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  7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

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	EX BDY
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	EX MAJOR CONTOUR
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	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
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	STAGE BOUNDARY
	EXISTING STREAM
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	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
		By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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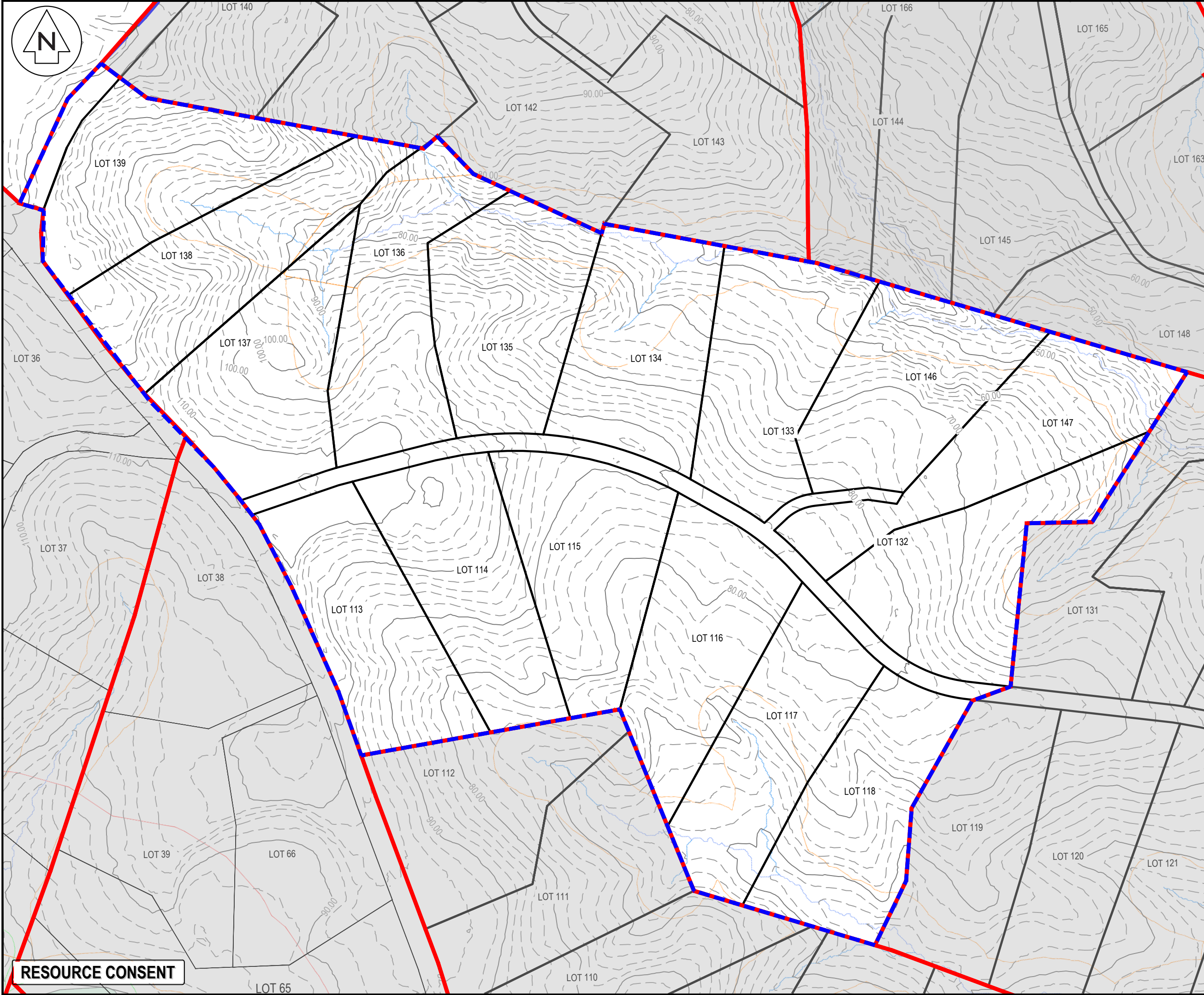
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOO PUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
EARTHWORKS  
OVERVIEW - STAGE 8**

Project no.	147007
Scale	1:10,000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 8.DWG
Drawing no.	C200-8-0
Rev	<b>A</b>

RESOURCE CONSENT





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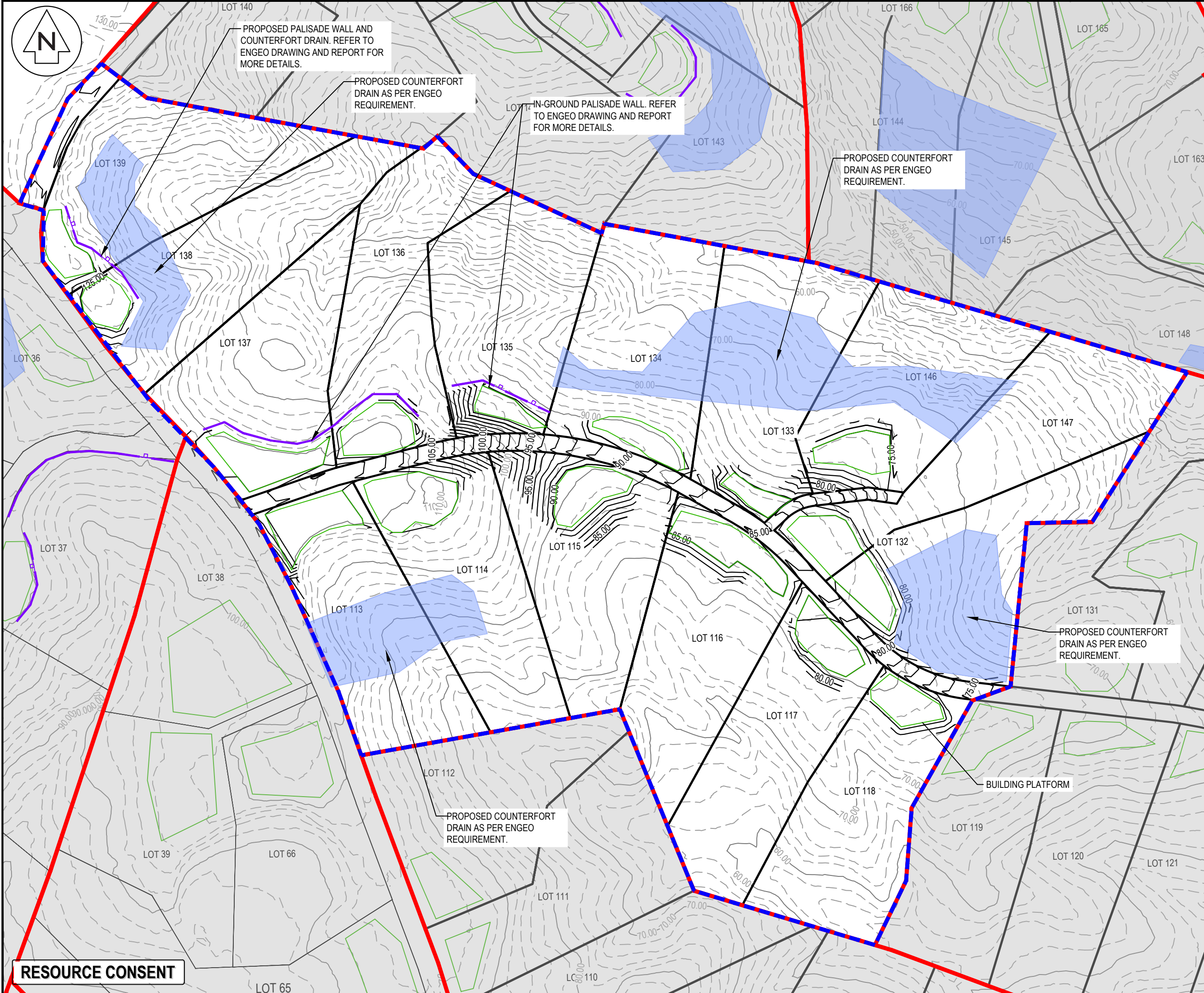
Title

**EXISTING CONTOUR  
PLAN - STAGE 8**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 8.DWG		
Drawing no.	C200-8-1	Rev	<b>A</b>

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 8.DWG





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**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title

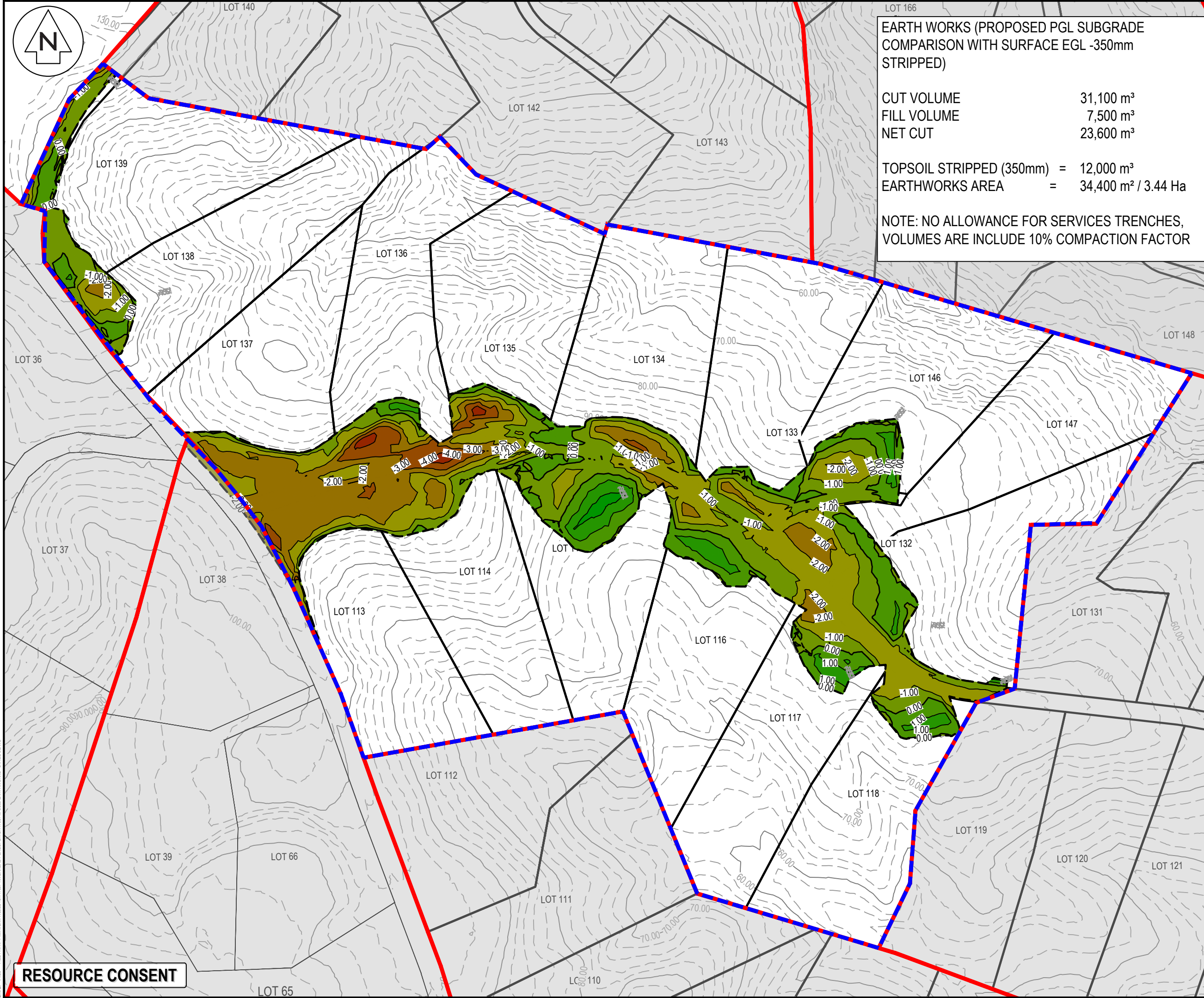
**PROPOSED EARTHWORKS CONTOUR PLAN - STAGE 8**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 8.DWG		
Drawing no.	C200-8-2	Rev	<b>A</b>

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RESOURCE CONSENT





EARTH WORKS (PROPOSED PGL SUBGRADE  
COMPARISON WITH SURFACE EGL -350mm  
STRIPPED)

CUT VOLUME 31,100 m³  
FILL VOLUME 7,500 m³  
NET CUT 23,600 m³

TOPSOIL STRIPPED (350mm) = 12,000 m³  
EARTHWORKS AREA = 34,400 m² / 3.44 Ha

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,  
VOLUMES ARE INCLUDE 10% COMPACTION FACTOR

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8	2.000	3.000	

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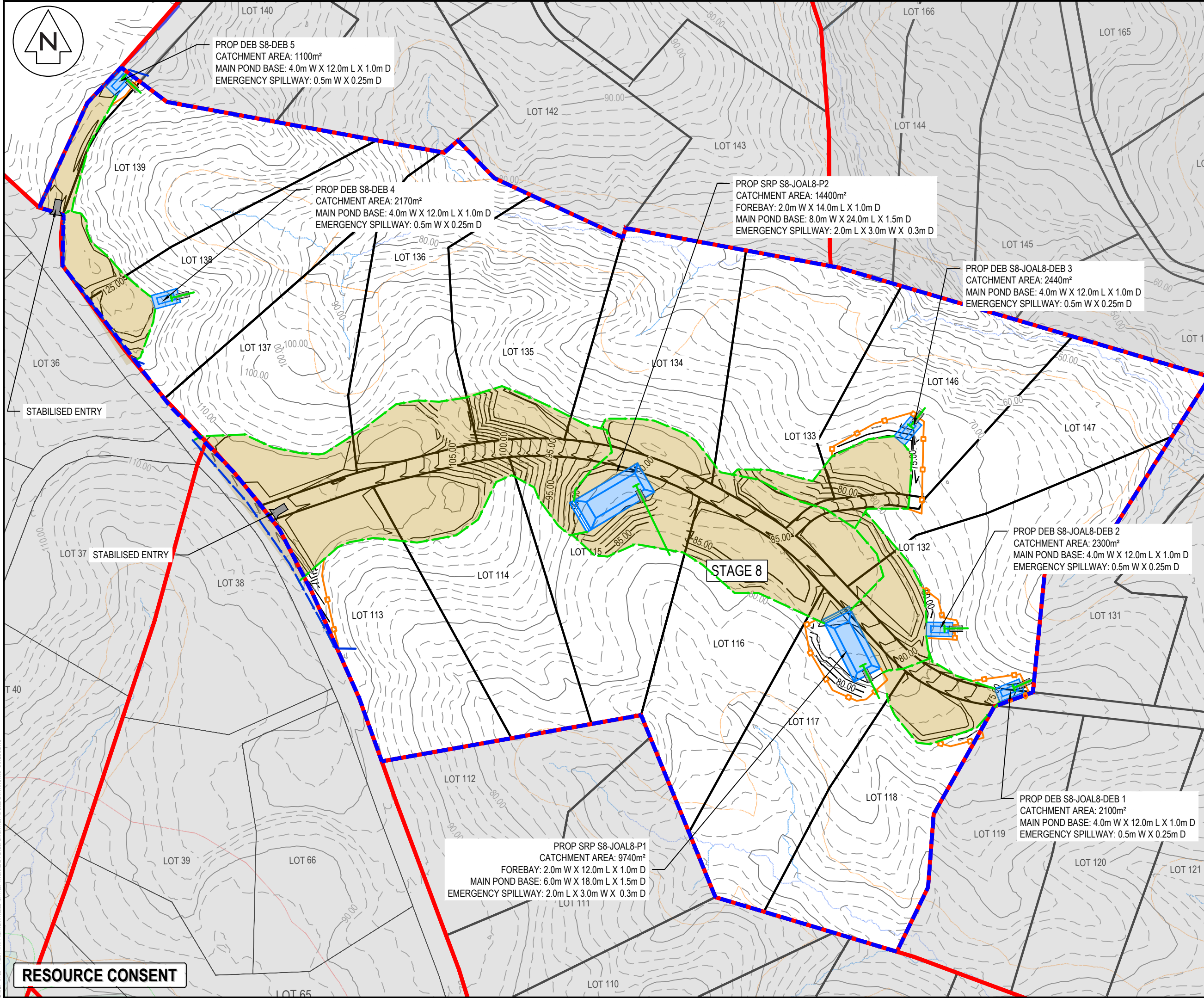
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
CUT/FILL  
PLAN - STAGE 8**

Project no.	147007
Scale	1:2000 @ A3
Cad file	147007-M-C220 EARTHWORKS - STAGE 8.DWG
Drawing no.	C220-8-1
Rev	A

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C220 EARTHWORKS - STAGE 8.DWG





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CATCHMENT AREA	

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Project

**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

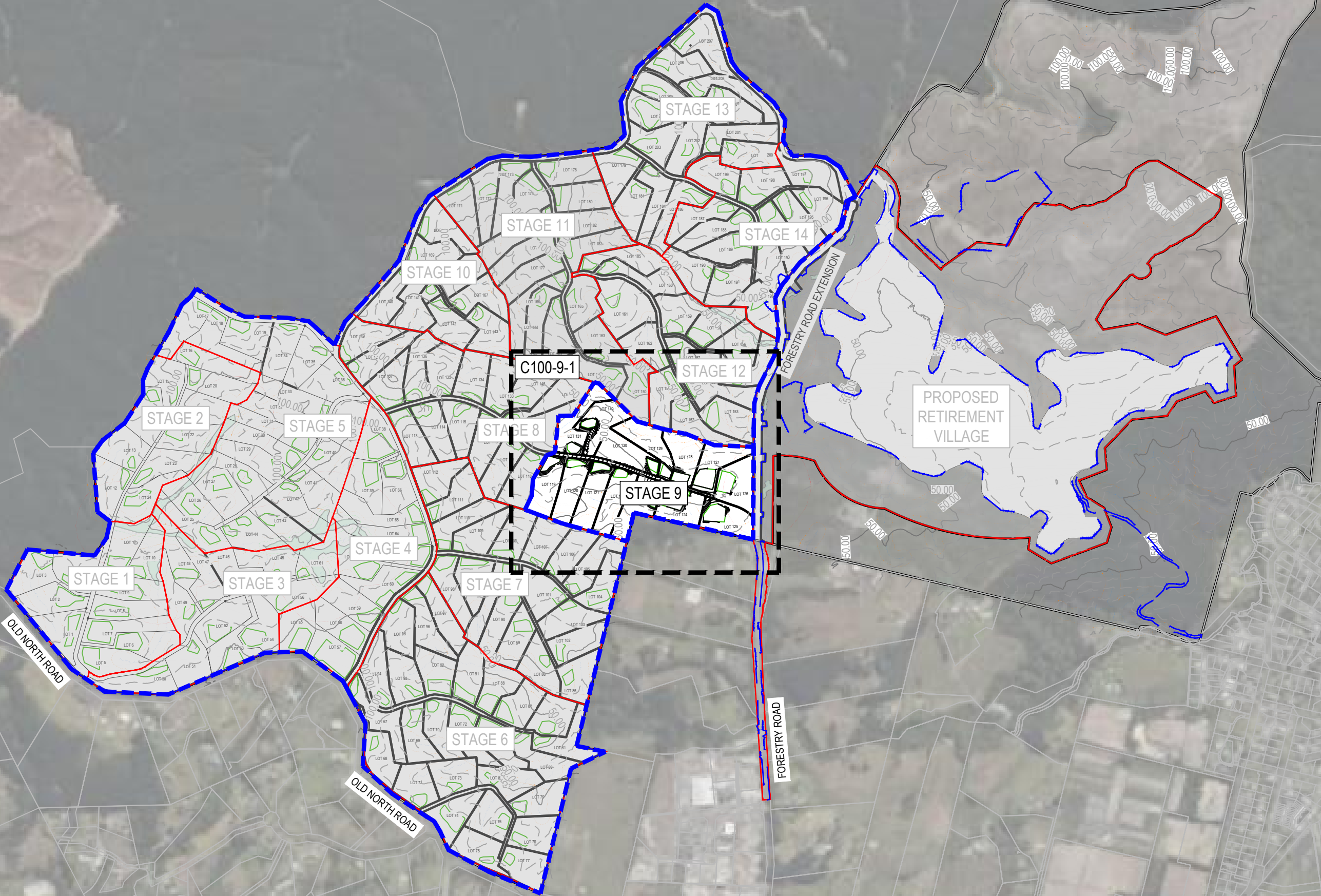
Title

**PROPOSED EROSION SEDIMENT CONTROL PLAN - STAGE 8**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 8.DWG		
Drawing no.	C230-8-1	Rev	<b>A</b>

