

INDEPENDENT STATE OF PAPUA NEW GUINEA.

CHAPTER NO. 203.

*Survey Co-ordination.*

GENERAL ANNOTATION.

ADMINISTRATION.

As at 13 February 1976 (the date of gazettal of the most comprehensive allocation of responsibilities to Ministers and Departments at about the effective date), the administration of this Chapter was vested in the Minister for Natural Resources.

Accordingly, as at that date, except where a different intention is clearly indicated, by note or in the text, references in and in relation to this Chapter to—

“the Minister”—should be read as references to the Minister for Natural Resources;

“the Departmental Head”—should be read as references to the Secretary for Natural Resources<sup>1</sup>;

“the Department”—should be read as references to the Department of Natural Resources<sup>2</sup>.

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<sup>1</sup> Previously the Director of Lands, Surveys and Mines.

<sup>2</sup> Previously the Department of Lands, Surveys and Mines.

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INDEPENDENT STATE OF PAPUA NEW GUINEA.

CHAPTER NO. 203.

*Survey Co-ordination Act.*

ARRANGEMENT OF SECTIONS.

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INDEPENDENT STATE OF PAPUA NEW GUINEA.

CHAPTER NO. 203.

*Survey Co-ordination Act.*

Being an Act to provide—

(a) for the co-ordination of surveys; and

(b) for the establishment of a Central Plan Office for the recording of surveys and plans, and information relating to surveys and plans,

and for related purposes.

1. Interpretation.

In this Act, unless the contrary intention appears—

“the Central Plan Office” means the Central Plan Office established under Section 3;

“the Central Plan Register” means the Central Plan Register established under Section 8;

“establishment”, in relation to a permanent mark, means the precise determination of the position of the mark in relation to a triangulation survey of the country or to a local triangulation survey or standard traverse;

“Government land” means Government land as defined in the *Land Act*, and includes land reserved or deemed to be reserved from lease or further lease under that Act that has not been placed, under Section 26 of that Act, under the control of trustees who are a public authority;

“liaison officer” means an officer, member or employee of a public authority appointed by it as a liaison officer for the purposes of this Act;

“permanent mark” means a permanent mark placed, adopted or established under this Act;

“plan” includes a survey plan, map, aerial photograph or description made or obtained as part of a survey or surveys;

“privately-owned land” means land other than Government land;

“public authority” includes a Department of the Government, a Local Government Council and a board, commission, trust or other body, corporate or unincorporate, established or constituted by or under an Act for a public purpose that is authorized or required by or under any law to make surveys, or any functions of which are such as to require surveys to be made by it or plans to be lodged with it;

“recorded plan” means a plan a record of which has been entered in the Central Plan Register under this Act;

“the regulations” means any regulations made under this Act;

“standard survey mark” includes a survey monument or reference mark whose relative position to permanent marks has been or is proposed to be established to the satisfaction of the Surveyor General;

“survey” means the act or process of determining with regards to the earth’s surface—

(a) the form, contour, position, area, height, depth or other similar particulars of—

(i) a part of the surface, whether on land or water; or

(ii) a natural or artificial feature on, below or above any part of the surface; or

(b) the length and direction of the bounding lines of—

(i) a part of the surface; or

(ii) a natural or artificial feature of the surface,

and includes the making or obtaining of a plan or plans of the surface, including an aerial survey;

“surveyor” means a person performing an act or process of surveying;

“this Act” includes the regulations.

**2. Delegation.**

The Minister may, by instrument under his hand, delegate to a person all or any of his powers and functions under this Act.

**3. Central Plan Office.**

There shall be a Central Plan Office in the Office of the Surveyor General.

**4. Information as to surveys, etc.**

(1) As soon as practicable a public authority shall appoint a suitable person as its liaison officer for the purposes of this Act, and shall notify the Surveyor General of the appointment.

(2) The Surveyor General may make such inquiry of a public authority as he considers necessary for ascertaining the types of surveys carried out and of plans held by the authority.

(3) The Surveyor General may, by written notice, require a liaison officer to forward to him within the time specified in the notice, or within such further time as the Surveyor General allows, such particulars of the plans made, obtained or held by his public authority relating to such types of survey as are respectively specified in the notice.

(4) The liaison officer to whom a notice has been given under Subsection (3) shall cause a correct and complete list to be compiled setting out the particulars required by the notice, and forward it to the Surveyor General within the time specified in the notice or within such further time as the Surveyor General allows.

**5. Notice of intention to commence new surveys.**

(1) Subject to Subsection (2), a public authority shall, before commencing a survey of a type with respect to which the Surveyor General has, under Section 4, required its liaison officer to forward to him particulars of plans, deliver or forward to the Surveyor General notice, in the prescribed form, of the intention of the public authority to commence the survey.

(2) Where it is impracticable by reason of the urgency of any particular survey to give notice in accordance with Subsection (1), notice of the commencement of the survey shall

be given by the public authority to the Surveyor General as early as is practicable in the circumstances.

