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## "THE LAND SURVEYORS ACTS, 1908 TO 1916" AMENDMENTS OF BY-LAWS

Department of Lands,  
Brisbane, 15th March, 1973.

HIS Excellency the Governor, acting by and with the advice of the Executive Council, has been pleased to approve the amendment of the following By-laws under the provisions of "The Land Surveyors Acts, 1908 to 1916."

W. A. R. RAE,  
Minister for Lands and Forestry.

It is hereby resolved by the Surveyors Board with the approval of the Governor in Council that the following amendments be made to the By-laws as set out hereunder:—

By-laws Nos. 7, 13, 15 and 16 are respectively amended by omitting from the numbered clause thereof shown in the First Column of the Schedule hereto the headnotes clauses paragraphs words or figures shown in the Second Column of the said Schedule and inserting in lieu thereof or in addition thereto the headnotes clauses paragraphs words or figures shown in the Third Column of the said Schedule.

### SCHEDULE

By-LAW No.	FIRST COLUMN	SECOND COLUMN	THIRD COLUMN
7	11	.. .. .	Every boundary and traverse line shall be laid out instrumentally and measured.
	13	All measurements to be in links. .. .. . Whole clause .. .. .	All lengths to be in metres. Lengths shall be expressed in metres and decimal parts of a metre.
	15	three chains .. .. . one chain .. .. . two chains .. .. .	60 metres 20 metres 40 metres
	24	two feet .. .. . six inches .. .. .	600 millimetres 150 millimetres
	25	ten chains .. .. . eighteen inches long and two inches square .. .. . twelve inches .. .. . one foot .. .. . three feet .. .. . six inches deep shall .. .. . In dense scrubs lockspits at pegs are not required .. .. .	200 metres 450 millimetres long and at least 45 millimetres square 350 millimetres 300 millimetres 1 metre 150 millimetres deep may
	26	Country Lands—Posts, pegs and pointer pegs at corners four inches square and three feet long, sunk two feet three inches square and two feet long .. .. . eighteen inches .. .. . Twenty links from each corner pointer pegs twelve inches long and one and one-half inch square, free of sapwood, are to be driven flush with the ground on the exact alignment of the boundaries forming the corner.	Country Lands—Posts and pegs at corners. 100 millimetres square and 1 metre long, sunk 600 millimetres 75 millimetres square and 450 millimetres long 350 millimetres
	27	Whole clause .. .. .	In subdivisional surveys, where subdivisions are marked out in blocks or sections, each block or section corner shall if practicable be truncated. Where not truncated the corner shall be marked with a hardwood peg not less than 75 millimetres square and 450 millimetres long sunk 350 millimetres into the ground.