DATE: 14/05 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 8.DWG





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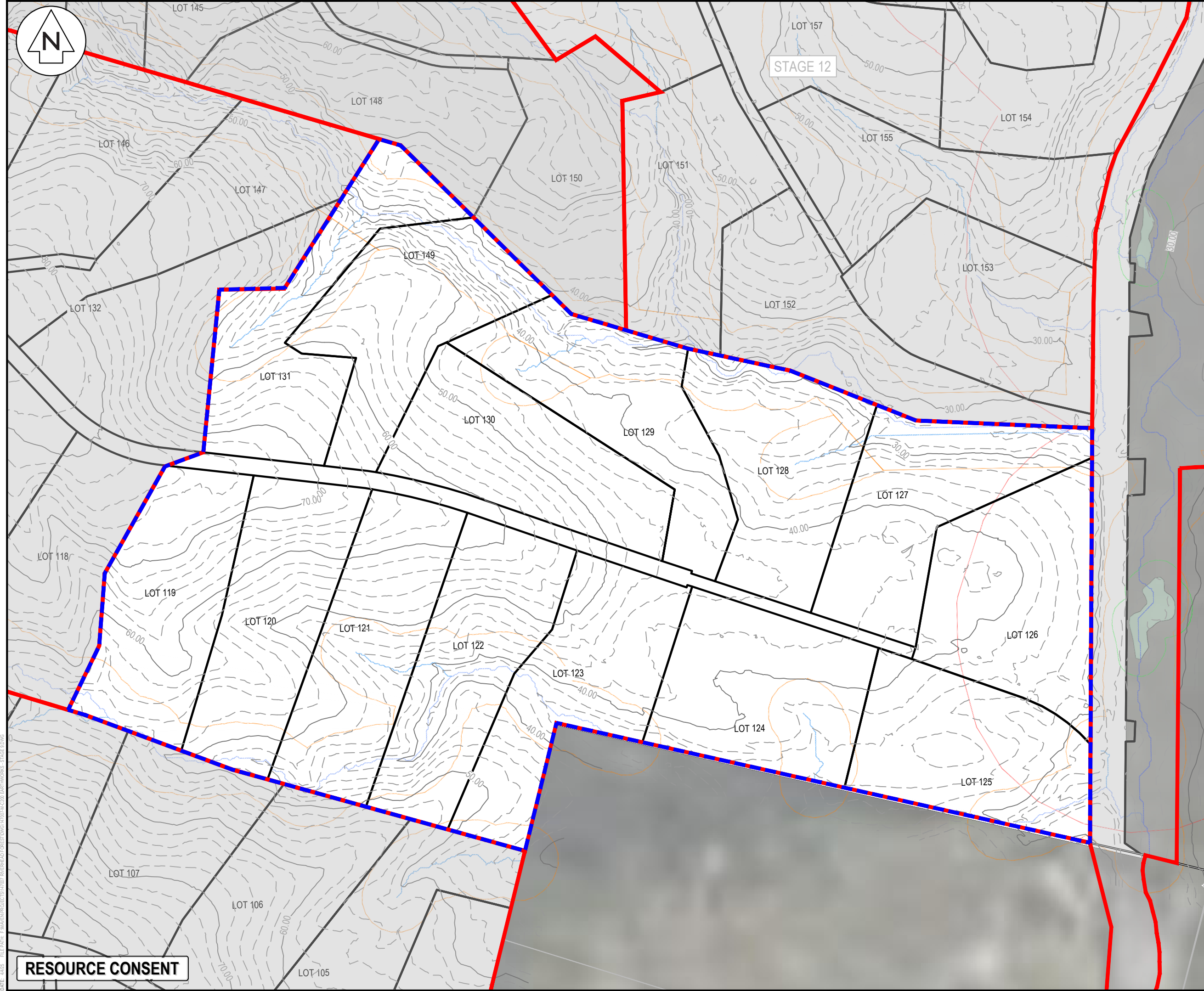
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOO PUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
EARTHWORKS  
OVERVIEW - STAGE 9**

Project no.	147007
Scale	1:10,000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 9.DWG
Drawing no.	C200-9-0
Rev	A

RESOURCE CONSENT





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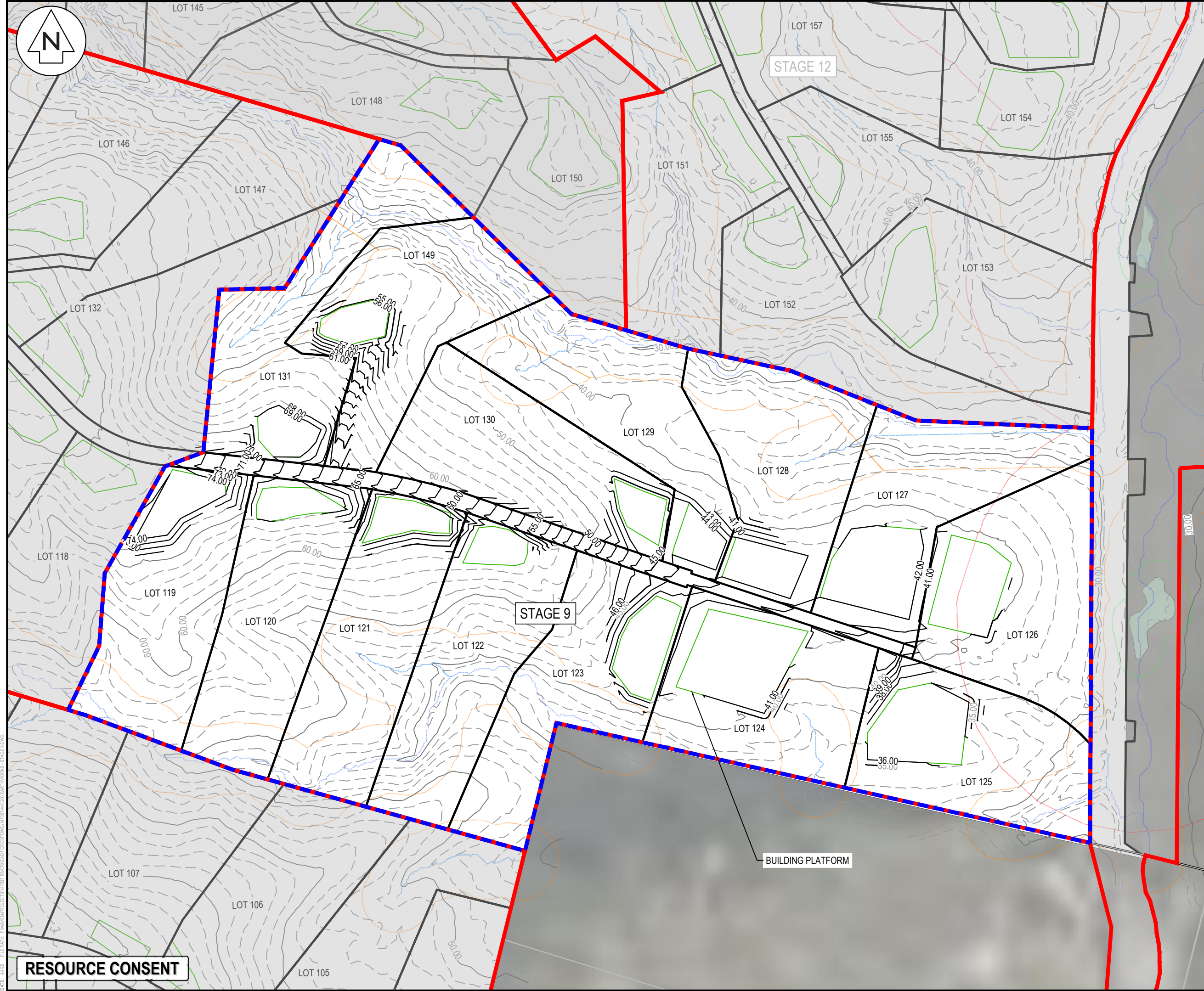
Title

**EXISTING CONTOUR PLAN - STAGE 9**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 9.DWG		
Drawing no.	C200-9-1	Rev	<b>A</b>

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007M-C200 EARTHWORKS - STAGE 9.DWG





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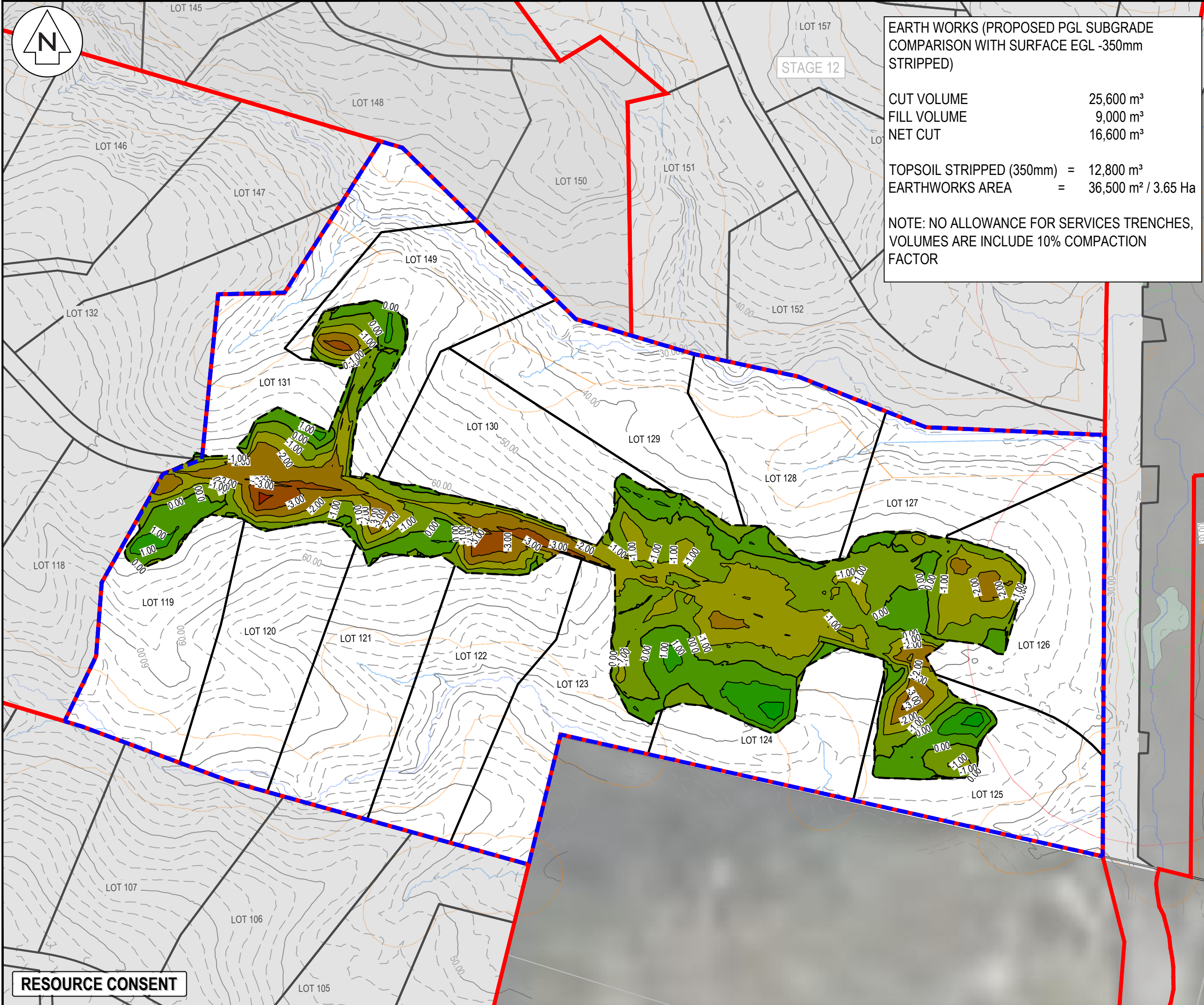
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**PROPOSED EARTHWORKS CONTOUR PLAN - STAGE 9**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 9.DWG		
Drawing no.	C200-9-2	Rev	<b>A</b>

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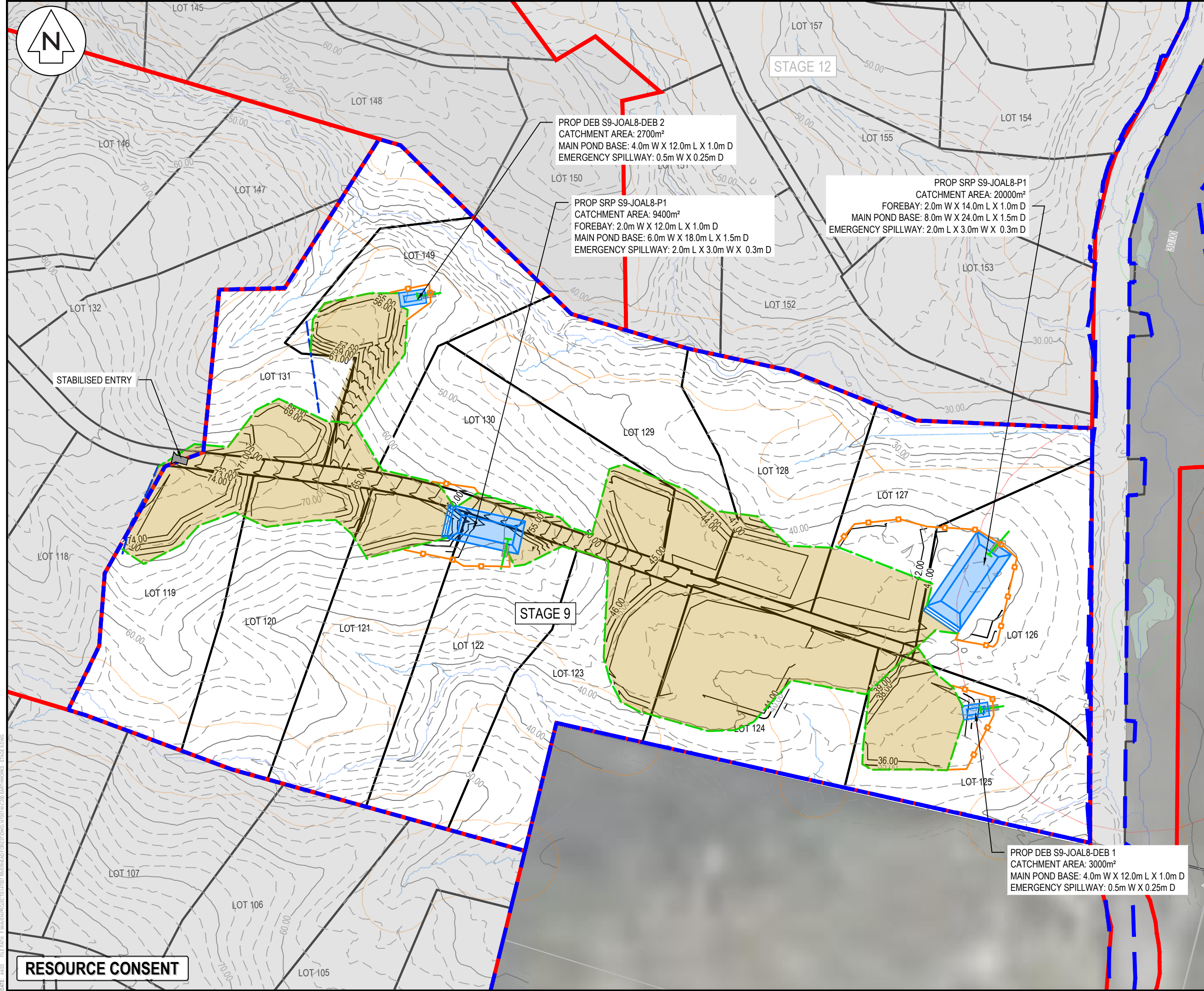
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PARTNERSHIP**

Title  
**PROPOSED  
CUT/FILL  
PLAN - STAGE 9**

Project no.	147007
Scale	1:2000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 9.DWG
Drawing no.	C220-9-1
Rev	<b>A</b>





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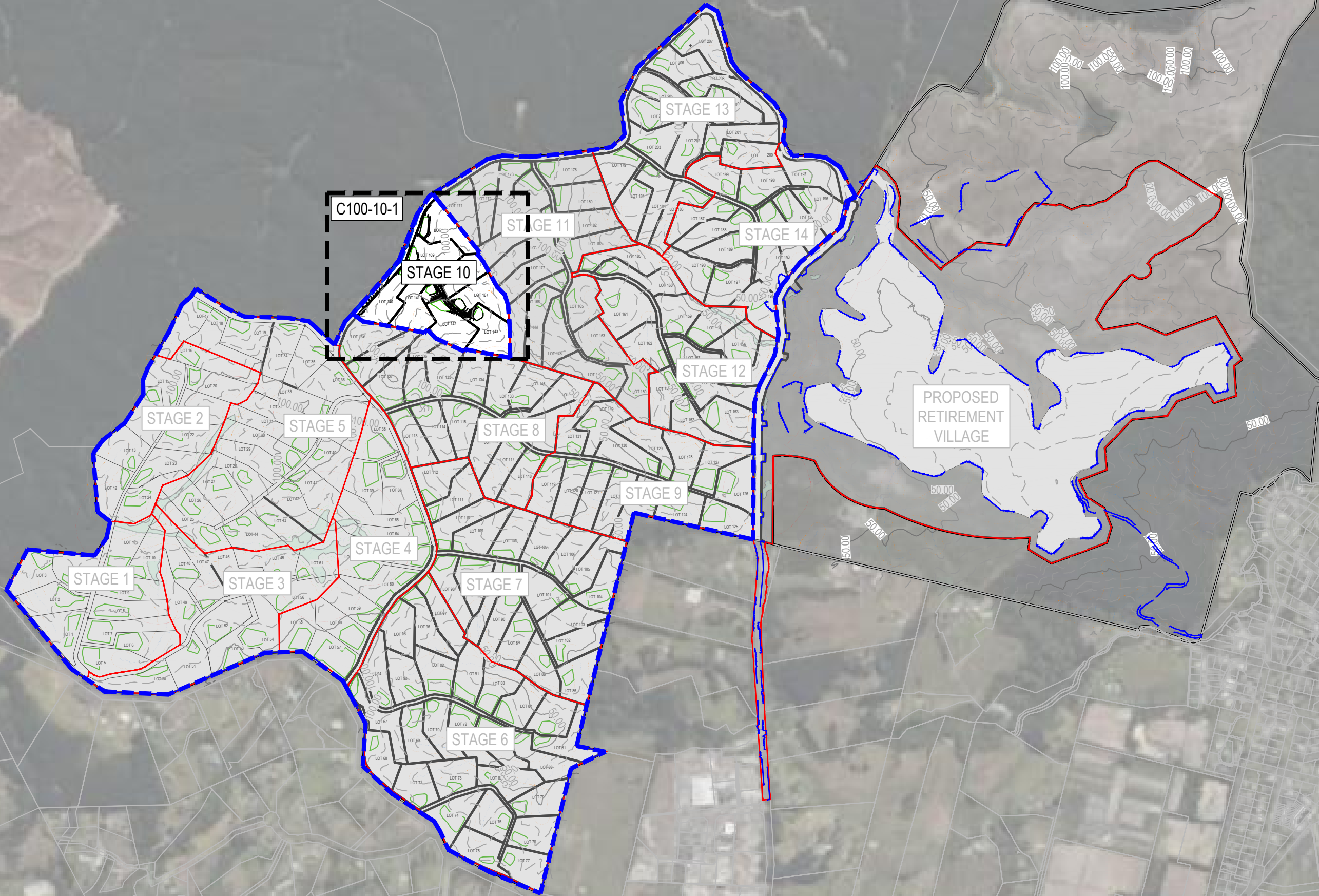
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**PROPOSED EROSION SEDIMENT CONTROL PLAN - STAGE 9**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 9.DWG		
Drawing no.	C230-9-1	Rev	<b>A</b>

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007M-C200 EARTHWORKS - STAGE 9.DWG





- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
  2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
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  5. SEDIMENT CONTROL SHALL BE INSTALLED AND OPERATIONAL BEFORE EARTHWORKS START ONSITE IN ACCORDANCE WITH COUNCIL STANDARDS.
  6. CONTRACTOR SHALL PROVIDE ASBUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECANT VOLUMES TO ENGINEER.
  7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP SUPER SILT FENCE
	PROP STOCKPILE
	PROP DECANT
	PROP DECANT BAR
	STAGE BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND
	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
		By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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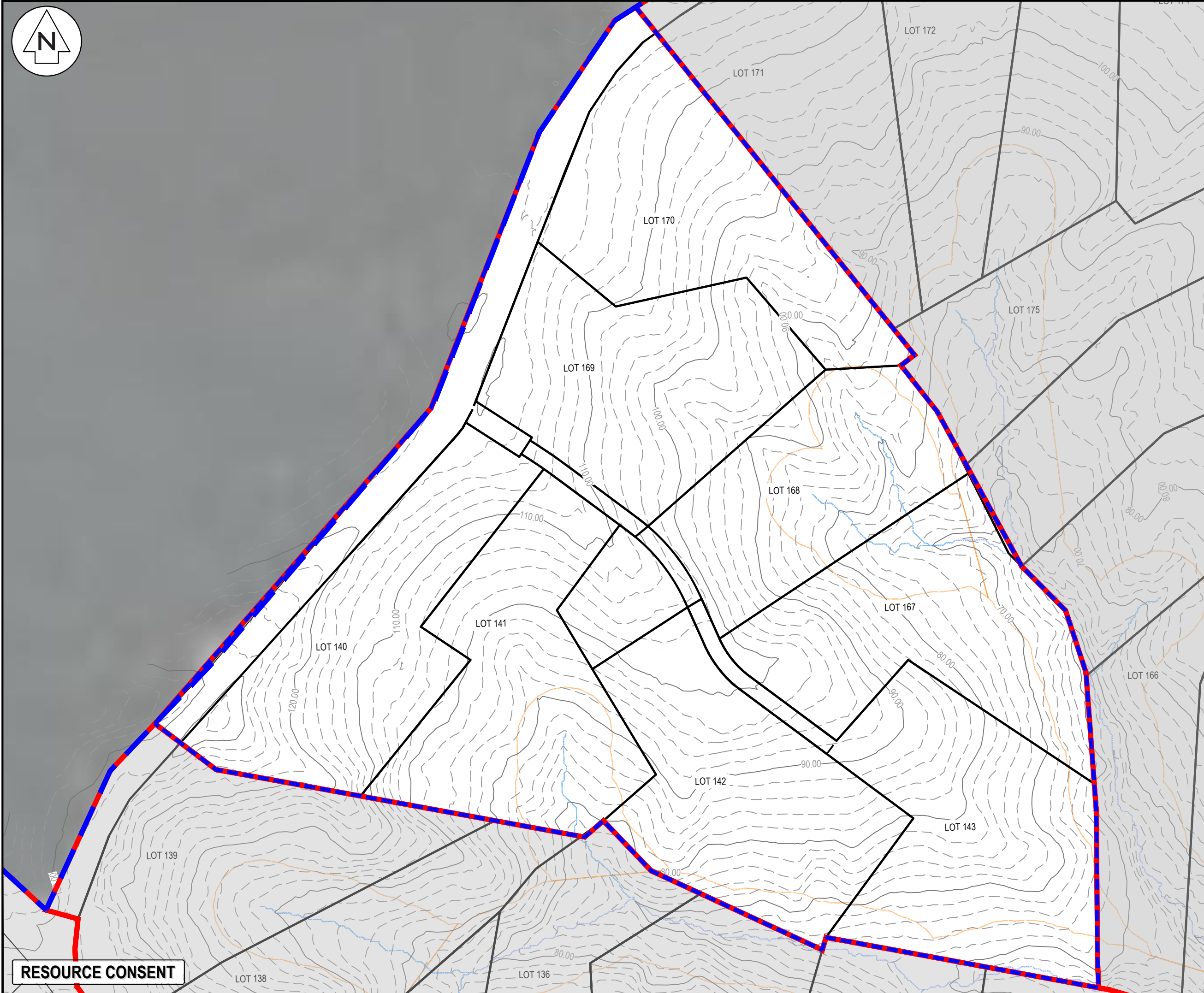
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
EARTHWORKS  
OVERVIEW - STAGE 10**

Project no.	147007
Scale	1:10,000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 10.DWG
Drawing no.	C200-10-0
Rev	<b>A</b>