6. Connexion of proposed surveys to existing surveys, etc.

(1) Subject to Subsection (2) but without limiting the generality of the provisions of this Act relating to surveys in or contiguous to survey areas declared under Section 11, the Surveyor General may, by written notice addressed to the liaison officer of a public authority, require that—

- (a) a survey being carried out or proposed to be carried out by the public authority be connected to an existing local or general survey; and
- (b) any plan of the survey based on a datum as to levels other than the standard datum show the correction required to reduce the levels to the standard datum; and
- (c) the survey be connected to any permanent mark or marks already placed, adopted or established; and
- (d) the surveyor carrying out the survey, or where the survey is a survey other than an authorized survey as defined by the *Survey Act* the person carrying out or supervising the survey on behalf of the public authority, cause permanent marks of the prescribed kind to be placed within or adjacent to the area to be surveyed as the Surveyor General directs; and
- (e) a true copy of—
  - (i) any plan made or obtained as part of the survey, showing the date of the survey; and
  - (ii) any sketch plan showing the position of permanent marks placed and the connexion (if any) of the survey to a local or general survey or to any permanent mark or marks already placed, adopted or established, certified as correct by the surveyor or other person specified in Paragraph (d) be forwarded to the Surveyor General within one month after the preparation of the plans; and
- (f) the original of any plan referred to in Paragraph (e) be made available to the Surveyor General for inspection.

(2) The Surveyor General is not entitled to require, under Subsection (1)(a) or (c), a survey to be connected to any existing survey or to any marks where the connexion would require a measured traverse of more than 5 000 m.

(3) The Surveyor General is not entitled to require, under Subsection (1)(e), a public authority to forward to him any plan or copy of a plan of a survey based on a datum as to levels until the work to which the survey relates has been completed and the plans have been adjusted to show the work as executed.

(4) Subject to Subsections (2) and (3) where a public authority is affected by a requirement of the Surveyor General under Subsection (1)—

- (a) it shall carry out the survey to which the requirement relates, or cause it to be carried out, in accordance with the requirement; and
- (b) the liaison officer shall forward the plans or copies of the plan to the Surveyor General in accordance with the requirement.

(5) A survey commenced by or on behalf of a public authority, whether or not it is the subject of a requirement by the Surveyor General under this section, shall be carried out

in accordance with the standards of measurement and accuracy prescribed in relation to surveys of the appropriate kind.

#### 7. Supplementary information.

(1) In this section—

“original list” means a list of particulars compiled under Section 4(4);

“supplementary list” means a list of plans compiled under Subsection (2)(a).

(2) Where the liaison officer has forwarded an original list of particulars to the Surveyor General, the liaison officer shall, during the month of July next following the compilation of the original list and during the month of July in each following year—

(a) cause to be compiled a correct and complete list of the plans relating to the types of survey in respect of which the original list was compiled that have been made or obtained by or on behalf of or lodged with the public authority after the compilation of the original list and before 1 July next following, or during the period since the compilation of the last supplementary list, as the case requires; and

(b) set out in the supplementary list, in relation to all such plans, the same particulars as were set out in the original list in relation to plans of the type of survey concerned; and

(c) forward the supplementary list to the Surveyor General.

#### 8. Central Plan Register, etc.

(1) For the purposes of this Act, there shall be established and maintained in the Central Plan Office a register, to be called the Central Plan Register.

(2) The Central Plan Register shall be in the prescribed form and contain the prescribed classifications and particulars.

(3) The Surveyor General, after such inquiry as he considers necessary, shall cause—

(a) a record of the plans—

(i) set out in any list forwarded to him under Section 4 or 7; or

(ii) forwarded to him under Section 6; or

(iii) otherwise made available to him,

as appear to him to be of general value for the purposes of this Act to be entered in the Central Plan Register; and

(b) the plans whether or not they are held in the Central Plan Office to be marked or stamped with such particulars of their recording and classifications as are prescribed.

(4) Notwithstanding anything to the contrary in any other law, where—

(a) it appears to the Surveyor General that a recorded plan in the possession of a public authority is of such general value for the purposes of this Act that it should be kept in the Central Plan Office; and

(b) the Surveyor General so requires,

the plan or a copy of the plan certified as correct by the liaison officer shall be lodged by the public authority in, and kept in, the Central Plan Office.

(5) A recorded plan that remains in the possession of a public authority shall not be—

(a) destroyed; or



- (b) removed out of the possession of that authority except in accordance with this Act,

without the written consent of the Surveyor General.

(6) Where a recorded plan in the possession of a public authority is altered in respect of the survey to which the plan relates, the liaison officer shall, within 14 days after the alteration—

- (a) notify the Surveyor General, in writing; and
- (b) if a copy of the recorded plan has been lodged with the Surveyor General, forward to or lodge with the Surveyor General a plan showing the details of the alteration.

(7) For the purpose of the recording and classification of plans under this Act, any person authorized by the Surveyor General shall be given free access at all reasonable times—

- (a) to all plans set out in any list forwarded to the Surveyor General under this Act that are in the possession of a public authority; and
- (b) to all plans referred to in Subsection (3)(a)(iii), and is entitled to mark or stamp on any of the plans such particulars as are required for the purposes of Subsection (3).

#### 9. Inspection of recorded plans.

(1) A person authorized in writing by the Surveyor General is entitled to inspect at all reasonable times any recorded plan kept in the Central Plan Office, and the Surveyor General may authorize a person to inspect any recorded plan that is kept elsewhere than in the Central Plan Office.

(2) A person authorized in writing by the Surveyor General, generally or in any particular case is entitled, on production of the authority issued to him by the Surveyor General and on satisfying the public authority having possession of a recorded plan as to his purpose for inspecting the plan, to inspect and copy the plan at all reasonable times.

#### 10. Copies of recorded plans.

When required to do so by the Surveyor General by written notice addressed to the liaison officer, a public authority shall provide an accurate copy of any recorded plan in its possession to the Surveyor General or to any person, on payment (subject to any arrangements to which the public authority is a party) to it of the prescribed charge.

