## FORMER TOKANUI HOSPITAL

**DEMOLITION AND REMEDIATION PROJECT** 

33097

RESOURCE CONSENT

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND



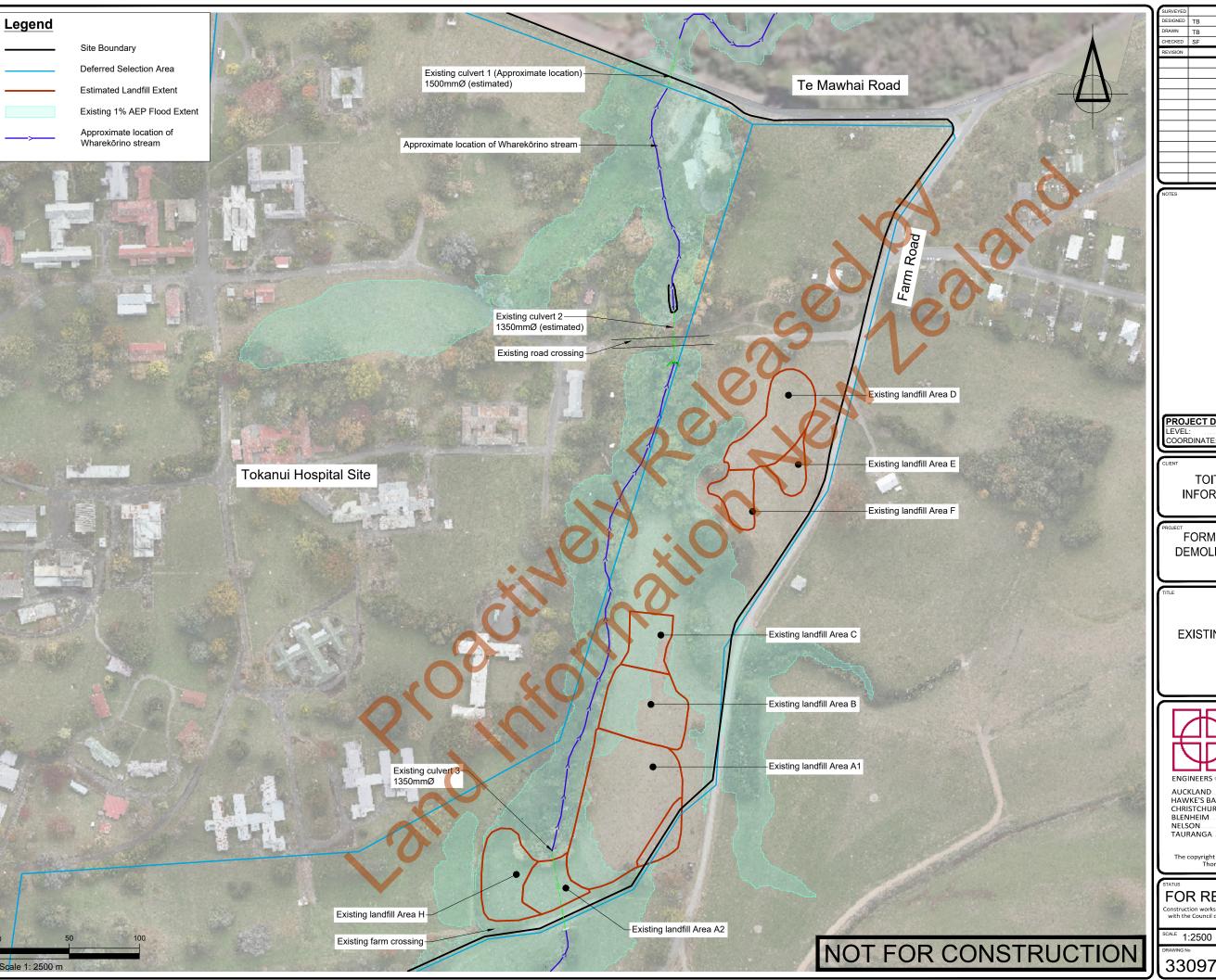
ISSUE SET 3

21/11/24

#### LIST OF DRAWINGS

	15501 511	1 -	-	I - 14
DRAWING	DRAWING TITLE			
33097/LF001	EXISTING LANDFILL OVERVIEW PLAN	-	6	_
33097/LF002	INTRUSIVE GROUND INVESTIGATION TEST PIT LOCATION PLAN 1 OF 3	1	-	Ŀ
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	T-	-	-
33097/LF110	PROPOSED NORTHERN DISPOSAL SITE CELL PROPOSED FINAL DESIGN PLAN	-	-	-
33097/LF120	PROPOSED NORTHERN DISPOSAL SITE CELL BASE OF CELL LEVELS PLAN	T-	-	Α
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	-	-	Α
33097/LF219	PROPOSED SOUTHERN DISPOSAL SITE CELL PROPOSED TOE BUND PLAN			-
33097/LF220	PROPOSED SOUTHERN DISPOSAL SITE CELL BASE OF CELL LEVELS PLAN	-	-	Α

33097/LF221	PROPOSED SOUTHERN DISPOSAL SITE CELL FINISHED GROUND LEVELS PLAN	-	-	Α
33097/LF230	PROPOSED SOUTHERN DISPOSAL SITE CELL CROSS SECTIONS SHEET 1	-	-	Α
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	-	-	Α
33097/LF241	PROPOSED SOUTHERN DISPOSAL SITE CELL REFUSE FILLING PLAN	-	-	Α
33097/LF250	PROPOSED SOUTHERN DISPOSAL SITE CELL GROUNDWATER DRAIN LONG SECTION AND DETAIL	-	-	Α
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	-	-	Α
33097/LF291	PROPOSED SOUTHERN DISPOSAL SITE CELL EROSION AND SEDIMENT CONTROL PLAN PHASE 2	-	-	Α
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	-	Α	Α
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	-	Α	Α
33097/LF390	AREAS A2/H & CULVERT 3 EROSION AND SEDIMENT CONTROL PLAN	-	Α	Α
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	-	-	-



SURVEYED			APPROVED		DATE
DESIGNED	ТВ	14/08/24		SF	
DRAWN	ТВ	15/08/24		اد 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
		-			
			-		

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

**EXISTING LANDFILL OVERVIEW** PLAN



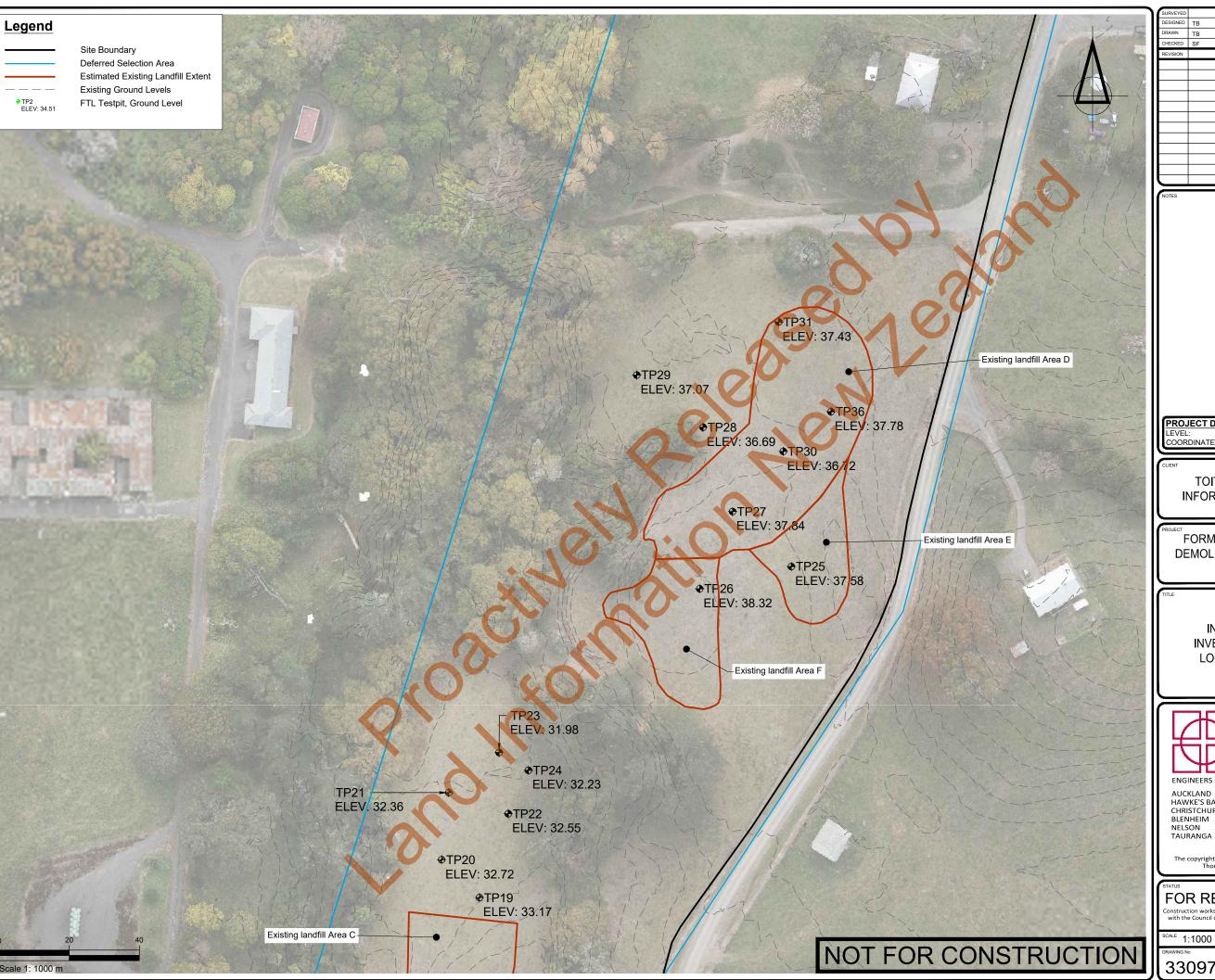
## Fraser

AUCKLAND. ..09 278 7078

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

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT



SURVEYED			APPROVED		DATE
DESIGNED	TB	14/08/24	9	SF	
DRAWN	TB	15/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

> INTRUSIVE GROUND INVESTIGATION TEST PIT LOCATION PLAN 1 OF 3

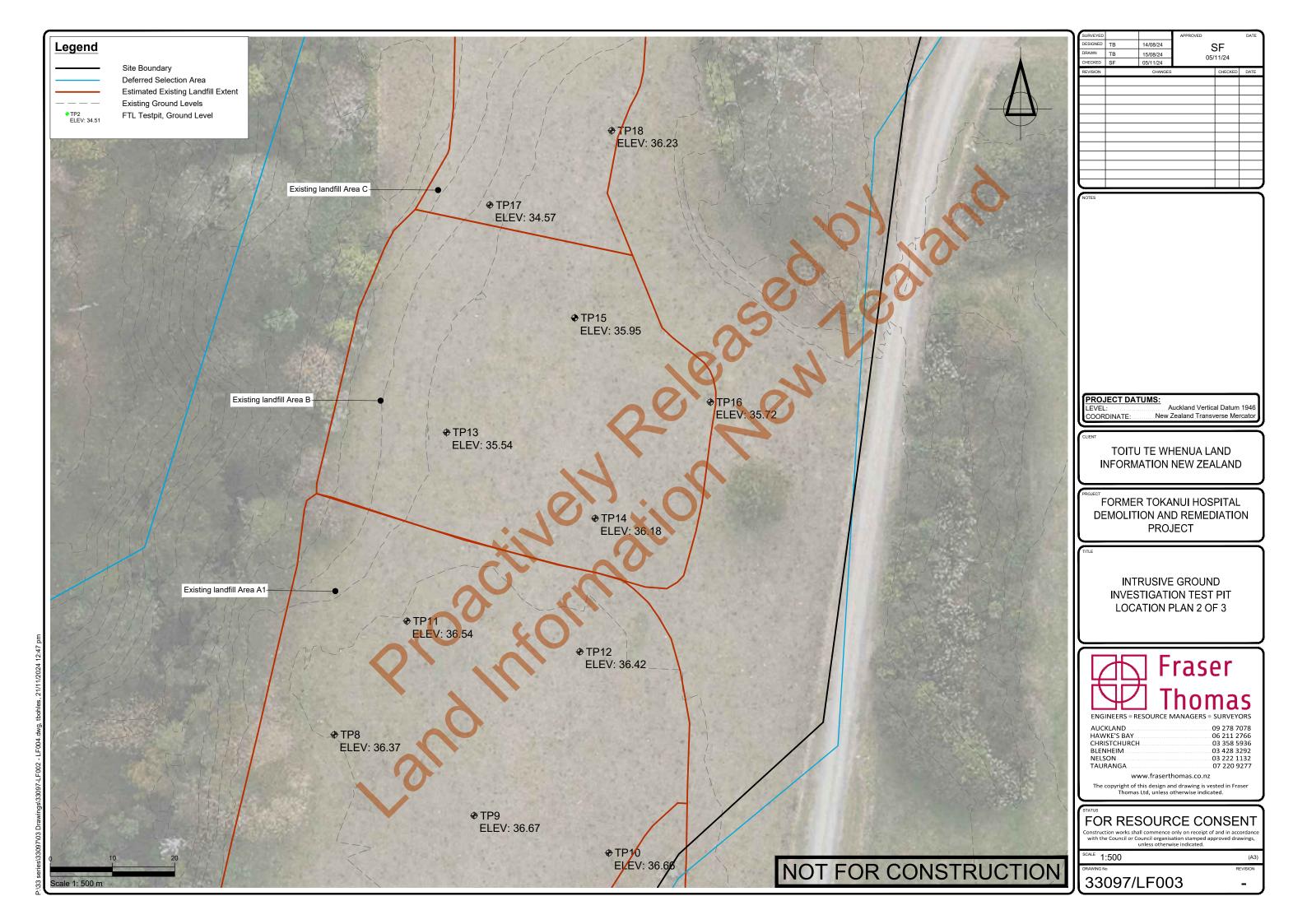


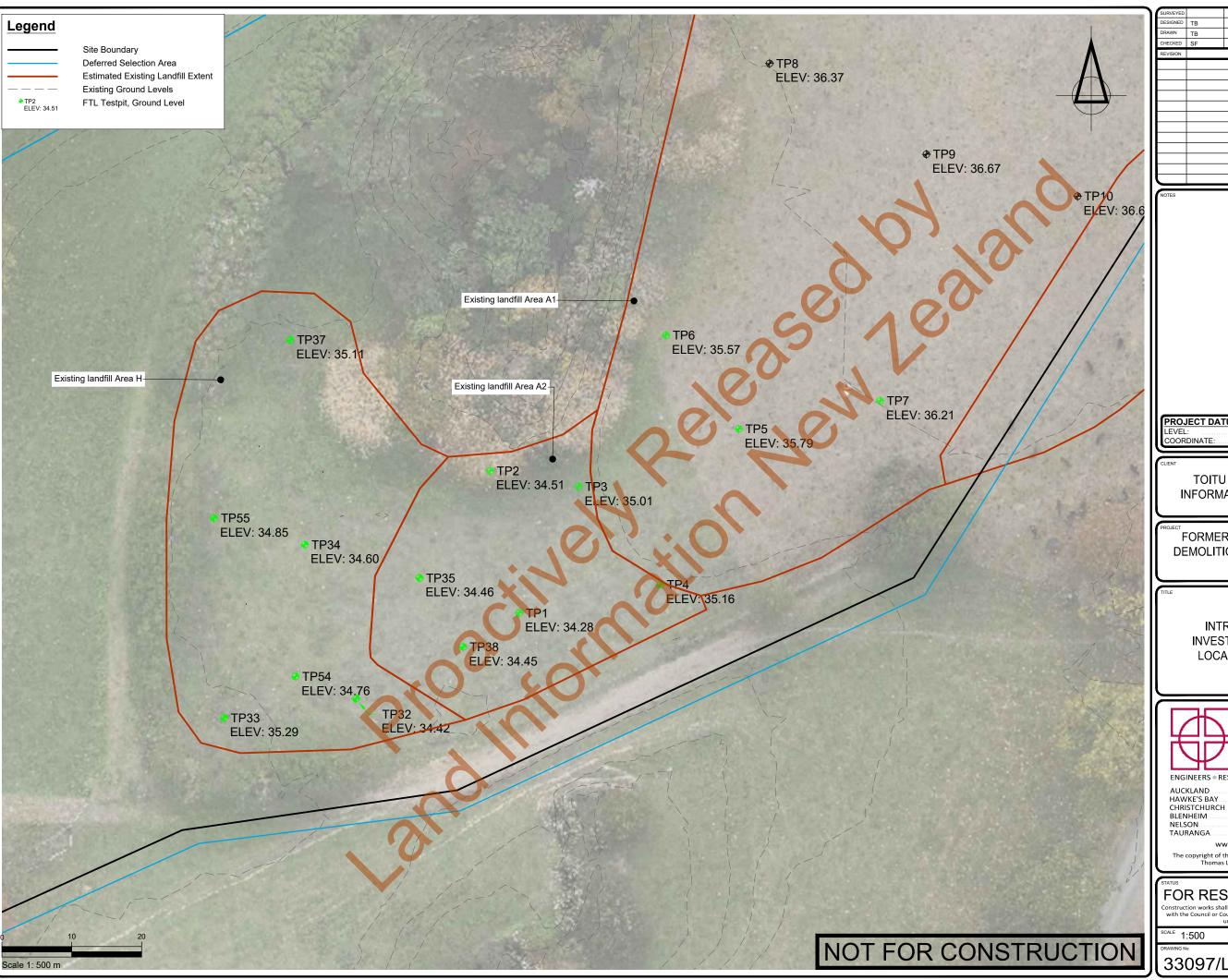
HAWKE'S BAY CHRISTCHURCH BLENHEIM NELSON .06 211 2766 .03 358 5936 03 428 3292 03 222 1132 TAURANGA ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

1:1000





14/08/24 SF 15/08/24 05/11/24

PROJECT DATUMS:

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

Auckland Vertical Datum 1946 New Zealand Transverse Merca

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

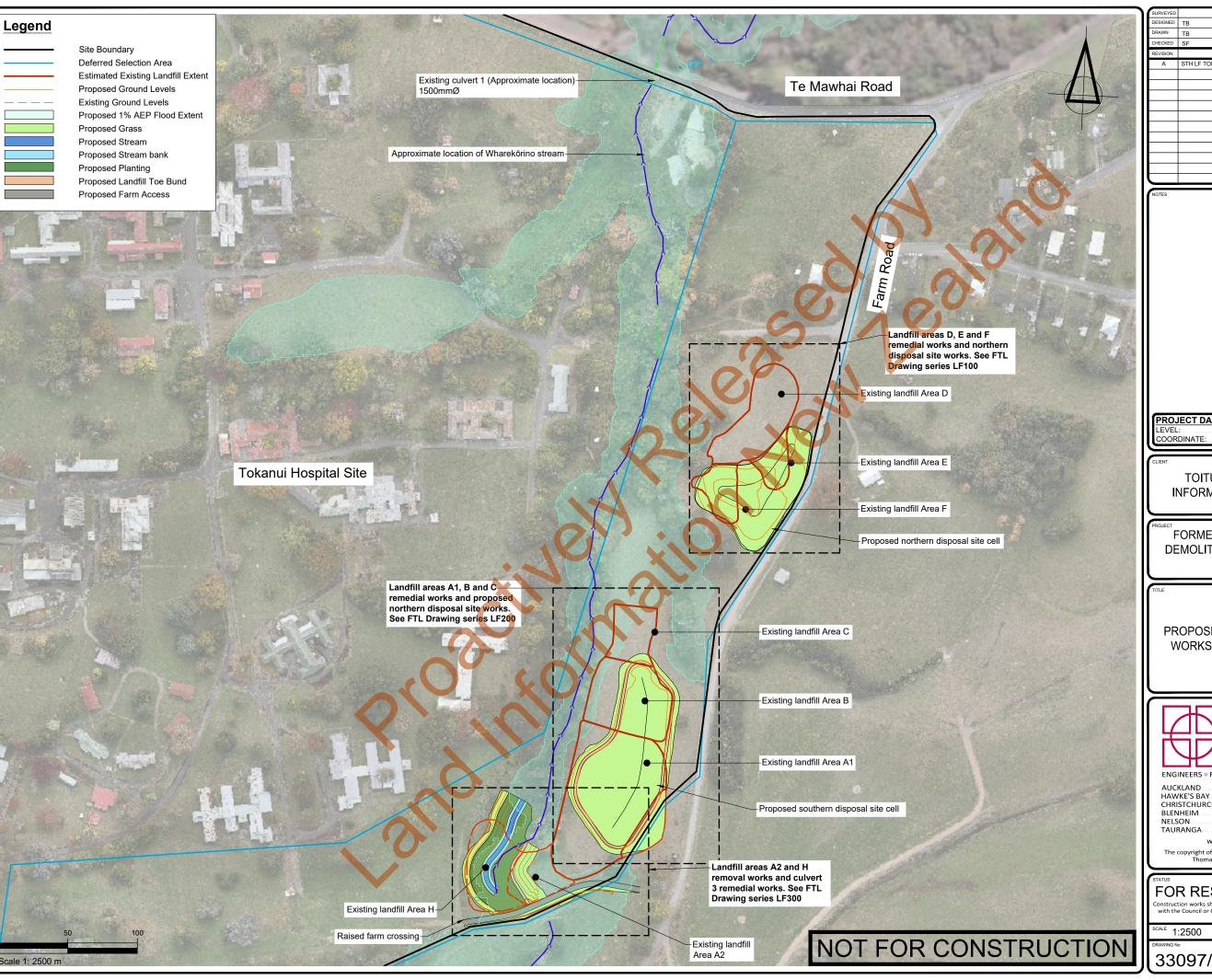
> INTRUSIVE GROUND INVESTIGATION TEST PIT LOCATION PLAN 3 OF 3



.06 211 2766 .03 358 5936 03 428 3292 03 222 1132 ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT



SURVETED			APPROVED		DATE
DESIGNED	TB	14/08/24		SF	
DRAWN	TB	15/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
Α	STH LF TOE	BUND ADDE	)	SF	20/11/24
1					

