

25 050

29 August 2025

Pohuehue Community Housing Ltd.
C/- David Hay
Osborne Hay (North) Ltd.
PO Box 16
Warkworth
Auckland 0941

Attention: David Hay

Re: Response to Request for Further Information – Section 92 RMA

Application: BUN60453420 (LUC60453421 and DIS60453422)

Dear David,

We write in response to Council's Section 92 Request for Further Information (dated 13 August 2025) for the above application. The following responses address items 2, 5, 6, 7, 8, 11, and 16–20 of the request.

The drawing set has been amended to reflect any changes resulting from responses below and is included in Appendix A.

Q2. An erosion and sediment control plan has been noted within the submitted AEE as having been prepared, however, it cannot be located in the application documents. Please provide this.

Response:

An Erosion and Sediment Control Plan (ESCP) has been prepared in accordance with Auckland Council's GD05 guidelines. The plan includes silt fencing and super silt fencing where required. A clean water diversion bund has been considered as not suitable where catchment slopes exceed 50m in length as the effects of constructing a diversion bund through the existing pine nut trees for a short construction period is not suitable.

The ESCP is provided on drawing ESCP-01 in Appendix A.

Q5. Please clarify whether the wastewater treatment system tanks will require earthworks for installation. If yes, please update "Earthworks Plan" Drawing No. GEO-04 to include their location.

Response:

Yes, the installation of the wastewater treatment tanks will require localised excavation. The required volumes have been calculated and added to the overall earthworks quantities. Their locations are shown on the updated Earthworks Plan GEO-04-05 Rev C.

Q6. Please clarify whether the water tanks to be installed will require earthworks. If yes, please update "Earthworks Plan" Drawing No. GEO-04 to include their location.

Response:

Yes, water storage tanks will require minor excavations for foundations and placement. As the tanks are proposed to be above ground only minor earthworks is required. These locations and approximate associated volumes have been added to the revised Earthworks Plan GEO-04-05 Rev C.

Q7. Please provide an expected duration of earthworks.

Response:

The total duration of earthworks is expected to be 8–12 weeks, subject to weather conditions. Works for the driveway will be carried out first to allow access for the trucks delivering the transportable homes.

Q8. Please clarify whether the construction of the timber piles will meet the definition of earthworks under Chapter J of the AUP(OP). If so, please amend “Earthworks Plan” Drawing No. GEO-04 and Drawing No. GEO-05 to include their location and amend the total earthworks quantities to include them.

Response:

The timber piles will be installed using localised drilling and are expected to slightly exceed 250mm diameter and therefore meet the AUP(OP) definition of earthworks. The minor additional excavation volumes are now included in the total earthworks quantities on drawing Earthworks Plan GEO-04-05 Rev C.

Q11. The Council’s traffic engineer considers that parking on gradients greater than 5.0% is not appropriate ... Please either provide additional assessment ... or make the necessary amendments.

Response:

The parking layout and vertical geometry has been reviewed and emended. The two spaces with cross gradients exceeding 7.5% have been adjusted through minor regrading of the section CH20-CH30. Updated gradient is shown on Long Section LS-01 Rev C.

Q16. Please state very clearly what treatment system is proposed.

Response:

The proposal is for two existing Innoflow Advantex AX40 to be relocated. Parts to be replaced as required if relocation is not achievable. The proposed system is to have one additional AX40 system installed. This system is designed to achieve secondary treatment standards in accordance with AS/NZS 1547 and Auckland Council TP58 requirements.

Q17. If an existing system is to be used, please provide water quality testing results.

Response:

The existing wastewater maintenance company are sampling and testing currently. Results will be provided once they are available.

Q18. There are only two boreholes in the wastewater disposal fields ... Please address this.

Response:

An additional 13 boreholes have been carried out. Due to the consistency of results, further boreholes are considered to be excessive. The soil category allocated is also conservative. Logs of the additional boreholes are provided in Appendix B and locations of additional boreholes are included in Appendix A – Site Investigation Plan GEO-02 and W-01.

Q19. It has not been demonstrated that the reserve field is at least 15m away from surface water features, such as overland flow paths and the pond. If the field is to be closer than 15m, a tertiary system installed could be used, which would reduce the distance required to 10m. Please address this

Response:

The reserve disposal field has been reconfigured to achieve a minimum 15 m setback from surface water features. This is shown on the updated **Wastewater and Stormwater Plan W-01 Rev C**. The Reserve area has been reduced to 80% of the primary field area.

Q20. The submitted wastewater report states that the PCDI will be subsurface, but in the checklist it states that it will be along the surface. Please confirm.

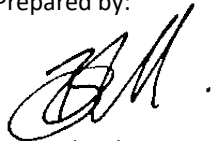
Response:

The Pressure Compensating Drip Irrigation (PCDI) system will be subsurface only. The checklist has been corrected and is included in Appendix C to align with the report.

Conclusion

We trust the above responses and the attached revised plans and reports address the matters raised. Please let us know if any additional clarification is required.

Prepared by:



Ben Richardson
Intermediate Engineer
NZDE (Civil), MEngNZ

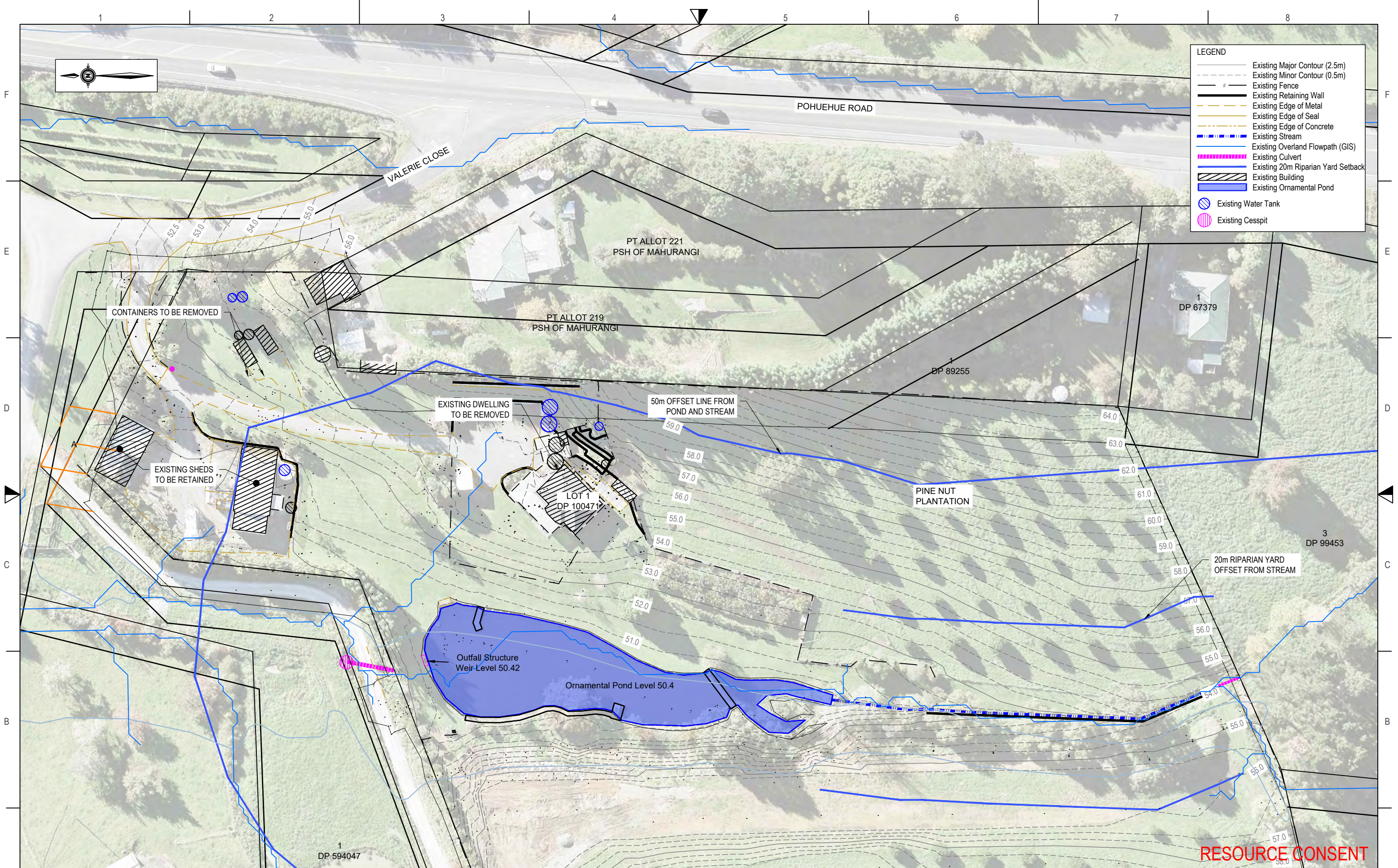
Approved by:



Jamie Black
Senior Engineer
NZDE (Civil), MEngNZ

Enclosed:

- Appendix A – Revised Drawing Set
- Appendix B – Additional Borehole logs
- Appendix C – Revised TP58 checklist



LEGEND	
	Existing Major Contour (2.5m)
	Existing Minor Contour (0.5m)
	Existing Fence
	Existing Retaining Wall
	Existing Edge of Metal
	Existing Edge of Seal
	Existing Edge of Concrete
	Existing Stream
	Existing Overland Flowpath (GIS)
	Existing Culvert
	Existing 20m Riparian Yard Setback
	Existing Building
	Existing Ornamental Pond
	Existing Water Tank
	Existing Cesspit

RESOURCE CONSENT

Rev	Date	Description	By	Checked
A	27/05/2025	1st ISSUE	AS	JB
B	13/06/2025	RESOURCE CONSENT	AS	BR
C	28/08/2025	RPI RESPONSE	BR	JB

DWG EXISTING SITE PLAN

A3 SCALE 1:750

0 15m 37.5m

Date 27/05/2025

Drawn AS Checked BR Approved JB

File T:\CLIENTS\POHUEHUE COMMUNITY HOUSING LIMITED\25 050 - 1695 POHUEHUE ROAD, POHUEHUE\ENGINEERING\DRAWINGS\25_050_1695 POHUEHUE ROAD_EARTHWORKS.DWG