#### 11. Surveys for the establishment of permanent survey marks.

(1) Where, in the opinion of the Surveyor General—

- (a) a triangulation survey of the country has been sufficiently developed within any area; and
- (b) the plans relating to the survey and such other information as he requires are available,

the Surveyor General, after consultation with such public authorities as he thinks fit, may cause to be carried out in the area such surveys as he thinks necessary for the establishment of permanent marks for the convenient connexion of local or general surveys to the triangulation survey.

(2) If the Surveyor General reports that—

- (a) Subsection (1) has been given effect to with respect to an area and that permanent marks have been established for the area; or
- (b) there are in an area sufficient permanent marks established by a local system of triangulation or standard traverse survey for that area,

the Minister may, by notice in the National Gazette, declare the area to be a survey area for the purposes of this Act.

(3) After the publication of a notice under Subsection (2), every survey made under any law, of an area that is wholly or partly within or contiguous to the proclaimed survey area shall be connected, as prescribed, to at least two placed, adopted or established permanent marks, or to at least two placed or established survey marks that are acceptable to the Surveyor General as standard survey marks for the survey area.

(4) A connexion for the purposes of Subsection (3) may be made—

- (a) directly; or
- (b) with the written authority of the Surveyor General or a person authorized in writing for the purpose by the Surveyor General—indirectly, by way of connexion to existing permanent marks or survey marks already connected or proposed to be connected to permanent marks or standard survey marks.

(5) A plan of survey referred to in Subsection (3) shall not be lodged with, or accepted or otherwise used by, any public authority or be of any validity for any purpose under any law unless it shows the connexions required by this section or is accompanied by a sketch plan showing the connexions so required.

(6) Where it is necessary in order to comply with Subsection (3) to make a measured traverse exceeding 5 000 m in length, the State shall reimburse the person incurring the expense of the survey such part of the expense as relates to the excess.

(7) The Surveyor General shall, on request—

- (a) advise the person carrying out any survey specified in Subsection (6) as to how proposed surveys may be connected to the placed, adopted or established permanent marks or standard survey marks; and
- (b) authorize any indirect connexion that appears to him to be more convenient or economical than a direct connexion,

and a survey carried out or plan prepared in accordance with the authority of the Surveyor General under this subsection shall be deemed for all purposes to comply with this section.

## 12. Avoidance of duplication of surveys, etc.

The Surveyor General shall—

- (a) on request, advise the liaison officer of any public authority, and any surveyor, of all recorded plans and of all proposed surveys that may render unnecessary or limit the scope of a survey proposed to be carried out by or on behalf of the authority or by the surveyor; and
- (b) take all steps that are expedient for avoiding unnecessary duplications of surveys, including—
  - (i) the carrying out, for or on behalf of and with the consent of two or more public authorities, of any survey that may be jointly required by the authorities; or

(ii) the arranging for the carrying out, with the consent of the public authorities concerned, of any such survey by any one of the authorities, on such terms as to payment of the costs of the survey as are agreed on by the authorities and the Surveyor General or, in default of agreement, as are determined by the Minister.

13. Official surveys.

The Surveyor General may—

- (a) cause to be carried out any survey that he considers necessary or desirable for the purposes of this Act; and
- (b) establish on the area so surveyed such permanent marks as he considers necessary,

and may cause a record of the plan of every such survey to be entered in the Central Plan Register.

14. Adoption of existing survey marks.

(1) The Surveyor General may, by notice in the National Gazette specifying the marks or class of marks adopted, adopt any particular reference marks or other survey marks, or any class of reference marks or other survey marks, placed or established by any person or public authority, as permanent marks for the purposes of this Act and any other law.

(2) A permanent mark required or authorized to be placed or established under this Act, whether by the Surveyor General or by a public authority, may be so placed or established—

- (a) on any unoccupied Government land; or
- (b) on any land vested in, or under the care and management of, a public authority; or
- (c) on a road, street, pathway, lane or thoroughfare; or
- (d) with the consent of the owner or occupier, on any privately owned land.

(3) A person authorized by the Surveyor General or by the liaison officer of a public authority by which or on whose behalf a survey is being carried out shall, at all reasonable times, have access to any land, road, street, pathway, lane or thoroughfare referred to in Subsection (2) for the purpose of the establishment, inspection and maintenance of any permanent mark or of the connexion of a survey with any permanent mark.

(4) Subject to Subsection (5), a permanent mark adopted under this section, or a permanent mark placed or established under this Act, whether by the Surveyor General or any public authority, must be maintained in good order and condition—

- (a) in the case of a mark on any land vested in or under the care and management of a public authority—by the public authority out of such moneys as are available for the care and management of the land; or
- (b) in the case of a mark on a road, street, pathway, lane or thoroughfare, the maintenance of which is charged on a public authority—by the public authority out of such moneys as are available for the maintenance of the road, street, pathway, lane or thoroughfare; or
- (c) in the case of a mark on any privately owned land or unoccupied Government land, or on any road, street, pathway, lane or thoroughfare to which Paragraph (b) does not apply—by the Surveyor General or the public authority placing or establishing the mark, as the case may be.

(5) Where the Minister is satisfied, on application by a public authority, that the maintenance of a mark referred to in Subsection (4) involves undue expense or inconvenience to the public authority, he may direct that the maintenance be carried out by the Surveyor General or by such other public authority as the Minister thinks fit.

#### 15. Notice of placement, etc., of marks.

Where necessary, the Surveyor General shall give written notice of the placement, adoption, establishment, removal or alteration of a permanent mark to any public authority responsible under this Act for its maintenance.

