

# Flood Assessment Certificate

## FC240540



Issued pursuant to NH-SCHED1 of the Partially Operative Selwyn District Plan.

Property Address:	Rosemerryn - Stage 21B & 23A
Legal Description:	Lots 827-831 & 854-875 DP 608596
Date of Issue:	01 November 2024
This certificate is valid until:	01 November 2026

This site is not located on land within a high hazard area.

The site is likely to be subject to inundation in a 200-year Average Recurrence Interval (ARI) flood event.

Minimum finished floor level shall be:

Lot Number	FFL (LVD37)	Lot Number	FFL (LVD37)
827	9.77	862	9.86
828	9.77	863	9.81
829	9.77	864	9.79
830	9.77	865	9.78
831	9.77	866	9.78
854	9.77	867	9.78
855	9.78	868	9.78
856	9.78	869	9.78
857	9.78	870	9.79
858	9.78	871	9.77
859	9.80	872	9.77
860	9.85	873	9.77
861	9.91	874	9.80
		875	9.80

### Disclaimers:

- Whether the site is likely to be subject to inundation in a 200-year ARI flood event, and the minimum finished floor level have been determined with reference to:
  - The most up to date models and maps held by Selwyn District Council or Canterbury Regional Council;
  - Any relevant field information; and
  - Any site specific flood assessment prepared by a suitably qualified and experienced person, including a site specific Flood Hazard Assessment prepared by Canterbury Regional Council.
- This certificate is based on the best information available to Selwyn District Council at the time the certificate was issued. This information is subject to change and may be updated at any time, including during the valid period of this certificate. Selwyn District Council accepts no liability for changes in this information.

3. This certificate relies on flood modelling. Flood modelling is a tool that predicts what might happen in a flood event of a given magnitude. A flood model uses hypothetical scenarios and makes assumptions about how a flood event might unfold however there are many more variables that can influence how a site is affected in an actual flood event. The minimum finished floor level does not infer that no damage will occur to a structure built above the minimum finished floor level in a flood event.
4. The Building Act 2004 also manages flood risk. The minimum floor level certified under the Partially Operative District Plan may be different to the floor level required by the Building Act 2004, which must be met in order to obtain a building consent.
5. Any activity or construction carried out on a site where a Flood Assessment Certificate is issued is carried out at your own risk, and Council recommend that you carefully consider the impact of any flooding risk associated with this site.

**Advice notes:**

- a) For a new residential unit or principal building or the alteration of, or addition to any residential unit or principal building to be a permitted activity under the Selwyn District Plan as a whole, all other relevant rules must be complied with.
- b) If the certified level is for a particular location on the site, the certified level is the minimum floor level for the proposed building location shown on the attached plan. If you wish to build elsewhere on the site the minimum floor level may be different, and you will need to request another certificate for the new location.
- c) For the purposes of this certificate, ground level means:
  - a. The actual finished surface level of the ground after the most recent subdivision that created at least one additional allotment was completed (when the record of title is created);
  - b. If the ground level cannot be identified under paragraph (a), the existing surface level of the ground;
  - c. If, in any case under paragraph (a) or (b), a retaining wall or retaining structure is located on the boundary, the level of the exterior surface of the retaining wall or retaining structure where it intersects the boundary.
- d) You must reference this certificate when applying for a building consent or the building consent will not be accepted.

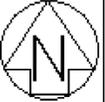
Signed for and on behalf of the Selwyn District Council:



