

代家都市計画土地区画整理事業

確定測量

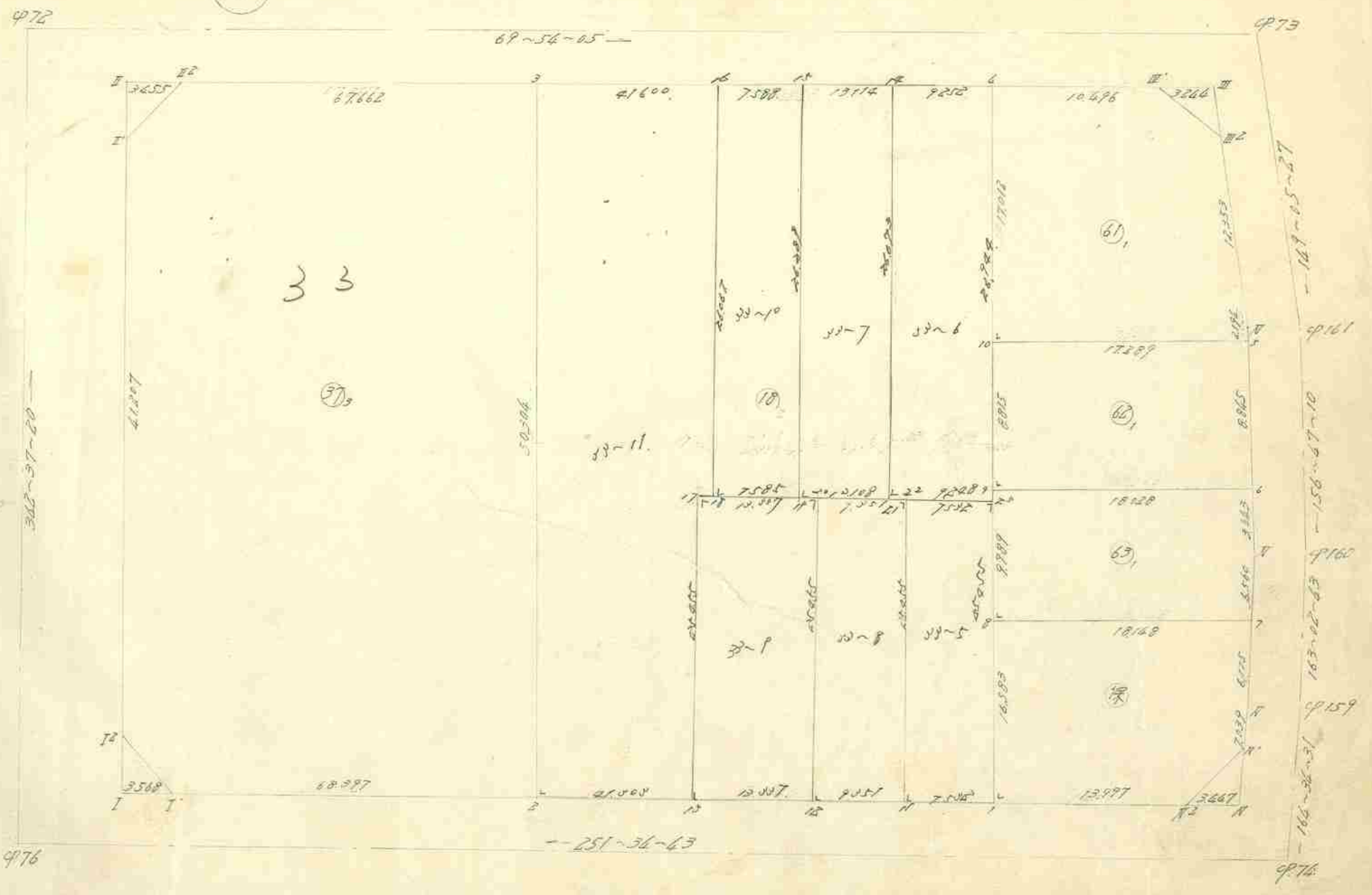
換地面積計算書

草川工区

昭和39年12月実測

全4冊の内3 (41~60)

41

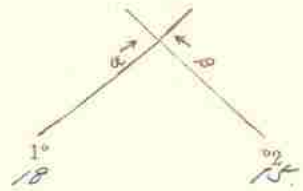


# 各筆面積計算集計表

ブロック 番号	各筆確定			備考	各筆 番号	各筆確定			備考
	各筆 番号	面 m <sup>2</sup>	積 坪			各筆 番号	面 m <sup>2</sup>	積 坪	
41	97 <sub>2</sub>	2510	746	1068 00					
	10 <sub>2</sub>	3470	856	1111 04					
	61 <sub>1</sub>	264	454	80 00					
	62 <sub>1</sub>	155	451	47 08					
	63 <sub>1</sub>	181	409	55 03					
	18	290	646	87 76					
	33-5	191	710	157 99					
	33-6	247	933	75 00					
	33-7	347	128	105 00					
	33-8	248	693	72 01					
	33-9	339	502	112 70					
	33-10	198	555	60 08					
	33-11	2109	950	638 26					
	10 <sub>2</sub>	3470	856	1111 04					
					計				
						m <sup>2</sup>		坪	
					ブロック計算 =	8075.712		ブロック計算 =	2442.90
					各筆集計 =	8075.892 (-		各筆集計 =	2442.89 (-
					ε =	.021		ε =	.01

協和建設測量

算出点 16



$$\begin{aligned} X_2 &= - 101181.0375 \\ X_1 &= - 11991.0145 \\ \Delta X &= - 11991.0145 \end{aligned}$$

$$\alpha = 52^\circ - 54' - 12''$$

$$\beta = 24^\circ - 54' - 10''$$

$$\beta - \alpha = 188^\circ - 14' - 22''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 1111.01178 \\ \Delta X \times \textcircled{4} &= 1111.01178 \\ E &= 1111.01178 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 1111.01178$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 1111.01178 \\ X_1 &= - 1111.01178 (+) \\ X &= - 1111.01178 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 1111.01178 \\ Y_1 &= - 1111.01178 (+) \\ Y &= - 1111.01178 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 1111.01178 \\ Y_1 &= - 1111.01178 \\ \Delta Y &= 0 \end{aligned}$$

$$\text{Cos} \alpha = 0.61566148 \textcircled{1}$$

$$\text{Sin} \alpha = 0.78937173 \textcircled{2}$$

$$\text{Cos} \beta = 0.90630769 \textcircled{3}$$

$$\text{sin} \beta = 0.42261826 \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = -0.61566148 \textcircled{5}$$

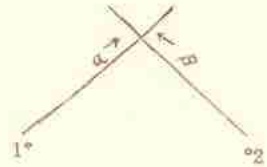
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 1111.01178 \\ \Delta X \times \textcircled{2} &= 1111.01178 \\ F &= 1111.01178 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 1111.01178$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 1111.01178 \\ X_2 &= - 1111.01178 (+) \\ X &= - 1111.01178 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 1111.01178 \\ Y_2 &= - 1111.01178 (+) \\ Y &= - 1111.01178 \end{aligned}$$

算出点  



$$\begin{aligned} X_2 &= - \dots \\ X_1 &= - \dots \\ \Delta X &= - \dots \end{aligned}$$

$$\alpha = \dots$$

$$\beta = \dots$$

$$\beta - \alpha = \dots$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= - \dots \\ \Delta X \times \textcircled{4} &= - \dots \\ E &= \dots \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = \dots$$

$$\begin{aligned} S_1 \times \textcircled{1} &= - \dots \\ X_1 &= - \dots (+) \\ X &= - \dots \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= - \dots \\ Y_1 &= - \dots (+) \\ Y &= - \dots \end{aligned}$$

$$\begin{aligned} Y_2 &= - \dots \\ Y_1 &= - \dots \\ \Delta Y &= - \dots \end{aligned}$$

$$\text{Cos} \alpha = - \dots \textcircled{1}$$

$$\text{Sin} \alpha = - \dots \textcircled{2}$$

$$\text{Cos} \beta = - \dots \textcircled{3}$$

$$\text{sin} \beta = - \dots \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = - \dots \textcircled{5}$$

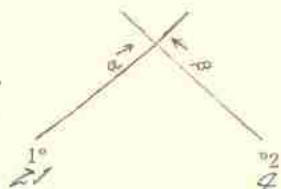
$$\begin{aligned} \Delta Y \times \textcircled{1} &= - \dots \\ \Delta X \times \textcircled{2} &= - \dots \\ F &= \dots \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = \dots$$

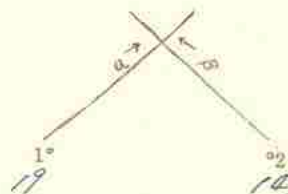
$$\begin{aligned} S_2 \times \textcircled{3} &= - \dots \\ X_2 &= - \dots (+) \\ X &= - \dots \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= - \dots \\ Y_2 &= - \dots (+) \\ Y &= - \dots \end{aligned}$$

算出点 14



算出点 15



$$\begin{aligned} X_2 &= - 150561.0178 \\ X_1 &= - 19917.0192 \\ \Delta X &= - 17064.9986 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 2219.0111 \\ Y_1 &= - 22181.0111 \\ \Delta Y &= - 19962.0000 \end{aligned}$$

$$\begin{aligned} X_2 &= - 150561.0178 \\ X_1 &= - 19917.0192 \\ \Delta X &= - 17064.9986 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 2219.0111 \\ Y_1 &= - 22181.0111 \\ \Delta Y &= - 19962.0000 \end{aligned}$$

$$\alpha = 129^\circ - 42' - 18''$$

$$\cos \alpha = 0.1908758 \quad ①$$

$$\alpha = 119^\circ - 11' - 11''$$

$$\cos \alpha = - 0.1908758 \quad ①$$

$$\beta = 229^\circ - 28' - 10''$$

$$\sin \alpha = 0.1816050 \quad ②$$

$$\beta = 119^\circ - 11' - 11''$$

$$\sin \alpha = - 0.1816050 \quad ②$$

$$\cos \beta = 0.1244444 \quad ③$$

$$\beta - \alpha = 119^\circ - 11' - 11''$$

$$\cos \beta = - 0.1244444 \quad ③$$

$$\sin \beta = 0.1699101 \quad ④$$

$$\sin \beta = - 0.1699101 \quad ④$$

$$\beta - \alpha = 180^\circ - 129^\circ - 28'$$

$$\sin(\beta - \alpha) = - 0.1999577 \quad ⑤$$

$$\sin(\beta - \alpha) = - 0.1999577 \quad ⑤$$

$$\begin{aligned} \Delta Y \times ③ &= 0.1111.0111 \\ \Delta X \times ④ &= 0.1111.0111 \\ E &= 1.1111.0111 \end{aligned}$$

$$\begin{aligned} \Delta Y \times ① &= 1.1111.0111 \\ \Delta X \times ② &= 0.1111.0111 \\ F &= 1.1111.0111 \end{aligned}$$

$$\begin{aligned} \Delta Y \times ③ &= 0.1111.0111 \\ \Delta X \times ④ &= 0.1111.0111 \\ E &= 1.1111.0111 \end{aligned}$$

$$\begin{aligned} \Delta Y \times ① &= 1.1111.0111 \\ \Delta X \times ② &= 0.1111.0111 \\ F &= 1.1111.0111 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 1.1111.0111$$

$$S_2 = \frac{F}{⑤} = 1.1111.0111$$

$$S_1 = \frac{E}{⑤} = 1.1111.0111$$

$$S_2 = \frac{F}{⑤} = 1.1111.0111$$

$$\begin{aligned} S_1 \times ① &= 1.1111.0111 \\ X_1 &= - 1.1111.0111 \\ X &= - 1.1111.0111 \end{aligned}$$

$$\begin{aligned} S_2 \times ③ &= 0.1111.0111 \\ X_2 &= - 0.1111.0111 \\ X &= - 1.1111.0111 \end{aligned}$$

$$\begin{aligned} S_1 \times ① &= 1.1111.0111 \\ X_1 &= - 1.1111.0111 \\ X &= - 1.1111.0111 \end{aligned}$$

$$\begin{aligned} S_2 \times ③ &= 0.1111.0111 \\ X_2 &= - 0.1111.0111 \\ X &= - 1.1111.0111 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 0.1111.0111 \\ Y_1 &= - 0.1111.0111 \\ Y &= - 0.1111.0111 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0.1111.0111 \\ Y_2 &= - 0.1111.0111 \\ Y &= - 0.1111.0111 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 0.1111.0111 \\ Y_1 &= - 0.1111.0111 \\ Y &= - 0.1111.0111 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0.1111.0111 \\ Y_2 &= - 0.1111.0111 \\ Y &= - 0.1111.0111 \end{aligned}$$

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 11-4	2	6647.093	-	4 2.768	3459.155	-	0 27.991				
	3	6634.665	-	1 22.087	3464.441	-	1 17.419	255.250		760.698	
	13	6625.006	-	0 2.768	3441.736	-	1 27.991	120.123			35.485
	14	6637.433	-	0 22.087	3436.450	-	0 17.419		303.665		145.961

控除シタル値

X = 於テ 6620 -

y = 於テ 3230 -

$$\Sigma = 295.570, 1062.025, 801.299, 174.946$$

$$2S = 666.256$$

$$666.256$$

$$S = 333.128$$

10.8.27 年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 11-5	6	6615.343	-	0 2.778	3419.918	-	1 27.973	149.960			25.052
	7	6627.784	-	0 22.090	3413.763	-	0 17.432		310.011		83.125
	14	6637.433	-	1 2.778	3436.450	-	0 27.973		767.088	79.278	
	13	6625.006	-	1 22.090	3441.736	-	1 17.432	261.585		701.098	

控除シタル値

X = 於テ 6610 -

y = 於テ 3210 -

$$\Sigma = 411.045, 1077.394, 774.526, 106.177$$

$$2S = 666.849$$

$$666.849$$

$$S = 333.424$$

10.7.27 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
								+	-	+	-
41		(1)	(2)	(3)	(4)	(5)	(6)				
筆番号	1	5970.260	-	726.500	2225.569	-	0.899				
	11	5970.980	-	21.770	2228.920	-	115.190	60.517			180.090
33~5	22	5998.100	-	26.500	2220.379	-	1.899	25.092			10.055
	20	6000.510	-	21.770	2227.525	-	915.190			163.819	
									263.508		

控除シタル値

X = 於テ 5970.

y = 於テ 2220

$$\Sigma = \frac{85}{25} \frac{809}{269} \frac{229}{576} \frac{865}{190} \frac{225}{225}$$

$$2S = \frac{483.250}{191.710}$$

$$S = 191.710$$

5799年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
								+	-	+	-
41		(1)	(2)	(3)	(4)	(5)	(6)				
筆番号	9	6026.078	-	122.085	2219.011	-	0.17200				
	20	6000.510	-	28.286	2227.525	-	1.260	2.734			499.217
33~6	21	5997.596	-	22.085	2219.751	-	1.17200	180.605			195.891
	19	6027.899	-	28.286	2210.025	-	0.260			8.554	9.172

控除シタル値

X = 於テ 5990.

y = 於テ 2210.

$$\Sigma = \frac{103}{25} \frac{229}{204} \frac{204}{200} \frac{225}{225}$$

$$2S = \frac{495.865}{227.932}$$

$$S = 227.932$$

7000年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
41 筆番号 33-7	12	6022.899		+20,900	2219.322						
	21	5997.596		+29,999	2218.751			30,429		216,688	
	19	5998.250		⊖20,900	2206.814			71,567			339,331
	15	6018.292		⊖29,999	2198.007					113,795	235,798

控除シタル値

X = 於テ 5990

y = 於テ 9190

$$\Sigma = 101 \quad 996 \quad 796 \quad 252 \quad 1269 \quad 386 \quad 575 \quad 129$$

$$2S = -699.256$$

$$699.257$$

$$S = 347.128$$

105.0024 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
41 筆番号 33-8	22	5998.184	-7	+21,195	2220.379						
	11	5978.984		+27,105	2228.424			3,299		499,383	
	12	5971.089		⊖21,195	2219.551			17,208			202,433
	20	5995.179		⊖27,105	2211.507					20,848	26,867

控除シタル値

X = 於テ 5970

y = 於テ 9210

$$\Sigma = 20 \quad 707 \quad 496 \quad 791 \quad 711 \quad 866 \quad 223 \quad 280$$

$$2S = -276.084$$

$$276.086$$

$$S = 238.043$$

72.0124 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	ΔY <sub>n</sub> +ΔY <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
41 筆番号 33~9	20	5995.179	-	119.946	2211.507	-	0	20.698		728.125	228.764	
	12	5971.029	-	128.465	2219.551	-	0	4.610	50.822		838.212	
	13	5966.814	-	19.946	2206.897	-	0	20.698	121.226			226.809
	17	5990.965	-	28.465	2198.853	-	0	4.610		122.729		251.115

控除シタル値

X = 於テ 5960.

y = 於テ 2190.

$$\Sigma = \underline{191 \quad 880 \quad 870 \quad 884 \quad 1266 \quad 978 \quad 587 \quad 974}$$

$$2S = \underline{679.004 \quad 279.004}$$

$$S = \underline{339.502}$$

105.7024 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	ΔY <sub>n</sub> +ΔY <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
41 筆番号 33~10	15	6018.492	-	122.222	2198.007	-	0	15.222		238.174	179.828	
	19	5994.250	-	127.222	2206.314	-	0	1.111		0.833	226.008	
	18	5991.053	-	22.222	2199.118	-	0	15.222	16.251			203.141
	16	6015.784	-	27.222	2190.881	-	0	1.111	28.646			29.086

控除シタル値

X = 於テ 5990.

y = 於テ 2190.

$$\Sigma = \underline{22 \quad 897 \quad 222 \quad 007 \quad 622 \quad 836 \quad 227 \quad 727}$$

$$2S = \underline{397.110 \quad 397.109}$$

$$S = \underline{198.555}$$

60.0624 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
41 筆番号 33-11	16	6015.784	-	10.235	9190.881	-	47.404			3117.806	286.593	
	18	5991.053	-	24.819	9189.118	-	7.972			327.275	1219.060	
	17	5990.965	-	24.239	9190.953	-	7.779			318.667	1184.148	
	13	5966.814	-	27.202	9206.897	-	31.143	563.638			2116.682	
	2	5953.760	-	20.670	9167.710	-	55.093	207.277				614.077
	3	6001.988	-	62.021	9151.819	-	24.171				1193.028	112.506
			-			-						

控除シタル値

X = 於テ 5950

y = 於テ 4150

$\Sigma = 730 \quad 915 \quad 9950 \quad 816 \quad 2926 \quad 283 \quad 726 \quad 583$

2S = 9218.901      9619.900

S = 2109.950

1982.624 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-

控除シタル値

X = 於テ

y = 於テ

$\Sigma =$

2S =

S =

年 月 日 印

算用紙

NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
	(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 2	5953.762	-	+ 49.2394.167.710	-	-	+ 48.996	2.634.123	,	11.628.844	,
① 276 <sup>1</sup>	5932.149	-	+ 19.336.4102.818	-	-	+ 69.343	2.229.308	,	1988.089	,
② 276 <sup>2</sup>	5934.426	-	0 47.604.4098.367	-	-	+ 14.758	576.911	,	,	4.092.461
③ 276 <sup>3</sup>	5973.753	-	9 43.811.4086.060	-	-	+ 10.194	744.463	,	,	3.770.375
④ 276 <sup>4</sup>	5978.237	-	0 27.735.4088.273	-	-	0 65.754	,	5.144.396	,	2.448.252
3	6001.488	-	+ 24.475.4.151.814	-	-	0 79.437	,	8.061.908	3.715.648	,

控除シタル値

X = 於テ 5.900  
y = 於テ 4.000

$$\bar{x} = \frac{6184.805}{25} = 247.362$$

$$\bar{y} = \frac{13206.298}{25} = 528.252$$

$$s_x = \frac{7021.493}{25} = 280.877$$

$$s_y = \frac{7021.493}{25} = 280.877$$

$$s = \frac{3510.746}{25} = 140.430$$

1.062.00<sup>円</sup> 年 月 日

計算用紙

NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
	(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 1	5976.364	-	+ 72.3104.235.569	-	-	+ 51.301	7.352.500	,	6.188.008	,
① 276	5953.762	-	0 25.124.4.167.710	-	-	+ 83.755	1.315.086	,	,	4.444.946
② 276	6001.488	-	0 72.3164.151.814	-	-	0 51.301	,	2.641.386	,	1.731.181
③ 276	6026.078	-	+ 25.154.4.219.011	-	-	0 83.755	,	6.371.913	7.733.832	,

控除シタル値

X = 於テ 5.950  
y = 於テ 4.150

$$\bar{x} = \frac{7167.586}{25} = 286.703$$

$$\bar{y} = \frac{9013.299}{25} = 360.532$$

$$s_x = \frac{7345.713}{25} = 293.829$$

$$s_y = \frac{7345.713}{25} = 293.829$$

$$s = \frac{3672.856}{25} = 146.914$$

1.111.04<sup>円</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ⑥ <sub>1</sub>	10	6009.938	-	⊖ 10.677	4224.386	-	+ 21.778	216.439	/	/	260.369
	4	6026.078	-	⊖ 19.747	4219.011	-	⊖ 4.482	/	116.882	/	375.410
	φ <sub>73</sub> <sup>Ⅱ</sup>	6029.685	-	⊖ 4.939	4228.868	-	⊖ 14.569	/	432.481	/	55.975
	φ <sub>73</sub> <sup>Ⅱ</sup>	6028.017	-	+ 12.267	4233.580	-	⊖ 11.057	/	309.786	411.926	/
	φ <sub>161</sub> <sup>Ⅱ</sup>	6017.418	-	+ 12.676	4239.925	-	⊖ 7.209	/	125.566	503.696	/
	5	6015.401	-	+ 7.480	4240.789	-	+ 15.539	239.376	/	305.102	/

控除シタル値

Xニ於テ 6.000

yニ於テ 4.200

$\bar{z} = \frac{455.746}{28} = 16.277$      $\frac{984.713}{28} = 35.168$      $\frac{1680.733}{28} = 60.026$      $\frac{691.754}{28} = 24.706$

$2S = 528.967$

$528.968$

$S = 264.484$

年 月 日

80.00<sup>2</sup>

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ⑥ <sub>1</sub>	9	6001.575	-	⊖ 2.866	4227.172	-	+ 19.890	37.329	/	/	72.461
	10	6009.938	-	⊖ 13.826	4224.386	-	⊖ 13.617	/	133.326	/	337.161
	5	6015.401	-	+ 2.866	4240.789	-	⊖ 19.890	/	306.326	108.743	/
	6	6007.272	-	+ 13.826	4244.276	-	+ 13.617	99.023	/	873.160	/

控除シタル値

Xニ於テ 6.000

yニ於テ 4.200

$\bar{z} = \frac{130.350}{28} = 4.655$      $\frac{441.657}{28} = 15.772$      $\frac{870.903}{28} = 31.104$      $\frac{409.607}{28} = 14.629$

$2S = 311.302$

$311.301$

$S = 155.651$

年 月 日

47.08<sup>2</sup>

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 63	7	5.997.833	-	+ 12.616	4.247.547	-	+ 15.304	119.876			330.839	
	8	5.992.098	-	0 3.742	4.230.329	-	+ 20.375	42.747				38.857
	9	6.001.575	-	0 15.174	4.227.172	-	0 13.947		161.437			108.828
	6	6.007.272	-	0 2.533	4.244.276	-	0 18.461		318.858			61.491
	9160	6.004.108	-	+ 9.439	4.245.633	-	0 3.271		46.147		241.950	

控除シタル値

X=於テ 5.990

y=於テ 4.220

$\Sigma =$  182.673 586.442 572.789 208.970

$\Sigma^2 =$  363.819 363.819

S = 181.909

年 月 日

55.05.29

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 64	976	5.980.787	-	+ 8.835	4.248.849	-	+ 15.633	168.633			166.531	
	1	5.976.364	-	0 11.311	4.235.569	-	+ 18.520	117.861				62.991
	8	5.992.098	-	0 21.469	4.230.329	-	0 17.978		266.690			17.063
	7	5.997.833	-	+ 7.116	4.247.547	-	0 19.001		1528.855		2.000	
	9159	5.991.984	-	+ 12.634	4.249.329	-	0 3.655		80.352		244.215	
	976	5.985.199	-	+ 11.197	4.251.202	-	+ 4.481	67.381			237.399	

控除シタル値

X=於テ 5.970

y=於テ 4.230

$\Sigma =$  292.805 872.897 650.145 70.656

$\Sigma^2 =$  580.092 580.092

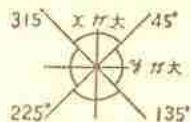
S = 290.046

年 月 日

87.76.29

多角点計算用紙

測量No.



