

10.1 RSO SHEET

Survey data are compiled in Brunei Survey Spatial Data Infrastructure.

10.1.1 Numbering System

The numbering of RSO Sheet is based on the metric Geocentric RSO coordinates. It consists of Six digits. The first two digits represent the first digits of Easting and Northing coordinates followed by a slash. The next four digits represent the 2nd and 3rd of Easting and Northing coordinates.

Example 55/7439 E 574000 N 539000

10.1.2 Sheet Size

The Standard Survey Sheet shall be produced on 48 X 62 cm size, paper at a scale of 1:2500. The margin lines are 1000 metres intervals of the Borneo R.S.O Grid, with lines at 100 m intervals.

10.1.3 Point Database

Coordinates shall be updated in Point Database.

10.2 SURVEY PLANS

10.2.1 Plan Form

All survey plans shall be produced on stable transparent draughting materials as approved by the Surveyor General (SG) with the sizes as follows;

SURVEY PLAN		SIZE	DISTRICT CODE/ABBREVIATION	
Gazette	GP	A2	Brunei Muara	BM
Certified	CP	A2	Tutong	TU
Misc	MP	A2	Belait	KB
TOL	TL	A2	Temburong	TE
Restricted	GT	A2		
Museum Gazette	GM	A2		

10.2.2 Numbering System

- The numbering system of the plans consists of six digits and four Letters. The first two letters in front represents the type of the Survey plan and the last two letters represent the location of the plan (District). The first two digits in the middle indicating the year of the plan plotted and the last four digits indicating the total number of plans plotted in the year.

Example :

GP080001BM CP080002TU MP080012KB TL080013TE GT080014BM GM080015BM

- b. Each plan shall carry one unique number

10.2.3 Scales

All plans shall be plotted at one of the following scales. Such scale is being chosen as best fit the plans form sizes laid down as follows :

Scale 1:100, 1:250, 1:500, 1:1000, 1:1250, 1:2000 1:2500, 1:5000, 1:10000,
1:12500, 1:15000, 1:20000, 1:25000, 1:50000

10.2.4 Bearing and Distances

- a. All bearing and distances shall be written legibly against the lines to which they apply except where limitations on space prevent this, in which case inserts shall be used as prescribed herein
- b. All bearings shall be quoted as whole circle bearings in the Sexagesimal (360°) system and all the distances in metres

10.2.5 Area

- a. The area of any Lot and the access Reserves shall be written as close to the centre of the Lot as possible and shall be quoted to four significant figure in hectares only.
- b. Example : 0.1234 ha., 1.234 ha. 12.34 ha., 123.4 ha., 1234 ha

10.2.6 Inset

Where on any part of the plan, measurement or details would otherwise be illegible or difficult to interpret, a diagram on a larger scale or diagram not to scale shall be added as an insert or the information suitably tabulated

10.2.7 Plotting

- a. The plan shall be taken up such that the North is in the longer direction of the sheet. No deviations shall be permitted in this regards even in the inserts. The plotting shall be done by Geocentric R.S.O coordinates. If Geocentric R.S.O coordinates are not available, it shall be referred to Surveyor General (JUA) for further instruction. General format of the plan is given in the attached specimen.
- b. All information on the plan shall be produced. Coloured ink or washes will not be used for any purpose.
- c. Line Widths

Standard line shall be used as follows: -

- i. Boundary of Lot under Survey. 0.70 mm
- ii. Peripheral Boundary of Land under Survey and Boundary of Lot(s) in insert. 0.50 mm
- iii. Traverse and shooting line by interrupted line 0.20 mm
- iv. Non boundary Features and boundaries of new lots and unaffected Lots in insert e.g.