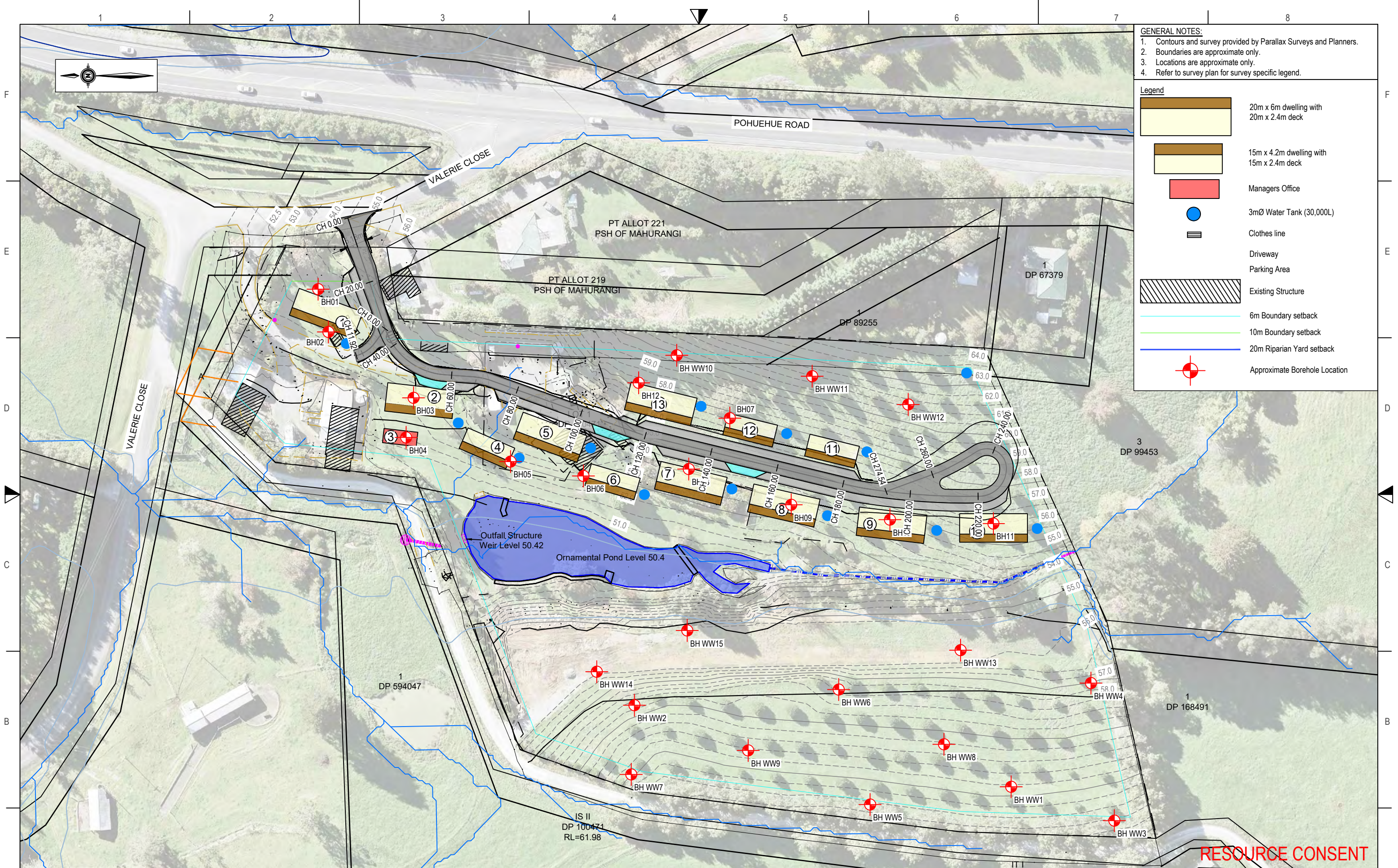
HAIGH WORKMAN
Civil & Structural Engineers

6 Fairway Drive
Kerikeri, B01

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E: info@haighworkman.co.nz

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Client	Pohuehue Community Housing Ltd	Dwg No.	GEO-01
Project No.	25 050	Sheet No.	1 of 12
RC no.			



- GENERAL NOTES:**
1. Contours and survey provided by Parallax Surveys and Planners.
 2. Boundaries are approximate only.
 3. Locations are approximate only.
 4. Refer to survey plan for survey specific legend.
- Legend**
- 20m x 6m dwelling with 20m x 2.4m deck
 - 15m x 4.2m dwelling with 15m x 2.4m deck
 - Managers Office
 - 3mØ Water Tank (30,000L)
 - Clothes line
 - Driveway
 - Parking Area
 - Existing Structure
 - 6m Boundary setback
 - 10m Boundary setback
 - 20m Riparian Yard setback
 - Approximate Borehole Location

RESOURCE CONSENT

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C	28/08/2025	RPI RESPONSE	BR	JB

DWG SITE INVESTIGATION PLAN

A3 SCALE 1:1000

Date 27/05/2025

Drawn AS Checked BR Approved JB

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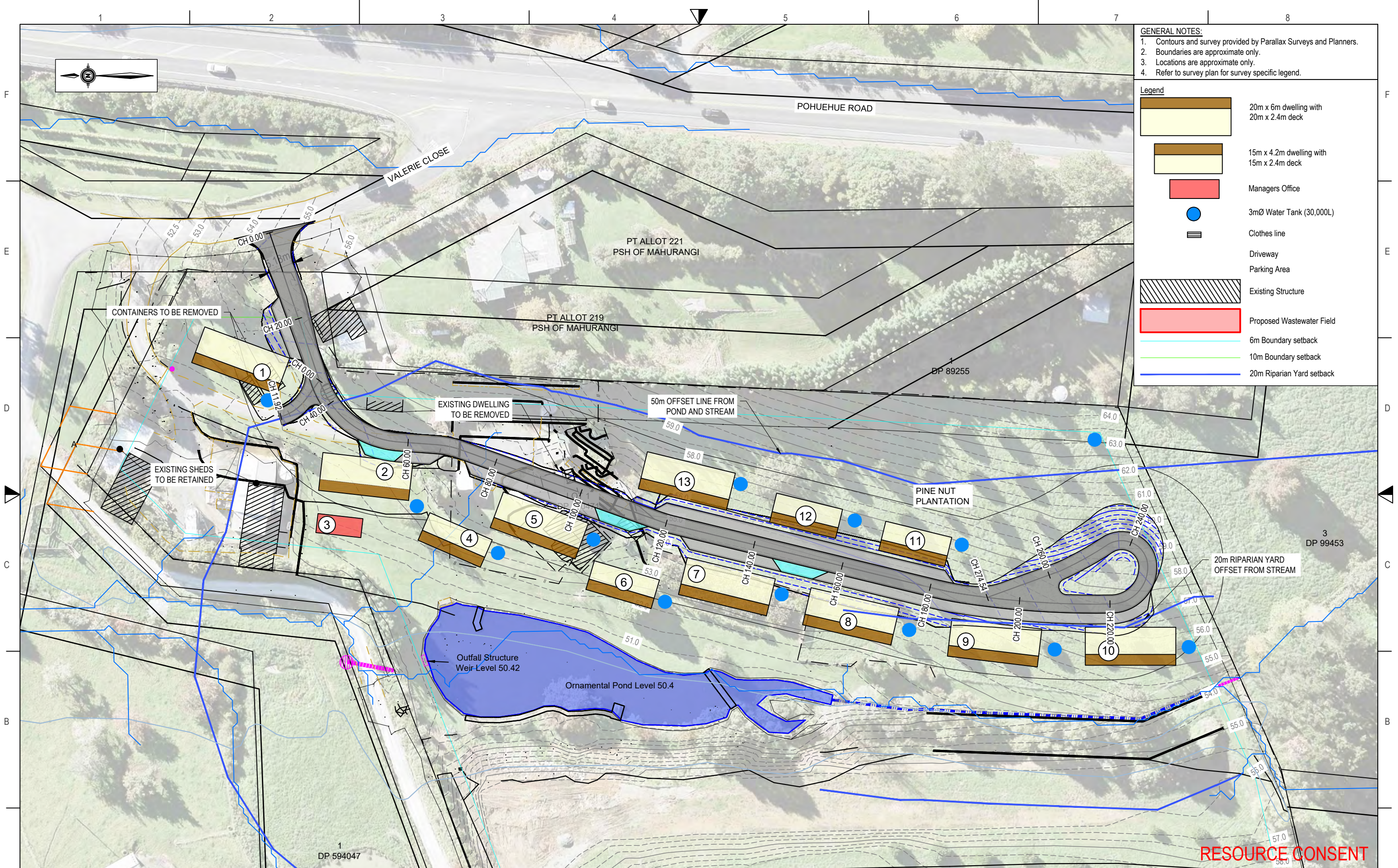
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Client	Pohuehue Community Housing Ltd	Dwg No.	GEO-02
Project No.	25 050	Sheet No.	2 of 12
RC no.			



RESOURCE CONSENT

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A	27/05/2025	1st ISSUE	AS	JB
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DWG PROPOSED SITE PLAN

A3 SCALE 1:750

0 15m 37.5m

Date 27/05/2025

Drawn AS Checked BR Approved JB

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Project	1695 Pohuehue Road Lot 1 DP 100471	Stage
Client	Pohuehue Community Housing Ltd	Dwg No. GEO-03
Project No. 25 050	RC no.	Sheet No. 3 of 12

Stage
Dwg No. GEO-03
Sheet No. 3 of 12

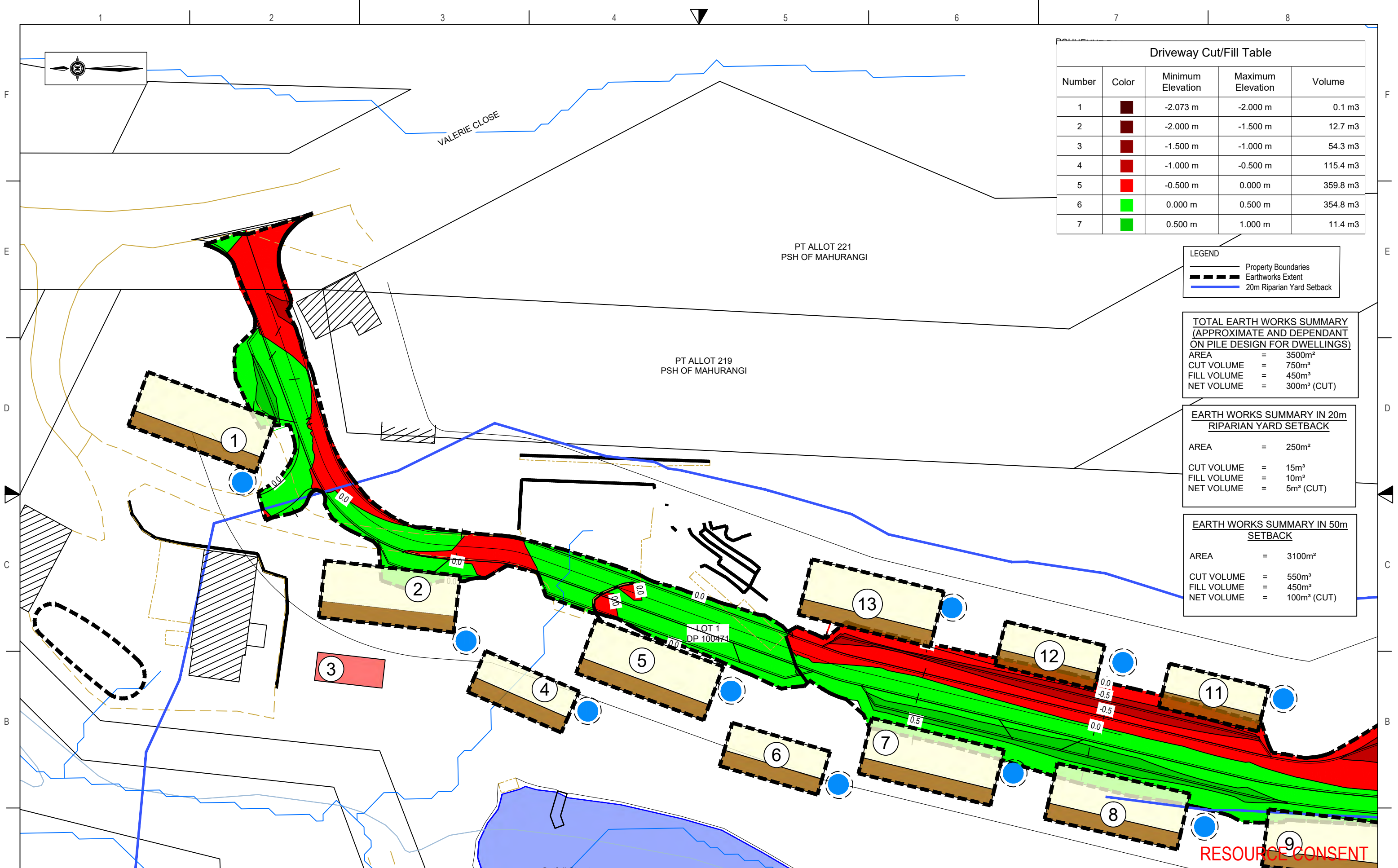
Driveway Cut/Fill Table				
Number	Color	Minimum Elevation	Maximum Elevation	Volume
1	Dark Red	-2.073 m	-2.000 m	0.1 m3
2	Dark Red	-2.000 m	-1.500 m	12.7 m3
3	Dark Red	-1.500 m	-1.000 m	54.3 m3
4	Red	-1.000 m	-0.500 m	115.4 m3
5	Bright Red	-0.500 m	0.000 m	359.8 m3
6	Green	0.000 m	0.500 m	354.8 m3
7	Bright Green	0.500 m	1.000 m	11.4 m3