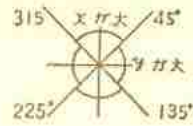
象 限	I	+	+	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	φ74 <sup>N</sup>	"		"	.			.	.	.	.	5981.876	4252.119	φ74 <sup>N</sup>
φ74 <sup>N</sup>	φ74 <sup>N2</sup>			251 34 43	3.467			.	.	.	.	5980.787	4248.849	φ74 <sup>N2</sup>
φ74 <sup>N2</sup>	1			'	13.997			.	.	.	.	5976.364	4235.589	1
1	2	153 9 17		'	71.523			.	.	.	.	5953.762	4167.710	2
2	φ76 <sup>I'</sup>			'	68.397			.	.	.	.	5932.149	4102.818	φ76 <sup>I'</sup>
φ76 <sup>I'</sup>	φ76 <sup>I</sup>			'	3.568			.	.	.	.	5931.021	4099.433	φ76 <sup>I</sup>
φ76 <sup>I</sup>	φ76 <sup>I2</sup>			342 37 20	3.568			.	.	.	.	5934.426	4098.367	φ76 <sup>I2</sup>
φ76 <sup>I2</sup>	φ72 <sup>I'</sup>			'	41.207			.	.	.	.	5973.753	4086.060	φ72 <sup>I'</sup>
φ72 <sup>I'</sup>	φ72 <sup>I</sup>			'	3.455			.	.	.	.	5977.050	4085.028	φ72 <sup>I</sup>
φ72 <sup>I</sup>	φ72 <sup>I2</sup>			69 56 05	3.455			.	.	.	.	5978.237	4088.273	φ72 <sup>I2</sup>
φ72 <sup>I2</sup>	3			'	67.662			.	.	.	.	6001.488	4151.814	3
3	4	149 7 12		'	71.554			.	.	.	.	6026.078	4219.011	4
4	φ73 <sup>II'</sup>			'	10.496			.	.	.	.	6029.685	4228.868	φ73 <sup>II'</sup>
φ73 <sup>II'</sup>	φ73 <sup>II</sup>			'	3.244			.	.	.	.	6030.800	4231.916	φ73 <sup>II</sup>
φ73 <sup>II</sup>	φ73 <sup>II2</sup>			149 05 27	3.244			.	.	.	.	6028.017	4233.580	φ73 <sup>II2</sup>
φ73 <sup>II2</sup>	φ161 <sup>N</sup>			'	12.353			.	.	.	.	6017.418	4239.925	φ161 <sup>N</sup>
φ161 <sup>N</sup>	5			156 47 10	2.196			.	.	.	.	6015.401	4240.789	5
5	6	14 48 2		'	8.845			.	.	.	.	6007.272	4244.276	6
6	φ160 <sup>N</sup>			'	3.443			.	.	.	.	6006.108	4245.633	φ160 <sup>N</sup>
φ160 <sup>N</sup>	7	12 67 5		163 02 43	6.560			.	.	.	.	5997.833	4247.547	7
7	φ159 <sup>N</sup>			'	6.115			.	.	.	.	5991.984	4249.330	φ159 <sup>N</sup>
φ159 <sup>N</sup>	φ74 <sup>N'</sup>			164 34 31	7.039			.	.	.	.	5985.199	4251.202	φ74 <sup>N'</sup>
φ74 <sup>N'</sup>	φ74 <sup>N</sup>			'	3.467			.	.	.	.	5981.876	4252.119	φ74 <sup>N</sup>

協和建設測量

多角点計算用紙

測量No.

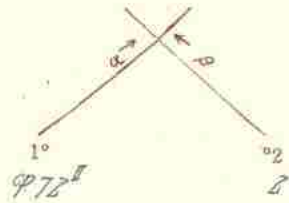


象 限	I	+	+	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	776 <sup>I</sup>	"		"	.			.	.	.	.	5936.021	4099.433	776 <sup>I</sup>
776 <sup>I</sup>	8			71 34 43	71.965	316003	948758	22.741	68.277	.	.	5953.782	4167.710	8
	776 <sup>II</sup>				11.380			.	.	.	.	5981.876	4250.119	776 <sup>II</sup>
776 <sup>II</sup>	1			251 34 43	17.044	316003	948758	5.512	16.556	.	.	5976.366	4235.569	1
	6				.			.	.	.	.	6086.078	4219.011	6
6	10			161 34 43	17.012	316003	948758	16.140	5.376	.	.	6009.938	4226.386	10
10	9			"	8.815	"	"	8.363	2.786	.	.	6001.575	4227.172	9
9	8			"	9.989	"	"	9.477	3.157	.	.	5992.098	4230.329	8
	1				.			.	.	.	.	5976.366	4235.569	1
1	11			251 34 43	7.022	316003	948758	2.380	7.126	.	.	5973.984	4228.464	11
11	12			"	9.051	"	"	2.955	8.877	.	.	5976.027	4219.051	12
12	13			"	13.007	"	"	4.215	12.654	.	.	5916.814	4206.897	13
13	17			091 34 28	25.225	"	"	24.151	8.004	.	.	5990.965	4198.852	17
17	18			71 34 28	2.779	"	"	0.888	2.615	.	.	5991.053	4199.198	18
18	19			"	2.085	"	"	2.097	7.196	.	.	5992.450	4206.814	19
19	20			"	5.073	"	"	1.789	5.193	.	.	5995.179	4215.507	20
20	21			"	7.635	"	"	2.413	7.294	.	.	5997.592	4218.751	21
21	22			"	1.716	"	"	0.522	1.628	.	.	5998.104	4220.379	22
22	23			"	2.042	"	"	2.380	7.146	.	.	6000.512	4227.525	23
23	9			041 34 28	1.117	"	"	1.066	0.350	.	.	6001.075	4227.176	9

協和建設測量

算出点 3



$$\begin{aligned} X_2 &= -59531.1762 \\ 97.2^\circ X_1 &= -59171.1055 \\ \Delta X &= -21231.2888 \end{aligned}$$

$$\begin{aligned} Y_2 &= -411617.1710 \\ Y_1 &= -408951.0288 \\ \Delta Y &= +1821.1688 \end{aligned}$$

$$\alpha = 169^\circ - 54' - 25''$$

$$\cos \alpha = +.134316377 \text{ ①}$$

$$\sin \alpha = +.1931911013 \text{ ②}$$

$$\beta = 134^\circ - 34' - 23''$$

$$\cos \beta = +.1944875781 \text{ ③}$$

$$\sin \beta = 9.1311612103 \text{ ④}$$

$$\beta - \alpha = 125^\circ - 44' - 38''$$

$$\sin(\beta - \alpha) = -.1919151717 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +1178.44521 \\ \Delta X \times \text{④} &= +1171.35908 \\ E &= 1171.108613 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +1178.44529 \\ \Delta X \times \text{②} &= 91171.86983 \\ F &= 1151.28242 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 1711.17166$$

$$S_2 = \frac{F}{\text{⑤}} = 151.130150$$

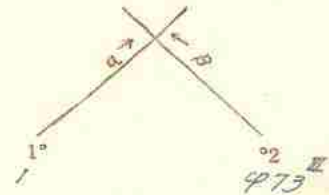
$$\begin{aligned} S_1 \times \text{①} &= +1174.1438 \\ X_1 &= -59171.1055 \\ X &= -610101.10288 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= +1147.1726 \\ X_2 &= -59531.1762 \\ X &= -610101.10288 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +1161.1786 \\ Y_1 &= -408951.0288 \\ Y &= -411511.1816 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= \ominus 1151.1696 \\ Y_2 &= -411617.1710 \\ Y &= -411511.1816 \end{aligned}$$

算出点 4



$$\begin{aligned} 97.3^\circ X_2 &= -610101.1810 \\ X_1 &= -59171.1036 \\ \Delta X &= -71154.1416 \end{aligned}$$

$$\alpha = 134^\circ - 34' - 43''$$

$$\beta = 124^\circ - 54' - 25''$$

$$\beta - \alpha = 128^\circ - 44' - 42''$$

$$\begin{aligned} Y_2 &= -42211.1916 \\ Y_1 &= -42211.1916 \\ \Delta Y &= \ominus 111.1916 \end{aligned}$$

$$\cos \alpha = +.1944875781 \text{ ①}$$

$$\sin \alpha = 9.1311612103 \text{ ②}$$

$$\cos \beta = -.134316377 \text{ ③}$$

$$\sin \beta = 9.1931911013 \text{ ④}$$

$$\sin(\beta - \alpha) = -.1919151717 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +111.1916 \\ \Delta X \times \text{④} &= 91151.1810 \\ E &= 1151.130150 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= \ominus 111.1916 \\ \Delta X \times \text{②} &= \ominus 1171.10194 \\ F &= 1171.173483 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 151.130150$$

$$S_2 = \frac{F}{\text{⑤}} = 1171.173483$$

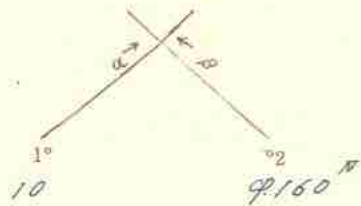
$$\begin{aligned} S_1 \times \text{①} &= +1147.1726 \\ X_1 &= -59171.1036 \\ X &= -610101.10288 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= \ominus 1147.1726 \\ X_2 &= -610101.1810 \\ X &= -610101.10288 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= \ominus 1161.1786 \\ Y_1 &= -408951.0288 \\ Y &= -411511.1816 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= \ominus 1151.1696 \\ Y_2 &= -411617.1710 \\ Y &= -411511.1816 \end{aligned}$$

算出點 5



$$\begin{aligned} 9160 X_2 &= -6101061.11018 \\ 10 X_1 &= -6101091.938 \\ \hline \Delta X &= -9115.830 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42451.6133 \\ Y_1 &= -42241.386 \\ \hline \Delta Y &= +121.227 \end{aligned}$$

$$\alpha = 171^\circ - 38' - 43''$$

$$\cos \alpha = 7.13116101013 \quad \textcircled{1}$$

$$\beta = 1338 - 47 - 10''$$

$$\sin \alpha = 7.194187518 \quad \textcircled{2}$$

$$\cos \beta = 7.1911904101 \quad \textcircled{3}$$

$$\sin \beta = 7.13941651 \quad \textcircled{4}$$

$$\sin(\beta - \alpha) = -7.19165014 \quad \textcircled{5}$$

$$\Delta Y \times \textcircled{3} = +1119.52684$$

$$\Delta Y \times \textcircled{1} = +1161.71418$$

$$\Delta X \times \textcircled{4} = +1121.39788$$

$$\Delta X \times \textcircled{2} = -115.53186$$

$$E = 1171.22886$$

$$F = 112.24538$$

$$S_1 = \frac{E}{\textcircled{5}} = 1171.22886$$

$$S_2 = \frac{F}{\textcircled{5}} = 112.24538$$

$$S_1 \times \textcircled{1} = -1115.463$$

$$S_2 \times \textcircled{3} = +1111.293$$

$$X_1 = -6101091.938$$

$$X_2 = -6101061.11018$$

$$X = -610115.1401$$

$$X = -610151.401$$

$$S_1 \times \textcircled{2} = +1116.4103$$

$$S_2 \times \textcircled{4} = -1116.844$$

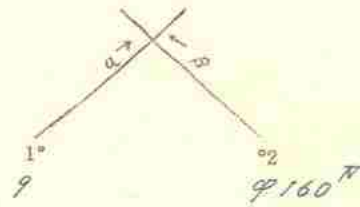
$$Y_1 = -42241.386$$

$$Y_2 = -42451.6133$$

$$Y = -424101.789$$

$$Y = -424101.789$$

算出點 6



$$\begin{aligned} 9160 X_2 &= -6101061.11018 \\ 9 X_1 &= -6101071.575 \\ \hline \Delta X &= -11121.533 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42451.6133 \\ Y_1 &= -42217.1172 \\ \hline \Delta Y &= -234.496 \end{aligned}$$

$$\alpha = 171^\circ - 38' - 43''$$

$$\cos \alpha = 7.13116101013 \quad \textcircled{1}$$

$$\beta = 1338 - 47 - 10''$$

$$\sin \alpha = 7.194187518 \quad \textcircled{2}$$

$$\cos \beta = 7.1911904101 \quad \textcircled{3}$$

$$\sin \beta = 7.13941651 \quad \textcircled{4}$$

$$\sin(\beta - \alpha) = -7.19165014 \quad \textcircled{5}$$

$$\Delta Y \times \textcircled{3} = +1161.71418$$

$$\Delta Y \times \textcircled{1} = +1151.83373$$

$$\Delta X \times \textcircled{4} = -1115.53186$$

$$\Delta X \times \textcircled{2} = +1121.60320$$

$$E = 1117.96482$$

$$F = 113.43058$$

$$S_1 = \frac{E}{\textcircled{5}} = 1117.96482$$

$$S_2 = \frac{F}{\textcircled{5}} = 113.43058$$

$$S_1 \times \textcircled{1} = -1115.463$$

$$S_2 \times \textcircled{3} = +1113.1814$$

$$X_1 = -6101071.575$$

$$X_2 = -6101061.11018$$

$$X = -610171.272$$

$$X = -610171.272$$

$$S_1 \times \textcircled{2} = +1116.4103$$

$$S_2 \times \textcircled{4} = -1116.1357$$

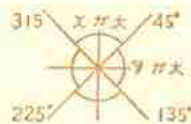
$$Y_1 = -42217.1172$$

$$Y_2 = -42451.6133$$

$$Y = -42414.1276$$

$$Y = -42414.1276$$

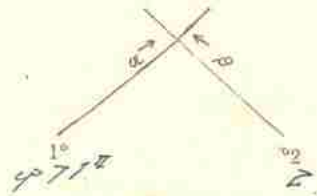




象	I	+	+	+
限	II	-	-	-
	III	-	-	-
	IV	+	+	+

測点	視点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	977 <sup>2</sup>	° 1 "		° 1 "	.			.	.	.	.	5888.124	3986.520	977 <sup>2</sup>
977 <sup>2</sup>	2			67.5205	16.135	0.20637	9.97100	5.545	.	15.756	.	5892.679	3996.692	2
	977 <sup>2</sup>				.			.	.	.	.	5924.556	4086.075	977 <sup>2</sup>
977 <sup>2</sup>	1			209.5205	22.393	0.42637	9.97100	2.926	.	12.516	5919.610	4067.559	1	

算出点 3



$$\begin{aligned} X_2 &= -18990.1679 \\ X_1 &= -18906.6587 \\ \Delta X &= 83.5092 \end{aligned}$$

$$\alpha = 178'' - 54'' - 10''$$

$$\beta = 90'' - 54'' - 10''$$

$$\beta - \alpha = 867'' - 54'' - 10''$$

$$\begin{aligned} \Delta Y \times ④ &= 117.01959 \\ \Delta X \times ④ &= 117.01959 \\ E &= 117.01959 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 117.01959$$

$$\begin{aligned} S_1 \times ① &= 117.01959 \\ X_1 &= - \\ X &= -18906.6587 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 117.01959 \\ Y_1 &= - \\ Y &= -18980.1541 \end{aligned}$$

$$\begin{aligned} Y_2 &= -18990.1679 \\ Y_1 &= -18920.1679 \\ \Delta Y &= 70.0000 \end{aligned}$$

$$\cos \alpha = 1 \quad ①$$

$$\sin \alpha = 1 \quad ②$$

$$\cos \beta = 1 \quad ③$$

$$\sin \beta = 0 \quad ④$$

$$\sin(\beta - \alpha) = -1 \quad ⑤$$

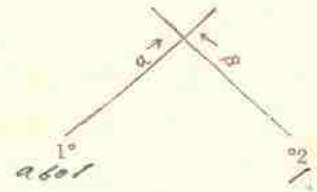
$$\begin{aligned} \Delta Y \times ① &= 70.0000 \\ \Delta X \times ② &= 0 \\ F &= 70.0000 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 70.0000$$

$$\begin{aligned} S_2 \times ③ &= 70.0000 \\ X_2 &= - \\ X &= -18990.1679 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0 \\ Y_2 &= - \\ Y &= -18989.1541 \end{aligned}$$

算出点 4



$$\begin{aligned} X_2 &= -19119.1670 \\ X_1 &= -19077.1676 \\ \Delta X &= 41.9994 \end{aligned}$$

$$\alpha = 159'' - 47'' - 10''$$

$$\beta = 90'' - 47'' - 10''$$

$$\beta - \alpha = 879'' - 47'' - 10''$$

$$\begin{aligned} \Delta Y \times ③ &= 110.14274 \\ \Delta X \times ④ &= 110.14274 \\ E &= 110.14274 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 110.14274$$

$$\begin{aligned} S_1 \times ① &= 110.14274 \\ X_1 &= - \\ X &= -19066.1676 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 110.14274 \\ Y_1 &= - \\ Y &= -19051.820 \end{aligned}$$

$$\begin{aligned} Y_2 &= -19067.1679 \\ Y_1 &= -19041.1677 \\ \Delta Y &= 26.0002 \end{aligned}$$

$$\cos \alpha = 1 \quad ①$$

$$\sin \alpha = 1 \quad ②$$

$$\cos \beta = 1 \quad ③$$

$$\sin \beta = 0 \quad ④$$

$$\sin(\beta - \alpha) = -1 \quad ⑤$$

$$\begin{aligned} \Delta Y \times ① &= 26.0002 \\ \Delta X \times ② &= 0 \\ F &= 26.0002 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 26.0002$$

$$\begin{aligned} S_2 \times ③ &= 26.0002 \\ X_2 &= - \\ X &= -19066.1676 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0 \\ Y_2 &= - \\ Y &= -19051.820 \end{aligned}$$

面積計算用紙

街廓番号 42	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 75	472 <sup>1</sup>	5968.088	-	1 20.780	2071.068	-	0 15.709			912.504	859.150	
	472 <sup>2</sup>	5929.020	-	1 20.515	2082.888	-	0 10.007			190.533	1229.093	
	472 <sup>3</sup>	5924.556	-	1 9.230	2081.075	-	1 15.729	228.951			293.037	
	1	5919.610	-	0 38.066	2067.559	-	1 29.255	281.101				668.201
	4	5962.622	-	0 50.210	2051.820	-	0 0.020		1.052			91.302
	2603	5969.820	-	0 5.266	2067.579	-	0 19.248					76.087
									1151.215			

控除シタル値

X = 於テ 5970

y = 於テ 2050

$$\Sigma = 519 \quad 092 \quad 2255 \quad 504 \quad 2601 \quad 283 \quad 855 \quad 870$$

$$2S = 1745.216$$

$$1745.413$$

$$S = 872.706$$

26200 年 月 日

面積計算用紙

街廓番号 42	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 87	2	5962.622	-	1 39.246	2051.820	-	0 26.172			1900.668	2746.828	
	1	5919.610	-	1 68.943	2067.559	-	1 55.128	1632.420			6236.580	
	2	5890.679	-	0 19.907	2996.692	-	1 87.208	320.909				313.926
	3	5938.217	-	0 14.177	2980.221	-	0 22.675		2163.998			21.601
	2601	5957.856	-	0 24.205	2041.387	-	0 71.499			2251.626		1285.872

控除シタル値

X = 於テ 5970

y = 於テ 2980

$$\Sigma = 1753 \quad 289 \quad 8916 \quad 297 \quad 8783 \quad 208 \quad 1920 \quad 399$$

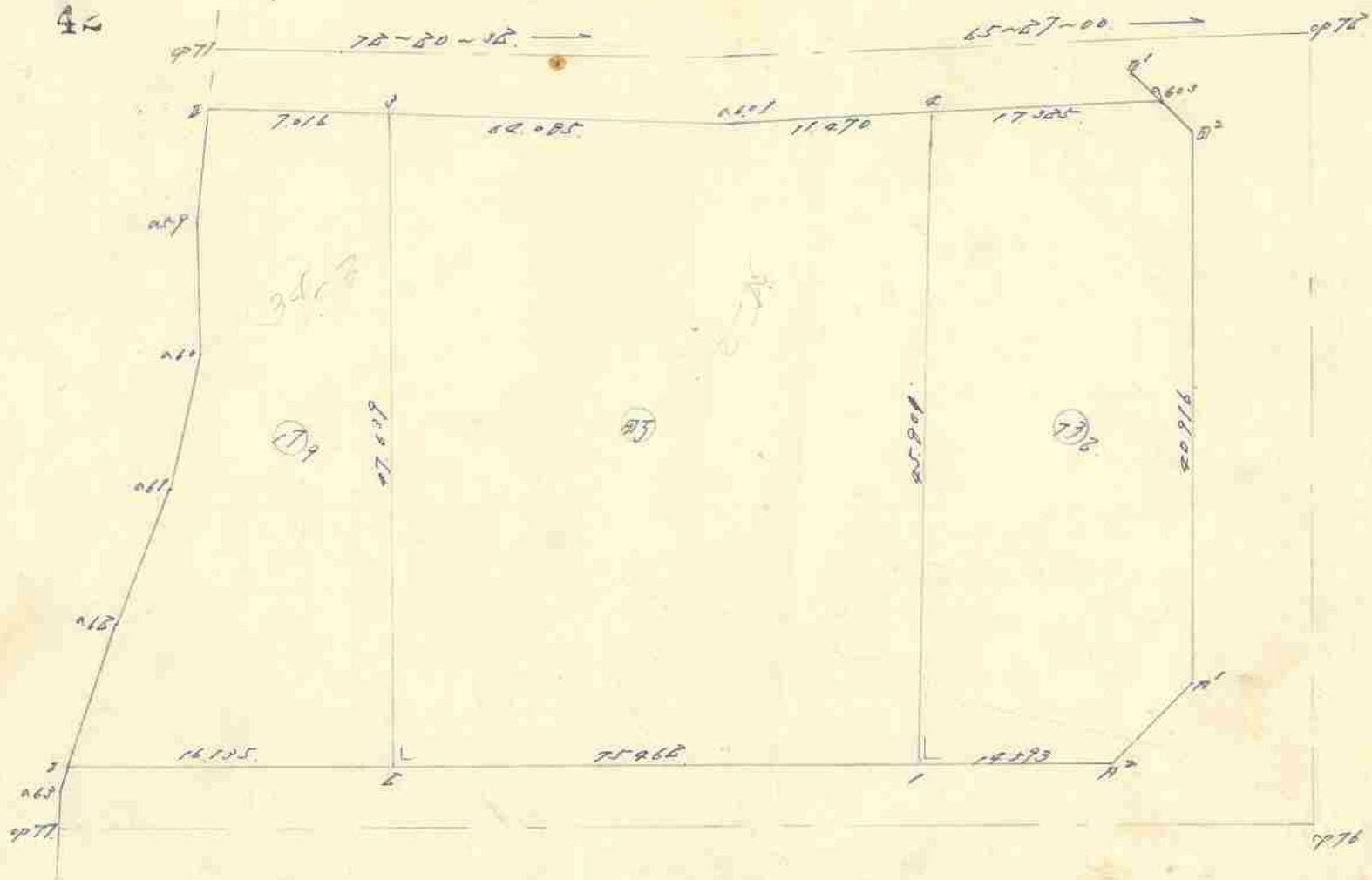
$$2S = 5913.008$$

$$6963.009$$

$$S = 2981.504$$

1052.1524 年 月 日





42

971  $\xrightarrow{75-80-35}$   $\xrightarrow{65-27-00}$  972

7.016 62.025 11.070 17.525

3dr

79

83

77

979

980

981

982

16.725

75.962

14.593

20.916

25.904

977

977

976

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	$\Delta X + \Delta X_{n+1}$	Yn	Yn-Yn+1	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
42 筆番号	4276 <sup>2</sup>	5969.089	-	+ 40.780	2071.068	-	0 15.709	/	/	2640.696	4976.153
	4277 <sup>1</sup>	5929.090	-	+ 42.525	2027.288	-	0 10.007	/	/	1891.903	7978.893
	4276 <sup>1</sup>	5929.556	-	+ 40.906	2081.075	-	+ 101.748	15673.354	/	7607.056	/
	4277 <sup>2</sup>	5889.134	-	+ 36.868	3981.520	-	+ 99.500	8769.333	/	1957.893	/
	462	5888.288	-	0 20.587	3981.575	-	+ 6.189	366.561	/	/	1654.915
	461	5908.421	-	0 33.110	3977.211	-	+ 5.358	580.930	/	/	2563.078
	460	5921.398	-	0 28.786	3976.217	-	+ 9.650	418.853	/	/	1731.955
	459	5931.125	-	0 14.891	3973.941	-	+ 8.581	338.625	/	/	1101.353
4277 <sup>2</sup>	5936.289	-	0 51.711	3970.636	-	0 47.456	/	9189.488	/	1966.891	

控除シタル値

X = 於テ 5800

y = 於テ 3900

$\Sigma =$

2S =

S =

年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	$\Delta X + \Delta X_{n+1}$	Yn	Yn-Yn+1	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号	4601	5957.856	-	0 33.531	2021.287	-	0 92.963	/	14809.466	/	4760.867
	4603	5969.820	-	0 10.838	2067.579	-	0 89.681	/	5040.487	/	1716.668

控除シタル値

X = 於テ

y = 於テ

$\Sigma =$  83165 48625991 11525319 393 15273 704

2S = 9065.686

9065.689

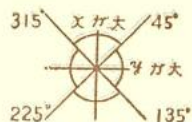
S = 4532.844

年 月 日

1489.1674

多角点計算用紙

測量No. \_\_\_\_\_

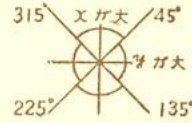


象 限	I	+	+	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	φ76 <sup>II</sup>	° ' "		° ' "	.			.	.	.	.	5925.743	4086.320	φ76 <sup>II</sup>
φ76 <sup>II</sup>	φ76 <sup>II</sup>			269 54 05	13.455	343637	939103	.	6.255	.	17.251	5926.556	4081.075	φ76 <sup>II</sup>
φ76 <sup>II</sup>	1			"	15.011			.	.	.	.	5919.397	4066.979	1
1	2	105.990		"	74.866			.	.	.	.	5893.671	3996.672	φ76 <sup>II</sup>
2	φ77 <sup>I</sup>			229 52 05	18.113	343637	939103	.	6.346	.	17.361	5888.134	3981.540	φ77 <sup>I</sup>
φ77 <sup>I</sup>	a.62			12 45 39	0.158			.	.	.	.	5888.288	3981.575	a.62
a.62	a.61			348 18 52	20.559			.	.	.	.	5908.421	3977.411	a.61
a.61	a.60			356 44 35	13.032	343637	939103	5.537	.	15.132	.	5921.398	3976.217	a.60
a.60	a.59			346 58 05	101.005			45.019	.	.	16.473	5931.165	3973.961	a.59
a.59	φ71 <sup>II</sup>			356 23 01	5.154			.	2.601	.	6.562	5936.289	3973.636	φ71 <sup>II</sup>
φ71 <sup>II</sup>	3			69 54 05	26.988			.	.	.	.	5938.690	3980.198	3
3	4	98.975		"	77.144			.	.	.	.	5965.200	4052.645	4
4	φ72 <sup>III</sup>			"	14.843			.	.	.	.	5970.301	4066.586	φ72 <sup>III</sup>
φ72 <sup>III</sup>	φ72 <sup>III</sup>			"	3.623			.	.	.	.	5971.546	4069.986	φ72 <sup>III</sup>
φ72 <sup>III</sup>	φ72 <sup>III</sup>			162 37 20	3.623			.	.	.	.	5968.088	4071.068	φ72 <sup>III</sup>
φ72 <sup>III</sup>	φ76 <sup>II</sup>			"	40.916			.	.	.	.	5929.060	4083.288	φ76 <sup>II</sup>
φ76 <sup>II</sup>	φ76 <sup>II</sup>			"	3.455			.	.	.	.	5925.743	4086.320	φ76 <sup>II</sup>

多角点計算用紙

測量No.