RESOURCE CONSENT





NOTES

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7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

EX BDY	EX BDY
PROP BDY	PROP BDY
EX MAJOR CONTOUR	EX MAJOR CONTOUR
EX MINOR CONTOUR	EX MINOR CONTOUR
PR MAJOR CONTOUR	PR MAJOR CONTOUR
PR MINOR CONTOUR	PR MINOR CONTOUR
PROP EXTENT WORK	PROP EXTENT WORK
PROP CLEANWATER	PROP CLEANWATER
PROP DIRTYWATER	PROP DIRTYWATER
PROP SILT FENCE	PROP SILT FENCE
PROP SUPER SILT FENCE	PROP SUPER SILT FENCE
PROP STOCKPILE	PROP STOCKPILE
PROP DECANT	PROP DECANT
PROP DECANT BAR	PROP DECANT BAR
STAGE BOUNDARY	STAGE BOUNDARY
EXISTING STREAM	EXISTING STREAM
EXISTING WETLAND	EXISTING WETLAND
10m STREAM SETBACK	10m STREAM SETBACK
RIPARIAN YARD	RIPARIAN YARD
20m SETBACK	20m SETBACK
WETLAND AREA	WETLAND AREA
100m SETBACK	100m SETBACK
EARTHWORKS CATCHMENT AREA	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
		By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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Project

**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title

**EXISTING CONTOUR  
PLAN - STAGE 10**

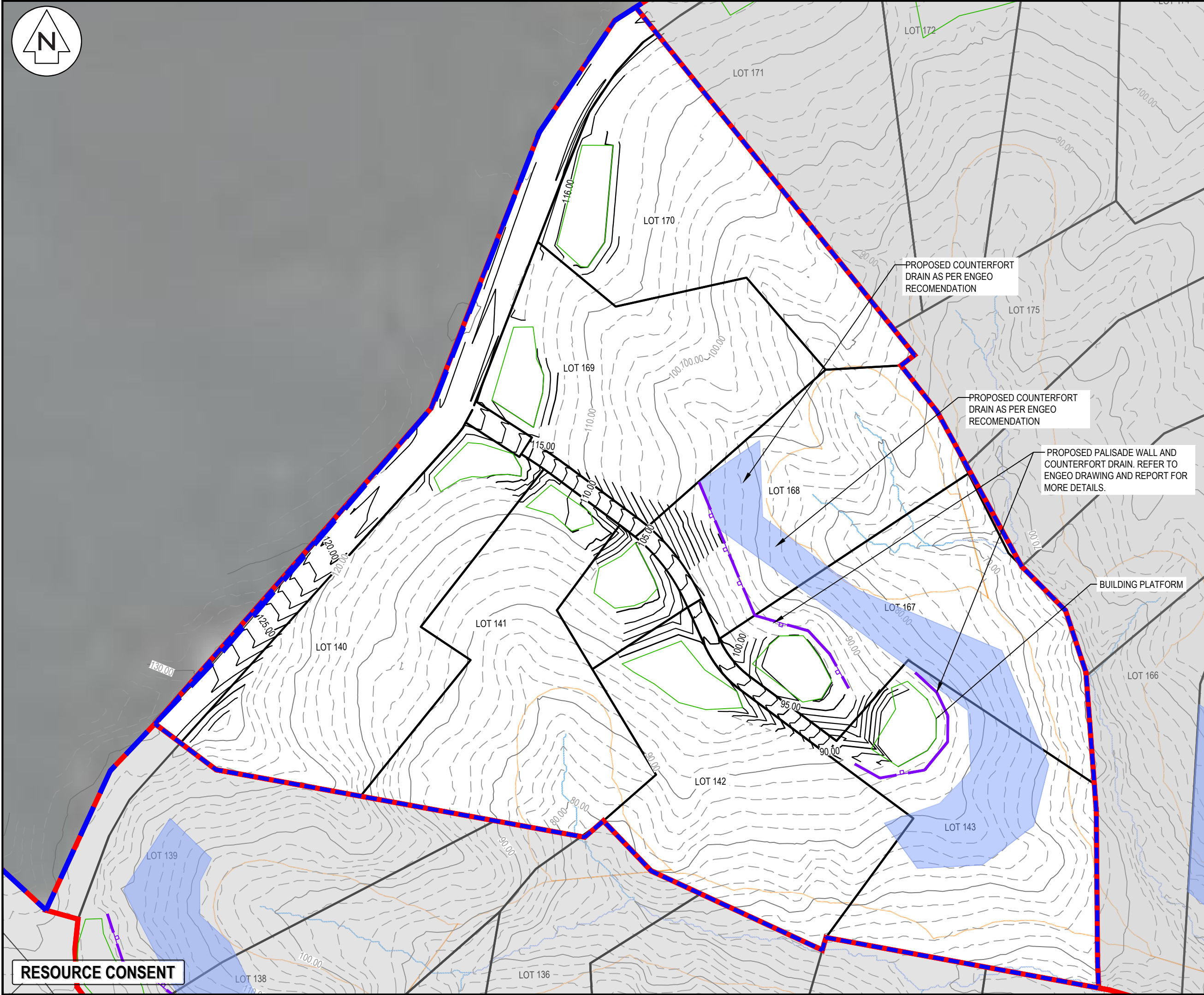
Project no.	147007		
Scale	1:1500 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 10.DWG		
Drawing no.	C200-10-1	Rev	<b>A</b>

DATE: 14/05 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 10.DWG





DATE: 14/05 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 10.DWG



NOTES

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6. CONTRACTOR SHALL PROVIDE ASBUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECANT VOLUMES TO ENGINEER.
7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

EX BDY	EX MAJOR CONTOUR
PROP BDY	EX MINOR CONTOUR
PR MAJOR CONTOUR	PR MINOR CONTOUR
PR EXTENT WORK	PROP CLEANWATER
PROP DIRTYWATER	PROP SILT FENCE
PROP SUPER SILT FENCE	PROP STOCKPILE
PROP DECANT	PROP DECANT BAR
STAGE BOUNDARY	EXISTING STREAM
EXISTING WETLAND	10m STREAM SETBACK
10m STREAM SETBACK	RIPARIAN YARD
20m SETBACK	WETLAND AREA
WETLAND AREA	100m SETBACK
100m SETBACK	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO	03/2023	
Design	HN	03/2025	
Drawn	MA	03/2025	
Checked	RW/KH	03/2025	

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Project  
**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title  
**PROPOSED EARTHWORKS CONTOUR PLAN - STAGE 10**

Project no.	147007		
Scale	1:1500 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 10.DWG		
Drawing no.	C200-10-2	Rev	<b>A</b>





EARTH WORKS (PROPOSED PGL SUBGRADE  
COMPARISON WITH SURFACE EGL -350mm  
STRIPPED)

CUT VOLUME 15,500 m<sup>3</sup>  
FILL VOLUME 2,000 m<sup>3</sup>  
NET CUT 13,500 m<sup>3</sup>

TOPSOIL STRIPPED (350mm) = 6,200 m<sup>3</sup>  
EARTHWORKS AREA = 17,700 m<sup>2</sup> / 1.77 Ha

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,  
VOLUMES ARE INCLUDE 10% COMPACTION FACTOR

- NOTES
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  7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

EX BDY  
PROP BDY  
PROP EXTENT WORK

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
1	-5.000	-4.000	
2	-4.000	-3.000	
3	-3.000	-2.000	
4	-2.000	-1.000	
5	-1.000	0.000	
6	0.000	1.000	
7	1.000	2.000	

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025



Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
CUT/FILL  
PLAN - STAGE 10**

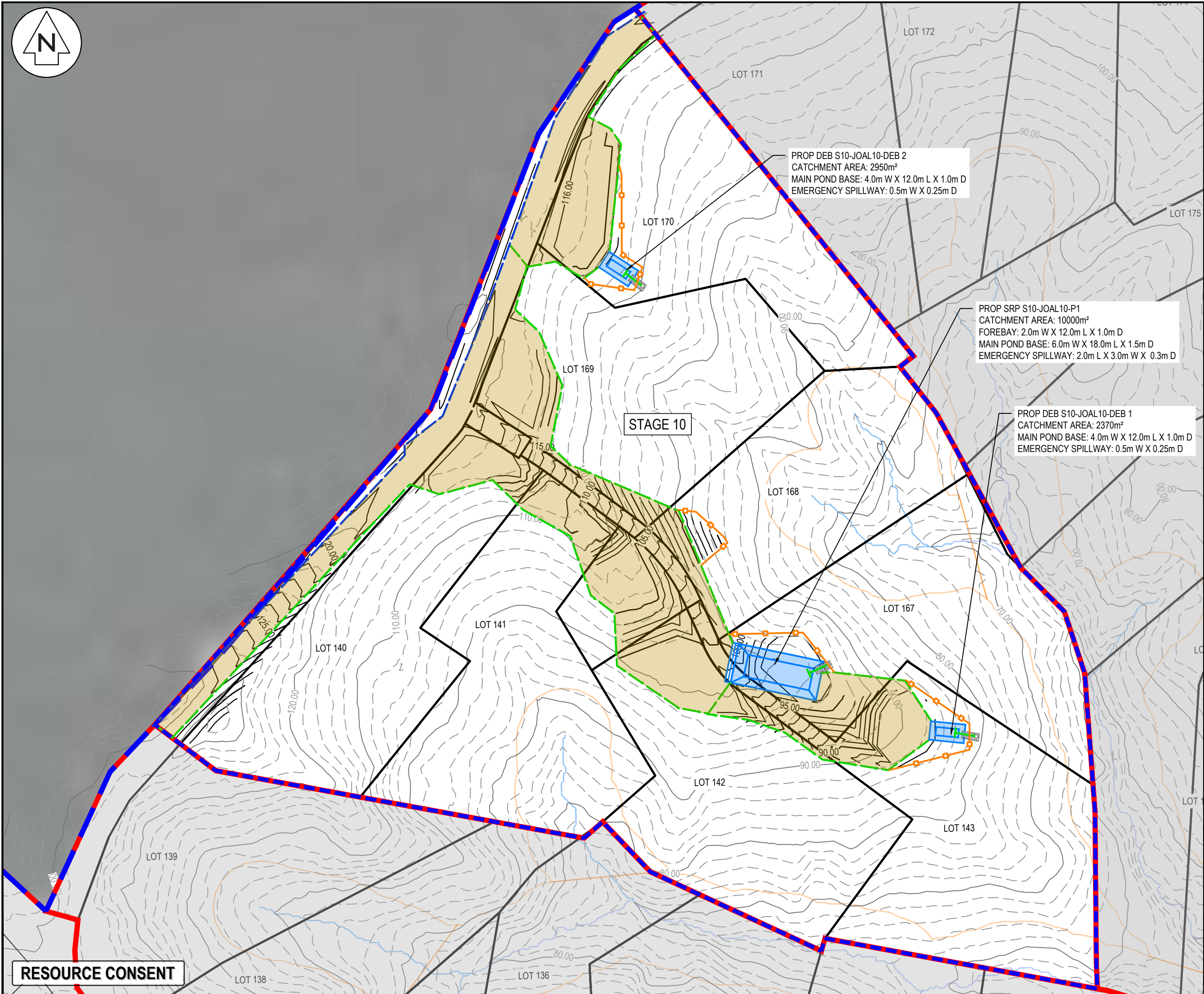
Project no.	147007
Scale	1:1500 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 10.DWG
Drawing no.	C220-10-1
Rev	A

RESOURCE CONSENT





DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 10.DWG



RESOURCE CONSENT

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LEGEND

	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP SUPER SILT FENCE
	PROP STOCKPILE
	PROP DECANT
	PROP DECANT BAR
	STAGE BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND
	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS
	CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

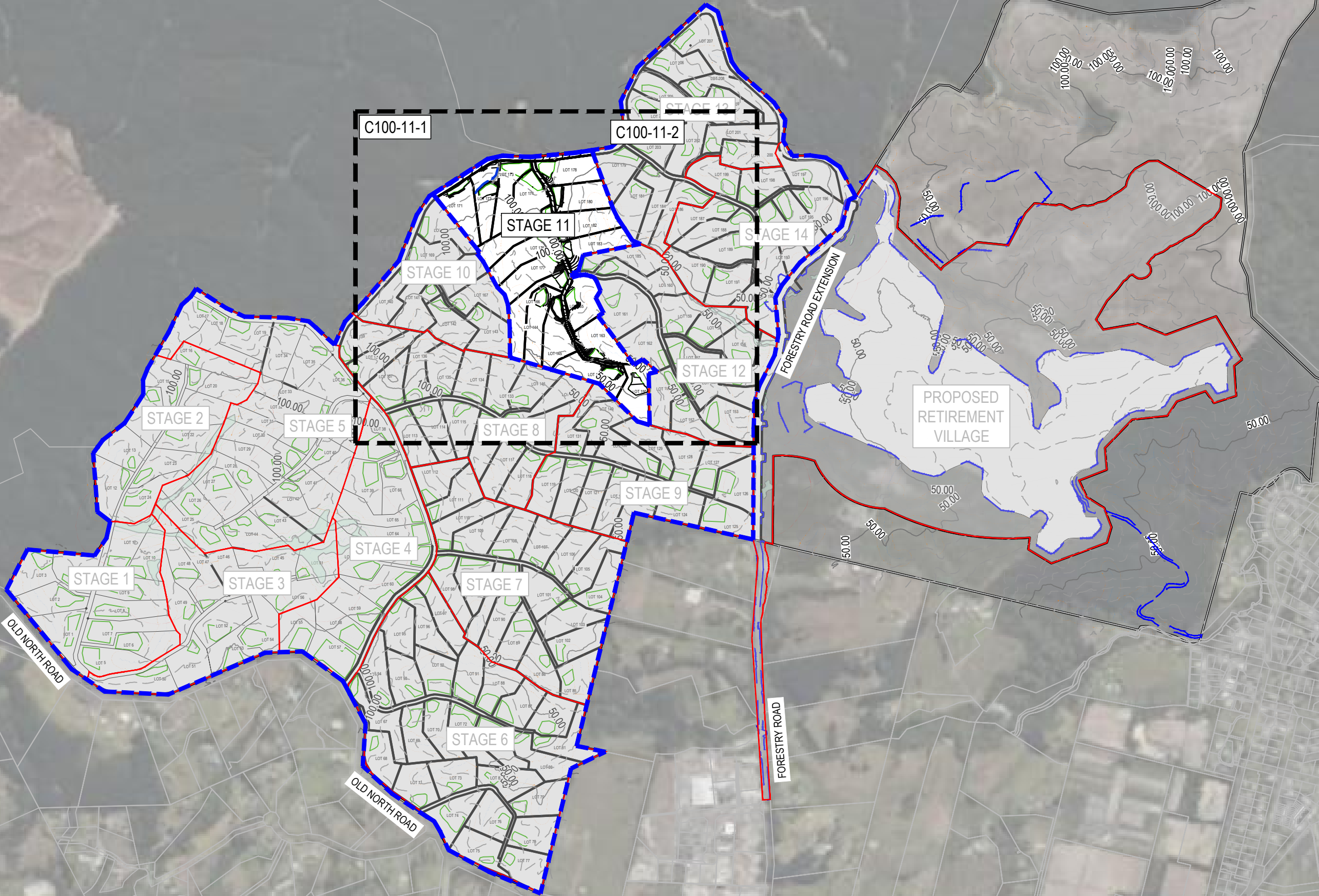
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Auckland 1023

Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED EROSION  
SEDIMENT CONTROL  
PLAN - STAGE 10**

Project no.	147007
Scale	1:1500 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 10.DWG
Drawing no.	C230-10-1
Rev	<b>A</b>





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- LEGEND
- EX BDY
  - PROP BDY
  - EX MAJOR CONTOUR
  - EX MINOR CONTOUR
  - PR MAJOR CONTOUR
  - PR MINOR CONTOUR
  - PROP EXTENT WORK
  - PROP CLEANWATER
  - PROP DIRTYWATER
  - PROP SILT FENCE
  - PROP SUPER SILT FENCE
  - PROP STOCKPILE
  - PROP DECANT
  - PROP DECANT BAR
  - STAGE BOUNDARY
  - EXISTING STREAM
  - EXISTING WETLAND
  - 10m STREAM SETBACK
  - RIPARIAN YARD
  - 20m SETBACK
  - WETLAND AREA
  - 100m SETBACK
  - EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOO PUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
EARTHWORKS  
OVERVIEW - STAGE 11**

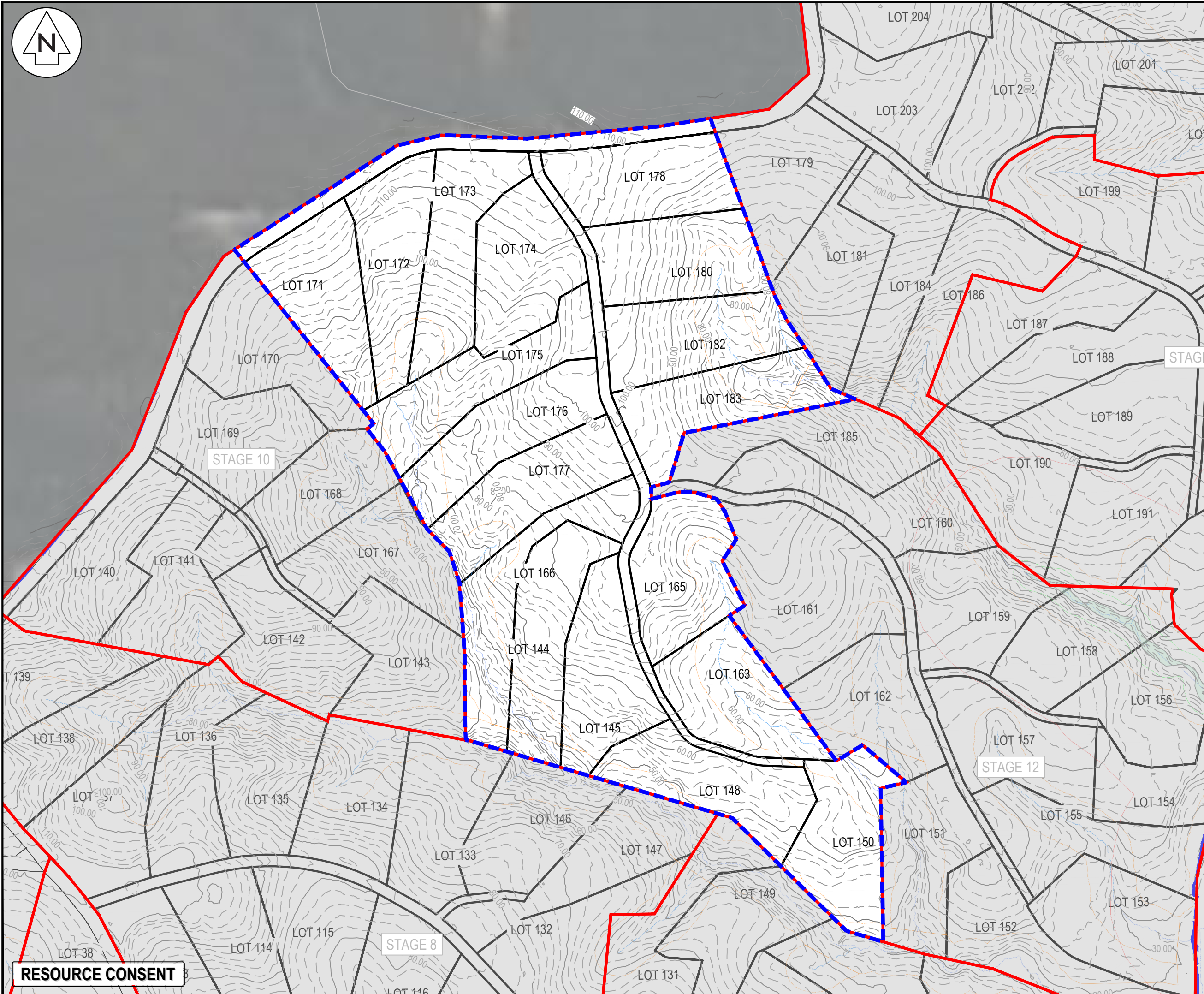
Project no.	147007
Scale	1:10,000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 11.DWG
Drawing no.	C200-11-0
Rev	<b>A</b>

RESOURCE CONSENT





DATE: 14/03/25 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 11.DWG



NOTES

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LEGEND

	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP SUPER SILT FENCE
	PROP STOCKPILE
	PROP DECANT
	PROP DECANT BAR
	STAGE BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND
	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO	03/2023	
Design	HN	03/2025	
Drawn	MA	03/2025	
Checked	RW/KH	03/2025	

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Project

**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title

**EXISTING CONTOUR PLAN - STAGE 11**

Project no.	147007		
Scale	1:3000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 11.DWG		
Drawing no.	C200-11-1	Rev	<b>A</b>

RESOURCE CONSENT





- 
- EX BDY
- PROP BDY
- EX MAJOR CONTOUR
- EX MINOR CONTOUR
- PR MAJOR CONTOUR
- PR MINOR CONTOUR
- PROP EXTENT WORK
- PROP CLEANWATER
- PROP DIRTYWATER
- PROP SILT FENCE
- PROP SUPER SILT FENCE
- PROP STOCKPILE
- PROP DECANT
- PROP DECANT BAR
- STAGE BOUNDARY
- EXISTING STREAM
- EXISTING WETLAND
- 10m STREAM SETBACK
- RIPARIAN YARD
- 20m SETBACK
- WETLAND AREA
- 100m SETBACK
- EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
	By	Date	
✓ Survey	LANDPRO	03/2023	
Design	HN	03/2025	
Drawn	MA	03/2025	
✓ Checked	RW/KH	03/2025	



Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title

**PROPOSED  
EARTHWORKS CONTOURS  
PLAN - STAGE 11**

Project no.	147007		
Scale	1:3000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 11.DWG		
Drawing no.	C200-11-2	Rev	<b>A</b>





EARTH WORKS (PROPOSED PGL SUBGRADE  
COMPARISON WITH SURFACE EGL -350mm STRIPPED)

CUT VOLUME 83,700 m<sup>3</sup>  
FILL VOLUME 10,000 m<sup>3</sup>  
NET CUT 73,700 m<sup>3</sup>

TOPSOIL STRIPPED (350mm) = 29,200 m<sup>3</sup>  
EARTHWORKS AREA = 83,400 m<sup>2</sup> / 8.34 Ha

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,  
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  7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

EX BDY  
PROP BDY  
PROP EXTENT WORK

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
		By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025



Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
CUT/FILL  
PLAN - STAGE 11**

Project no.	147007
Scale	1:3000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 11.DWG
Drawing no.	C220-11-1
Rev	A

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
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4	-4.000	-3.000	
5	-3.000	-2.000	
6	-2.000	-1.000	
7	-1.000	0.000	
8	0.000	1.000	
9	1.000	2.000	
10	2.000	3.000	

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 11.DWG





PROP DEB S11-JOAL11-DEB 4  
CATCHMENT AREA: 2980m<sup>2</sup>  
MAIN POND BASE: 4.0m W X 12.0m L X 1.0m D  
EMERGENCY SPILLWAY: 0.5m W X 0.25m D

STABILISED ENTRY

PROP DEB S11-JOAL11-DEB 3  
CATCHMENT AREA: 2010m<sup>2</sup>  
MAIN POND BASE: 4.0m W X 12.0m L X 1.0m D  
EMERGENCY SPILLWAY: 0.5m W X 0.25m D

STAGE 10

PROP DEB S11-JOAL11-DEB 2  
CATCHMENT AREA: 2300m<sup>2</sup>  
MAIN POND BASE: 4.0m W X 12.0m L X 1.0m D  
EMERGENCY SPILLWAY: 0.5m W X 0.25m D

PROP SRP S11-JOAL11-P1  
CATCHMENT AREA: 11650m<sup>2</sup>  
FOREBAY: 2.0m W X 14.0m L X 1.0m D  
MAIN POND BASE: 8.0m W X 24.0m L X 1.5m D  
EMERGENCY SPILLWAY: 2.0m L X 3.0m W X 0.3m D

STAGE 8

PROP SRP S11-JOAL11-P2  
CATCHMENT AREA: 25700m<sup>2</sup>  
FOREBAY: 2.0m W X 18.0m L X 1.0m D  
MAIN POND BASE: 12.0m W X 36.0m L X 1.5m D  
EMERGENCY SPILLWAY: 2.0m L X 3.0m W X 0.3m D

PROP DEB S11-JOAL11-DEB 1  
CATCHMENT AREA: 3000m<sup>2</sup>  
MAIN POND BASE: 4.0m W X 12.0m L X 1.0m D  
EMERGENCY SPILLWAY: 0.5m W X 0.25m D

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LEGEND

- EX BDY
- PROP BDY
- EX MAJOR CONTOUR
- EX MINOR CONTOUR
- PR MAJOR CONTOUR
- PR MINOR CONTOUR
- PROP EXTENT WORK
- PROP CLEANWATER
- PROP DIRTYWATER
- PROP SILT FENCE
- PROP SUPER SILT FENCE
- PROP STOCKPILE
- PROP DECANT
- PROP DECANT BAR
- STAGE BOUNDARY
- EXISTING STREAM
- EXISTING WETLAND
- 10m STREAM SETBACK
- RIPARIAN YARD
- 20m SETBACK
- WETLAND AREA
- 100m SETBACK
- EARTHWORKS
- CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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Auckland 1023

Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

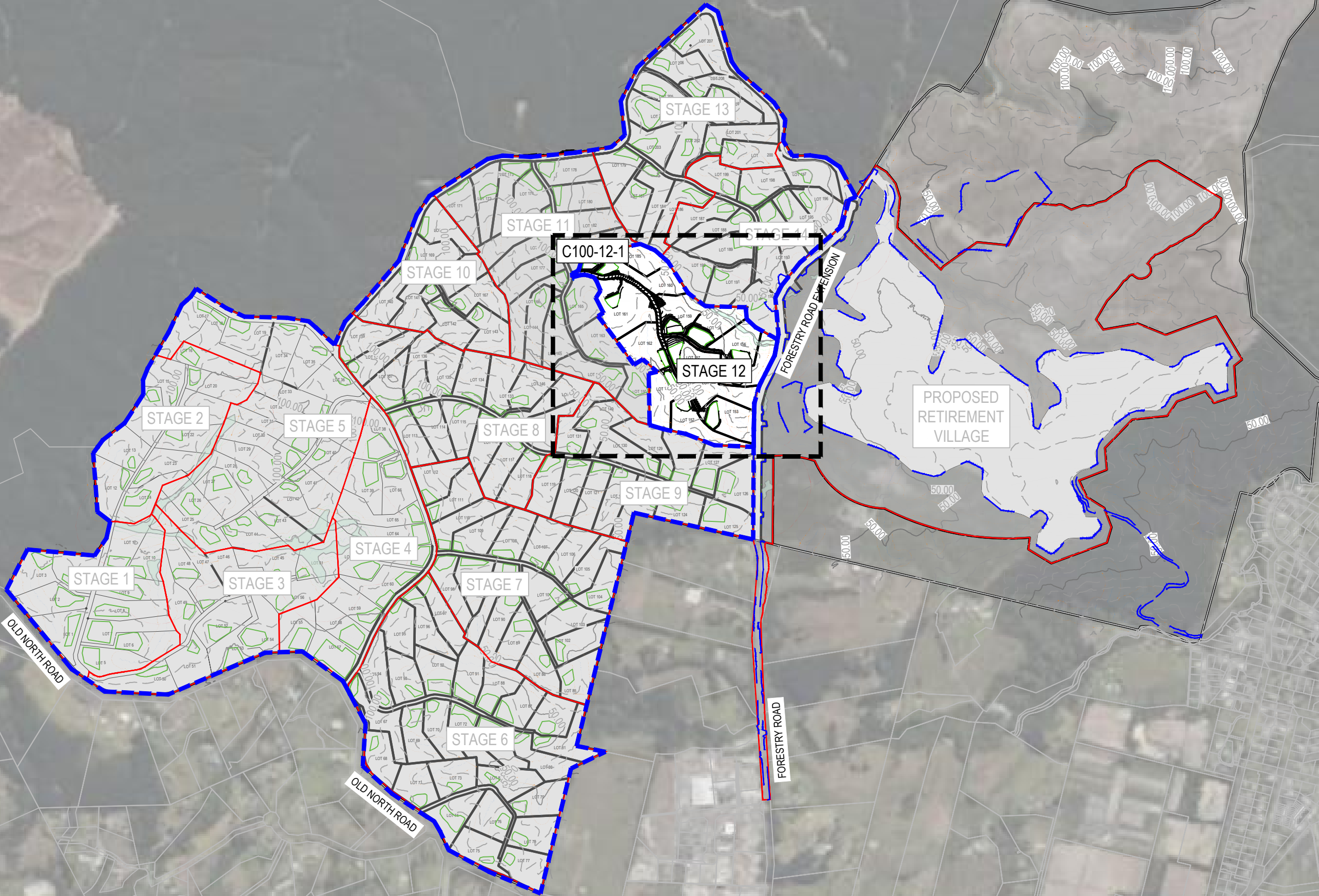
Title  
**PROPOSED EROSION  
SEDIMENT CONTROL  
PLAN - STAGE 11**

Project no.	147007
Scale	1:3000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 11.DWG
Drawing no.	C230-11-1
Rev	A

RESOURCE CONSENT

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 11.DWG





- NOTES
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  7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP SUPER SILT FENCE
	PROP STOCKPILE
	PROP DECANT
	PROP DECANT BAR
	STAGE BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND
	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
		By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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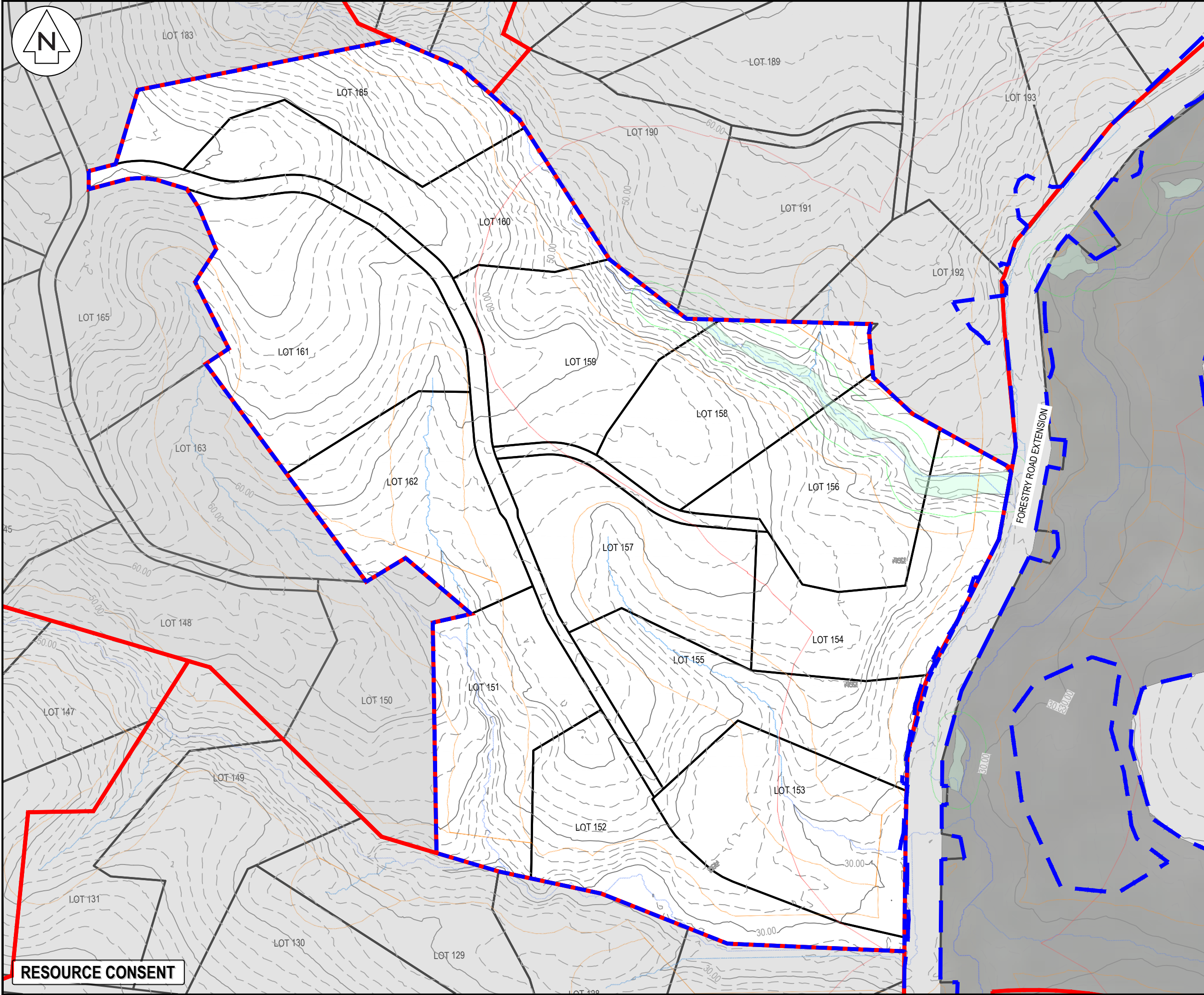
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
EARTHWORKS  
OVERVIEW - STAGE 12**

Project no.	147007
Scale	1:10,000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 12.DWG
Drawing no.	C200-12-0
Rev	A

RESOURCE CONSENT





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LEGEND

---	EX BDY
---	PROP BDY
---	EX MAJOR CONTOUR
---	EX MINOR CONTOUR
---	PR MAJOR CONTOUR
---	PR MINOR CONTOUR
---	PROP EXTENT WORK
---	PROP CLEANWATER
---	PROP DIRTYWATER
---	PROP SILT FENCE
---	PROP SUPER SILT FENCE
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---	PROP DECANT BAR
---	STAGE BOUNDARY
---	EXISTING STREAM
---	EXISTING WETLAND
---	10m STREAM SETBACK
---	RIPARIAN YARD
---	20m SETBACK
---	WETLAND AREA
---	100m SETBACK
---	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
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Project

**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

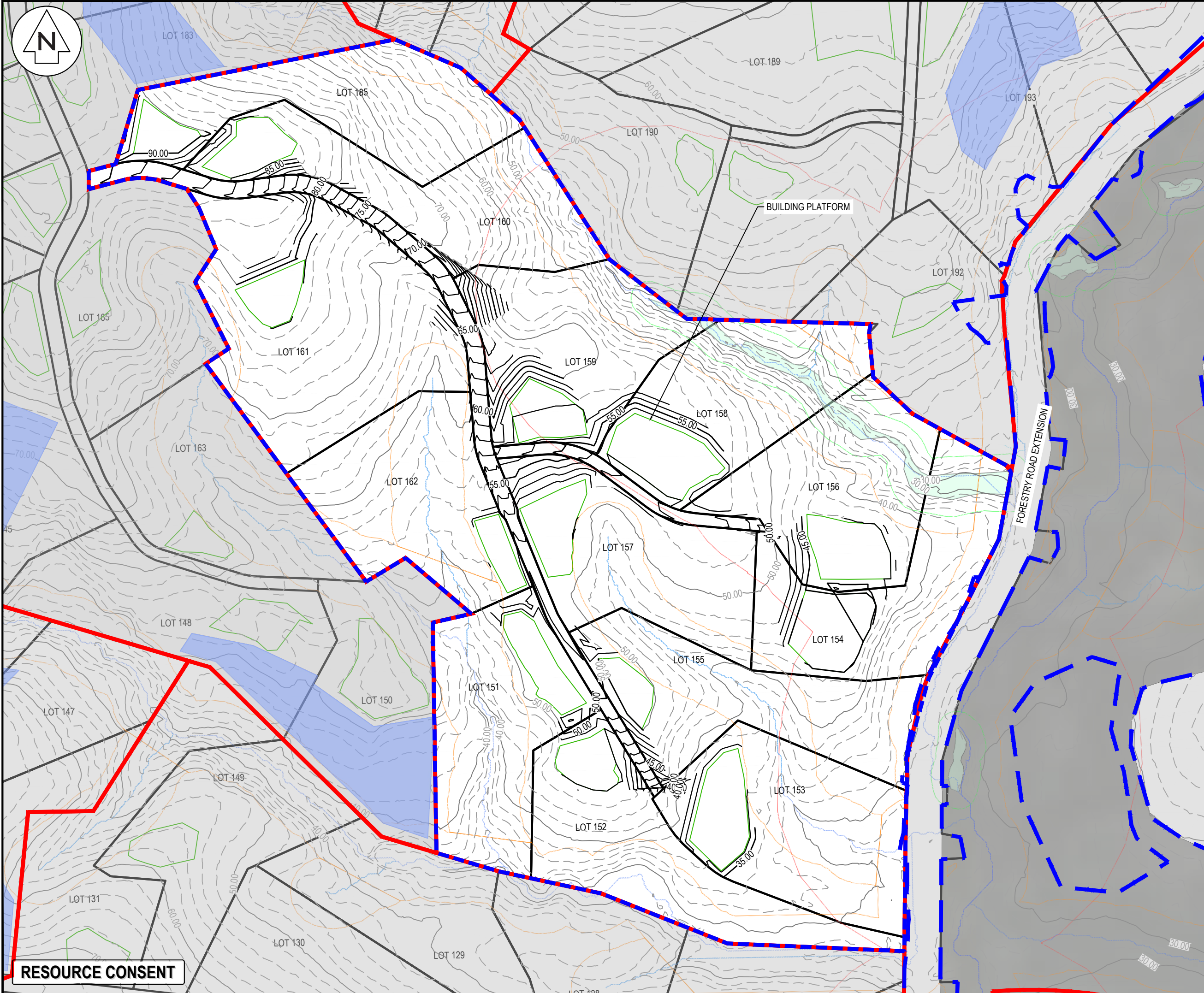
Title

**EXISTING CONTOUR PLAN - STAGE 12**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 12.DWG		
Drawing no.	C200-12-1	Rev	<b>A</b>

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 12.DWG





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	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP SUPER SILT FENCE
	PROP STOCKPILE
	PROP DECANT
	PROP DECANT BAR
	STAGE BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND
	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
		By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
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Project

**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

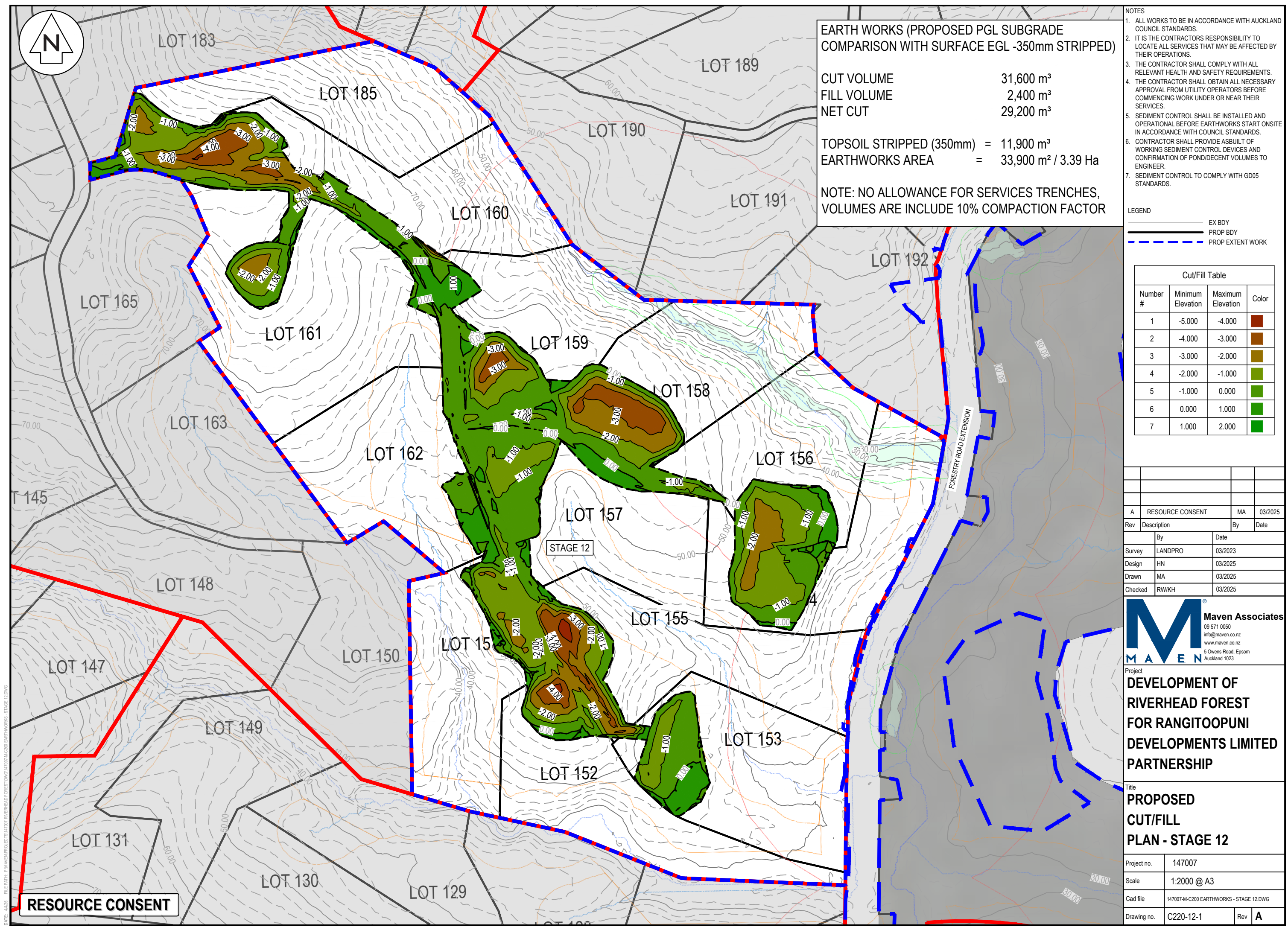
Title

**PROPOSED  
EARTHWORKS CONTOUR  
PLAN - STAGE 12**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 12.DWG		
Drawing no.	C200-12-2	Rev	<b>A</b>

DATE: 14/05 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 12.DWG












NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,  
VOLUMES ARE INCLUDE 10% COMPACTION FACTOR

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LEGEND

— EX BDY  
 — PROP BDY  
 — PROP EXTENT WORK

Number #	Minimum Elevation	Maximum Elevation	Color
1	-5.000	-4.000	
2	-4.000	-3.000	
3	-3.000	-2.000	
4	-2.000	-1.000	
5	-1.000	0.000	
6	0.000	1.000	
7	1.000	2.000	

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LANDPRO	03/2023	
Design	HN	03/2025	
Drawn	MA	03/2025	
Checked	RW/KH	03/2025	



Project

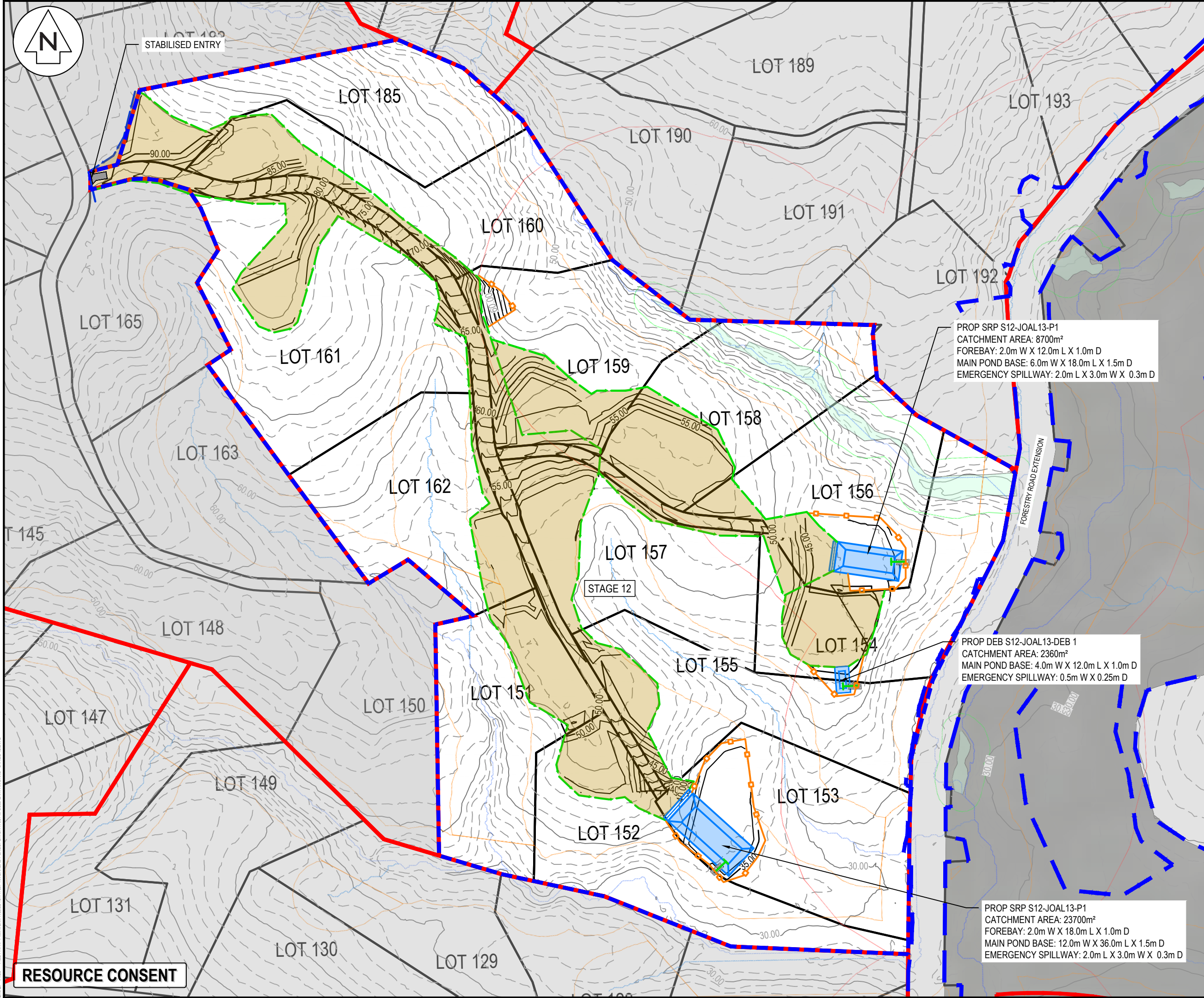
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title	<b>PROPOSED CUT/FILL PLAN - STAGE 12</b>
-------	--