SCHEDULE—continued

BY-LAW No.	FIRST COLUMN	SECOND COLUMN	THIRD COLUMN	BY-LAW No.
7 cont.—	27 cont.—	Whole clause cont.—	<p>At least one iron pin shall be placed in a suitable position and referenced to this peg. All pins shall be at least 15 millimetres in diameter and 300 millimetres long and shall be sunk 150 millimetres below the surface.</p> <p>If the corner is to be truncated, pegs for the truncation shall be of hardwood and have minimum dimensions of 45 millimetres square and 450 millimetres long. All pegs shall be driven 150 millimetres into the ground.</p> <p>Two iron pins shall be placed at suitable positions at each truncated corner.</p> <p>All other subdivisional corners shall be marked with hardwood pegs, at least 45 millimetres square and 450 millimetres long. The numbers of the lots shall be shown on the pegs in a suitable manner.</p>	7 cont.—
	28	Town Lands—Permanent Marks Whole clause .. .. .	<p>Town Lands—Iron Pins</p> <p>Where section corners are not truncated, iron pins at least 15 millimetres in diameter and 300 millimetres in length shall be driven perpendicularly into the ground to a depth of 450 millimetres (i.e., the top of the pin to be 150 millimetres below the surface) on alternate frontage lines at points on these lines produced each way, normally 1 metre from the corners.</p> <p>Where corners are truncated iron pins as above shall be inserted normally at the intersection of the frontage lines except in towns where civic improvements would interfere with them in which case they shall be placed on the alignment 1 metre from the pegs, as specified for corners that are not truncated.</p> <p>In the case of a curved boundary the straight line from which it springs shall be produced far enough to be well clear of the curve and an iron pin as above inserted.</p> <p>The exact position of all iron pins shall be shown in field books and on plans, and a sketch or print showing their position forwarded to the Surveyor-General when the plans are lodged with the Registrar of Titles.</p>	13
	28 (a)	Permanent Marks on all surveys including re- markings, 12 inches in length by $\frac{3}{8}$ inch in diameter .. .. .	<p>Iron pins on all surveys including re- markings, 300 millimetres in length by at least 15 millimetres in diameter</p>	15
	29	Control of permanent marks. Whole clause .. .. .	<p>Control of permanent marks and iron pins</p> <p>The care, control and maintenance of permanent survey marks and iron pins shall be vested in the Surveyor-General, who shall at all times have access thereto, and may take proceedings for the recovery of penalties for a breach of the clause relating to permanent survey marks and iron pins.</p>	
	30	Disturbance of permanent marks. .. .. .	Disturbance of permanent marks and iron pins.	
	32	one inch .. .. .	20 millimetres	
	48	tenths of a link .. .. . hundredths of a link .. .. .	0.01 of a metre 0.002 of a metre	
	51	Whole clause .. .. .	<p>As accurate surveys are required the deviation from standard and misclosure in linear measurements when tested by latitude and departure shall not exceed:</p> <ol style="list-style-type: none"> <li>1. On Town Lands—one part in 8000 with an allowance of 20 millimetres in any surround</li> <li>2. On Country Lands               <ol style="list-style-type: none"> <li>(a) On undulating country—one part in 5000</li> <li>(b) On rough, broken or steep country—one part in 2500</li> <li>(c) Where another surveyor's work is involved—one part in 2000</li> <li>(d) Where surveys effected prior to 1890 are included in the surround—one part in 1000</li> </ol> </li> </ol>	
	53	Whole clause .. .. .	<p>Plans shall be accurately plotted with the north point upwards, and shall be drawn in conformity with the following requirements:—</p> <ol style="list-style-type: none"> <li>(a) if the area of land does not exceed 1000 square metres—a scale not less than 1:1000;</li> <li>(b) if the area of land exceeds 1000 square metres but does not exceed 5000 square metres—a scale not less than 1:2000;</li> <li>(c) if the area of land exceeds 5000 square metres but does not exceed 2 hectares—a scale not less than 1:5000;</li> </ol>	