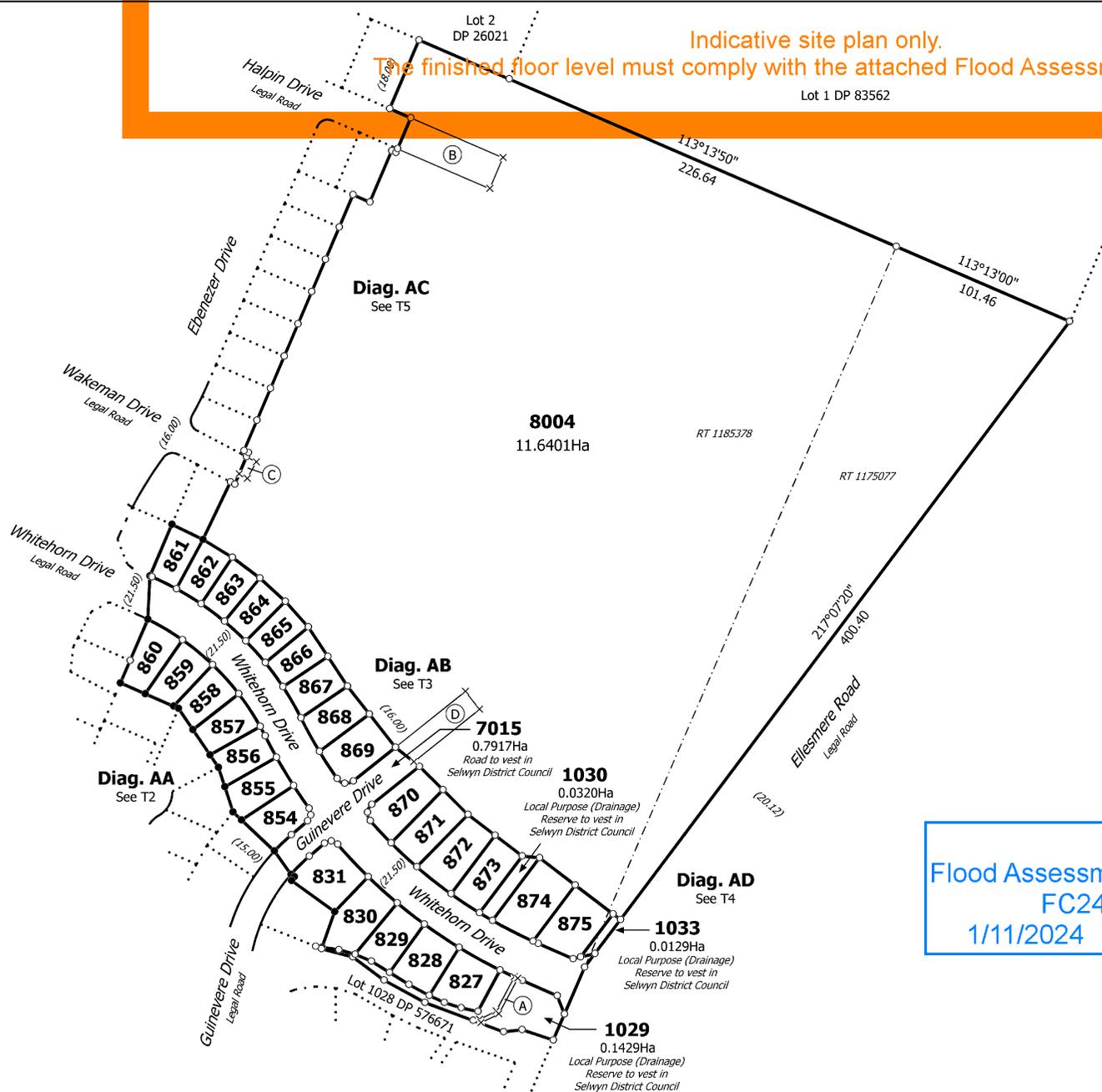
Emma Larsen

**Head of Resource Consents**

Diag. A



Indicative site plan only.  
The finished floor level must comply with the attached Flood Assessment Certificate



Flood Assessment Certificate  
FC240540  
1/11/2024 - holdam

E20764  
RC's 225391 & 235824

T 1/5

Land District: Canterbury

Lots 827 - 831, 854 - 875, 1029, 1030, 1033, 7015 & 8004 being subdivision of  
Lot 1 DP 602204 & Lot 8003 DP 604703

Surveyor: Nicholas Johan Jagvik  
Firm: Davie Lovell-Smith Ltd

Title Plan  
LT 608596  
Approved on: 15/10/2024

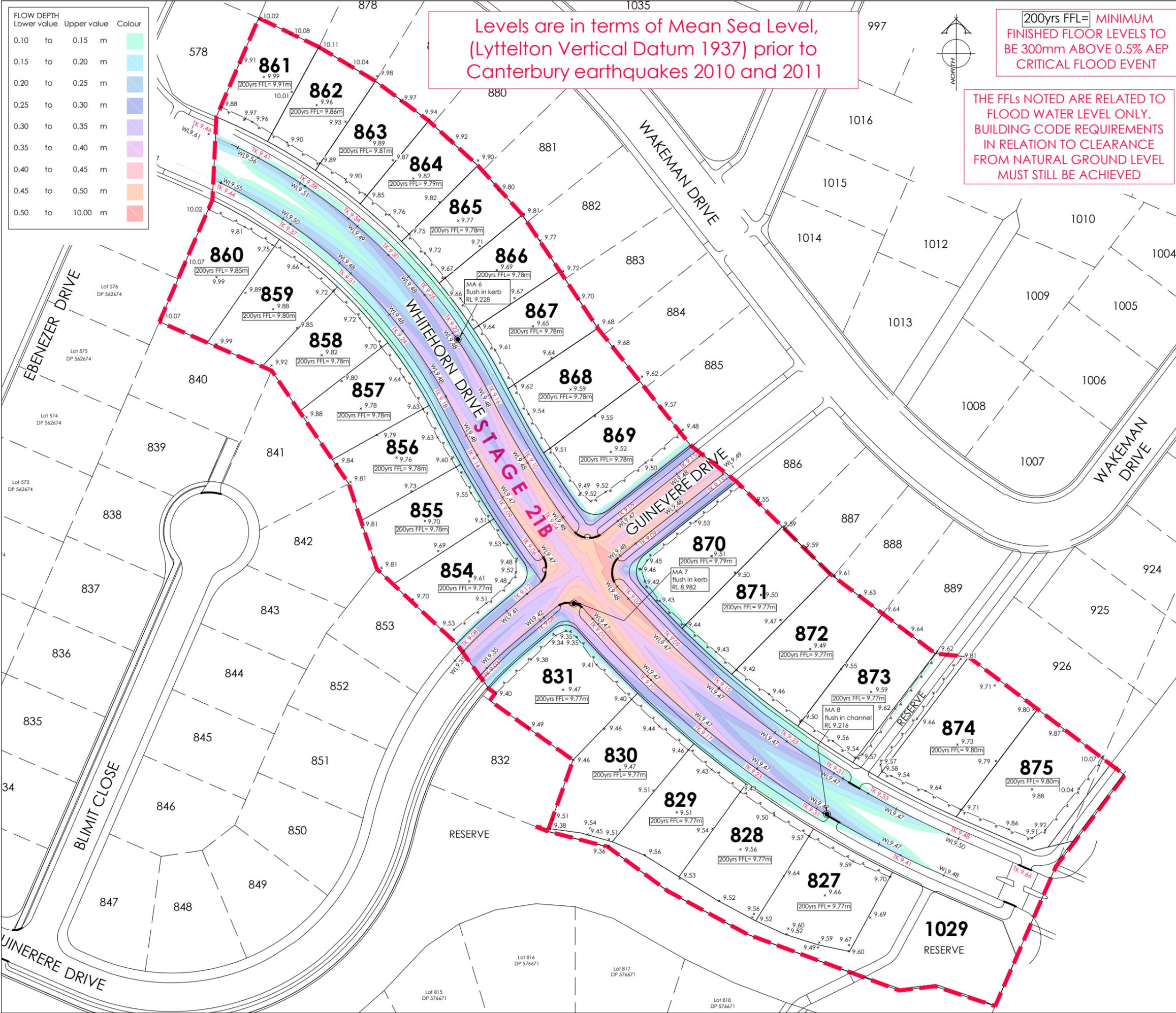
Digitally Generated Plan  
Generated on: 15/10/2024 09:43am Page 5 of 9

Levels are in terms of Mean Sea Level, (Lyttelton Vertical Datum 1937) prior to Canterbury earthquakes 2010 and 2011

200yrs FFL= MINIMUM FINISHED FLOOR LEVELS TO BE 300mm ABOVE 0.5% AEP CRITICAL FLOOD EVENT

THE FFLS NOTED ARE RELATED TO FLOOD WATER LEVEL ONLY. BUILDING CODE REQUIREMENTS IN RELATION TO CLEARANCE FROM NATURAL GROUND LEVEL MUST STILL BE ACHIEVED

FLOW DEPTH	Lower value	Upper value	Colour
0.10 to 0.15 m	0.10	0.15	Light Green
0.15 to 0.20 m	0.15	0.20	Light Blue
0.20 to 0.25 m	0.20	0.25	Blue
0.25 to 0.30 m	0.25	0.30	Dark Blue
0.30 to 0.35 m	0.30	0.35	Purple
0.35 to 0.40 m	0.35	0.40	Light Purple
0.40 to 0.45 m	0.40	0.45	Pink
0.45 to 0.50 m	0.45	0.50	Orange
0.50 to 10.00 m	0.50	10.00	Red



AMENDMENT	DATE	DESCRIPTION

NOTES:  
THIS PLAN HAS BEEN PREPARED FOR THE USE OF SELWYN DISTRICT COUNCIL AND IS NOT TO BE PROVIDED TO ANY OTHER PARTIES. NO LIABILITY IS ACCEPTED IN RELATION TO ANY OTHER PARTIES.