LEGEND	
	Property Boundaries
	Earthworks Extent
	20m Riparian Yard Setback

TOTAL EARTH WORKS SUMMARY (APPROXIMATE AND DEPENDANT ON PILE DESIGN FOR DWELLINGS)	
AREA	= 3500m ²
CUT VOLUME	= 750m ³
FILL VOLUME	= 450m ³
NET VOLUME	= 300m ³ (CUT)

EARTH WORKS SUMMARY IN 20m RIPARIAN YARD SETBACK	
AREA	= 250m ²
CUT VOLUME	= 15m ³
FILL VOLUME	= 10m ³
NET VOLUME	= 5m ³ (CUT)

EARTH WORKS SUMMARY IN 50m SETBACK	
AREA	= 3100m ²
CUT VOLUME	= 550m ³
FILL VOLUME	= 450m ³
NET VOLUME	= 100m ³ (CUT)



RESOURCE CONSENT

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C	28/08/2025	RPI RESPONSE	BR	JB

DWG EARTHWORKS PLAN

A3 SCALE 1:500

0 10m 25m

Date 27/05/2025

Drawn AS Checked BR Approved JB

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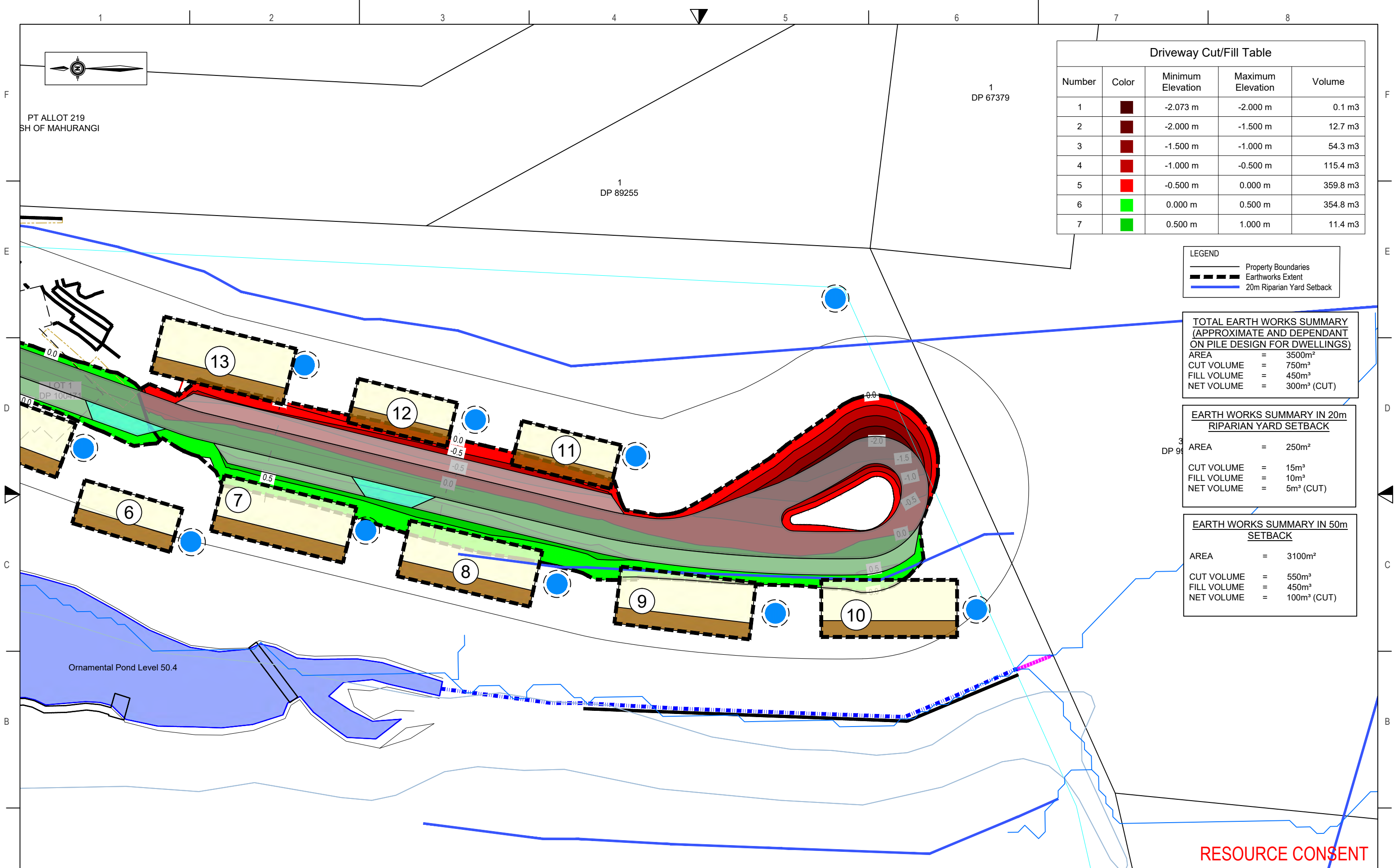
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Client	Pohuehue Community Housing Ltd	Dwg No. GEO-04
Project No. 25 050	RC no.	Sheet No. 4 of 12



Number	Color	Minimum Elevation	Maximum Elevation	Volume
1	Dark Red	-2.073 m	-2.000 m	0.1 m3
2	Dark Red	-2.000 m	-1.500 m	12.7 m3
3	Dark Red	-1.500 m	-1.000 m	54.3 m3
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7	Green	0.500 m	1.000 m	11.4 m3

	Property Boundaries
	Earthworks Extent
	20m Riparian Yard Setback

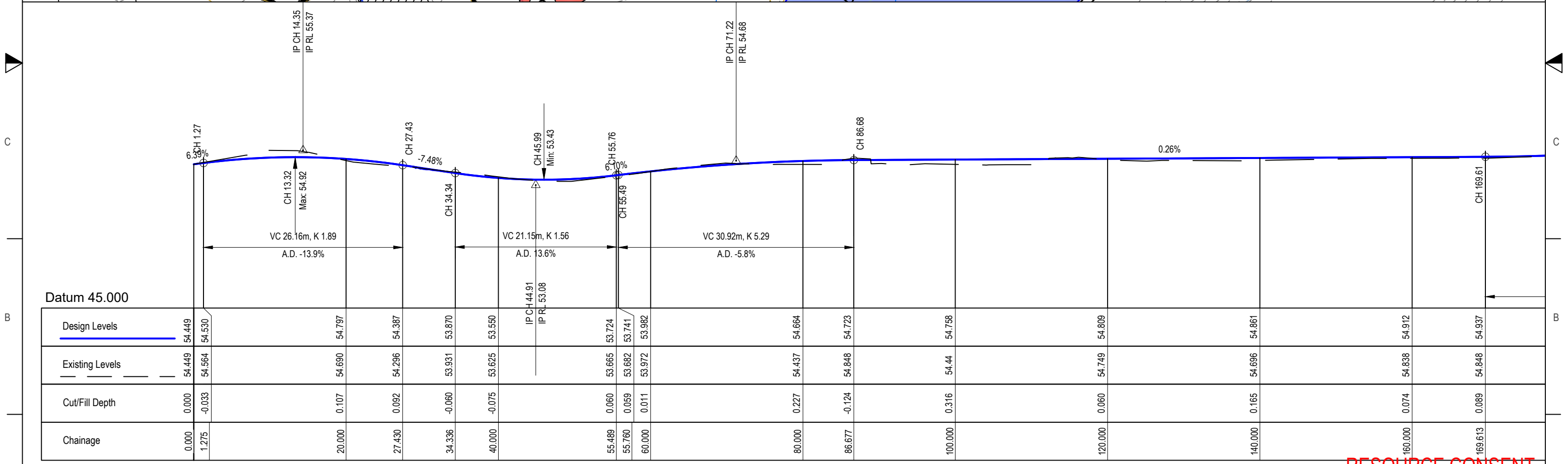
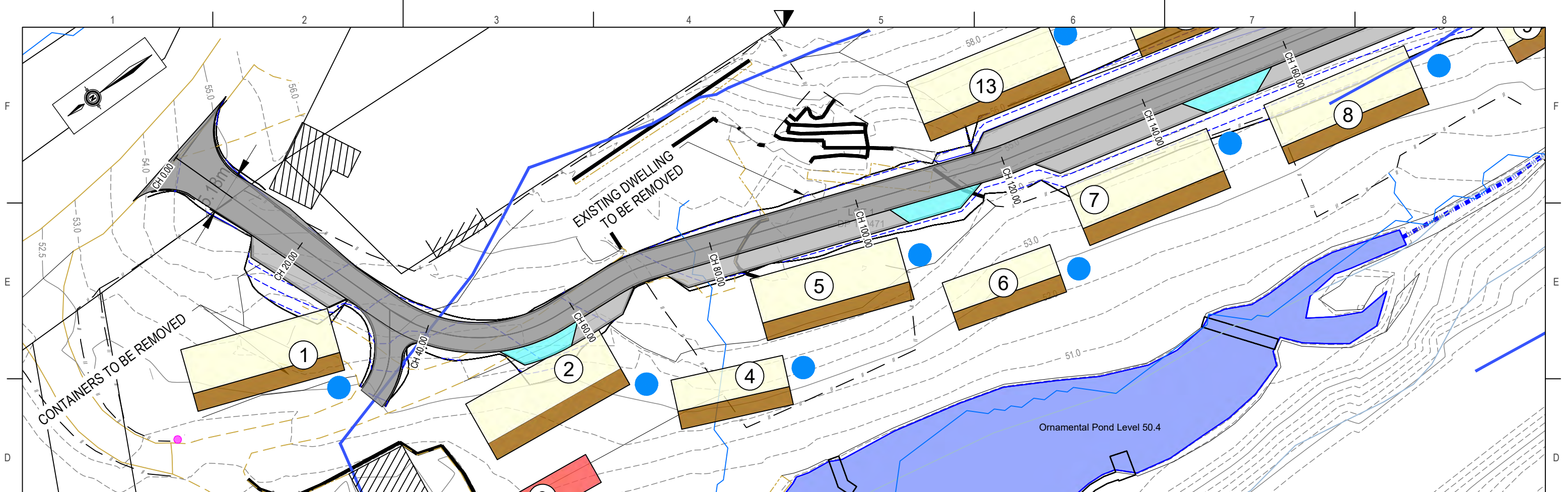
AREA	=	3500m ²
CUT VOLUME	=	750m ³
FILL VOLUME	=	450m ³
NET VOLUME	=	300m ³ (CUT)

