

**RENEWAL SURVEY REPORT FOR LOT 2 L.R. 276 PN: 190-
001-0072 AT
TAKABORI WEST GUADALCANAL.**



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1.0	INTRODUCTION	3
2.0	PURPOSE.....	3
3.0	SURVEY DATUM.....	3
4.0	TOPOGRAPHIC & AERIAL SURVEY.....	3
4.1	SCOPE OF WORKS.....	3
4.2	DATA AND EQUIPMENTS	3
4.3	METHODOLOGY.....	3
5.0	FINDINGS AND RESULT	4
5.1	ROAD.....	4
5.2	BUILDING AND SETTLEMENTS.....	4
5.3	BOUNDARY PEGS	5
5.4	BOUNDARY PEGS COORDINATES COMPARISION	7
6.	CADASTRAL INFORMATION	7
7.	PLAN SCALES DETAILS	7
	SUBMISSION & DELIVERABLES.....	7
8.	CONCLUSIONS.....	8

1.0 INTRODUCTION

The team was hired by the Client to carry out a Renewal Boundary identification and detail layout survey of PN 190-001-0072 LOT 2 of L.R 276 located at Takabori, West Guadalcanal.

Refer to **Appendix 1** for the Detail Site Layout Plan.

2.0 PURPOSE

The surveying of Parcel 190-001-0072 is to identify the cadastral boundary markers of Lot 2 and mark out their location found or lost with indicatory markers. And to also produce a detail layout plan of the existing subject property and any development along or within the boundary line.

3.0 SURVEY DATUM

The local datum, GUX1 ASTRO; of the Universal Transverse Mercator (UTM Zone 57) Coordinate System and is adapted for this survey.

Survey Control Information

STATION	EASTING	NORTHING	HEIGHT	REMARKS
GUY8	583715.3	8973502.34	59.9	Trig Pillar

4.0 TOPOGRAPHIC & AERIAL SURVEY

4.1 SCOPE OF WORKS

- Pickups of road networks along the survey periphery.
- Re-identify boundary pegs
- Pickups of all existing structures in the survey periphery (Existing building positions, Existing fence line and distances).
- And to compile a detail survey report with detail drawing.

4.2 DATA AND EQUIPMENTS

All ground field data were electronically downloaded in to the CHC Nav Data Collector (iBase and I89 rover) and all computations were done using an android phone App. And all aerial images were captured by DJI Mavic Mini. The data were later downloaded from the Data recorder and uploaded on to a computer and Global Mapper and QGIS to produce drawing plans.

4.3 METHODOLOGY

Firstly, A GNSS base shift function is done at GUY8 station within perimeter set and stake out check. The check observed with a 0.015m Horizontal Distance (HD) reading which is an acceptable for standard accuracy for the survey.

A ground Control TR1 is established on the site by RTK GNSS. All details were marked and picked by GPS RTK using the I89 rover, the ancillary dimension measurements are taken using a measuring tape, and the team made sketches. All aerial images were captured from a single flight.

5.0 FINDINGS AND RESULT

5.1 ROAD

The main access road runs at 857.694 m from east to west of Lot 2 and is Located on the North Frontage of the Property with two Boundary marker on both ends on the centre line indicatory as the Property line.



Figure 1.0

5.2 BUILDING AND SETTLEMENTS

There are 21 existing building structures located on the property with some been permanent to home man structures. They are located using drone aerial and pickup from GNSS i89 rover. (See attach drawing Appendix 3)



Figure 1.2



Figure 1.3

5.3 BOUNDARY PEGS

The main boundary marker for Lot 2 L.R. identified are 8 corner boundary marker they are; MDX, MD9, MD5, MD59 (from the western end) and P75, P76 and line intersection point "ISP" (no name-see c-series WK8172, WK8173 & WK8174) through to the road centre line inter-section point TL4.

For the frontage the Centreline boundary markers MDX and TL4 are identified on the road as shown on the following (figures 1.4 & Figure 1.5). MDX is marked with a 50cm square cube rod and tagged with yellow spray paint and TL4 is marked up with yellow spray mark on the road bitumen.



Figure 1.4



Figure 1.5

The western end boundary markers MD9, MD5 and MD59 are found in their fixed position. MD9 is a u rod in concrete found in good condition (Figure 1.6 & Figure 1.7); MD5 and MD59 are also found in good condition and both a concrete 100mmX100mm with a still rod in the centre (Figure 1.8)



For the Back boundary markers; P75 (Figure 1.9); is not found on its original coordinate and it is replaced by a square rod in grounded and marked up with yellow tagged spray paint. P76 however is find in good fixed condition (concrete 100mmX100mm rod in center- Figure 2.0); For the unknown intersection (ISP) line (Figure 2.1); an indicatory mark a square cube rod in placed and tagged yellow spray marked up.



5.4 BOUNDARY PEGS COORDINATES COMPARISON

Peg ID	Original Coordinates (m)		Replaced/Found Coordinates (m)		Standard deviation (m)	
	Easting	Northing	Easting	Northing	ΔEasting	ΔNorthing
MDX	581487.2	8974402.171	581487.18	8974402.18	0.02	-0.009
MD9	581331.832	8973986.989	581331.783	8973987.102	0.049	-0.113
MD5	581155.027	8973594.801	581154.97	8973594.801	0.057	0
MD59	581144.811	8973399.868	581144.67	8973399.89	0.141	-0.022
P75	581437.197	8972939.517	581437.262	8972939.515	-0.065	0.002
P76	581430.984	8973403.775	581430.991	8973403.773	-0.007	0.002
ISP	581826.251	8972944.799	581826.26	8972944.83	-0.009	-0.031
TL4	582022.815	8973852.663	582022.800	8973852.678	0.015	-0.015

6. CADASTRAL INFORMATION

According to the Instruction to Survey 32/86 the boundary of parcel 190-017-0038 was surveyed in 1986 as Lot 2 of LR 276 and drawn to Cadastral-series Plan WK8172, WK8173 & WK8174.

7. PLAN SCALES DETAILS

The Site Detail Survey Plan Scale is Not to Scale
There are 3 survey plans attached, refer to **appendix 1-3**.

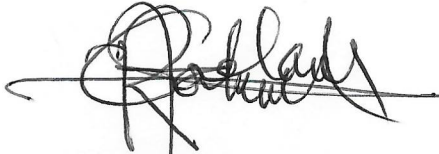
SUBMISSION & DELIVERABLES

1. Drawing_1_Detail Layout Plan-Layout1-Apendix1.pdf
2. Drawing_2_Cadastral Plan-Layout2- Apendix2.pdf
3. Drawing_3_Aerial Plan-Layout3- Apendix3.pdf
4. A Survey Report. Pdf

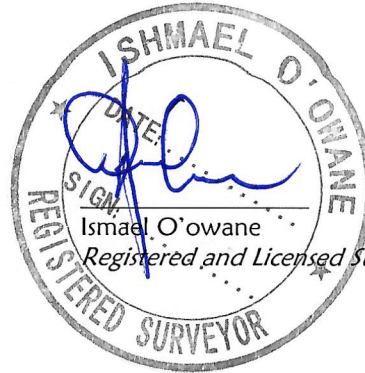
8. CONCLUSIONS

The team was able to successfully execute this survey without much hiccups. Every effort was made to apply sound surveying practice with the aim of exceeding relevant minimum surveying accuracy standards.

The team is confident that the requirements for the job were delivered.



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