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 12.DWG		
Drawing no.	C220-12-1	Rev	<b>A</b>

DATE: 4/4/25 FILE PATH: F:\MAVEN\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 12.DWG





NOTES

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LEGEND

	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP SUPER SILT FENCE
	PROP STOCKPILE
	PROP DECANT
	PROP DECANT BAR
	STAGE BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND
	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS
	CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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Project

**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

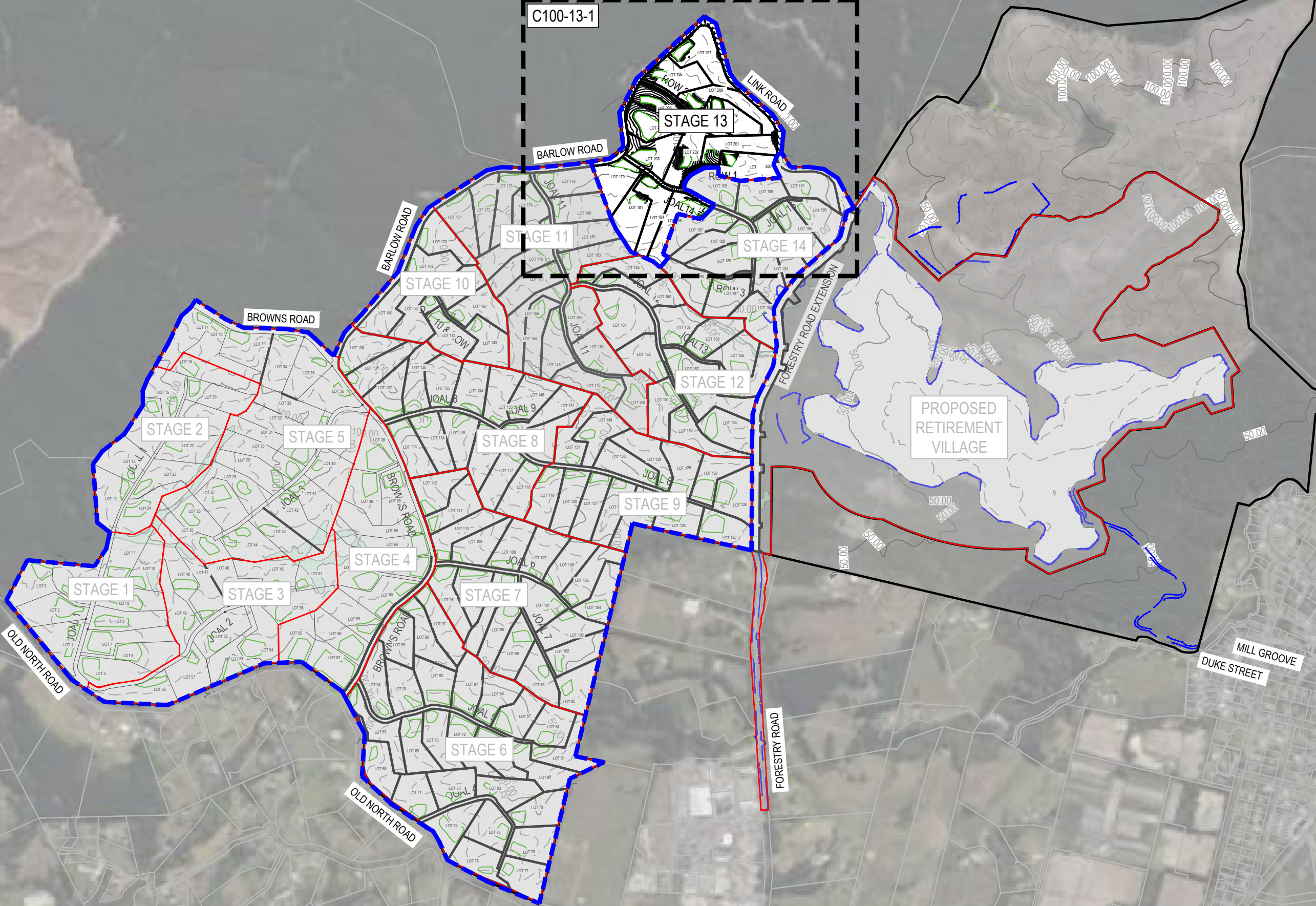
Title

**PROPOSED EROSION SEDIMENT CONTROL PLAN - STAGE 12**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 12.DWG		
Drawing no.	C230-12-1	Rev	<b>A</b>

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 12.DWG





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	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
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	20m SETBACK
	WETLAND AREA
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	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
		By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

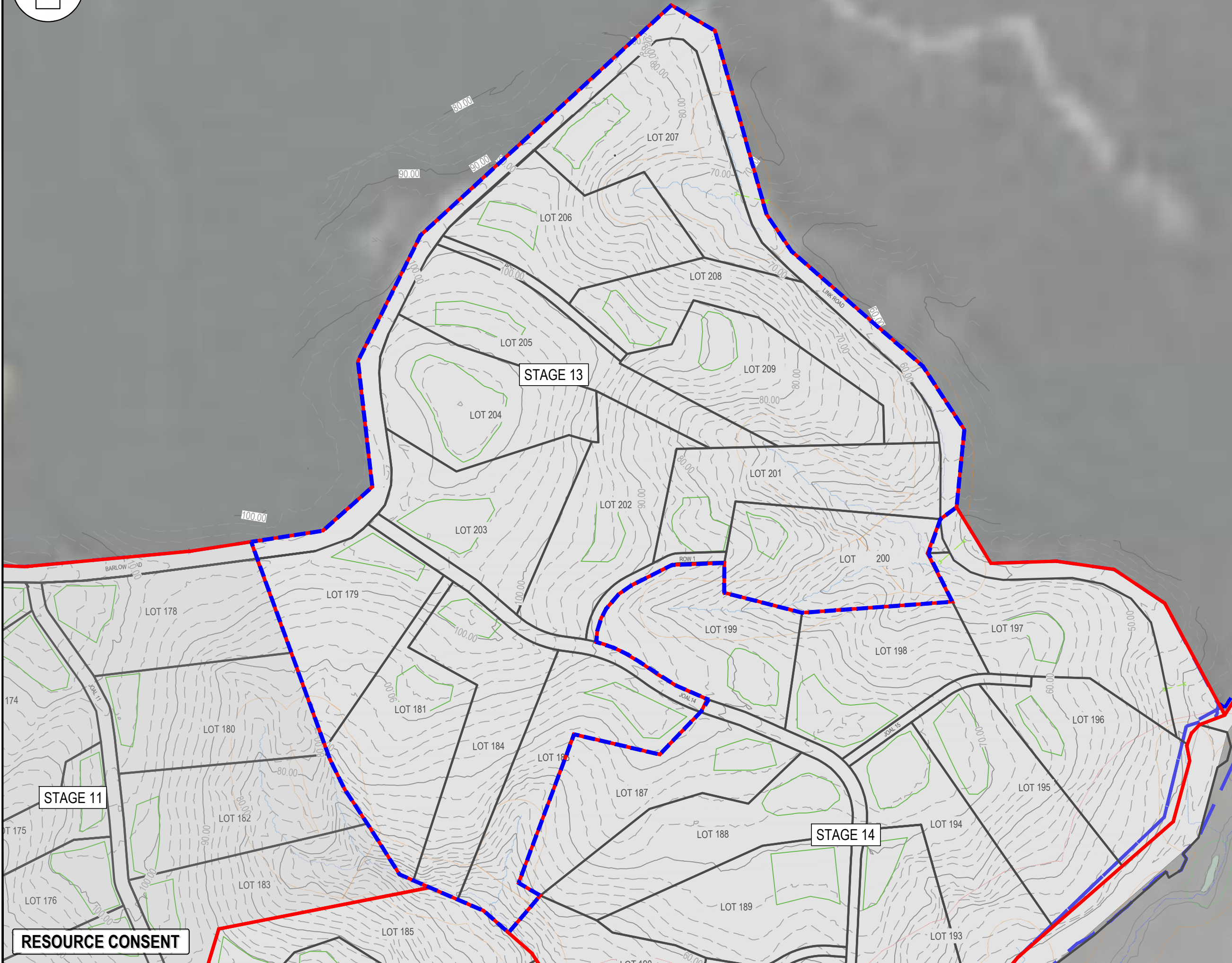
**M** **Maven Associates**  
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Auckland 1023

Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
EARTHWORKS  
OVERVIEW - STAGE 13**

Project no.	147007
Scale	1:10,000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 13.DWG
Drawing no.	C200-13-0
Rev	<b>A</b>





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---	EX BDY
---	PROP BDY
---	EX MAJOR CONTOUR
---	EX MINOR CONTOUR
---	PR MAJOR CONTOUR
---	PR MINOR CONTOUR
---	PROP EXTENT WORK
---	PROP CLEANWATER
---	PROP DIRTYWATER
---	PROP SILT FENCE
---	PROP SUPER SILT FENCE
---	PROP STOCKPILE
---	PROP DECANT
---	PROP DECANT BAR
---	STAGE BOUNDARY
---	EXISTING STREAM
---	EXISTING WETLAND
---	10m STREAM SETBACK
---	RIPARIAN YARD
---	20m SETBACK
---	WETLAND AREA
---	100m SETBACK
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A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

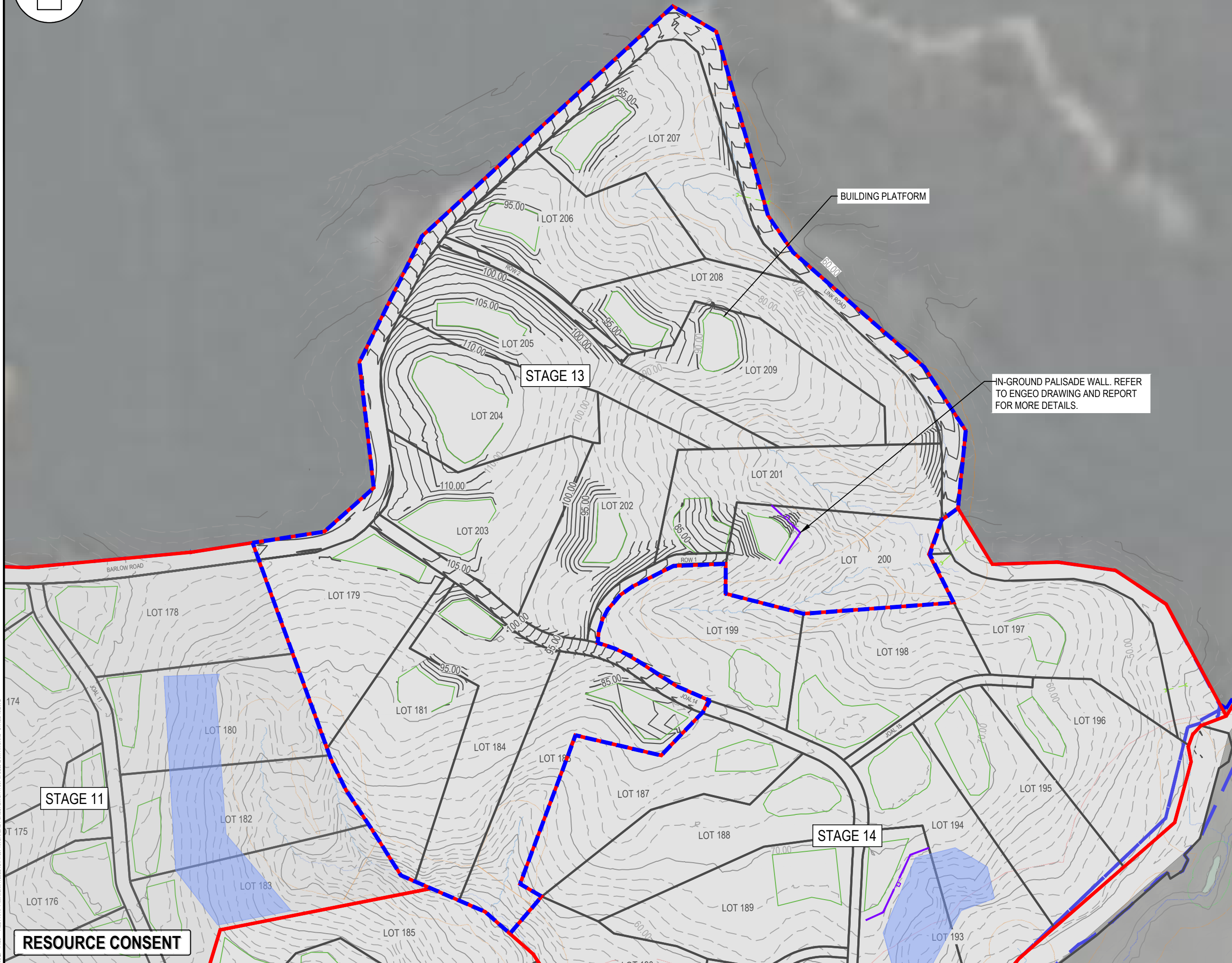
**M** **Maven Associates**  
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Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**EXISTING CONTOUR  
PLAN - STAGE 13**

Project no.	147007
Scale	1:2500 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 13.DWG
Drawing no.	C200-13-1
Rev	<b>A</b>





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LEGEND

EX BDY	EX BDY
PROP BDY	PROP BDY
EX MAJOR CONTOUR	EX MAJOR CONTOUR
EX MINOR CONTOUR	EX MINOR CONTOUR
PR MAJOR CONTOUR	PR MAJOR CONTOUR
PR MINOR CONTOUR	PR MINOR CONTOUR
PROP EXTENT WORK	PROP EXTENT WORK
PROP CLEANWATER	PROP CLEANWATER
PROP DIRTYWATER	PROP DIRTYWATER
PROP SILT FENCE	PROP SILT FENCE
PROP SUPER SILT FENCE	PROP SUPER SILT FENCE
PROP STOCKPILE	PROP STOCKPILE
PROP DECANT	PROP DECANT
PROP DECANT BAR	PROP DECANT BAR
STAGE BOUNDARY	STAGE BOUNDARY
EXISTING STREAM	EXISTING STREAM
EXISTING WETLAND	EXISTING WETLAND
10m STREAM SETBACK	10m STREAM SETBACK
RIPARIAN YARD	RIPARIAN YARD
20m SETBACK	20m SETBACK
WETLAND AREA	WETLAND AREA
100m SETBACK	100m SETBACK
EARTHWORKS CATCHMENT AREA	EARTHWORKS CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
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Project  
**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title  
**PROPOSED CONTOUR PLAN - STAGE 13**

Project no.	147007
Scale	1:2500 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 13.DWG
Drawing no.	C200-13-2
Rev	<b>A</b>

DATE: 14/05 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 13.DWG





EARTH WORKS (PROPOSED PGL SUBGRADE  
COMPARISON WITH SURFACE EGL -350mm STRIPPED)

CUT VOLUME 20,400 m<sup>3</sup>  
FILL VOLUME 17,800 m<sup>3</sup>  
NET CUT 2,600 m<sup>3</sup>

TOPSOIL STRIPPED (350mm) = 20,000 m<sup>3</sup>  
EARTHWORKS AREA = 57,200 m<sup>2</sup> / 5.72 Ha

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LEGEND

EX BDY  
PROP BDY  
PROP EXTENT WORK

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
		By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025



Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

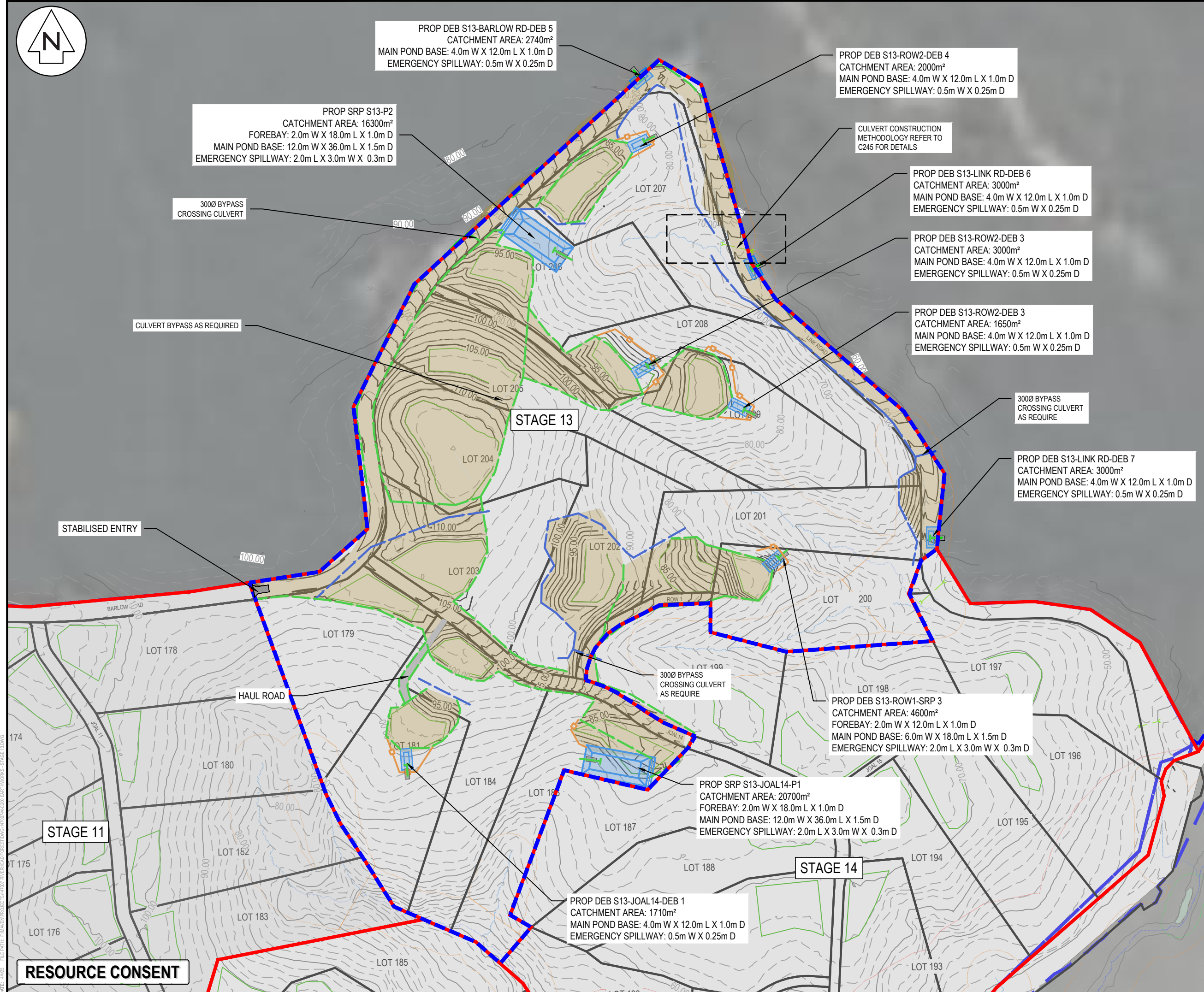
Title  
**PROPOSED  
CUT/FILL  
PLAN - STAGE 13**

Project no.	147007
Scale	1:2500 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 13.DWG
Drawing no.	C220-13-1
Rev	A

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
1	-5.000	-4.000	
2	-4.000	-3.000	
3	-3.000	-2.000	
4	-2.000	-1.000	
5	-1.000	0.000	
6	0.000	1.000	
7	1.000	2.000	
8	2.000	3.000	
9	3.000	4.000	
10	4.000	5.000	
























DATE: 14/05 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007M-C200 EARTHWORKS - STAGE 13.DWG





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  7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

- |   |                       |
|---|-----------------------|
|    | EX BDY                |
|    | PROP BDY              |
|    | EX MAJOR CONTOUR      |
|    | EX MINOR CONTOUR      |
|    | PR MAJOR CONTOUR      |
|    | PR MINOR CONTOUR      |
|    | PROP EXTENT WORK      |
|    | PROP CLEANWATER       |
|    | PROP DIRTYWATER       |
|    | PROP SILT FENCE       |
|    | PROP SUPER SILT FENCE |
|    | PROP STOCKPILE        |
|    | PROP DECANT           |
|    | PROP DECANT BAR       |
|    | STAGE BOUNDARY        |
|    | EXISTING STREAM       |
|    | EXISTING WETLAND      |
|    | 10m STREAM SETBACK    |
|    | RIPARIAN YARD         |
|    | 20m SETBACK           |
|   | WETLAND AREA          |
|  | 100m SETBACK          |
|  | EARTHWORKS            |
|   | CATCHMENT AREA        |