AREA	=	250m ²
CUT VOLUME	=	15m ³
FILL VOLUME	=	10m ³
NET VOLUME	=	5m ³ (CUT)

AREA	=	3100m ²
CUT VOLUME	=	550m ³
FILL VOLUME	=	450m ³
NET VOLUME	=	100m ³ (CUT)

RESOURCE CONSENT

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	Rev	Date	Description	By	Checked																			
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C	28/08/2025	RPI RESPONSE	BR	JB

DWG LONGITUDINAL SECTION - DRIVEWAY
CH. 0.000 - 160.000

A3 SCALE H500 V250

0 10.0m 25.0m

Date 27/05/2025

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Project 1695 Pohuehue Road
Lot 1 DP 100471

Client Pohuehue Community Housing Ltd

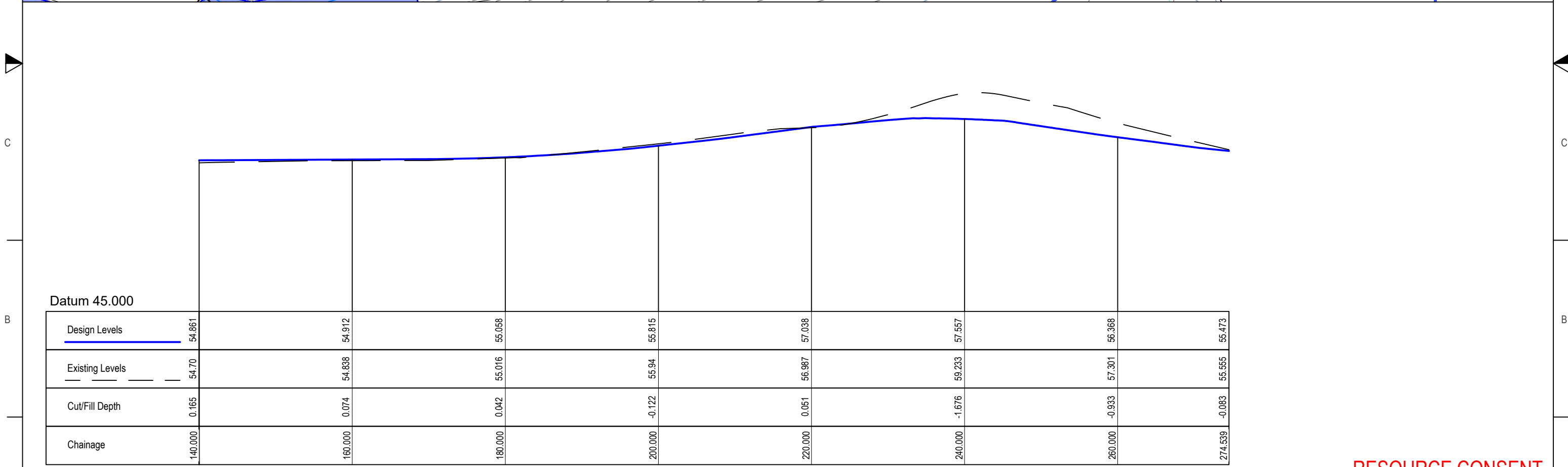
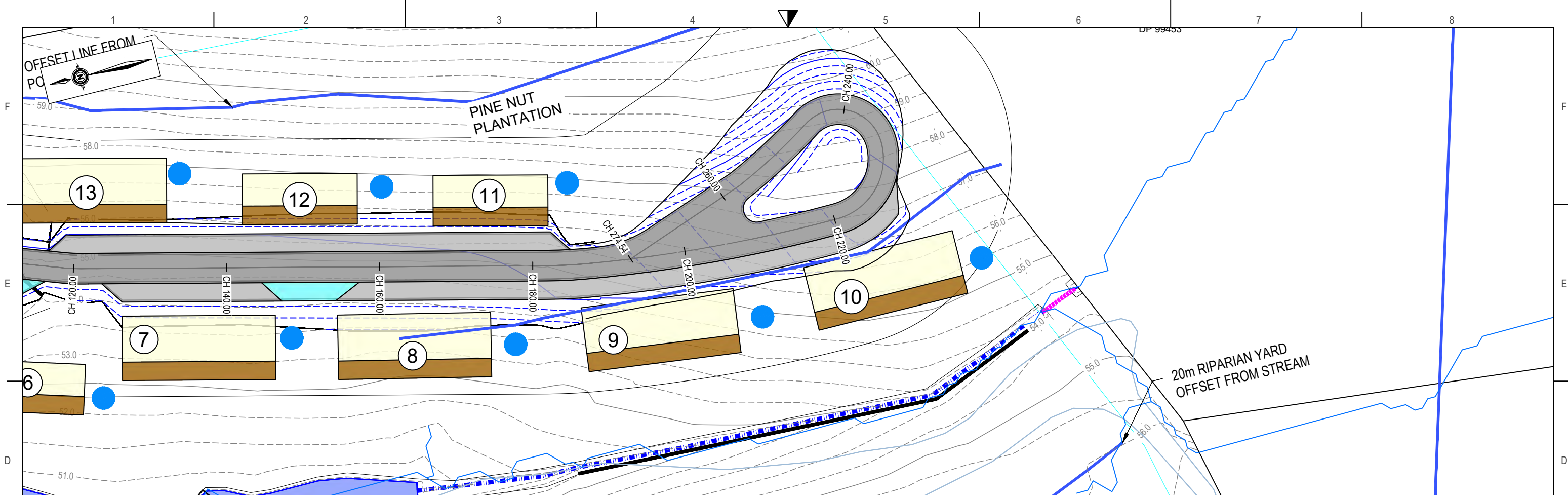
Project No. 25 050

Stage

Dwg No. LS-01

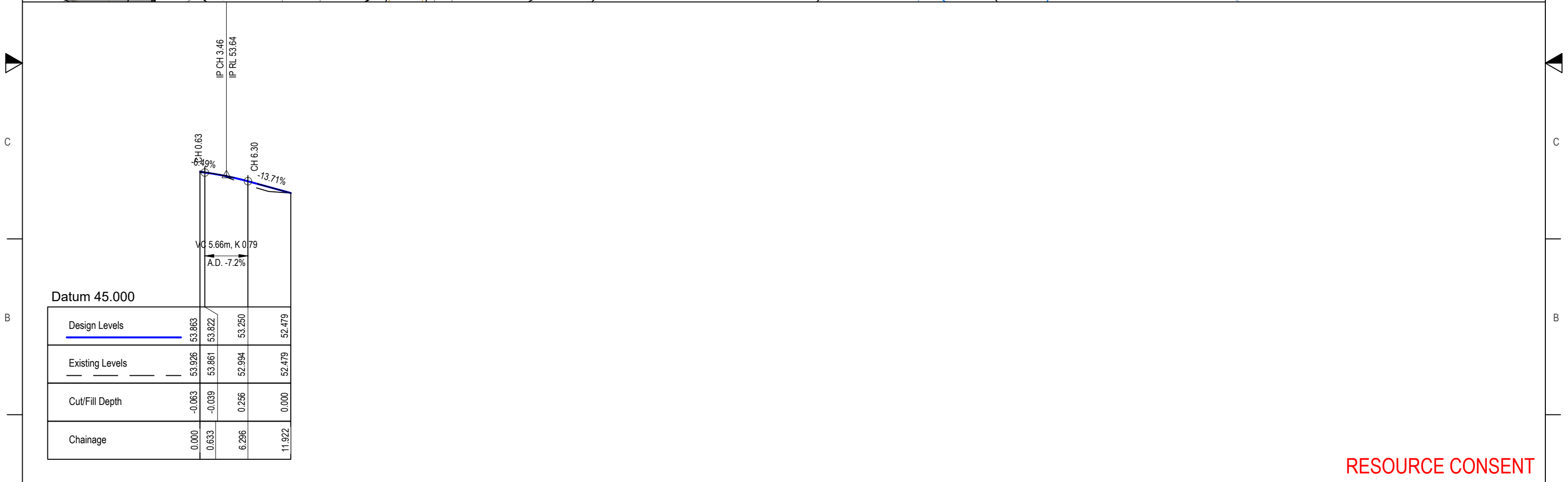
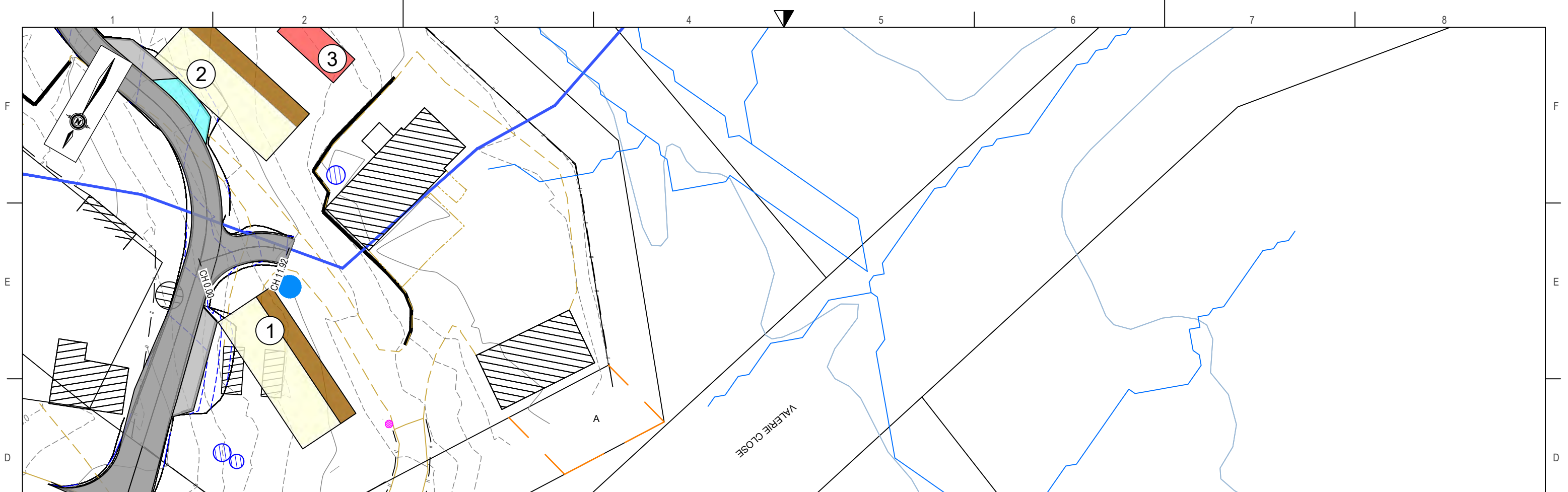
Sheet No. 6 of 12

RC no.