SCHEDULE—continued

BY-LAW No.	FIRST COLUMN	SECOND COLUMN	THIRD COLUMN
7 cont.—	53 cont.—	Whole clause cont.—	(d) if the area of land exceeds 2 hectares but does not exceed 30 hectares—a scale not less than 1:10 000; (e) if the area of land exceeds 30 hectares—a scale not less than 1:20 000. The scale to be used shall be one of the following:— 1 : 1            1 : 3 1 : 1.25       1 : 4 1 : 2            1 : 5 1 : 2.5         1 : 6 1 : 8 and multiples of powers of ten thereof.
	55	Whole clause .. .. .	(a) All areas shall be shown to the nearest four significant figures except in cases when fractional parts can accurately be expressed by using less than this number, provided that in no case shall an area normally be shown to a greater accuracy than 0.1 square metres. (b) Areas of less than 1 hectare shall be expressed in square metres. (c) Areas of 1 hectare or greater shall be shown in hectares, provided that areas of more than 10 000 hectares may be expressed in square kilometres.
13	19 (14) 20 (3) (a) (i) 20 (3) (a) (iii) 20 (3) (b)	20 chains .. .. . 80 acres .. .. . 1,000 feet .. .. . 40" x 27" sheets, .. .. .	400 metres 30 hectares 300 metres sheets of the nearest convenient size to 1000 millimetres x 700 millimetres
15	20 (3) (b) (a) 20 (3) (b) (ii) 7 19 23 (a) 29 31 37 38 39 40 41 42 44 (a) 44 (b) 47 48 (a) 48 (b) 48 (c) 51 52 (a) 57 (b) 67 71	10 chain .. .. . 500 acres .. .. . chains' length .. .. . twenty perches .. .. . chain .. .. . links and decimal parts of a link .. .. . two feet .. .. . six inches .. .. . three chains .. .. . one chain .. .. . two chains .. .. . three feet six inches .. .. . four inches .. .. . two feet .. .. . eighteen inches .. .. . two and a half inches square .. .. . four inches .. .. . eighteen inches .. .. . two inches .. .. . four inches .. .. . twelve inches .. .. . five eighths of an inch .. .. . six inches .. .. . in links and decimal parts thereof .. .. . one hundred and sixty acres .. .. . one mile .. .. . one hundred and sixty acres .. .. . ten chains .. .. . forty chains .. .. . five links .. .. . five links .. .. . ten chain .. .. . two inches square and eighteen inches .. .. . four inches .. .. . five links .. .. . Fahrenheit .. .. . tenths of a link for country, and to hundredths of a link for town lands .. .. . Whole clause .. .. .	1 : 8000 200 hectares 20 metre length 500 square metres tapé metres and decimal parts of a metre 600 millimetres 150 millimetres 60 metres 20 metres 40 metres 1 metre 100 millimetres 600 millimetres 450 millimetres at least 45 millimetres square in town lands and 75 millimetres square in country lands 100 millimetres 450 millimetres at least 45 millimetres 100 millimetres 300 millimetres 15 millimetres 150 millimetres to the nearest 10 millimetres 65 hectares 1 kilometre 65 hectares 200 metres 800 metres 1 metre 1 metre 200 metre at least 45 millimetres square and 450 millimetres 100 millimetres 1 metre Celsius 0.01 of a metre for country, and to 0.002 of a metre for town lands (a) All areas shall be shown to the nearest four significant figures except in cases when fractional parts can accurately be expressed by using less than this number, provided that in no case shall an area normally be shown to a greater accuracy than 0.1 square metre. (b) Areas of less than 1 hectare shall be expressed in square metres. (c) Areas of 1 hectare or greater shall be shown in hectares, provided that areas of more than 10 000 hectares may be expressed in square kilometres.

SCHEDULE—continued

BY-LAW No.	FIRST COLUMN	SECOND COLUMN	THIRD COLUMN	BY-LAW No.	I C
15 cont.—	73	chain One inch in ten chains, equal to one link in a mile one tenth of a link	measurement one part in 8000 20 millimetres	16 cont.—	
	73 (a)	One link in fifty chains	One part in 5000		
	73 (b)	One link in twenty-five chains	One part in 2500		
	73 (c)	One link in twenty chains	One part in 2000		
	73 (d)	One link in ten chains	One part in 1000		
	80	drawn to the scales Not exceeding twenty-four perches—not less than one chain to one inch. Not exceeding one acre—not less than two chains to one inch. Not exceeding five acres—not less than five chains to one inch. Not exceeding eighty acres—not less than ten chains to one inch. Exceeding eighty acres—twenty chains to one inch.	drawn to one of the scales 1 : 1            1 : 3 1 : 1.25       1 : 4 1 : 2            1 : 5 1 : 2.5         1 : 6 1 : 8 and multiples of powers of ten thereof.		
	85	First paragraph	Surveyed boundary and road lines shall be shown by firm black lines with the bearings expressed in degrees, minutes and seconds, in a clockwise direction, and the distances in metres to the second decimal place for country lands, and the third decimal place for town lands, written along them in black figures; unsurveyed boundaries or roads shall be shown by broken lines.		
16	9	One five chain steel band One or more five chain steel bands One steel band three hundred feet long;	One 100 metres steel band One or more steel bands as approved by the Surveyor-General		
	19	chain	linear measurement		
	20	One inch in ten chains or one link per mile one tenth of a link one link in fifty chains one link in twenty-five chains one link in twenty chains one link in ten chains	One part in 8000 20 millimetres one part in 5000 one part in 2500 one part in 2000 one part in 1000		
	33	chain	measuring equipment		
	48 (b)	20 links 80 chains	4 metres 1 kilometre		
	48 (c)	two inches square and eighteen inches long	at least 45 millimetres square and 450 millimetres long		
	48 (d) (3)	2 inches by 2 inches by 18 inches 20 chains	at least 45 millimetres square and 450 millimetres long 400 metres		
	48 (d) (4)	3 inches by 3 inches by 18 inches 80 chains	75 millimetres square by 450 millimetres long 1 kilometre		
	49	ten chains	200 metres		
	51	four links in a mile	one part in 2000		
	52	two feet six inches	600 millimetres 150 millimetres		
	53	two chains	40 metres		9
	54	ten chains eighteen inches long and two inches square fourteen inches	200 metres 450 millimetres long and at least 45 millimetres square 350 millimetres		
	55	100 chains mile mileage or chainage	1.5 kilometres kilometre distance		9
	56	three feet six inches four inches six inches two feet four inches by four inches and twenty inches	1 metre 100 millimetres 150 millimetres 600 millimetres 100 millimetres square and 500 millimetres		
	56 (a)	2560 acres sixty chains	1050 hectares 1 kilometre		1
	56 (b)	2560 acres 60 chains	1050 hectares 1 kilometre		1
	56 (c)	60 chains	1 kilometre		1
	56 (d)	160 acres 2½ inches square, 18 inches long, driven 14 inches	65 hectares 75 millimetres square, 450 millimetres long 350 millimetres		11

