



**Alberta
Land
Surveyors'
Association**

*A member
of the
Canadian
Council of Land
Surveyors*

G O O D P R A C T I C E
R E S O L U T I O N S —
J A N U A R Y 2 1 , 1 9 6 3

1. It shall be considered good practice in establishing a section or quarter section corner from a witness monument to proceed as follows:
The said corner shall be defined by producing the line through the witness monument from the nearest monument on the same side of the witnessed corner. The corner in question shall be placed at the distance indicated for the witness monument.
2. It shall be considered good practice in the surveying of roads or other rights of way across sections in which either quarter line has been run to make an intersection with the surveyed quarter lines and to plant an iron post to define the said point of intersection.
3. It shall be considered good practice, in the surveying of roads or other rights of way which run parallel and/or adjacent to established road allowances, to proceed as follows:
 - (a) If the limit of the right of way being posted is more than 66 feet from the posted boundary of the road allowance, then it shall be necessary to make an actual intersection with each surveyed line crossed.
 - (b) Where the limit of the right of way is 66 feet or less from the surveyed section line, said intersection may be made by offsets at township plan angles from the section line being paralleled and a note to this effect shall be placed in the legend of the plan of survey.
4. It shall be considered good practice to plant 1/2" square iron bars not less than 18" long at the corners of each lot in a subdivision, excepting those lot corners which must be posted with Statutory Iron Posts under the provisions of the Alberta *Surveys Act*. The plan of survey shall have included in the legend a note stating that these iron bars have been established at all lot corners.
5. It shall be considered good practice when preparing plans of survey, to include on said plans notes with regard to the condition of monuments, and other data such as the position of iron posts with relation to corner fence posts.
6. It shall be considered good practice to show all calculated distances on plans in black followed by the abbreviation "(calc.)".
7. It shall be considered good practice when re-establishing lost corners in accordance with The Alberta Surveys Act, that due weight be given to the bearings as shown on the official or registered plan.
8. It shall be considered good practice to show on the plan of survey ties to iron posts placed at section or quarter section corners established from secondary evidence such as fence corners so that the position of that corner can be ascertained in relation to some supporting physical evidence on the ground.
9. It shall be considered good practice to obtain closure errors not exceeding 1 in 5000 in the surveyor's own work or 1 in 2500 in closing with section lines. In the event that in closing on older surveys this maximum is exceeded, sufficient information should be obtained to verify all new measurements taken.
10. It shall be considered good practice to show on a plan of survey:
 - (a) All linear measurements of less than five hundred feet to an accuracy of five-hundredths of a foot and those exceeding five hundred feet to an accuracy of one-tenth of a foot.
 - (b) All angular measurements to the nearest minute of arc unless greater accuracy is required to clarify a particular point.
11. It shall be considered good practice on surveys of roads or other rights of way which may terminate within the interior of a section to tie the terminal monument to some other known point in such a manner that a closure may be obtained from information shown on the plan.
12. It shall be considered good practice to place a note on the plan of survey describing the method used in establishing lost corners if the method is not otherwise clearly evident.

13. It shall be considered good practice, when conducting a right of way survey, to place iron posts in addition to those required by The Alberta Surveys Act, at intermediate points (preferably hilltops) such that any two consecutive points be intervisible and the distance between any two does not exceed three thousand feet (3,000').
14. It shall be considered good practice, when conducting a survey which requires the establishment of a boundary of an unposted railway right of way by accepting centre line of tracks at an end of curve or at a section line, to place an iron post on that tangent about 100 feet away from the end of curve or section line and -to tie the said iron post or posts to the survey being conducted so that the position accepted may be ascertained during subsequent surveys.
15. It shall be considered good practice, when establishing a boundary of an unposted railway right of way, the centre line of which is shown on the filed plan to be a spiraled curve, to replace the spiral with a compound curve in accordance with the following data:

Curve Data from Railway Plan					Replacement Curve Data
Degree and Radius of Central Curve	Length of Spiral	Spiral Angle	Delta of Replacement Curve	Replacement Curve Radius	Degree and Radius of Central Curve
2° 2864.9	180 168 120	1° 48' 1° 40' 1° 12'	1° 48' 1° 40' 1° 12'	3819.8 4331.2 3819.8	2° 2864.9
2° 30' 2292.0	210 200 150	2° 37.5' 2° 30' 1 ° 52.5'	2° 37.5' 2° 30' 1 ° 52.5'	3055.7 3359.2 3055.7	2° 30' 2292.0
3° 1910.1	240 234 180	3 ° 36' 3° 30' 2° 42'	3 ° 36' 3° 30' 2° 42'	2546.6 2765.7 2546.6	3° 1910.1
3° 30' 1637.3	270 204 210	4 ° 43.5' 3° 30' 3° 40.5'	4 ° 43.5' 3° 30' 3° 40.5'	2182.9 2412.2 2182.9	3° 30' 1637.3
4° 1432.7	300 231 240	6° 00' 4° 40' 4° 48'	6° 00' 4° 40' 4° 48'	1910.1 2024.7 1910.1	4° 1432.7
4° 30' 1432.7	300 264 270	6° 45' 6° 00' 6° 04.5'	6° 45' 6° 00' 6° 04.5'	1697.9 1786.0 1697.9	4° 30' 1432.7
5° 1146.3	300 248 300	7° 30' 6° 00' 7° 30'	7° 30' 6° 00' 7° 30'	1528.2 1677.2 1528.2	5° 1146.3
5° 30' 1042.1	300 279 330	8° 15' 7° 30' 9° 04.5'	8° 15' 7° 30' 9° 04.5'	1389.3 1499.7 1389.3	5° 30' 1042.1
6° 955.4	300 310 360	9° 00' 9° 10' 10° 48'	9° 00' 9° 10' 10° 48'	1273.6 1357.2 1273.6	6° 955.4

16. It shall be considered good practice in the case of cultivated fields, that Statutory Iron Posts be planted below cultivated depth, and further that if iron posts are counter sunk below ground level or planted out of the ordinary way, there should be a notation on the plan of survey to that effect.
17. It shall be considered good practice; when conducting road or right-of-way surveys that intersect surveyed section or quarter section lines, the said intersection will be made by using the nearest section or quarter section corners on each side of the point of intersection. If the monuments at these corners are lost, it will be necessary to re-establish them, with due consideration given to

other monuments and then carry out the necessary intersection.

- 18.1/ It shall be considered good practice on well site surveys: in unsurveyed territory to adopt the following symbols as set forth by the Oil Field and Northern Surveys Committee:

Regulation Post found Regulation Post placed

Traverse Station found Traverse Station placed

Bearing Tree found Bearing Tree established

- 2/ Co-ordinates of regulation posts, referred to the monument of origin, should be shown on the plan.
3/ Any course checked by an astronomical observation should be so designated and the true azimuth, corrected to the reference meridian, should also be shown on the plan.