RESOURCE CONSENT

Rev	Date	Description	By	Checked	DWG	Project	Stage
A	27/05/2025	1st ISSUE	AS	JB	DRIVEWAY CH. 140.000 - 278.169	1695 Pohuehue Road Lot 1 DP 100471	Stage
B	13/06/2025	RESOURCE CONSENT	AS	BR			
C	28/08/2025	RPI RESPONSE	BR	JB			
					HAIGH WORKMAN Civil & Structural Engineers 6 Fairway Drive Kerikeri, BOI T: 09 407 8327 F: 09 407 8378 E: info@haighworkman.co.nz	Client	Pohuehue Community Housing Ltd
					A3 SCALE H500 V250 0 10.0m 25.0m Date 27/05/2025 Drawn AS Checked BR Approved JB	Project No. 25 050	RC no.
					File T:\CLIENTS\POHUEHUE COMMUNITY HOUSING LIMITED\25 050 - 1695 POHUEHUE ROAD, POHUEHUE\ENGINEERING\DRAWINGS\25_050_1695 POHUEHUE ROAD_EARTHWORKS.DWG		Dwg No. LS-02 Sheet No. 7 of 12

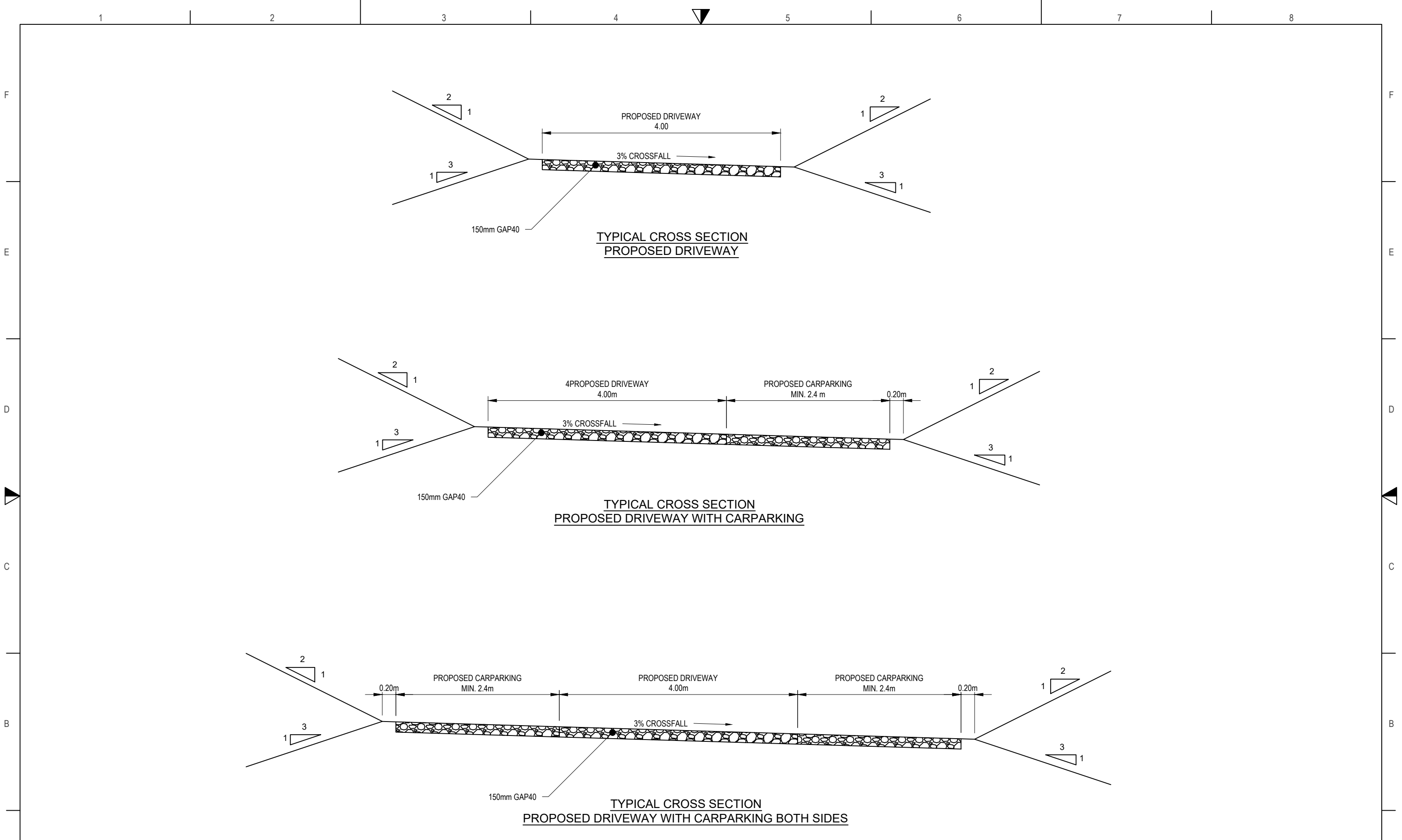


Datum 45.000

Design Levels	53.863	53.822	53.250	52.479
Existing Levels	53.926	53.861	52.994	52.479
Cut/Fill Depth	-0.063	-0.039	0.256	0.000
Chainage	0.000	0.633	6.296	11.922

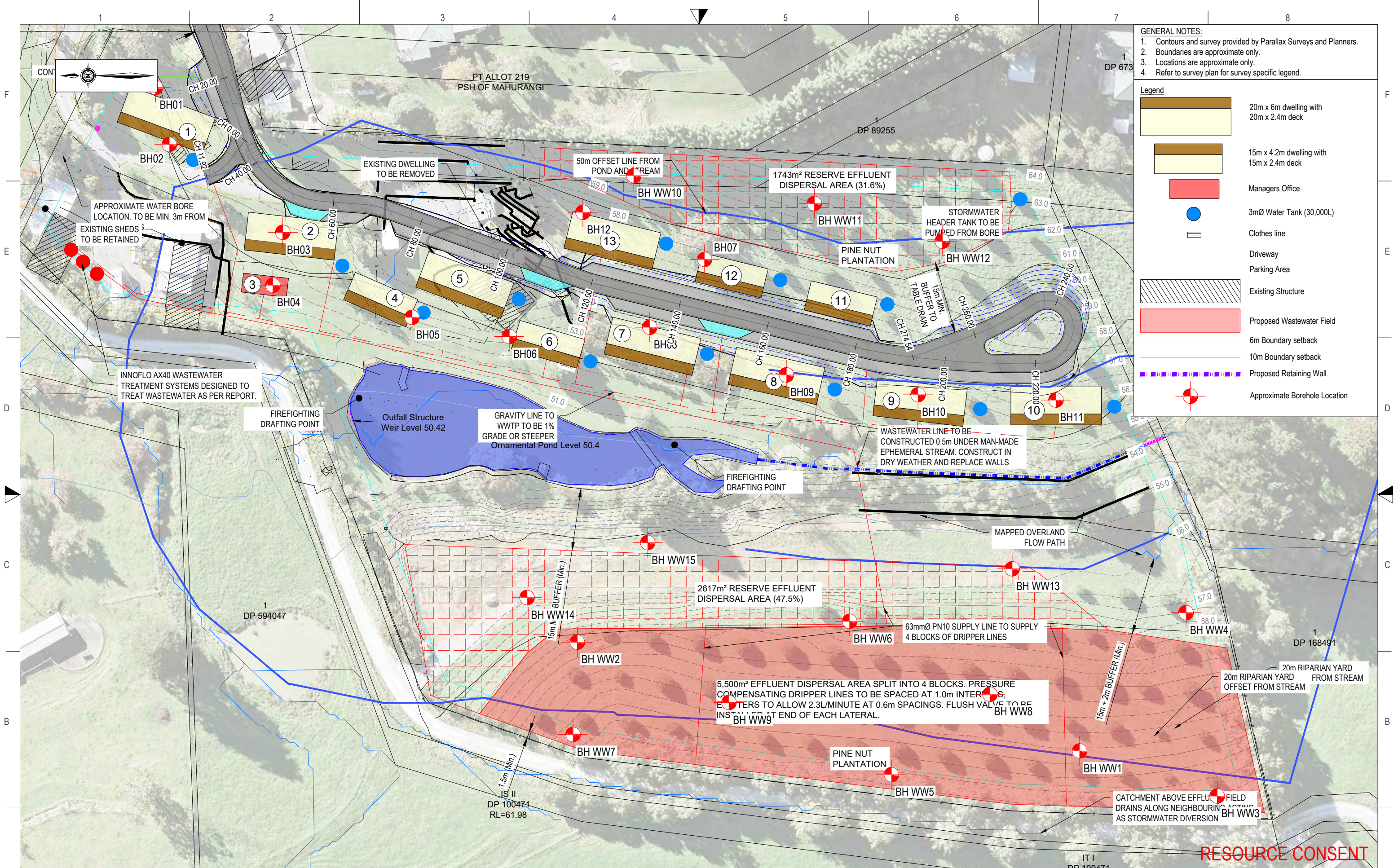
RESOURCE CONSENT

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RESOURCE CONSENT

Rev	Date	Description	By	Checked	DWG TYPICAL CROSS SECTIONS	 6 Fairway Drive Kerikeri, BOI T: 09 407 8327 F: 09 407 8378 E: info@haighworkman.co.nz	Project	1695 Pohuehue Road Lot 1 DP 100471	Stage	
A	27/05/2025	1st ISSUE	AS	JB	A3 SCALE Not to Scale		Date	27/05/2025	Client	Pohuehue Community Housing Ltd
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									Sheet No.	9 of 12



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 - Existing Structure
 - Proposed Wastewater Field
 - 6m Boundary setback
 - 10m Boundary setback
 - Proposed Retaining Wall
 - Approximate Borehole Location

RESOURCE CONSENT

Rev	Date	Description	By	Checked
A	27/05/2025	1st ISSUE	AS	JB
B	13/06/2025	RESOURCE CONSENT	AS	BR
C	28/08/2025	RPI RESPONSE	BR	JB

DWG WASTEWATER AND STORMWATER PLAN

A3 SCALE 1:750

0 15m 37.5m

Date 27/05/2025

Drawn AS Checked BR Approved JB

File T:\CLIENTS\POHUEHUE COMMUNITY HOUSING LIMITED\25 050 - 1695 POHUEHUE ROAD, POHUEHUE\ENGINEERING\DRAWINGS\25_050_1695 POHUEHUE ROAD_EARTHWORKS.DWG