SCHEDULE—continued

By-LAW No.	FIRST COLUMN	SECOND COLUMN	THIRD COLUMN
16 cont.—	58	5 links 1/8 inch in diameter and 12 inches long 18 inches six inches	1 metre 15 millimetres in diameter and 300 millimetres long 450 millimetres 150 millimetres
	59	five feet four inches half an inch 4 feet from the ground tenth of a link	1.5 metres 100 millimetres 15 millimetres chest height 10 millimetres
	61	two chains	40 metres
	63	one hundred and sixty acres sixty chains eighteen inches long and two and a half inches square four inches	65 hectares 1 kilometre 450 millimetres long and 75 millimetres square 100 millimetres
eof.	64	eighteen inches long and two and a half inches square four inches ten acres	450 millimetres long and 75 millimetres square 100 millimetres 4 hectares
all be shown ings expressed t a clockwise etres to the nds, and the written along l boundaries lines.	65	twenty links	4 metres
	66	40 chains mile tree and at the half mile 5 links	600 metres kilometre tree and at suitable intermediate pegs 1 metre
	69	three chains one chain two chains	60 metres 20 metres 40 metres
ved by the	71	eighteen inches long and two inches square, driven fourteen inches 20 to 30 chains 20 chains 40 chain 40 chains	450 millimetres long and at least 45 millimetres square, driven 350 millimetres 400 to 600 metres 400 metres 800 metre 800 metres
	73	150 links	30 metres
	74	150 links 250 links	30 metres 50 metres
	77	two miles five miles chain two inches by two inches and eighteen inches fourteen inches one mile	3 kilometres 8 kilometres measuring equipment at least 45 millimetres square and 450 millimetres 350 millimetres 1 kilometre
millimetres	84	10 chains 4 chains 20 link 24 to 40 perches 32 to 40 perches 3 chains 20 to 21 perches 12 perches	200 metres 80 metres 4 metre 600 to 1000 square metres 800 to 1000 square metres 60 metres 500 square metres 300 square metres
s long	89	three feet six inches	600 millimetres 150 millimetres
	90 (a)	18 inches six inches 15 links 20 link-truncations 20 links 5 links 3 inches by 3 inches by 18 inches 14 inches	450 millimetres 150 millimetres 3 metres 4 metre-truncations 4 metres 1 metre 75 millimetres square by 450 millimetres 350 millimetres
	90 (b)	3 inches by 3 inches	75 millimetres square
	91	two inches square and eighteen inches fourteen inches two inches	at least 45 millimetres square and 450 millimetres 350 millimetres 40 millimetres
	96	compass and chain or theodolite and chain chain	compass or theodolite and approved measuring equipment tape
	104	three chains	60 metres
	108	three chains	60 metres
	110	ten chains chain ten chains	200 metres approved linear measuring equipment 200 metres
ig, driven	112 (a)	2 1/2 inches by 2 1/2 inches by 18 inches blue print only two or three links	75 millimetres square by 450 millimetres resumption design less than a metre