- roads, rivers etc. 0.25 mm
- v. Plan margin & Insert Margin. 0.70 mm
- vi. Geodetic line 0.25 mm
- vii. Non-Scale line shall be indicated by a single break of 5 mm
- viii. Other line features, see Appendices
- ix. The Geocentric R.S.O (Metric) grid coordinates shall be shown by cuts on the line orders of the plan at intervals not more than 10cm. All cuts shall be 2mm long and represent intervals of 100m, 50m or 10m as appropriate to the scale used.

d. Symbols

Standard symbols shall be used as follows:-

- i. Boundary Marks shall be shown as circle of 1.5 mm diameter, the centre of the circle representing the mark. Found boundary mark shall be shown in solid circle. Found and replace boundary mark shall be shown as a circle with the dot in the centre. " No Mark " shall be shown as a dot
- ii. Survey Geodetic Stations: Inner Circle 1.0mm diameter and outer circle of 2.0mm diameter.
- iii. Trigonometrical Stations: Triangles of 3.0 mm side lengths, the centre of the triangle representing the station.
- iv. Buildings: The surveyed roof lines shall be drawn.
- v. Hedges, Fences and Walls: By the normal conventional signs as shown in the Appendices

e. Text

- i. All written information shall be permitted in such a way as will induce reading from left to right.
- ii. All bearings shall be written above the line where possible.
- iii. All distances shall be written below the line where possible.
- iv. All bearings, distances and other information shall follow the data obtained from the field books.

f. Abbreviations

Standard abbreviation shall be used as follows:-

- i. Boundary marks Refer to Part VIII
- ii. The front O or N can be omitted, if the symbol '●' or '○' which represents the Old mark and the New Mark respectively, is used
- iii. Other Abbreviation
 - Bearing and distances computed/ Calculated.....(c)
 - Deduced distance..... (d)
 - Adopted Bearing.....(Ad.Brg.)
 - Bearing Closed.....(Brg.Closed)

g. Other written information shall be of a size consistent with clarity and neat appearance.

10.2.8 Plan Information

- a. For plans involving subdivision / consolidation surveys, an insert plan at the reduced scale (1:2500) shall be drawn where possible to indicate the parent lot(s) and the resulting changes.

- b. In addition to boundaries and geodetic survey information, the following details shall be plotted: -
- i. The roof lines of all buildings lying within or partly within the Lot (s) being surveyed.
 - ii. All roads, tracks, footpaths, fences, hedges and bridges lying within, passing through or immediately adjacent to the Lot(s) being surveyed shall be suitably annotated. Road names junctions where known, are to be written on the plan.
 - iii. All rivers, streams, ditches, drains with direction of flow and names where appropriate.
 - iv. Right of Way (ROW) given by Land Office shall be drawn.

10.2.9 Signatures

The signatures of the draughtsperson, Checker, and Surveyor General and the date it is signed shall be shown on the plan. The signature of the Licensed Land Surveyor shall also be shown on the plan, if the job is undertaken by a private Licensed Land Surveyor

10.3 PREPARATION OF TITLE DIAGRAMS (RGT)

10.3.1 Extract from the District register requirements

EDR requirements are as follows;

- a. A diagram drawn to scale showing boundaries, Lot number and area. Line and symbol type shall be the same as in the Certified Plan (CP) specification.
- b. A heading giving North Point, Kampung, Mukim and the District's name and the scale of the Diagram.
- c. The signatures of the Draughting person, checker and Surveyor General and the date it is signed.

10.3.2 Redraughting of Title Diagrams

Redraughting of title-diagrams may be prepared only when: -

- a. The original has been gazetted as cancelled or lost or wholly or partially destroyed.
- b. The original has been received for destruction.
- c. The Land Office has given a written guarantee that the original will be destroyed.

10.4 RECORDS

10.4.1 Safe guarding

- a. Adequate precautions must always be taken for the safeguarding of permanent records such as survey files (SP), field books, plans, survey sheets, calculations' volumes and digital storage. Where possible a fireproof strong room (PMG/BMG) shall be provided.

- b. The Surveyor General or the officer in charge of the records shall provide detail instructions / informations, so that any records issued and the responsibility for loss and damage can be traced and identified. All specified records must be returned to the Strong Room (PMG/BMG) as soon as possible

10.4.2 Prohibition

The removal of any record from the Survey Department is strictly prohibited and exception to this rule may be made only in compliance with an order of the Court. For that purpose, a certified copy of Court order is to be supplied.