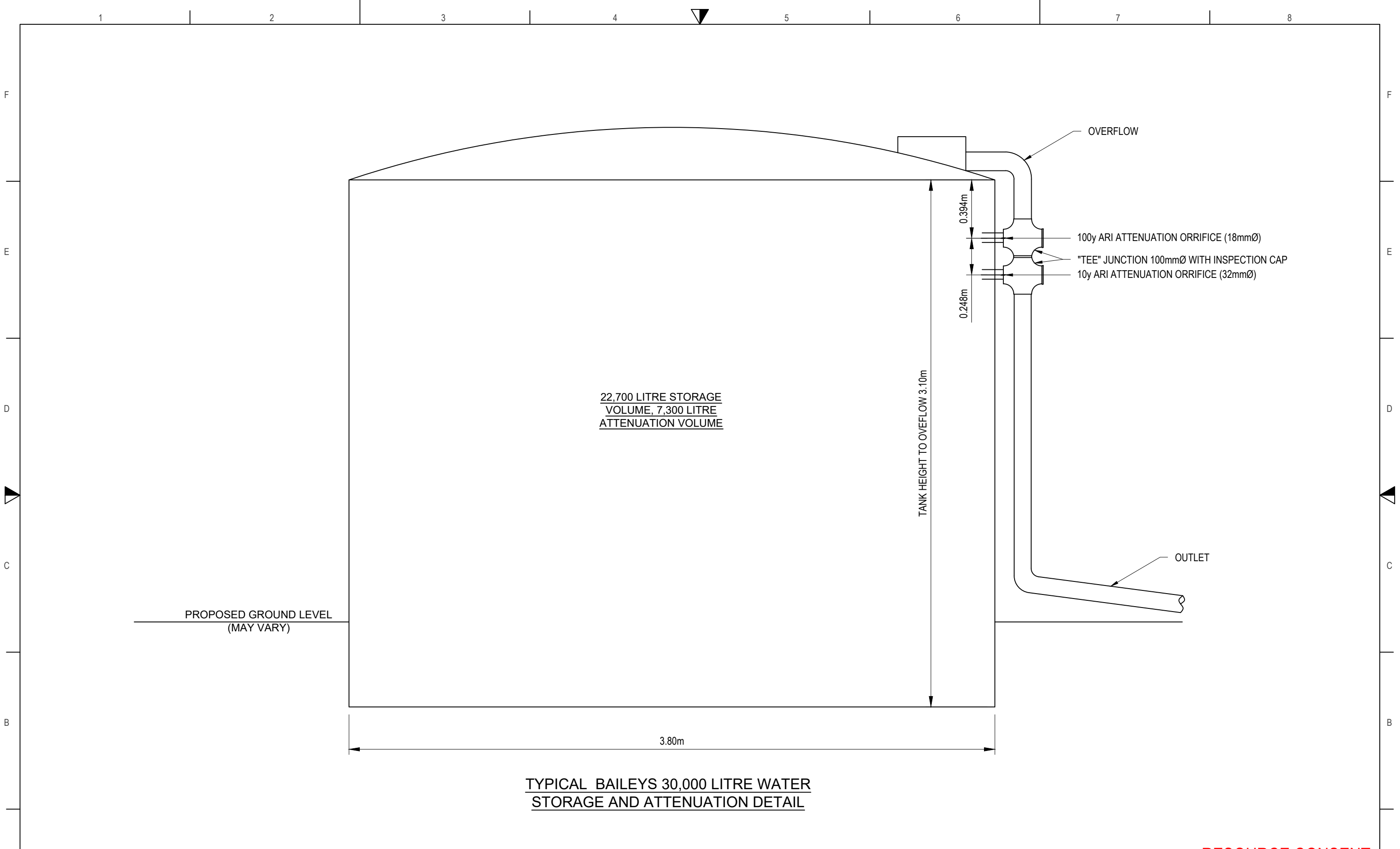
HAIGH WORKMAN
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Kerikeri, BOI

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E: info@haighworkman.co.nz

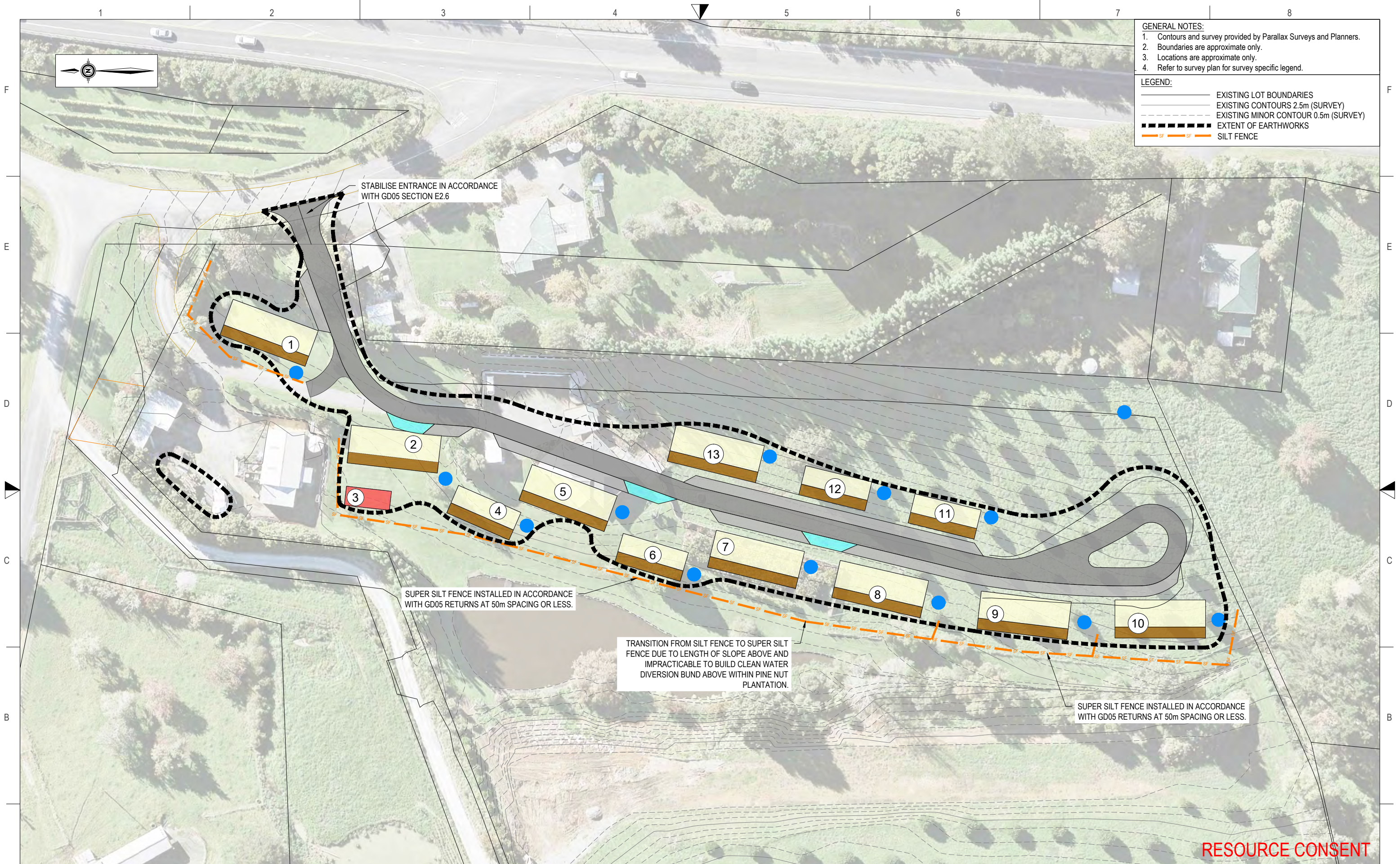
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Project	1695 Pohuehue Road Lot 1 DP 100471	Stage	
Client	Pohuehue Community Housing Ltd	Dwg No.	W-01
Project No.	25 050	Sheet No.	10 of 12
RC no.			



RESOURCE CONSENT

A	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Description</th> <th>By</th> <th>Checked</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>27/05/2025</td> <td>1st ISSUE</td> <td>AS</td> <td>JB</td> </tr> <tr> <td>B</td> <td>13/06/2025</td> <td>RESOURCE CONSENT</td> <td>AS</td> <td>BR</td> </tr> <tr> <td>C</td> <td>28/08/2025</td> <td>RPI RESPONSE</td> <td>BR</td> <td>JB</td> </tr> </tbody> </table>	Rev	Date	Description	By	Checked	A	27/05/2025	1st ISSUE	AS	JB	B	13/06/2025	RESOURCE CONSENT	AS	BR	C	28/08/2025	RPI RESPONSE	BR	JB	<p>DWG STORMWATER DETAILS</p> <p>A3 SCALE Not to Scale</p> <p>Drawn AS Checked BR Approved JB</p> <p>Date 27/05/2025</p> <p>File T:\CLIENTS\POHUEHUE COMMUNITY HOUSING LIMITED\25 050 - 1695 POHUEHUE ROAD, POHUEHUE\ENGINEERING\DRAWINGS\25_050_1695 POHUEHUE ROAD_EARTHWORKS.DWG</p>	<p>6 Fairway Drive Kerikeri, BOI</p> <p>T: 09 407 8327 F: 09 407 8378 E: info@haighworkman.co.nz</p> <p><small>DIMENSIONS MUST NOT BE SCALE MEASURED FROM THESE DRAWINGS. THE CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS INCLUDING, SITE LEVELS, HEIGHTS AND ANGLES ON SITE PRIOR TO COMMENCING ANY WORK. THE COPYRIGHT TO THESE DRAWINGS AND ALL PARTS THEREOF REMAIN THE PROPERTY OF HAIGH WORKMAN LTD. ©2020</small></p>	<p>Project 1695 Pohuehue Road Lot 1 DP 100471</p> <p>Client Pohuehue Community Housing Ltd</p> <p>Project No. 25 050</p> <p>RC no.</p>	<p>Stage</p> <p>Dwg No. W-02</p> <p>Sheet No. 11 of 12</p>	A
Rev	Date	Description	By	Checked																						
A	27/05/2025	1st ISSUE	AS	JB																						
B	13/06/2025	RESOURCE CONSENT	AS	BR																						
C	28/08/2025	RPI RESPONSE	BR	JB																						



- GENERAL NOTES:**
- Contours and survey provided by Parallax Surveys and Planners.
 - Boundaries are approximate only.
 - Locations are approximate only.
 - Refer to survey plan for survey specific legend.
- LEGEND:**
- EXISTING LOT BOUNDARIES
 - EXISTING CONTOURS 2.5m (SURVEY)
 - EXISTING MINOR CONTOUR 0.5m (SURVEY)
 - EXTENT OF EARTHWORKS
 - SILT FENCE