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LANDPRO	03/2023	
Design	HN	03/2025	
Drawn	MA	03/2025	
Checked	RW/KH	03/2025	



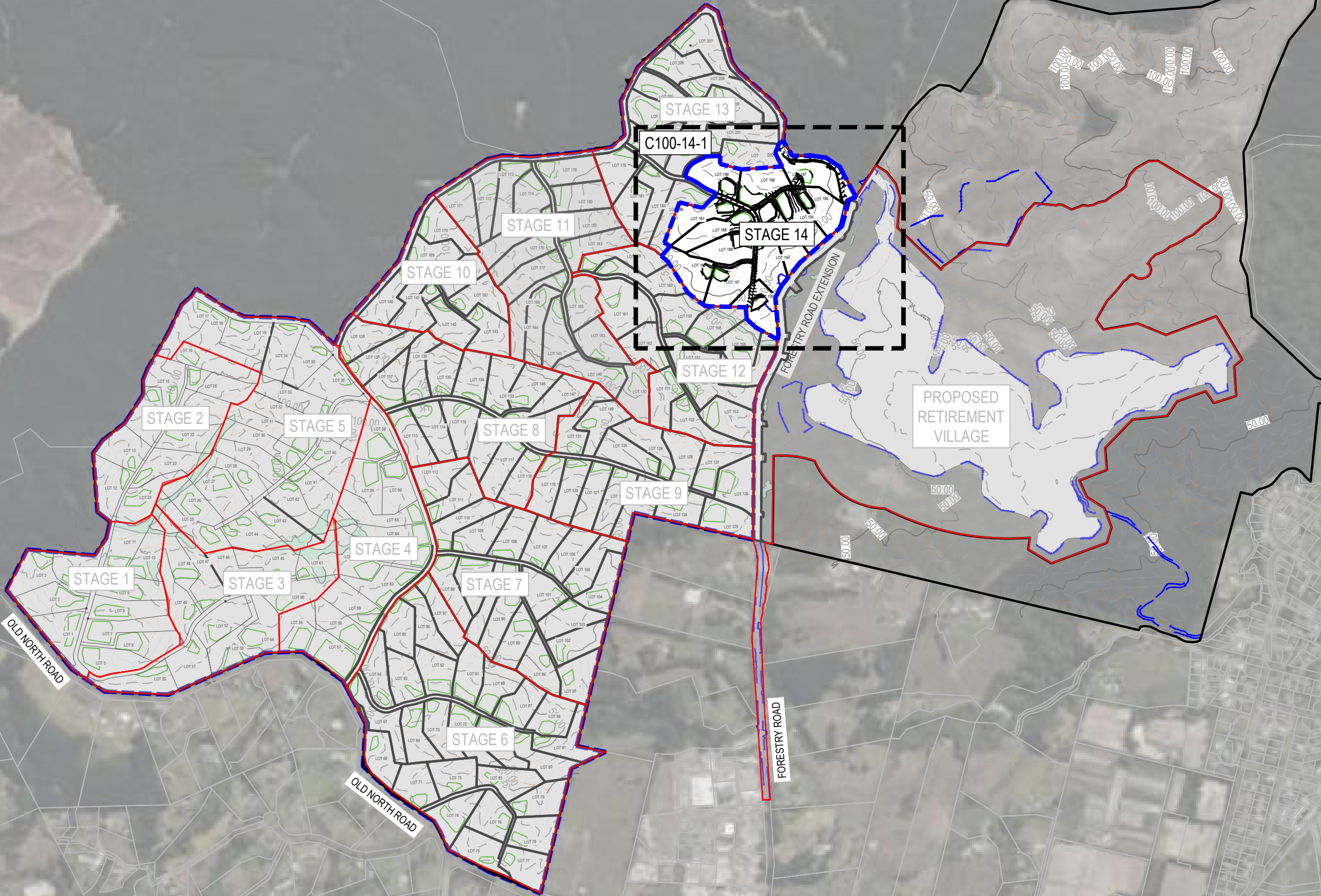
Project

**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED EROSION  
SEDIMENT CONTROL  
PLAN - STAGE 13**

Project no.	147007		
Scale	1:2500 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 13.DWG		
Drawing no.	C230-13-1	Rev	<b>A</b>





- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000.
  3. LEVELS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946.
  4. ORIGIN OF LEVELS = SM XXXX SO XXXX(XXXX) PUBLISHED RL=XX.XX, SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.
  5. BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

- LEGEND
- EX BDY
  - PROP BDY
  - EX MAJOR CONTOUR
  - EX MINOR CONTOUR
  - PR MAJOR CONTOUR
  - PR MINOR CONTOUR
  - PROP EXTENT WORK
  - PROP CLEANWATER
  - PROP DIRTYWATER
  - PROP SILT FENCE
  - PROP SUPER SILT FENCE
  - PROP STOCKPILE
  - PROP DECANT
  - PROP DECANT BAR
  - STAGE BOUNDARY
  - EXISTING STREAM
  - EXISTING WETLAND
  - 10m STREAM SETBACK
  - RIPARIAN YARD
  - 20m SETBACK
  - WETLAND AREA
  - 100m SETBACK
  - EARTHWORKS
  - CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025



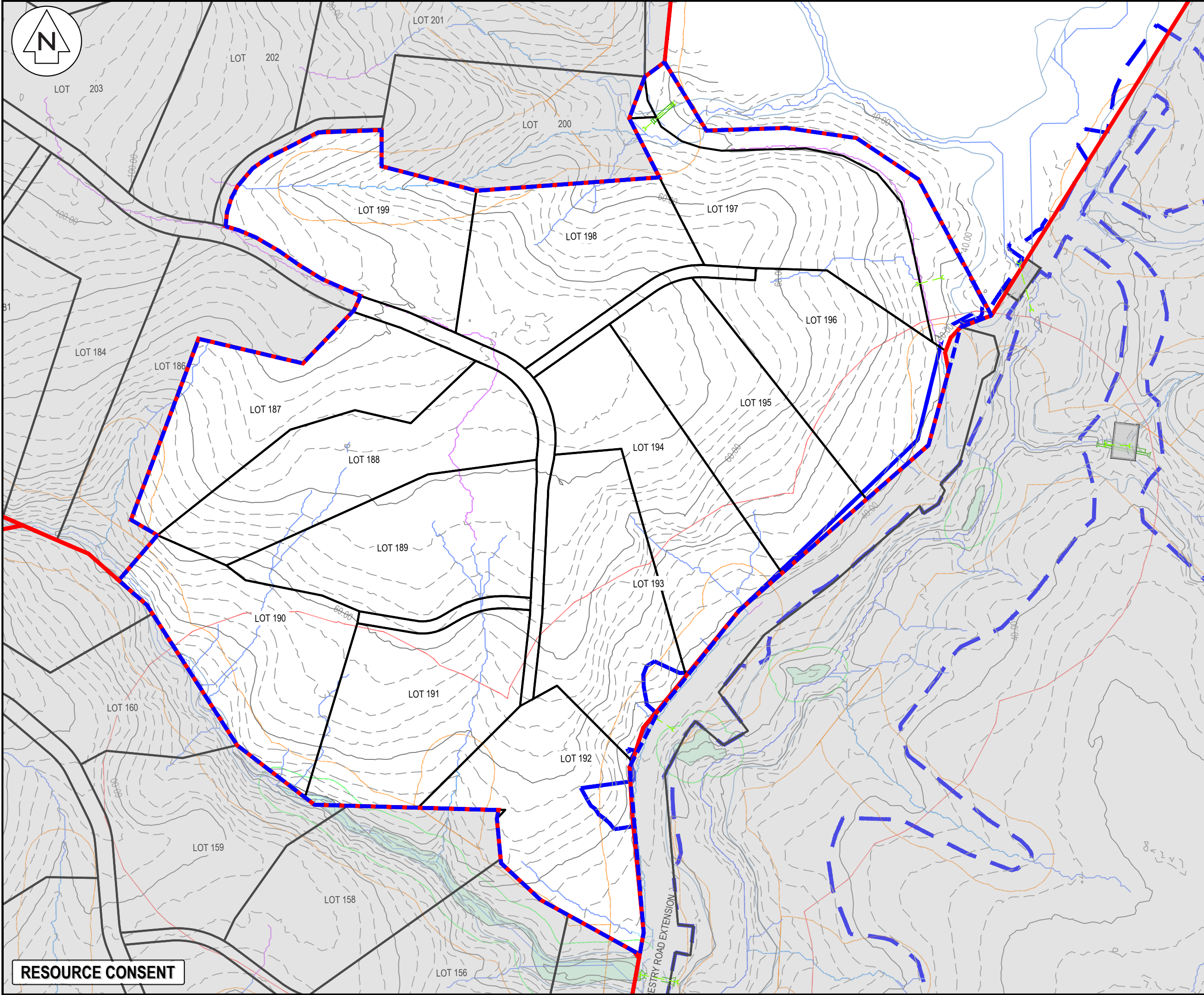
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOO PUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
EARTHWORKS  
OVERVIEW - STAGE 14**

Project no.	147007
Scale	1:10,000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 14.DWG
Drawing no.	C200-14-0
Rev	A

RESOURCE CONSENT





NOTES

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LEGEND

	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP SUPER SILT FENCE
	PROP STOCKPILE
	PROP DECANT
	PROP DECANT BAR
	STAGE BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND
	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS
	CATCHMENT AREA

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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Project

**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

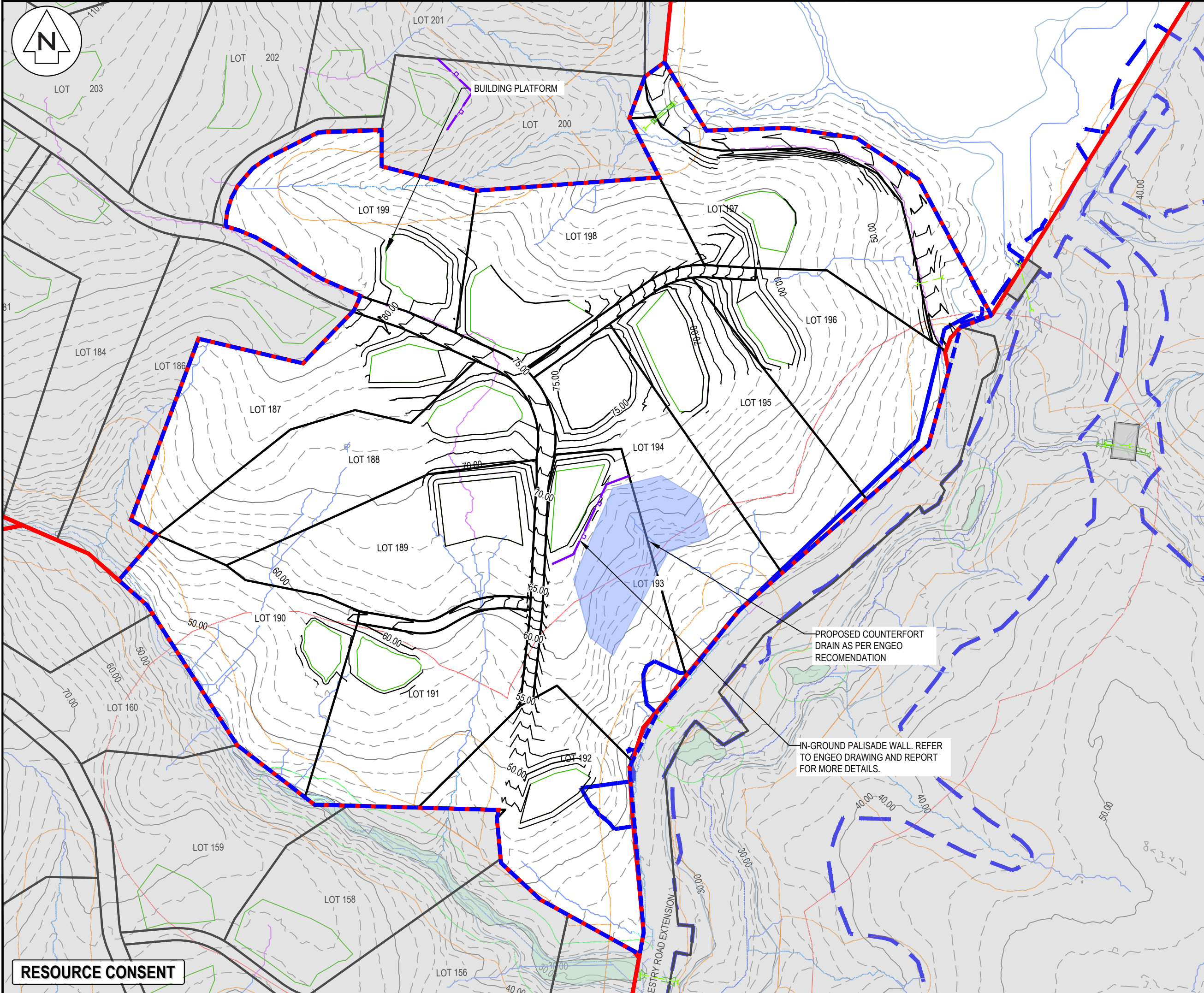
Title

**EXISTING CONTOUR PLAN - STAGE 14**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 14.DWG		
Drawing no.	C200-14-1	Rev	<b>A</b>

DATE: 14/03 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 14.DWG





NOTES

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LEGEND

EX BDY	PROP BDY
EX MAJOR CONTOUR	EX MINOR CONTOUR
PR MAJOR CONTOUR	PR MINOR CONTOUR
PROP EXTENT WORK	PROP CLEANWATER
PROP DIRTYWATER	PROP SILT FENCE
PROP SUPER SILT FENCE	PROP STOCKPILE
PROP DECANT	PROP DECANT BAR
STAGE BOUNDARY	EXISTING STREAM
EXISTING WETLAND	10m STREAM SETBACK
10m STREAM SETBACK	RIPARIAN YARD
20m SETBACK	WETLAND AREA
100m SETBACK	EARTHWORKS
CATCHMENT AREA	

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025

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Project  
**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

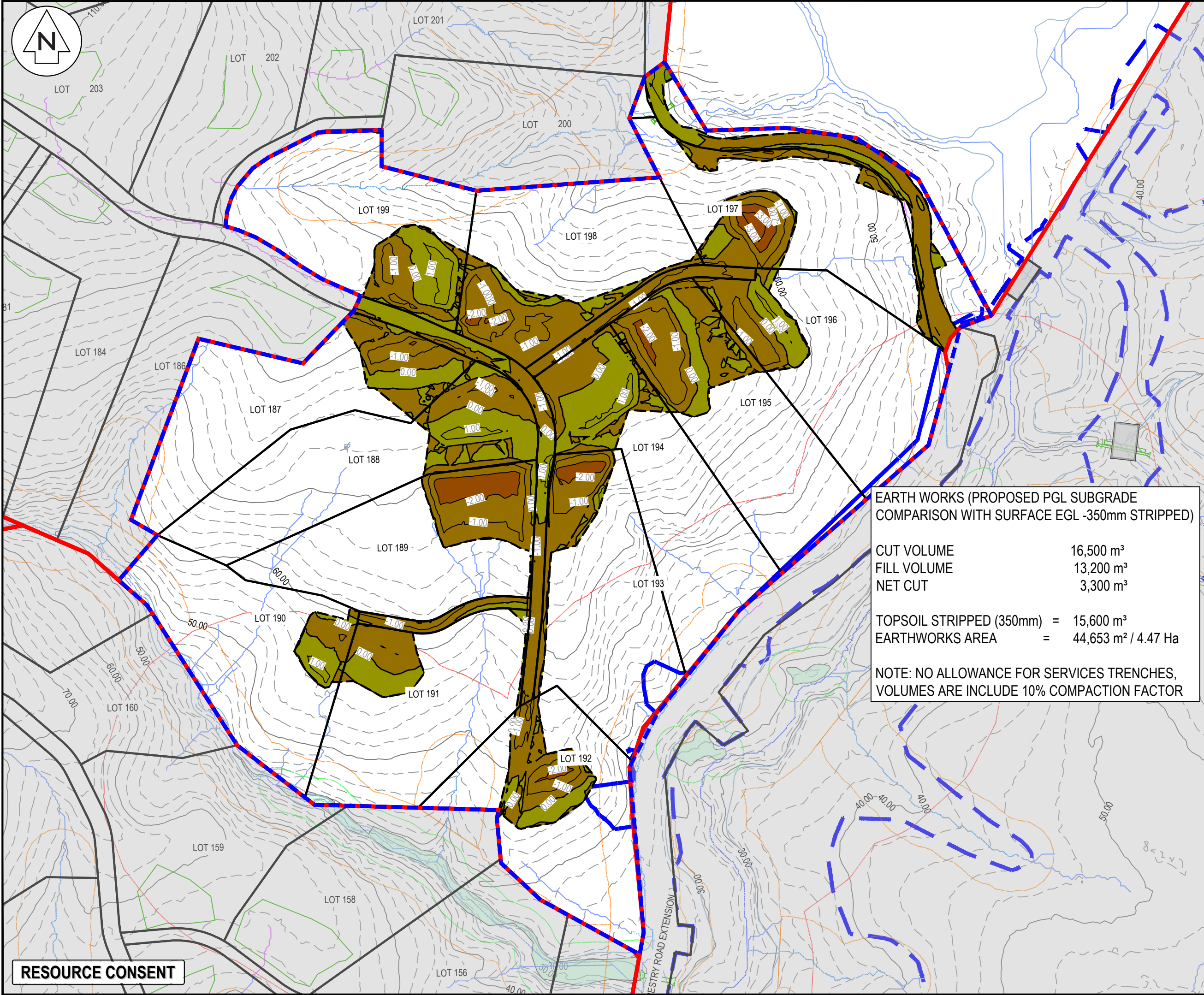
Title  
**PROPOSED EARTHWORKS CONTOUR PLAN - STAGE 14**

Project no.	147007		
Scale	1:2000 @ A3		
Cad file	147007-M-C200 EARTHWORKS - STAGE 14.DWG		
Drawing no.	C200-14-2	Rev	<b>A</b>

RESOURCE CONSENT

DATE: 14/05 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C200 EARTHWORKS - STAGE 14.DWG





- NOTES
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LEGEND

	EX BDY
	PROP BDY
	PROP EXTENT WORK

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
1	-6.000	-4.000	
2	-4.000	-2.000	
3	-2.000	0.000	
4	0.000	2.000	
5	2.000	4.000	
6	4.000	6.000	
7	6.000	8.000	
8	8.000	10.000	

EARTH WORKS (PROPOSED PGL SUBGRADE COMPARISON WITH SURFACE EGL -350mm STRIPPED)

CUT VOLUME 16,500 m³  
FILL VOLUME 13,200 m³  
NET CUT 3,300 m³

TOPSOIL STRIPPED (350mm) = 15,600 m³  
EARTHWORKS AREA = 44,653 m² / 4.47 Ha

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES, VOLUMES ARE INCLUDE 10% COMPACTION FACTOR

A	RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	HN		03/2025
Drawn	MA		03/2025
Checked	RW/KH		03/2025



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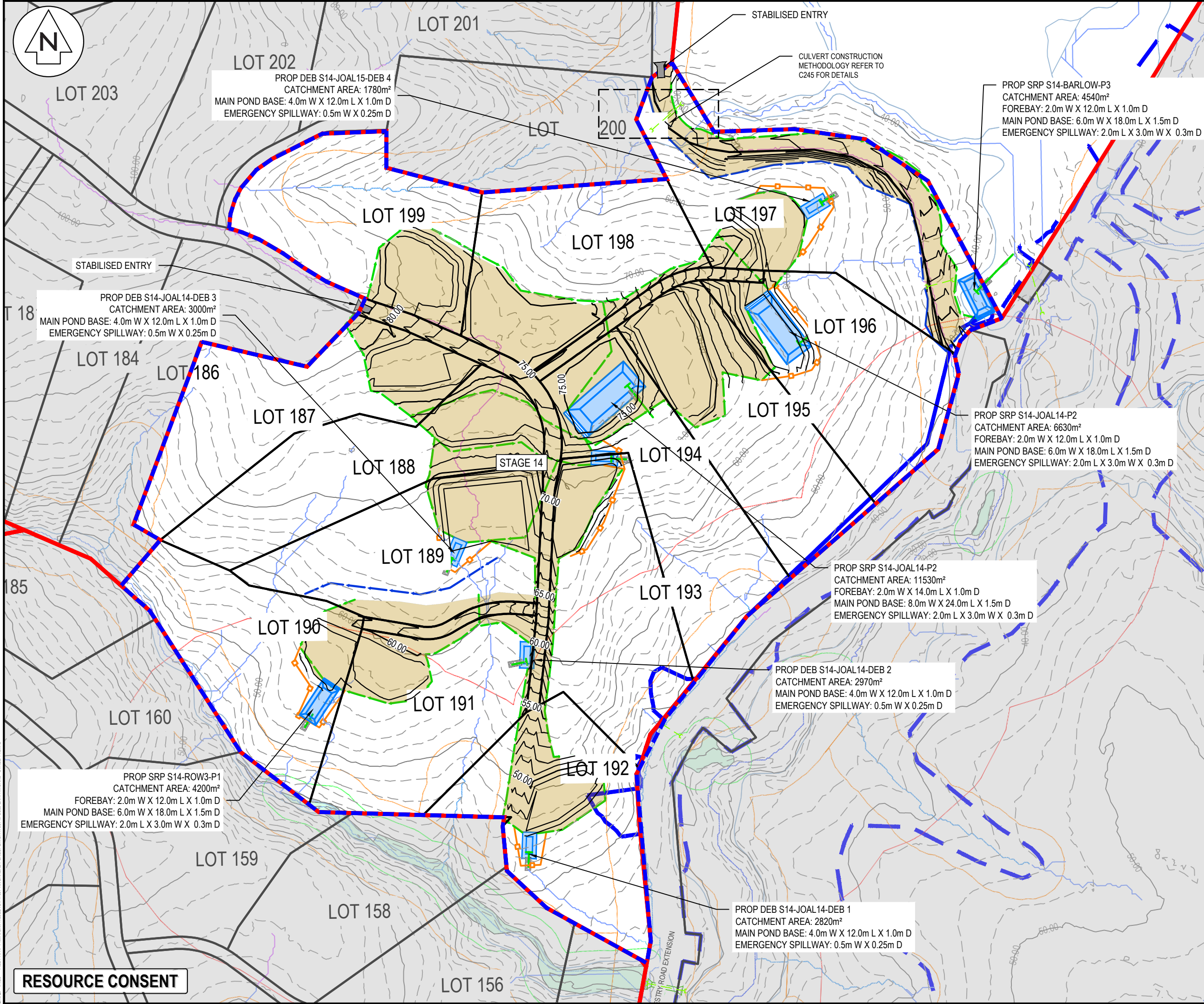
Project  
**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title  
**PROPOSED CUT/FILL PLAN - STAGE 14**