象	I	+	+	+
限	II	-	-	+
	III	-	-	-
	IV	+	+	-

測点	観点	内角	修正 角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	976 <sup>IV</sup>	° ' "		° ' "	.			.	.	.	.	5925.743	4086.320	976 <sup>IV</sup>
976 <sup>IV</sup>	1			249 54 05	18.466	343637	939103	.	6.346	.	17.341	5919.397	4066.979	1
	972 <sup>II</sup>				.			.	.	.	.	5971.566	4069.986	972 <sup>II</sup>
972 <sup>II</sup>	4			249 54 05	18.466	343637	939103	.	6.346	.	17.341	5965.800	4052.645	4
	977 <sup>I</sup>				.			.	.	.	.	5882.134	3981.560	977 <sup>I</sup>
977 <sup>I</sup>	2			69 54 05	16.113	343637	939103	5.537	.	15.132	.	5893.671	3996.672	2
2	3			339 54 05	47.938	"	"	45.019	.	.	16.473	5938.690	3980.198	3
3	977 <sup>II</sup>			249 54 05	16.988	"	"	.	2.401	1.311	6.562	5936.289	3973.636	977 <sup>II</sup>

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ⑦	976 <sup>1</sup>	5924.556	-	+ 9.643	4081.075	-	+ 16.309	400.486		781.806	
	1	5919.397	-	⊖ 40.644	4066.979	-	+ 28.430	551.457			2722.294
	4	5965.200	-	⊖ 50.904	4052.645	-	+ 39.5	25.756			2679.841
	972 <sup>2</sup>	5970.301	-	⊖ 2.888	4066.584	-	⊖ 18.423		1295.155		192.295
	972 <sup>3</sup>	5968.088	-	+ 41.261	4071.068	-	⊖ 16.704		1137.342	2932.337	
	976 <sup>4</sup>	5929.140	-	+ 43.532	4083.288	-	⊖ 10.007		290.603	3625.693	

控除シタル値

X=於テ 5.900

y=於テ 4.000

$$\bar{z} = \frac{977 \ 695 \ 2723 \ 100 \ 7339 \ 836 \ 5596 \ 430}{2S = \frac{1765.405}{1765.406}}$$

$$S = 872.703$$

264.00<sup>5</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ⑧	1	5919.397	-	+ 50.529	4066.979	-	+ 55.973	57645.438		16221.521	
	2	5893.671	-	⊖ 19.273	3996.672	-	+ 86.781	318.573			321.653
	3	5938.690	-	⊖ 71.529	3980.198	-	⊖ 55.973		2725.325		16.163
	4	5965.200	-	+ 19.293	4052.645	-	⊖ 86.781		6525.931	1401.540	
	5	5766.702	-	- 42.862	4096.121	-	- 4.598		6916.351		6132.462
	6	5711.222	-	- 25.383	4057.645	-	- 21.511		11629.162	3952.928	

控除シタル値

X=於テ 5.890

y=於テ 3.980

$$\bar{z} = \frac{17964.011 \ 9251.856 \ 7629.061 \ 7335.816}{2S = \frac{7287.245}{7287.245}}$$

$$S = 3643.623$$

1102.19<sup>5</sup> 年 月 日

簿面

面積計算用紙

区番測西

区番東

区番南

区番北

街廓番号

NO

$X_n$

$X_n - X_{n+1}$

$\Delta X + \Delta X_{n+1}$

$Y_n$

$Y_n - Y_{n+1}$

$\Delta y_n + \Delta y_{n+1}$

(1) × (6)

(3) × (4)

(1)

(2)

(3)

(4)

(5)

(6)

+

-

+

-

筆番号

2

5893.671

-

+ 30.556 3998.672

-

-

9 17.342

125.706

4.887.350

,

,

977<sup>I</sup>

5888.134

-

+ 5.383 3981.540

-

-

+ 15.997 1320.559

,

438.930

,

,

a62

5888.288

-

0 20.287 3981.575

-

-

+ 6.129 366.561

,

,

1.654.912

,

a61

5908.421

-

0 33.110 3977.411

-

-

+ 5.358 580.920

,

,

2.563.078

,

a60

5921.398

-

A 22.724 3976.217

-

-

+ 3.450 418.823

,

,

1.731.955

,

a59

5931.145

-

A 16.891 3973.961

-

-

+ 2.581 338.485

,

,

1.101.353

,

977<sup>II</sup>

5936.289

-

B 7.545 3973.636

-

-

C 8.227

850.034

,

555.584

,

3

5938.690

-

+ 42.678 3980.198

-

-

C 23.036

3194.863

3417.878

,

,

5

5941.133

-

- 23.911 3981.285

-

-

- 1.165

2.521.224

1.731.955

1.101.353

555.584

控除シクル値

X = 於テ 5.800

y = 於テ 3.900

$\Sigma = 2033.328$   $4170.603$   $8766.158$   $7606.886$

$2S = 1137.275$

$1137.276$

S = 568.638

172.01<sup>24</sup>

年 月 日

簿面

面積計算用紙

区番測西

区番東

区番南

区番北

街廓番号

NO

$X_n$

$X_n - X_{n+1}$

$\Delta X + \Delta X_{n+1}$

$Y_n$

$Y_n - Y_{n+1}$

$\Delta y_n + \Delta y_{n+1}$

(1) × (6)

(3) × (4)

(1)

(2)

(3)

(4)

(5)

(6)

+

-

+

-

筆番号

6

5941.133

-

+ 23.911 3981.285

-

-

7 1.165

2.521.224

1.731.955

1.101.353

555.584

控除シクル値

X = 於テ 5.800

y = 於テ 3.900

$\Sigma = 2201.163$   $7606.886$   $12359.631$   $9067.634$

$2S = 2201.163$

$2201.164$

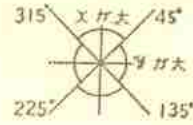
S = 1100.581

253.02<sup>24</sup>

年 月 日

多角点計算用紙

測量No.

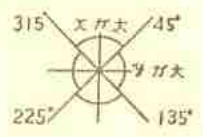


象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	976 <sup>I</sup>	0	"	0	"			.	.	.	.	5925.743	4086.320	976 <sup>I</sup>
976 <sup>II</sup>	976 <sup>II</sup>			269	5605			3.455	.	.	.	5926.556	4081.075	976 <sup>II</sup>
976 <sup>III</sup>	1			.	15.011			.	.	.	.	5919.397	4066.979	1
1	2	195.990		.	74.866			.	.	.	.	5893.671	3996.672	2
2	977 <sup>I</sup>			.	16.113			.	.	.	.	5808.134	3981.560	977 <sup>I</sup>
977 <sup>I</sup>	0.62			12	6539			0.158	.	.	.	5808.288	3981.575	0.62
0.62	0.61			348	1852			20.559	.	.	.	5908.421	3977.411	0.61
0.61	0.60			354	4435			13.032	.	.	.	5921.398	3976.217	0.60
0.60	0.59			346	5805			10.005	.	.	.	5934.145	3973.961	0.59
0.59	977 <sup>II</sup>			356	2901			5.154	.	.	.	5936.289	3973.636	977 <sup>II</sup>
977 <sup>II</sup>	3			69	5605			26.988	.	.	.	5938.690	3980.198	3
3	4	98.975		.	77.144			.	.	.	.	5965.200	4052.665	4
4	972 <sup>III</sup>			.	14.843			.	.	.	.	5970.301	4066.586	972 <sup>III</sup>
972 <sup>III</sup>	972 <sup>III</sup>			.	3.623			.	.	.	.	5971.566	4069.986	972 <sup>III</sup>
972 <sup>III</sup>	972 <sup>III</sup>			162	3720			3.623	.	.	.	5968.088	4071.068	972 <sup>III</sup>
972 <sup>III</sup>	976 <sup>IV</sup>			.	40.916			.	.	.	.	5929.060	4083.288	976 <sup>IV</sup>
976 <sup>IV</sup>	976 <sup>IV</sup>			.	3.455			.	.	.	.	5925.743	4086.320	976 <sup>IV</sup>

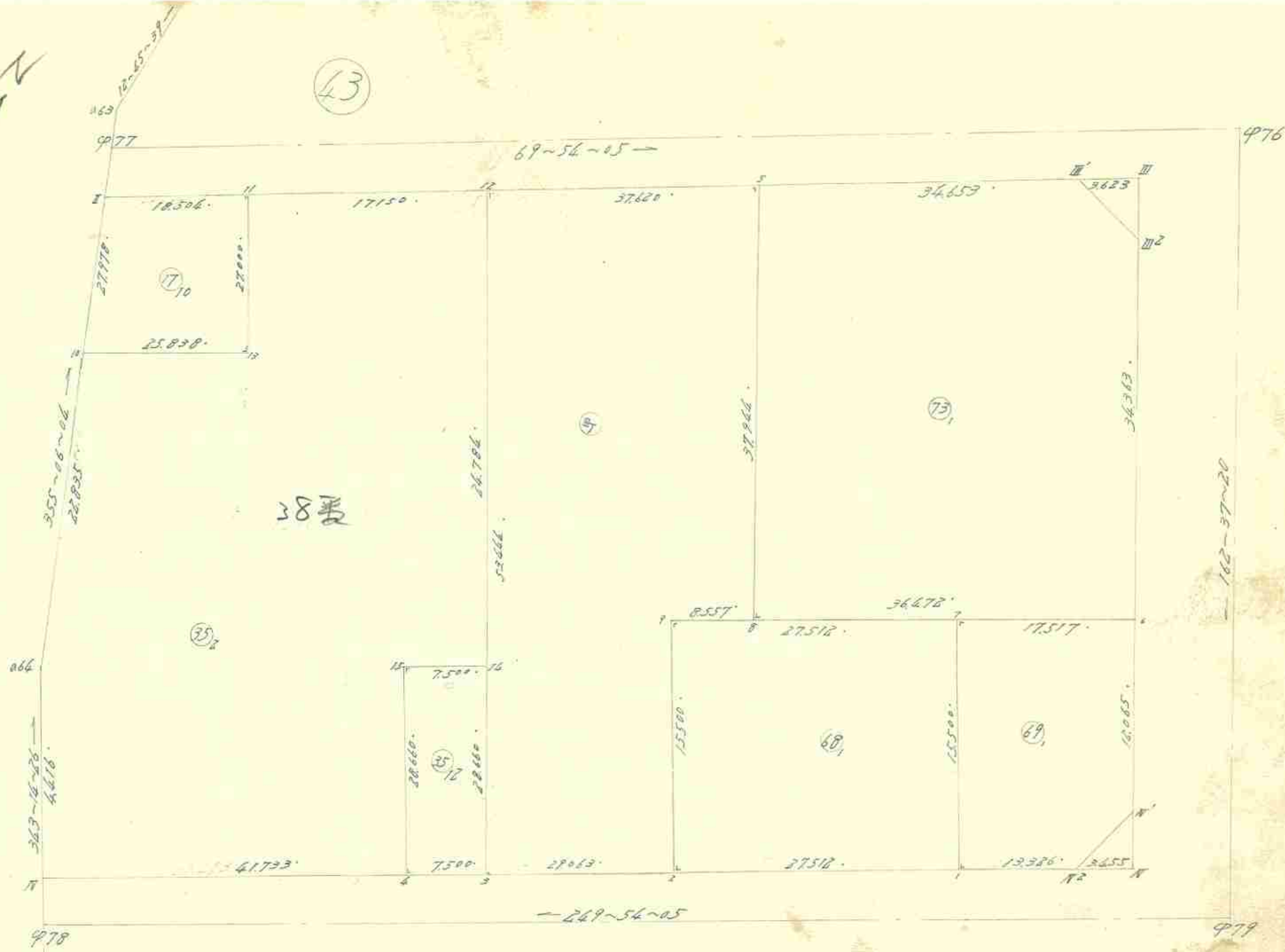
多角点計算用紙

測量No. \_\_\_\_\_



象	I	+	+	+
限	II	-	+	-
	III	-	-	-
	IV	+	-	-

測点	視点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	φ76 <sup>IV</sup>	° 1 "		° 1 "	.			.	.	.	.	5925.763	6086.320	φ76 <sup>IV</sup>
φ76 <sup>IV</sup>	1			249 54 05	18.466	343637	939103	.	6.346	.	17.341	5919.397	6066.979	1
	φ72 <sup>III</sup>				.			.	.	.	.	5971.566	6069.986	φ72 <sup>III</sup>
φ72 <sup>III</sup>	4			249 54 05	18.466	343637	939103	.	6.346	.	17.341	5965.200	6052.645	4
	φ77 <sup>I</sup>				.			.	.	.	.	5882.136	3981.540	φ77 <sup>I</sup>
φ77 <sup>I</sup>	2			69 54 05	16.113	343637	939103	5.537	.	15.132	.	5893.671	3996.672	2
	3			339 54 05	47.938	"	"	45.019	.	.	16.473	5938.690	3982.198	3
3	φ77 <sup>II</sup>			249 54 05	6.988			.	2.401	.	6.562	5936.189	3973.626	φ77 <sup>II</sup>





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
43 筆番号 69 <sub>1</sub>	479 <sup>40</sup>	5,867,760	-	+ 9,064	4,098,850	-	+ 14,727	997,902			895,976	
	1	5,863,180	-	⊖ 9,976	4,086,336	-	+ 17,940	1,127,131				861,298
	7	5,877,736	-	⊖ 20,579	4,081,010	-	⊖ 11,124		864,735			1,667,024
	6	5,883,758	-	+ 5,492	4,097,460	-	⊖ 20,053		1,677,599	535,250		
	479	5,872,244	-	+ 15,998	4,101,063	-	⊖ 1,390		1,001,419	1,616,806		

控除シタル値

X=於テ 5,800

y=於テ 4,000

$\Sigma = 2125 \quad 033 \quad 2644 \quad 753 \quad 7049 \quad 030 \quad 2528 \quad 312$

$2S = 519,720$

$519,720$

S = 259,860

78.61<sup>±</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 69 <sub>1</sub>	1	5,863,180	-	+ 24,010	4,086,336	-	+ 20,511	1295,925			2,076,927	
	3	5,853,726	-	⊖ 5,107	4,060,499	-	+ 71,163	1,674,263				308,666
	9	5,868,282	-	⊖ 24,010	4,055,173	-	⊖ 20,511		1,400,530			1324,704
	7	5,877,736	-	+ 5,107	4,081,010	-	⊖ 71,163		2,422,487	413,313		

控除シタル値

X=於テ 5,800

y=於テ 4,000

$\Sigma = 8970,149 \quad 3823,019 \quad 8496,240 \quad 1,633,370$

$2S = 852,871$

$852,870$

S = 426,435

129<sup>±</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
43	筆番号 6	5883.758	-	+45.330	4097.460	-	+23.987	2009.103			4417.862	
	8	5871.223	-	+23.099	4063.209	-	+47.290	3368.136				1460.065
	5	5906.857	-	+47.543	4050.170	-	+19.503		2084.232			2385.232
	476	5918.766	-	+9.696	4082.712	-	+37.026		4397.430			801.976
	476	5916.553	-	+35.008	4087.196	-	+14.748		1718.924	3052.558		
				-	-		-					

控除シタル値

X=於テ 5.800

y=於テ 4.000

$\Sigma = 5377.239 \quad 8200.386 \quad 7470.400 \quad 4647.273$

$\Sigma S = 2823.147$

$2823.147$

$S = 1411.574$

年 月 日

427.00 坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)			
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-		
47	筆番号 2	5853.726	-	+24.543	4060.499	-	+21.967	1180.199			1486.827		
	3	5843.739	-	+40.203	4033.206	-	+45.659	1997.079				1334.981	
	12	5893.929	-	+63.118	4014.840	-	+16.964		1593.412			936.871	
	15	5906.857	-	+22.706	4050.170	-	+48.369		5168.566	1139.160			
	8	5871.223	-	+38.575	4063.209	-	+45.063		356.329	2438.287			
	9	5868.282	-	+17.497	4055.173	-	+2.710	185.044		2965.362			
				-	-		-						
				-	-		-						

控除シタル値

X=於テ 5.800

y=於テ 4.000

$\Sigma = 3362.322 \quad 7118.307 \quad 4027.636 \quad 2271.658$

$\Sigma S = 3755.985$

$3755.984$

$S = 1877.992$

年 月 日

568.09 坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
43											
筆番号	12	5,862'680	-	<sup>+</sup> 34'235	4,008'018	-	<sup>+</sup> 14'986	190'022		958'991	
	10	5,853'801	-	<sup>0</sup> 18'997	3,983'748	-	<sup>+</sup> 26'654	101'312			71'206
①10	977 <sup>2</sup>	5,881'677	-	<sup>9</sup> 34'235	3,981'358	-	<sup>0</sup> 14'986		474'718		46'491
	11	5,888'036	-	<sup>+</sup> 18'997	3,998'734	-	<sup>0</sup> 26'654		1013'818	355'890	

控除シタル値  
 X = 於テ 5,950  
 y = 於テ 3,980

$$\bar{x} = \frac{2,913,334}{25} = 116,533.36$$

$$\bar{y} = \frac{1,488,526}{25} = 59,541.04$$

$$s = \frac{598,595}{25} = 23,943.8$$

18.07.7 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号											

控除シタル値  
 X = 於テ  
 y = 於テ

$$\bar{x} =$$

$$s =$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
43	4	5,841.162	-	+ 41.256	4,026.163	-	+ 29.343	620.957		1,904.501	
筆番号	978	5,826.821	-	+ 10.112	3,986.971	-	+ 40.465	276.013		70.491	
35	064	5,831.050	-	0 26.980	3,985.698	-	+ 3.223	35.614			153.732
	10	5,853.801	-	0 31.630	3,983.748	-	0 22.314		754.236		118.549
	13	5,862.680	-	0 34.235	4,008.012	-	0 14.986		639.602		958.991
	11	5,888.036	-	0 31.249	3,998.734	-	0 6.828		466.550		585.419
	12	5,893.929	-	+ 17.382	4,014.860	-	0 24.623		1,820.354	605.589	
	14	5,870.654	-	+ 25.852	4,023.357	-	0 1.474		74.664	1,120.865	
	15	5,868.077	-	+ 29.492	4,016.314	-	0 2.806		134.906	1,070.978	

控除シタル値

X = 於テ 5,820

y = 於テ 3,980

$$\bar{x} = \frac{932.583}{25} = 37.30332$$

$$2S = \frac{2,955.727}{25} = 118.23008$$

$$S = \frac{1477.863}{25} = 59.11452$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
43	3	5,843.739	-	+ 29.492	4,033.206	-	0 2.806		10.492	684.391	
筆番号	4	5,841.162	-	0 24.338	4,026.163	-	+ 16.892	19.629			393.375
35	15	5,868.077	-	0 29.492	4,016.314	-	+ 2.806	78.784			186.212
	14	5,870.654	-	+ 24.338	4,023.357	-	0 16.892		517.807	325.083	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5,860

y = 於テ 4,010

$$\bar{x} = \frac{98.413}{25} = 3.93652$$

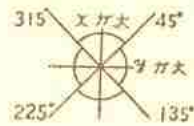
$$2S = \frac{429.886}{25} = 17.19544$$

$$S = \frac{214.943}{25} = 8.59772$$

年 月 日

多角点計算用紙

測量No.