RESOURCE CONSENT

Rev	Date	Description	By	Checked
-A	21/08/2025	RESOURCE CONSENT	-BR	-JB

DWG Erosion and Sediment Control Plan

A3 SCALE 1:750 0 15m 37.5m Date 21/08/2025

Drawn BR Checked BR Approved JB

File T:\CLIENTS\POHUEHUE COMMUNITY HOUSING LIMITED\25 050 - 1695 POHUEHUE ROAD, POHUEHUE\ENGINEERING\DRAWINGS\25_050_1695 POHUEHUE ROAD_EARTHWORKS.DWG

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Project	1695 Pohuehue Road Lot 1 DP 100471	Stage	
Client	Pohuehue Community Housing Ltd	Dwg No.	ESCP-01
Project No.	25 050	RC no.	
		Sheet No.	12 OF 12

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Borehole Log - BH#WW1

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 01/04/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Dry, stiff, non plastic. [TOPSOIL]	0.0	T/S				0		
0.2m - Silty CLAY; Orangish brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation		Groundwater not encountered		~100	UTP	
	1.0					~150	UTP	
1.5m - End of Bore (Target depth reached)	1.5					~180	198+	
	2.0							
	2.5							



LEGEND:

TOPSOIL 	CLAY 	SILT 	SAND 	GRAVEL 	FILL 	LIMESTONE
--------------------	-----------------	-----------------	-----------------	-------------------	-----------------	----------------------

Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:
UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:
Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW2

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 01/04/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Dry, stiff, non plastic. [TOPSOIL]	0.0	T/S						Scala Penetrometer not undertaken (Not required)
0.25m - Silty CLAY; Orangish brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation		Groundwater not encountered	3	UTP	UTP	
1.0m - Clayey SILT; Pink, cream, and brown. Moist, very stiff, moderate plasticity.	1.0					UTP	UTP	
	1.5					135/46	135/46	
2.0m - End of Bore (Target depth reached)	2.0				3	125/43	125/43	
	2.5							



LEGEND:



Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:

UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:

Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW3


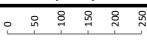
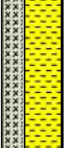
Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50




LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.3m - Silty CLAY; Brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation		Groundwater not encountered				
0.9m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:

TOPSOIL 	CLAY 	SILT 	SAND 	GRAVEL 	FILL 	LIMESTONE 
---	--	--	--	--	--	---

Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:
UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:
Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW4



Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

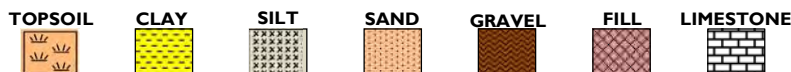
SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50




LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered		0 50 100 150 200 250		Scala Penetrometer not undertaken (Not required)
0.3m - Silty CLAY; Brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation		Groundwater not encountered				
0.8m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:



Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:

UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:

Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001

Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW5

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation		Groundwater not encountered				
0.9m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:

TOPSOIL 	CLAY 	SILT 	SAND 	GRAVEL 	FILL 	LIMESTONE
--------------------	-----------------	-----------------	-----------------	-------------------	-----------------	----------------------

Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	•

Notes:
UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:
Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW6

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity.		Pakiri Formation						
0.6m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	0.5							
1.0m - Silty CLAY; Orangish Brown with pink and grey. Moist, very stiff, moderate plasticity.	1.0							
1.2m - End of Bore (Target depth reached)								
	1.5							
	2.0							



LEGEND:

TOPSOIL 	CLAY 	SILT 	SAND 	GRAVEL 	FILL 	LIMESTONE
--------------------	-----------------	-----------------	-----------------	-------------------	-----------------	----------------------

Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:

UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:

Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001

Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW7

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm): 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.3m - Silty CLAY; Brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation						
0.9m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:

TOPSOIL 	CLAY 	SILT 	SAND 	GRAVEL 	FILL 	LIMESTONE
--------------------	-----------------	-----------------	-----------------	-------------------	-----------------	----------------------

Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:
UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:
Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW8

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S						Scala Penetrometer not undertaken (Not required)
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity.		Pakiri Formation		Groundwater not encountered				
0.9m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	1.0							
1.1m - Silty CLAY; Orangish Brown with pink and grey. Moist, very stiff, moderate plasticity.								
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:

TOPSOIL 	CLAY 	SILT 	SAND 	GRAVEL 	FILL 	LIMESTONE
--------------------	-----------------	-----------------	-----------------	-------------------	-----------------	----------------------

Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:

UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:

Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW9


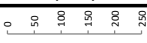
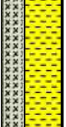
Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50




LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.3m - Silty CLAY; Brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation						
0.8m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:

 TOPSOIL	 CLAY	 SILT	 SAND	 GRAVEL	 FILL	 LIMESTONE
--	---	---	---	---	---	--

Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:

UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:

Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW10

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S						Scala Penetrometer not undertaken (Not required)
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity.		Pakiri Formation		Groundwater not encountered				
0.4m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	0.5							
	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:



Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	

Notes:
UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:
Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Borehole Log - BH#WW11

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity.								
0.4m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation						
1.1m - Silty CLAY; Orangish Brown with pink and grey. Moist, very stiff, moderate plasticity.	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:



Corrected shear vane reading
Remoulded shear vane reading
Scala Penetrometer

Notes:

UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:

Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

3 Elizabeth Street
Warkworth, 0910
New Zealand

Phone 09 425 9422

www.haighworkman.co.nz
info@haighworkman.co.nz

Borehole Log - BH#WW12

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity.		Pakiri Formation						
0.6m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	0.5							
1.2m - End of Bore (Target depth reached)	1.0							
	1.5							
	2.0							



LEGEND:



Corrected shear vane reading
Remoulded shear vane reading
Scala Penetrometer

Notes:
UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:
Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Phone 09 425 9422

www.haighworkman.co.nz
info@haighworkman.co.nz

Borehole Log - BH#WW13

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity.								
0.4m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation						
1.2m - End of Bore (Target depth reached)	1.0							
	1.5							
	2.0							



LEGEND:



Corrected shear vane reading
Remoulded shear vane reading
Scala Penetrometer

Notes:

UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:

Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Phone 09 425 9422

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info@haighworkman.co.nz

Borehole Log - BH#WW14

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S						
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity.	0.5	Pakiri Formation		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.7m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity.	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:

TOPSOIL
 CLAY
 SILT
 SAND
 GRAVEL
 FILL
 LIMESTONE

Corrected shear vane reading
 Remoulded shear vane reading
 Scala Penetrometer

Notes:
UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:
Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

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Warkworth, 0910
New Zealand

Phone 09 425 9422

www.haighworkman.co.nz
info@haighworkman.co.nz

Borehole Log - BH#WW15

Hole Location: Refer to Site Plan

JOB No. 25 050

CLIENT: Bill Endean
DATE DRILLED: 21/08/2025

SITE: 1695 Pohuehue Road
DRILLING METHOD: Hand Auger
HOLE DIAMETER (mm) 50

LOGGED BY: BR
CHECKED BY: JB

Soil Description <small>Based on NZGS Logging Guidelines 2005</small>	Depth (m)	Geology	Graphic Log	Water Level	Sensitivity	Vane Shear and Remoulded Vane Shear Strengths (kPa)	Shear Values (kPa)	Scala Penetrometer (blows/100mm)
0.0m - Clayey SILT with organic matter; Dark brown. Moist, stiff, non plastic. [TOPSOIL]	0.0	T/S		Groundwater not encountered				Scala Penetrometer not undertaken (Not required)
0.2m - Silty CLAY; Brown. Moist, very stiff, high plasticity. [FILL]								
0.4m - Silty CLAY; Orangish Brown. Moist, very stiff, high plasticity. [FILL]	0.5							
1.1m - Clayey SILT; Pink and orangish brown. Wet, stiff, moderate plasticity. [Fill]	1.0							
1.2m - End of Bore (Target depth reached)	1.5							
	2.0							



LEGEND:

TOPSOIL 	CLAY 	SILT 	SAND 	GRAVEL 	FILL 	LIMESTONE
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Corrected shear vane reading	
Remoulded shear vane reading	
Scala Penetrometer	•

Notes:
UTP = Unable to penetrate. mbgl = metres below ground level.
Hand Held Shear Vane S/N: 326

Test Methods:
Shear Strength using a Hand Held Shear Vane, NZ Geotechnical Soc Inc 8/2001
Scala Penetrometer: NZS4402: 1986: 6.5.2 Hand method using a DCP

AUCKLAND COUNCIL
Appendix E TP58
On-Site Wastewater Disposal Site Evaluation
Investigation Checklist

Part A –Owners Details

1. Applicant Details:

Applicant Name	<i>Pohuehue Community Housing Ltd.</i>
Company Name	
Property Owner Name(s)	<i>Pohuehue Community Housing Ltd.</i>

Nature of Applicant*	<i>Owner</i>
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(*i.e. Owner, Lessee, Prospective Purchaser, Developer)

2. Consultant / Site Evaluator Details:

Consultant/Agent Name	<i>Haigh Workman</i>		
Site Evaluator Name	<i>Ben Richardson</i>		
Postal Address	<i>PO Box 124</i>		
	<i>Warkworth</i>		
Phone Number	Business	<i>09 425 9422</i>	Private
	Cell Phone	<i>021 244 8217</i>	Fax
Name of Contact Person	<i>Ben Richardson</i>		
E-mail Address	<i>ben@haighworkman.co.nz</i>		

3. Are there any previous existing discharge consents relating to this proposal or other waste discharge on this site?

Yes		No	<i>unknown</i>	(Please tick)
If yes, give Reference Numbers and Description				

4. List any other consent in relation to this proposal site and indicate whether or not they have been applied for or granted

If so, specify Application Details and Consent No.

(eg. LandUse, Water Take, Subdivision, Earthworks, Stormwater Consent)

<i>The site contains an existing Dwelling. Consent numbers are not known to us.</i>

Part B- Property Details

1. Property for which this application relates:

Physical Address of Property	<i>1695 Pohuehue Road</i>		
	<i>Warkworth</i>		
Territorial Local Authority	AUCKLAND COUNCIL		
Regional Council	AUCKLAND COUNCIL		
Legal Status of Activity	Permitted:	Controlled:	Discretionary: <input checked="" type="checkbox"/>
Relevant Regional Rule(s) (Note 1)	<i>E5.6.2.1</i>		
Total Property Area (m ²)	<i>28,714</i>		
Map Grid Reference of Property If Known			

2. Legal description of land (as shown on Certificate of Title)

Lot No.	DP No.	CT No.
<i>1</i>	<i>100471</i>	
Other (specify)		

Please ensure copy of Certificate of Title is attached

PART C: Site Assessment - Surface Evaluation

(Refer TP58 - Sn 5.1 General Purpose of Site Evaluation and Sn 5.2.2(a) Site Surface Evaluation)

Note: Underlined terms defined in Table 1, attached

Has a relevant property history study been conducted?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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(Please tick one)

If yes, please specify the findings of the history study, and if not please specify why this was not considered necessary.

<i>Included within Environmental report, Haigh Workman reference: 25 050</i>

1. Has a Slope Stability Assessment been carried out on the property?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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 (Not for disposal field).

If No, why not?