#### 16. Irregularities in position of permanent marks.

A surveyor who discovers—

- (a) an apparent irregularity in the position of a permanent mark; or
- (b) that a permanent mark has been destroyed or removed, or is in disrepair; or
- (c) that any measurements made by him differ from those shown on any recorded plan,

shall furnish to the Surveyor General a written report on the matter.

#### 17. Annual report of Surveyor General.

As soon as practicable after the close of each financial year the Surveyor General shall prepare and submit to the Departmental Head a report on the administration of this Act during the financial year.

#### 18. Exemptions.

(1) On application by—

- (a) a public authority; or
- (b) a surveyor; or
- (c) a person who carries out or supervises a survey (other than an authorized survey within the meaning of the *Survey Act*) on behalf of a public authority,

the Surveyor General, for any reason which he considers sufficient, may by written notice exempt from all or any of the provisions of this Act relating to surveys or plans—

- (d) a survey being carried out, or proposed to be carried out, by the public authority, surveyor or person; or
- (e) a plan of survey in the possession of, or to be prepared by, the public authority, surveyor or person; or
- (f) a class of any such surveys or plans.

(2) An exemption under Subsection (1) may be granted—

- (a) permanently or for a specified period; and
- (b) subject to such conditions (if any) as the Surveyor General thinks necessary.

#### 19. Destruction, etc., of permanent marks.

(1) Subject to Subsection (2), a person who destroys, removes, injures or defaces, or directly or indirectly causes any alteration in the position of, a permanent mark placed, adopted or established under this Act is guilty of an offence.

(2) Subsection (1) does not apply to the removal or alteration of a permanent mark for the purpose of any building, reconstruction or other work, or for any reason that makes the

removal or alteration necessary, in accordance with such provisions as to notice, supervision, re-establishment and report to the Surveyor General as are prescribed.

(3) On the conviction of a person of an offence against Subsection (1), the court that convicts the person may, in addition to imposing a penalty for the offence, order that the defendant pay to the Surveyor General or to a public authority responsible for the maintenance of the permanent mark the subject of the proceedings such amount as the court thinks reasonably necessary to reimburse the Surveyor General or public authority for any expense incurred or to be incurred in replacing or re-establishing the mark.

#### 20. Offences.

A person who contravenes or fails to comply with a provision of this Act is guilty of an offence.

Penalty: A fine not exceeding K200.00.

#### 21. Regulations.

The Head of State, acting on advice, may make regulations, not inconsistent with this Act, prescribing all matters that by this Act are required or permitted to be prescribed, or that are necessary or convenient to be prescribed for carrying out or giving effect to this Act, and in particular for—

- (a) prescribing the form of, and the particulars to be contained in, notices of intention to commence surveys or of the commencement of surveys; and
- (b) prescribing the form of the Central Plan Register, the classifications and particulars of plans to be recorded in the Register and the particulars to be marked on recorded plans; and
- (c) prescribing the kinds and specifications of permanent marks, and empowering the Surveyor General to authorize departures from any regulation made for that purpose; and
- (d) regulating the placing, adoption or establishment of permanent marks; and
- (e) prescribing the conditions as to notice, supervision, re-establishment and report to the Surveyor General under which permanent marks may be altered or removed for the purpose of any building, reconstruction or other work, or for any reason that makes removal or alteration necessary; and
- (f) prescribing standards of measurement and of accuracy to be adopted for the purposes of any survey, and the connexion of any survey to any existing survey mark or permanent mark; and
- (g) prescribing conventional symbols to be used on plans required to be prepared and forwarded to the Surveyor General under this Act; and
- (h) empowering the Surveyor General to call for the production of the field notes of any survey, a plan or a copy of a plan of which is, or is required to be, recorded or forwarded or set out on any list forwarded to the Surveyor General under this Act.



INDEPENDENT STATE OF PAPUA NEW GUINEA.

CHAPTER NO. 203.

*Survey Co-ordination Regulation.*

ARRANGEMENT OF SECTIONS.

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"control survey".
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6. Instructions as to proposed survey.
7. Permanent marks.
8. Radiations.
9. Particulars on plans in Central Plan Register.
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SCHEDULES.

SCHEDULE 1.—

- FORM 1.—Central Plan Register.
- FORM 2.—Register of Bench Marks.
- FORM 3.—Certificate as to Correctness of List of Plans.
- FORM 4.—Notice of Intention to Commence Survey.
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SCHEDULE 2.—Standard Type Permanent Survey Mark.

SCHEDULE 3.—Symbols to be used on Plans of Cadastral Surveys.

SCHEDULE 4.—Control Surveys.





INDEPENDENT STATE OF PAPUA NEW GUINEA.

CHAPTER NO. 203.

*Survey Co-ordination Regulation.*

MADE under the *Survey Co-ordination Act*

**1. Interpretation.**

In this Regulation, unless the contrary intention appears "control survey" means a survey effected for the purpose of establishing within the country, points the horizontal or vertical positions of which are determined relative to such origin or origins as are prescribed.

**2. Central Plan Register.**

The Central Plan Register shall be in Form 1.

**3. Liaison officer to keep certain registers.**

(1) A liaison officer shall keep—

(a) a register, to be known as a "Departmental Register of Survey Plans", containing full, accurate and up-to-date particulars of every survey plan in the possession of his public authority; and

(b) a register of bench marks in Form 2 containing a record of all permanent bench marks established or maintained by the public authority together with a sketch showing the location of each bench mark.

(2) Each entry in a register of bench marks must be made in duplicate and one copy forwarded to the Surveyor General within one month after the making of the entry.