SCHEDULE—continued

BY-LAW No.	FIRST COLUMN	SECOND COLUMN	THIRD COLUMN	BY-LAW No.
16 cont.—	112 (c)	<p>The offsets shown on the print are to be adopted in the case of unfenced roads in flat country. Generally, no chord should approach the centre-line closer than 25 feet, but this may be reduced to 20 feet to avoid shifting fences. In rough country where it is necessary to cut and fill for grade purposes, the offsets shown on prints are generally sufficient to accommodate all earth-works, side drains, etc. When the survey is made before construction, the offsets are to be adopted. When made after construction, all toes of banks, tops of batters, catch drains, inlets and outlets of drains, should be included in the resumption. This should be specially noted in the case of mountainous sections where excessive rainfall has caused side slip in cuttings or subsidence in banks. Should a permanent building be needed for road purposes—i.e. for road patrols, maintenance, etc.—such building is to be included within the road boundaries by a road widening if necessary. Borrow pits, spoil dumps, metal and screening reserves should be included in the road widths. The survey of the road lines must be connected to the Main Roads centre line survey. In cases where the centre line pegs are shifted during construction, sufficient accuracy may be obtained by measuring offsets from centre of formation. In sidelong roads the centre line is two feet closer to the outside edge of road than to water table. Where metalling or metal boxing exists, the centre is 6 feet from the outside edge of curves for single track roads. The nearest foot is all that is required for such offsets. Intersection pegs are rarely shifted and foremen generally offset all centre line pegs before shifting, and have records of such offsets. If any extensive variation is made in positions of lines from those shown on the working plan, the foreman or engineer in charge of construction (if available) should have the pegged corners indicated to him. All lines necessary for the purpose of giving effect to the exchange proposal as indicated on plan must be surveyed. Connections and records of the chainage of the centre lines should be made at intersections of the centre line with boundary lines of portions through which the Department's road survey passes. These connections should also be recorded on the plan.</p> <p>Unless otherwise directed by the Commissioner, the minimum width to be adopted for any main road is one and a-quarter chains (82½ feet).</p>	<p>Where no new fencing has been erected, the resumption boundaries shall be positioned in accordance with the Main Roads Department's resumption designs included in the instructions.</p>	16 cont.—
	139	seven miles .. .. . three miles .. .. .	10 kilometres 5 kilometres	
	144	one mile .. .. .	2 kilometres	
	154	degrees and minutes .. .. .	degrees, minutes and seconds	
	162	tenths of a link .. .. . hundredths of a link .. .. .	0.01 of a metre 0.002 of a metre	
	164	Whole clause .. .. .	(a) All areas shall be shown to the nearest four significant figures, except in cases when fractional parts can accurately be expressed by using less than this number, provided that in no case shall an area normally be shown to a greater accuracy than 0.1 square metre. (b) Areas of less than 1 hectare shall be expressed in square metres. (c) Areas of one hectare or greater shall be shown in hectares, provided that areas of more than 10 000 hectares may be expressed in square kilometres.	
	170	The following should, as a rule, be adopted, but may be varied in special cases. Town allotments—One to two chains to an inch Small portions—Up to 5 acres, 4 chains to an inch; over five acres, 8 chains to an inch. Country portions—Up to 640 acres, 10 chains to an inch; over 640 acres and up to 2,560 acres, 20 chains to an inch; over 2,560 acres, 40 to 80 chains to an inch. Road Surveys—2 to 10, or 20 chains to an inch.	The scale to be used shall be one of the following: 1 : 1                    1 : 3 1 : 1.25                1 : 4 1 : 2                    1 : 5 1 : 2.5                  1 : 6 1 : 8 and multiples of powers of ten thereof.	
	176	5 links .. .. .	1 metre	

SCHEDULE—continued

BY-LAW NO.	FIRST COLUMN	SECOND COLUMN	THIRD COLUMN
16 cont.—	180	Whole clause .. .. .	The bearings and distances to be shown on the plan are those instrumentally observed and recorded in the field book, bearings to be shown reading in a clockwise direction and expressed in degrees, minutes and seconds, and distances in metres to the second decimal place for country and the third decimal place for town lands. The lengths of lines so shown shall be the horizontal lengths obtained by the calculated reduction of the actual measurement in the field. (Clause 154)
	189	165-3-0 .. .. . 5-3-0 Surveyed Road .. .. . 160-0-0 .. .. .	380.142 8.742 Road 371.4
	207	reduced level .. .. . "on State Datum" or "on Council Datum" ..	reduced level or elevation "on State Datum", "on Council Datum" or "on Australian Height Datum".

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following: