



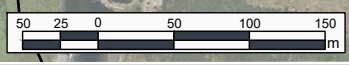
NOTES

1. Topographical and other physical features shown are based on surveys performed by Land Matters in July 2020 using GNSS, Unmanned Aerial Vehicle (UAV) using structure from motion processing and LIDAR data sourced from Horizons Regional Council.
2. Estimated accuracy of the model in areas captured by Land Matters via UAV is +/- 0.2m and possibly greater where there is significant differences in relief and/or significant vegetation. Contours are to be interpreted with the imagery to identify such features.
3. Estimated accuracy of the model in areas sourced from Horizons Regional Council LIDAR data is +/- 0.5m and possibly greater in areas of dense vegetation. Any critical levels in these areas will need to be verified via conventional survey.
4. Extrapolation or interpolation of levels may not be appropriate or accurate.
5. This plan is issued for a specific project and may not be altered or used for any other purpose without the prior written consent from Land Matters.
6. Site boundaries shown have been calculated to Cadastral Standards (excluding Water Boundaries along the coast and Ohau River). Water boundaries have been interpolated from underlying plans and/or LINZ XML data.
7. Background Aerial Photography has been sourced from LINZ Data Service and is licensed under Creative Commons 4.0
8. Some data/labels are in hidden layers for clarity.
9. Horizontal Datum:
NZGD 2000
Wanganui Circuit
Origin of Coordinates:
IB XI DP 48282 (F2H0)
755 043.886 mN
373 794.464 mE
Source: LINZ Geodetic Database
10. Vertical Datum:
Wellington Vertical Datum 1953
Origin of Levels:
IB XI DP 48282 (F2H0)
RL 6.908m
Source: LINZ Geodetic Database (Height Conversion)
11. Contour Intervals:
Major Interval: 2.50m ——— 10.0 ———
Minor Interval: 0.50m ——— 9.5 ———

LEGEND:

- Boundary
- Heights Generated from UAV
- Heights Generated from HRC LIDAR
- Check Shots v Model
- +ve = Above Model
- ve = Below Model

x 0.02
x -0.02



PREPARED BY 	CLIENT GRENADIER DEVELOPMENTS LIMITED	PROJECT DOUGLAS LINKS - OHAU	DRAWING TITLE TOPOGRAPHICAL SURVEY	DATE 28/7/2020	PROJECT NO. 709
				SCALE 1:2500 @ A1 1:5000 @ A3	REV -
				DRAWING NO. 709-100	REV -



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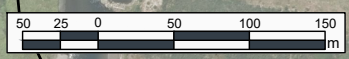
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PREPARED BY



LAND MATTERS

CLIENT

GRENADIER DEVELOPMENTS LIMITED

PROJECT

DOUGLAS LINKS - OHAU

DRAWING TITLE

TOPOGRAPHICAL SURVEY DATA SOURCES

DATE	28/7/2020	PROJECT NO.	709
SCALE	1:2500 @ A1 1:5000 @ A3	DRAWING NO.	709-102
REV	-	REV	-



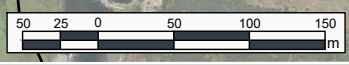
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Check Shot Statistics:	
UAV Generated Model v Check Shots (Open Country)	
Number of Shots:	429
Average Difference:	-0.060m (Check shots lower than model)
Max Difference:	0.156m
Min Difference:	-0.274m
Std Deviation:	0.056m
LiDAR Generated Model v Check Shots (Vegetated Areas)	
Number of Shots:	163
Average Difference:	-0.076m (Check shots lower than model)
Max Difference:	0.851m
Min Difference:	-1.248m
Std Deviation:	0.307m

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C:\12\sd\data\LM-DATA\709 - Grenadier Developments Limited - Douglas Links - Ohau_786\10 Plans, Aerials, CAD\709-Contours-17 Jul 2020.dwg, Plotted by Evan Pinfold at 28/07/2020 1:15:05 PM