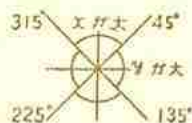


象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	979 <sup>N</sup>											5868.947	4102.095	979 <sup>N</sup>
979 <sup>N</sup>	979 <sup>N2</sup>			249 54.05	3.455							5867.760	4098.850	979 <sup>N2</sup>
979 <sup>N2</sup>	1			"	13.326							5863.180	4086.336	1
1	2			"	27.512							5853.726	4060.499	2
2	3	119.134		"	29.063							5843.739	4033.206	3
3	4			"	27.500							5841.162	4026.163	4
4	978 <sup>N</sup>			353 14.26	41.733							5826.821	3986.971	978 <sup>N</sup>
978 <sup>N</sup>	a64			343 14.26	4.416							5831.050	3985.698	a64
a64	10	50.813		355 06.04	22.835							5853.801	3983.748	10
10	977 <sup>N</sup>			"	27.978							5881.677	3981.358	977 <sup>N</sup>
977 <sup>N</sup>	11			69 54.05	78.504							5888.036	3998.736	11
11	12	107.927		"	17.150							5893.929	4014.840	12
12	5			162 37.20	37.620							5906.857	4050.170	5
5	976 <sup>N</sup>			"	34.653							5912.766	4022.712	976 <sup>N</sup>
976 <sup>N</sup>	976 <sup>N2</sup>			"	3.623							5920.011	4086.114	976 <sup>N2</sup>
976 <sup>N2</sup>	976 <sup>N3</sup>			162 37.20	3.623							5916.553	4087.196	976 <sup>N3</sup>
976 <sup>N3</sup>	6	46.428		"	34.363							5883.758	4097.460	6
6	979 <sup>N</sup>			"	12.065							5872.244	4101.063	979 <sup>N</sup>
979 <sup>N</sup>	979 <sup>N</sup>			"	3.455							5868.947	4102.095	979 <sup>N</sup>

多角点計算用紙

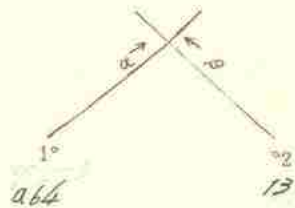
測量No. \_\_\_\_\_



象	I	+	+	+
限	II	-	-	-
	III	-	+	-
	IV	+	-	+

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	479 <sup>P</sup>											5868.947	4102.095	479 <sup>P</sup>
479 <sup>P</sup>	2			249 54 05	44.293	343637	939103		15.221		41.596	5853.726	4060.499	2
2	9			339 54 05	15.500	"	"	14.556			5.326	5868.282	4055.173	9
9	7			69 54 05	27.512	"	"	9.654		25.837		5877.736	4081.010	7
7	1			159 54 05	15.500	"	"		14.556	5.326		5863.180	4086.336	1
	9											5868.282	4055.173	9
9	8			69 54 05	8.559	343637	939103	2.941		8.036		5871.223	4063.209	8
	2											5853.726	4060.499	2
2	3			249 54 05	29.063	343637	939103		9.987		27.293	5843.739	4033.206	3
3	4			"	7.500	"	"		2.577		7.043	5841.162	4026.163	4
4	15			339 54 05	28.660	"	"	26.915			9.049	5868.077	4016.314	15
15	14			69 54 05	7.500	"	"		2.577	7.043		5870.654	4023.357	14
14	12			339 54 05	24.784	"	"	23.275			8.517	5893.929	4014.840	12
12	11			249 54 05	17.150	"	"		5.893		16.106	5888.036	3998.734	11
11	13			159 54 05	27.000	"	"		25.356	9.278		5862.680	4008.012	13
	479 <sup>F</sup>			249 54 05	12.504	"	"		6.359		17.377	5881.677	3991.359	479 <sup>F</sup>

算出点	10
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$$\begin{aligned} X_2 &= -58681.0680 \\ X_1 &= -58311.0550 \\ \Delta X &= -1170.0130 \end{aligned}$$

$$\alpha = 135^\circ - 66' - 64''$$

$$\beta = 249^\circ - 54' - 65''$$

$$\beta - \alpha = 174^\circ - 48' - 61''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0 \quad | \quad 170.66792 \\ \Delta X \times \textcircled{4} &= 0 \quad | \quad 189.70383 \\ E &= 170.66792 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 170.66792$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + \quad | \quad 170.66792 \\ X_1 &= -58311.0550 \\ X &= -58223.8501 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0 \quad | \quad 170.66792 \\ Y_1 &= -58311.0550 \\ Y &= -58311.0550 \end{aligned}$$

$$\begin{aligned} Y_2 &= -40108.1012 \\ Y_1 &= -39851.6988 \\ \Delta Y &= +1156.5024 \end{aligned}$$

$$\text{Cos} \alpha = + \quad | \quad 0.99661327 \quad \textcircled{1}$$

$$\text{Sin} \alpha = 0 \quad | \quad 0.10855198 \quad \textcircled{2}$$

$$\text{Cos} \beta = 0 \quad | \quad 0.3443637 \quad \textcircled{3}$$

$$\text{Sin} \beta = 0 \quad | \quad 0.97911031 \quad \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = - \quad | \quad 0.965101181 \quad \textcircled{5}$$

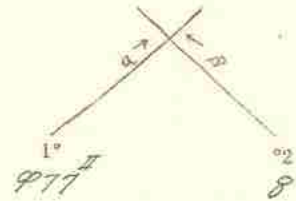
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + \quad | \quad 22.03949 \\ \Delta X \times \textcircled{2} &= 0 \quad | \quad 18.70114 \\ F &= 22.03949 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 22.518375$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0 \quad | \quad 118.8779 \\ X_2 &= -58681.0680 \\ X &= -58223.8501 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \quad | \quad 240.2664 \\ Y_2 &= -40108.1012 \\ Y &= -39851.6988 \end{aligned}$$

算出点	5
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$$\begin{aligned} X_2 &= -58711.0223 \\ X_1 &= -58811.0677 \\ \Delta X &= -1111.0454 \end{aligned}$$

$$\alpha = 169^\circ - 56' - 25''$$

$$\beta = 178^\circ - 54' - 25''$$

$$\beta - \alpha = 170^\circ - 02' - 00''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + \quad | \quad 176.86652 \\ \Delta X \times \textcircled{4} &= + \quad | \quad 1171.51238 \\ E &= 176.86652 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 176.86652$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + \quad | \quad 176.86652 \\ X_1 &= -58811.0677 \\ X &= -59016.1857 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + \quad | \quad 168.8128 \\ Y_1 &= -39851.6988 \\ Y &= -40550.1170 \end{aligned}$$

$$\begin{aligned} Y_2 &= -40163.0219 \\ Y_1 &= -39851.6988 \\ \Delta Y &= +1181.3231 \end{aligned}$$

$$\text{Cos} \alpha = + \quad | \quad 0.3443637 \quad \textcircled{1}$$

$$\text{Sin} \alpha = 7 \quad | \quad 0.9341911 \quad \textcircled{2}$$

$$\text{Cos} \beta = 7 \quad | \quad 0.3443637 \quad \textcircled{3}$$

$$\text{Sin} \beta = 0 \quad | \quad 0.9341911 \quad \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = - \quad | \quad 0.1111111 \quad \textcircled{5}$$

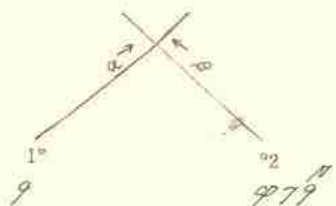
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + \quad | \quad 129.12703 \\ \Delta X \times \textcircled{2} &= 0 \quad | \quad 191.81738 \\ F &= 129.12703 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 131.19444$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + \quad | \quad 131.19444 \\ X_2 &= -58711.0223 \\ X &= -59016.1857 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \quad | \quad 1171.51238 \\ Y_2 &= -40163.0219 \\ Y &= -40550.1170 \end{aligned}$$

算出點	6
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$$\begin{aligned} X_2 &= -518618.19417 \\ X_1 &= -518618.17822 \\ \Delta X &= -111.01662 \end{aligned}$$

$$\alpha = 169^\circ - 56' - 05''$$

$$\beta = 362^\circ - 37' - 20''$$

$$\beta - \alpha = 272^\circ - 43' - 15''$$

$$\begin{aligned} \Delta Y \times ③ &= +1424.178029 \\ \Delta X \times ④ &= -1111.197722 \\ E &= 1424.197801 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 1424.1061818$$

$$\begin{aligned} S_1 \times ① &= +1111.14174 \\ X_1 &= -518618.17822 \\ X &= -518618.17558 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= +1424.12187 \\ Y_1 &= -410555.11713 \\ Y &= -410571.14610 \end{aligned}$$

$$\begin{aligned} Y_2 &= -411062.10195 \\ Y_1 &= -410555.11713 \\ \Delta Y &= -111661.928 \end{aligned}$$

$$\text{Cos} \alpha = +.134316197 \quad ①$$

$$\text{Sin} \alpha = +.193911013 \quad ②$$

$$\text{Cos} \beta = +.195413561 \quad ③$$

$$\text{sin} \beta = -.179861711 \quad ④$$

$$\text{Sin}(\beta - \alpha) = -.19188873 \quad ⑤$$

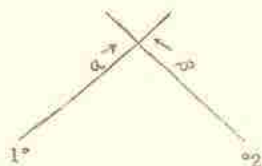
$$\begin{aligned} \Delta Y \times ① &= +1176.112014 \\ \Delta X \times ② &= +1111.62169 \\ F &= 1176.150865 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 1176.151918$$

$$\begin{aligned} S_2 \times ③ &= +1111.18112 \\ X_2 &= -518618.19417 \\ X &= -518618.17558 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= -1111.16135 \\ Y_2 &= -411062.10195 \\ Y &= -410571.14610 \end{aligned}$$

算出點	
-----	--



$$\begin{aligned} X_2 &= - \\ X_1 &= - \\ \Delta X &= - \end{aligned}$$

$$\alpha = -$$

$$\beta = -$$

$$\beta - \alpha = -$$

$$\begin{aligned} \Delta Y \times ③ &= - \\ \Delta X \times ④ &= - \\ E &= \end{aligned}$$

$$S_1 = \frac{E}{⑤} = -$$

$$\begin{aligned} S_1 \times ① &= - \\ X_1 &= - \\ X &= - \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= - \\ Y_1 &= - \\ Y &= - \end{aligned}$$

$$\begin{aligned} Y_2 &= - \\ Y_1 &= - \\ \Delta Y &= - \end{aligned}$$

$$\text{Cos} \alpha = -$$

$$\text{Sin} \alpha = -$$

$$\text{Cos} \beta = -$$

$$\text{sin} \beta = -$$

$$\text{Sin}(\beta - \alpha) = -$$

$$\begin{aligned} \Delta Y \times ① &= - \\ \Delta X \times ② &= - \\ F &= \end{aligned}$$

$$S_2 = \frac{F}{⑤} = -$$

$$\begin{aligned} S_2 \times ③ &= - \\ X_2 &= - \\ X &= - \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= - \\ Y_2 &= - \\ Y &= - \end{aligned}$$

44

976

975

71~34~43

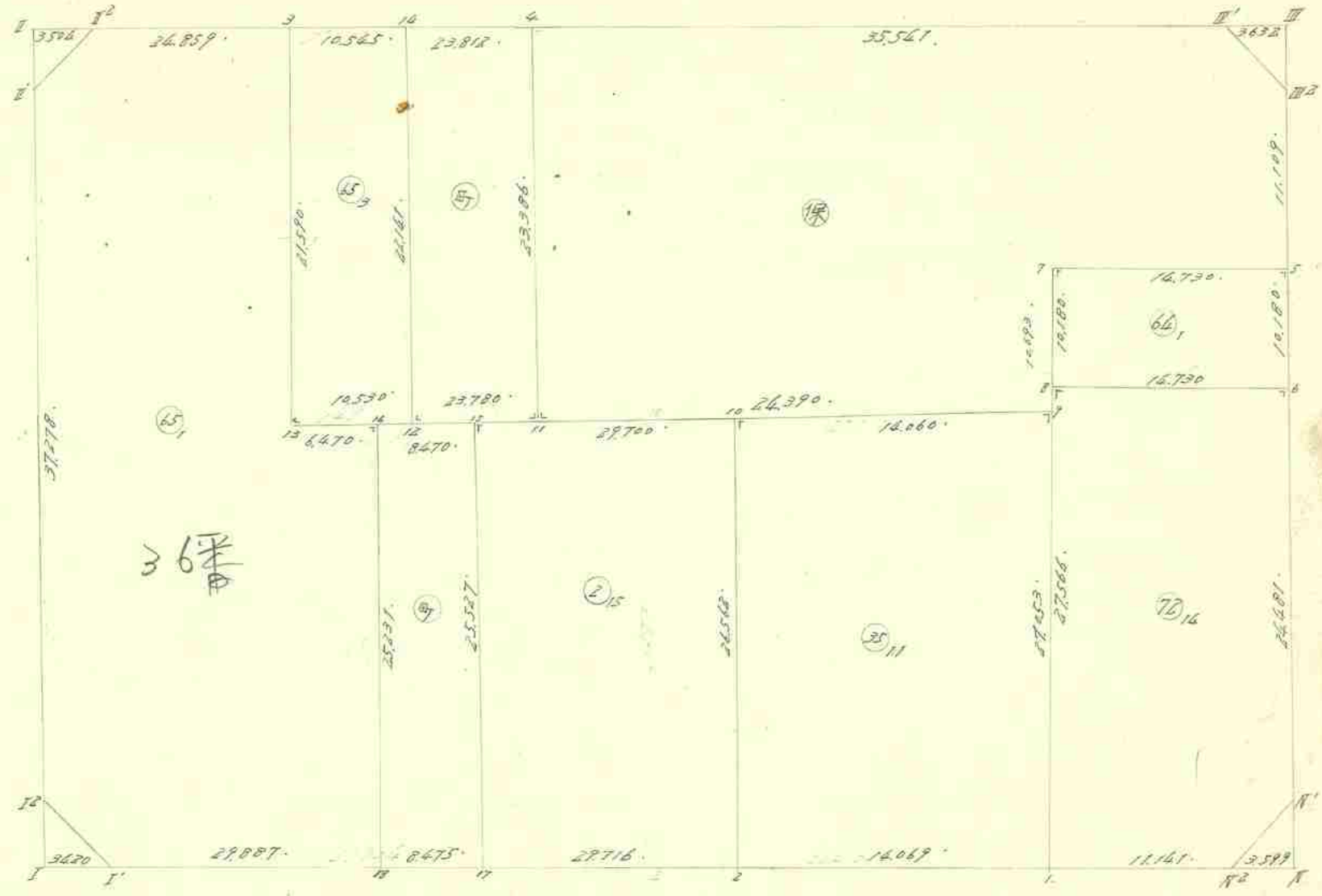
362~37~20

184~34~31

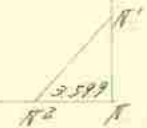
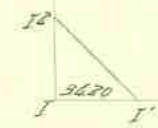
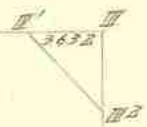
980

981

256~34~25



36米





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
44 筆番号 153	12	5,916.245	-	+ 24.144	4,144.028	-	+ 4.262	26,816		580.132	
	13	5,913.444	-	+ 18.011	4,133.877	-	+ 15.893	54,735			249,939
	3	5,934.256	-	+ 24.144	4,128.135	-	+ 4.262		103,379		196,411
	14	5,937.588	-	+ 18.011	4,138.139	-	+ 15.893		438,456	326,702	

控除シタル値

X = 於テ 5,910

y = 於テ 4,120

$$\bar{z} = \frac{81,351}{460,484} \quad \frac{541,835}{460,484} \quad \frac{906,834}{460,484} \quad \frac{446,350}{460,484}$$

$$2S = \frac{460,484}{2} = 230,242$$

$$S = 230,242$$

69.65<sup>27</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
44 筆番号 151	18	5,890.843	-	+ 31.262	4,146.825	-	+ 22.359	242,439		1463,843	
	980 <sup>2</sup>	5,883.903	-	+ 4.470	4,117.755	-	+ 33.418	130,430		79,365	
	980 <sup>2</sup>	5,886.373	-	+ 38.046	4,113.407	-	+ 15.483	98,673			510,083
	976 <sup>2</sup>	5,921.949	-	+ 40.027	4,102.272	-	+ 8.858	371,584			90,941
	976 <sup>2</sup>	5,926.400	-	+ 12.907	4,104.549	-	+ 25.863		1700,043		55,985
	3	5,934.256	-	+ 12.956	4,128.135	-	+ 29.328		1,591,220	364,517	
	13	5,913.444	-	+ 19.091	4,133.877	-	+ 11.979		400,626	646,746	
	16	5,915.165	-	+ 22.601	4,140.114	-	+ 12.948		455,316	906,617	

控除シタル値

X = 於テ 5,880

y = 於テ 4,100

$$\bar{z} = \frac{843,126}{2,804,079} \quad \frac{3,667,205}{2,804,079} \quad \frac{3,461,088}{2,804,079} \quad \frac{657,009}{2,804,079}$$

$$2S = \frac{2,804,079}{2} = 1,402,039$$

$$S = 1,402,039$$

42.412<sup>27</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
44 筆番号 ⑦	11	5,922.569	-	+28.868	4,166.951	-	+16.703	376.970		1,266.701	
	12	5,916.245	-	+15.019	4,144.028	-	+28.812	468.051			210.687
	14	5,937.588	-	+28.868	4,138.139	-	+16.703		627.832		234.957
	4	5,945.113	-	+15.019	4,160.731	-	+28.812		1,299.796	461.549	
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				

控除シクル値

X = 於テ 5,900

y = 於テ 4,130

$$\Sigma = \frac{845.021}{1,927.628} \quad \frac{1,528.250}{445.644}$$

$$2S = \frac{1,082.607}{1,082.606}$$

$$S = \frac{541.303}{163.747} \quad \text{年 月 日}$$

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
44 筆番号 ⑧	17	5,892.811	-	+26.575	4,155.068	-	+1.454	4.087		400.432	
	18	5,890.843	-	+22.354	4,146.825	-	+14.954	12.606			152.566
	16	5,915.165	-	+26.575	4,140.114	-	+1.454		36.590		310.30
	15	5,917.418	-	+22.354	4,148.279	-	+14.954		410.009	185.069	
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				

控除シクル値

X = 於テ 5,890

y = 於テ 4,140

$$\Sigma = \frac{16.692}{446.599} \quad \frac{585.501}{155.596}$$

$$2S = \frac{429.906}{429.905}$$

$$S = \frac{214.953}{65.027} \quad \text{年 月 日}$$

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
44 筆番号 ② <sub>11</sub>	1	5,902.978	-	+ 29.345	4,197.657	-	+ 6.489	84.214		811.595	
	2	5,899.711	-	⊖ 22.338	4,183.973	-	+ 20.749	201.494			312.129
	10	5,925.316	-	+ 29.345	4,176.908	-	⊖ 6.489		229.166		202.715
	9	5,929.056	-	⊖ 22.338	4,190.462	-	+ 20.749		810.373	457.080	

控除シタル値

X = 於テ 5,890

y = 於テ 4,170

$$\Sigma = \frac{2,857.08}{25} = \frac{103,883.2}{25} = \frac{1268.675}{25} = \frac{514.866}{25}$$

$$\Sigma S = \frac{753.831}{25} = \frac{753.831}{25}$$

$$S = \frac{376.915}{25} = \frac{116.027}{25}$$

印

年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
44 筆番号 ② <sub>15</sub>	2	5,899.711	-	+ 32.505	4,183.973	-	+ 21.840	212.088		1429.342	
	17	5,892.811	-	⊖ 17.707	4,155.068	-	+ 35.694	100.336			266.809
	15	5,917.418	-	+ 32.505	4,148.279	-	⊖ 21.840		598.809		269.109
	10	5,925.316	-	⊖ 17.707	4,176.908	-	+ 35.694		1260.569	653.530	

控除シタル値

X = 於テ 5,890

y = 於テ 4,140

$$\Sigma = \frac{312.434}{25} = \frac{1,859.378}{25} = \frac{2082.872}{25} = \frac{535.918}{25}$$

$$\Sigma S = \frac{1546.954}{25} = \frac{1546.954}{25}$$

$$S = \frac{773.477}{25} = \frac{233.987}{25}$$

印

年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
44 筆番号 ④	6	5,933.469	-	+ 13.731	4,204.525	-	+ 11.491	384.592		336.753	
	8	5,929.551	-	0 5.895	4,190.326	-	+ 16.907	499.619			60.872
	7	5,939.364	-	0 13.731	4,187.618	-	0 11.491		452.332		104.603
	5	5,943.282	-	+ 5.895	4,201.817	-	0 16.907		731.769	128.611	

控除シタル値

X = 於テ 5,900

y = 於テ 4,180

$\bar{x} = \frac{884.211}{25} = 35.3684$

$\bar{y} = \frac{1,184.101}{25} = 47.3640$

$S = 149.945$

45.3684 年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
44 筆番号 ④ <sub>14</sub>	981 <sup>2</sup>	5,905.564	-	+ 6.891	4,208.493	-	+ 13.380	74.446		127.435	
	1	5,902.978	-	0 23.987	4,197.657	-	+ 18.167	54.701			183.668
	8	5,929.551	-	0 30.491	4,190.326	-	0 6.868		202.956		9.960
	6	5,933.469	-	+ 19.682	4,204.525	-	0 20.711		693.176	285.881	
	981 <sup>4</sup>	5,909.869	-	+ 27.905	4,211.037	-	0 3.968		39.160	587.037	

控除シタル値

X = 於テ 5,900

y = 於テ 4,190

$\bar{x} = \frac{1,228.547}{25} = 49.1419$

$\bar{y} = \frac{935.292}{25} = 37.4117$

$S = 402.373$

122.027 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
44	筆番号	11	5,922.569	-	+ 39.020	4,166.951	-	+ 53.496	1,207.351	,	2,612.428	,
		3	5,906.093	-	+ .620	4,107.235	-	+ 64.679	394.089	,	4.486	,
	②13	976 <sup>II</sup>	5,921.949	-	0 20.307	4,102.272	-	+ 2.686	58.955	,	,	46.138
		976 <sup>II</sup>	5,926.400	-	0 23.164	4,104.549	-	0 58.459	,	1,543.318	,	105.373
		4	5,945.113	-	0 3.831	4,160.731	-	0 62.402	,	2,815.161	232.660	,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,

控除シタル値

X=於テ 5,900

Y=於テ 4,100

$$\bar{x} = \frac{1,660,395}{25} = 66,415.8$$

$$2s = \frac{2,698,064}{25} = 107,922.56$$

$$s = \frac{2,698,063}{25} = 107,922.52$$

$$S = 1,349,032$$

$$408.08^{27}$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
44	筆番号	9	5,929.056	-	+ 16.795	4,190.462	-	+ 20.667	600.500	,	679.559	,
		11	5,922.569	-	0 16.057	4,166.951	-	+ 29.731	670.999	,	,	272.182
	②	4	5,945.113	-	0 33.775	4,160.731	-	0 27.500	,	1,240.608	,	362.440
		975 <sup>II</sup>	5,956.344	-	0 8.878	4,194.451	-	0 38.132	,	2,148.509	,	394.636
		975 <sup>II</sup>	5,953.991	-	+ 13.062	4,198.863	-	0 7.366	,	397.698	638.249	,
		5	5,943.282	-	+ 14.627	4,201.817	-	+ 11.245	486.706	,	757.927	,
		7	5,939.364	-	+ 14.226	4,187.618	-	+ 11.355	446.978	,	535.154	,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,
				-			-		,			,

控除シタル値

X=於テ 5,900

Y=於テ 4,150

$$\bar{x} = \frac{2,205,183}{25} = 88,207.32$$

$$2s = \frac{1,581,632}{25} = 63,265.28$$

$$s = \frac{1,581,631}{25} = 63,265.24$$

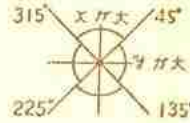
$$S = 790,816$$

$$239.22^{27}$$

年 月 日

多角点計算用紙

測量No.

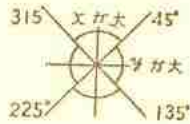


象	I	+	+	+
限	II	-	+	-
	III	-	-	-
	IV	+	-	+

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	981 <sup>↑</sup>											5906.400	4211.996	981 <sup>↑</sup>
981 <sup>↑</sup>	981 <sup>↑</sup>			256 34 25	3.599							5905.564	4208.493	981 <sup>↑</sup>
981 <sup>↑</sup>	1			"	11.141							5902.978	4197.657	1
1	2			"	14.069							5899.711	4183.973	2
2	17	93.288		"	29.716							5892.811	4155.068	17
17	18			"	8.475							5890.843	4146.825	18
18	980 <sup>↑</sup>			"	29.887							5883.903	4117.755	980 <sup>↑</sup>
980 <sup>↑</sup>	980 <sup>↑</sup>			"	3.470							5883.109	4114.428	980 <sup>↑</sup>
980 <sup>↑</sup>	980 <sup>↑</sup>			342 37 20	3.470							5886.373	4113.407	980 <sup>↑</sup>
980 <sup>↑</sup>	976 <sup>↑</sup>			"	37.278							5921.949	4102.272	976 <sup>↑</sup>
976 <sup>↑</sup>	976 <sup>↑</sup>			"	3.504							5925.293	4101.225	976 <sup>↑</sup>
976 <sup>↑</sup>	976 <sup>↑</sup>			71 34 43	3.504							5926.400	4106.549	976 <sup>↑</sup>
976 <sup>↑</sup>	3			"	24.859							5934.256	4128.135	3
3	14	94.757		"	10.545							5937.588	4138.139	14
14	4			"	23.812							5945.113	4160.731	4
4	975 <sup>↑</sup>			"	35.541							5956.344	4194.451	975 <sup>↑</sup>
975 <sup>↑</sup>	975 <sup>↑</sup>			"	3.632							5957.492	4197.897	975 <sup>↑</sup>
975 <sup>↑</sup>	975 <sup>↑</sup>			164 34 31	3.632							5953.991	4192.863	975 <sup>↑</sup>
975 <sup>↑</sup>	5			"	11.109							5943.282	4201.817	5
5	6	45.770		"	10.180							5933.469	4204.525	6
6	981 <sup>↑</sup>			"	24.481							5909.869	4211.037	981 <sup>↑</sup>
981 <sup>↑</sup>	981 <sup>↑</sup>			"	3.599							5906.400	4211.996	981 <sup>↑</sup>

多角点計算用紙

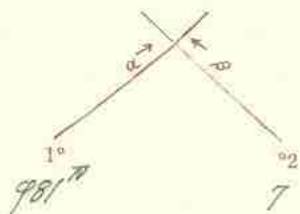
測量No. \_\_\_\_\_



象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点	
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y		
	981 <sup>W</sup>	° 1 "		° 1 "	.			.	.	.	.	5906.400	4211.994	981 <sup>W</sup>	
981 <sup>W</sup>	6			344 34 31	28.080	265977	963979	27.069	.	.	.	7.469	5933.469	4204.525	6
6	5			"	10.180	"	"	9.813	.	.	.	2.708	5943.282	4201.817	5
5	7			254 34 31	14.730	"	"	.	3.918	.	.	14.199	5939.364	4187.618	7
7	8			164 34 31	10.180	"	"	.	9.813	2.708	.	.	5929.551	4190.326	8
8	9			"	.513	"	"	.	.495	.136	.	.	5929.056	4190.462	9
9	10			254 34 31	14.060	"	"	.	3.740	.	.	13.554	5925.316	4176.908	10
10	11		26.3900	"	10.330	"	"	.	"	.	.	"	"	"	"
11	15		29.700	"	19.370	"	"	.	2.748	.	.	2.958	5926.569	4166.951	11
15	12		23.780	"	4.470	"	"	.	5.152	.	.	18.672	5917.418	4148.879	15
12	16		8.470	"	4.060	"	"	.	1.173	.	.	4.251	5916.365	4164.028	12
16	13		14.530	"	6.470	"	"	.	1.080	.	.	3.914	5915.165	4140.114	16
				"	.	"	"	.	1.781	.	.	6.237	5913.444	4138.877	13