New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

Auckland Vertical Datum 1946

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

PROPOSED LANDFILL REMEDIAL WORKS SITE OVERVIEW PLAN



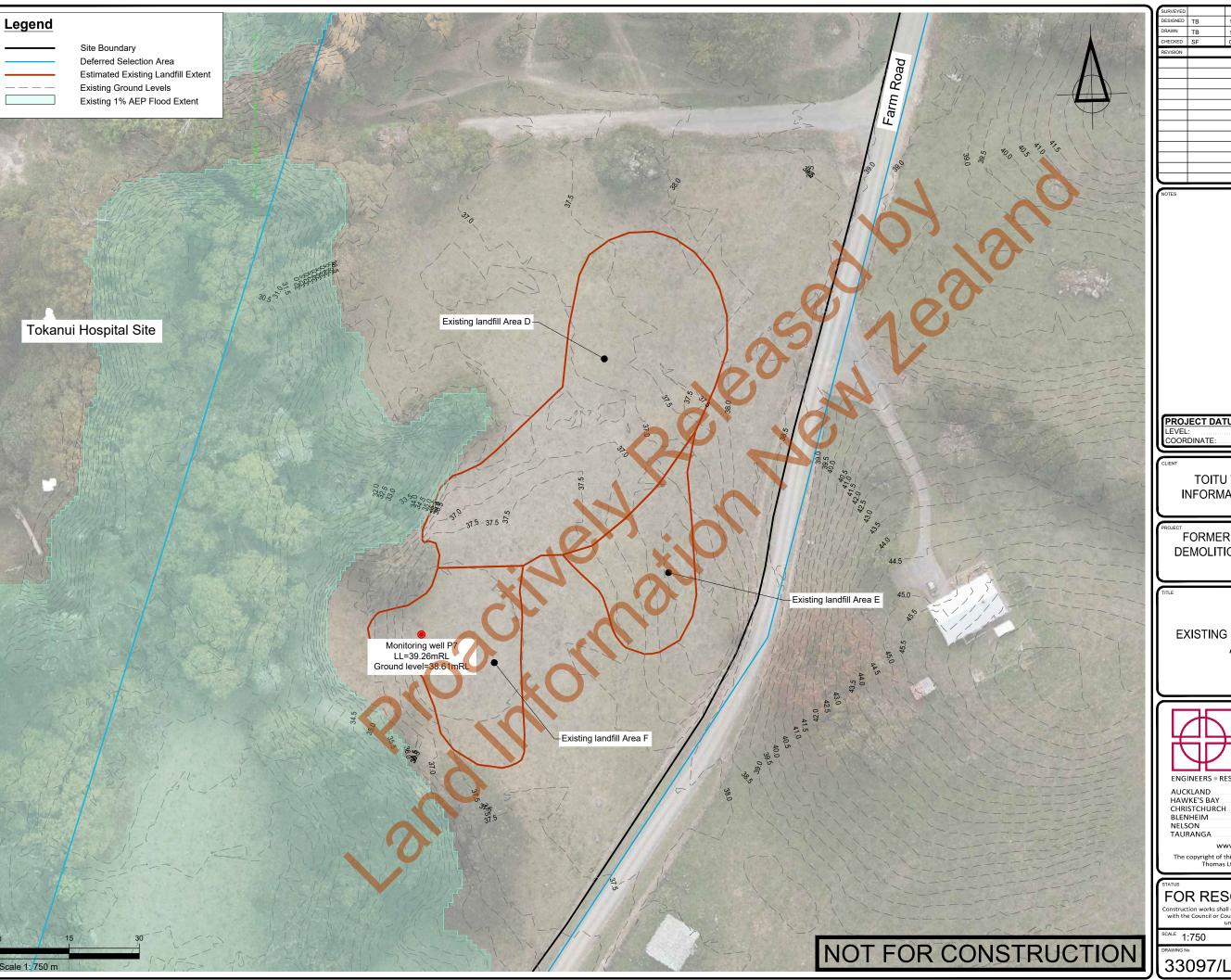
..09 278 7078 HAWKE'S BAY CHRISTCHURCH .06 211 2766 .03 358 5936 03 428 3292 03 222 1132

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

33097/LF010

..07 220 9277



DESIGNED	TB	14/08/24		SF	
DRAWN	TB	15/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

EXISTING LANDFILL AREAS D, E AND F PLAN



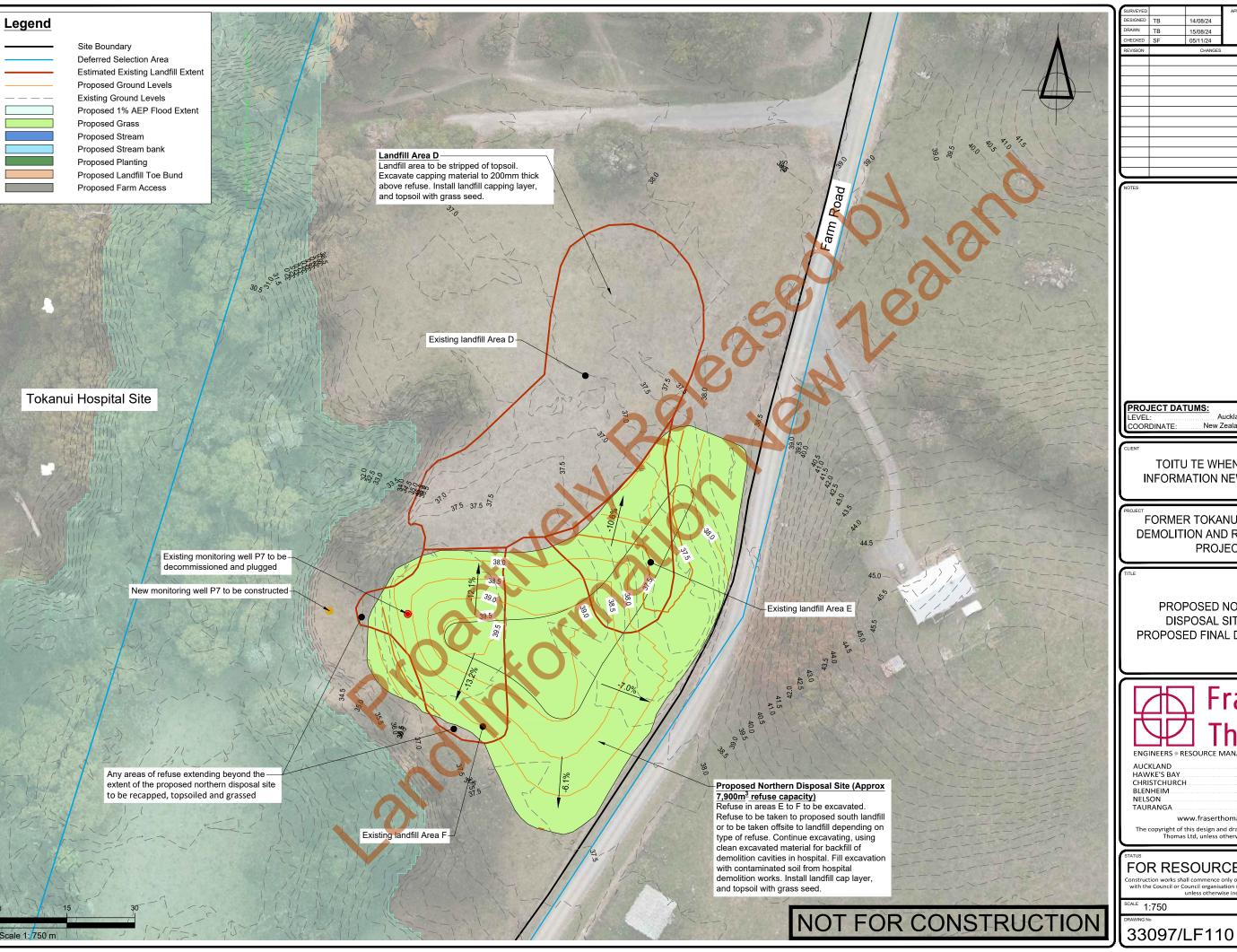
## Fraser

.06 211 2766 .03 358 5936 03 428 3292 03 222 1132 ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

1:750



SF 15/08/24 05/11/24

> Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

PROPOSED NORTHERN DISPOSAL SITE CELL PROPOSED FINAL DESIGN PLAN

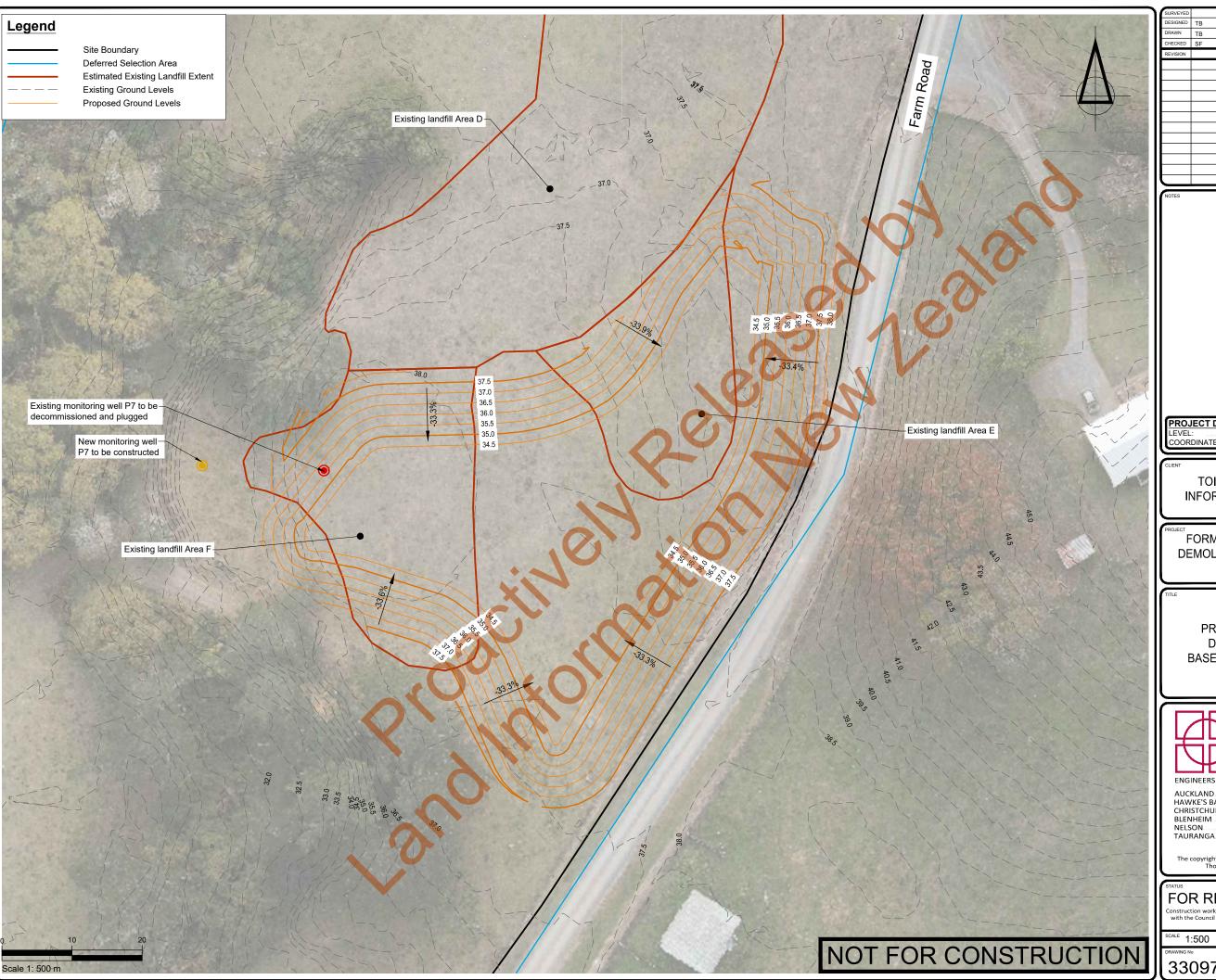


..09 278 7078

.06 211 2766 .03 358 5936 03 428 3292 03 222 1132 ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT



SURVEYED			APPROVED		DATE
DESIGNED	TB	14/08/24		SF	
DRAWN	TB	21/08/24	05/11/24		
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
			·		

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

> PROPOSED NORTHERN DISPOSAL SITE CELL BASE OF CELL LEVELS PLAN

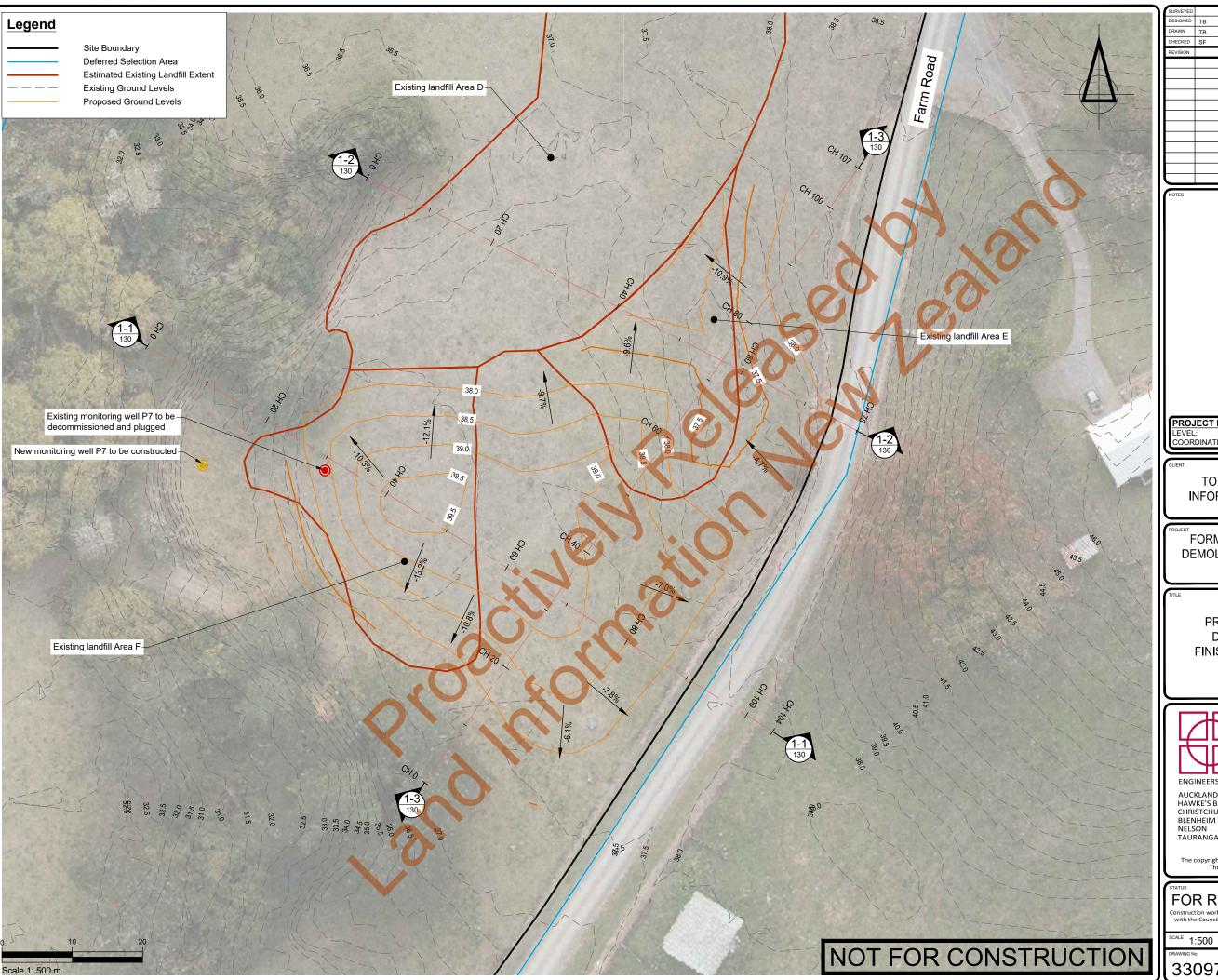


HAWKE'S BAY CHRISTCHURCH BLENHEIM NELSON .06 211 2766 .03 358 5936 03 428 3292 03 222 1132

..07 220 9277 The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

1:500



DESIGNED	TB	14/08/24		SF 05/11/24	
DRAWN	TB	21/08/24			
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

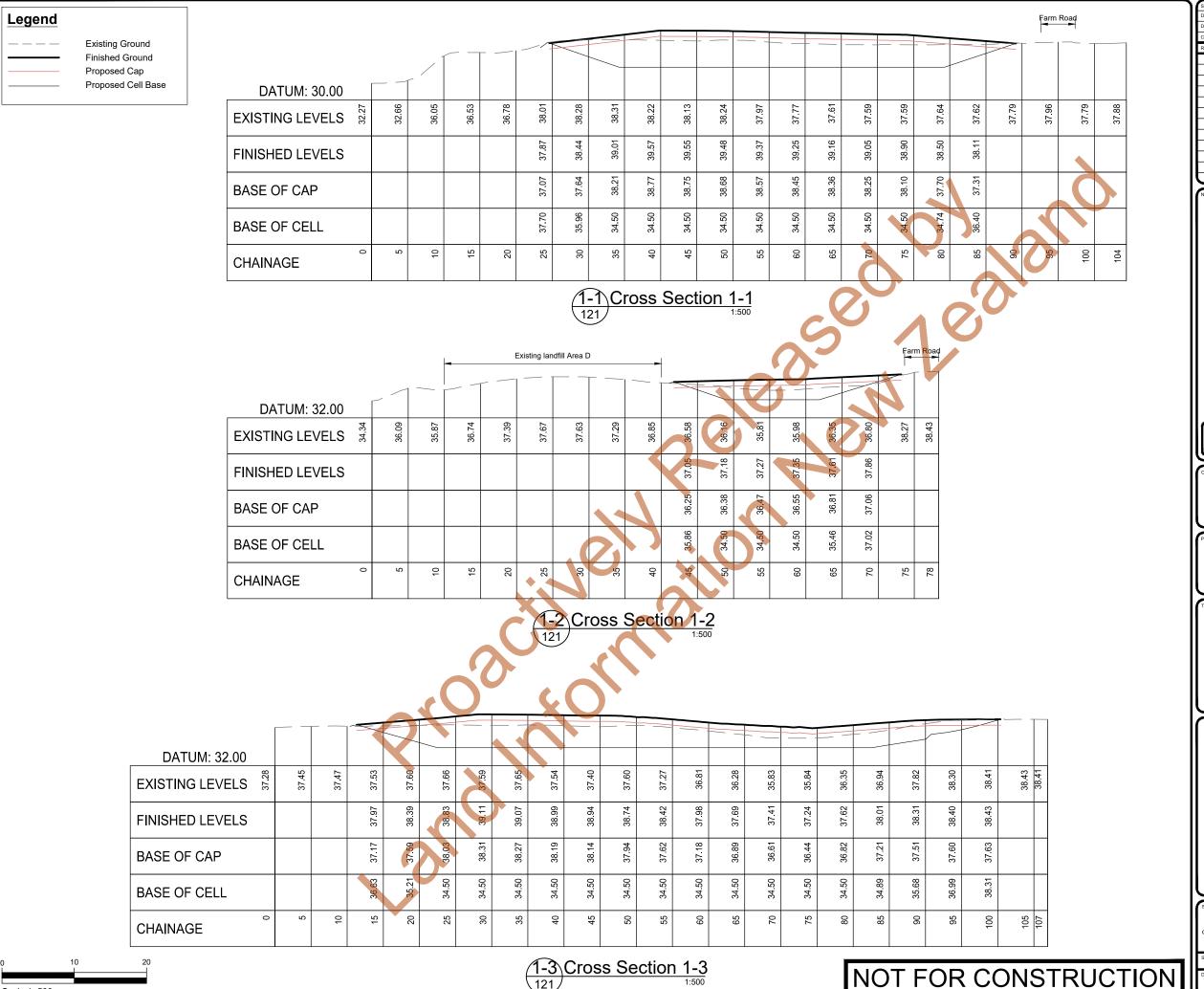
PROPOSED NORTHERN DISPOSAL SITE CELL FINISHED GROUND LEVELS PLAN



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

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT



Scale 1: 500 m

NOTES

OJECT DATUMS:

EVEL: Auckland Vertical Datum 1946 OORDINATE: New Zealand Transverse Mercator

CLIENT

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

ITLE

PROPOSED NORTHERN DISPOSAL SITE CELL CROSS SECTIONS



www.fraserthomas.co.nz

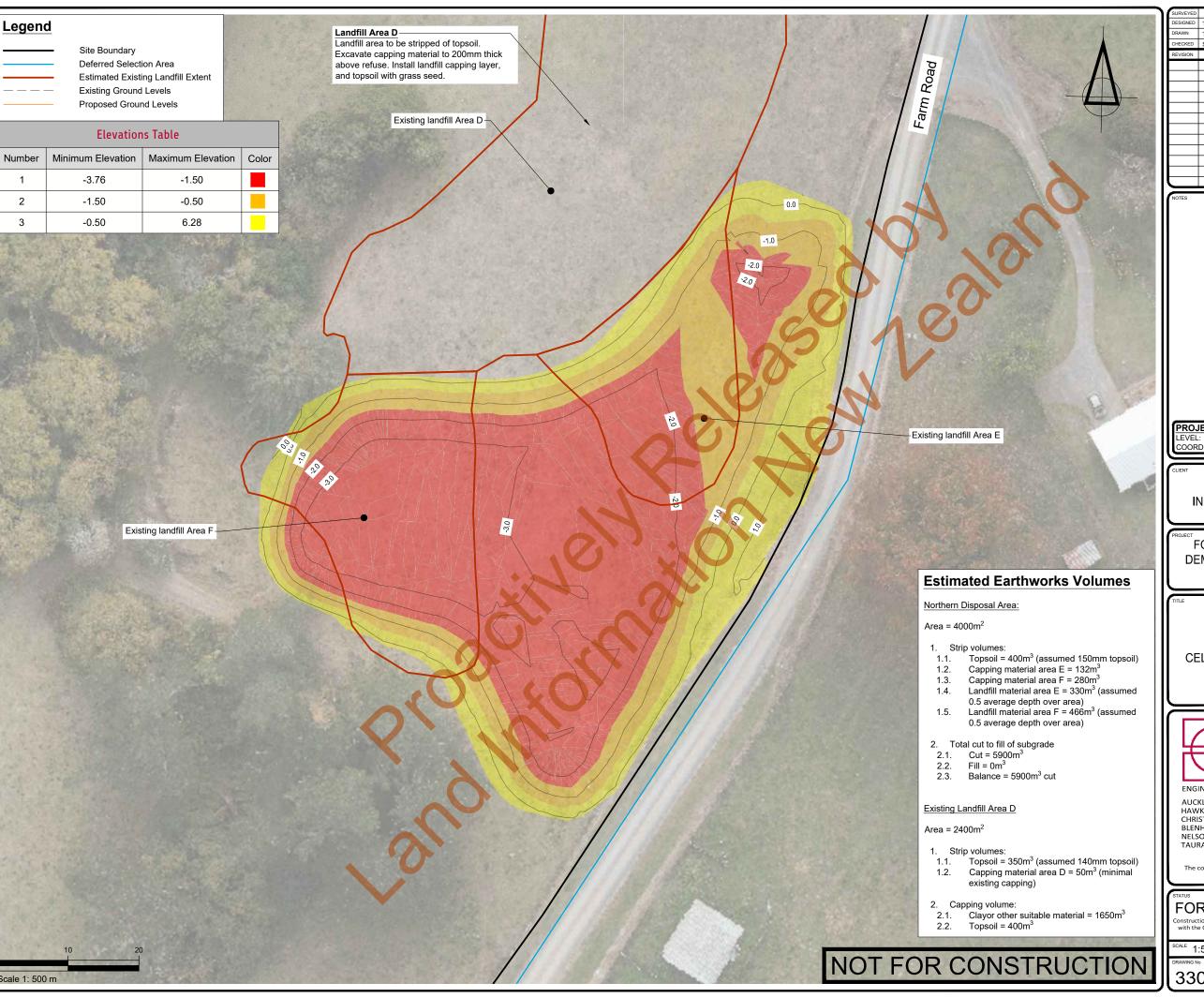
The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT
Construction works shall commence only on receipt of and in accordance