THIS FLOOD ANALYSIS HAS BEEN COMPLETED USING THE 2D ROADFLOW SURFACE FLOW MODULE IN THE 12D DESIGN SOFTWARE. 2D ROADFLOW IS BASED ON RAIN ON GRID ANALYSIS AND ALLOWS MODELLING OF COMBINED DRAINAGE NETWORK FLOWS AND SURFACE FLOWS.

PARAMETERS HAVE BEEN SET IN ACCORDANCE WITH WATERWAY, WETLANDS, AND DRAINAGE GUIDE (WWDG) 21-4, ADVANCED ANALYSIS.

THE INPUTS REQUIRED FOR THIS PROGRAMME ARE:  
- MANNING'S N VALUE (WWDG TABLE 22-1)  
- RAINFALL INTENSITY (HIRDS V4)  
- DESIGN SURFACE MODEL (12D TIN)  
- DESIGN STORMWATER NETWORK (12D DESIGN)  
- INFILTRATION RATES (WWDG TABLE 21-10)  
- PONDING DEPTHS (WWDG TABLE 21-7)

USING THESE INPUTS, THE ANALYSIS SOFTWARE CREATES A SURFACE OF SQUARE CELLS (GRID TIN) THAT HAVE A DEPTH AND SLOPE. THIS ALLOWS FOR FLOW TO PASS TO ADJACENT LOWER CELLS. THE DRAINAGE NETWORK IS HYDRAULICALLY LINKED TO THE GRID TIN ALLOWING SURCHARGING OF THE PIPED NETWORK IN ADDITION TO FLOW THROUGH THE SURFACE CELLS.

- A RAINFALL HYETOGRAPH HAS BEEN FORMED IN ACCORDANCE WITH FIGURE 21-6 WITH A MAXIMUM INTENSITY OF TWO TIMES THE AVERAGE INTENSITY OCCURRING AT 70% OF THE STORM DURATION.  
- INFILTRATION HAS BEEN SET IN ACCORDANCE WITH WWDG TABLE 21-10 FOR POORLY DRAINING SOILS.  
- PONDING IN PERVIOUS AREAS HAS BEEN SET AT 5MM AND IN IMPERVIOUS AREAS 2.5MM AS DEFINED BY TABLE 21-7 IN THE WWDG.

THIS PLAN HAS BEEN PREPARED TO SHOW ASBUILT LOT LEVELS FOR FLOOD ASSESSMENT CERTIFICATE PURPOSES. NO LIABILITY IS ACCEPTED IF THE PLAN IS USED FOR ANY OTHER PURPOSE.

ANY MEASUREMENTS TAKEN FROM INFORMATION WHICH IS NOT DIMENSIONED ON THE ELECTRONIC COPY ARE AT THE RISK OF THE RECIPIENT.

ORIGIN OF LEVELS:  
SS 11A SO 797  
BRASS PLAQUE  
RL=9.42m

ALL LEVELS IN TERMS OF LYTTELTON VERTICAL DATUM 1937. LEVELS PRE 2010 & 2011 CANTERBURY EARTHQUAKES.  
LEGEND:

- 200yrs FFL=9.70m MINIMUM FINISHED FLOOR LEVEL
- WL=35.63 50min 200 YEARS WATER LEVELS
- x 9.87 ASBUILT GROUND LEVEL
- x TK 9.87 ASBUILT TOP OF KERB LEVEL
- x WL 9.87 WATER LEVEL
- ASBUILT TOP OF BANK
- ASBUILT KERB

EXISTING SERVICES	PROPOSED SERVICES
KERB	KERB

DESIGNED BY	NAME	SIGNED	DATE
JALAY SHAH			

CHECKED BY	NAME	SIGNED	DATE
ANDY HALL			



**DAVIE LOVELL-SMITH**  
PLANNING SURVEYING ENGINEERING

116 Wrights Road P O Box 679 Christchurch 8140. New Zealand  
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:  
**Fulton Hogan Land Development Ltd.  
Rosemeryn - Stage 21B**

SHEET TITLE:  
**Asbuilt Lot Levels Plan**

DRAWING STATUS:  
**For Flood Assessment Certificate**

SCALE: 1:500@A1 DATE: November 2024  
1:1000@A3

CAD FILE: J:\2026\ASBUILTS\STG 21B\LEVELS STG 21B.R0 (WITH N...)  
DRAWING No: E.20764 SHEET No: AB.FL 01 REVISION: R0