

APPENDIX IV.—WELLINGTON STANDARD SURVEY.

MR. J. D. CLIMIE, Inspector of Surveys, contributes the following remarks upon the closures obtained by him in his recent revision of his earlier 1881 (first) standard survey of the streets of Wellington :—

In the revision of the Wellington standard survey made by me in 1881 the following thirty-five circuits have been completed. Total length, twenty-three miles, embracing all the hilly portion of the city ; average length of circuit, 52·6 chains. Error, 0·055 link north and south, and 0·067 link east and west, equal per mile to 0·084 link north and south and 0·102 link east and west.

The closures of the traverses to the triangulation (which was specially made in 1881 to a measured base in Pirie Street) are generally very good, indicating that the triangulation and standard of length are in agreement, and that Gale's system of traverse corrections gives satisfactory results. Apparently the position of Banks trig. is slightly in error, causing the rather larger differences in traverses affected by that position.

REVISION SURVEY OF WELLINGTON STANDARD, 1906.

Schedule of Standard Circuits computed by Messrs. Heenan and Hocking.

No. of Circuit.	Name of Circuit.	Length.	Errors.	
			N. and S.	E. and W.
		Chains.		
1	Cotterville Street and Featherston Terrace	23	0·05	0·01
2	Hobson Street, Tinakori Road, Thorndon Quay, and Davis Street	80	0·00	0·31
3	Fitzherbert Terrace, Hobson, Muturoa, Pipitea, and Murphy Streets	61	0·06	0·06
4	Tinakori Road, Hill, Molesworth, and Hawkestone Streets	68	0·10	0·11
5	Lambton Quay, Hunter, Featherston, and Customhouse Streets	16	0·00	0·04
6	May Street Circuit	29	0·10	0·03
7	Murphy, Pipitea, and Molesworth Streets	41	0·03	0·07
8	Tinakori Road, Hobson Street, and Fitzherbert Terrace ..	34	0·02	0·01
9	Tinakori Road, Hawkestone, Molesworth, and May Streets	47	0·10	0·01
10	Bolton Street, Wellington Terrace, and Aurora Terrace ..	51	0·19	0·04
11	Thompson, Nairn, and Webb Streets	45	0·05	0·01
12	Thorndon Quay, Mulgrave, Muturoa, and Davis Streets ..	60	0·06	0·08
13	Sydney Street and Hill Street Circuit	84	0·03	0·01
14	Ballance, Featherston, and Taylor Streets Circuit	36	0·09	0·05
15	Lambton Quay, Bunny, and Ballance Streets Circuit	42	0·01	0·04
16	Grey, Customhouse Streets, and Lambton Quay Circuit ..	30	0·02	0·04
17	Mowbray, Bowen, Bolton Streets, and Wellington Terrace	15	0·04	0·00
18	Sydney and Bowen Streets Circuit	35	0·12	0·01
19	Boulcott, Willis, Dixon Streets, and Wellington Terrace ..	68	0·10	0·00
20	Woodward and Bowen Streets, Wellington Terrace, and Lambton Quay	49	0·00	0·02
21	Manners, Cuba, Dixon, and Willis Streets Circuit	38	0·02	0·05
22	Farish, Manners, and Old Customhouse Streets	19	0·00	0·04
23	Clyde Quay and Oriental Bay Circuit	102	0·01	0·24
24	Roxburgh Street Circuit	44	0·03	0·14
25	Taranaki, Buckle Streets, Banks Terrace, Howard and Wallace Streets	93	0·13	0·12
26	Thompson, Webb, Taranaki, and Hankey Streets	68	0·15	0·22
27	Wright, Hargreaves, Wallace Streets, and New Road	51	0·01	0·09
28	Howard, Crawford, New Road, and Wallace Streets	36	0·07	0·13
29	Hall and Revans Streets and Adelaide Road	45	0·05	0·01
30	Crawford, John, Drummond Streets, and Adelaide Road ..	33	0·03	0·02
31	Adelaide Road, Stokes, Rintoul, and Hall Streets	58	0·08	0·03
32	Riddiford, Russell, Waripori, and Rintoul Streets	92	0·02	0·10
33	Stokes, Rintoul, Luxford Streets, and Adelaide Road	84	0·06	0·05
34	Hill, Molesworth, Hawkestone Streets, and Tinakori Road	68	0·10	0·12
35	Wellington Terrace, Woodward Street, Lambton Quay, Willis, and Boulcott Streets Circuit	94	0·01	0·04
	Totals	23 m. 2 ch.	1·94	2·350

For thirty-five circuits the average is—Length, 52·6 chains. Errors—N. and S., 0·055 ; E. and W., 0·067 = per mile, N. and S. 0·084, and E. and W. 0·102 ; and the largest errors, 0·19 N. and S. in 51 chains, and 0·31 E. and W. in 80 chains.