1:500

33097/LF130

REVIS



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

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

PROPOSED NORTHERN DISPOSAL SITE CELL CELL FORMATION CUT AND FILL PLAN



**ENGINEERS • RESOURCE MANAGERS • SURVEYORS** 

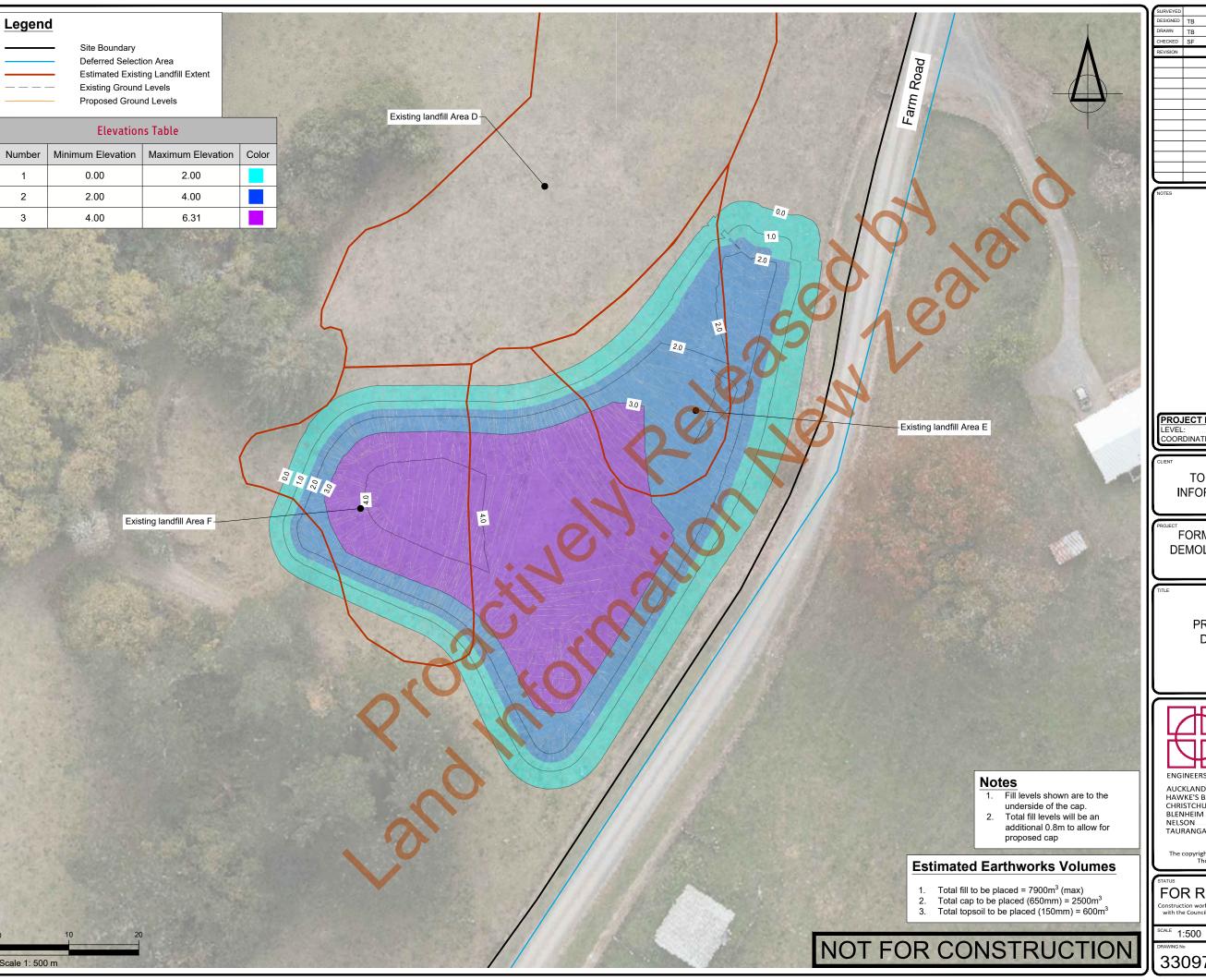
AUCKLAND. ..09 278 7078 HAWKE'S BAY CHRISTCHURCH .06 211 2766 .03 358 5936 03 428 3292 03 222 1132 BLENHEIM... NELSON... TAURANGA ..07 220 9277

www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

1:500



CONTENED			74 THOYED		D/(12
DESIGNED	TB	14/08/24		SF	
DRAWN	TB	21/08/24	05/11/24		
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
			•		

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

> PROPOSED NORTHERN DISPOSAL SITE CELL FILLING PLAN

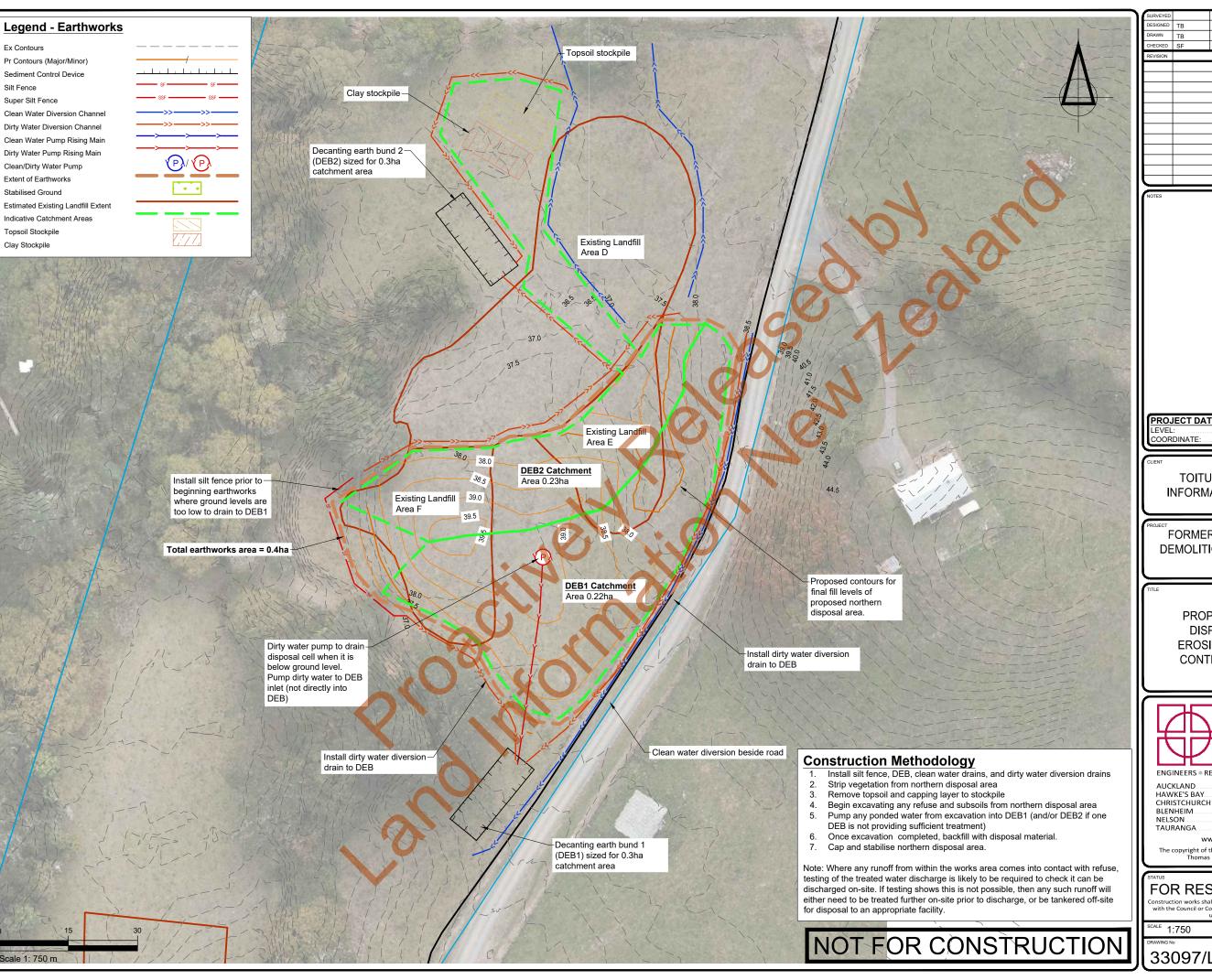


## Fraser

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

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT



SF 15/08/24 05/11/24

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

Auckland Vertical Datum 1946

New Zealand Transverse Merca

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

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



# **Fraser**

AUCKLAND.

**ENGINEERS • RESOURCE MANAGERS • SURVEYORS** 09 278 7078 .06 211 2766 .03 358 5936 03 428 3292 03 222 1132

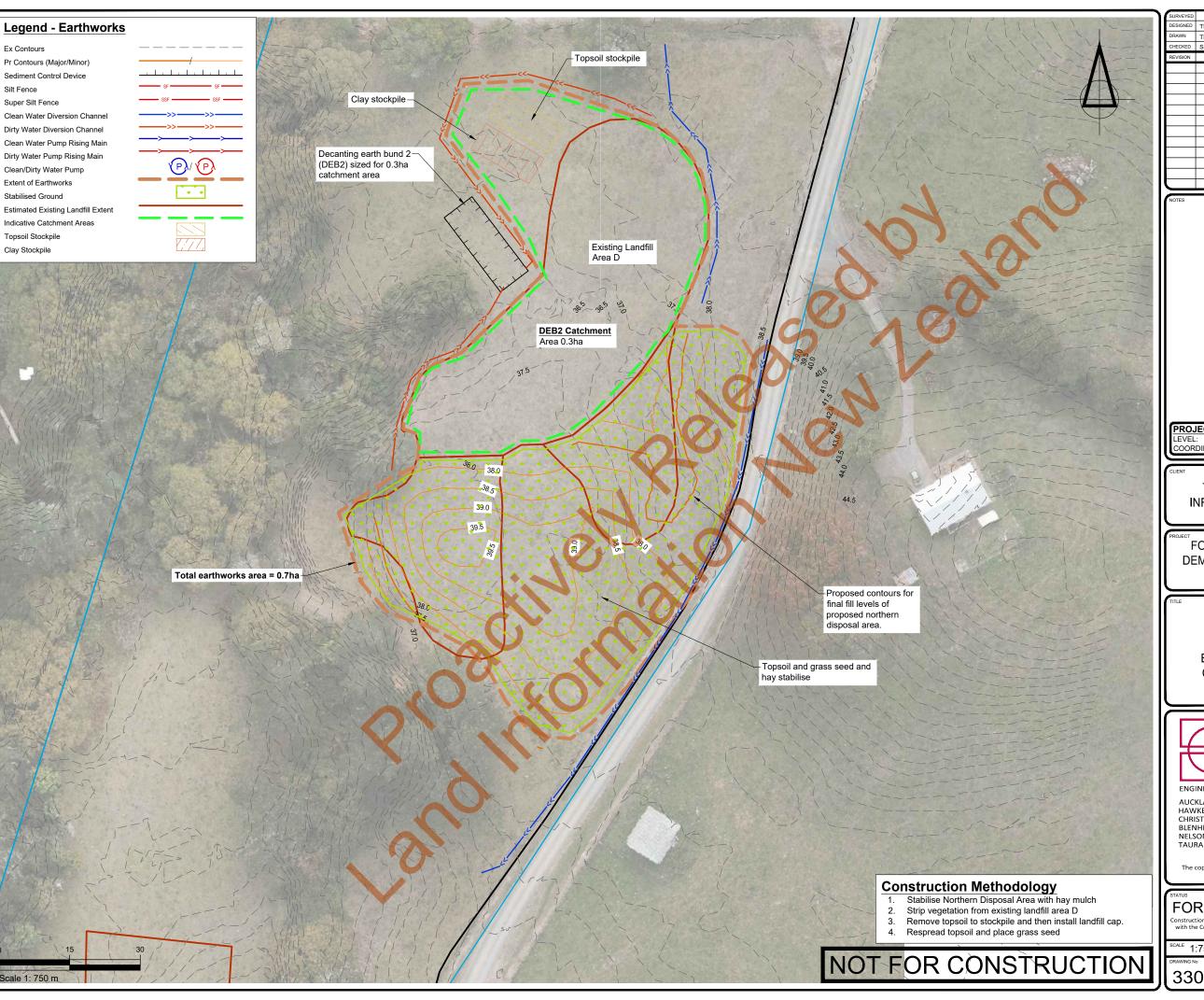
..07 220 9277

www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

ruction works shall commence only on receipt of and in accordance



CONTENED			74 THOVED		Ditte
DESIGNED	TB	14/08/24		SF	
DRAWN	TB	15/08/24	05/11/24		
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

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



## Fraser

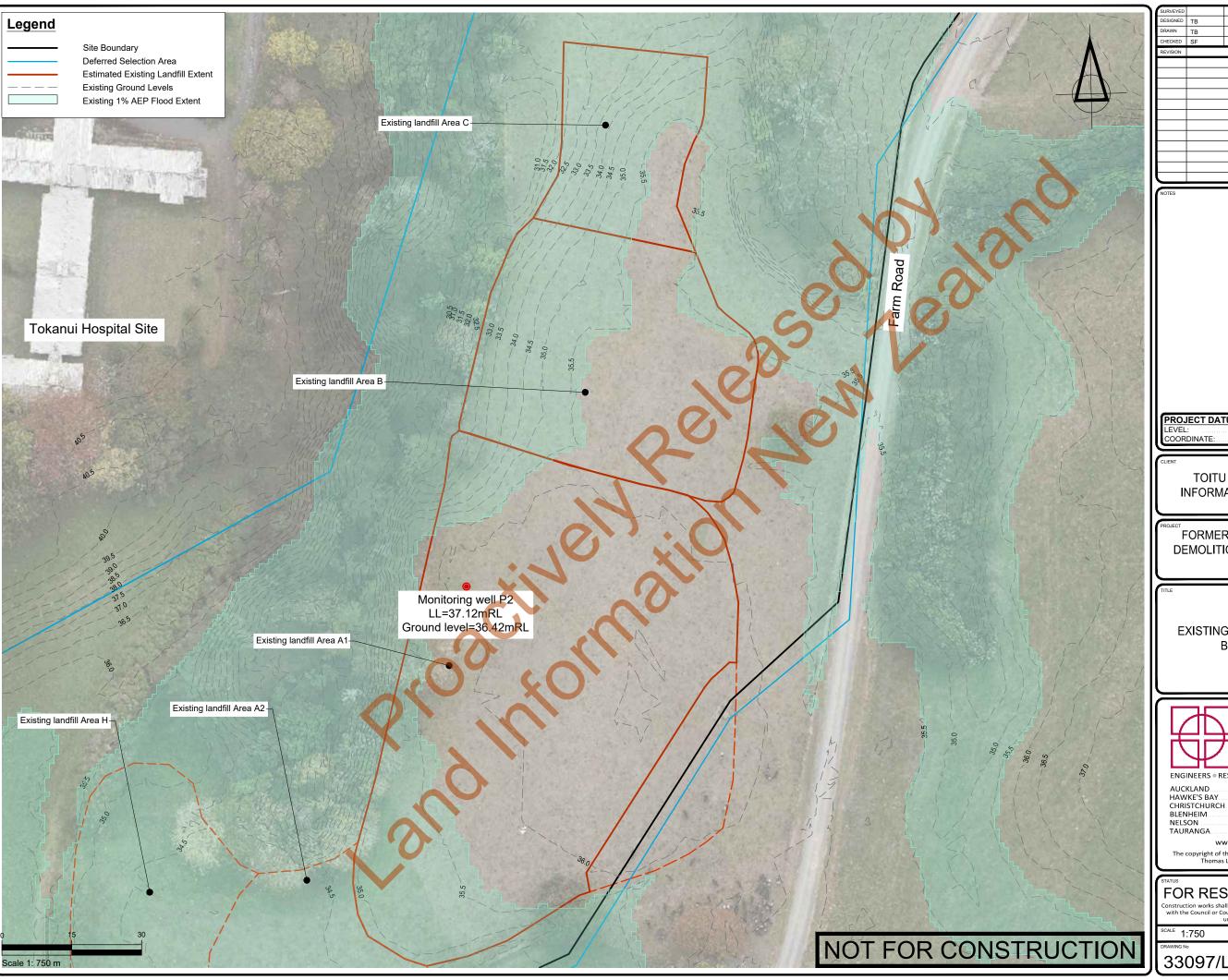
AUCKLAND.

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

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

1:750



SF 15/08/24 05/11/24

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

EXISTING LANDFILL AREAS A1, B, AND C PLAN

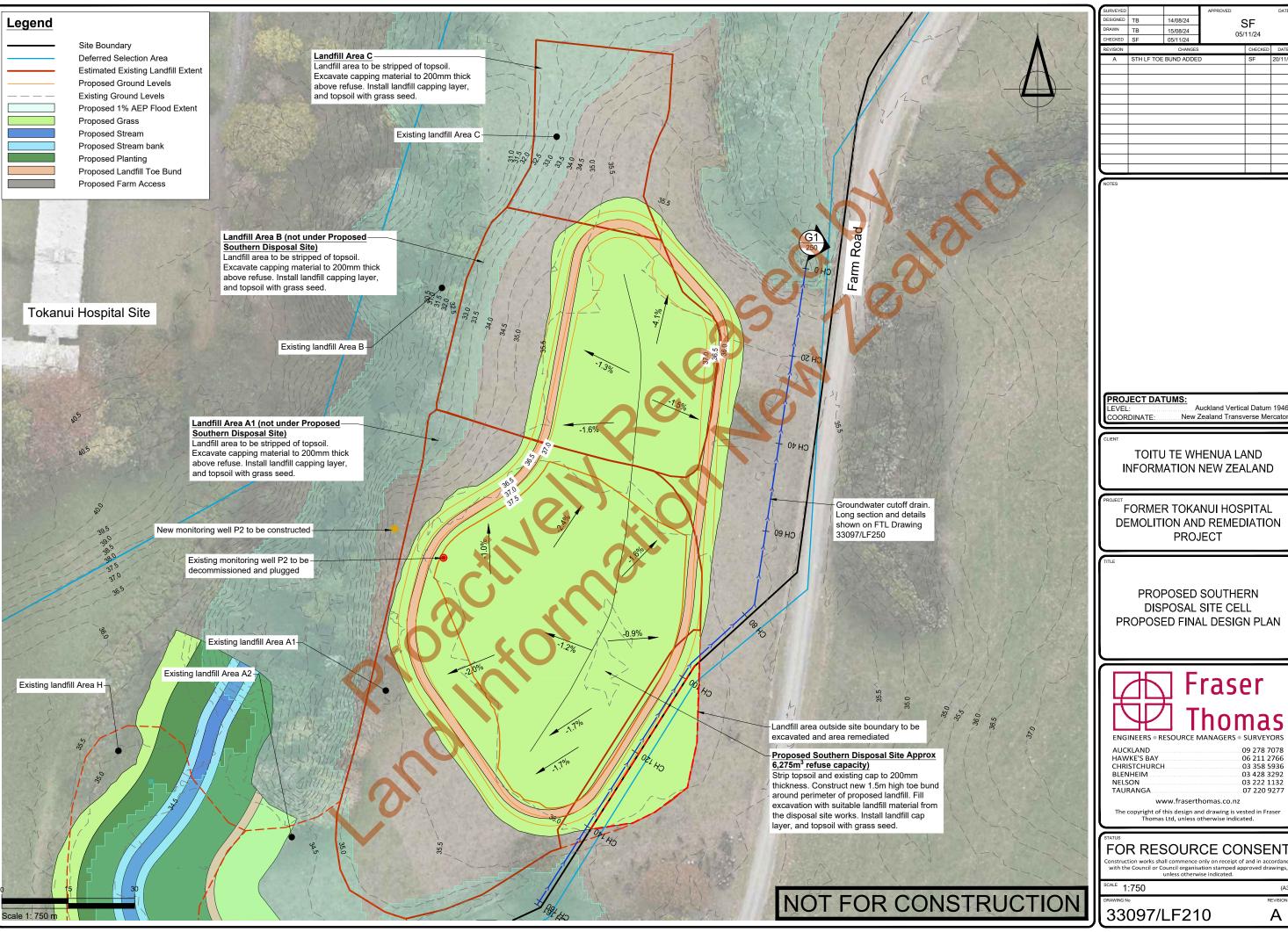


..09 278 7078 .06 211 2766 .03 358 5936

03 428 3292 03 222 1132 ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT



SF 05/11/24

> TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION** 

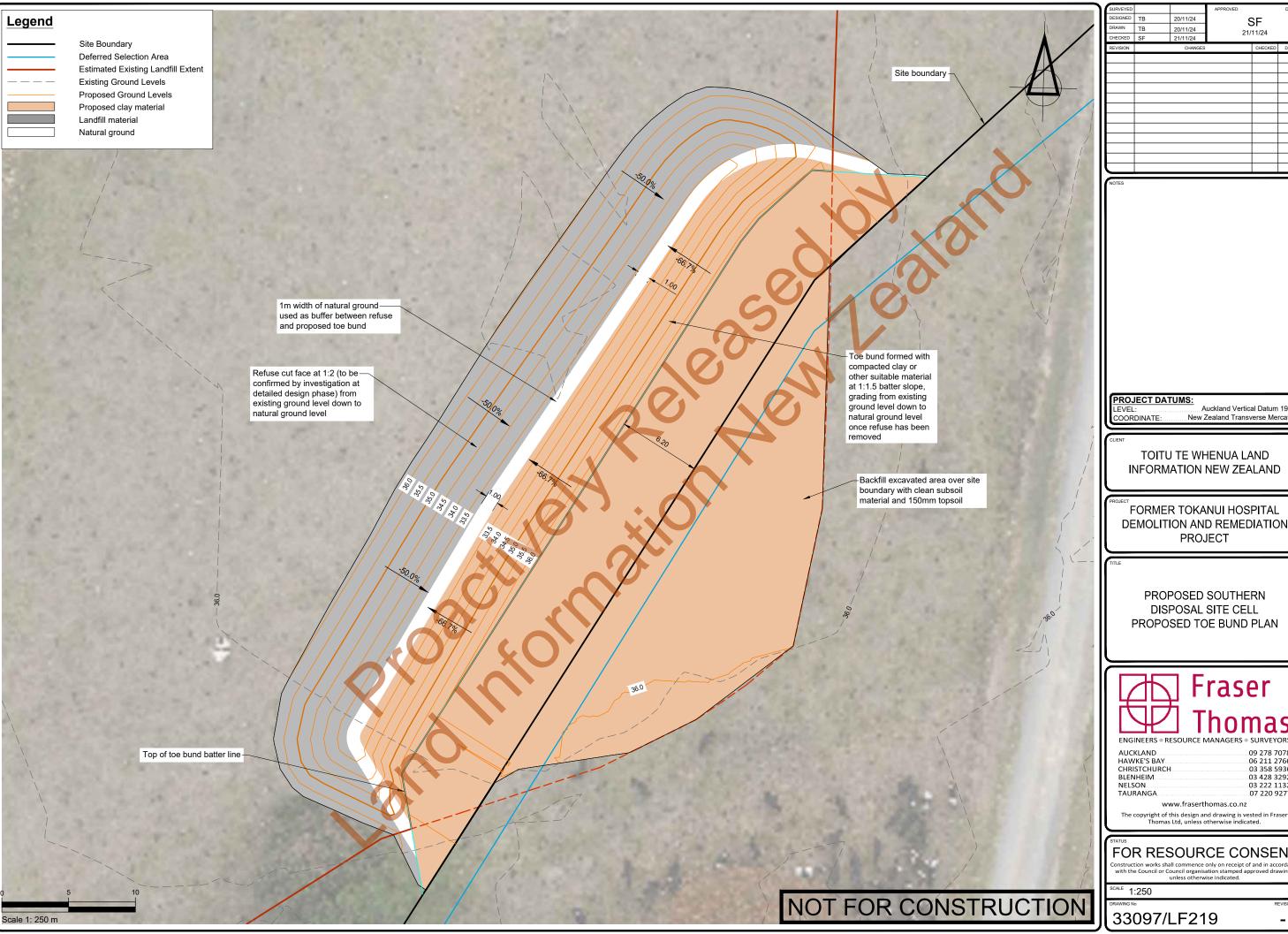
PROPOSED SOUTHERN DISPOSAL SITE CELL PROPOSED FINAL DESIGN PLAN



..09 278 7078 .06 211 2766 .03 358 5936

03 428 3292 03 222 1132 ..07 220 9277

FOR RESOURCE CONSENT



DESIGNED	ТВ	20/11/24		SF	
DRAWN	ТВ	20/11/24		ار 11/24	
CHECKED	SF	21/11/24	21/	11/24	
REVISION		CHANGES		CHECKED	DATE
		Ť	•		

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

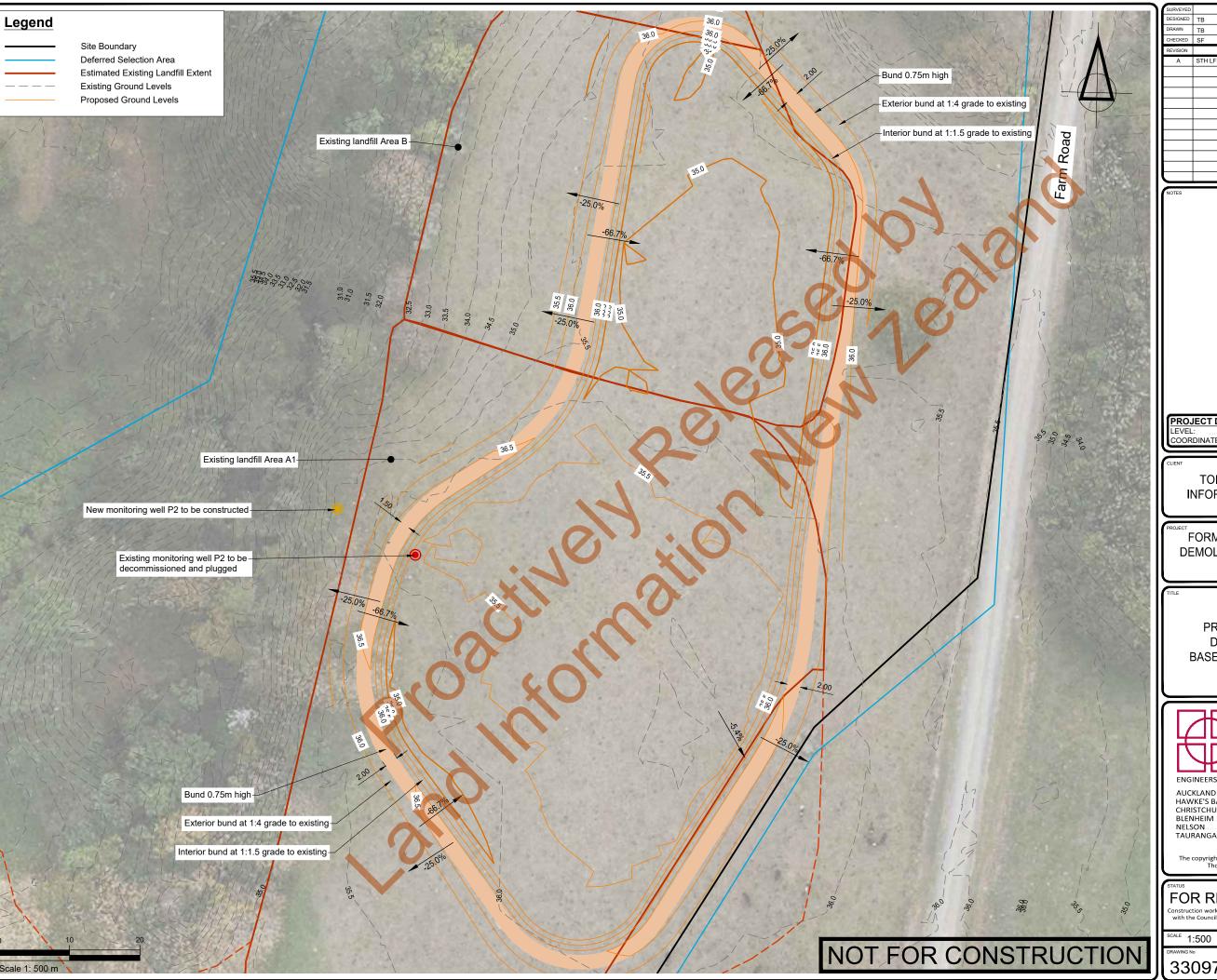
PROPOSED SOUTHERN DISPOSAL SITE CELL PROPOSED TOE BUND PLAN



..09 278 7078 .06 211 2766 .03 358 5936

03 428 3292 03 222 1132 ..07 220 9277

FOR RESOURCE CONSENT



SURVEYED			APPROVED		DATE
DESIGNED	TB	14/08/24		SF	
DRAWN	TB	21/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
Α	STH LF TOE	BUND ADDE	)	SF	20/11/24

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

PROPOSED SOUTHERN DISPOSAL SITE CELL BASE OF CELL LEVELS PLAN



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

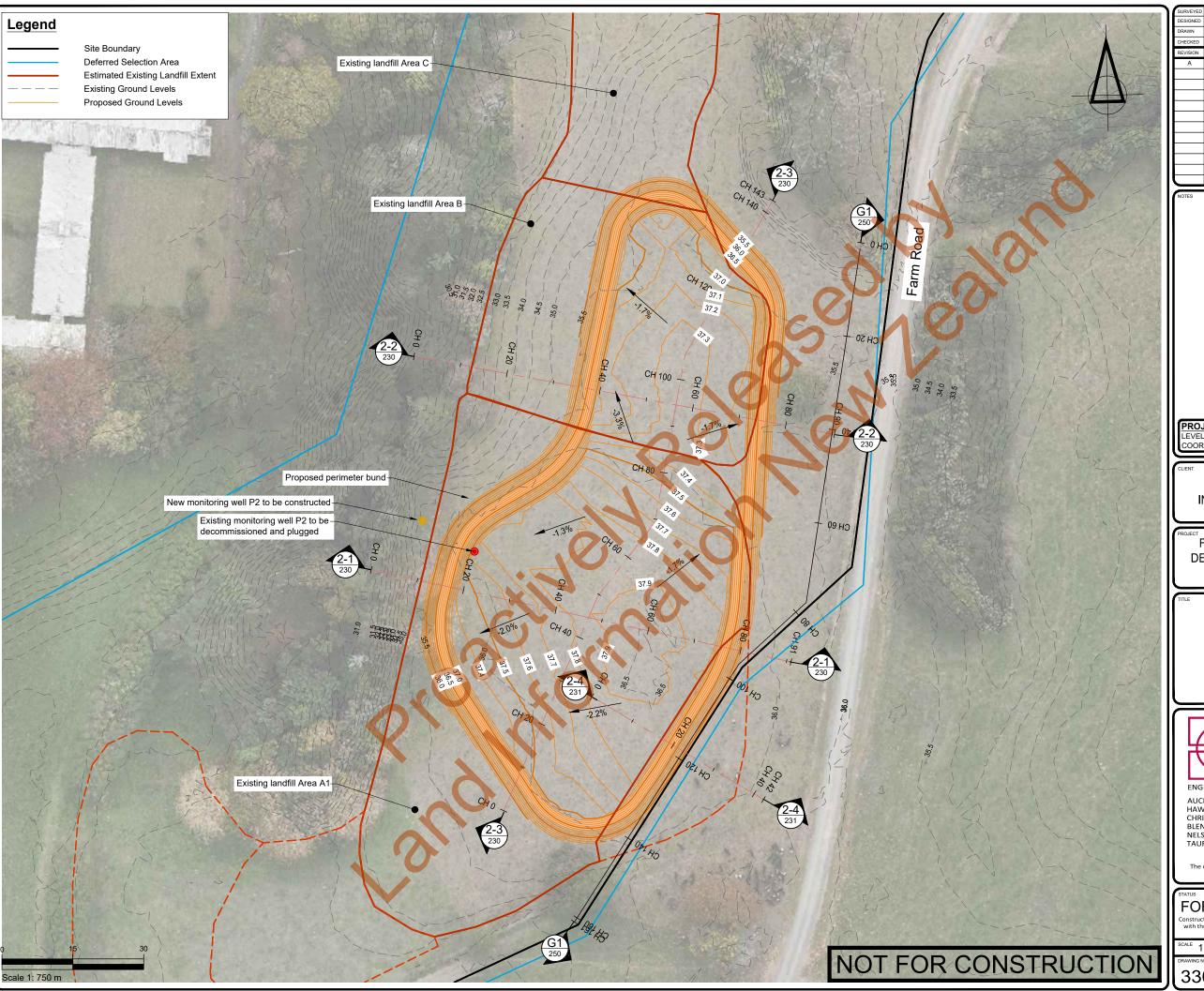
The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

1:500

33097/LF220

Α



_	SURVEYED			APPROVED		DATE
9	DESIGNED	TB	14/08/24		SF	
	DRAWN	TB	21/08/24		וכ 11/24	
	CHECKED	SF	05/11/24	03/	11/24	
	REVISION		CHANGES		CHECKED	DATE
4	Α	STH LF TOE	BUND ADDE	)	SF	20/11/24
- 3						
26						
9						
-						
$\sim$						
- 1						
33						
-0						
100						
10						

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

PROPOSED SOUTHERN DISPOSAL SITE CELL FINISHED GROUND LEVELS PLAN

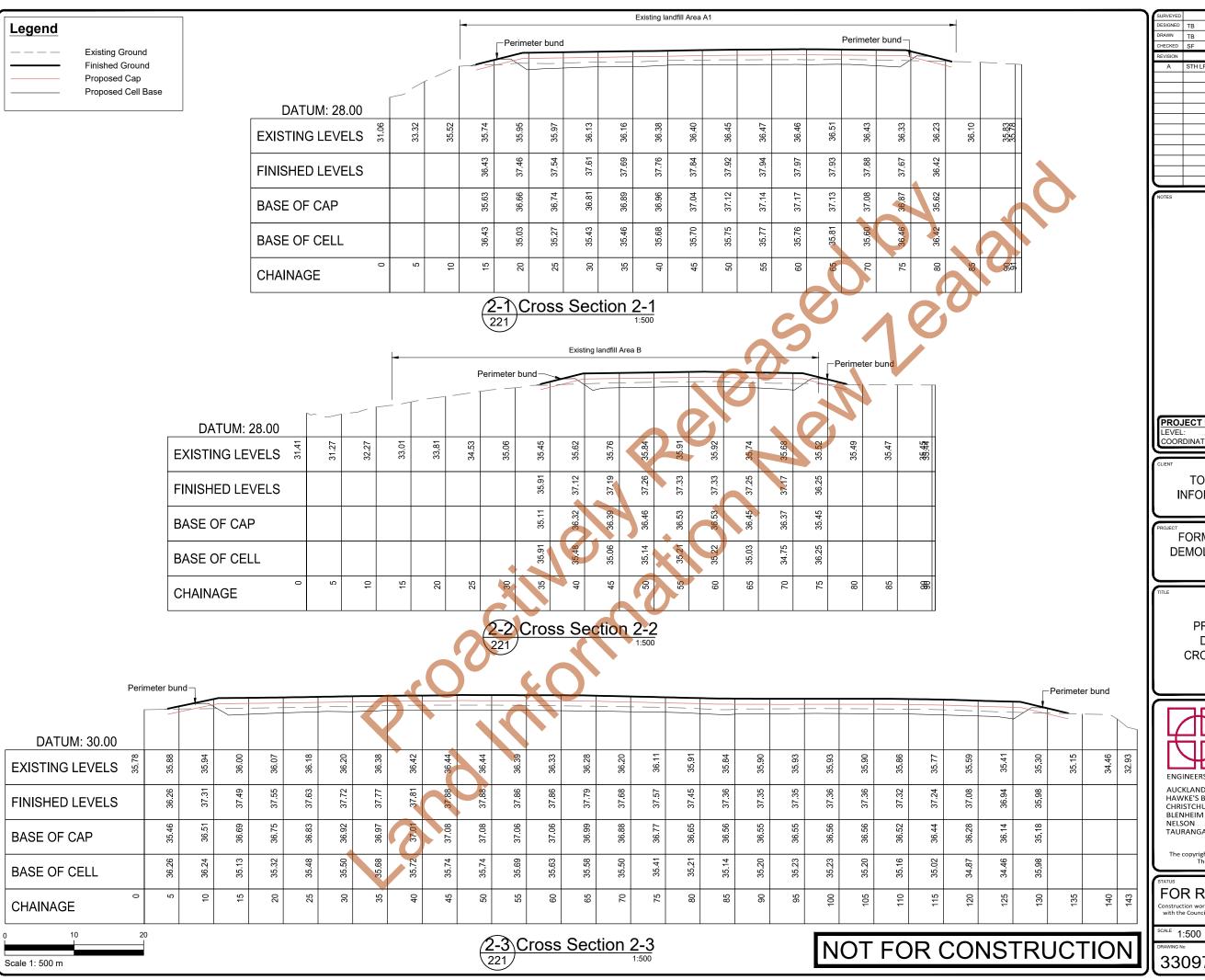


AUCKLAND HAWKE'S BAY CHRISTCHURCH BLENHEIM NELSON TAURANGA .06 211 2766 .03 358 5936 03 428 3292 03 222 1132 ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

1:750



14/08/24 SF 21/08/24 05/11/24

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

PROPOSED SOUTHERN DISPOSAL SITE CELL **CROSS SECTIONS SHEET 1** 



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

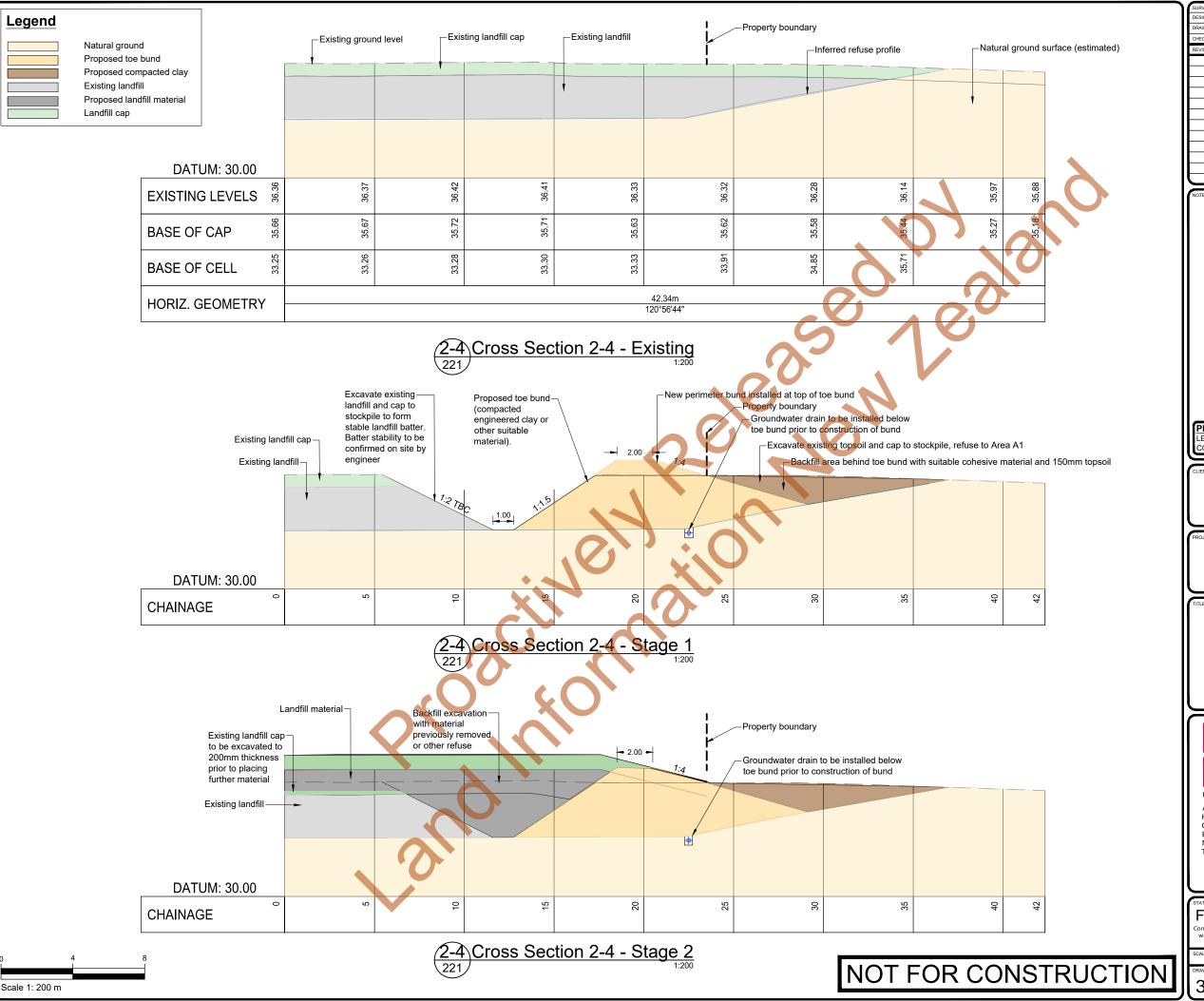
www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

33097/LF230

Α



DESIGNED	ТВ	20/11/24		SF	
DRAWN	ТВ	20/11/24		וכ 11/24	
CHECKED	SF	21/11/24	21/	11/24	
REVISION		CHANGES		CHECKED	DATE

New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

Auckland Vertical Datum 1946

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

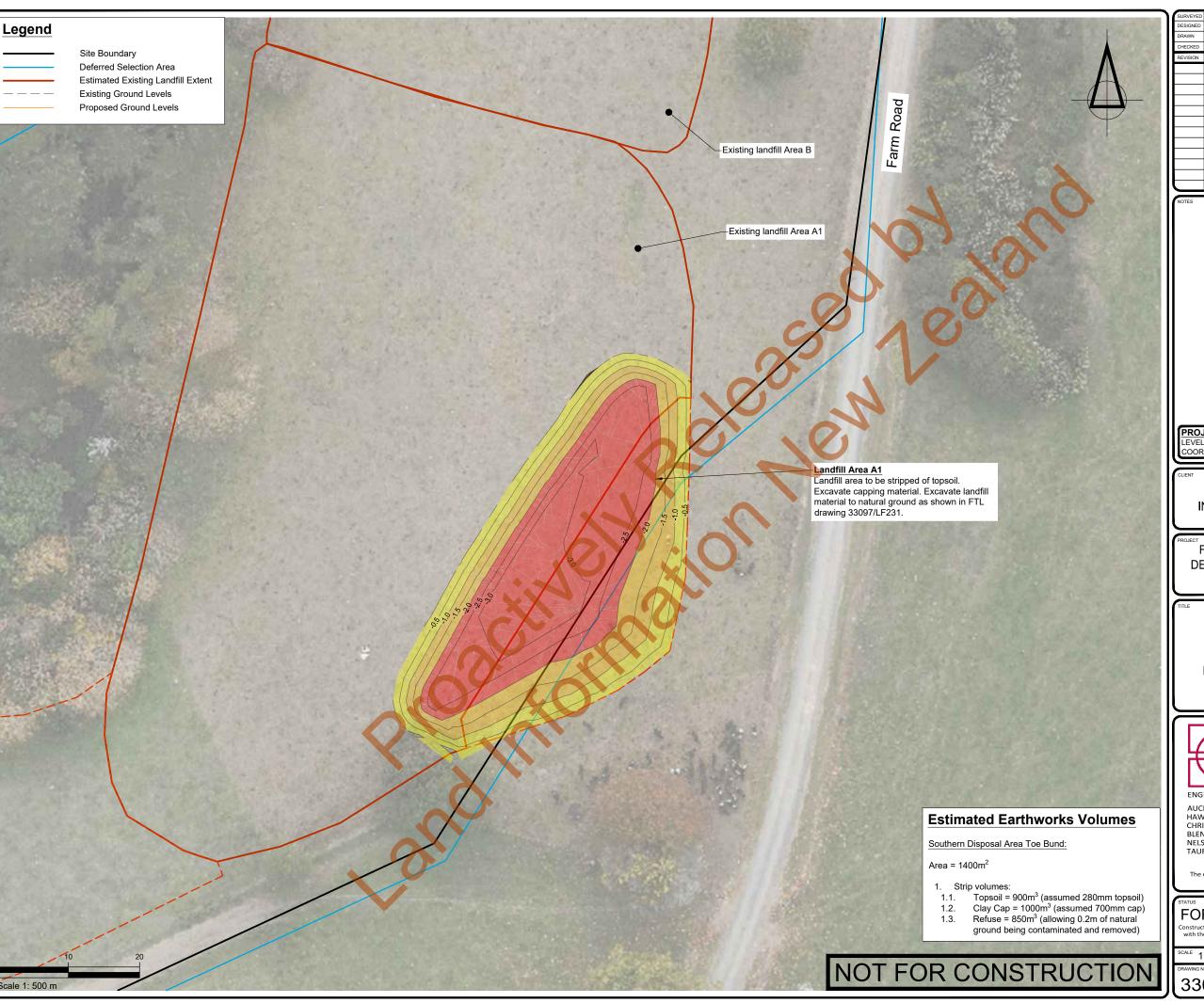
PROPOSED SOUTHERN DISPOSAL SITE CELL **CROSS SECTIONS SHEET 2** 



The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

1:200



DESIGNED	TB	20/11/24	SF	SE.	
DRAWN	TB	20/11/24		21/11/24	
CHECKED	SF	21/11/24	21/	11/24	
REVISION		CHANGES		CHECKED	DATE
			·		

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

> PROPOSED SOUTHERN DISPOSAL SITE CELL REFUSE EXCAVATION PLAN



## Fraser

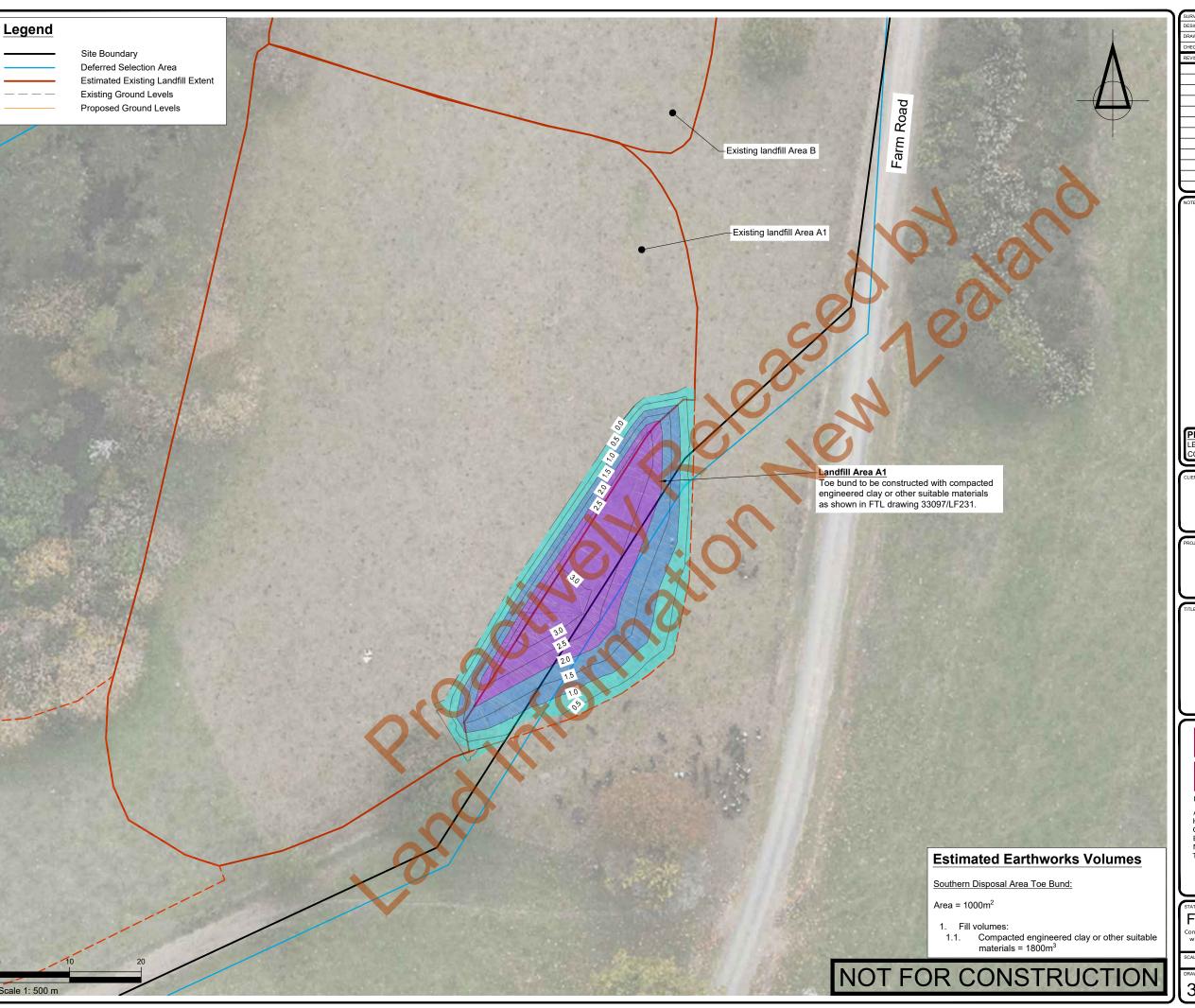
ENGINEERS • RESOURCE MANAGERS • SURVEYORS AUCKLAND.

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

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

1:500



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

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION **PROJECT** 

PROPOSED SOUTHERN DISPOSAL SITE CELL TOE BUND CONSTRUCTION PLAN



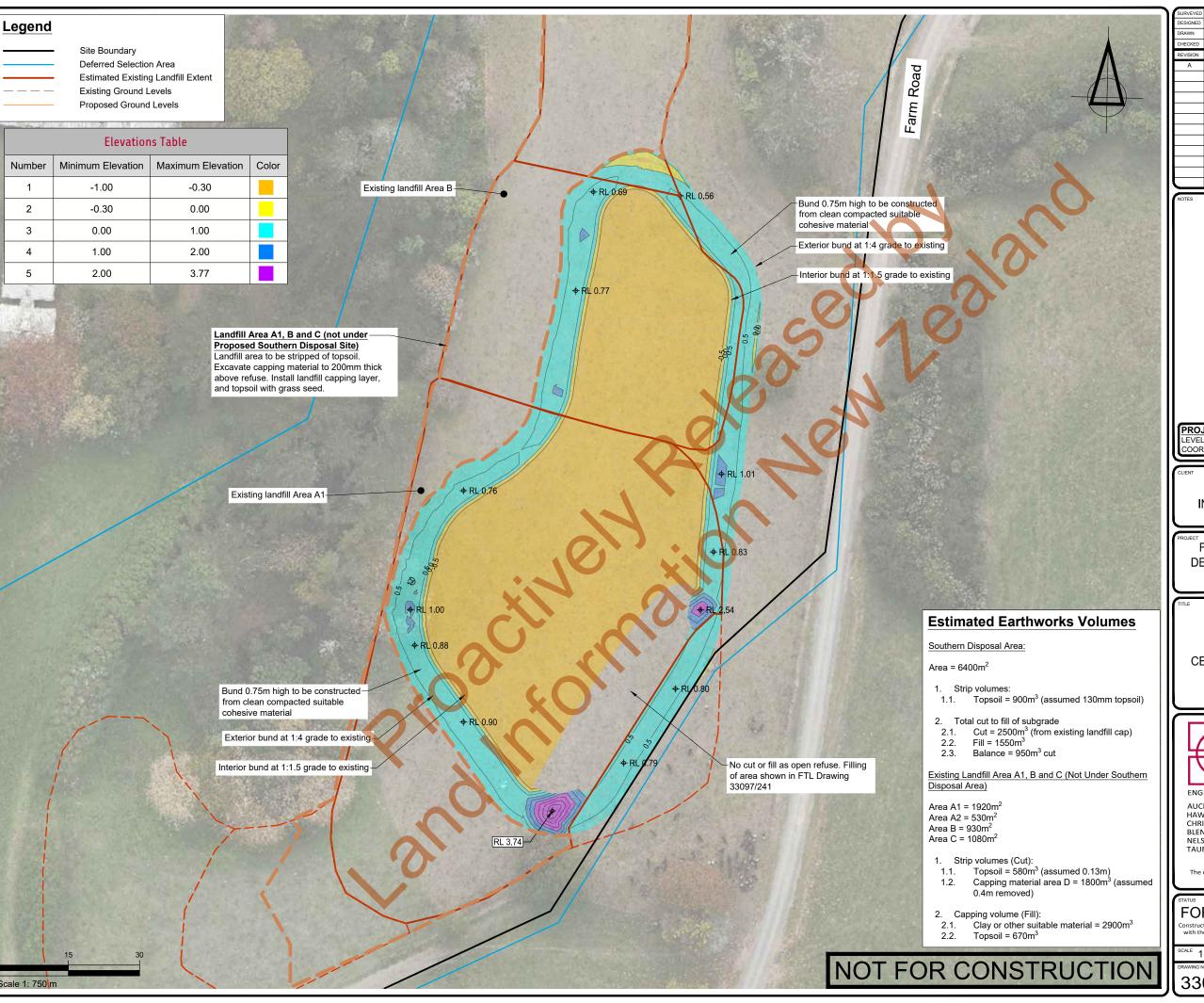
ENGINEERS • RESOURCE MANAGERS • SURVEYORS

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

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

1:500



DESIGNED	ТВ	14/08/24		SF 05/11/24	
DRAWN	ТВ	21/08/24			
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
Α	STH LF TOE	BUND ADDE	)	SF	20/11/24

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

PROPOSED SOUTHERN DISPOSAL SITE CELL CELL FORMATION CUT AND FILL PLAN

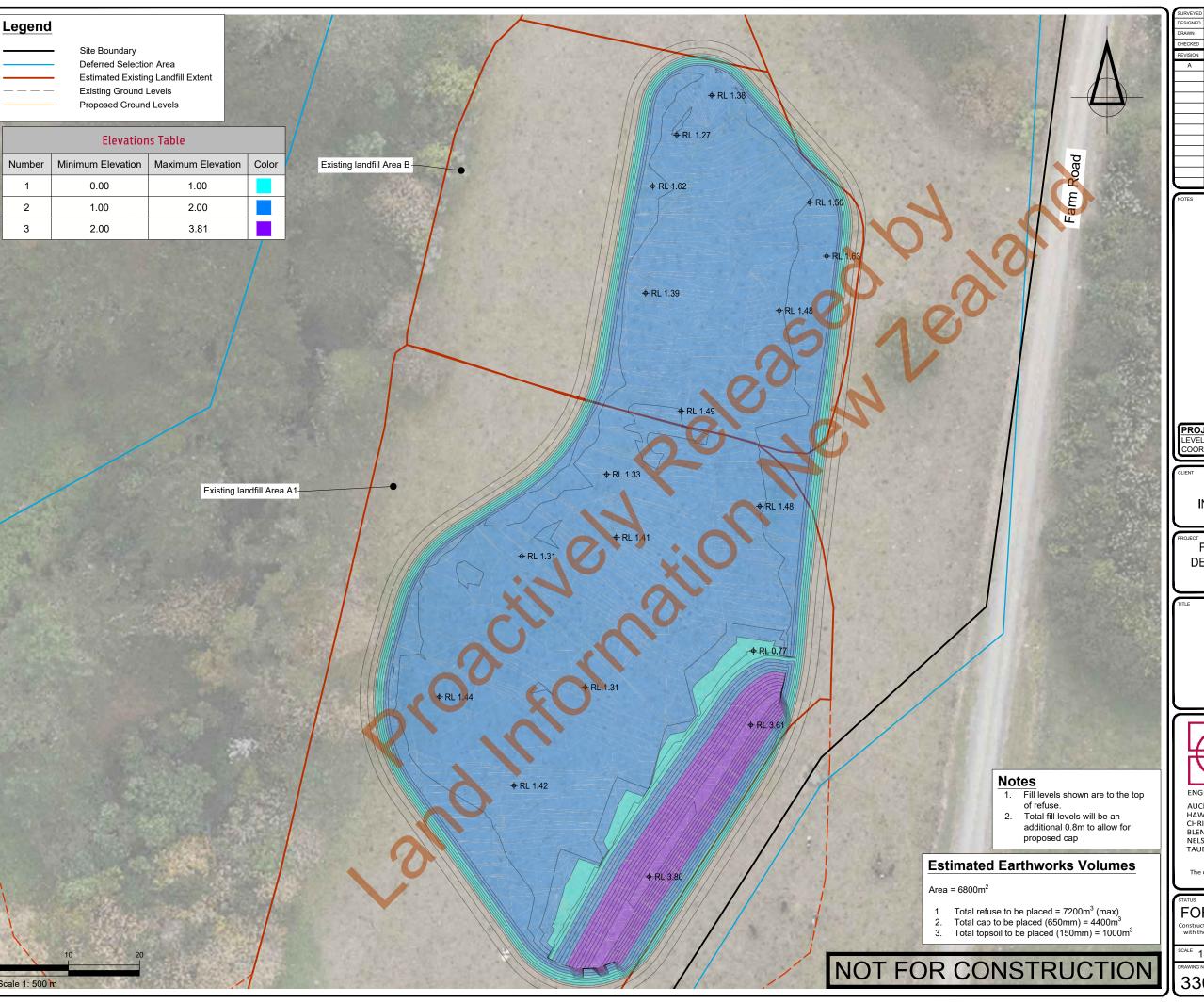


AUCKLAND. ..09 278 7078 HAWKE'S BAY CHRISTCHURCH .06 211 2766 .03 358 5936 03 428 3292 03 222 1132 BLENHEIM... NELSON. TAURANGA ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

1:500



DESIGNED	ТВ	14/08/24		SF 05/11/24	
DRAWN	TB	21/08/24			
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
Α	STH LF TOE	BUND ADDE	)	SF	20/11/24

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

> PROPOSED SOUTHERN DISPOSAL SITE CELL REFUSE FILLING PLAN



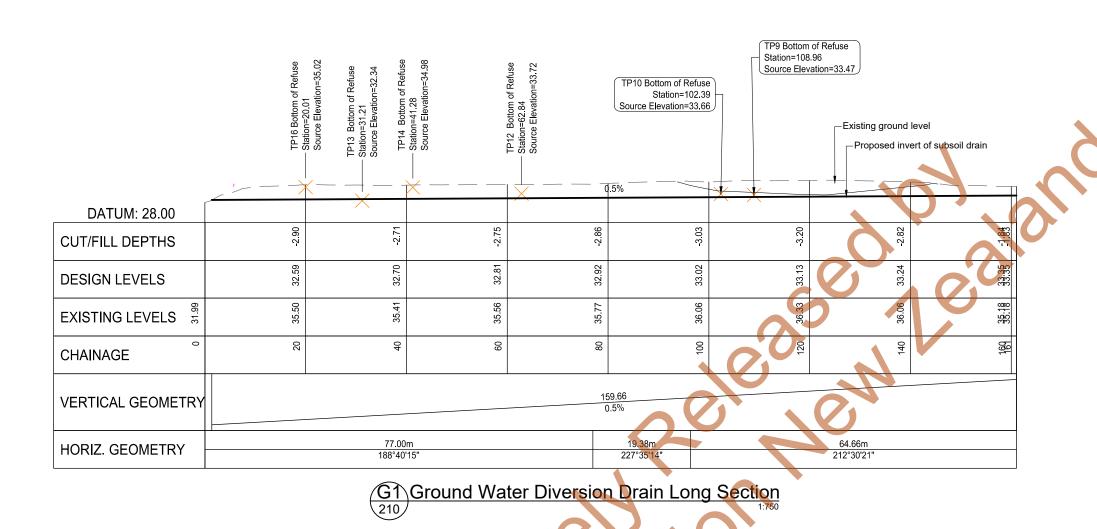
**ENGINEERS • RESOURCE MANAGERS • SURVEYORS** AUCKLAND. ..09 278 7078

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

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

1:500



600mm compacted clay capping material Where installed under toe bund, drainage material to extend to top of natural ground surface. Not to extend into toe bund. Install prior to SAP 7 Scoria or Drainage 20/7 Bidim A14 or similar 160mm Ø perforated smooth bore drain coil bedding layer

**Ground Water Diversion Drain Typical Detail** 

NOT FOR CONSTRUCTION

- 17	SURVEYED			APPROVED		DATE
	DESIGNED	TB	14/08/24		SF	
Ш	DRAWN	TB	21/08/24		וכ 11/24	
	CHECKED	SF	05/11/24	03/	11/24	
	REVISION		CHANGES		CHECKED	DATE
	Α	STH LF TOE	BUND ADDE	)	SF	20/11/24
- 14				·		

Auckland Vertical Datum 1946

New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

PROPOSED SOUTHERN DISPOSAL SITE CELL **GROUNDWATER DRAIN LONG** SECTION AND DETAIL



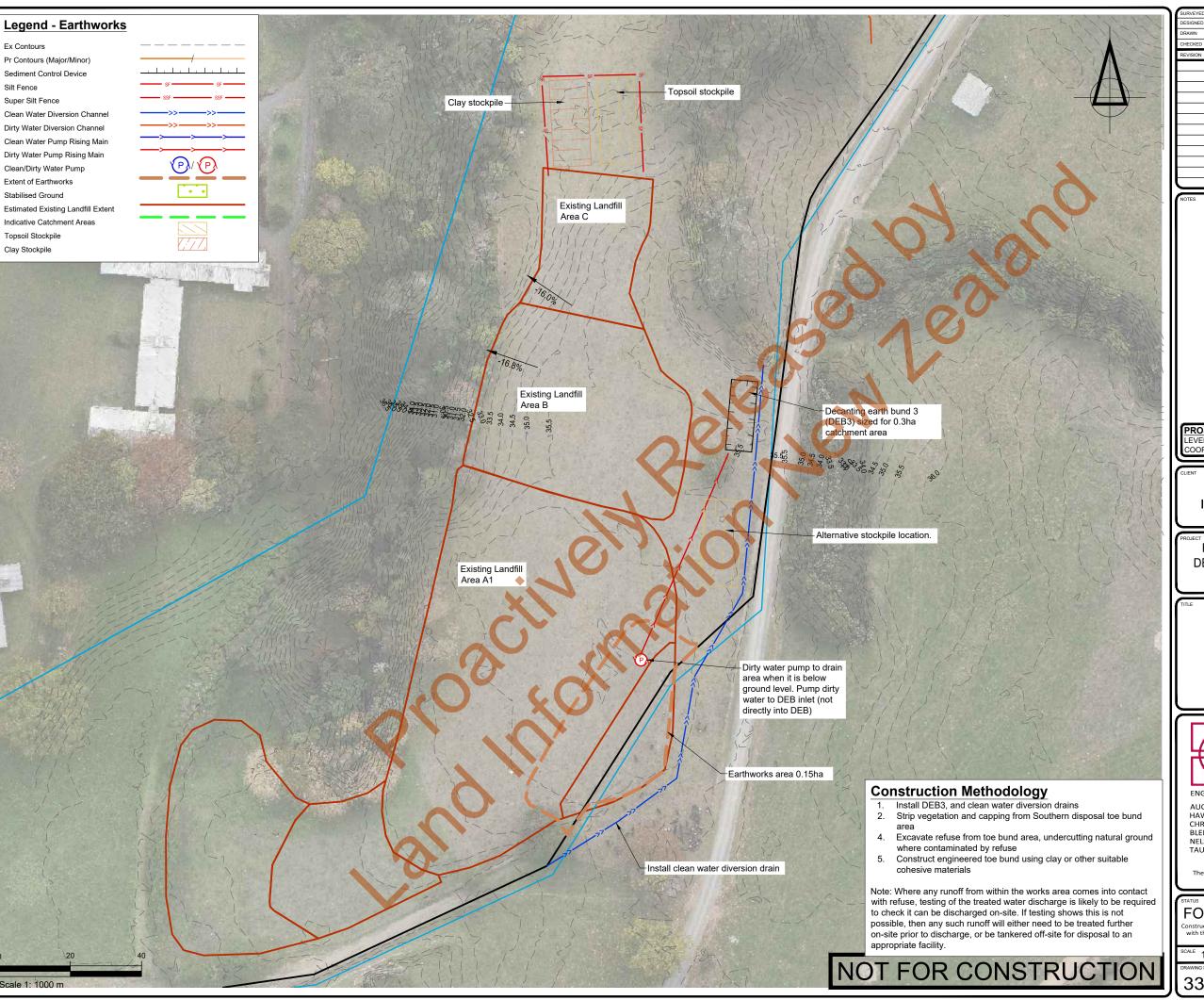
The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

AS SHOWN

33097/LF250

Scale 1: 750 m



20/11/24 21/11/24

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

> PROPOSED SOUTHERN DISPOSAL SITE CELL **EROSION AND SEDIMENT** CONTROL PLAN PHASE 0



## Fraser

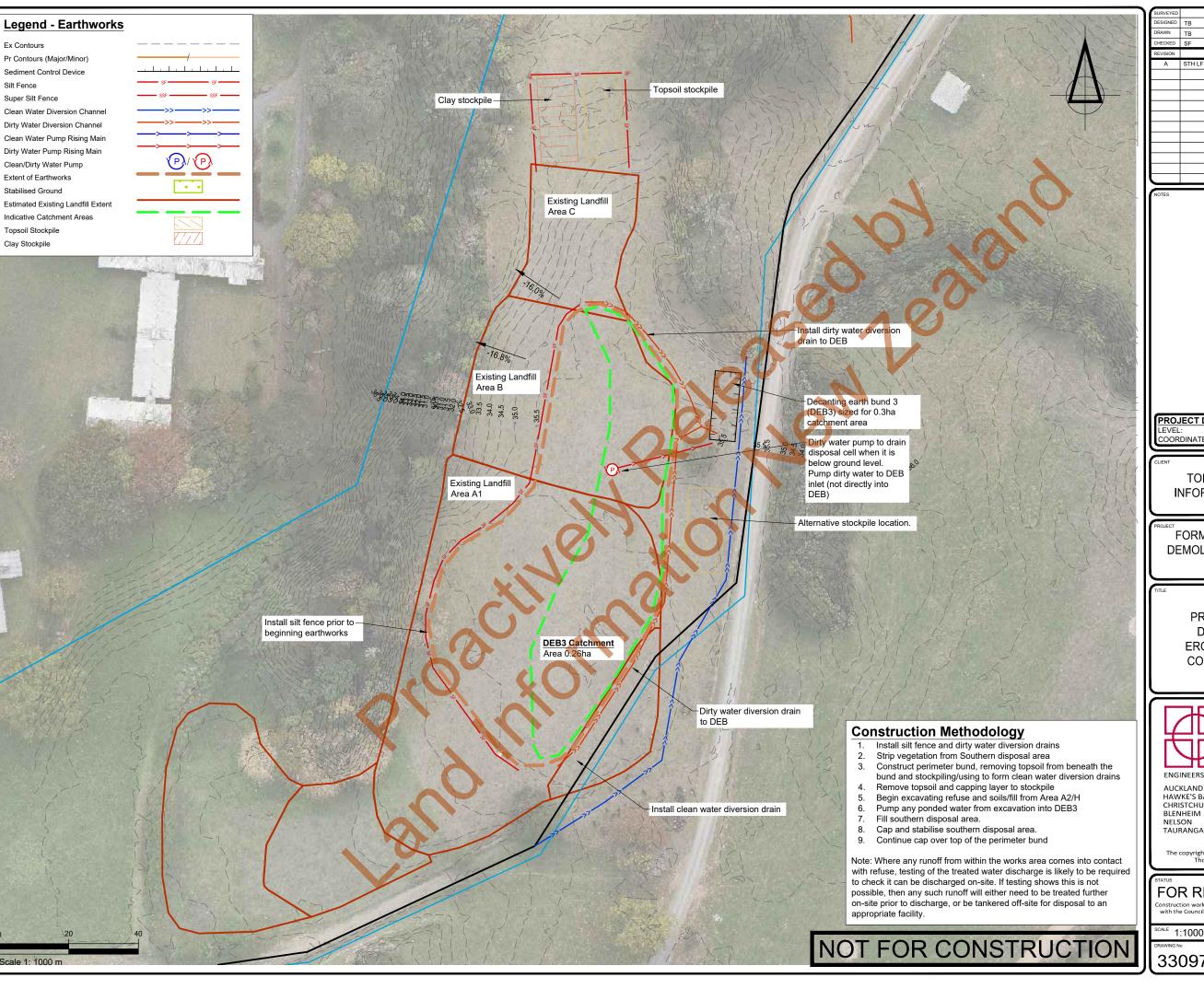
AUCKLAND	09 278 7078
HAWKE'S BAY	06 211 2766
CHRISTCHURCH	03 358 5936
BLENHEIM	03 428 3292
NELSON	03 222 1132
TAURANGA	07 220 9277

www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

1:1000



i	SURVEYED			APPROVED		DATE
Ш	DESIGNED	TB	14/08/24		SF	
Ш	DRAWN	TB	15/08/24		וכ 11/24	
Ш	CHECKED	SF	05/11/24	03/	11/24	
Ш	REVISION		CHANGES		CHECKED	DATE
Ш	Α	STH LF TOE	BUND ADDED	)	SF	20/11/24
Ш				-		
Ш						
Ш						
Ш						
Ш						
Ш						
Ш						
Ш						
Ш						
Ш						
П						

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

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



## Fraser

AUCKLAND.

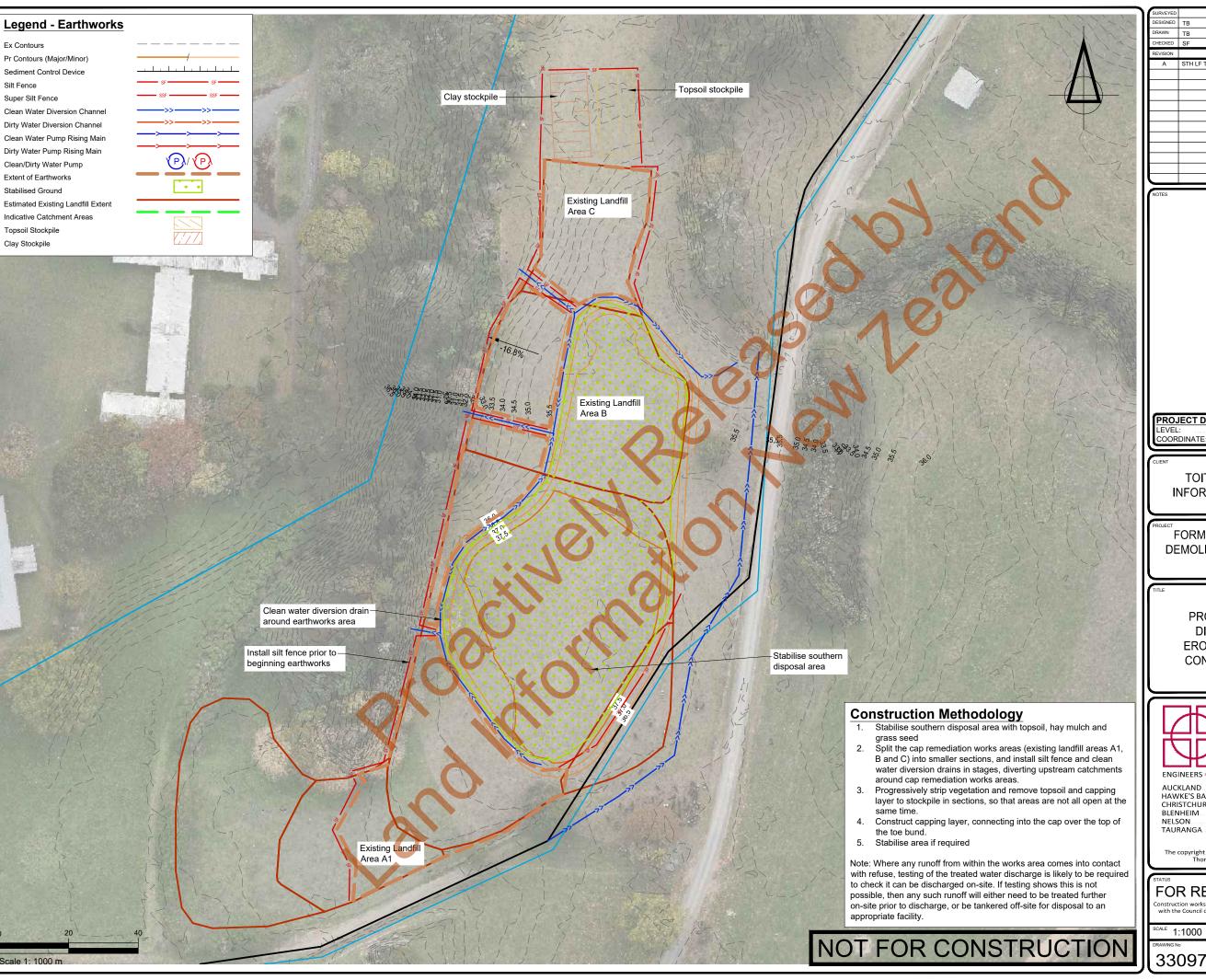
..09 278 7078 HAWKE'S BAY CHRISTCHURCH .06 211 2766 .03 358 5936 03 428 3292 03 222 1132

.07 220 9277 www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

1:1000



SURVEYED			APPROVED		DATE
DESIGNED	TB	14/08/24	9	SF	
DRAWN	TB	15/08/24		ار 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
Α	STH LF TOE	BUND ADDE	)	SF	20/11/24

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

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



## Fraser

AUCKLAND.

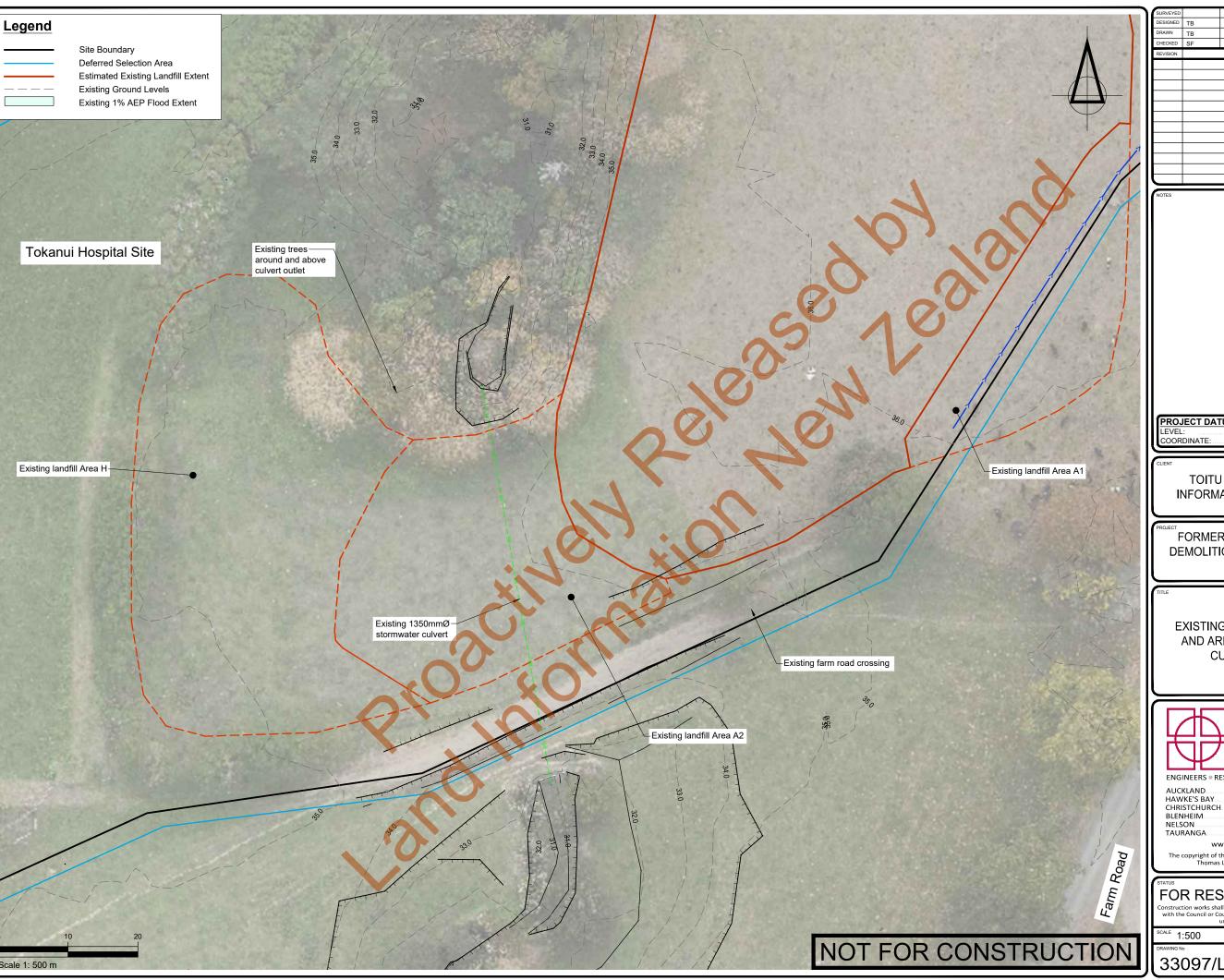
**ENGINEERS • RESOURCE MANAGERS • SURVEYORS** ..09 278 7078

HAWKE'S BAY CHRISTCHURCH .06 211 2766 .03 358 5936 03 428 3292 03 222 1132 BLENHEIM. ..07 220 9277

www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT



SF 05/11/24

PROJECT DATUMS:

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

EXISTING LANDFILL AREAS A2 AND AREA H, AND EXISTING **CULVERT 3 PLAN** 

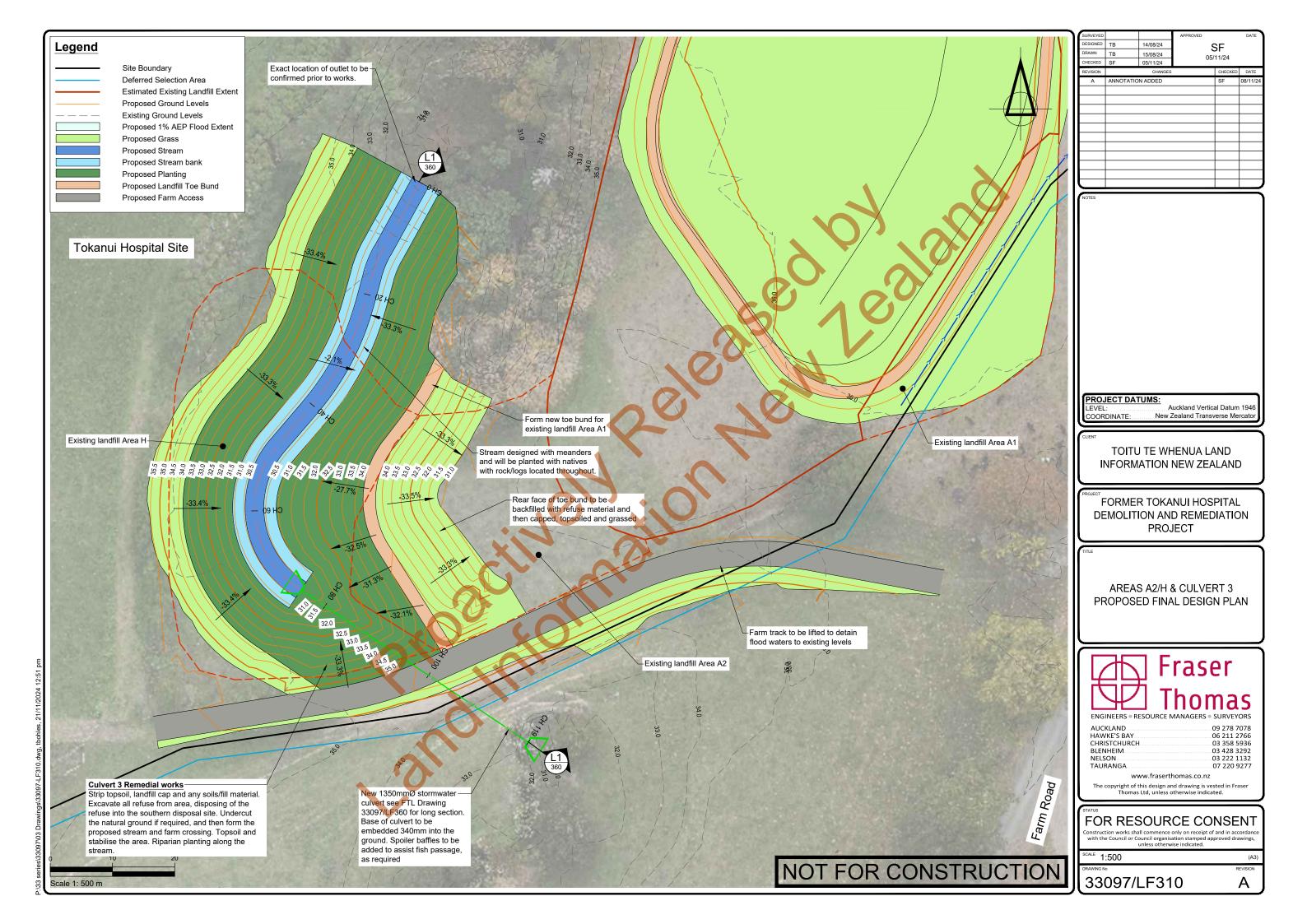


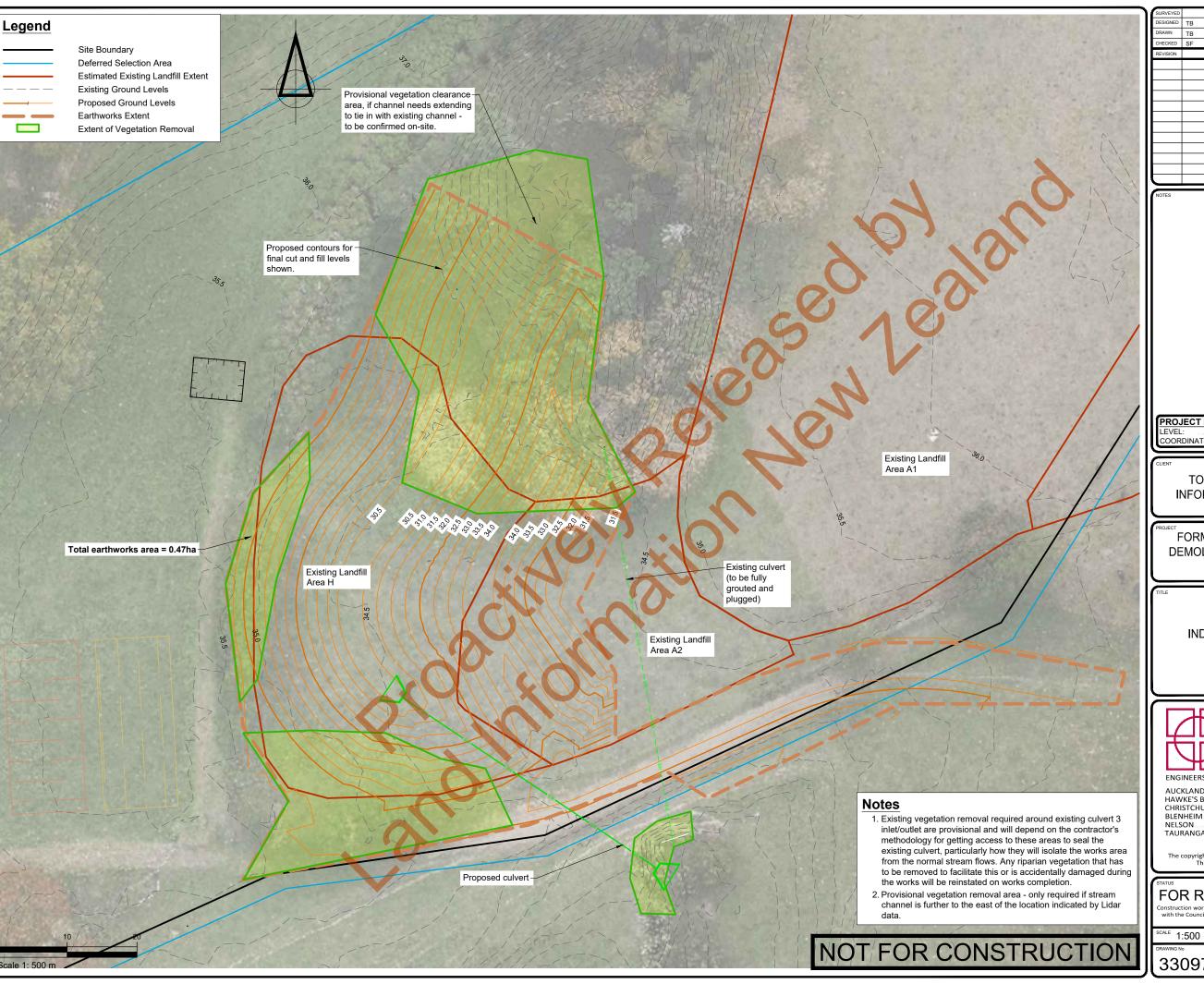
..09 278 7078 .06 211 2766 .03 358 5936

03 428 3292 03 222 1132 ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT





SURVETED			AFFROVED		DATE
DESIGNED	TB	14/08/24	9	SF	
DRAWN	TB	15/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
		Ť			, i
			-		

