-

NOT FOR CONSTRUCTION

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NOTES

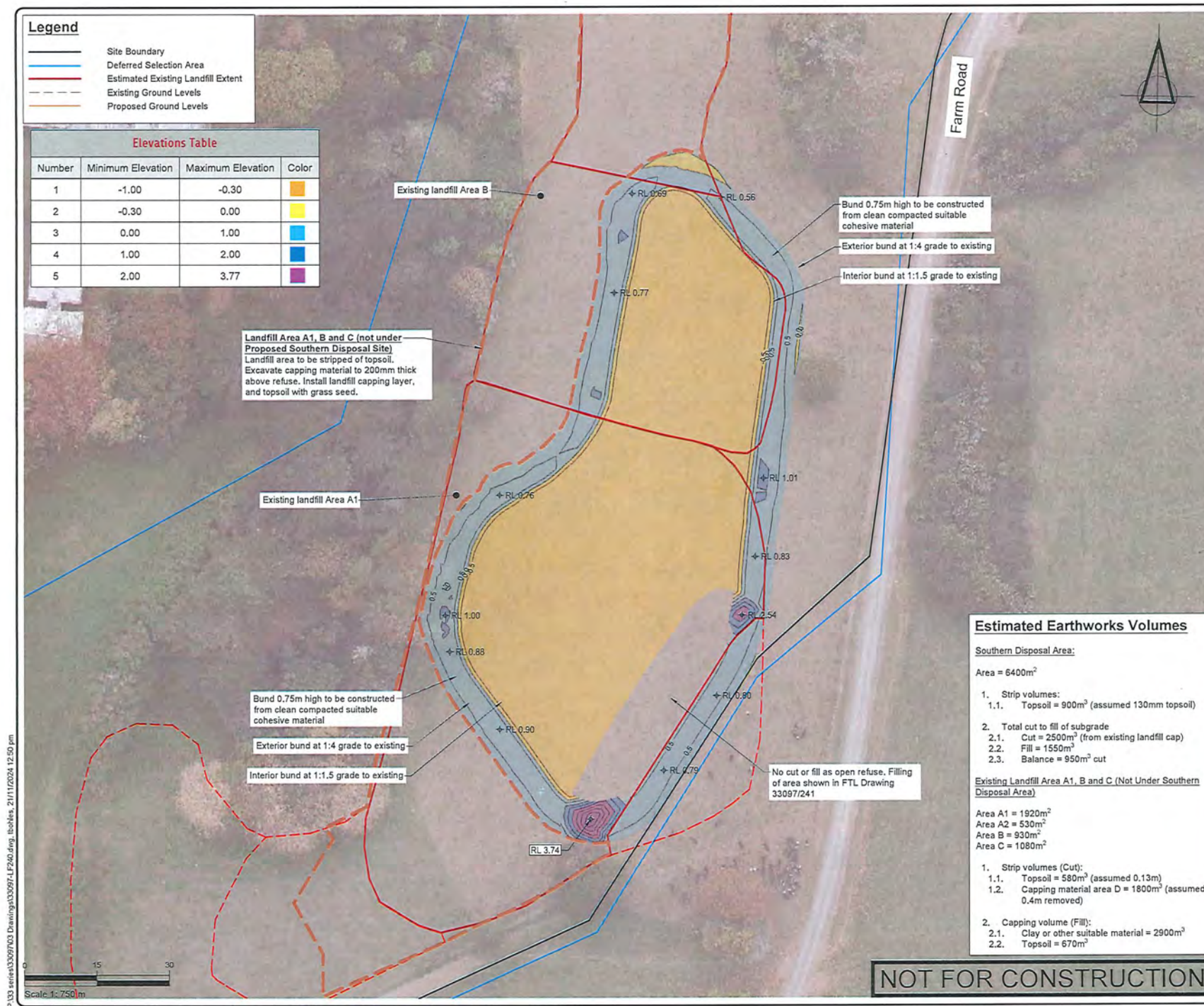
PROJECT DATUMS:

LEVEL: Auckland Vertical Datum 1949

COORDINATE: New Zealand Transverse Mercator

PROPOSED SOUTHERN
DISPOSAL SITE CELL
TOE BUND CONSTRUCTION
PLAN

STATUS FOR RESOURCE CONSENT Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.	
SCALE 1:500	(A3)
DRAWING No 33097/LF239	REVISION -

[illegible]

NOTES:

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

CLIENT
TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

PROPOSED SOUTHERN
DISPOSAL SITE CELL
CELL FORMATION CUT AND FILL
PLAN

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Thomas**
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CHRIST CHURCH
BLENHEIM
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STATUS	
FOR RESOURCE CONSENT	
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings unless otherwise indicated.	
SCALE	(A)
1:500	
DRAWING No.	REVISION
33097/LF240	A

NOT FOR CONSTRUCTION

Legend

- Site Boundary
- Deferred Selection Area
- Estimated Existing Landfill Extent
- Existing Ground Levels
- Proposed Ground Levels

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	0.00	1.00	Blue
2	1.00	2.00	Light Blue
3	2.00	3.81	Purple

Existing landfill Area B

Existing landfill Area A1

Farm Road

Notes

1. Fill levels shown are to the top of refuse.
2. Total fill levels will be an additional 0.8m to allow for proposed cap

Estimated Earthworks Volumes

Area = 6800m²

1. Total refuse to be placed = 7200m³ (max)
2. Total cap to be placed (650mm) = 4400m³
3. Total topsoil to be placed (150mm) = 1000m³

NOT FOR CONSTRUCTION

SURVEYED	REVISION	CHANGED	CHECKED	DATE
TB	16/09/24		SF	05/11/24
TB	21/09/24			
SF	05/11/24			
A	STH LF TOE BUND ADDED		SF	20/11/24

PROJECT DATUMS:	LEVEL:	COORDINATE:
	Auckland Vertical Datum 1946	New Zealand Transverse Mercator

CLIENT
TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION PROJECT

TITLE
PROPOSED SOUTHERN DISPOSAL SITE CELL REFUSE FILLING PLAN

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SCALE	REVISION
1:500 (A3)	
DRAWING No.	33097/LF241
REVISION	A

Legend

- Site Boundary
- Deferred Selection Area
- Estimated Existing Landfill Extent
- Existing Ground Levels
- Proposed Ground Levels
- Earthworks Extent
- Extent of Vegetation Removal

Provisional vegetation clearance area, if channel needs extending to tie in with existing channel - to be confirmed on-site.

Proposed contours for final cut and fill levels shown.

Total earthworks area = 0.47ha

Existing Landfill Area H

Existing Landfill Area A2

Existing Landfill Area A1

Existing culvert (to be fully grouted and plugged)

Proposed culvert

Notes

- Existing vegetation removal required around existing culvert 3 inlet/outlet are provisional and will depend on the contractor's methodology for getting access to these areas to seal the existing culvert, particularly how they will isolate the works area from the normal stream flows. Any riparian vegetation that has to be removed to facilitate this or is accidentally damaged during the works will be reinstated on works completion.
- Provisional vegetation removal area - only required if stream channel is further to the east of the location indicated by Lidar data.

NOT FOR CONSTRUCTION

SURVEYED	DESIGNED	DRAWN	CHECKED	REVISION	CHANGES	APPROVED	DATE
	TB	TB	SF			SF	05/11/24

NOTES

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

CLIENT
TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE
INDICATIVE VEGETATION
REMOVAL PLAN



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SCALE	1:500	(A3)
DRAWING No.	33097/LF311	REVISION
		-

Handwritten signature

Legend

- Site Boundary
- Deferred Selection Area
- Estimated Existing Landfill Extent
- Proposed Ground Levels
- Existing Ground Levels
- Proposed 1% AEP Flood Extent
- Proposed Grass
- Proposed Stream
- Proposed Stream bank
- Proposed Planting
- Proposed Landfill Toe Bund
- Proposed Farm Access

Tokanui Hospital Site

Exact location of outlet to be confirmed prior to works.

L1
360

Existing landfill Area H

Form new toe bund for existing landfill Area A1

Stream designed with meanders and will be planted with natives with rocklogs located throughout.

Rear face of toe bund to be backfilled with refuse material and then capped, topsoiled and grassed

Existing landfill Area A1

Farm track to be lifted to detain flood waters to existing levels

Existing landfill Area A2

Farm Road

Culvert 3 Remedial works

Strip topsoil, landfill cap and any soils/fill material. Excavate all refuse from area, disposing of the refuse into the southern disposal site. Undercut the natural ground if required, and then form the proposed stream and farm crossing. Topsoil and stabilise the area. Riparian planting along the stream.

New 1350mmØ stormwater culvert see FTL Drawing 33097/LF360 for long section. Base of culvert to be embedded 340mm into the ground. Spoiler baffles to be added to assist fish passage, as required

NOT FOR CONSTRUCTION

SURVEYED			APPROVED	SF	DAT
DESIGNED	TB	14/09/24			
DRAWN	TB	15/09/24			
CHECKED	SF	05/11/24			
REVISION	CHANGES		CHECKED	DAT	
A	ANNOTATION ADDED		SF	05/11/24	
	</				

NOTE

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

CLIENT
TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE
AREAS A2/H & CULVERT 3
PROPOSED FINAL DESIGN PLAN

Fraser Thomas

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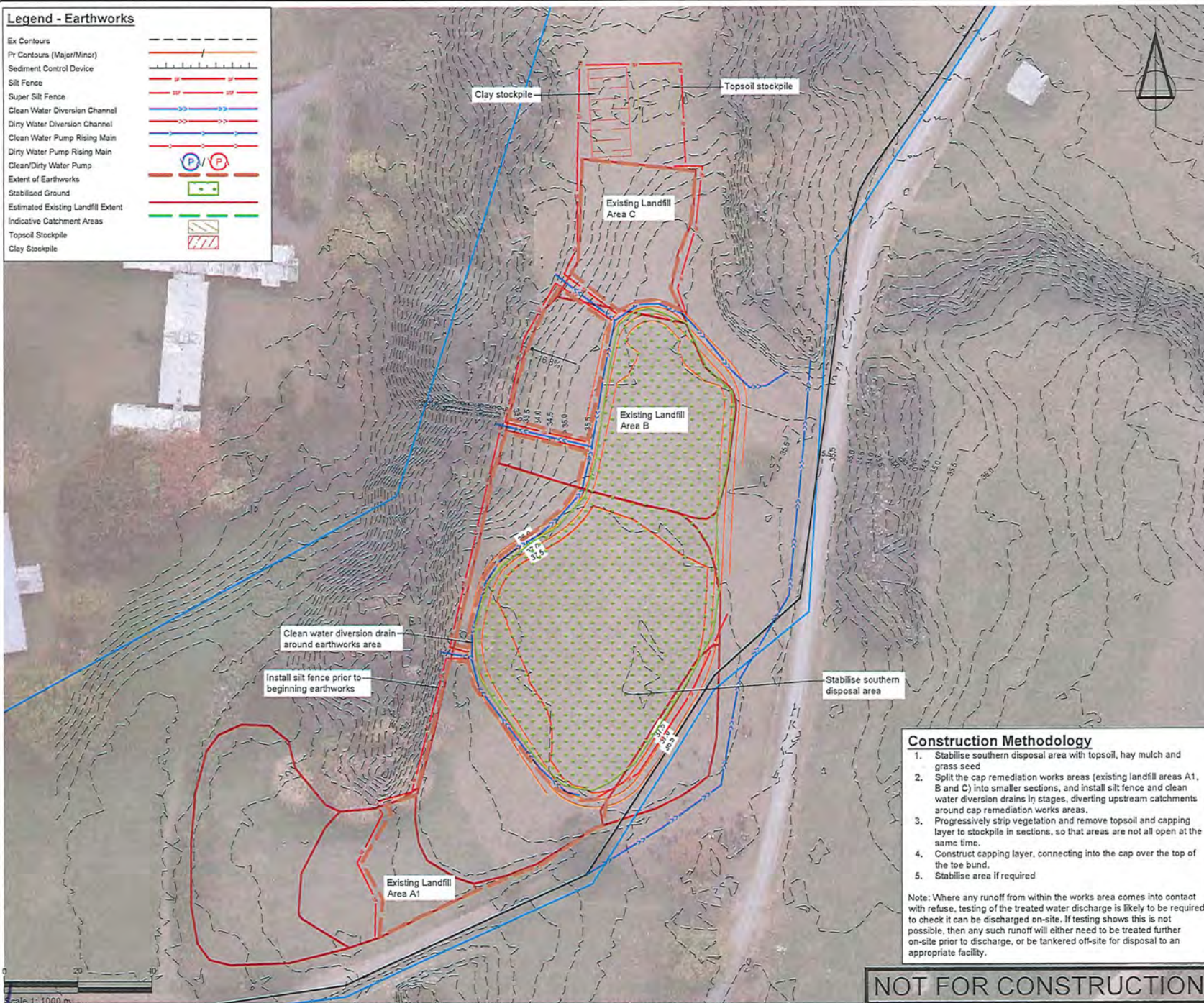
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SCALE: 1:500 (A3)
DRAWING NO. 33097/LF310
REVISION A

Legend - Earthworks

Ex Contours	
Pr Contours (Major/Minor)	
Sediment Control Device	
Silt Fence	
Super Silt Fence	
Clean Water Diversion Channel	
Dirty Water Diversion Channel	
Clean Water Pump Rising Main	
Dirty Water Pump Rising Main	
Clean/Dirty Water Pump	
Extent of Earthworks	
Stabilised Ground	
Estimated Existing Landfill Extent	
Indicative Catchment Areas	
Topsoil Stockpile	
Clay Stockpile	



Construction Methodology

1. Stabilise southern disposal area with topsoil, hay mulch and grass seed
2. Split the cap remediation works areas (existing landfill areas A1, B and C) into smaller sections, and install silt fence and clean water diversion drains in stages, diverting upstream catchments around cap remediation works areas.
3. Progressively strip vegetation and remove topsoil and capping layer to stockpile in sections, so that areas are not all open at the same time.
4. Construct capping layer, connecting into the cap over the top of the toe bund.
5. Stabilise area if required

Note: Where any runoff from within the works area comes into contact with refuse, testing of the treated water discharge is likely to be required to check it can be discharged on-site. If testing shows this is not possible, then any such runoff will either need to be treated further on-site prior to discharge, or be tankered off-site for disposal to an appropriate facility.

NOT FOR CONSTRUCTION

SURVEYED	TB	14/08/24	APPROVED	SF	DATE
DRAWN	TB	15/09/24			05/11/24
CHECKED	SF	25/11/24			
REVISION	CHANGED		CHECKED		DATE
A	STH LF TOE BUND ADDED		SF		20/11/24

NOTES

PROJECT DATUMS:
 LEVEL: Auckland Vertical Datum 1946
 COORDINATE: New Zealand Transverse Mercator

CLIENT
 TOITU TE WHENUA LAND
 INFORMATION NEW ZEALAND

PROJECT
 FORMER TOKANUI HOSPITAL
 DEMOLITION AND REMEDIATION
 PROJECT

TITLE
 PROPOSED SOUTHERN
 DISPOSAL SITE CELL
 EROSION AND SEDIMENT
 CONTROL PLAN PHASE 2

Fraser Thomas
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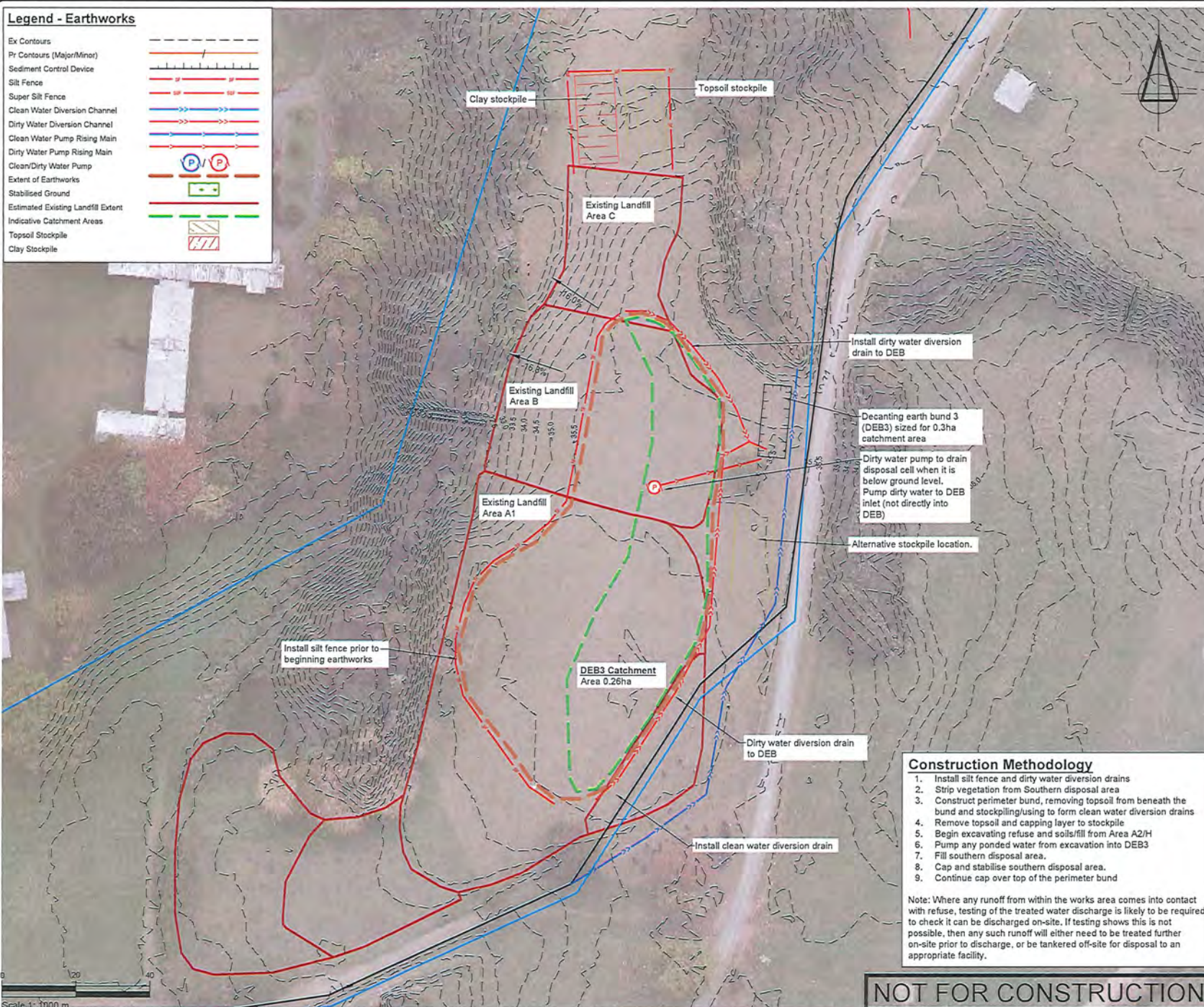
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SCALE: 1:1000 (A3)
 DRAWING No. 33097/LF291
 REVISION A

Ex Contours	
Pr Contours (Major/Minor)	
Sediment Control Device	
Silt Fence	
Super Silt Fence	
Clean Water Diversion Channel	
Dirty Water Diversion Channel	
Clean Water Pump Rising Main	
Dirty Water Pump Rising Main	
Clean/Dirty Water Pump	
Extent of Earthworks	
Stabilised Ground	
Estimated Existing Landfill Extent	
Indicative Catchment Areas	
Topsoil Stockpile	
Clay Stockpile	

[illegible]

NOTES

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

CLIENT

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

PROPOSED SOUTHERN
DISPOSAL SITE CELL
EROSION AND SEDIMENT
CONTROL PLAN PHASE 1



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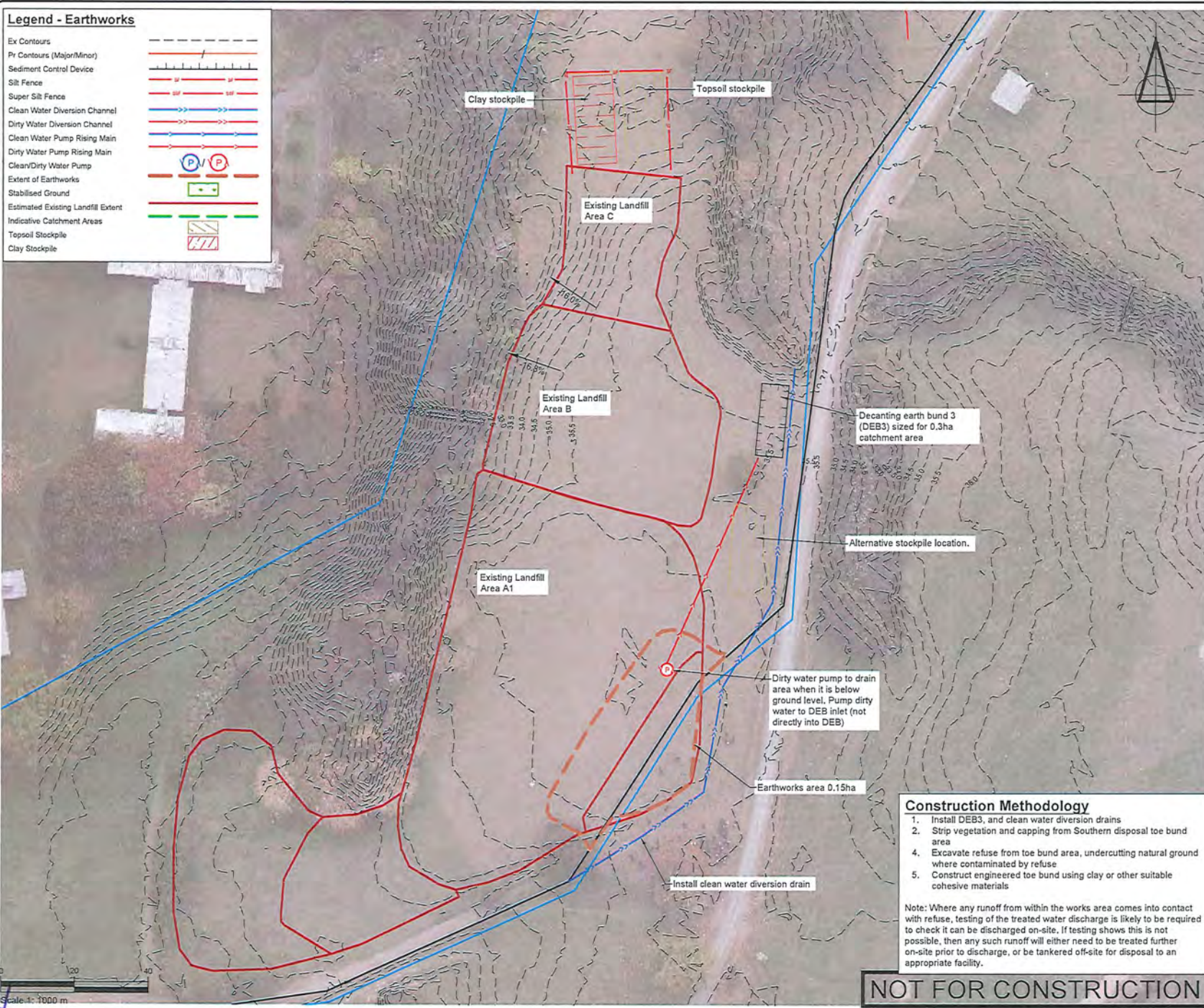
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NOT FOR CONSTRUCTION

- Ex Contours
- Pr Contours (Major/Minor)
- Sediment Control Device
- Silt Fence
- Super Silt Fence
- Clean Water Diversion Channel
- Dirty Water Diversion Channel
- Clean Water Pump Rising Main
- Dirty Water Pump Rising Main
- Clean/Dirty Water Pump
- Extent of Earthworks
- Stabilised Ground
- Estimated Existing Landfill Extent
- Indicative Catchment Areas
- Topsoil Stockpile
- Clay Stockpile

[illegible]

NOTES

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

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INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

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EROSION AND SEDIMENT
CONTROL PLAN PHASE 0



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DRAWING No.	REVISION
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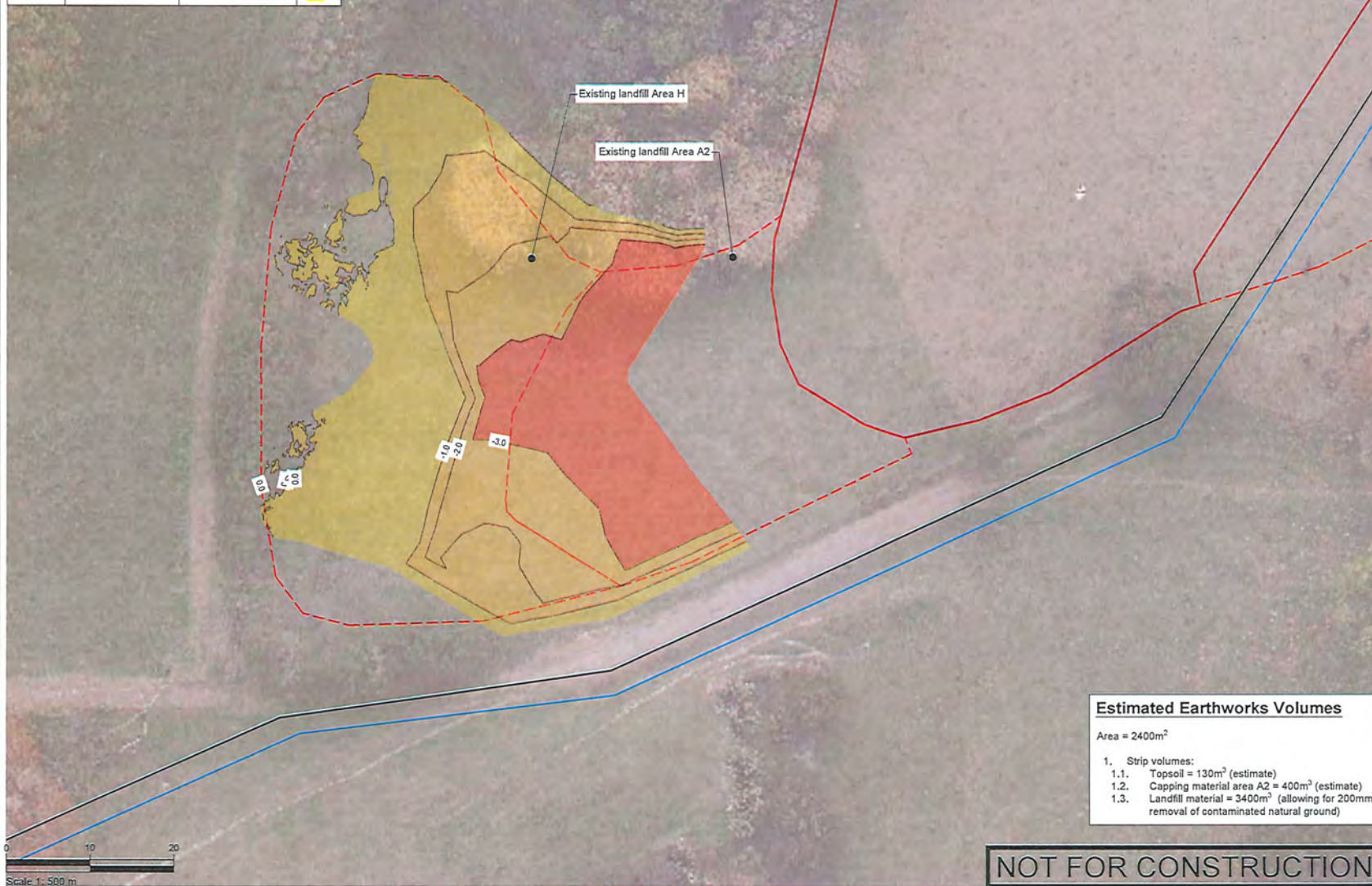
SCALE	AS SHOWN	(A3)
DRAWING NO.	33097/LF250	REVISION A



- Site Boundary
 Deferred Selection Area
 Estimated Existing Landfill Extent
 Existing Ground Levels
 Proposed Ground Levels

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	-5.20	-3.00	
2	-3.00	-1.00	
3	-1.00	0.00	

[illegible]

NOTES

PROJECT DATUMS:

LEVEL: Auckland Vertical Datum 1941

COORDINATE: New Zealand Transverse Mercator

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INFORMATION NEW ZEALAND

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

AREAS A2/H & CULVERT 3
UNDERCUT STRIP PLAN

STATUS

FOR RESOURCE CONSENT

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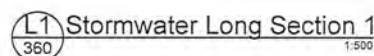
SCALE	1:500	(A)
DRAWING No.	33097/LF340	REVISION

NOTES:

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1947
COORDINATE: New Zealand Transverse Mercator

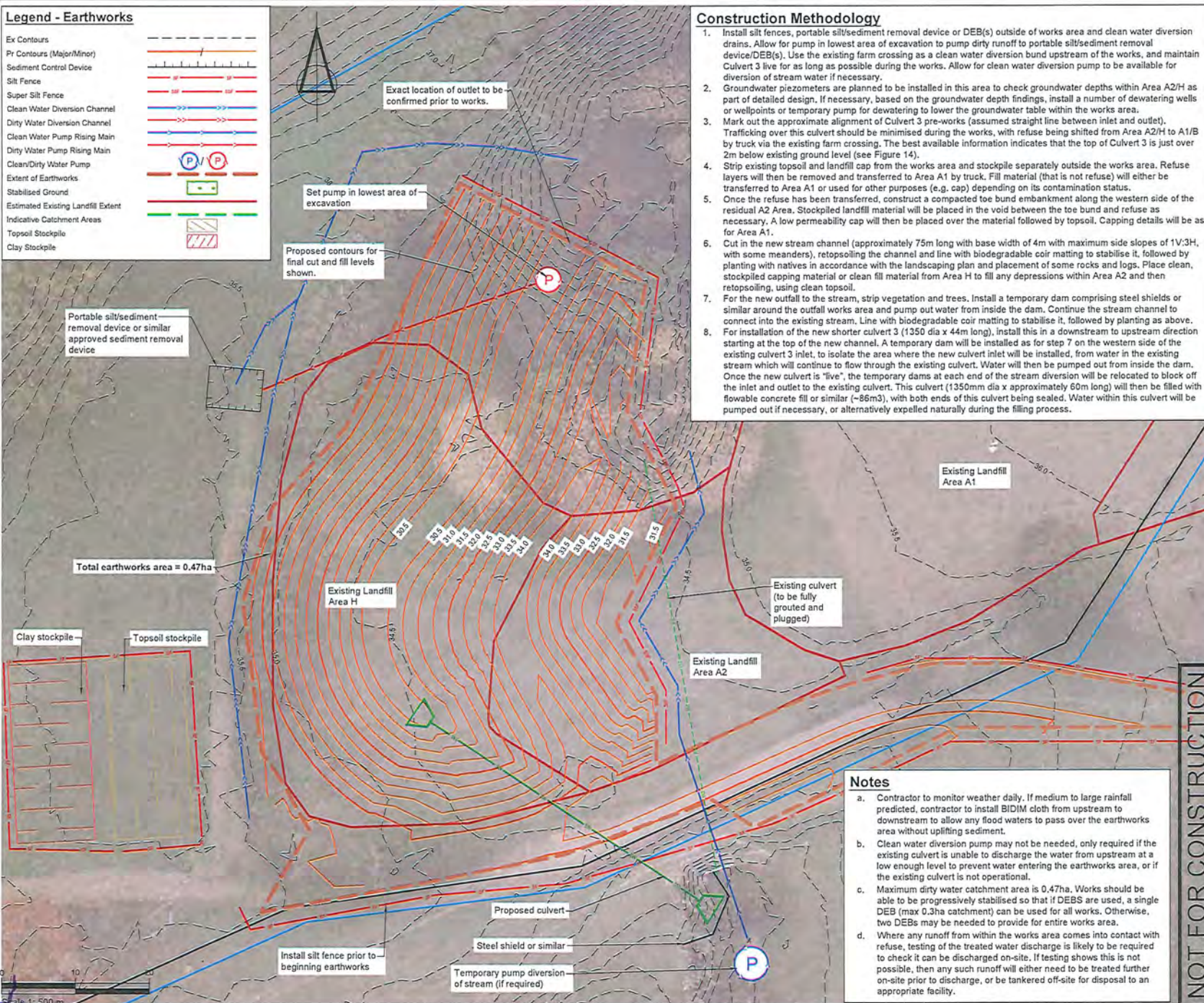
PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

SCALE	1:500	(A)
DRAWING No	33097/LF360	REVISION
		A



Legend - Earthworks

Ex Contours	
Pr Contours (Major/Minor)	
Sediment Control Device	
Silt Fence	
Super Silt Fence	
Clean Water Diversion Channel	
Dirty Water Diversion Channel	
Clean Water Pump Rising Main	
Dirty Water Pump Rising Main	
Clean/Dirty Water Pump	
Extent of Earthworks	
Stabilised Ground	
Estimated Existing Landfill Extent	
Indicative Catchment Areas	
Topsoil Stockpile	
Clay Stockpile	



Construction Methodology

1. Install silt fences, portable silt/sediment removal device or DEB(s) outside of works area and clean water diversion drains. Allow for pump in lowest area of excavation to pump dirty runoff to portable silt/sediment removal device/DEB(s). Use the existing farm crossing as a clean water diversion bund upstream of the works, and maintain Culvert 3 live for as long as possible during the works. Allow for clean water diversion pump to be available for diversion of stream water if necessary.
2. Groundwater piezometers are planned to be installed in this area to check groundwater depths within Area A2/H as part of detailed design. If necessary, based on the groundwater depth findings, install a number of dewatering wells or wellpoints or temporary pump for dewatering to lower the groundwater table within the works area.
3. Mark out the approximate alignment of Culvert 3 pre-works (assumed straight line between inlet and outlet). Trafficking over this culvert should be minimised during the works, with refuse being shifted from Area A2/H to A1/B by truck via the existing farm crossing. The best available information indicates that the top of Culvert 3 is just over 2m below existing ground level (see Figure 14).
4. Strip existing topsoil and landfill cap from the works area and stockpile separately outside the works area. Refuse layers will then be removed and transferred to Area A1 by truck. Fill material (that is not refuse) will either be transferred to Area A1 or used for other purposes (e.g. cap) depending on its contamination status.
5. Once the refuse has been transferred, construct a compacted toe bund embankment along the western side of the residual A2 Area. Stockpiled landfill material will be placed in the void between the toe bund and refuse as necessary. A low permeability cap will then be placed over the material followed by topsoil. Capping details will be as for Area A1.
6. Cut in the new stream channel (approximately 75m long with base width of 4m with maximum side slopes of 1V:3H, with some meanders), retopsoiling the channel and line with biodegradable coir matting to stabilise it, followed by planting with natives in accordance with the landscaping plan and placement of some rocks and logs. Place clean, stockpiled capping material or clean fill material from Area H to fill any depressions within Area A2 and then retopsoiling, using clean topsoil.
7. For the new outfall to the stream, strip vegetation and trees. Install a temporary dam comprising steel shields or similar around the outfall works area and pump out water from inside the dam. Continue the stream channel to connect into the existing stream. Line with biodegradable coir matting to stabilise it, followed by planting as above.
8. For installation of the new shorter culvert 3 (1350 dia x 44m long), install this in a downstream to upstream direction starting at the top of the new channel. A temporary dam will be installed as for step 7 on the western side of the existing culvert 3 inlet, to isolate the area where the new culvert inlet will be installed, from water in the existing stream which will continue to flow through the existing culvert. Water will then be pumped out from inside the dam. Once the new culvert is 'live', the temporary dams at each end of the stream diversion will be relocated to block off the inlet and outlet to the existing culvert. This culvert (1350mm dia x approximately 60m long) will then be filled with flowable concrete fill or similar (~86m³), with both ends of this culvert being sealed. Water within this culvert will be pumped out if necessary, or alternatively expelled naturally during the filling process.

Notes

- a. Contractor to monitor weather daily. If medium to large rainfall predicted, contractor to install BIDIM cloth from upstream to downstream to allow any flood waters to pass over the earthworks area without uplifting sediment.
- b. Clean water diversion pump may not be needed, only required if the existing culvert is unable to discharge the water from upstream at a low enough level to prevent water entering the earthworks area, or if the existing culvert is not operational.
- c. Maximum dirty water catchment area is 0.47ha. Works should be able to be progressively stabilised so that if DEBS are used, a single DEB (max 0.3ha catchment) can be used for all works. Otherwise, two DEBs may be needed to provide for entire works area.
- d. Where any runoff from within the works area comes into contact with refuse, testing of the treated water discharge is likely to be required to check it can be discharged on-site. If testing shows this is not possible, then any such runoff will either need to be treated further on-site prior to discharge, or be tankered off-site for disposal to an appropriate facility.

SURVEYED	TB	14/08/24	APPROVED	DATE
DRAWN	TB	19/09/24	SF	05/11/24
CHECKED	SF	05/11/24		
REVISION	CHANGED	CHECKED	DATE	
A	UPDATED NOTES	SF	09/11/24	

PROJECT DATUMS:	Auckland Vertical Datum 1946
LEVEL:	
COORDINATE:	New Zealand Transverse Mercator

CLIENT	TOITU TE WHENUA LAND INFORMATION NEW ZEALAND
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PROJECT	FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION PROJECT
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TITLE	AREAS A2/H & CULVERT 3 EROSION AND SEDIMENT CONTROL PLAN
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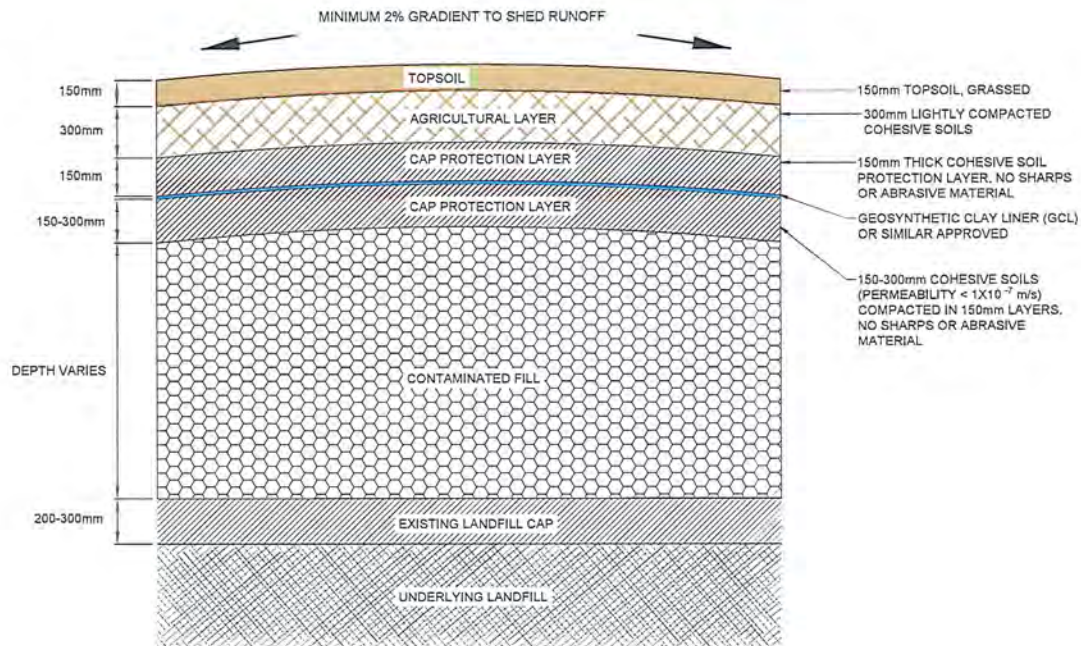
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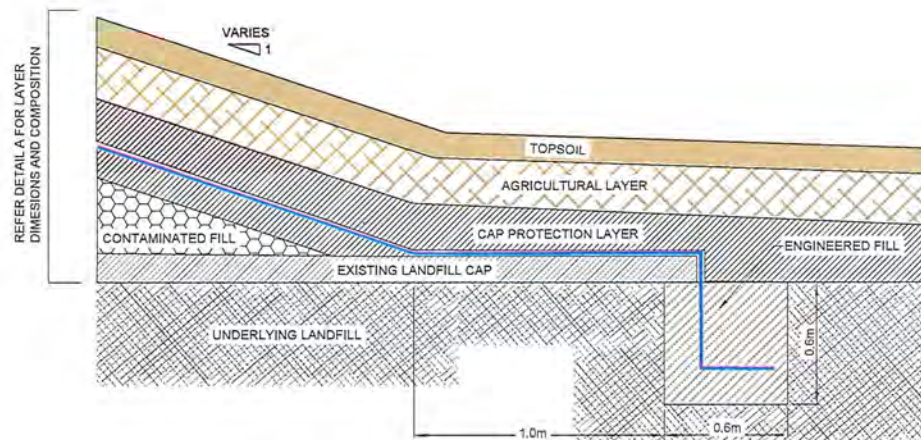
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STATUS	FOR RESOURCE CONSENT
SCALE	1:500 (A3)
DRAWING NO.	33097/LF390
REVISION	A

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DETAIL A - CELL LINER COMPONENTS
NOT TO SCALE



DETAIL B - CELL SIDE-WALL LINER COMPONENTS
NOT TO SCALE

NOT FOR CONSTRUCTION

SURVEYED	DESIGNED	CHECKED	APPROVED	DATE
TB	TB	SF	SF	14/05/24
TB	TB	SF	SF	22/05/24
TB	TB	SF	SF	05/11/24
REVISION	CHANGED	CHECKED	DATE	

PROJECT DATUMS:	
LEVEL	Auckland Vertical Datum 1946
COORDINATE	New Zealand Transverse Mercator

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TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

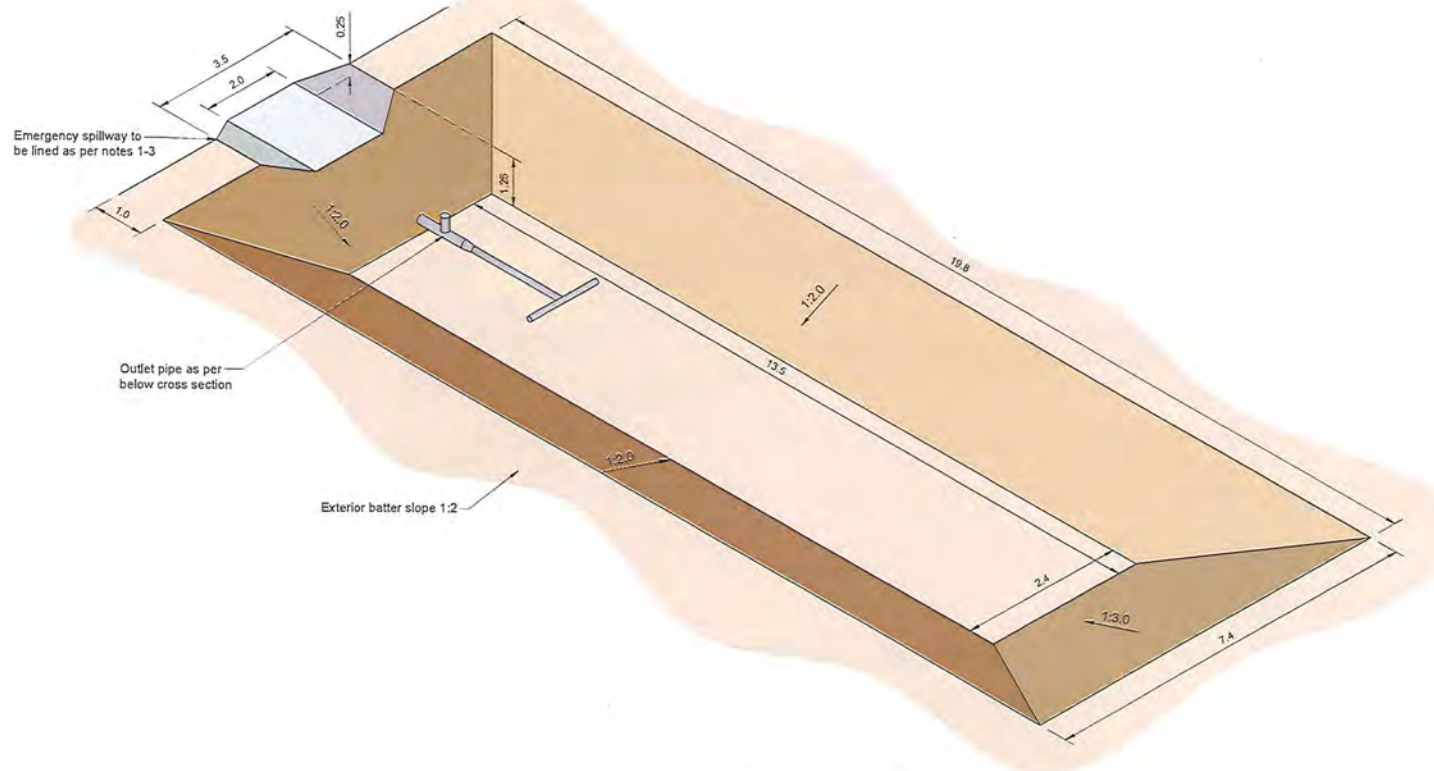
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FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION PROJECT

TITLE
PROPOSED LANDFILL CELL TYPICAL DETAIL

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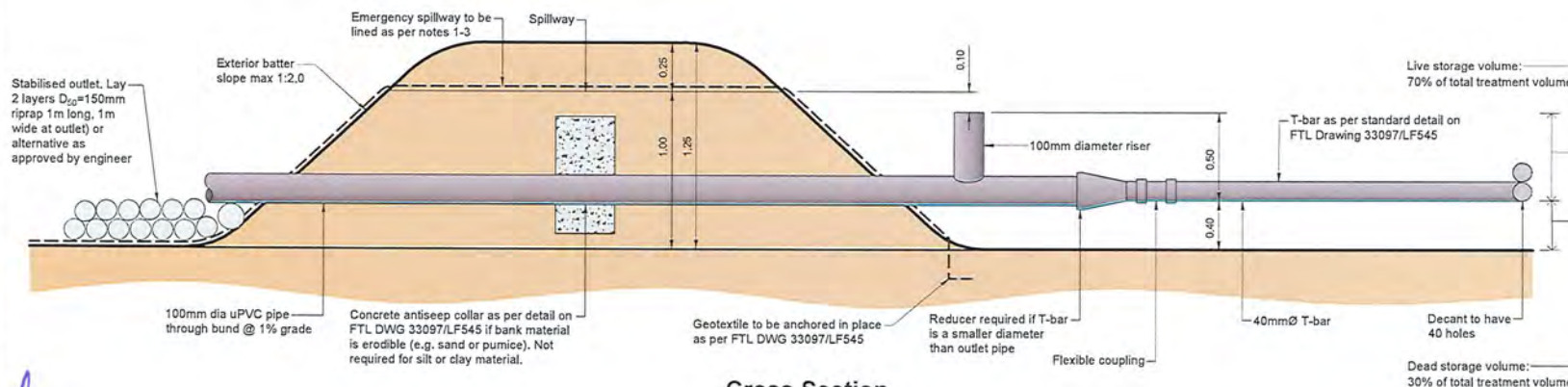
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SCALE	NTS	(A2)
DATE	33097/LF500	
REVISION		



Decanting Earth Bund Layout

NTS



Cross Section

NTS

NOT FOR CONSTRUCTION

[illegible]

Notes

1. Emergency spillway lined with strong woven low permeability geotextile (Bidim A14 or Durafloor AS240 or approved equivalent) overlaid with soft non-woven needle punched geotextile (Tencate Mirafi HP 280a, Durafloor WG30/30 or approved equivalent).
2. Emergency spillway to be secured with pins every 0.5m.
3. If the emergency spillway embankment is constructed with sand, pumice or other erodible material under the spillway lining, install waterproof layer underneath geotextile. Do not secure spillway with pins, instead follow alternative methodology provided in FTL Drawing 33097/LF545 based on Waikato Regional Council Earthworks series – erosion and sediment control factsheet 2019.

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INFORMATION NEW ZEALAND

PROJECT

PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

DECANTING EARTH BUND
DIMENSIONS PLAN

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SCALE NTS

(A3)

DRAINING

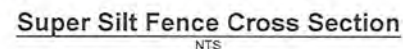
Division

33097/LF540

100



Silt Fence Standard Fabric Join
NTS



Slope %	Slope Length (m)	Spacing of Returns (m)	Length (m)
0-10	Unlimited	60	Unlimited
10-20	60	50	450
20-33	30	40	300
33-50	30	30	150
>50	15	20	75

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[illegible]

NOTES

PROJECT DATUMS:
 LEVEL: Auckland Vertical Datum 1946
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INFORMATION NEW ZEALAND

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EROSION AND SEDIMENT
CONTROL DETAILS PAGE 1



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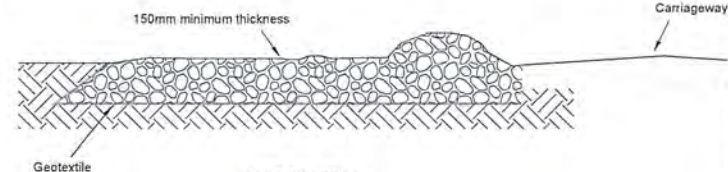
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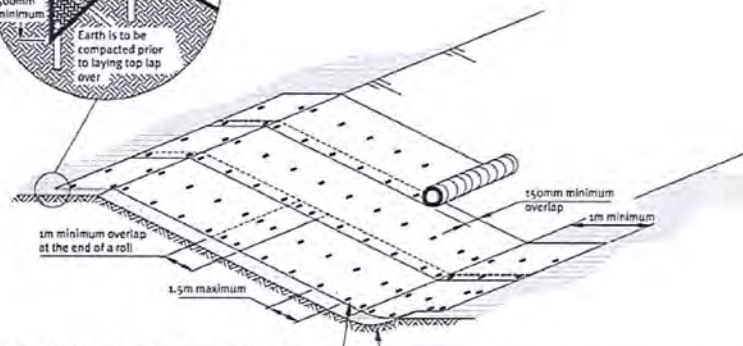
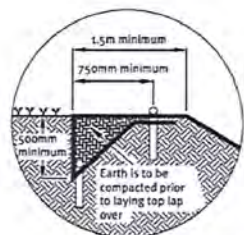
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DRAWING No.	REVISION	
33097/LF550	-	



Side elevation

NTS



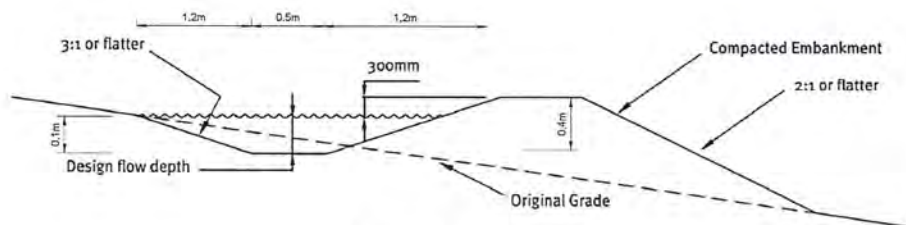
Anchor type is to be to the manufacturers recommendations.
Anchor spacing is to be to the smaller of the manufacturers
recommendation or the dimensions shown.

Where the slope terminates in an area of concentrated flow the geofabric must be laid through the flowpath and pinned down on a 500mm grid.

The diagram illustrates the plan view of a road cross-section. It shows a central aggregate base (50-150mm washed) with a width of 4m minimum. The base is flanked by a 10m minimum subgrade. The total width of the road is 10m minimum. The diagram also shows the 3m minimum width of the aggregate base and the 3m minimum width of the subgrade. The aggregate base is shown with a hatched pattern, and the subgrade is shown with a stippled pattern.

Stabilised Entranceway

Nts



Notes

1. All works to be carried out in accordance with Waikato Regional Council TR 2009/02 - Erosion and sediment control: guidelines for soil disturbing activities

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PROJECT DATUMS:

LEVEL: Auckland Vertical Datum 1946
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INFORMATION NEW ZEALAND

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TITLE	1
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EROSION AND SEDIMENT
CONTROL DETAILS PAGE 2



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33097/LF551

1000