算出点 1



$$\begin{aligned} 7 X_2 &= -599991.364 \\ 981 X_1 &= -59061.400 \\ \Delta X &= -119900.764 \end{aligned}$$

$$\alpha = 256^\circ - 34' - 25''$$

$$\beta = 164^\circ - 34' - 31''$$

$$\beta - \alpha = 108^\circ - 00' - 06''$$

$$\begin{aligned} Y_2 &= -4187.618 \\ Y_1 &= -42111.996 \\ \Delta Y &= -4184.376 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= 9.12321961 \quad \textcircled{1} \\ \text{Sin } \alpha &= 9.19726619 \quad \textcircled{2} \\ \text{Cos } \beta &= 9.19639811 \quad \textcircled{3} \\ \text{Sin } \beta &= +.12659721 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.19993921 \quad \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +123.49800 \\ \Delta X \times \textcircled{4} &= +118.76750 \\ E &= 114.73050 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 114.73995$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 9.1131422 \\ X_1 &= -59061.400 \\ X &= -59061.978 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9.1171317 \\ Y_1 &= -42111.996 \\ Y &= -41971.657 \end{aligned}$$

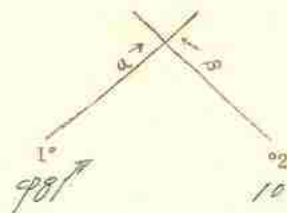
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +115.66001 \\ \Delta X \times \textcircled{2} &= 9.132.06906 \\ F &= 137.72307 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 137.74610$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9.1131422 \\ X_2 &= -599991.364 \\ X &= -599991.978 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= +.1171317 \\ Y_2 &= -4187.618 \\ Y &= -41971.657 \end{aligned}$$

算出点 2



$$\begin{aligned} 10 X_2 &= -59215.316 \\ 981 X_1 &= -59061.400 \\ \Delta X &= -1178.916 \end{aligned}$$

$$\alpha = 256^\circ - 34' - 25''$$

$$\beta = 164^\circ - 34' - 31''$$

$$\beta - \alpha = 108^\circ - 00' - 06''$$

$$\begin{aligned} Y_2 &= -41761.908 \\ Y_1 &= -42111.996 \\ \Delta Y &= -2135.086 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= 9.12321961 \quad \textcircled{1} \\ \text{Sin } \alpha &= 9.19726619 \quad \textcircled{2} \\ \text{Cos } \beta &= 9.19639811 \quad \textcircled{3} \\ \text{Sin } \beta &= +.12659721 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.19993921 \quad \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +133.82224 \\ \Delta X \times \textcircled{4} &= +115.83113 \\ E &= 128.79111 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 128.8086$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 9.1161889 \\ X_1 &= -59061.400 \\ X &= -5899.711 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9.1171317 \\ Y_1 &= -42111.996 \\ Y &= -41971.973 \end{aligned}$$

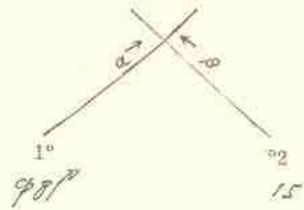
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +118.74688 \\ \Delta X \times \textcircled{2} &= 9.148.39901 \\ F &= 146.54584 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 128.15620$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9.1131422 \\ X_2 &= -599991.364 \\ X &= -5899.171 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= +.1171317 \\ Y_2 &= -4187.618 \\ Y &= -41971.973 \end{aligned}$$

算出點 17



$$\begin{aligned} 15 \quad X_2 &= -5917171.478 \\ 981^\circ \quad X_1 &= -591561.455 \\ \Delta X &= -11111.023 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4148.279 \\ Y_1 &= -4211.096 \\ \Delta Y &= -0163.817 \end{aligned}$$

$$\alpha = 226^\circ - 34^\circ - 31''$$

$$\cos \alpha = 9.111111111 \quad \text{①}$$

$$\beta = 164^\circ - 32^\circ - 31''$$

$$\sin \alpha = 9.111111111 \quad \text{②}$$

$$\cos \beta = 9.111111111 \quad \text{③}$$

$$\sin \beta = +.111111111 \quad \text{④}$$

$$\sin(\beta - \alpha) = -.111111111 \quad \text{⑤}$$

$$\Delta Y \times \text{③} = +1111.023$$

$$\Delta Y \times \text{①} = +1111.023$$

$$\Delta X \times \text{④} = +1111.023$$

$$\Delta X \times \text{②} = 9.111111111$$

$$E = 1111.023$$

$$F = 1111.023$$

$$S_1 = \frac{E}{\text{⑤}} = 1111.023$$

$$S_2 = \frac{F}{\text{⑤}} = 1111.023$$

$$S_1 \times \text{①} = 9.111111111$$

$$S_2 \times \text{③} = 9.111111111$$

$$X_1 = -591561.455$$

$$X_2 = -5917171.478$$

$$X = -5916366.466$$

$$X = -5916366.466$$

$$S_1 \times \text{②} = 9.111111111$$

$$S_2 \times \text{④} = +.111111111$$

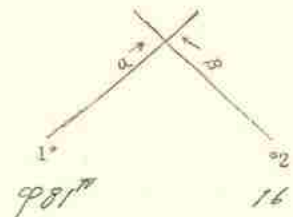
$$Y_1 = -4211.096$$

$$Y_2 = -4148.279$$

$$Y = -4179.687$$

$$Y = -4179.687$$

算出點 18



$$\begin{aligned} 16 \quad X_2 &= -591715.115 \\ 981^\circ \quad X_1 &= -591561.455 \\ \Delta X &= -1111.660 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4148.279 \\ Y_1 &= -4211.096 \\ \Delta Y &= -0163.817 \end{aligned}$$

$$\alpha = 111^\circ - 11' - 11''$$

$$\cos \alpha = -.111111111 \quad \text{①}$$

$$\beta = 111^\circ - 11' - 11''$$

$$\sin \alpha = -.111111111 \quad \text{②}$$

$$\beta - \alpha = 0^\circ - 0' - 0''$$

$$\cos \beta = -.111111111 \quad \text{③}$$

$$\sin \beta = -.111111111 \quad \text{④}$$

$$\sin(\beta - \alpha) = 0 \quad \text{⑤}$$

$$\Delta Y \times \text{③} = +1111.660$$

$$\Delta X \times \text{④} = +1111.660$$

$$E = 1111.660$$

$$\Delta Y \times \text{①} = +1111.660$$

$$\Delta X \times \text{②} = 9.111111111$$

$$F = 1111.660$$

$$S_1 = \frac{E}{\text{⑤}} = 1111.660$$

$$S_2 = \frac{F}{\text{⑤}} = 1111.660$$

$$S_1 \times \text{①} = 9.111111111$$

$$S_2 \times \text{③} = 9.111111111$$

$$X_1 = -591561.455$$

$$X_2 = -591715.115$$

$$X = -5916388.285$$

$$X = -5916388.285$$

$$S_1 \times \text{②} = 9.111111111$$

$$S_2 \times \text{④} = +.111111111$$

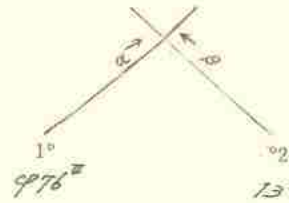
$$Y_1 = -4211.096$$

$$Y_2 = -4148.279$$

$$Y = -4179.687$$

$$Y = -4179.687$$

算出点	3
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$$\begin{aligned} X_2 &= - \frac{72}{976} \times 1000000 \cdot 444 \\ X_1 &= - \frac{976}{976} \times 1000000 \cdot 293 \\ \Delta X &= - 0 \cdot 1111 \cdot 849 \end{aligned}$$

$$\begin{aligned} \alpha &= 171^\circ - 34' - 43'' \\ \beta &= 134^\circ - 34' - 37'' \\ \beta - \alpha &= 272^\circ - 59' - 48'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + 1111 \cdot 47591 \\ \Delta X \times \textcircled{4} &= + 1111 \cdot 15190 \\ E &= 1111 \cdot 22441 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 1111 \cdot 22441$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 1111 \cdot 1963 \\ X_1 &= - \frac{1111 \cdot 1963}{1111} \\ X &= - 1963 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 1111 \cdot 1910 \\ Y_1 &= - \frac{1111 \cdot 1910}{1111} \\ Y &= - 1910 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 41011 \cdot 877 \\ Y_1 &= - 41011 \cdot 285 \\ \Delta Y &= + 1111 \cdot 652 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0 \cdot 9999999999 \textcircled{1} \\ \text{Sin} \alpha &= + 0 \cdot 0000000001 \textcircled{2} \\ \text{Cos} \beta &= + 0 \cdot 9999999999 \textcircled{3} \\ \text{Sin} \beta &= 0 \cdot 0000000001 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= - 0 \cdot 0000000001 \textcircled{5} \end{aligned}$$

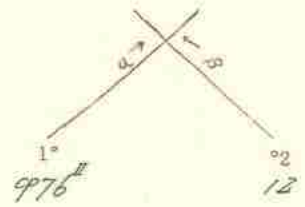
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 1111 \cdot 000013 \\ \Delta X \times \textcircled{2} &= 0 \cdot 1111 \cdot 000083 \\ F &= 1111 \cdot 000096 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 1111 \cdot 000096$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 1111 \cdot 000096 \\ X_2 &= - \frac{1111 \cdot 000096}{1111} \\ X &= - 000096 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \cdot 1111 \cdot 000096 \\ Y_2 &= - \frac{1111 \cdot 000096}{1111} \\ Y &= - 000096 \end{aligned}$$

算出点	14
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$$\begin{aligned} X_2 &= - \frac{12}{976} \times 1000000 \cdot 445 \\ X_1 &= - \frac{976}{976} \times 1000000 \cdot 293 \\ \Delta X &= - 0 \cdot 1111 \cdot 848 \end{aligned}$$

$$\begin{aligned} \alpha &= 171^\circ - 34' - 43'' \\ \beta &= 134^\circ - 34' - 37'' \\ \beta - \alpha &= 272^\circ - 59' - 48'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + 1111 \cdot 47591 \\ \Delta X \times \textcircled{4} &= + 1111 \cdot 15190 \\ E &= 1111 \cdot 22441 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 1111 \cdot 22441$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 1111 \cdot 1963 \\ X_1 &= - \frac{1111 \cdot 1963}{1111} \\ X &= - 1963 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 1111 \cdot 1910 \\ Y_1 &= - \frac{1111 \cdot 1910}{1111} \\ Y &= - 1910 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 41011 \cdot 878 \\ Y_1 &= - 41011 \cdot 285 \\ \Delta Y &= + 1111 \cdot 653 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0 \cdot 9999999999 \textcircled{1} \\ \text{Sin} \alpha &= + 0 \cdot 0000000001 \textcircled{2} \\ \text{Cos} \beta &= + 0 \cdot 9999999999 \textcircled{3} \\ \text{Sin} \beta &= 0 \cdot 0000000001 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= - 0 \cdot 0000000001 \textcircled{5} \end{aligned}$$

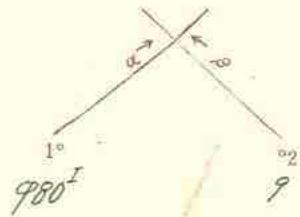
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 1111 \cdot 000013 \\ \Delta X \times \textcircled{2} &= 0 \cdot 1111 \cdot 000083 \\ F &= 1111 \cdot 000096 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 1111 \cdot 000096$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 1111 \cdot 000096 \\ X_2 &= - \frac{1111 \cdot 000096}{1111} \\ X &= - 000096 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \cdot 1111 \cdot 000096 \\ Y_2 &= - \frac{1111 \cdot 000096}{1111} \\ Y &= - 000096 \end{aligned}$$

算出点 3



$$\begin{aligned} \frac{9}{980} X_2 &= -592191.0556 \\ \frac{9}{980} X_1 &= -588831.1019 \\ \Delta X &= -1145.947 \end{aligned}$$

$$\alpha = 342^\circ - 37' - 20''$$

$$\beta = 1254^\circ - 34' - 31''$$

$$\beta - \alpha = 191^\circ - 57' - 11''$$

$$\begin{aligned} Y_2 &= -419101.4662 \\ Y_1 &= -411141.4288 \\ \Delta Y &= +176.0374 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= +0.1954356 \text{ ①} \\ \text{Sin } \alpha &= 0.0298672 \text{ ②} \\ \text{Cos } \beta &= 0.02165978 \text{ ③} \\ \text{sin } \beta &= 0.9699811 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.19994119 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 91201.22292 \\ \Delta X \times \text{④} &= 91461.29204 \\ E &= 126.06912 \end{aligned}$$

$$S_1 = \frac{|E|}{\text{⑤}} = 126.10831$$

$$\begin{aligned} S_1 \times \text{①} &= +122.984 \\ X_1 &= -588831.1019 (+) \\ X &= -581061.093 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 9117.1193 \\ Y_1 &= -411141.4288 (+) \\ Y &= -411017.235 \end{aligned}$$

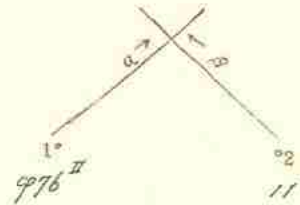
$$\begin{aligned} \Delta Y \times \text{①} &= +172.58350 \\ \Delta X \times \text{②} &= 9113.72304 \\ F &= 186.28654 \end{aligned}$$

$$S_2 = \frac{|F|}{\text{③}} = 186.133167$$

$$\begin{aligned} S_2 \times \text{③} &= 9122.963 \\ X_2 &= -592191.0556 (+) \\ X &= -59061.093 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 9183.227 \\ Y_2 &= -419101.4662 (+) \\ Y &= -411017.235 \end{aligned}$$

算出点 4



$$\begin{aligned} \frac{11}{976} X_2 &= -592121.569 \\ \frac{11}{976} X_1 &= -59251.2193 \\ \Delta X &= -71171.7246 \end{aligned}$$

$$\alpha = 171^\circ - 34' - 13''$$

$$\beta = 1244^\circ - 30' - 31''$$

$$\beta - \alpha = 1073^\circ - 59' - 18''$$

$$\begin{aligned} \Delta Y \times \text{③} &= 71611.72166 \\ \Delta X \times \text{④} &= +1111.72491 \\ E &= 162.84411 \end{aligned}$$

$$S_1 = \frac{|E|}{\text{⑤}} = 162.171198$$

$$\begin{aligned} S_1 \times \text{①} &= +1119.1826 \\ X_1 &= -59251.2193 (+) \\ X &= -59146.0317 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +1195.5106 \\ Y_1 &= -411017.235 (+) \\ Y &= -411610.746 \end{aligned}$$

$$\begin{aligned} Y_2 &= -416661.1951 \\ Y_1 &= -410111.235 \\ \Delta Y &= +1655.0601 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= +0.191161051 \text{ ①} \\ \text{Sin } \alpha &= +0.021687518 \text{ ②} \\ \text{Cos } \beta &= +0.021659781 \text{ ③} \\ \text{sin } \beta &= 0.9699811 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.19994119 \text{ ⑤} \end{aligned}$$

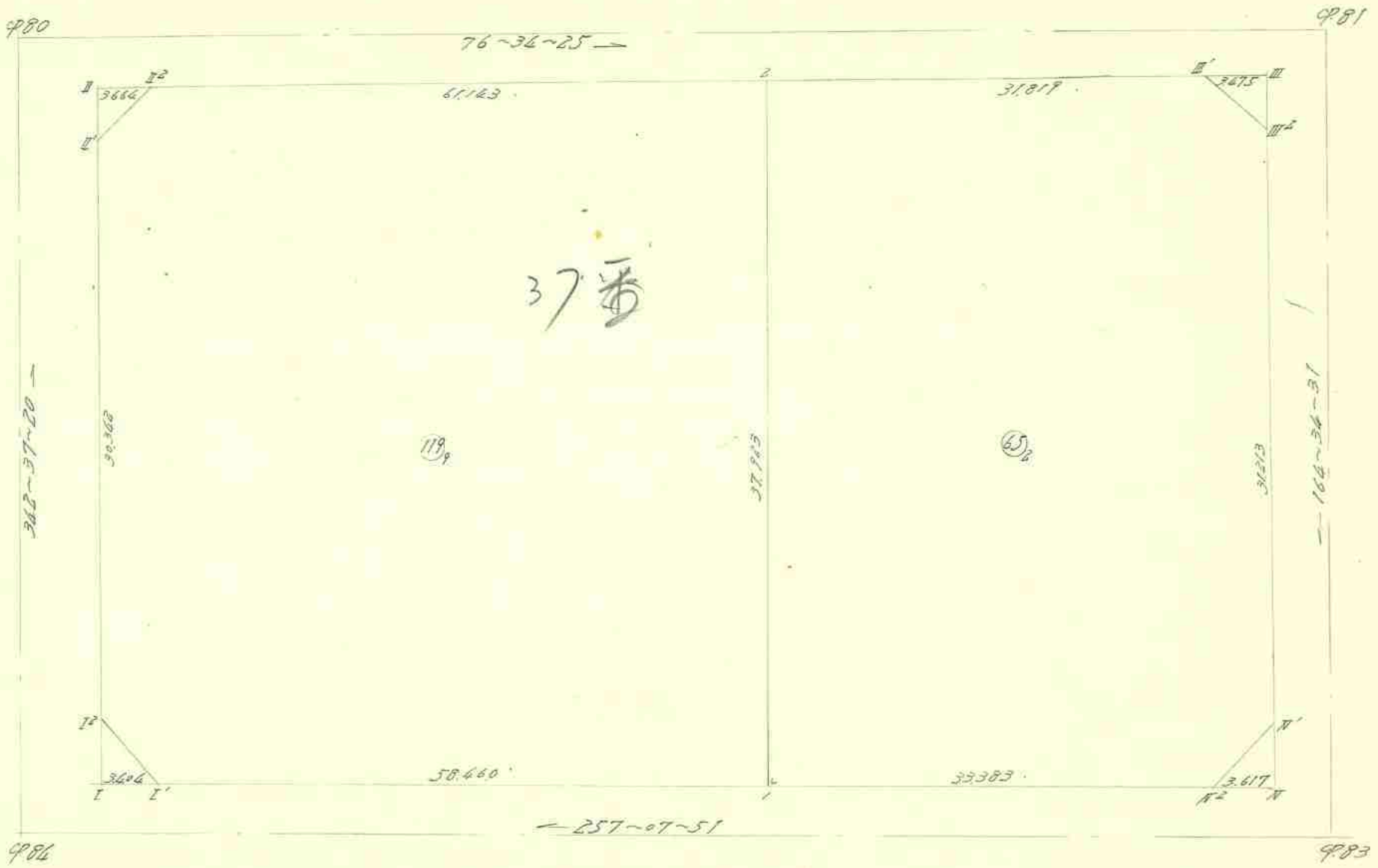
$$\begin{aligned} \Delta Y \times \text{①} &= +160.76961 \\ \Delta X \times \text{②} &= 9111.58462 \\ F &= 162.131403 \end{aligned}$$

$$S_2 = \frac{|F|}{\text{③}} = 162.131403$$

$$\begin{aligned} S_2 \times \text{③} &= +1119.1826 \\ X_2 &= -59251.2193 (+) \\ X &= -59146.0317 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 91161.210 \\ Y_2 &= -416661.1951 (+) \\ Y &= -411610.746 \end{aligned}$$

45



# 各筆面積計算集計表

ブロック番号	各筆確定			備考		各筆確定			備考	
	各筆番号	面 m <sup>2</sup>	積 坪			各筆番号	面 m <sup>2</sup>	積 坪		
⑬	⑬ <sub>1</sub>	1,364.592	612.79							
	⑬ <sub>2</sub>	2,369.960	716.91	町						
					計					
						m <sup>2</sup>		坪		
						ブロック計算 = 3734.575		ブロック計算 = 1129.71		
						各筆集計 = 3734.552		各筆集計 = 1129.70		
						ε = .023		ε = .01		

協和建設測量

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
45 筆番号 ①52	983 <sup>I</sup>	5,862.881	-	+ 11.728	4,220.252	-	+ 35.109	452.239		823.915	
	1	5,855.446	-	+ 29.536	4,187.707	-	+ 40.992	223.262			1,113.714
	2	5,892.417	-	+ 44.359	4,179.260	-	+ 22.503		954.510		1,297.944
	981 <sup>I</sup>	5,899.805	-	+ 4.845	4,210.210	-	+ 35.254		1,755.825		291.717
	981 <sup>II</sup>	5,897.262	-	+ 32.637	4,214.514	-	+ 12.606		595.785	2,105.156	
	983 <sup>II</sup>	5,867.174	-	+ 34.381	4,222.816	-	+ 5.738		98.544	2,503.487	

控除シタル値

X=於テ 5,850

y=於テ 4,150

$$\bar{x} = \frac{675.481}{28} = 24.1243214$$

$$28\bar{x} = 2729.183$$

$$2729.183$$

$$S = \frac{1,366.592}{412.79}$$

印

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
45 筆番号 ①199	1	5,855.446	-	+ 49.993	4,187.707	-	+ 48.545	749.826		4,384.736	
	984 <sup>I</sup>	5,842.424	-	+ 10.531	4,130.715	-	+ 61.327	148.657		323.460	
	984 <sup>II</sup>	5,844.915	-	+ 31.448	4,126.380	-	+ 13.397	65.846			829.598
	980 <sup>I</sup>	5,873.872	-	+ 33.305	4,117.318	-	+ 6.592	223.284			576.776
	980 <sup>II</sup>	5,878.220	-	+ 18.545	4,119.788	-	+ 61.942		2,367.423		366.968
	2	5,892.417	-	+ 22.774	4,179.260	-	+ 67.919		3,560.110	1,805.067	

控除シタル値

X=於テ 5,840

y=於テ 4,100

$$\bar{x} = \frac{1,187.613}{28} = 42.41475$$

$$28\bar{x} = 4739.920$$

$$4739.921$$

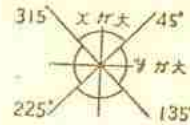
$$S = \frac{2,369.960}{716.917}$$

印

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

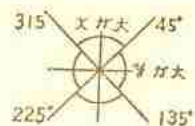


象	I	+	-	+	-
限	II	-	-	+	-
	III	-	-	-	-
	IV	+	-	-	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	983 <sup>IV</sup>	° 1 "		° 1 "										
983 <sup>IV</sup>	983 <sup>IV</sup>			257 07 51	3.617							5863.687	4223.778	CP83 <sup>IV</sup>
983 <sup>IV</sup>	1	91 84 3		"	33.383							5862.881	4220.252	983 <sup>IV</sup>
1	984 <sup>I</sup>			"	58.460							5855.446	4187.707	1
984 <sup>I</sup>	984 <sup>I</sup>			"	3.404							5842.424	4130.715	984 <sup>I</sup>
984 <sup>I</sup>	984 <sup>I</sup>			342 37 20	3.404							5841.116	4127.397	984 <sup>I</sup>
984 <sup>I</sup>	980 <sup>II</sup>			"	30.342							5844.915	4126.380	984 <sup>I</sup>
980 <sup>II</sup>	980 <sup>II</sup>			"	3.664							5873.872	4117.318	980 <sup>II</sup>
980 <sup>II</sup>	980 <sup>II</sup>			76 34 25	3.664							5877.369	4116.224	980 <sup>II</sup>
980 <sup>II</sup>	2	92.962		"	61.143							5878.220	4119.788	980 <sup>II</sup>
2	981 <sup>III</sup>			"	31.819							5892.417	4179.260	2
981 <sup>III</sup>	981 <sup>III</sup>			"	3.475							5899.805	4210.210	981 <sup>III</sup>
981 <sup>III</sup>	981 <sup>III</sup>			164 34 31	3.475							5900.612	4213.590	981 <sup>III</sup>
981 <sup>III</sup>	983 <sup>IV</sup>			"	31.213							5897.262	4214.514	CP81 <sup>III</sup>
983 <sup>IV</sup>	983 <sup>IV</sup>			"	3.617							5867.174	4222.816	983 <sup>IV</sup>
												5863.687	4223.778	983 <sup>IV</sup>

多角点計算用紙

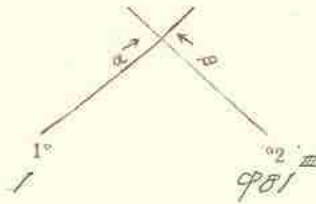
測量No. \_\_\_\_\_



象 限	I	+	+	+
	II	-	-	+
	III	-	-	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N(+)	S(-)	E(+)	W(-)	X	Y	
	983	° "		° "										
983	1			257 07.51	37.000	222730	974880		8.241		36.071	5863.687	4223.778	983

算出点         



$981^{\circ}$   
 $X_2 = -5910101.6112$   
 $X_1 = -589551.4466$   
 $\Delta X = -11451.1646$

$\alpha = 1347^{\circ} - 07' - 51''$   
 $\beta = 296^{\circ} - 34' - 25''$   
 $\beta - \alpha = 189^{\circ} - 26' - 34''$

$\Delta Y \times ③ = 01181.60999$   
 $\Delta X \times ④ = 9143.93157$   
 $E = 137.92164$

$S_1 = \left| \frac{E}{⑤} \right| = 137.92164$

$S_1 \times ① = + 137.92164$   
 $X_1 = -589551.4466 (+)$   
 $X = -589621.4117$

$S_1 \times ② = 0$   
 $Y_1 = -411871.7017 (+)$   
 $Y = -411791.2610$

$Y_2 = -421131.5190$   
 $Y_1 = -411871.7017 (-)$   
 $\Delta Y = -1125.8883$

$\text{Cos} \alpha = + .197418811$  ①  
 $\text{Sin} \alpha = 9 . 22227216$  ②  
 $\text{Cos} \beta = 9 . 232119161$  ③  
 $\text{sin} \beta = 9 . 197216619$  ④  
 $\text{Sin}(\beta - \alpha) = - . 1999953$  ⑤

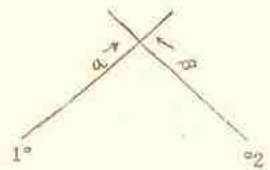
$\Delta Y \times ① = 7125.23284$   
 $\Delta X \times ② = 01101.65964$   
 $F = 135.29248$

$S_2 = \left| \frac{F}{⑤} \right| = 135.29248$

$S_2 \times ③ = 0$   
 $X_2 = -5910101.6112 (+)$   
 $X = -589621.4117$

$S_2 \times ④ = 9$   
 $Y_2 = -421131.5190 (+)$   
 $Y = -411791.2610$

算出点         



$X_2 = -$   
 $X_1 = -$   
 $\Delta X = -$

$\alpha =$   
 $\beta =$   
 $\beta - \alpha =$

$\Delta Y \times ③ = -$   
 $\Delta X \times ④ = -$   
 $E =$

$S_1 = \left| \frac{E}{⑤} \right| =$

$S_1 \times ① = -$   
 $X_1 = -$   
 $X = -$

$S_1 \times ② = -$   
 $Y_1 = -$   
 $Y = -$

$Y_2 = -$   
 $Y_1 = -$   
 $\Delta Y = -$

$\text{Cos} \alpha = -$  ①  
 $\text{Sin} \alpha = -$  ②  
 $\text{Cos} \beta = -$  ③  
 $\text{sin} \beta = -$  ④  
 $\text{Sin}(\beta - \alpha) = -$  ⑤

$\Delta Y \times ① = -$   
 $\Delta X \times ② = -$   
 $F =$

$S_2 = \left| \frac{F}{⑤} \right| =$

$S_2 \times ③ = -$   
 $X_2 = -$   
 $X = -$

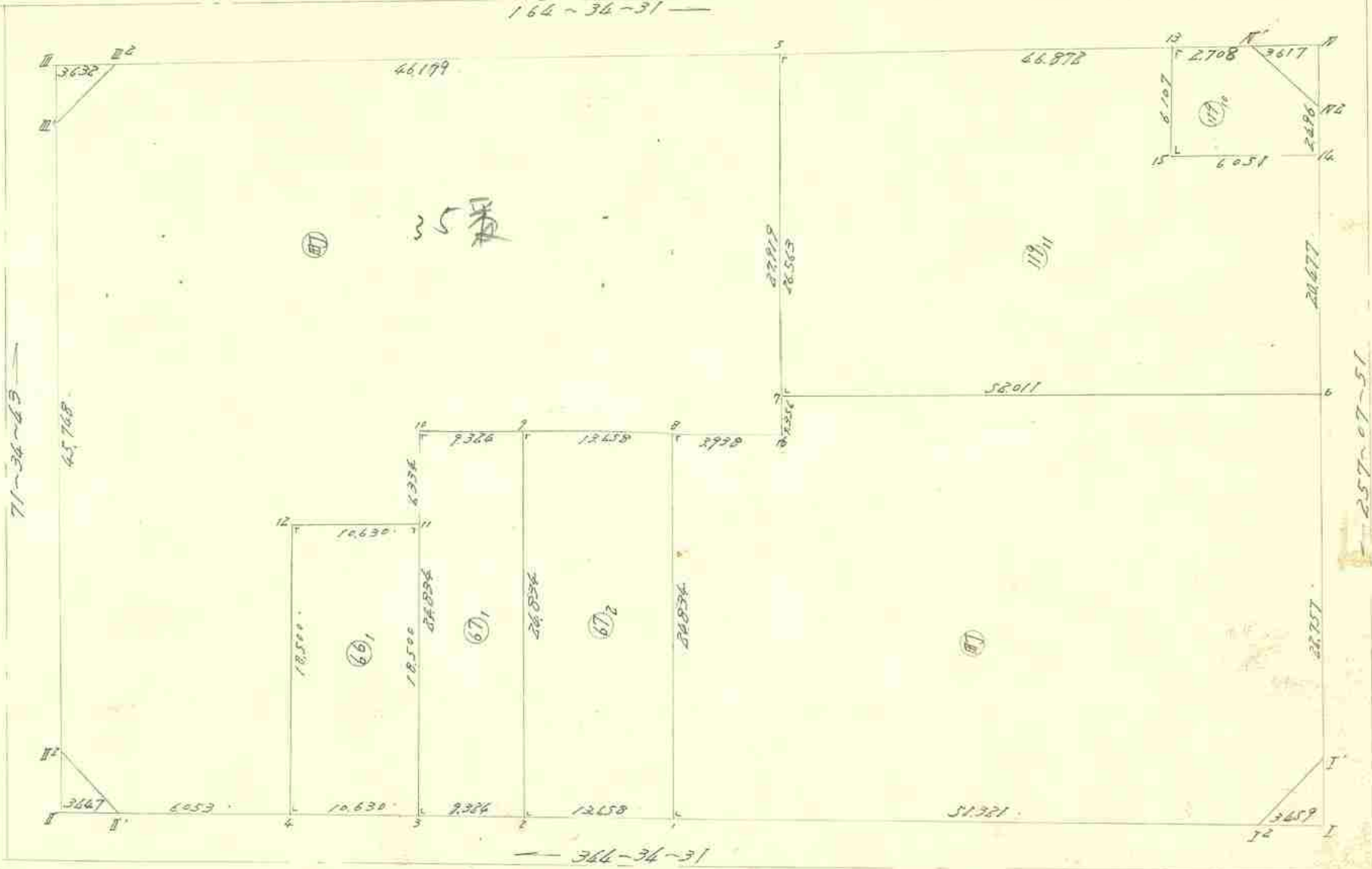
$S_2 \times ④ = -$   
 $Y_2 = -$   
 $Y = -$

46

474

482

164-34-31



35

68

66

67

68

68

346-34-31

475

483





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
46	3	5939.985	-	9 5.326	4208.951	-	+	20.661	826.130		47.673
筆番号	4	5950.232	-	9 15.168	4206.124	-	9	15.007		753.832	92.889
(66)	12	5955.153	-	+ 5.326	4223.958	-	9	20.661	1,139.516	127.600	
	11	5946.906	-	+ 15.168	4226.785	-	+	15.007	673.904	406.275	

控除シタル値

X = 於テ 5,900

y = 於テ 4,200

$\Sigma = 1,500.034$      $1,893.368$      $533.875$      $160.562$

$2S = 393.316$      $393.312$

$S = 196.657$   
 5949<sup>9</sup>    年    月    日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
46	2	5930.997	-	9 2.982	4211.431	-	+	26.420	26.341		27.229
筆番号	3	5939.985	-	9 15.594	4208.951	-	9	21.460		214.278	129.582
(67)	10	5946.591	-	+	2.982	4232.891	-	9	26.420	438.334	78.346
	9	5937.603	-	+	15.594	4235.371	-	+	21.460	763.160	551.575

控除シタル値

X = 於テ 5930

y = 於テ 4,200

$\Sigma = 1,893.368$      $652.612$      $829.921$      $166.811$

$2S = 463.111$      $463.110$

$S = 231.550$   
 70.04<sup>9</sup>    年    月    日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXu+1	Yn	Yn-Yn+1	Δyn+Δyu+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
46 筆番号 672	1	5917.831	-	⊖ 6.560	4215.064	-	⊕ 27.573	491.654	,	,	98.820
	2	5930.997	-	⊖ 19.772	4211.431	-	⊖ 20.307	,	629.456	,	226.014
	9	5937.603	-	⊕ 6.560	4235.371	-	⊖ 27.573	,	1036.828	232.034	,
	8	5924.437	-	⊕ 19.772	4239.004	-	⊕ 20.307	496.242	,	771.187	,

控除シタル値

X=於テ 5900

y=於テ 4200

$$\bar{x} = \frac{987.896 + 1.666.884 + 1.003.221}{3} = 324.834$$

$$2s = 678.388$$

$$s = 678.387$$

$$S = 339.194$$

102.617 年 月 日 印

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXu+1	Yn	Yn-Yn+1	Δyn+Δyu+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
46 筆番号 672	983 <sup>上</sup>	5868.359	-	⊖ 52.036	4228.714	-	⊕ 17.942	149.977	,	,	973.802
	1	5917.831	-	⊖ 56.078	4215.064	-	⊖ 16.290	,	595.081	,	283.977
	8	5924.437	-	⊖ 2.810	4239.004	-	⊖ 24.987	,	1.610.087	,	81.501
	16	5920.641	-	⊕ 3.435	4240.051	-	⊖ 2.354	142.747	103.825	,	,
	7	5921.002	-	⊕ 49.777	4247.358	-	⊖ 15.141	923.631	1.560.907	,	,
	6	5870.864	-	⊕ 55.207	4255.192	-	⊕ 8.352	90.726	,	2.494.915	,
	983 <sup>下</sup>	5865.795	-	⊕ 2.515	4233.006	-	⊕ 26.472	153.440	,	57.630	,

控除シタル値

X=於テ 5860

y=於テ 4210

$$\bar{x} = \frac{394.153 + 3.271.548 + 4.216.677}{3} = 1.339.292$$

$$2s = 2.877.395$$

$$s = 2.877.395$$

$$S = 1.438.697$$

435.217 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
46	筆番号	6	5870.864	-	⊙ 45.578	4255.192	-	↑ 33.795	29.199	,	,	692.421
	⑩	7	5921.002	-	⊙ 57.203	4241.358	-	⊙ 11.772	,	800.996	,	77.688
		5	5928.067	-	↑ 38.119	4266.964	-	⊙ 38.073	,	2210.785	1027.841	,
		13	5882.883	-	↑ 46.808	4279.431	-	⊙ 6.580	,	84.770	1845.686	,
		15	5881.259	-	↑ 7.459	4273.544	-	↑ 4.278	48.166	,	250.205	,
		16	5875.424	-	↑ 10.395	4275.153	-	↑ 18.352	99.541	,	365.415	,

控除シタル値

X = 於テ 5870

y = 於テ 4240

$$\Sigma = 176.906 \quad 2,895.951 \quad 3,489.147 \quad 770.103$$

$$\Sigma S = 2,719.045 \quad 2,719.046$$

$$S = 1,359.522$$

411.26 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
46	筆番号	16	5920.641	-	⊙ 18.524	4240.051	-	↑ 34.073	203.301	,	,	741.905
	⑩	10	5946.591	-	⊙ 24.265	4232.891	-	↑ 13.266	618.076	,	,	798.100
		11	5946.906	-	⊙ 8.562	4226.785	-	↑ 18.933	401.145	,	,	229.333
		12	5955.153	-	⊙ 5.326	4223.958	-	↑ 20.661	1139.516	,	,	127.600
		4	5950.232	-	⊙ .914	4206.124	-	↑ 19.444	976.711	,	,	5.597
	975 <sup>2</sup>	5956.067	-	⊙ 10.247	4204.514	-	⊙ .743	,	41.658	,	,	46.255
	975 <sup>2</sup>	5960.479	-	⊙ 18.869	4206.867	-	⊙ 45.757	,	2767.338	,	,	129.573
	974 <sup>2</sup>	5974.936	-	⊙ 12.104	4250.271	-	⊙ 47.816	,	3583.140	,	,	608.480
	974 <sup>2</sup>	5972.583	-	↑ 46.869	4254.683	-	⊙ 16.693	,	1211.628	2562.938	,	
	5	5928.067	-	↑ 151.948	4266.964	-	⊙ 14.632	410.676	7478.644			

X = 於テ 5800

y = 於テ 4200

$$\Sigma = 4,242.745 \quad 7,603.764 \quad 6,041.182 \quad 2,686.843$$

$$S = 1,677.169$$

507.34 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
46											
筆番号	982 <sup>10</sup>	5875.980	-	+	4.849	4277.587	-	+	4.998	29.888	36.789
	14	5875.424	-	⊖	5.279	4275.153	-	+	4.243	21.929	27.203
	15	5881.259	-	⊕	7.459	4273.544	-	⊖	4.278	48.166	26.435
	13	5882.883	-	+	.986	4279.431	-	⊖	6.607	85.118	79.299
	982 <sup>10</sup>	5880.273	-	+	6.903	4280.151	-	+	1.844	18.943	70.072
			-	-			-				
			-	-			-				
			-	-			-				
			-	-			-				

控除シタル値

X = 於テ 5.870

y = 於テ 4.270

Z = 970.760 133.284 116.160 53.138

2S = 62.524

62.122

S = 31.261

946.47

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
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			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ

y = 於テ

M =

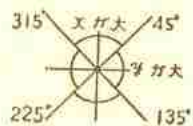
2S =

S =

年 月 日

多角点計算用紙

測量No.

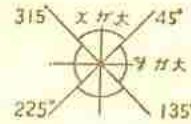


象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N(+)	S(-)	E(+)	W(-)	X	Y	
	983 <sup>I</sup>	"		"								5865.025	4229.634	983 <sup>I</sup>
983 <sup>I</sup>	983 <sup>II</sup>			344 34 31	3.459							5868.359	4228.714	983 <sup>II</sup>
983 <sup>II</sup>	1			"	51.381							5917.839	4215.064	1
1	2			"	13.658							5930.999	4211.431	2
2	3	90986.-		"	9.324							5938.985	4208.951	3
3	4			"	10.630							5950.232	4206.126	4
4	975 <sup>I'</sup>			"	6.053							5956.067	4206.516	975 <sup>I'</sup>
975 <sup>I'</sup>	975 <sup>II'</sup>			"	3.467							5959.390	4203.597	975 <sup>II'</sup>
975 <sup>II'</sup>	975 <sup>III'</sup>			71 36 43	3.467							5960.479	4206.867	975 <sup>III'</sup>
975 <sup>III'</sup>	976 <sup>I'</sup>			"	45.748							5976.936	4250.271	976 <sup>I'</sup>
976 <sup>I'</sup>	976 <sup>II'</sup>			"	3.632							5976.084	4253.717	976 <sup>II'</sup>
976 <sup>II'</sup>	976 <sup>III'</sup>			164 34 31	3.632							5976.583	4256.683	976 <sup>III'</sup>
976 <sup>III'</sup>	5	95759		"	46.179							5928.067	4266.964	5
5	13			"	46.872							5882.883	4278.631	13
13	982 <sup>I'</sup>			"	2.708							5880.273	4280.151	982 <sup>I'</sup>
982 <sup>I'</sup>	982 <sup>II'</sup>			"	3.617							5876.786	4281.113	982 <sup>II'</sup>
982 <sup>II'</sup>	982 <sup>III'</sup>			257 07 51	3.617							5875.980	4277.587	982 <sup>III'</sup>
982 <sup>III'</sup>	14	65.730		"	2.496							5875.424	4275.153	14
14	6			"	20.477							5870.864	4255.197	6
6	983 <sup>I'</sup>			"	22.757							5865.795	4233.006	983 <sup>I'</sup>
983 <sup>I'</sup>	983 <sup>I</sup>			"	3.459							5865.025	4229.634	983 <sup>I</sup>

多角点計算用紙

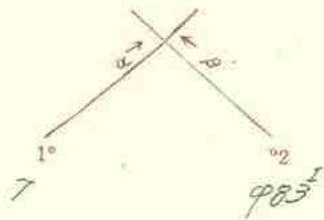
測量No. \_\_\_\_\_



象	I	+	/	+	/
限	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	規点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	975 <sup>II</sup>											5959.390	4203.597	975 <sup>II</sup>
975	4			166 34 31	9.500	265977	963979	9.158	2.527			5950.232	4206.124	4
4	12			74 34 31	18.500	"	"	4.921	17.834			5955.153	4223.958	12
12	11			166 34 31	10.630	"	"	10.247	2.827			5944.906	4226.785	11
11	10			74 34 31	6.874	"	"	1.685	6.106			5946.591	4232.891	10
10	9			166 34 31	9.324	"	"	8.988	2.480			5937.603	4235.371	9
9	8				13.658	"	"	13.166	3.633			5924.437	4239.004	8
8	16				3.938	"	"	3.796	1.047			5920.641	4240.051	16
16	7			74 34 31	1.356			0.361	1.307			5921.002	4241.358	7
	4											5950.232	4206.124	4
4	3			166 34 31	10.630	265977	963979	10.247	2.827			5939.985	4208.951	3
3	2				9.324			8.988	2.480			5930.997	4211.431	2
2	1				13.658			13.166	3.633			5917.831	4215.054	1
	5											5928.067	4266.966	5
5	13			166 34 31	46.872	265977	963979	45.186	12.467			5882.883	4279.431	13
13	15			256 34 31	6.107			1.624		5.887	5.881	5881.259	4273.566	15

算出点 6



$$\begin{aligned} 483^{\circ} X_2 &= -581651.1025 \\ 7 X_1 &= -59271.002 \\ \Delta X &= 0.1155.977 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42289.1634 \\ Y_1 &= -42471.358 \\ \Delta Y &= 0.111.724 \end{aligned}$$

$$\begin{aligned} \alpha &= 164^{\circ} - 34' - 17'' \\ \beta &= 177^{\circ} - 07' - 5'' \\ \beta - \alpha &= 192^{\circ} - 31' - 12'' \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= 0.19631981 \text{ ①} \\ \text{Sin } \alpha &= +0.18651978 \text{ ②} \\ \text{Cos } \beta &= +0.18212726 \text{ ③} \\ \text{Sin } \beta &= +0.19741881 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.19991015 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 0.1155.61182 \\ \Delta X \times \text{④} &= 0.1155.57091 \\ E &= 1.111.95967 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +1.111.30771 \\ \Delta X \times \text{②} &= 0.1155.89897 \\ F &= 1.216.19602 \end{aligned}$$

$$S_1 = \frac{E}{\text{③}} = 152.0414$$

$$S_2 = \frac{F}{\text{④}} = 126.2161$$

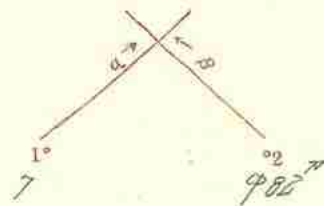
$$\begin{aligned} S_1 \times \text{①} &= 0.1155.138 \\ X_1 &= -59271.002 (+) \\ X &= -5870.864 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= +1.111.839 \\ X_2 &= -58165.1025 (+) \\ X &= -5870.864 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +1.113.1834 \\ Y_1 &= -42471.358 (+) \\ Y &= -4255.199 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= +1.115.1558 \\ Y_2 &= -42289.1634 (+) \\ Y &= -4255.199 \end{aligned}$$

算出点 5



$$\begin{aligned} 482^{\circ} X_2 &= -581761.17186 \\ 7 X_1 &= -59271.10108 \\ \Delta X &= 0.11461.216 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42281.11113 \\ Y_1 &= -42421.13158 \\ \Delta Y &= +1.139.1755 \end{aligned}$$

$$\begin{aligned} \alpha &= 176^{\circ} - 34' - 17'' \\ \beta &= 134^{\circ} - 34' - 17'' \\ \beta - \alpha &= 170^{\circ} - 04' - 00'' \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= +0.18651978 \text{ ①} \\ \text{Sin } \alpha &= +0.19631981 \text{ ②} \\ \text{Cos } \beta &= +0.19631981 \text{ ③} \\ \text{Sin } \beta &= 0.18651978 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.11111111 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +1.139.131906 \\ \Delta X \times \text{④} &= +1.111.175022 \\ E &= 1.121.156828 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +1.111.151777 \\ \Delta X \times \text{②} &= 0.1142.622938 \\ F &= 1.111.19910 \end{aligned}$$

$$S_1 = \frac{E}{\text{③}} = 126.151628$$

$$S_2 = \frac{F}{\text{④}} = 111.111111$$

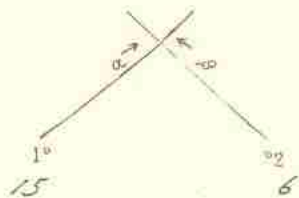
$$\begin{aligned} S_1 \times \text{①} &= +1.117.10165 \\ X_1 &= -59271.10108 (+) \\ X &= -59271.10108 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= +1.111.12817 \\ X_2 &= -581761.17186 (+) \\ X &= -59271.10108 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +1.112.161016 \\ Y_1 &= -42421.13158 (+) \\ Y &= -42461.19164 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 0.11161.11619 \\ Y_2 &= -42281.11113 (+) \\ Y &= -42461.19164 \end{aligned}$$

算出点 14



$$\begin{aligned} 6 X_2 &= -518701.1864 \\ 15 X_1 &= -51881.12517 \\ \Delta X &= -11710.0399 \end{aligned}$$

$$\begin{aligned} \alpha &= 166^\circ - 3' - 3'' \\ \beta &= 177^\circ - 6' - 5'' \\ \beta - \alpha &= 192^\circ - 3' - 2'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 9116.68747 \\ \Delta X \times \textcircled{4} &= 01701.17184 \\ E &= 1161.04667 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 1161.04667$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 01115.1833 \\ X_1 &= -51881.12517 (+) \\ X &= -51875.4624 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 71111.61018 \\ Y_1 &= -4273.05446 (+) \\ Y &= -4277.1519 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4277.15192 \\ Y_1 &= -4273.05446 (-) \\ \Delta Y &= -4.09746 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= 7.19619981 \textcircled{1} \\ \sin \alpha &= 7.1665972 \textcircled{2} \\ \cos \beta &= 7.1627266 \textcircled{3} \\ \sin \beta &= 7.1974881 \textcircled{4} \\ \sin(\beta - \alpha) &= -0.19990105 \textcircled{5} \end{aligned}$$

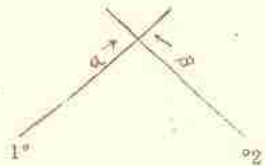
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 7117.69098 \\ \Delta X \times \textcircled{2} &= 8111.176625 \\ F &= 120.45523 \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{5}} = 120.45523$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 71116.5610 \\ X_2 &= -518701.1864 (-) \\ X &= -51875.4624 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 71119.1964 \\ Y_2 &= -4277.15192 (-) \\ Y &= -4277.1519 \end{aligned}$$

算出点  



$$\begin{aligned} X_2 &= - \dots \\ X_1 &= - \dots (-) \\ \Delta X &= - \dots \end{aligned}$$

$$\begin{aligned} \alpha &= \dots \\ \beta &= \dots \\ \beta - \alpha &= \dots \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= - \dots \\ \Delta X \times \textcircled{4} &= - \dots (-) \\ E &= \dots \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = \dots$$

$$\begin{aligned} S_1 \times \textcircled{1} &= - \dots \\ X_1 &= - \dots (-) \\ X &= - \dots \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= - \dots \\ Y_1 &= - \dots (-) \\ Y &= - \dots \end{aligned}$$

$$\begin{aligned} Y_2 &= - \dots \\ Y_1 &= - \dots (-) \\ \Delta Y &= - \dots \end{aligned}$$

$$\begin{aligned} \cos \alpha &= - \dots \textcircled{1} \\ \sin \alpha &= - \dots \textcircled{2} \\ \cos \beta &= - \dots \textcircled{3} \\ \sin \beta &= - \dots \textcircled{4} \\ \sin(\beta - \alpha) &= - \dots \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= - \dots \\ \Delta X \times \textcircled{2} &= - \dots (-) \\ F &= \dots \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{5}} = \dots$$

$$\begin{aligned} S_2 \times \textcircled{3} &= - \dots \\ X_2 &= - \dots (-) \\ X &= - \dots \end{aligned}$$

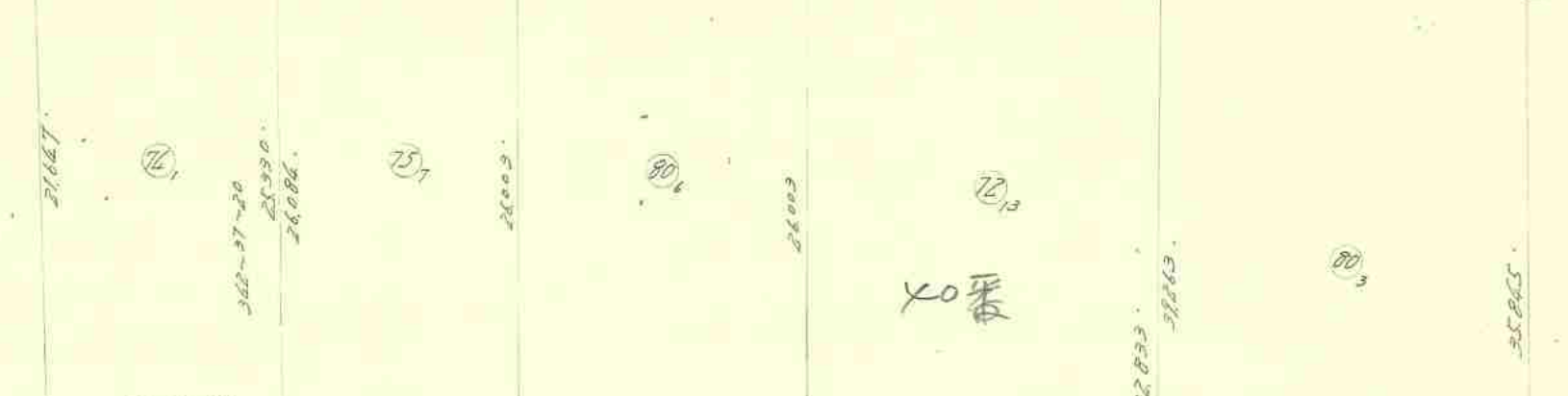
$$\begin{aligned} S_2 \times \textcircled{4} &= - \dots \\ Y_2 &= - \dots (-) \\ Y &= - \dots \end{aligned}$$

47

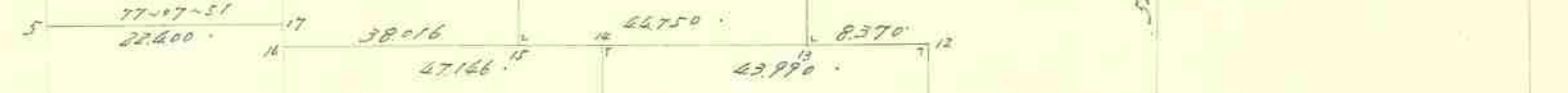
986

982

77-07-51



40番



342-37-20



164-34-31



257-07-51

987

989



面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47	筆番号 17	5,816.737	-	+29.163	4,158.597	-	+14.272	238.870		1708.864	
	5	5,811.748	-	+15.670	4,136.760	-	+28.302	332.492			576.029
	984 <sup>1</sup>	5,832.407	-	+24.994	4,130.295	-	+3.975	128.818			757.193
	984 <sup>2</sup>	5,836.742	-	+8.504	4,132.785	-	+20.737		761.919		278.804
	6	5,840.911	-	+20.005	4,151.032	-	+25.812		1,055.995	1,020.895	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X=於テ 5,800

y=於テ 4,100

$$\bar{x} = \frac{700.180}{28} = 25.007$$

$$2S = 1,117.736$$

$$S = 558.867$$

$$169.064$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47	筆番号 4	5,790.332	-	+30.136	4,166.861	-	+10.255	926.355		2028.354	
	987 <sup>1</sup>	5,786.101	-	+1.740	4,148.342	-	+22.854	1967.752		94.115	
	987 <sup>2</sup>	5,788.592	-	+25.647	4,144.007	-	+11.582	1026.073			1128.648
	5	5,811.748	-	+28.145	4,136.760	-	+14.590		1,130.403		1,034.610
	17	5,816.737	-	+21.416	4,158.597	-	+20.101		3,513.900	1,254.913	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X=於テ 5,700

y=於テ 4,100

$$\bar{x} = \frac{3920.180}{28} = 140.036$$

$$2S = 1,224.123$$

$$S = 612.062$$

$$185.157$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47											
筆番号	15	5,824.484	-	+ 33.816	4,195.883	-	131.268	765.566		1,551.580	
②7	16	5,816.018	-	+ 16.427	4,158.823	-	+ 44.851	718.423			144.935
	6	5,840.911	-	+ 33.816	4,151.032	-	931.268		1,279.205		34.898
	7	5,849.834	-	+ 16.427	4,190.091	-	+ 44.851		2,235.105	658.575	

控除シタル値  
 X=於テ 5,800  
 y=於テ 4,150

$\Sigma = 1,483,989$   $3,514,310$   $2,210,155$   $179,833$   
 $2S = 2,930,321$   $2,030,320$   
 $S = 1,465,161$   
 307.09<sup>29</sup> 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47											
筆番号	13	5,834.452	-	+ 35.318	4,239.509	-	137.834	1,303.457		1,748.559	
⑧6	15	5,824.484	-	+ 15.382	4,195.883	-	+ 49.418	1,209.950			90.492
	7	5,849.834	-	+ 35.318	4,190.091	-	+ 37.834		1,885.420		3.214
	8	5,859.802	-	+ 15.382	4,233.717	-	+ 49.418		2,955.295	672.455	

控除シタル値  
 X=於テ 5,800  
 y=於テ 4,190

$\Sigma = 2,513,407$   $4,840,715$   $2,421,014$   $93,706$   
 $2S = 2,927,308$   $2,327,308$   
 $S = 1,463,654$   
 352.01<sup>29</sup> 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47 筆番号	3	5,800.362	-	+36.186	4,210.760	-	137.923	392.958		2,198.661	
	4	5,790.332	-	015.656	4,166.861	-	+51.937	17.243			263.976
	16	5,816.018	-	936.186	4,158.823	-	937.923		986.681		319.269
	14	5,826.518	-	+15.156	4,204.784	-	951.937		1,896.635	857.698	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5,790

y = 於テ 4,150

$$\bar{x} = \frac{410,201}{28} = 14,685.75$$

$$2S = 2473.115$$

$$2473.114$$

$$S = 1,236.557$$

374.069

印  
年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47 筆番号	2	5,810.160	-	+35.954	4,253.645	-	136.909	374.995		1,928.752	
	3	5,800.362	-	916.358	4,210.760	-	128.861	17.688			176.012
	14	5,826.518	-	935.954	4,204.784	-	936.909		978.753		172.004
	12	5,836.316	-	+16.358	4,247.669	-	928.861		1,774.436	779.770	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5,800

y = 於テ 4,200

$$\bar{x} = \frac{392,683}{28} = 14,024.39$$

$$2S = 2360.506$$

$$2360.506$$

$$S = 1,180.253$$

357.039

印  
年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47	1	5,813.536	-	+54.882	4,268.422	-	+3.009	40.730	,	3,755.136	,
筆番号	2	5,810.160	-	922.780	4,253.645	-	+20.753	210.850	,	,	1,222.033
7013	12	5,836.316	-	924.292	4,247.669	-	+14.136	513.363	,	,	1,157.975
	13	5,834.452	-	923.486	4,239.509	-	+13.952	480.674	,	,	927.908
	8	5,859.802	-	930.590	4,233.717	-	917.145	,	1,025.305	,	1,031.403
	9	5,865.042	-	+46.266	4,256.654	-	934.705	,	2,257.283	2,621.154	,

控除シタル値

X = 於テ 5,800

y = 於テ 4,200

$$\bar{z} = \frac{1245.617}{25} = 49.82468$$

$$2S = 2,036.971$$

$$2,036.971$$

$$S = 1,018.485$$

308.097

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47	10	5,833.108	-	+40.897	4,293.164	-	+18.231	603.592	,	1,765.278	,
筆番号	11	5,826.765	-	931.934	4,265.400	-	+36.510	977.190	,	,	491.786
803	9	5,865.042	-	943.467	4,256.654	-	913.939	,	906.620	,	289.189
	982	5,870.226	-	928.620	4,279.339	-	926.977	,	1,894.487	,	76.868
	982	5,867.662	-	+37.118	4,283.631	-	913.825	,	935.427	1,248.315	,

控除シタル値

X = 於テ 5,800

y = 於テ 4,250

$$\bar{z} = \frac{1580.782}{25} = 63.23128$$

$$2S = 2,155.752$$

$$2,155.752$$

$$S = 1,077.876$$

386.067

年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
47											
筆番号	989	5,819.208	-	+ 9.965	4,293.251	-	+ 27.396	526.184		430.996	
⑧	1	5,813.536	-	9 7.557	4,268.422	-	+ 27.851	376.991			139.215
	11	5,826.765	-	9 19.572	4,265.400	-	24.742		662.220		301.409
	10	5,833.108	-	9 3.264	4,293.164	-	30.416		1,007.013	140.887	
	989	5,823.501	-	+ 13.900	4,295.816	-	1.087		2.045	636.842	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5,800

y = 於テ 4,250

$$M = \underline{902.175} \quad \underline{1,671.278} \quad \underline{1,208.725} \quad \underline{440.624}$$

$$S = \underline{768.103}$$

$$S = \underline{384.051}$$

$$116.187$$

年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号			-	-		-	-				
○			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ

y = 於テ

$$M =$$

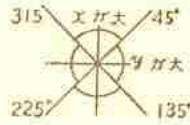
$$S =$$

$$S =$$

年 月 日

多角点計算用紙

測量No.



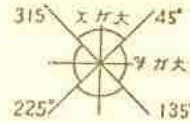
象	I	+	/	+	/
	II	/	-	+	/
限	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	989 <sup>IV</sup>	"		"	.			.	.	.	.	5820.014	4296.777	989 <sup>IV</sup>
989 <sup>IV</sup>	989 <sup>IV</sup>			257 0751	3.617			.	.	.	.	5819.208	4293.251	989 <sup>IV</sup>
989 <sup>IV</sup>	1			"	25.466			.	.	.	.	5813.536	4268.622	1
1	2			"	15.158			.	.	.	.	5810.160	4253.645	2
2	3	148.640		"	43.990			.	.	.	.	5800.362	4210.760	3
3	4			"	45.030			.	.	.	.	5790.332	4166.861	4
4	987 <sup>I</sup>			"	18.996			.	.	.	.	5786.101	4148.342	987 <sup>I</sup>
987 <sup>I</sup>	987 <sup>I</sup>			"	3.404			.	.	.	.	5785.363	4145.024	987 <sup>I</sup>
987 <sup>I</sup>	987 <sup>I</sup>			342 3720	3.404			.	.	.	.	5788.592	4144.007	987 <sup>I</sup>
987 <sup>I</sup>	5			"	24.264			.	.	.	.	5811.748	4136.760	5
5	984 <sup>II</sup>	45.911		"	21.647			.	.	.	.	5832.407	4130.295	984 <sup>II</sup>
984 <sup>II</sup>	984 <sup>II</sup>			"	3.683			.	.	.	.	5835.922	4129.195	984 <sup>II</sup>
984 <sup>II</sup>	984 <sup>II</sup>			77 0751	3.683			.	.	.	.	5836.742	4132.785	984 <sup>II</sup>
984 <sup>II</sup>	6			"	18.717			.	.	.	.	5860.911	4151.032	6
6	7			"	40.066			.	.	.	.	5849.834	4190.091	7
7	8	150.337		"	44.750			.	.	.	.	5859.802	4233.717	8
8	9			"	23.528			.	.	.	.	5865.062	4256.654	9
9	982 <sup>III</sup>			"	23.270			.	.	.	.	5870.226	4279.339	982 <sup>III</sup>
982 <sup>III</sup>	982 <sup>III</sup>			"	3.459			.	.	.	.	5870.996	4282.711	982 <sup>III</sup>
982 <sup>III</sup>	982 <sup>III</sup>			164 3431	3.459			.	.	.	.	5867.462	4283.631	982 <sup>III</sup>
982 <sup>III</sup>	10			"	35.845			.	.	.	.	5833.108	4293.166	10
10	989 <sup>IV</sup>	45.811		"	9.966			.	.	.	.	5823.501	4295.816	989 <sup>IV</sup>
989 <sup>IV</sup>	989 <sup>IV</sup>			"	3.617			.	.	.	.	5820.014	4296.777	989 <sup>IV</sup>

協和建設測量

多角点計算用紙

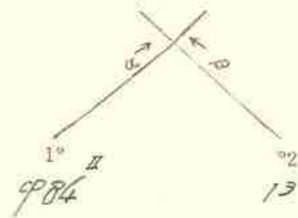
測量No.



象	I	+	/	+	/
限	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	987 <sup>I</sup>	0	"	0	"							5785.343	4145.024	987 <sup>I</sup>
987 <sup>I</sup>	4			77°07'51"	22.400	222730	974880	4.989		21.837		5790.332	4166.861	4
4	17			342°37'20"	27.668	298671	954356	26.405			8.264	5816.737	4158.597	17
17	5			257°07'51"	22.400	222730	974880		4.989		21.837	5811.748	4136.760	5
					21.370			24.279			2.565			988 <sup>II</sup>
	4											5790.332	4166.861	4
4	3			77°07'51"	45.030	222730	974880	10.030		43.899		5800.362	4210.760	3
3	2			77°07'51"	43.990	"	"	9.798		42.885		5810.160	4253.645	2
2	12			347°07'51"	26.830	"	"	26.156			5.976	5836.316	4247.669	12
12	13	43°99'0"		257°07'51"	8.370	"	"		1.864		8.160	5834.452	4239.509	13
13	14			"	35.620	"	"		7.934		34.725	5826.518	4204.784	14
14	15	44°95'0"		"	9.130	"	"		2.034		8.901	5824.484	4195.883	15
15	7			347°07'51"	26.003	"	"	25.350			5.792	5849.834	4190.091	7
7	6			257°07'51"	40.066	"	"		8.924		39.066	5840.911	4151.038	6
	2											5810.160	4253.645	2
2	1			77°07'51"	15.158	222730	974880	3.376		14.777		5813.536	4268.422	1
1	11			347°07'51"	12.570	"	"	13.229			3.022	5826.765	4265.460	11
11	9	52°87'3"		"	39.263	"	"	38.277			8.745	5865.042	4256.654	9
9	982 <sup>III</sup>			77°07'51"	26.729	"	"	5.953		26.058		5870.996	4282.711	982 <sup>III</sup>

算出点 8



$$\begin{aligned} 13 X_2 &= -58341.452 \\ 984 X_1 &= -58341.192 \\ \Delta X &= -911.171 \end{aligned}$$

$$\alpha = 177^\circ - 07' - 55''$$

$$\beta = 1947^\circ - 47' - 51''$$

$$\beta - \alpha = 1770^\circ - 66' - 66''$$

$$\begin{aligned} \Delta Y \times ③ &= +1107.54302 \\ \Delta X \times ④ &= +1111.52741 \\ E &= 1107.21561 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 1107.2156$$

$$\begin{aligned} S_1 \times ① &= +1123.1880 \\ X_1 &= -58341.192 \\ X &= -58519.1802 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= +1104.522 \\ Y_1 &= -412191.1195 \\ Y &= -423313.1717 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42319.509 \\ Y_1 &= -412191.1195 \\ \Delta Y &= -111101.3174 \end{aligned}$$

$$\text{Cos } \alpha = +.12227226 \text{ ①}$$

$$\text{Sin } \alpha = +.19748811 \text{ ②}$$

$$\text{Cos } \beta = +.19748811 \text{ ③}$$

$$\text{Sin } \beta = 9.12227226 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = -.11111111 \text{ ⑤}$$

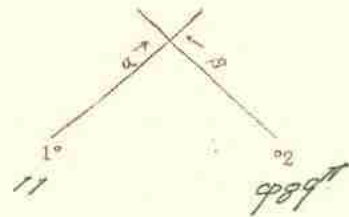
$$\begin{aligned} \Delta Y \times ① &= +124.56980 \\ \Delta X \times ② &= 9111.43308 \\ F &= 1261.010219 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 1261.010219$$

$$\begin{aligned} S_2 \times ③ &= +125.350 \\ X_2 &= -58341.452 \\ X &= -58519.1802 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 91115.7192 \\ Y_2 &= -42319.509 \\ Y &= -423313.1717 \end{aligned}$$

算出点 10



$$\begin{aligned} 989 X_2 &= -58261.0114 \\ 11 X_1 &= -58261.1765 \\ \Delta X &= -911.61751 \end{aligned}$$

$$\alpha = 177^\circ - 07' - 55''$$

$$\beta = 1946^\circ - 36' - 31''$$

$$\beta - \alpha = 1769^\circ - 26' - 40''$$

$$\begin{aligned} \Delta Y \times ③ &= +130.24683 \\ \Delta X \times ④ &= +1111.79558 \\ E &= 1128.45125 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 1281.4796$$

$$\begin{aligned} S_1 \times ① &= +116.342 \\ X_1 &= -58261.1765 \\ X &= -58439.1108 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= +127.1764 \\ Y_1 &= -42165.4101 \\ Y &= -421913.1164 \end{aligned}$$

$$\begin{aligned} Y_2 &= -421961.1717 \\ Y_1 &= -42165.4101 \\ \Delta Y &= -1131.1917 \end{aligned}$$

$$\text{Cos } \alpha = +.12227226 \text{ ①}$$

$$\text{Sin } \alpha = +.19748811 \text{ ②}$$

$$\text{Cos } \beta = +.1916319811 \text{ ③}$$

$$\text{Sin } \beta = 9.121659721 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = -.1919101055 \text{ ⑤}$$

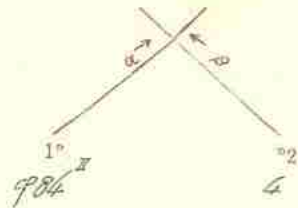
$$\begin{aligned} \Delta Y \times ① &= +116.98847 \\ \Delta X \times ② &= 9116.58142 \\ F &= 1131.5834 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 1131.5834$$

$$\begin{aligned} S_2 \times ③ &= +1131.0196 \\ X_2 &= -58261.0114 \\ X &= -58439.1108 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 91131.16115 \\ Y_2 &= -421961.1717 \\ Y &= -421913.1164 \end{aligned}$$

算出点 6



$$\begin{aligned} \frac{4}{984} X_2 &= -571901.1332 \\ \frac{4}{984} X_1 &= -581915.1922 \\ \Delta X &= -0.1415 \cdot 5190 \end{aligned}$$

$$\alpha = 177^\circ - 07' - 57''$$

$$\beta = 1342^\circ - 37' - 20''$$

$$\beta - \alpha = 265^\circ - 29' - 27''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +135.94677 \\ \Delta X \times \textcircled{4} &= +1131.61641 \\ E &= 122.93096 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 122.131997$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 114.1989 \\ X_1 &= -58351.922 \\ X &= -58401.911 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 121.1837 \\ Y_1 &= -41291.1195 \\ Y &= -41511.1032 \end{aligned}$$

$$\begin{aligned} Y_2 &= -41661.861 \\ Y_1 &= -41291.1195 \\ \Delta Y &= -1.137 \cdot 666 \end{aligned}$$

$$\text{Cos} \alpha = + \cdot 122217261 \textcircled{1}$$

$$\text{Sin} \alpha = + \cdot 19748811 \textcircled{2}$$

$$\text{Cos} \beta = + \cdot 19543561 \textcircled{3}$$

$$\text{Sin} \beta = - \cdot 12986711 \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 199691016 \textcircled{5}$$

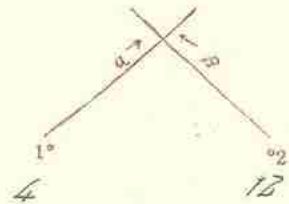
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +118.38920 \\ \Delta X \times \textcircled{3} &= 0.44.44482 \\ F &= 152.83402 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{6}} \right| = 152.19980$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 1510.1579 \\ X_2 &= -571901.1332 \\ X &= -58401.911 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= - 11151.829 \\ Y_2 &= -41661.861 \\ Y &= -41511.1032 \end{aligned}$$

算出点 16



$$\begin{aligned} \frac{12}{4} X_2 &= -58361.1316 \\ \frac{4}{4} X_1 &= -571901.1332 \\ \Delta X &= -1.45 \cdot 984 \end{aligned}$$

$$\alpha = 1342^\circ - 37' - 20''$$

$$\beta = 257^\circ - 07' - 57''$$

$$\beta - \alpha = 194^\circ - 30' - 17''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 9117.99804 \\ \Delta X \times \textcircled{4} &= 0.44.82893 \\ E &= 126.83089 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 126.19142$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 1257.6186 \\ X_1 &= -571901.1332 \\ X &= -58161.018 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= - 1118.038 \\ Y_1 &= -41661.861 \\ Y &= -41518.823 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42417.16169 \\ Y_1 &= -41661.861 \\ \Delta Y &= -1.1801 \cdot 808 \end{aligned}$$

$$\text{Cos} \alpha = + \cdot 19543561 \textcircled{1}$$

$$\text{Sin} \alpha = 0 \cdot 219816711 \textcircled{2}$$

$$\text{Cos} \beta = 0 \cdot 122217261 \textcircled{3}$$

$$\text{Sin} \beta = - \cdot 19748811 \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 199691016 \textcircled{5}$$

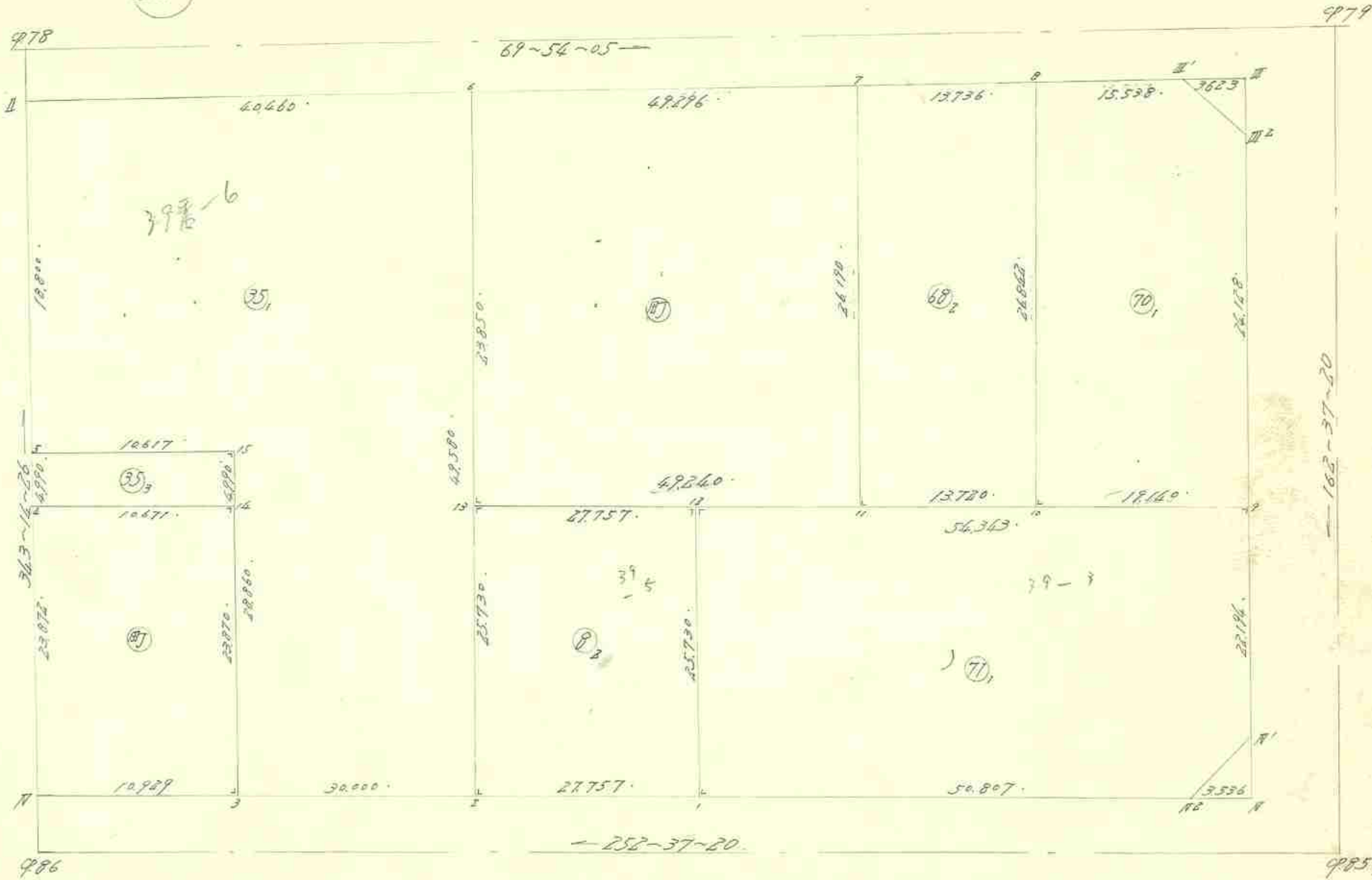
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +177.11960 \\ \Delta X \times \textcircled{2} &= 9113.73409 \\ F &= 190.85369 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{6}} \right| = 191.1357$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0 \cdot 1220.1298 \\ X_2 &= -58361.1316 \\ X &= -58161.018 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= - 1188.1846 \\ Y_2 &= -42417.16169 \\ Y &= -41518.823 \end{aligned}$$