**4. Certification of lists of plans.**

A list or supplementary list compiled by the liaison officer under Section 4 or 7 of the Act forwarded to the Surveyor General in accordance with the provisions of the Act shall be endorsed with a certificate in Form 3.

**5. Notice of intention to commence survey.**

A notice under Section 5(1) of the Act shall be in Form 4.

**6. Instructions as to proposed survey.**

In relation to a survey being carried out or proposed to be carried out by or on behalf of a public authority, the liaison officer of the authority shall give to the surveyor, or, where the survey is other than a survey under the *Survey Act*, to the person carrying out or supervising the survey, all instructions and directions necessary to ensure compliance with the requirements of the Surveyor General.

**7. Permanent marks.**

(1) The permanent marks established under the Act shall be of the standard type indicated in Schedule 2 or such other type as the Surveyor General, by notice in the National Gazette, authorizes.

(2) A permanent mark shall be so placed that it is safe from possible accidental damage or interference and does not constitute a hazard to traffic.

(3) In rural areas a permanent mark may protrude slightly above the ground surface.

(4) A permanent mark shall be so placed and constructed as to be capable of being used as a theodolite reference point and a level bench mark.

#### 8. Radiations.

Where a permanent mark is established, sufficient radiations shall be taken to enable the position of the permanent mark to be accurately reinstated if reinstatement becomes necessary.

#### 9. Particulars on plans in Central Plan Register.

The particulars to be stamped or marked on plans in the Central Plan Register under Section 8(3)(b) of the Act are—

- (a) the recorded number of the plan; and
- (b) the classification, determined in accordance with Section 11, of the survey from which the plan was prepared; and
- (c) the date of recording of the plan; and
- (d) the initials of the officer by whom the plan is marked or stamped.

#### 10. Conventional symbols.

The conventional symbols to be used on plans to be lodged in or registered by the Central Plan Office must conform to the following requirements :—

- (a) on plans of cadastral surveys—as specified in Schedule 3; and
- (b) on plans of engineering surveys—as specified in Section 19 of the Australian Standard Engineering Drawing Practice of the Institution of Engineers, Australia (known as CZ1 1966), as amended from time to time; and
- (c) on plans of topographic surveys—as specified in the Standard Topographical Map Symbols of the Australian National Mapping Council (known as NMP/58/108).

#### 11. Classification of surveys.

(1) Surveys shall be classified in accordance with the appropriate table in Schedule 4.

(2) A control survey shall be classified in accordance with the standards of accuracy specified in Table 1 of Schedule 4.

(3) A survey, other than a control survey, that attains to a standard of accuracy specified in the first column of Table 2 of Schedule 4 shall be classified as a survey of the class set out in the second column of that table opposite to the standard of accuracy so specified.

(4) For the purposes of this section, the following provisions apply in the determination of the classification of surveys, other than control surveys :—

- (a) in a closed traverse, the perimeter divided by the misclose shall not exceed the figure shown in Table 2 of Schedule 4 for the appropriate class; and
- (b) for the purposes of Paragraph (a), the misclose shall be determined as  $\sqrt{a^2 + b^2}$  where "a" is the difference in latitude and "b" is the difference in departure; and
- (c) in the lines of levels the difference between the forward and backward runs of levels shall not exceed  $e\sqrt{k}$  where "e" is the allowable difference per kilometre and "k" is the total number of kilometres levelled.

(5) Where the standard of accuracy is intermediate between any of the standards specified in Table 1 or Table 2 of Schedule 4 the lower classification shall be shown.

**12. Standards of accuracy of surveys.**

(1) For the purposes of Section 6(5) of the Act—

- (a) control surveys shall conform to the standard of accuracy of the appropriate class specified in Table 1 of Schedule 4; and
- (b) other surveys shall conform to the standard of accuracy of the appropriate class specified in Table 2 of Schedule 4; and
- (c) the standard of accuracy prescribed in respect of any class of survey shall be deemed to be the minimum standard of accuracy for surveys of that class.

(2) The Surveyor General is responsible for the standard of accuracy of a control survey.

**13. Accuracy of connexion to permanent marks.**

Connexions to permanent marks made under the Act shall conform to the same standard of accuracy as the survey being connected.

**14. Alteration of recorded plan.**

Where a plan showing details of an alteration is required by Section 8(6)(b) of the Act to be forwarded to or lodged with the Surveyor General, the plan shall be drawn to the same scale as the relevant recorded plan, but if the details of the alteration are not clear when the plan is drawn to that scale the plan shall be drawn to a larger scale.

**15. Placement, etc., of permanent mark.**

A notice under Section 15 of the Act shall be in Form 5.

**16. Damage, etc., to permanent mark.**

A report under Section 16 of the Act shall include—

- (a) the number and position of the permanent mark to which the report relates; and
- (b) the extent of the irregularity or disrepair or of the damage to the permanent mark; and
- (c) the approximate date when the damage or irregularity was caused; and
- (d) if practicable, the name of the person responsible for the irregularity or for the damage to the permanent mark; and
- (e) particulars of any action taken to restore the permanent mark.

**17. Removal or alteration of permanent marks.**

(1) Where it is necessary to remove or alter a permanent mark for any of the reasons specified in Section 19(2) of the Act, the person responsible for the building, reconstruction or other work shall give to the Surveyor General notice of the proposed removal or alteration at least 14 days before the proposed removal or alteration.

(2) On receipt of a notice under Subsection (1), the Surveyor General shall give to the person by whom the notice was given such directions as to the preservation, removal, alteration, replacement or re-establishment of the permanent mark as are necessary.