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

Auckland Vertical Datum 1946 New Zealand Transverse Merca

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

> INDICATIVE VEGETATION REMOVAL PLAN



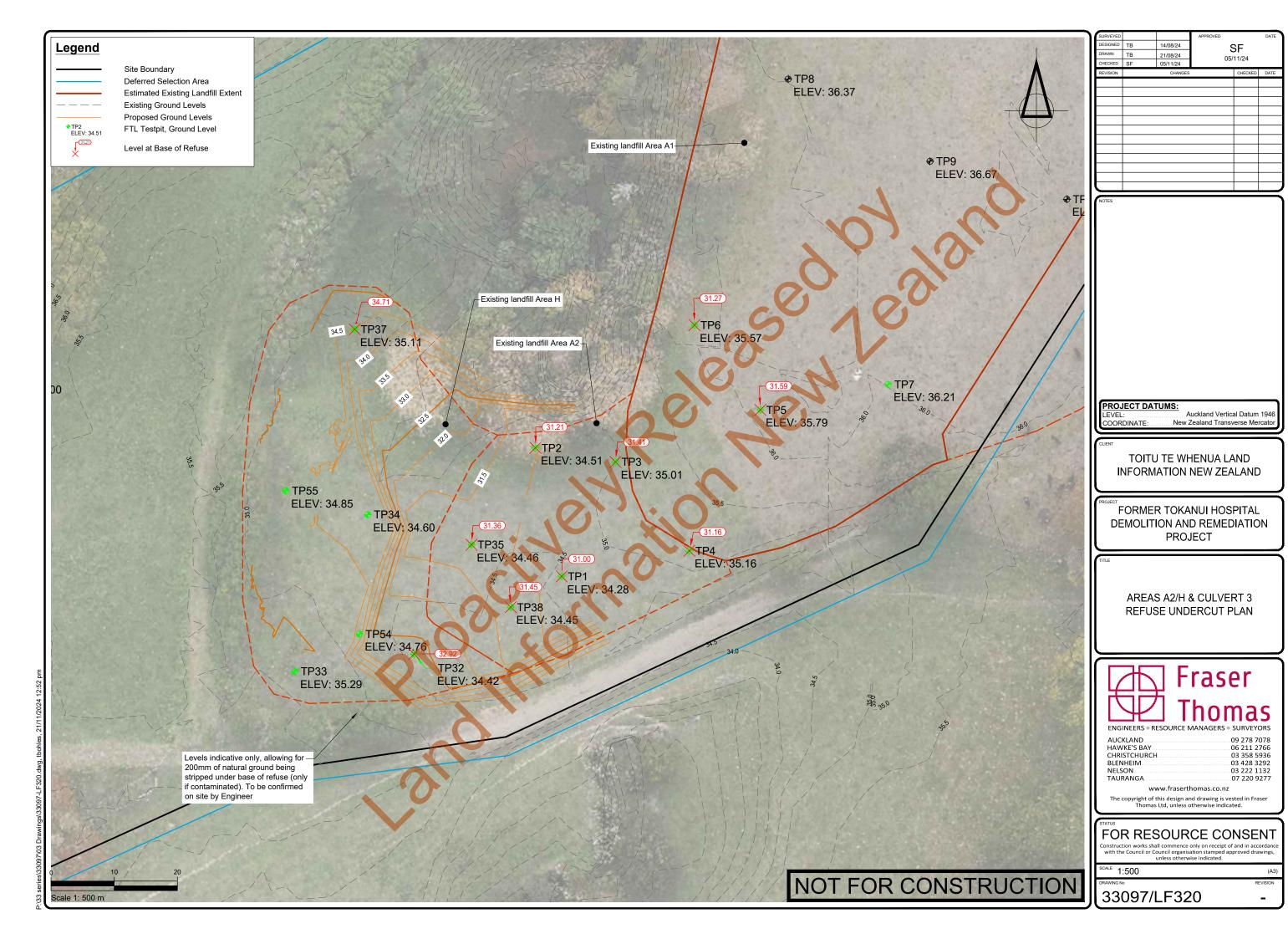
### Fraser Thomas

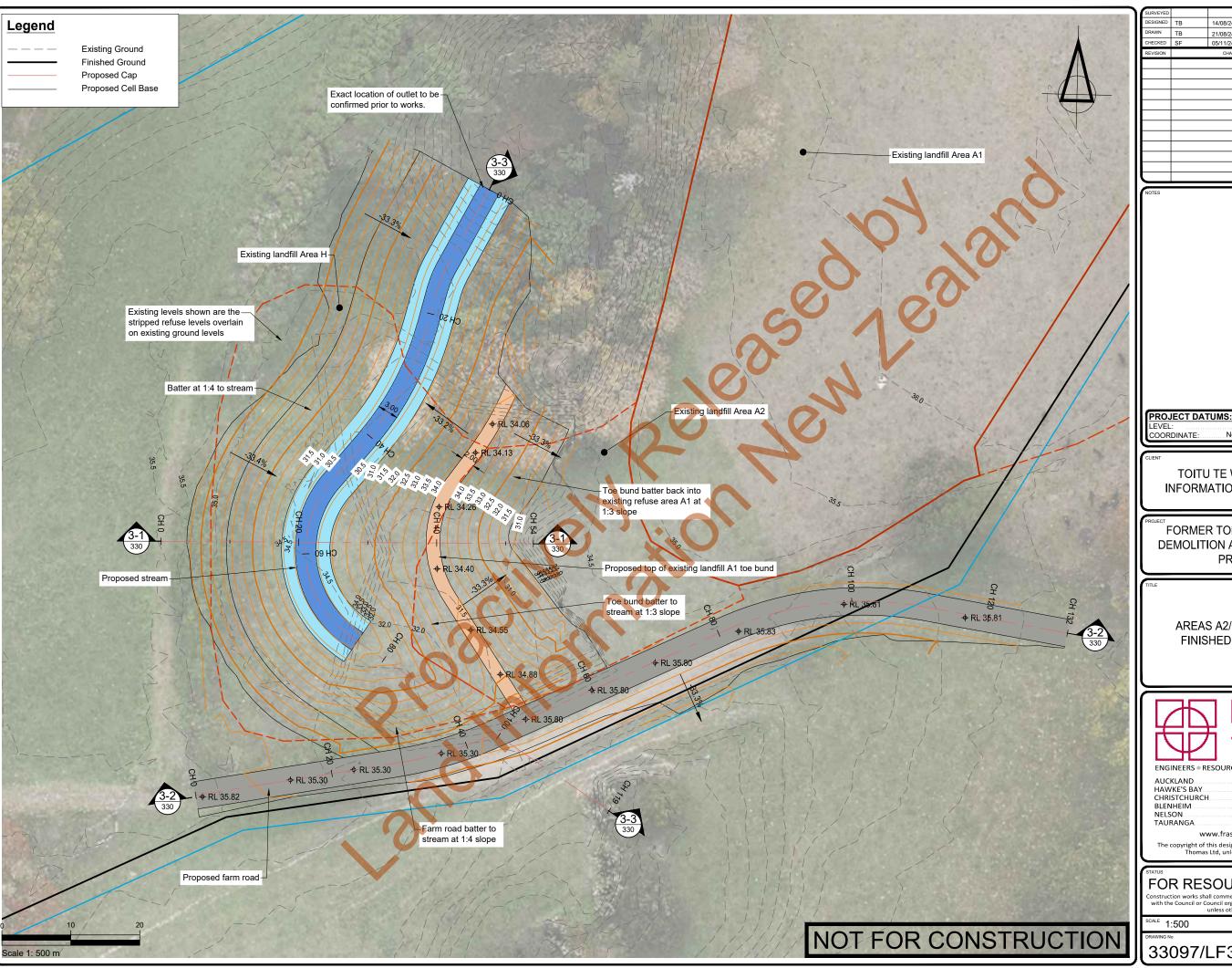
09 278 7078
06 211 2766
03 358 5936
03 428 3292
03 222 1132
07 220 9277

www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT





14/08/24 SF 21/08/24 05/11/24

New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

Auckland Vertical Datum 1946

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

> AREAS A2/H & CULVERT 3 FINISHED LEVELS PLAN

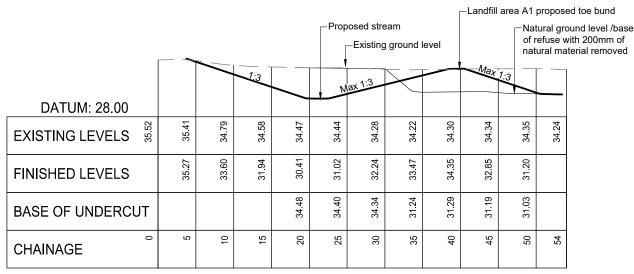


..09 278 7078

.06 211 2766 .03 358 5936 03 428 3292 03 222 1132 ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT



I	FINISH	HED	LEVEL	_S	35.27	33.60	31.94	30.41	31.02	32.24	33.47	34.35	32.85	31.20												X	
I	BASE	OF L	JNDEF	RCUT				34.48	34.40	34.34	31.24	31.29	31.19	31.03						•							•
(	CHAIN	IAGE	<b>=</b>	0	S	10	15	20	25	30	35	40	45	20	54						1	)		9		•	
						1			(	<b>3-1</b> (321)	Cros	s Se	ectio	1:500				C	2		1	C	?				
			-4.0%		ſ	.0%		0.0%		5.4%				Finished	ground l			<u>ک</u>	Existing	g ground l	level 0.0%				0.0%		
DATUM: 32.00						-										+	3			N							
CUT/FILL DEPTHS	0.23	0.22	0.09	0.11	0.28	0.33	0.62	69.0	0.80	1.29	1.69	1.66	1.63	1.58	1.67	1.56	1.50	1.40	129	1.19	1.17	0.95	0.87	0.68	0.51	0:30	0.08
DESIGN LEVELS	35.85	35.65	35.46	35.30	35.30	35.30	35.30	35.30	35.36	35,63	35.80	35,80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80
EXISTING LEVELS	35.62	35.43	35.36	35.19	35.02	34.97	34.68	34.61	34.56	34.34	34.11	34.14	34.17	34.22	34.13	34.24	34.30	34.40	34.51	34.61	34.63	34.85	34.93	35.12	35.29	35.50	35.72
CHAINAGE	0	2	10	15	50	25	30	35	40	45	20	55	09	65	02	75	80	85	06	95	100	105	110	115	120	125	130

	Existin		roposed sound leve			of refuse	ground le with 200 material r				<b>S</b>									1:3-	 Proposed	farm road
		- 1							*						_							`
DATUM: 28.00																						<u></u>
EXISTING LEVELS	30.82	32.40	34.08	34.63	34.73	34.51	34.53	34.33	34.30	34.42	34.40	34.42	34,51	34.58	34.58							
FINISHED LEVELS		30.11	30.14	30.17	30.19	30.22	30.24	30.27	30.30	30.32	30.35	30.37	30,40	30.43	30.45							
BASE OF UNDERCUT	-					34.24	33.13	32.96	32.86	33.43	34.43	34.45	34,49	34.58	34.58	33.05	32.41	32.51	32.23	32.47		
CHAINAGE	0	5	10	15	20	25	30	35	40	45	20	55	09	65	69							

3-3 Cross Section 3-3

NOT FOR CONSTRUCTION

SURVEYED			APPROVED		DATE
DESIGNED	ТВ	14/08/24		SF	
DRAWN	ТВ	21/08/24		اد /11/24	
CHECKED	SF	05/11/24	03	/11/24	
REVISION		CHANGES		CHECKED	DATE
			-		
			·		

PROJECT DATUMS: Auckland Vertical Datum 1946 New Zealand Transverse Merca

> TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

AREAS A2/H & CULVERT 3 **CROSS SECTION PLAN 1** 

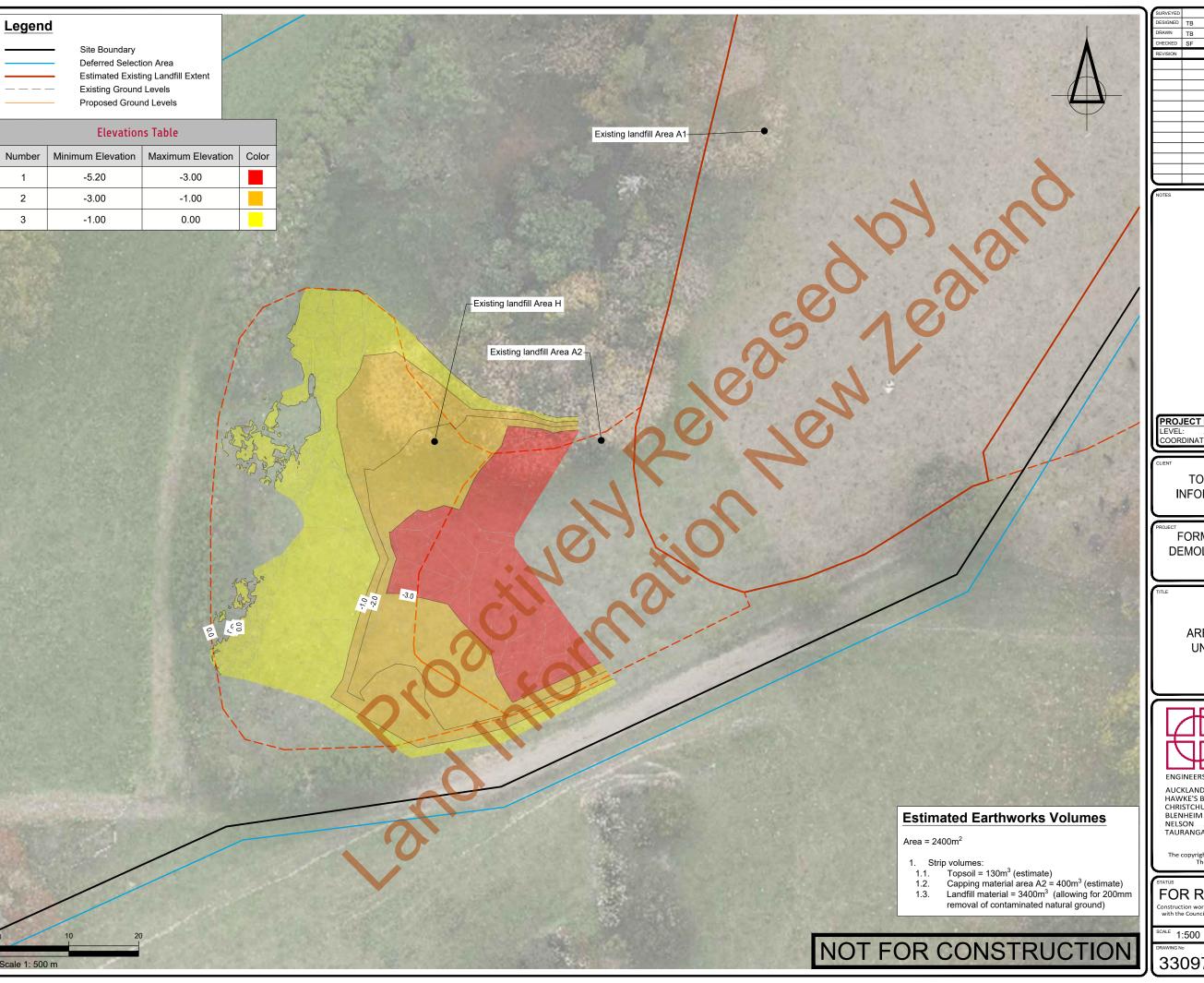


FOR RESOURCE CONSENT Construction works shall commence only on receipt of and in accordanc with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

1:500

33097/LF330

Scale 1: 500 m



DESIGNED	TB	14/08/24		SF	
DRAWN	TB	21/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE

Auckland Vertical Datum 1946 New Zealand Transverse Merc

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

> AREAS A2/H & CULVERT 3 UNDERCUT STRIP PLAN



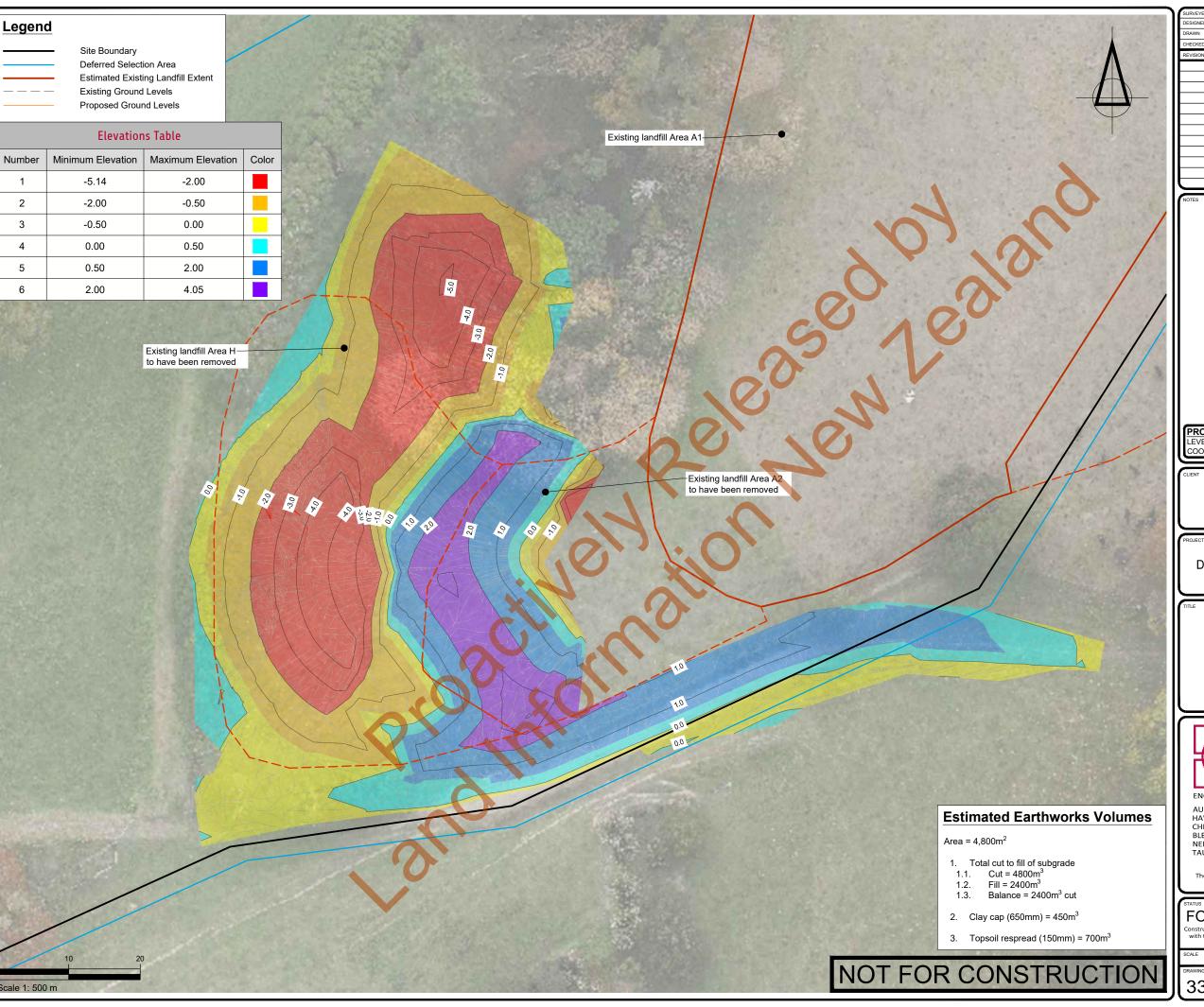
## Fraser

..09 278 7078

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

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT



DESIGNED	TB	14/08/24		SF.	
DRAWN	TB	21/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
			-		
		Ť			
			-		

COORDINATE:...

Auckland Vertical Datum 1946
New Zealand Transverse Mercator

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION PROJECT

AREAS A2/H & CULVERT 3 FINAL LEVELS CUT AND FILL PLAN



#### Fraser Thomas

ENGINEERS • RESOURCE MANAGERS • SURVEYORS

AUCKLAND HAWKE'S BAY	
CHRISTCHURCH	03 358 5936
BLENHEIM	
NELSON	
TAURANGA	07 220 9277

www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

#### FOR RESOURCE CONSENT

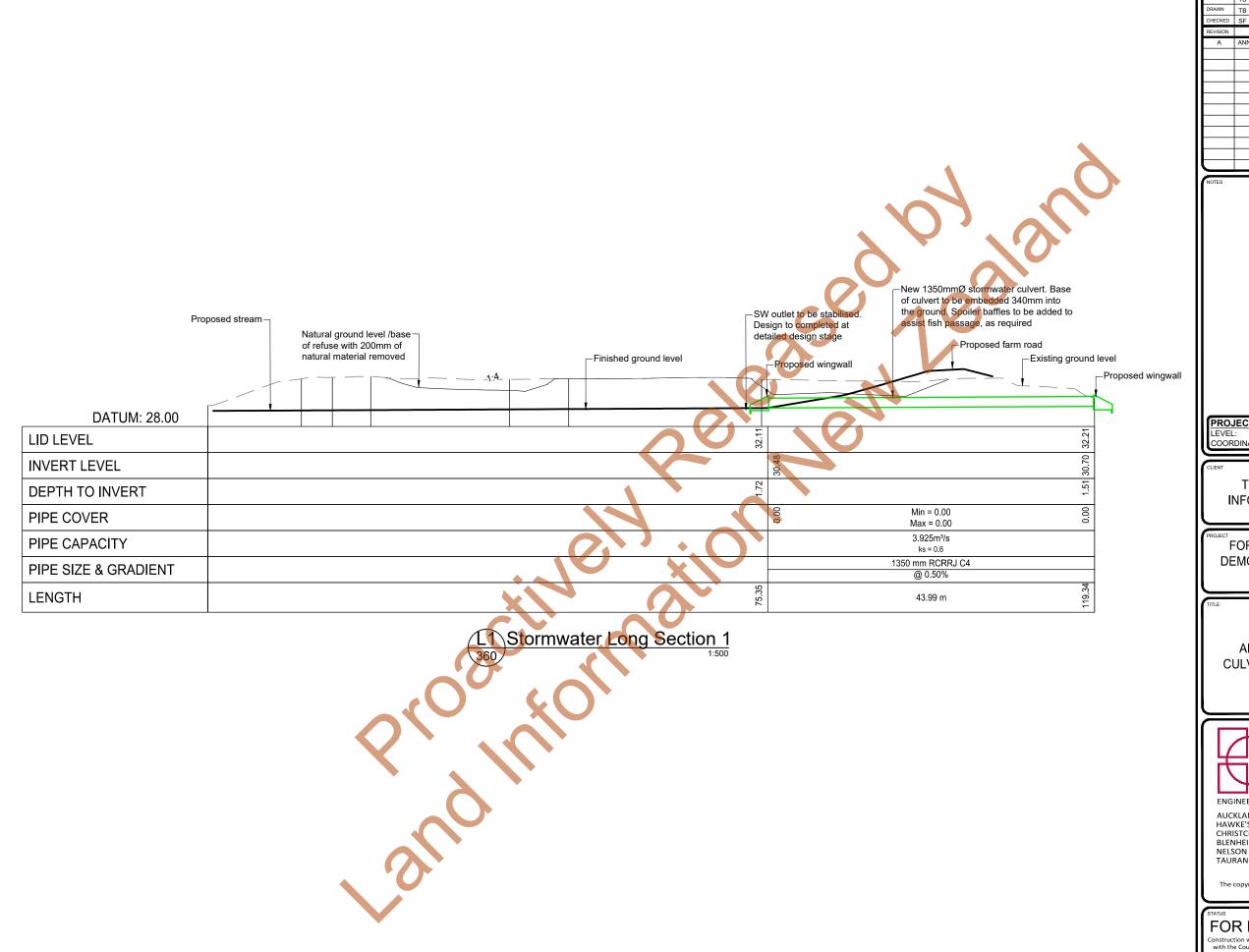
unless otherwise indicated.

iCALE 1:500

AWING No

33097/LF341

\_



PROJECT DATUMS:

