

*Astronomical Check.*

86. In case of long traverses in the bush where check bearings cannot be obtained, recourse should be had to stellar or solar observations for checking bearings, such observations being duly noted in field-book and referred to on plan. (See Appendix Q.)

*Recording Observations.*

87. Trigonometrical observations and connections shall be given in detail on the proper forms. The astronomical observations and the results derived therefrom shall also be entered on the forms and forwarded with the plan. (See Appendices C and D.)

*Road Traverse.*

88. After being graded and located in the manner provided by Regulation 102 the road-lines shall be traversed along the centre, the traverse stations being selected on the line of the grade as nearly as may be, or one of the sides may be traversed, care being taken that the graded line is near the centre of the road reserve.

*Traverse of Formed Roads.*

89. Formed roads of regular width that are fenced or bounded by hedges shall be traversed on an offset line parallel to and included within the sides where practicable.

The stations of the traverse are to be marked by iron tubes, in some cases set in concrete, if directed by the Chief Surveyor.

*River-bed Traverses.*

90. In cases where traverses are carried along or through an open river-bed, and the stations are not on safe ground, it will be necessary at intervals of not more than 40 chains to place reference pegs or iron tubes properly connected with the traverse in secure positions on the banks, and record their positions in field-books and on plans. This also applies specially to dredging claims.

*Hanging Traverses.*

91. Hanging traverse-lines will not be accepted except in cases where it is not feasible to obtain a closed circuit, and in such cases all hanging lines shall be measured and observed twice, and a certified note recorded on plan and in field-book.

*Close on to Former Surveys.*

92. The connection and close with former surveys must be clearly shown. Should "adopted" work fail to close with the new work within the limit of error prescribed by these regulations a resurvey of the old work must be made to close the survey.

*Adopted Work.*

93. The Chief Surveyor, before permitting old work to be "adopted," may, in his discretion, require it to be verified or resurveyed.

*Elimination of Error.*

94. Errors in bearing not exceeding the limits prescribed in Regulation 37 shall be distributed, the distribution being shown in the field-book and the amended bearings entered on plan and traverse-reduction sheets. The errors of close in latitude and departure shown on these sheets, if within the prescribed limits, shall be distributed thereon by the following rule: "As the total length of the traverse is to the length of each line, so is the whole error in latitude or departure to the correction of the corresponding latitude or departure, each correction being so applied as to diminish the whole error in latitude or departure."

*Tabulations.*

95. The positions of the terminals of all chained lines, excepting range-pegs, all corners of blocks or of isolated sections, whether chained to or not, and all intersections of section-boundaries with traverses, shall be calculated and tabulated.

*Origin from Prior Survey.*

96. When initial values are adopted from former surveys, references to volumes and folios of tabulations from which such values have been adopted shall be given on the new traverse-sheets.