(3) Any costs incurred by reason of compliance with any directions under Subsection (2) shall be defrayed by the Surveyor General or public authority responsible under the Act for the maintenance of the permanent mark.

**18. Prevention of damage to marks.**

A public authority shall take all precautions necessary to prevent a permanent mark from becoming damaged or obscured in consequence of any work carried out by the authority.

**19. Construction, etc., of certain roads and footpaths.**

(1) Before proceeding with any construction, alteration or reconstruction of a road or footpath where permanent marks have not been established, a public authority shall notify the Surveyor General of its intention to do so.

(2) On receipt of a notice under Subsection (1), the Surveyor General may—

- (a) establish such permanent marks; or
- (b) direct the public authority to establish such permanent marks,

in the area as he thinks necessary.

**20. Numbering and indexing of field notes.**

(1) Field notes made for the purpose of a survey carried out by or on behalf of a public authority, a plan of which is a recorded plan or which is specified on any list forwarded to the Surveyor General, shall be numbered, indexed and maintained in good order by the public authority.

(2) The number of a field note specified in a list referred to in Subsection (1) shall correspond with the number specified on the field note.

**21. Production of field notes.**

The Surveyor General may, by written notice, require the liaison officer of a public authority to produce for inspection and examination any field notes of a survey carried out by or on behalf of the authority a plan of which is a recorded plan or which is specified on any list forwarded to the Surveyor General.

**22. Standard tapes.**

(1) The Surveyor General may require a public authority to maintain a standard tape at any office that is the usual headquarters of that public authority in a particular area.

(2) A standard tape maintained under Subsection (1) must be submitted to the Surveyor General for examination and checking at intervals not exceeding five years and at such other times as the Surveyor General requires.

(3) The Surveyor General shall notify the liaison officer of any necessary adjustment to be made in comparing the standard tape with field tapes.

(4) A standard tape maintained under this section shall not be used for any purpose other than comparison with field tapes.

(5) The adjustment of measurement by comparison of the standard tape with field tapes is the responsibility of the public authority.

(6) The Surveyor General may require the field tapes intended for use on any survey by or on behalf of a public authority to be submitted to him for checking—

- (a) before the survey is commenced; or

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- (b) at any reasonable time during the survey; or
- (c) immediately after the completion of the survey.

(7) A staff used in connexion with a survey that is to be recorded in the Central Plan Register shall be checked, at regular intervals, by comparison with a standard staff or a standard tape, and every level book relating to that survey shall be endorsed with a note indicating that the staff has been so checked and the date on which the check was made.

**23. Lines of levels.**

Where practicable, all lines of levels forming part of a survey carried out under the Act shall be referred to a recorded bench mark, and a description of the bench mark used for datum and the reduced level adopted shall be shown in the level book.

SCHEDULES.

SCHEDULE 1.

PAPUA NEW GUINEA.  
*Survey Co-ordination Act.*

Act, Sec. 8.  
Reg., Sec. 2.

Form 1.

CENTRAL PLAN REGISTER.

Survey.								Plan.			Allotment	Section	Town	Milinch	Fourmil	Field Bk. No.	Level Bk. No.	Remarks.
C.P.O. Ref.	Date Reg.	Public Auth.	Charted on	Dept. Reg. No.	Type	Classification	Surveyor	Date completed	Scale	Size								

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PAPUA NEW GUINEA.

*Survey Co-ordination Act.*

Reg., Sec. 3(1)(b).

Form 2.

REGISTER OF BENCH MARKS.

Public Authority:

Recorded B.M. No.:

Locality:

Type of bench mark:

Date installed:

By whom installed:

Levelled from:

Levelled by:

Date:

19 .

L. Book No.

Adopted level of permanent bench mark:

Remarks:

Sketch

*(To be drawn in black waterproof ink.)*

Dated

19 .

Liaison Officer.

PAPUA NEW GUINEA.

*Survey Co-ordination Act.*

Reg., Sec. 4.

Form 3.

CERTIFICATE AS TO CORRECTNESS OF LIST OF PLANS.

Public Authority:

I certify that this is a correct list of all plans (or of the particulars required by the Surveyor General of all plans) made, obtained or held by the abovenamed public authority in the period to which the list refers.

Dated

19 .

Liaison Officer.

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PAPUA NEW GUINEA.

*Survey Co-ordination Act.*

Act, Sec. 5(1).

Form 4.

Reg., Sec. 5.

NOTICE OF INTENTION TO COMMENCE SURVEY.

*(To be furnished in duplicate.)*

Public Authority:

The Surveyor General.

Sir,

Notice of intention to commence a survey in accordance with the particulars set out below is given in accordance with Section 5(1) of the *Survey Co-ordination Act*.

Allotment:

Section:

Portion:

Town:

Milinch:

Fourmil:

Type of survey:

Surveyor:

Probable classification:

Purpose and extent of survey, and remarks (*attach sketch*):

Dated

19 .

Liaison Officer.

PAPUA NEW GUINEA.

*Survey Co-ordination Act.*

Act, Sec. 15.

Form 5.

Reg., Sec. 15.

NOTICE OF PERMANENT MARK.

Type of Permanent Mark:

Registered No.

Milinch of

, Fourmil of

Sketch.

*(To be drawn in black waterproof ink, not necessarily to scale.)*

*Note.*—Measurements are to be shown from the permanent mark to as many nearby survey marks, buildings, fence posts, kerbs, etc., as practicable. Up to six measurements are desirable.

Measurements are in

Placed in connexion with (*type of survey or work*)

Public Authority Plan No.:

Recorded Plan No.:

If levelled—reduced level of mark

to

datum.

I certify that the permanent mark shown in this sketch has been placed on the ground in accordance with the *Survey Co-ordination Act*, and that the information set out above is correct.

Dated

19 .

Liaison Officer.

Public Authority.

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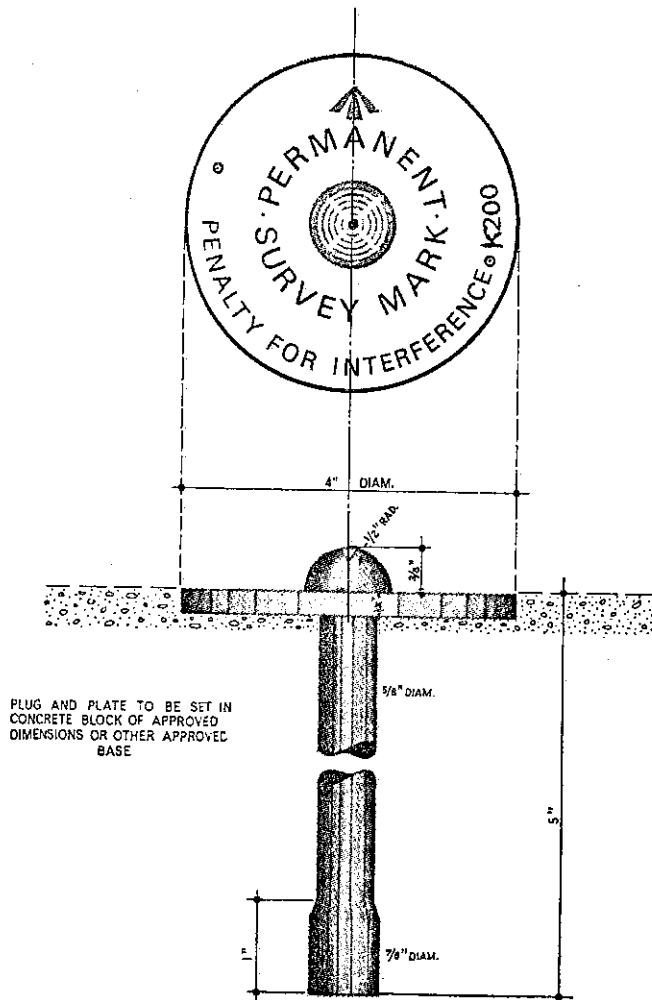
*Survey Co-ordination*

SCHEDULE 2.

*Survey Co-ordination Act.*

Reg., Sec. 7.

STANDARD TYPE  
PERMANENT SURVEY MARK





SCHEDULE 3.

Survey Co-ordination Act.

Reg., Sec. 10.

SYMBOLS TO BE USED ON  
PLANS OF CADASTRAL  
SURVEYS

FOURMIL BOUNDARY		TIMBER EDGE	
MILINCH BOUNDARY		MANGROVES	
INTERNATIONAL BOUNDARY		SWAMP	
SURVEYED LINE		CREEK	
TRAVERSE LINE		WEIR, DAM, BORE+DRAIN	
UNSURVEYED LINE		TANK (earth)	
ROAD SURVEYED		BUILDINGS	
ROAD NOT SURVEYED		CHURCH	
TRACK		TOWN BOUNDARY	
HIGHWAY		GRAVEL PIT	
EMBANKMENT		QUARRY	
CUTTING, CULVERT		RIDGE + PEAK	
BRIDGES: WOOD, STEEL		WATER HOLE	
RAILWAY SINGLE TRACK		OLD GERMAN CEMENT	O.G.C.
RAILWAY DOUBLE TRACK		OLD AUSTRALIAN CEMENT	O.A.C.
INDUSTRIAL RAILWAY		ORIG. REFERENCE TREE	O.R.T.
POWER LINE		ORIG. CEMENT PEG	O.C.P.
TELEPHONE LINE		FENCE POST	F.P.
FENCE		ROUND FENCE POST	R.F.P.
SURVEY STN., OBSERV. STN.		SQUARE FENCE POST	S.F.P.
TRIG. STN. 1 <sup>st</sup> , 2 <sup>nd</sup> . ORDER		PERMANENT MARK	P.M.
TRIG. STN. 3 <sup>rd</sup> , 4 <sup>th</sup> . ORDER			
ASTRO. STN. - PERM. MARK			
RIVER TRAVERSED			
RIVER NOT TRAVERSED			
GULLY			
HIGH WATER MARK			
SAND			
REEF			
CLIFFS			
ROCKY FORESHORE			
L'HOUSE, WRECK, ANCHORAGE			
DIRECTION ARROW			

## SCHEDULE 4.

## Survey Co-ordination Act.

Reg., Sec. 12.

TABLE 1.  
CONTROL SURVEYS.

(a) Horizontal control.

Triangulation.	Classification.		
	First Order.	Second Order.	Third Order.
Triangle misclosure not to exceed :—			
Average	1 second	3 seconds	5 seconds
Maximum	3 seconds	5 seconds	10 seconds
Check on base	1: 25 000	1: 10 000	1: 5 000
Probable error of base not to exceed	1: 1 000 000	1: 500 000	
Estimated actual error not to exceed	1: 300 000	1: 150 000	
Laplace Azimuths, probable error not to exceed	0.3 seconds	0.5 seconds	

Horizontal control surveys of a lower accuracy than the above shall be classified as Fourth Order.

Traverses.	Classification.		
	First Order.	Second Order.	Third Order.
Position check not to exceed	1: 25 000	1: 10 000	1: 5 000
Probable error of an angle not to exceed	1.5 seconds	3 seconds	6 seconds
Astronomic Azimuth, probable error of result	0.5 seconds	2 seconds	5 seconds

Horizontal control surveys of a lower accuracy than the above shall be classified as Fourth Order.

(b) Vertical control.

	Classification.		
	First Order.	Second Order.	Third Order.
Difference between forward and backward runs of levels, where K is the length of the section in kilometres, not to exceed	$0.0041\sqrt{K}$ metres	$0.0084\sqrt{K}$ metres	$.012\sqrt{K}$ metres

Control levels of a lower accuracy than the foregoing shall be classified as Fourth Order.

TABLE 2.  
SURVEY OTHER THAN CONTROL SURVEYS.

Standard of accuracy.	Classification.
<i>(a) Planimetric surveys—</i>	
Where the standard of accuracy is equivalent to an error of closure not less than—	
1: 15 000	A
1: 10 000	B
1: 8 000	C
1: 6 000	D
1: 4 000	E
1: 2 000	F
1: 1 000	G
1: 500	H
and lesser accuracy	K
<i>(b) Altimetric surveys—</i>	
Surveys where the difference between the forward and backward runs of levels does not exceed—	
0.004 in 1km	1
0.009 in 1km	2
Surveys where the error of any spot level does not exceed 0.3 m	3
Surveys where the error of any spot level does not exceed 2 m	4
Surveys where the error of any spot level exceeds 2 m	5
Where the error in level of 90% of contour lines on any plan—	
does not exceed 50% of the contour interval	X
is greater than 50% of the contour interval	Y
<i>Note:—</i> It would be appropriate, in altimetric surveys, to classify by both numeral and letter.	

ks.

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*Papua and New Guinea*

scribed in notice dated  
*New Guinea Government*

cribed in notice dated  
*New Guinea Government*

15, more particularly  
*Territory of Papua and*  
1, p. 472.

ly described in notice  
*Papua and New Guinea*

ly described in notice  
*Papua and New Guinea*

1082, more particu-  
blished in *Territory of*  
May 1971, p. 472.

particularly described  
*territory of Papua and New*  
530.

bed in notice dated 18  
*New Guinea Government*

Mount Kenevi (Holilobo): Myola (Kenevi) Hiran Station 22, more particularly described in notice dated 30 May 1971 and published in *Territory of Papua and New Guinea Government Gazette* No. 30 of 10 June 1971, p. 530.

Mount Nelson: Suau Hiran Station 21, more particularly described in notice dated 30 May 1971 and published in *Territory of Papua and New Guinea Government Gazette* No. 30 of 10 June 1971, p. 530.

Mount Tangi, New Britain: New Tangi Hiran Station 15, more particularly described in notice dated 18 May 1971 and published in *Territory of Papua and New Guinea Government Gazette* No. 27 of 20 May 1971, p. 472.

Mount Turu: Turu Hiran Station 36, more particularly described in a notice dated 18 May 1971 and published in *Territory of Papua and New Guinea Government Gazette* No. 27 of 20 May 1971, p. 472.

Mussau Island: Noma Hiran Station 10, more particularly described in notice dated 18 May 1971 and published in *Territory of Papua and New Guinea Government Gazette* No. 27 of 20 May 1971, p. 472.

Nauria Island, Luscan Group: Noel Hiran Station 20, more particularly described in notice dated 18 May 1971 and published in *Territory of Papua and New Guinea Government Gazette* No. 27 of 20 May 1971, p. 472.

New Hanover Island: Pilikos Hiran Station 11, more particularly described in *Territory of Papua and New Guinea Government Gazette* No. 27 of 20 May 1971, p. 472.

Simberi Island: Moru Hiran Station 12, more particularly described in *Territory of Papua and New Guinea Government Gazette* No. 27 of 20 May 1971, p. 472.

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INDEPENDENT STATE OF PAPUA NEW GUINEA.

CHAPTER NO. 203.

*Survey Co-ordination.*

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APPENDIXES.

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APPENDIX 1.

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SOURCE OF THE SURVEY CO-ORDINATION ACT.

Part A.—Previous Legislation.

*Survey Co-ordination Act 1967 (No. 82 of 1967).*

Part B.—Cross References.

Section, etc., in Revised Edition.	Previous Reference <sup>1</sup> .
1	3
2	22
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	11
11	12
12	13
13	14
14	15
15	16
16	17
17	18
18	19
19	20
20	21
21	23

<sup>1</sup> Unless otherwise indicated, references are to the Act set out in Part A.

## APPENDIX 2.

## SOURCE OF THE SURVEY CO-ORDINATION REGULATION.

## Part A.—Previous Legislation.

*Survey Co-ordination Regulations 1969* (Statutory Instrument No. 37 of 1969).

## Part B.—Cross References.

Section, etc., in Revised Edition.	Previous Reference <sup>1</sup> .
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	11
11	12
12	13
13	14
14	15
15	16
16	17
17	18
18	19
19	20
20	21
21	22
22	23
23	24
Schedules—	Schedules—
Schedule 1—	First Schedule—
Form 1	Form 1
Form 2	Form 2
Form 3	Sec. 5
Form 4	Form 3
Form 5	Form 6
Schedule 2	Second Schedule
Schedule 3	Third Schedule
Schedule 4	Fourth Schedule

<sup>1</sup> Unless otherwise indicated, references are to the regulations set out in Part A.