VEL: Auckland Vertical Datum 1946 DORDINATE: New Zealand Transverse Mercator

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION PROJECT

AREAS A2/H & CULVERT 3
CULVERT LONG SECTION PLAN



## Fraser Thomas

AUCKLAND 09 278 7078
HAWKE'S BAY 06 211 2766

 HAWKE'S BAY
 06 211 2766

 CHRISTCHURCH
 03 358 5936

 BLENHEIM
 03 428 3292

 NELSON
 03 222 1132

 TAURANGA
 07 220 9277

www.fraserthomas.co.nz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT

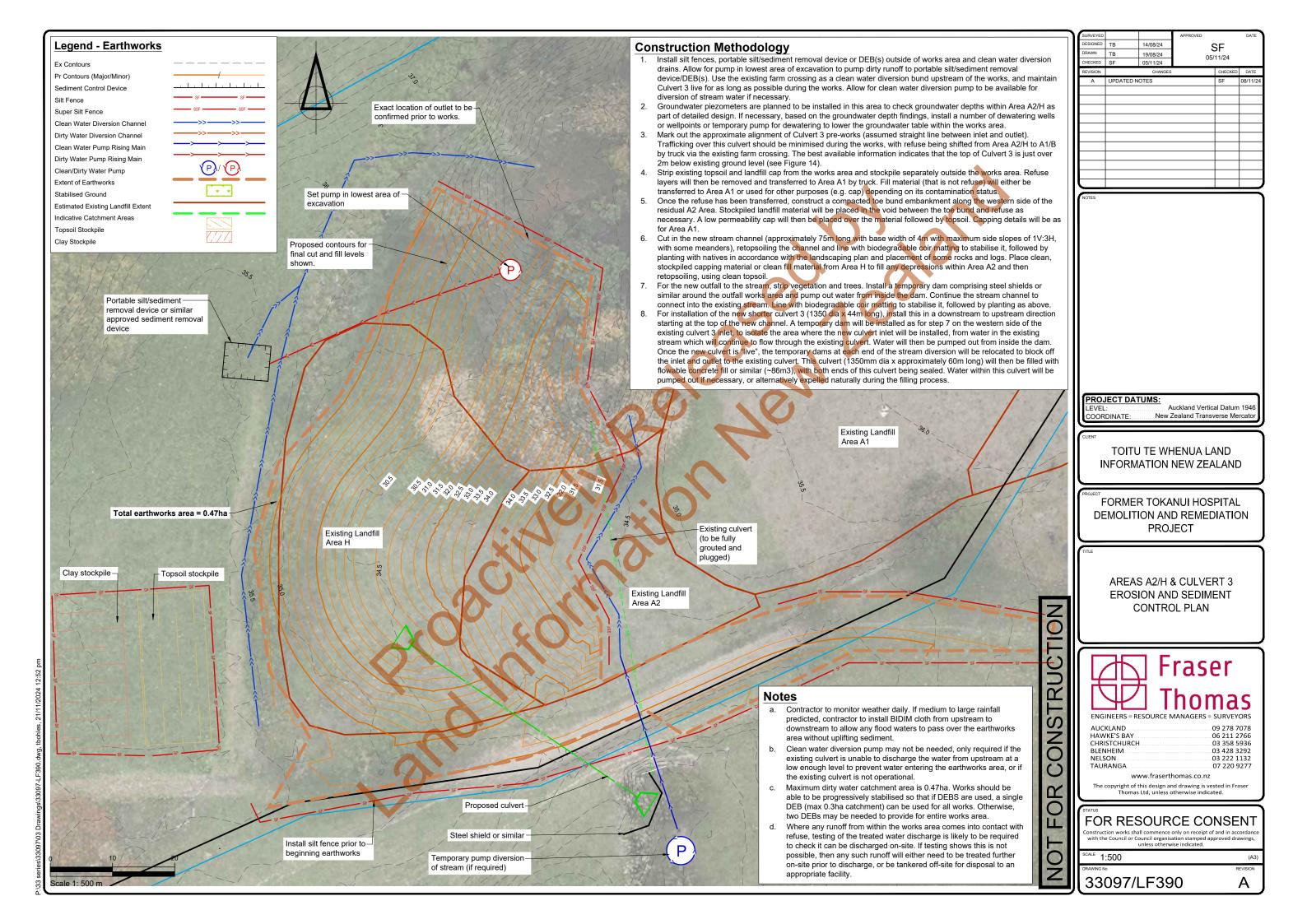
SCALE 1:500

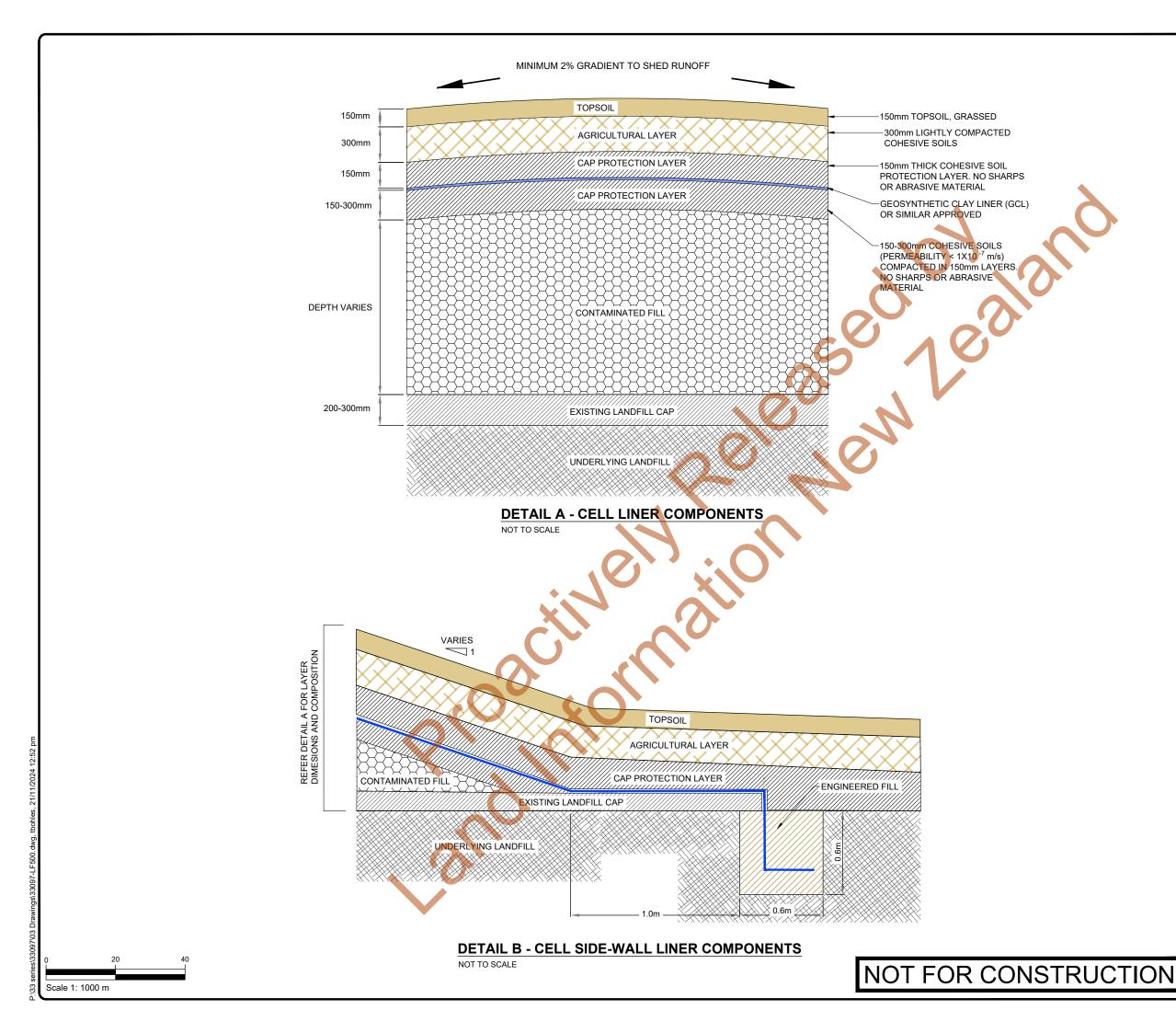
AWING No

33097/LF360

A

NOT FOR CONSTRUCTION





Non

PROJECT DATUMS:

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

CLIE

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

1111

PROPOSED LANDFILL CELL TYPICAL DETAIL



NELSON 03 222 1132
TAURANGA 07 220 9277

www.fraserthomas.co.pz

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT
Construction works shall commence only on receipt of and in accordance

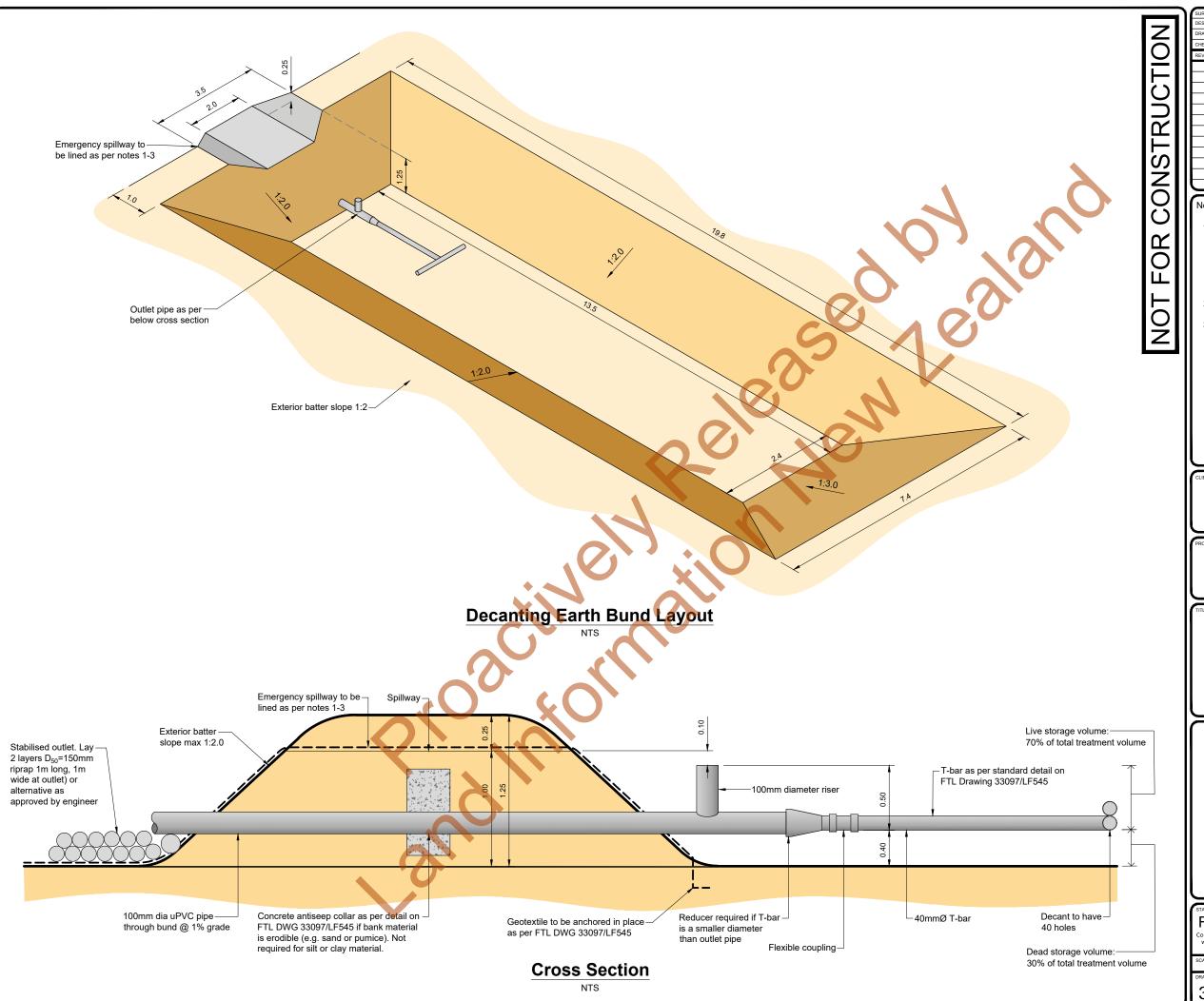
unless otherwise indicated.

SCALE NTS

WING No

33097/LF500

REVISION



SURVEYED			APPROVED		DATE
DESIGNED	TB	14/08/24		SF	
DRAWN	TB	20/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE

- Emergency spillway lined with strong woven low permeability geotextile (Bidim A14 or Duraforce AS240 or approved equivalent) overlaid with soft non-woven needle punched geotextile (Tencate Mirafi HP 280a, Duraforce WG30/30 or approved equivalent).
- Emergency spillway to be secured with pins every 0.5m,
- If the emergency spillway embankment is constructed with sand, pumice or other erodable 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.

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

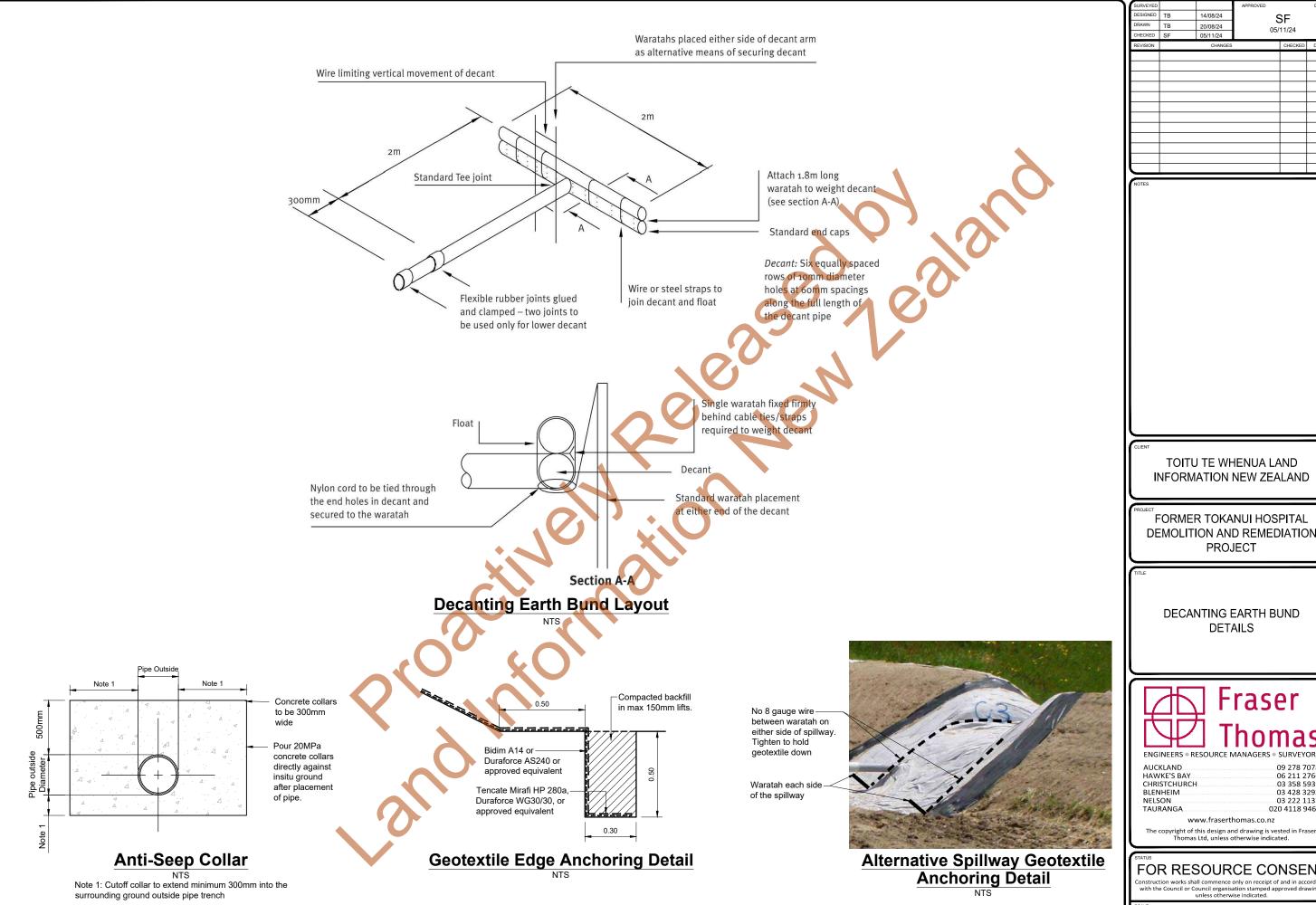
**DECANTING EARTH BUND DIMENSIONS PLAN** 



The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

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

CALE NTS



14/08/24 SF 20/08/24 05/11/24

> TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

**DECANTING EARTH BUND DETAILS** 

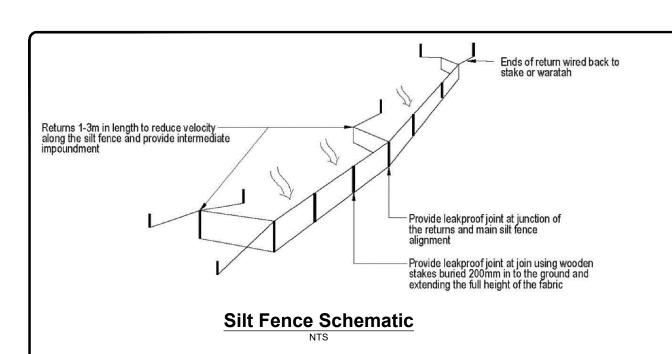


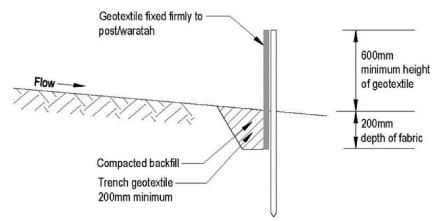
FOR RESOURCE CONSENT

NTS

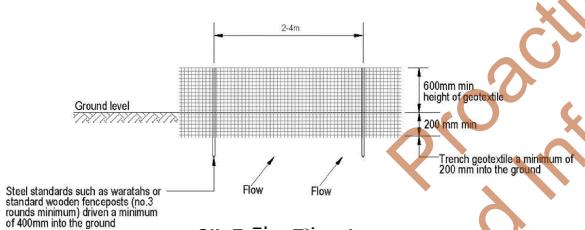
33097/LF545

NOT FOR CONSTRUCTION





#### **Silt Fence Cross Section**

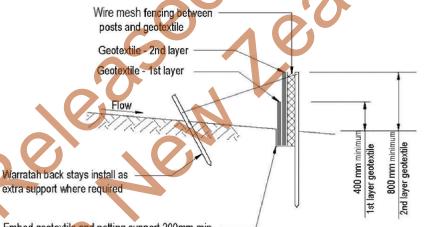


#### Silt Fence Elevation

SI	LT FENCE [	DESIGN CRITE	RIA
Slope %	Slope Length (m)	Spacing of Returns (m)	Length (m)
<2%	Unlimited	N/A	Unlimited
2-10%	40	60	300
10-20%	30	50	230
20-33%	20	40	150
33-50%	15	30	75
>50%	6	20	40

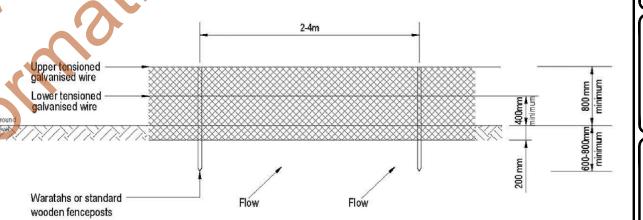
# Staple Section B Section A Staple Staple Staple Staple

#### Silt Fence Standard Fabric Join



Embed geotextile and netting support 200mm min. — into ground (cover with suitable backfill and compact)

#### Super Silt Fence Cross Section



#### **Super Silt Fence Elevation**

SUPE	R SILT FEN	CE DESIGN CR	ITERIA
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

SURVEYED			APPROVED		DATE
DESIGNED	TB	14/08/24		SF	
DRAWN	ТВ	20/08/24		וכ 11/24	
CHECKED	SF	05/11/24	03/	11/24	
REVISION		CHANGES		CHECKED	DATE
			-		
			·		

ONSTRUCTION

Ŏ

FOR

. 2

PROJECT DATUMS:

VEL: Auckland Vertical Datum 1946
OORDINATE: New Zealand Transverse Mercator

CLIENT

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

EROSION AND SEDIMENT CONTROL DETAILS PAGE 1

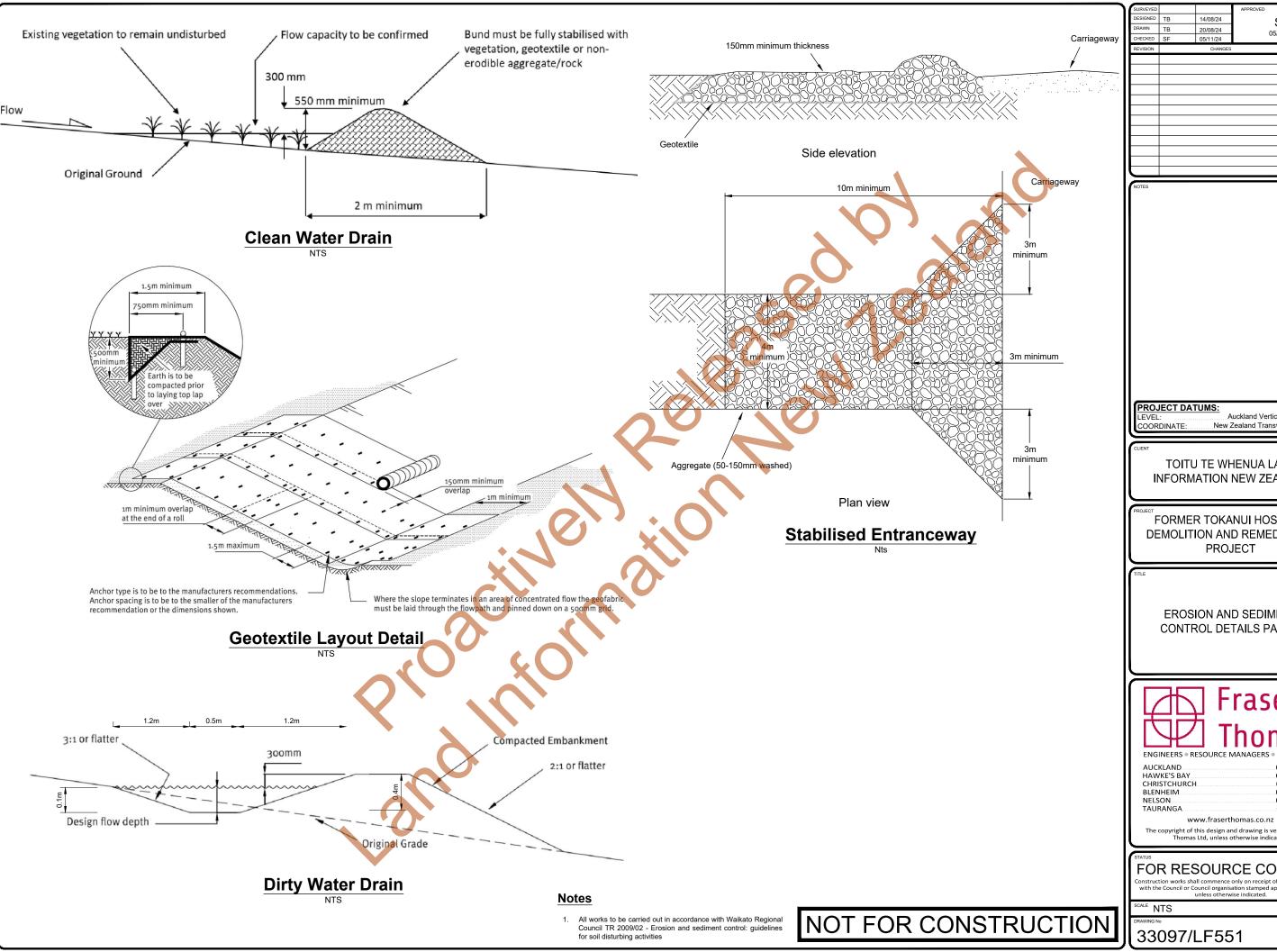


The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

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 NTS (A3)

33097/LF550



SF 20/08/24 05/11/24

Auckland Vertical Datum 1946 New Zealand Transverse Merca

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

FORMER TOKANUI HOSPITAL **DEMOLITION AND REMEDIATION PROJECT** 

**EROSION AND SEDIMENT** CONTROL DETAILS PAGE 2



..09 278 7078

.06 211 2766 .03 358 5936 03 428 3292 03 222 1132 ..07 220 9277

The copyright of this design and drawing is vested in Fraser Thomas Ltd, unless otherwise indicated.

FOR RESOURCE CONSENT