Project no.	147007
Scale	1:2000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 14.DWG
Drawing no.	C220-14-1
Rev	<b>A</b>

RESOURCE CONSENT





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LEGEND

	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP SUPER SILT FENCE
	PROP STOCKPILE
	PROP DECANT
	PROP DECANT BAR
	STAGE BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND
	10m STREAM SETBACK
	RIPARIAN YARD
	20m SETBACK
	WETLAND AREA
	100m SETBACK
	EARTHWORKS CATCHMENT AREA

A		RESOURCE CONSENT	MA	03/2025
Rev	Description	By	Date	
Survey	LANDPRO		03/2023	
Design	HN		03/2025	
Drawn	MA		03/2025	
Checked	RW/KH		03/2025	



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Project  
**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title  
**PROPOSED EROSION SEDIMENT CONTROL PLAN - STAGE 14**

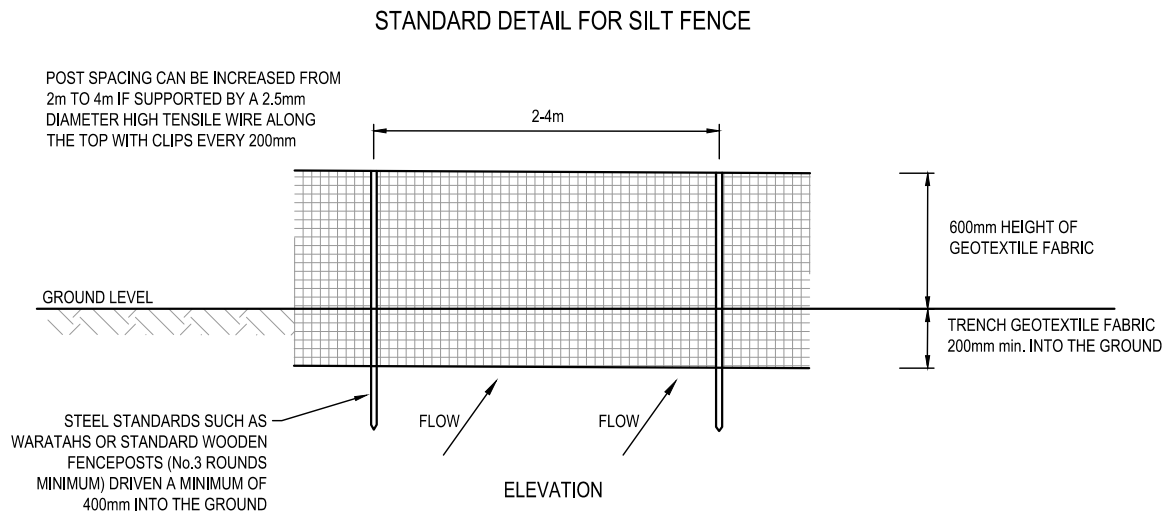
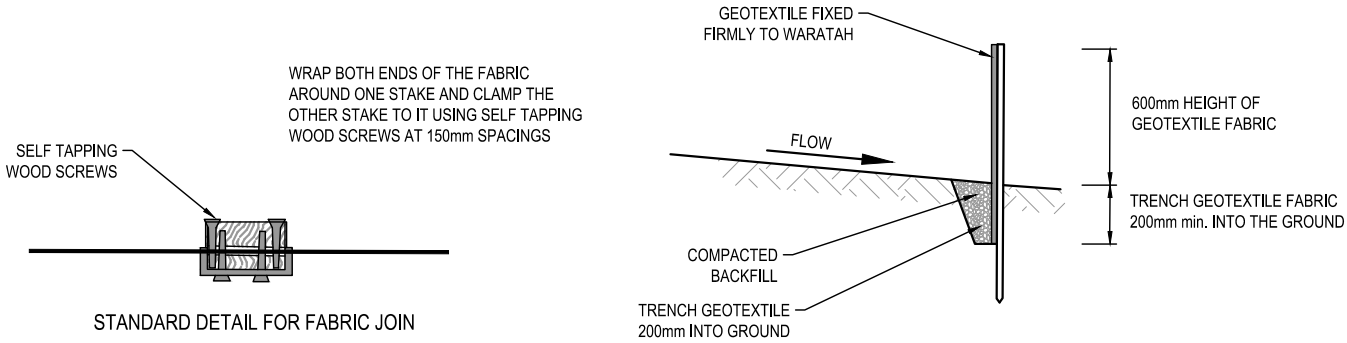
Project no.	147007
Scale	1:2000 @ A3
Cad file	147007-M-C200 EARTHWORKS - STAGE 14.DWG
Drawing no.	C230-14-1
Rev	<b>A</b>

**RESOURCE CONSENT**

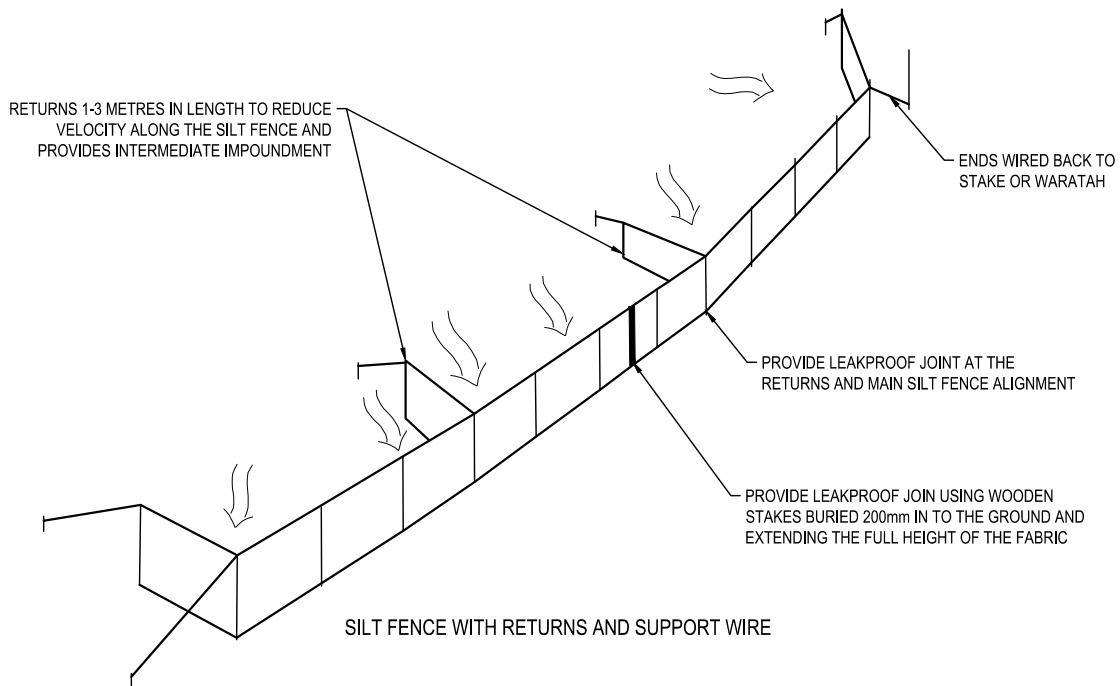
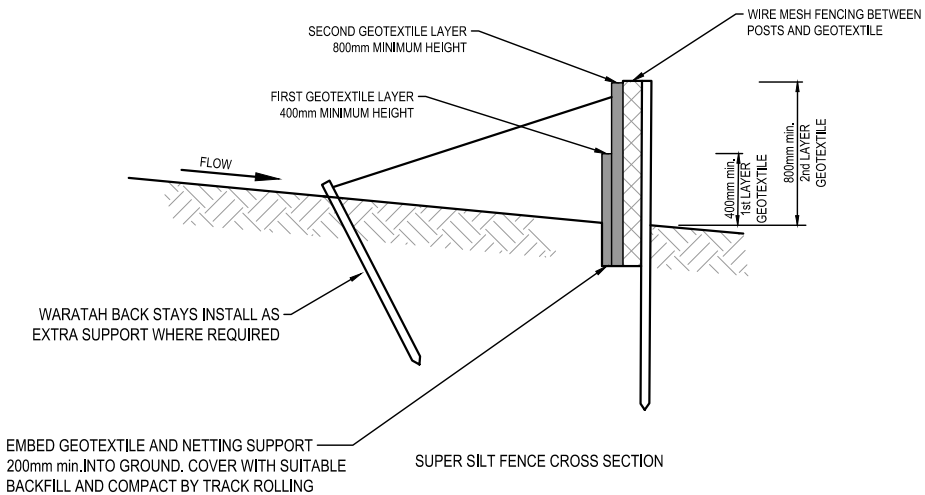
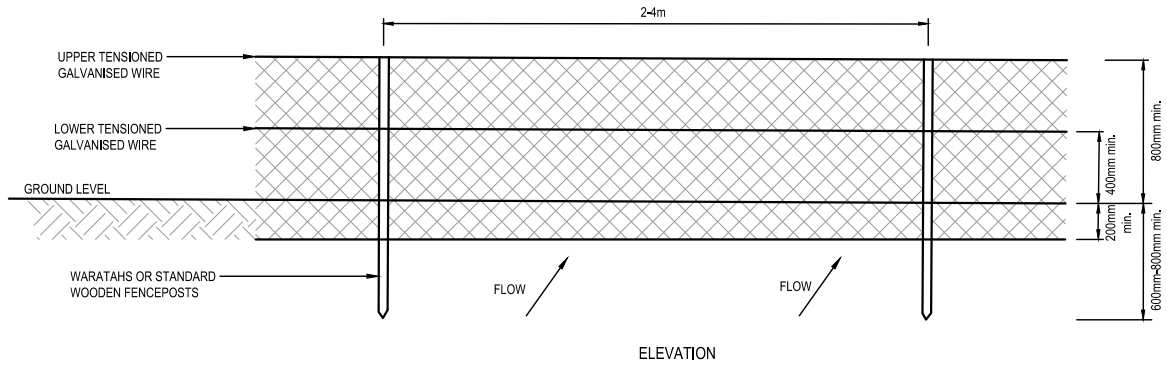
DATE: 14/03 FILE PATH: F:\MVEN\PROJECTS\147007 RIVERHEAD FOREST\147007-M-C200 EARTHWORKS - STAGE 14.DWG



DATE: 4/05 FILE PATH: \\MAVEN\MAVENCONSULTING\CD\NOSHARE\CURRENT\MAVEN\PROJECTS\147007 RIVERHEAD FOREST\DRAWING PRODUCTION\147007-M-C240 ESC STD DETAILS.DWG



SUPER SILT FENCE DETAIL



- NOTES
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A	RESOURCE CONSENT	MA	02/2025
Rev	Description	By	Date
Survey	--	--	----
Design	--	--	-
Drawn	MA		02/2025
Checked	RW/KH		03/2025

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Auckland 1023

Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

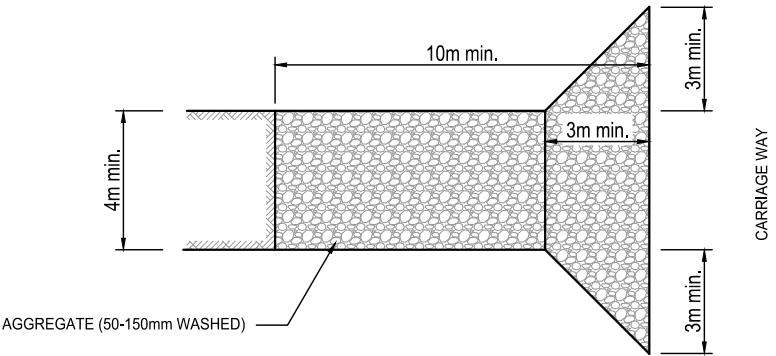
Title  
**PROPOSED SEDIMENT  
EROSION CONTROL  
DETAILS: SHEET 1**

Project no.	147007
Scale	N.T.S
Cad file	147007-M-C240 ESC STD DETAILS.DWG
Drawing no.	C240
Rev	<b>A</b>

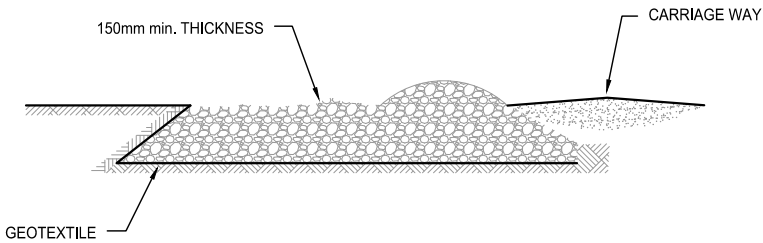
RESOURCE CONSENT



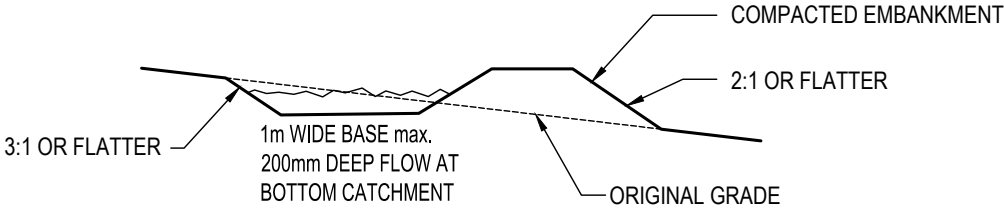
DATE: 4/05 FILE PATH: \\MAVEN\MAVENCONSULTING\CO NZ\SHARE\CURRENT\MAVEN\PROJECTS\147007 RIVERHEAD FOREST\DWG\DRAWING PRODUCTION\147007M-C240 ESC STD DETAILS.DWG



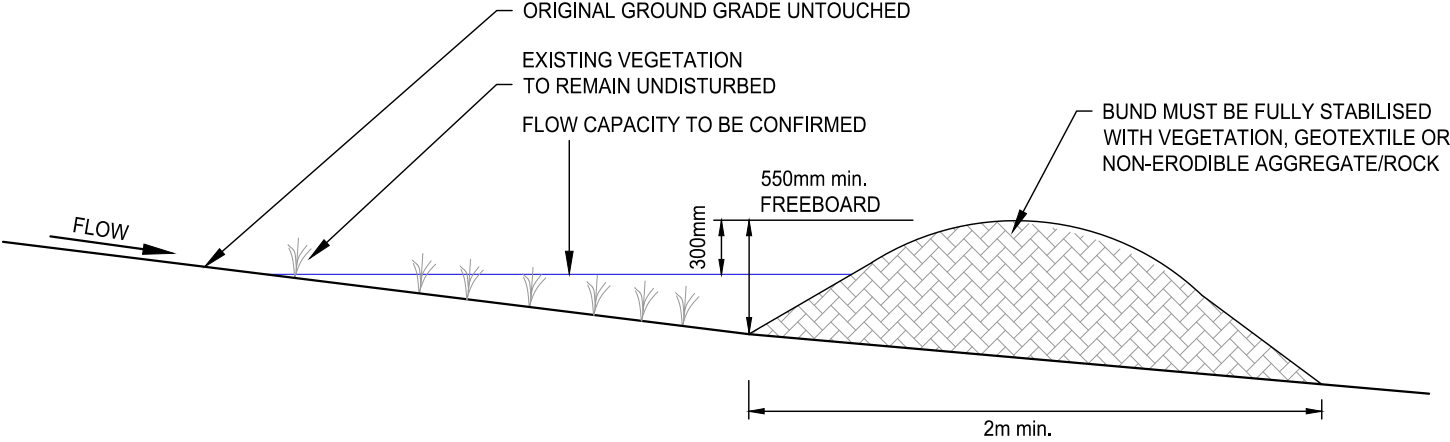
STABALISED VEHICLE ENTRANCE  
PLAN VIEW



STABALISED VEHICLE ENTRANCE DETAIL  
SIDE ELEVATION



TYPICAL CROSS SECTION OF A RUNOFF DIVERSION  
TYPICAL DIMENSIONS UNLESS OTHERWISE NOTED



CLEAN WATER DIVERSION BUND DETAIL

RESOURCE CONSENT

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A	RESOURCE CONSENT	MA	02/2025
Rev	Description	By	Date
		By	Date
Survey	--	--	----
Design	--	-	
Drawn	MA		02/2025
Checked	RW/KH		03/2025

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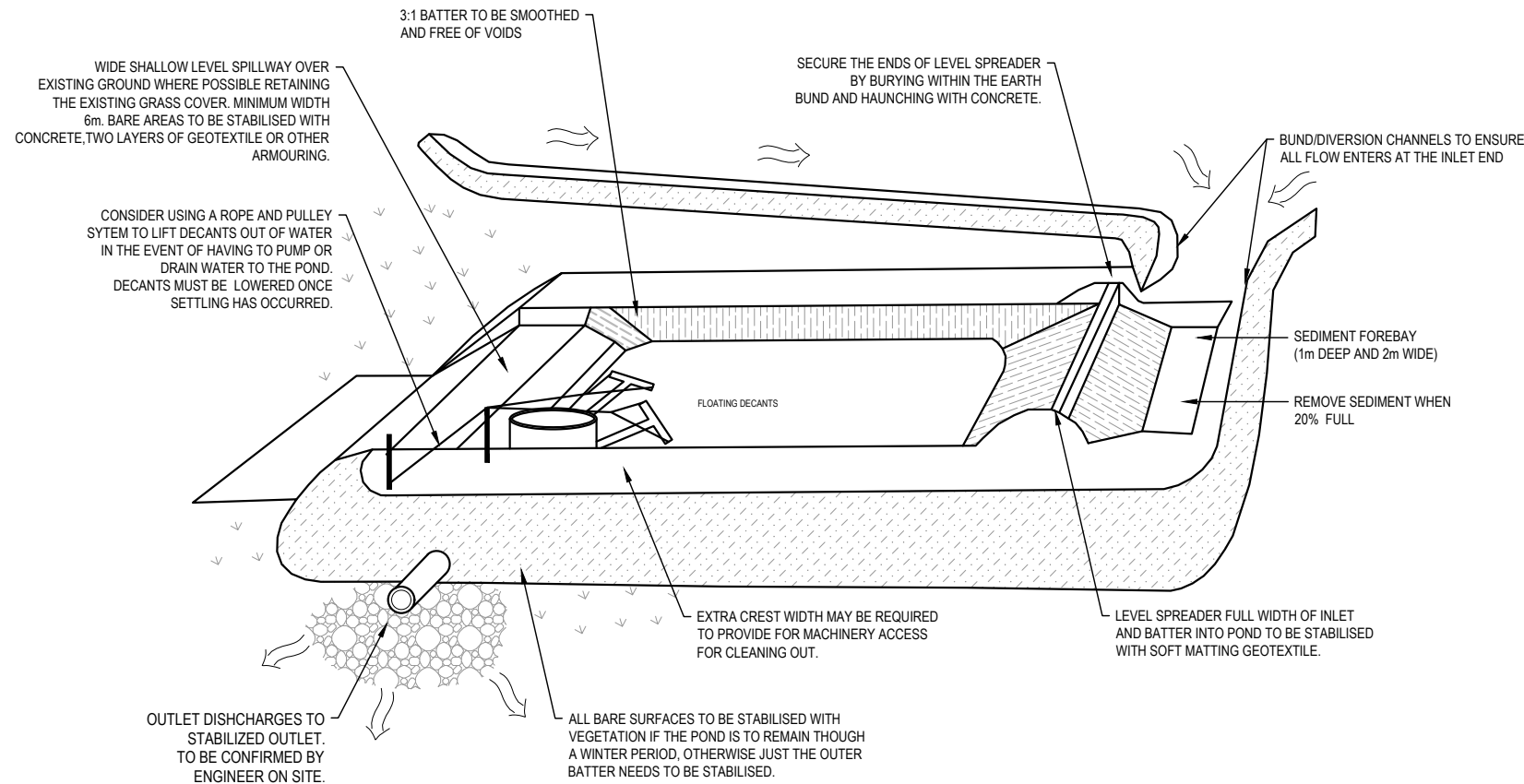
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED SEDIMENT  
EROSION CONTROL  
DETAILS: SHEET 2**

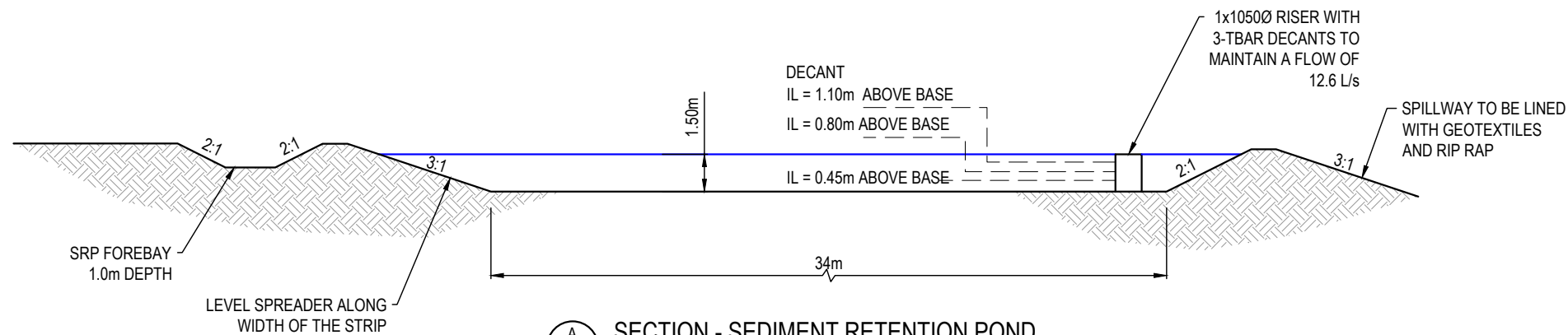
Project no.	147007
Scale	N.T.S
Cad file	147007-M-C240 ESC STD DETAILS.DWG
Drawing no.	C241
Rev	A