*Ground slope is up to 18° and vegetated. Qualitative stability assessment included in report ref.:25 050-GEO
The geology is Waitemata Sedimentary, and shows no existing instability.*

If Yes, please give details of report (and if possible, please attach report):

Author	<i>Ben Richardson</i>
Company/Agency	<i>Haigh Workman Ltd.</i>
Date of Report	May 2025
Brief Description of Report Findings:- Qualitive analysis shows gentle slopes and not considered to exhibit signs of instability	

2. Site Characteristics (See Table 1 attached):

Provide descriptive details below:

Performance of Adjacent Systems:

Adequate from donor site.

Estimated Rainfall and Seasonal Variation:

1,200 mm per year. 700 mm winter, 500 mm summer

Vegetation / Tree Cover:

Mature Pine Nut Tree Plantation

Slope Shape: (Please provide diagrams)

East facing hill side

Slope Angle:

Up to 14 degrees across disposal area (15m + 2m buffer setback where required from nearest downslope surface water)

Surface Water Drainage Characteristics:

Driveway above site with overland flowpath diverting surface water away from effluent field.

Flooding Potential: YES/NO

No – well elevated

If yes, specify relevant flood levels on appended site plan, i.e. one in 5 years and/or 20 year and/or 100 year return period flood level, relative to disposal area.

Surface Water Separation:

15 m + buffer is available downslope. surface water diversion for the main effluent field is in place.

Site Characteristics: or any other limitation influencing factors

14° slope protected by vegetation

3. Site Geology**Check Rock Maps**

Underlying rock is sedimentary - sandstone and mudstone of Waitemata Group.

Geological Map Reference Number

[GNS Webmap](#)

4. What Aspect(s) does the proposed disposal system face? (please tick)

North		West	
North-West		South-West	
North-East		South-East	
East	<input checked="" type="checkbox"/>	South	

5. Site clearances, (Indicate on site plan where relevant)

Separation Distance from	Treatment Separation Distance (m)	Disposal Field Separation Distance (m)	AC minimum
Boundaries	> 1.5	> 1.5	1.5 m
Surface water, creeks, drains	>3.0	> 17	15 + 2m slope buffer for field
Groundwater	N/A	> 1.5	0.9 (Secondary)
Stands of Trees/Shrubs	N/A	N/A	N/A
Wells, water bores	3.0+	100+	20 m for field
Embankments/retaining walls	N/A	N/A	N/A
Buildings	> 3	>3	1.5-3.0 m
Rivers, Coastal Marine area	> 30	> 30	15+2 slope buffer

PART D: Site Assessment - Subsoil Investigation

(Refer TP58 - Sn 5.1 General Purpose of Site Evaluation, and Sn 5.2.2(a) Site Surface Evaluation and Sn 5.3 Subsurface Investigations)

Note: Underlined terms defined in Table 2, attached

1. Please identify the soil profile determination method:

Test Pit		(Depth _____ m	No of Test Pits	
Bore Hole	<input checked="" type="checkbox"/>	(Depth 1.2 – 2.0m	No of Bore Holes	15
Other (specify):				

Soil Report attached? – Borehole in winter season

Yes	<input checked="" type="checkbox"/>	No		Please tick
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2. Was fill material intercepted during the subsoil investigation?

Yes	<input checked="" type="checkbox"/>	No		Please tick
-----	-------------------------------------	----	--	-------------

If yes, please specify the effect of the fill on wastewater disposal

Fill was well compacted and isolated to one borehole only. Conservative Design Irrigation rate chosen for slowly draining soils.

3. Percolation testing (mandatory and site specific for trenches in soil type 4 to 7)

Please specify the method; conservative value chosen

Test Report Attached?	Yes		No	<input checked="" type="checkbox"/>	Please tick
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4. Are surface water interception/diversion drains required?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Please tick
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If yes, please show on site plan (Existing on Western boundary)

4a Are subsurface drains required

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Please tick
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If yes, please provide details

5. Please state the depth of the seasonal water table:

Winter	> 1.5	m	Measured	<input checked="" type="checkbox"/>	Estimated	<input type="checkbox"/>
Summer	> 1.5	m	Measured	<input checked="" type="checkbox"/>	Estimated	<input type="checkbox"/>

6. Are there any potential storm water short circuit paths?

Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Please tick
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If the answer is yes, please explain how these have been addressed

7. Based on results of subsoil investigation above, please indicate the disposal field soil category (Refer TP58 Table 5.1)

Is Topsoil Present?	Yes	If so, Topsoil Depth?	0.1-0.3(m)
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Soil Category	Description	Drainage	
1	Gravel, coarse sand	Rapid draining	
2	Coarse to medium sand	Free draining	
3	Medium-fine & loamy sand	Good drainage	
4	Sandy loam, loam & silt loam	Moderate drainage	
5	Sandy clay-loam, clay loam & silty clay-loam	Moderate to slow drainage	
6	Sandy clay, non-swelling clay & silty clay	Slow draining	<input checked="" type="checkbox"/>
7	Swelling clay, grey clay, hardpan	Poorly or non-draining	

Reasons for placing in stated category

<i>Visual assessment of soils recovered from hand augered boreholes and review of geological mapping</i>

PART E: Discharge Details

1. Water supply source for the property (please tick):

Rainwater (roof collection)	<input checked="" type="checkbox"/>
Bore/well	<input checked="" type="checkbox"/>
Public supply	<input type="checkbox"/>

2. Calculate the maximum daily volume of wastewater to be discharged, unless accurate water meter readings are available

(Refer TP58 Table 6.1 and 6.2)

Number of Bedrooms	54			
Design Occupancy	57			(Number of People)
Per capita Wastewater Production	145	160	180 ✓	(tick) (Litres per person per day)
	200	220		
Daily Wastewater Production	10,800			(litres per day)

3. Do any special conditions apply regarding water saving devices

a) Full Water Conservation Devices?	Yes		No	✓	(Please tick)
b) Water Recycling - what %?		%			(Please tick)

If you have answered yes -state what conditions apply and include the estimated reduction in water usage

4. Is Daily Wastewater Discharge Volume more than 2,000 litres:

Yes	✓	(Please tick)
No		(Please tick)

Note if answer to the above is yes, a wastewater discharge permit may be required

5. Gross Lot Area to Discharge Ratio:

Gross Lot Area	28,714	m ²
Total Daily Wastewater Production	10,800	(Litres per day) (from above)
Lot Area to Discharge Ratio	2.7:1	

7. Does this proposal comply with the Auckland Council Gross Lot Area to Discharge Ratio of greater than 3.0?

Yes		No	✓	Please tick
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8. Is a Auckland Council Discharge Consent Required?

Yes	✓	No		(Please tick)
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PART F: Primary Treatment (Refer TP58 Section 7.2)

1. Please indicate below the no. and capacity (litres) of all septic tanks including type (single/dual chamber grease traps) to be installed or currently existing: If not 4,500 litre, dual chamber, explain why not

Number of Tanks	Type of Tank	Capacity of Tank (Litres)
1 – Advantex AX40 (3 systems)	Secondary	4000
	Total Capacity	12000

2. Type of Septic Tank Outlet Filter to be installed?

130 Micron Red Arkal disk filter

PART G: Secondary and Tertiary Treatment

(Refer TP58 Section 7.3, 7.4, 7.5 and 7.6)

1. Please indicate the type of additional treatment, if any, proposed to be installed in the system: (please tick)

Secondary Treatment	<input checked="" type="checkbox"/>	
Home aeration plant	<input type="checkbox"/>	
Commercial aeration plant	<input type="checkbox"/>	
Intermediate sand filter	<input type="checkbox"/>	
Recirculating sand filter	<input type="checkbox"/>	
Recirculating textile filter	<input type="checkbox"/>	
Clarification tank	<input type="checkbox"/>	
Tertiary Treatment	<input type="checkbox"/>	
Ultraviolet disinfection	<input type="checkbox"/>	
Chlorination	<input type="checkbox"/>	
Other	<input type="checkbox"/>	Specify <input style="width: 300px;" type="text"/>

PART H: Land Disposal Method

(Refer TP58 Section 8)

1. Please indicate the proposed loading method: (please tick)

Gravity	<input type="checkbox"/>
Dosing Siphon	<input type="checkbox"/>
Pump	<input checked="" type="checkbox"/>

2. High water level alarm to be installed in pump chambers

Yes No

If not to be installed, explain why

--

3. If a pump is being used, please provide the following information:

Total Design Head	35+	(m)
Pump Chamber Volume	Minimum: 3600 L (Minimum pump dose: 1200 L)	(Litres)
Emergency Storage Volume	Minimum 1 day's storage 10,620 L	(Litres)

4. Please identify the type(s) of land disposal method proposed for this site: (please tick)

(Refer TP58 Sections 9 and 10)

Surface Dripper Irrigation	<input checked="" type="checkbox"/>		
Sub-surface Dripper irrigation	<input type="checkbox"/>		
Standard Trench	<input type="checkbox"/>		
Deep Trench	<input type="checkbox"/>		
Mound	<input type="checkbox"/>		
Evapo-transpiration Beds	<input type="checkbox"/>		
Other	<input type="checkbox"/>	Specify	

5. Please identify the loading rate you propose for the option selected in Part H, Section 4 above, stating the reasons for selecting this loading rate:

Loading Rate	2	(Litres/m ² /day)
Disposal Area	Design	5500 (m ²)
	Reserve	4360 (m ²)

Explanation (Refer TP58 Sections 9 and 10)

Design irrigation rate for secondary treated effluent in TP58 'Category 6' soils using conservative loading rate.

6. What is the available reserve wastewater disposal area (Refer TP58 Table 5.3)

Reserve Disposal Area (m ²)	4,360
Percentage of Primary Disposal Area (%)	80

7. Please provide a detailed description of the design and dimensions of the disposal field and attach a detailed plan of the field relative to the property site:

Description and Dimensions of Disposal Field:

For a 57-person occupancy, 5,500 m length of trickle tubing installed as per manufacturer's recommendations.
Dripper lines to be spaced at 1.0m between lines.

Plan Attached?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	(Please tick)
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If not, explain why not

PART I: Maintenance & Management

(Refer TP58 Section 12.2)

1. Has a maintenance agreement been made with the treatment and disposal system suppliers?

Yes		No	<input checked="" type="checkbox"/>	(Please tick)
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Name of Suppliers

Innoflow

PART J: Assessment of Environmental Effects

1. Is an assessment of environmental effects (AEE) included with application?

(Refer TP58 section 5. Ensure all issues concerning potential effects addressed)

Yes	<input checked="" type="checkbox"/>	No		(Please tick)
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If Yes, list and explain possible effects

PART K: Is Your Application Complete?

1. In order to provide a complete application you have remembered to:

Fully Complete this Assessment Form	<input checked="" type="checkbox"/>
Include a <i>Location Plan</i> and <i>Site Plan</i> (with Scale Bars)	<input checked="" type="checkbox"/>
Attach an Assessment of Environmental Effects (AEE)	<input checked="" type="checkbox"/>

1. Declaration

I hereby certify that, to the best of knowledge and belief, the information given in this application is true and complete.

Name	<i>Ben Richardson</i>	Signature	
Position	<i>Civil Engineer</i>	Date	<i>29/08/2025</i>

Note

Any alteration to the site plan or design after approval will result in non-compliance.