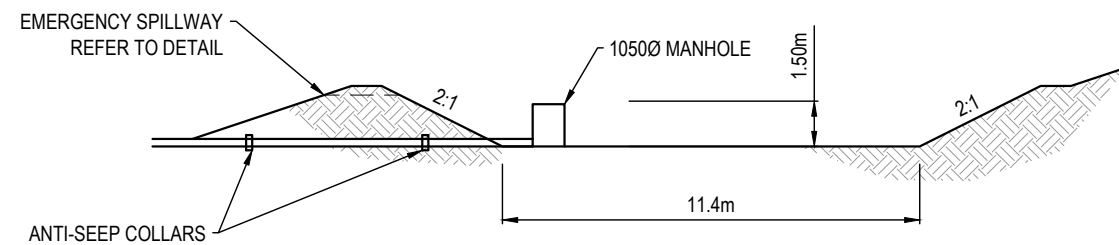
DATE: 4/05 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CD\N2\HARDCURRENT\MAVEN\PROJECTS\147007 RIVERHEAD FOREST\DRAWING PRODUCTION\147007M-C240 ESC STD DETAILS.DWG



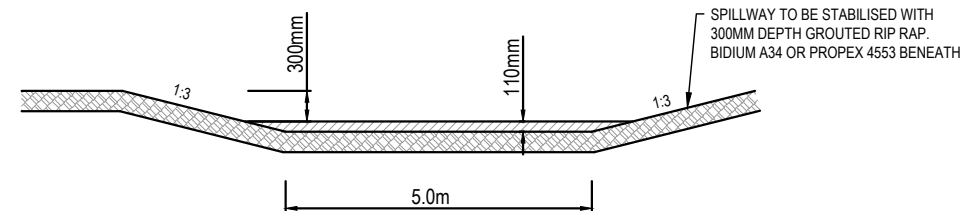
SEDIMENT POND DETAILS  
(NTS)



A SECTION - SEDIMENT RETENTION POND  
SCALE: N.T.S



B SECTION - SEDIMENT RETENTION POND  
SCALE: N.T.S



DETAIL I  
EMERGENCY SPILLWAY

- NOTES
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A	RESOURCE CONSENT	MA	02/2025
Rev	Description	By	Date
Survey	--	--	--
Design	--	--	--
Drawn	MA		02/2025
Checked	RW/KH		03/2025

**M** Maven Associates  
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Project  
**DEVELOPMENT OF  
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PARTNERSHIP**

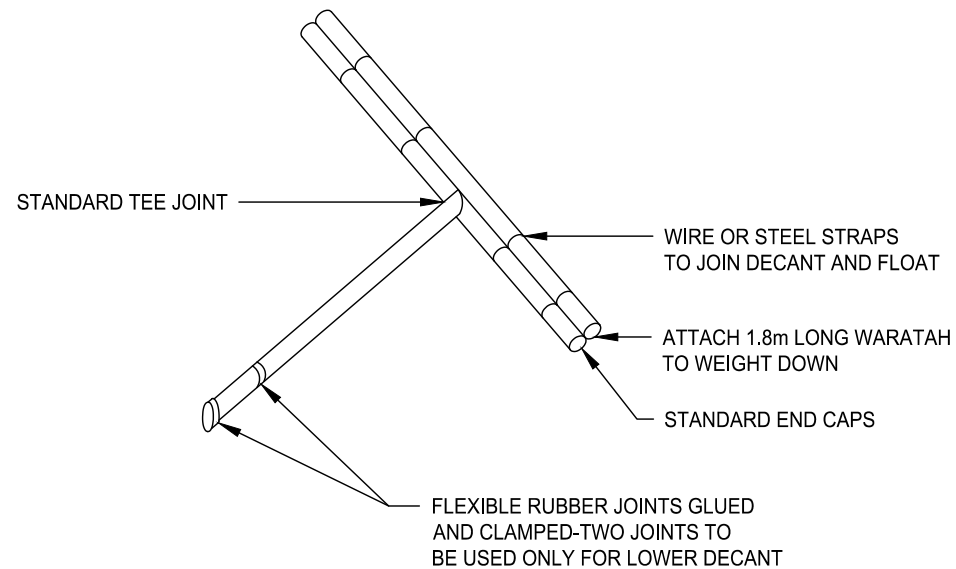
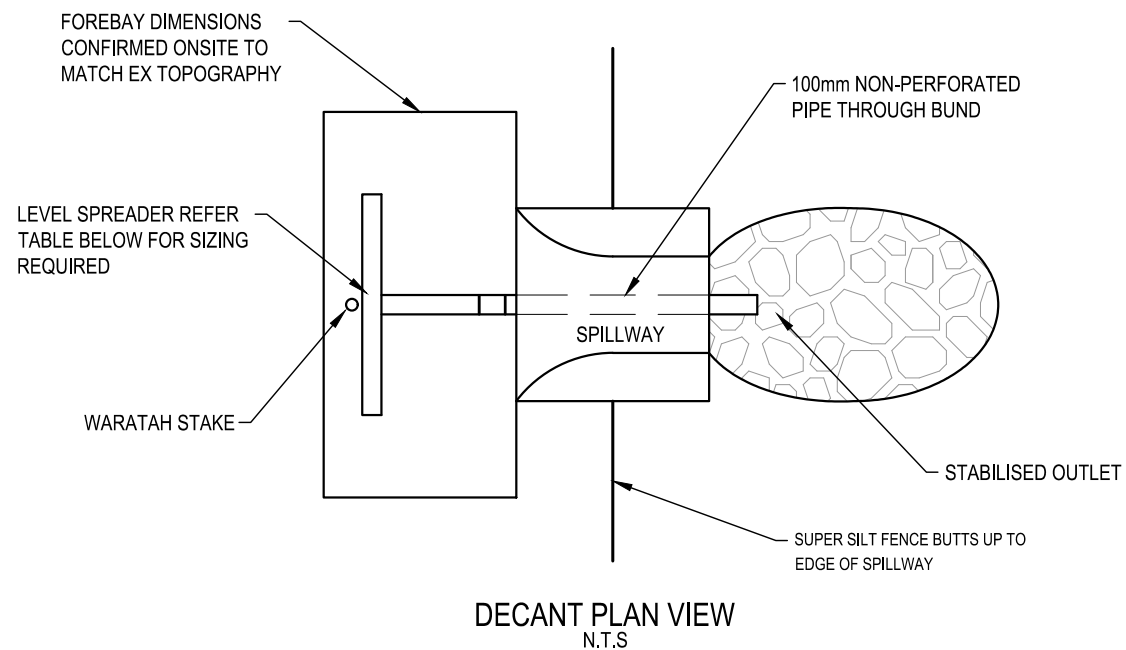
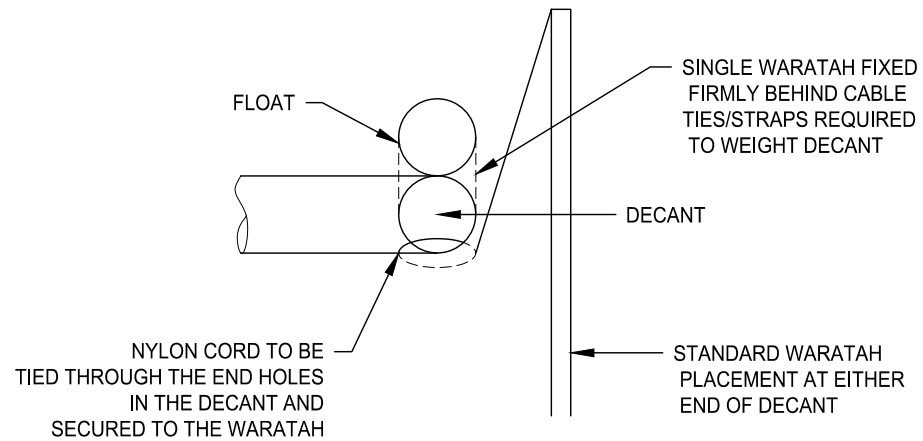
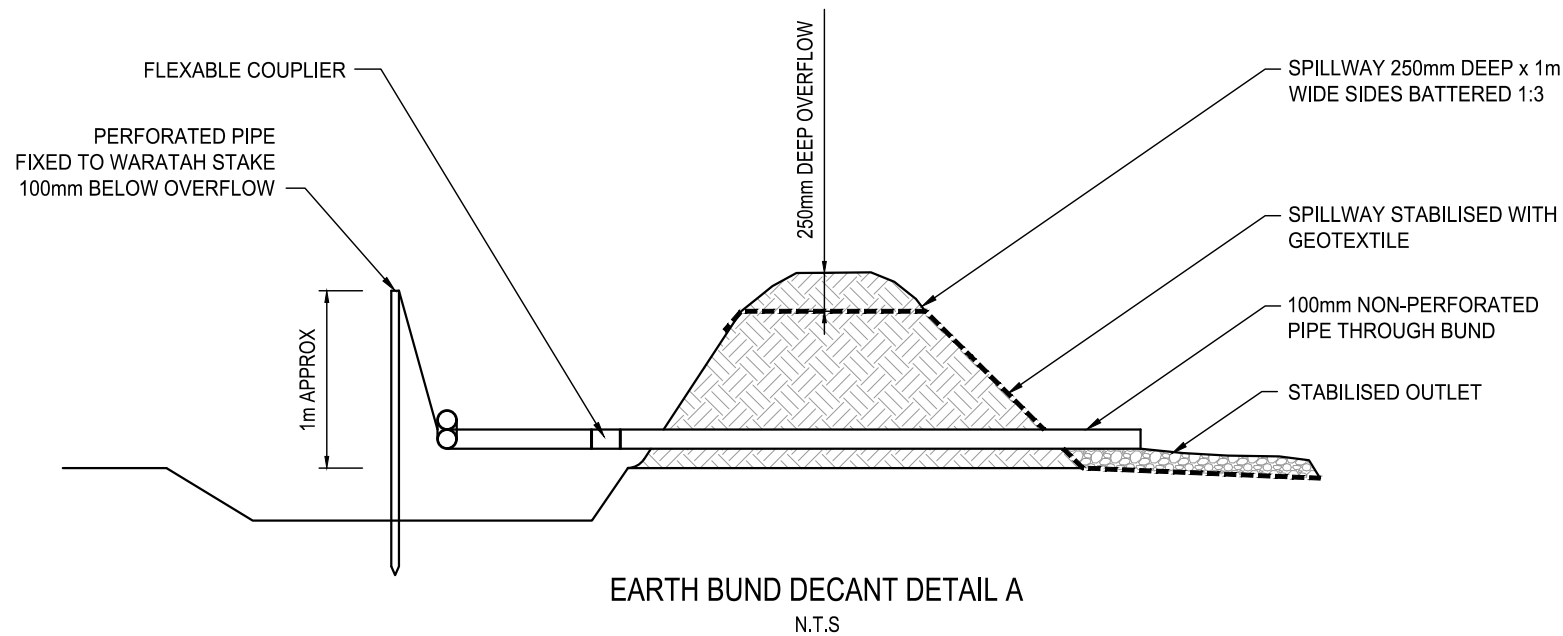
Title  
**PROPOSED SEDIMENT  
EROSION CONTROL  
DETAILS: SHEET 3**

Project no.	147007
Scale	N.T.S
Cad file	147007-M-C240 ESC STD DETAILS.DWG
Drawing no.	C242
Rev	A

RESOURCE CONSENT



DATE: 4/05 FILE PATH: \\MAVEN\MAVENCONSULTING\CD\NOSHARE\CURRENT\MAVEN\PROJECTS\147007 RIVERHEAD FOREST\DRAWING PRODUCTION\147007-M-C240 ESC STD DETAILS.DWG



LEVEL SPREADER DESIGN CRITERIA (20 YEAR STORM EVENT)				
DESIGN FLOW (m <sup>3</sup> /sec)	INLET WIDTH (m)	DEPTH (m)	END WIDTH (m)	LENGTH (mm)
0-0.3	3	150	1	3
0.3-0.6	5	180	1	7
0.6-0.9	7	220	1	10

RESOURCE CONSENT

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A	RESOURCE CONSENT	MA	02/2025
Rev	Description	By	Date
		By	Date
Survey	--	--	----
Design	--	-	
Drawn	MA		02/2025
Checked	RW/KH		03/2025

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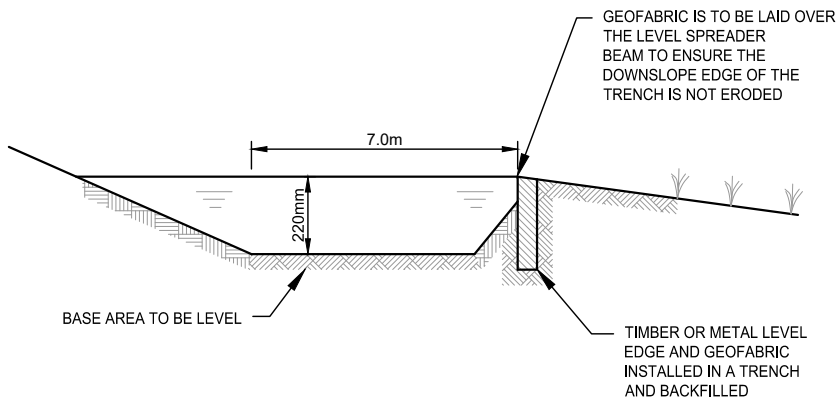
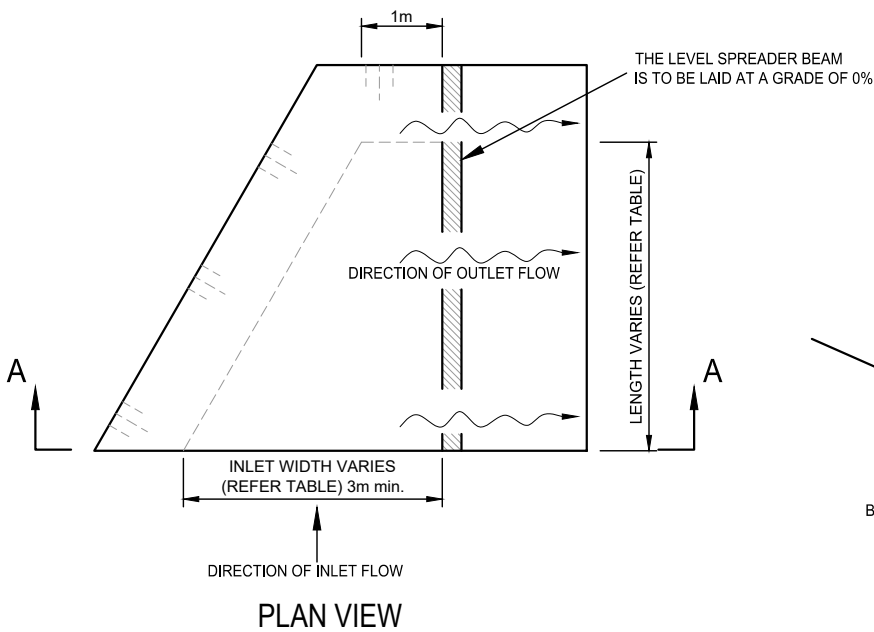
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED SEDIMENT  
EROSION CONTROL  
DETAILS: SHEET 4**

Project no.	147007
Scale	N.T.S
Cad file	147007-M-C240 ESC STD DETAILS.DWG
Drawing no.	C243
Rev	<b>A</b>

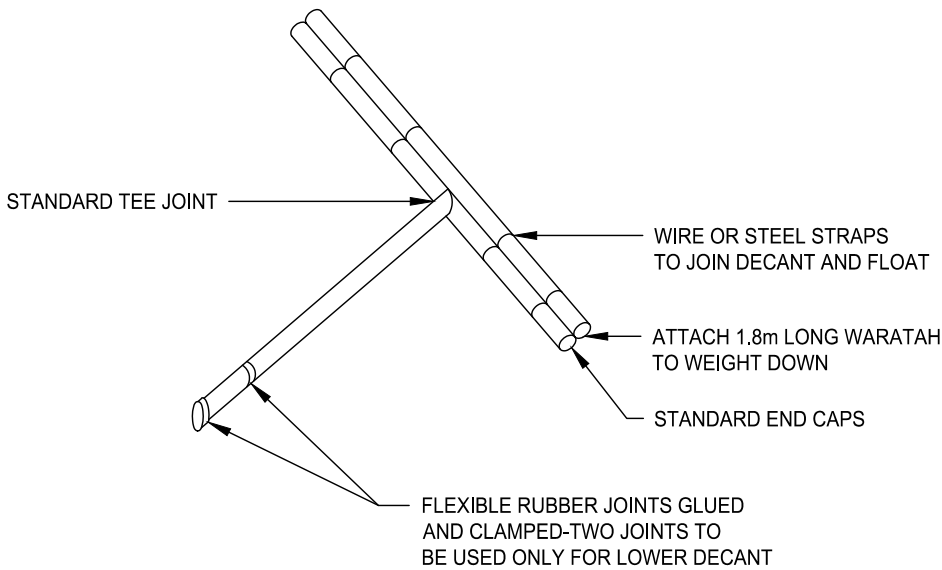
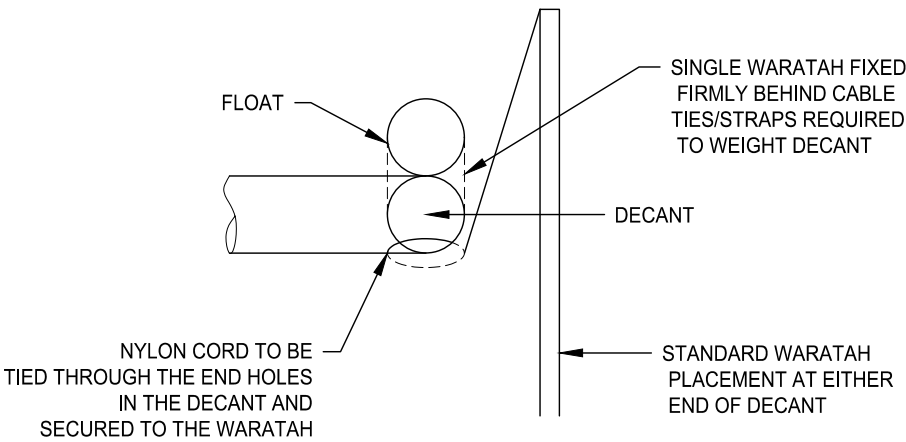


DATE: 4/05 FILE PATH: \\MAVEN\MAVENCONSULTING\CD\NOSHARE\CURRENT\MAVEN\PROJECTS\147007 RIVERHEAD FOREST\DRAWING PRODUCTION\147007M-C240 ESC STD DETAILS.DWG



SECTION A-A

LEVEL SPREADER DESIGN CRITERIA (20 YEAR STORM EVENT)				
DESIGN FLOW (m <sup>3</sup> /sec)	INLET WIDTH (m)	DEPTH (m)	END WIDTH (m)	LENGTH (mm)
0-0.3	3	150	1	3
0.3-0.6	5	180	1	7
0.6-0.9	7	220	1	10



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
  2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  3. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
  4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
  5. SEDIMENT CONTROL SHALL BE INSTALLED AND OPERATIONAL BEFORE EARTHWORKS START ONSITE IN ACCORDANCE WITH COUNCIL STANDARDS.
  6. CONTRACTOR SHALL PROVIDE ASBUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECENT VOLUMES TO ENGINEER.
  7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

A	RESOURCE CONSENT	MA	02/2025
Rev	Description	By	Date
		By	Date
Survey	--	--	----
Design	--	-	
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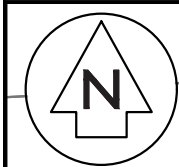
Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
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PARTNERSHIP**

Title  
**PROPOSED SEDIMENT  
EROSION CONTROL  
DETAILS: SHEET 5**

Project no.	147007
Scale	N.T.S
Cad file	147007-M-C240 ESC STD DETAILS.DWG
Drawing no.	C244
Rev	<b>A</b>

RESOURCE CONSENT





PUMP1 DISCHARGE CLEAN WATER TO DOWN STREAM  
3mm SCREEN ON INLET

FISH EXCLUSION NET

UPSTREAM DAM - STEEL ROAD  
PLATES DRIVEN INTO STREAM BED.  
OVERLAP 300-400mm WIDTH TO  
EXTEND 1m EITHER SIDE OF  
CURRENT WATER LEVEL

EARTHWORKS OF UPGRADING EXISTING CULVERT1 TO BOX CULVERT TO BE CARRIED OUT DURING DRY WEATHER SEASON

PUMP UPSTREAM WATER AND DEWATER UNDER SUPERVISION OF THE PROJECT ECOLOGIST INCLUDING ANY FISH RELOCATION IF REQUIRED.

REMOVE EXISTING CULVERT, UNDERCUT THE STREAMBED AND BACKFILL WITH GAP65 AS DIRECTED, PREP STREAMBED FOR PLACEMENT OF NEW CULVERT, INSTALL RIPRAP. CLOTH ANY SIDES OF THE STREAM WHICH ARE EARTHWORKED, TO ENSURE NO SEDIMENT GENERATED RISK

IN 2-YR OR ABOVE RAINFALL EVENT, DAMS TO BE REMOVED. STREAM STABILISED AND WORKS TO COMMENCE AFTER EVENT HAS PASSED. ALL STREAMWORKS TO BE DONE IN ACCORDANCE WITH THE MAVEN ASSOCIATES STREAM WORKS MANAGEMENT PLAN, AND UNDER ENGINEER'S SUPERVISION

COFFERDAM TO BE REMOVED AFTER CULVERT REPLACED. AND REINSTATE NORMAL FLOWS TO THE STREAM

FINAL METHODOLOGY SUBJECT TO CONTRACTOR INPUT AND FINAL STREAM WORK MANAGEMENT AS PER CONDITION OF CONSENT GRANTED

PUMP2 DEWATER TO DEB

FISH EXCLUSION NET

DOWN STREAM DAM  
STEEL ROAD PLATES DRIVEN INTO  
STREAM BED 300-400mm OVERLAP AS  
REQUIRED TO ACHIEVE WIDTH 1m  
BEYOND CURRENT WATER LEVEL

UPGRADE EXISTING CULVERT  
INDICATIVE

PROPOSED TYPICAL STREAM-WORKS METHODOLOGY PLAN

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
  2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  3. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
  4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
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  6. CONTRACTOR SHALL PROVIDE ASBUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECANT VOLUMES TO ENGINEER.
  7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND	
	EX BDY
	PROP BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PROP EXTENT WORK
	PROP CLEANWATER
	PROP DIRTYWATER
	PROP SILT FENCE
	PROP DECANT
	PROP DECANT BAR

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Title

**PROPOSED TYPICAL  
STREAM-WORKS  
METHODOLOGY**

Project no.	147007		
Scale	N.T.S		
Cad file	147007-M-C245 ESC STD DETAILS.DWG		
Drawing no.	C245	Rev	A

RESOURCE CONSENT