48



# 各筆面積計算集計表

ブロック 番号	各筆確定		備考	各筆確定		備考
	各筆 番号	面積 m <sup>2</sup>		積 坪	各筆 番号	
48	(70) <sub>1</sub>	515.890	156.06			
	(68) <sub>1</sub>	363.804	110.05			
	(8) <sub>2</sub>	714.197	216.04			
	(71) <sub>1</sub>	1392.027	421.09			
	(35) <sub>1</sub>	1666.777	504.25			
	(35) <sub>3</sub>	53.107	16.06			
	(75)	1231.966	372.68			
	(75)	257.802	77.98			
				計		
					m <sup>2</sup>	坪
				ブロック計算 =	6194.986	1873.98
				各筆集計 =	6195.068	1874.01
				$\epsilon =$	.182	.03

協和建設測量

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
48	筆番号 9	5836.731	-	+ 28.743	4118.177	-	117.080	406.245		3224.306	
	10	5831.074	-	9 19.900	4093.911	-	+ 26.283	375.141			1868.829
(70)	8	5856.631	-	0 30.956	4085.894	-	9 6.576		372.405		2658.935
	979	5861.970	-	0 3.126	4100.487	-	9 19.077		1182.202		314.122
	979	5859.757	-	+ 25.239	4104.971	-	0 11.690		698.559	2649.363	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X=於テ 5800

y=於テ 4000

$\Sigma = 1221.386$   $2753.166$   $5873.667$   $4961.886$

$2S = 1031.780$

$1031.781$

S = 515.890

156.06<sup>9</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
48	筆番号 10	5831.016	-	+ 29.715	4093.911	-	7 5.077	157.458		2790.565	
	11	5828.916	-	0 20.896	4080.817	-	+ 20.918	562.975			1188.752
(68)	7	5851.910	-	9 29.715	4072.995	-	9 5.077		263.547		3169.046
	8	5856.631	-	+ 20.896	4085.894	-	0 20.918		1180.494	1794.141	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X=於テ 5200

y=於テ 4000

$\Sigma = 727.432$   $1442.041$   $4525.406$   $3172.792$

$2S = 727.608$

$727.608$

S = 363.804

119.05<sup>9</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
48											
筆番号	1	5,795.944	-	+ 32,846,4067.999	-	-	+ 18,805,1804.227			2233.495	
⑧	2	5,787.654	-	0 16,266,4041.509	-	-	7 34,175,2995.575				875.185
	13	5,812.210	-	9 32,846,4033.824	-	-	9 18,805		2110.109		1110.983
	12	5,820.500	-	7 16,266,4060.314	-	-	0 34,175		4118.088	901.068	
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					

控除シタル値

X = 於テ 5,700

Y = 於テ 4,000

$$\bar{X} = 4799.802, 6228.197, 2214.563, 1786.168$$

$$2S = 1428.395$$

$$1428.395$$

$$S = 714.197$$

年 月 日

21604

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
48											
筆番号	985	5,811.119	-	+ 19,806,4116.487	-	-	+ 50,807,5645.623			2203.844	
⑦	1	5,795.944	-	0 9,381,4067.999	-	-	7 56,173,5289.462				627.877
	12	5,820.500	-	9 40,787,4060.314	-	-	9 44,178		8323.449		2460.027
	9	5,836.731	-	+ 4,950,4112.177	-	-	7 58,492		7997.670	555.276	
	985	5,815.550	-	+ 25,612,4118.806	-	-	0 40,310		498.021	3062.859	
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					

控除シタル値

X = 於テ 5,700

Y = 於テ 4,000

$$\bar{X} = 11,085.085, 13,819.129, 5881.977, 3077.726$$

$$2S = 2704.054$$

$$2704.054$$

$$S = 1352.027$$

年 月 日

42109

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
48	2	5787.654	-	+56.277	4041.509	-	+12.823	520.491	,	3461.542	,
筆番号	3	5778.694	-	⊖18.583	4012.878	-	+37.251	1068.880	,	,	610.972
351	15	5806.237	-	⊖24.372	4004.258	-	+18.752	1054.556	,	,	591.216
	5	5803.066	-	⊖14.830	3994.126	-	+15.553	825.335	,	,	209.489
	978 <sup>#</sup>	5821.067	-	⊖31.905	3988.705	-	⊖32.575	,	2315.008	,	277.733
	6	5834.971	-	+33.413	4026.701	-	⊖52.804	,	4486.809	1560.421	,
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5750

y = 於テ 3980

$\bar{z} = 3469.262$   $6801.817$   $5021.963$   $1689.410$

$\bar{z}_S = 3332.555$

$3332.553$

S = 1666.277

504.05<sup>#</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
48	14	5801.475	-	+7.949	4005.748	-	+8.694	99.766	,	125.181	,
筆番号	4	5798.288	-	⊖1.591	3995.564	-	+11.622	96.323	,	,	8.852
253	5	5803.066	-	⊖7.949	3994.126	-	⊖8.694	,	113.596	,	32.798
	15	5806.237	-	+1.591	4004.258	-	⊖11.622	,	188.706	22.684	,
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5790

y = 於テ 3990

$\bar{z} = 196.087$   $302.302$   $147.865$   $47.650$

$\bar{z}_S = 106.215$

$106.215$

S = 53.107

16.06<sup>#</sup>

年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
48 筆番号 ㊦	11	5826.916	-	+ 39700	4080.817	-	737.171	662.072			2,410.435	
	13	5812.210	-	0 8.055	4033.826	-	756.116	119.596				111.352
	6	5834.971	-	0 39700	4026.701	-	0 39.171		971.139			266.039
	7	5851.910	-	+ 8.055	4072.995	-	956.116		2268.002	426.875		
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						

控除シタル値

X = 於テ 5810

y = 於テ 4020

$$\bar{z} = \frac{782.213}{25} = 3246.161$$

$$2S = \frac{2463.928}{2} = 2463.928$$

$$S = 1231.964$$

372.68<sup>th</sup> 年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
48 筆番号 ㊦	3	5778.694	-	+ 26.045	4012.878	-	+ 3.300	94.690			595.858	
	986 <sup>th</sup>	5775.430	-	0 19.594	4002.468	-	+ 17.314	440.295				243.906
	4	5798.288	-	0 26.045	3995.564	-	0 3.300		159.350			144.916
	14	5801.475	-	+ 19.594	4005.748	-	0 17.314		891.238	308.566		
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						

控除シタル値

X = 於テ 5750

y = 於テ 3990

$$\bar{z} = \frac{534.985}{25} = 1050.588$$

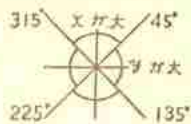
$$2S = \frac{515.603}{2} = 515.604$$

$$S = 257.802$$

7798<sup>th</sup> 年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

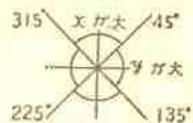


象 限	I	+	+	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

測点	規点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	985 <sup>II</sup>	119.493		119.493								5812.175	4119.862	985 <sup>II</sup>
985 <sup>II</sup>	985 <sup>II</sup>			252.3720	3.536							5811.119	4116.487	985 <sup>II</sup>
985 <sup>II</sup>	1			"	50.807							5795.944	4106.999	1
1	2			"	27.757							5787.654	4104.509	2
2	3			"	30.000							5778.694	4102.878	3
3	986 <sup>II</sup>			"	10.929							5775.430	4100.448	986 <sup>II</sup>
986 <sup>II</sup>	4			343.426	23.872							5798.288	3995.564	4
4	5	47.662		"	4.990							5803.066	3994.126	5
5	978 <sup>II</sup>			"	18.800							5821.067	3988.705	978 <sup>II</sup>
978 <sup>II</sup>	6			69.5405	40.460							5834.971	4026.701	6
6	7			"	49.286							5851.910	4072.995	7
7	8	119.030		"	13.736							5856.631	4085.894	8
8	979 <sup>II</sup>			"	15.538							5861.970	4100.487	979 <sup>II</sup>
979 <sup>II</sup>	979 <sup>II</sup>			162.3720	3.623							5863.215	4103.889	979 <sup>II</sup>
979 <sup>II</sup>	979 <sup>II</sup>			"	3.623							5859.757	4106.971	979 <sup>II</sup>
979 <sup>II</sup>	9	46.322		"	24.128							5836.731	4112.177	9
9	985 <sup>II</sup>			"	22.194							5815.550	4118.806	985 <sup>II</sup>
985 <sup>II</sup>	985 <sup>II</sup>			"	3.536							5812.175	4119.862	985 <sup>II</sup>

多角点計算用紙

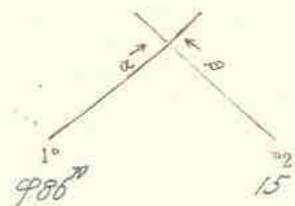
測量No.



象 限	I	+	↗	+	↘
	II	+	↖	+	↘
	III	-	↖	-	↗
	IV	-	↗	-	↘

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	985 <sup>頂</sup>	° ' "		° ' "	.			.	.	.	.	5812.175	4119.862	985 <sup>頂</sup>
985 <sup>頂</sup>	2			252 3720	82.100	298671	954356	.	24.521	.	78.353	5787.654	4041.509	2
2	13			342 3720	25.730	"	"	(R) 24.556	.	.	7.685	5812.210	4033.824	13
13	12			72 3720	27.757	"	"	8.290	.	(R) 26.490	.	5820.500	4060.314	12
12	1			162 3720	25.730	"	"	.	(R) 24.556	7.685	.	5795.944	4067.999	1
	985 <sup>頂</sup>				.			.	.	.	.	5812.175	4119.862	985 <sup>頂</sup>
985 <sup>頂</sup>	9			342 3720	25.730	298671	954356	(R) 24.556	.	.	7.685	5836.721	4112.177	9
9	10			252 3720	19.440	"	"	.	5.717	.	(R) 18.266	5831.014	4093.911	10
10	11			"	13.720	"	"	.	4.098	.	(R) 13.094	5826.916	4080.817	11
	2				.			.	.	.	.	5787.654	4041.509	2
2	3			252 3720	30.000	298671	954356	.	8.960	.	(R) 28.631	5778.694	4012.878	3
3	15			342 3720	28.860	"	"	(R) 27.543	.	.	8.620	5806.237	4004.258	15
15	14			162 3720	4.990	"	"	.	(R) 4.762	1.490	.	5801.475	4005.748	14

算出点 5



$$\begin{aligned} \frac{15}{98.6^\circ} X_2 &= -580161.237 \\ X_1 &= -577751.430 \\ \Delta X &= -1130.1807 \end{aligned}$$

$$\alpha = 134.3^\circ - 14^\circ - 18''$$

$$\beta = 125.2^\circ - 37^\circ - 18''$$

$$\beta - \alpha = 189^\circ - 22' - 15''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 91111.54059 \\ \Delta X \times \textcircled{4} &= 91111.40085 \\ E &= 1128.86026 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 128.86118$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +11217.636 \\ X_1 &= -577751.430 \\ X &= -580161.237 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 91111.40085 \\ Y_1 &= -401061.448 \\ Y &= -399941.126 \end{aligned}$$

$$\begin{aligned} Y_2 &= -401061.2158 \\ Y_1 &= -401061.448 \\ \Delta Y &= +111.1810 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +.195757214 \textcircled{1} \\ \text{Sin} \alpha &= 9.12883546 \textcircled{2} \\ \text{Cos} \beta &= 9.8986771 \textcircled{3} \\ \text{sin} \beta &= 9.195437161 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.19999421 \textcircled{5} \end{aligned}$$

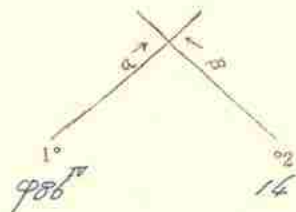
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1111.73312 \\ \Delta X \times \textcircled{2} &= 91111.88332 \\ F &= 1110.67864 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 110.67171$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 91111.1771 \\ X_2 &= -580161.237 \\ X &= -580161.0166 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 91111.1771 \\ Y_2 &= -401061.2158 \\ Y &= -399941.126 \end{aligned}$$

算出点 4



$$\begin{aligned} \frac{14}{98.6^\circ} X_2 &= -580171.4175 \\ X_1 &= -577751.430 \\ \Delta X &= -1136.1045 \end{aligned}$$

$$\alpha = 134.3^\circ - 14^\circ - 18''$$

$$\beta = 125.2^\circ - 37^\circ - 18''$$

$$\beta - \alpha = 189^\circ - 22' - 15''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 91111.198561 \\ \Delta X \times \textcircled{4} &= 91111.88332 \\ E &= 1121.87059 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 121.87210$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +11217.636 \\ X_1 &= -577751.430 \\ X &= -580161.237 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 91111.88332 \\ Y_1 &= -401061.448 \\ Y &= -399941.564 \end{aligned}$$

$$\begin{aligned} Y_2 &= -401061.7448 \\ Y_1 &= -401061.448 \\ \Delta Y &= -111.1968 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +.195757214 \textcircled{1} \\ \text{Sin} \alpha &= 9.12883546 \textcircled{2} \\ \text{Cos} \beta &= 9.8986771 \textcircled{3} \\ \text{sin} \beta &= 9.195437161 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.19999421 \textcircled{5} \end{aligned}$$

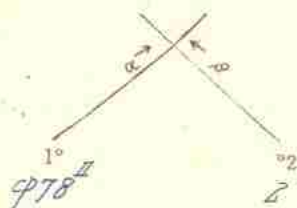
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1111.73312 \\ \Delta X \times \textcircled{2} &= 91111.88332 \\ F &= 1110.67864 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 110.67171$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 91111.1771 \\ X_2 &= -580171.4175 \\ X &= -580161.237 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 91111.1771 \\ Y_2 &= -401061.7448 \\ Y &= -399941.564 \end{aligned}$$

算出點 6



$$\begin{aligned} X_2 &= -57871.654 \\ X_1 &= -5821.067 \\ \Delta X &= -0.1314.173 \end{aligned}$$

$$\begin{aligned} \alpha &= 169^\circ - 54' - 10.5'' \\ \beta &= 134^\circ - 57' - 30'' \\ \beta - \alpha &= 272^\circ - 43' - 1.5'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + 150.39381 \\ \Delta X \times \textcircled{4} &= + 119.97949 \\ E &= 140.41432 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 140.14599$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 113.906 \\ X_1 &= -5821.067 \\ X &= -5834.971 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 137.996 \\ Y_1 &= -3988.1705 \\ Y &= -4026.1701 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4041.509 \\ Y_1 &= -3988.1705 \\ \Delta Y &= +152.1804 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= + 0.13141637 \textcircled{1} \\ \sin \alpha &= + 0.1319103 \textcircled{2} \\ \cos \beta &= + 0.19543561 \textcircled{3} \\ \sin \beta &= 0.18981671 \textcircled{4} \\ \sin(\beta - \alpha) &= - 0.19988173 \textcircled{5} \end{aligned}$$

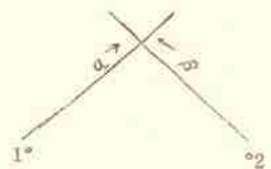
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 118.14541 \\ \Delta X \times \textcircled{2} &= 0.131.37825 \\ F &= 149.52366 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 149.5795$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 147.3161 \\ X_2 &= -5787.654 \\ X &= -5834.971 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.114.1101 \\ Y_2 &= -4041.509 \\ Y &= -4026.1701 \end{aligned}$$

算出點



$$\begin{aligned} X_2 &= - \\ X_1 &= - \\ \Delta X &= - \end{aligned}$$

$$\begin{aligned} \alpha &= - \\ \beta &= - \\ \beta - \alpha &= - \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= - \\ \Delta X \times \textcircled{4} &= - \\ E &= - \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = -$$

$$\begin{aligned} S_1 \times \textcircled{1} &= - \\ X_1 &= - \\ X &= - \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= - \\ Y_1 &= - \\ Y &= - \end{aligned}$$

$$\begin{aligned} Y_2 &= - \\ Y_1 &= - \\ \Delta Y &= - \end{aligned}$$

$$\begin{aligned} \cos \alpha &= - \\ \sin \alpha &= - \\ \cos \beta &= - \\ \sin \beta &= - \\ \sin(\beta - \alpha) &= - \end{aligned}$$

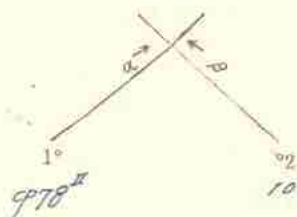
$$\begin{aligned} \Delta Y \times \textcircled{1} &= - \\ \Delta X \times \textcircled{2} &= - \\ F &= - \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = -$$

$$\begin{aligned} S_2 \times \textcircled{3} &= - \\ X_2 &= - \\ X &= - \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= - \\ Y_2 &= - \\ Y &= - \end{aligned}$$

算出點	8
-----	---



$$\begin{aligned} 10 \quad X_2 &= -5181311.014 \\ 9978'' \quad X_1 &= -518211.0167 \\ \Delta X &= -1119.1947 \end{aligned}$$

$$\begin{aligned} Y_2 &= -401811.1917 \\ Y_1 &= -398811.1705 \\ \Delta Y &= +1110.0212 \end{aligned}$$

$$\alpha = 169^\circ - 52' - 65''$$

$$\text{Cos} \alpha = + . 12141316171 \quad \textcircled{1}$$

$$\beta = 122^\circ - 57' - 20''$$

$$\text{Sin} \alpha = + . 19191911013 \quad \textcircled{2}$$

$$\text{Cos} \beta = + . 19141315161 \quad \textcircled{3}$$

$$\text{Sin} \beta = 9 . 12181816171 \quad \textcircled{4}$$

$$\beta - \alpha = 272^\circ - 43' - 15''$$

$$\text{Sin}(\beta - \alpha) = - . 1918181713 \quad \textcircled{5}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + 1100.20398 \\ \Delta X \times \textcircled{4} &= 91111.97088 \\ E &= 1103.17486 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 136.15267 \\ \Delta X \times \textcircled{2} &= + 119.34126 \\ F &= 126.18117 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 1103.17486$$

$$S_2 = \frac{|F|}{\textcircled{5}} = 126.18117$$

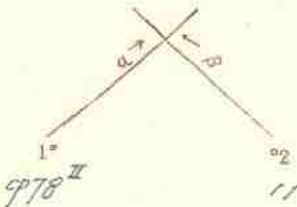
$$\begin{aligned} S_1 \times \textcircled{1} &= + 1195.1566 \\ X_1 &= -518211.0167 \\ X &= -518516.1631 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 1215.1617 \\ X_2 &= -5181311.014 \\ X &= -518516.1631 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 1197.1189 \\ Y_1 &= -398811.1705 \\ Y &= -401815.1894 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9 1118.0117 \\ Y_2 &= -401811.1917 \\ Y &= -401815.1894 \end{aligned}$$

算出點	7
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$$\begin{aligned} 11 \quad X_2 &= -518216.1916 \\ 9978'' \quad X_1 &= -518211.0167 \\ \Delta X &= -1115.1849 \end{aligned}$$

$$\begin{aligned} Y_2 &= -401801.1817 \\ Y_1 &= -398811.1705 \\ \Delta Y &= -1192.1112 \end{aligned}$$

$$\alpha = 169^\circ - 52' - 65''$$

$$\text{Cos} \alpha = + . 12141316171 \quad \textcircled{1}$$

$$\beta = 122^\circ - 57' - 20''$$

$$\text{Sin} \alpha = + . 19191911013 \quad \textcircled{2}$$

$$\text{Cos} \beta = + . 19141315161 \quad \textcircled{3}$$

$$\text{Sin} \beta = 9 . 12181816171 \quad \textcircled{4}$$

$$\beta - \alpha = 272^\circ - 43' - 15''$$

$$\text{Sin}(\beta - \alpha) = - . 1918181713 \quad \textcircled{5}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + 187.190764 \\ \Delta X \times \textcircled{4} &= 9111.74693 \\ E &= 189.165257 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 131.65309 \\ \Delta X \times \textcircled{2} &= + 115.49281 \\ F &= 126.176028 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 189.165257$$

$$S_2 = \frac{|F|}{\textcircled{5}} = 126.176028$$

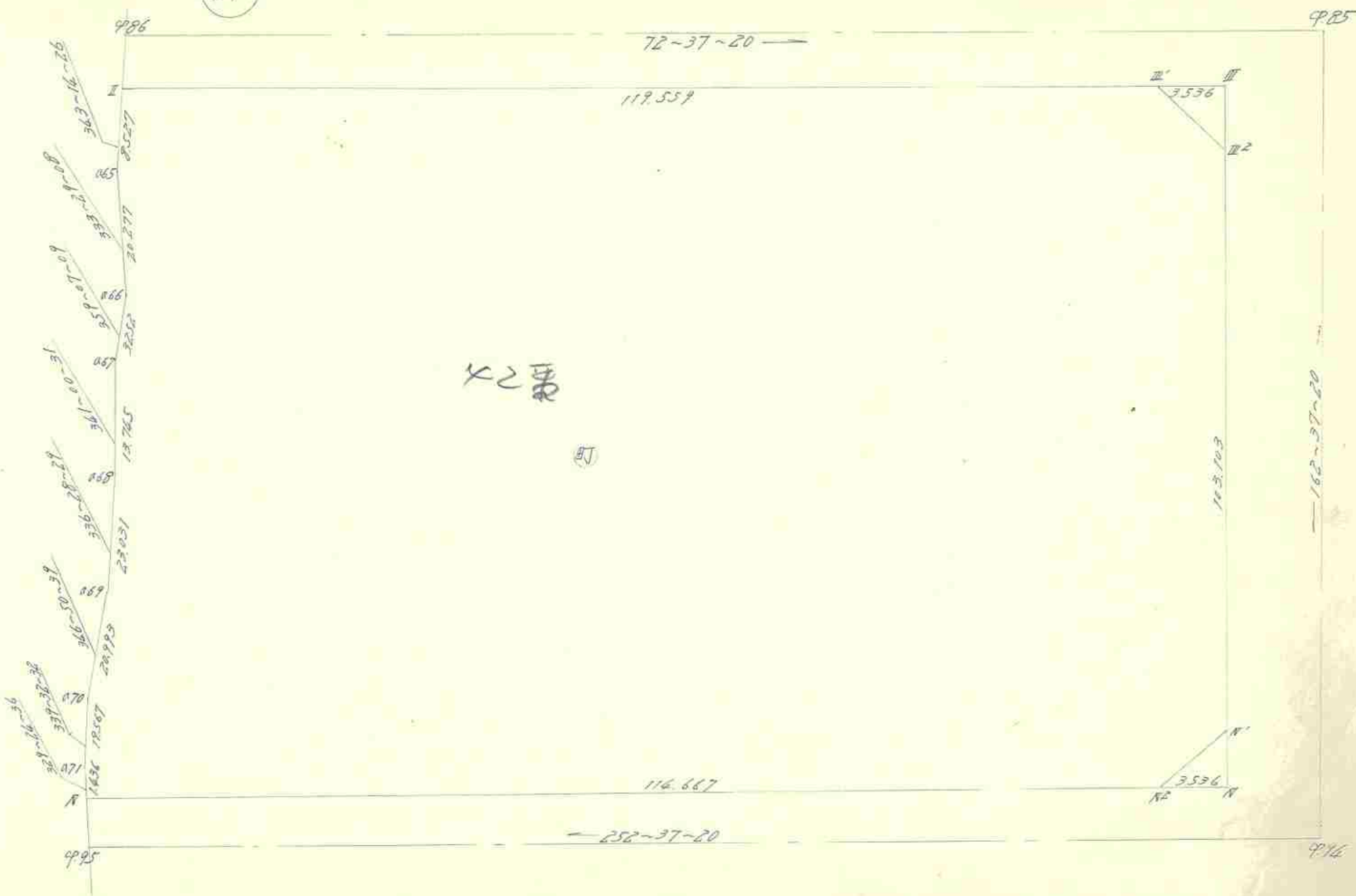
$$\begin{aligned} S_1 \times \textcircled{1} &= + 1195.1566 \\ X_1 &= -518211.0167 \\ X &= -518511.1910 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 1214.1994 \\ X_2 &= -518216.1916 \\ X &= -518511.1910 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 1186.1399 \\ Y_1 &= -398811.1705 \\ Y &= -401711.1995 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9 1117.8228 \\ Y_2 &= -401801.1817 \\ Y &= -401711.1995 \end{aligned}$$

49



36  
 329-32-32  
 339-16-16  
 329-26-36  
 366-26-36  
 170  
 366-50-29  
 366-26-36  
 20983  
 18567  
 1636  
 17567  
 1636  
 869  
 23031  
 20983  
 366-50-29  
 366-26-36  
 12031  
 868  
 12765  
 361-10-31  
 336-28-09  
 366-26-36  
 869  
 363-16-26  
 333-29-08  
 109-10-09  
 359-07-16  
 3252  
 857  
 866  
 20277  
 85  
 8527

72-37-20

119.559

X2

D

116.667

252-37-20

III'  
 3536  
 III  
 III2

N  
 3536  
 N  
 N  
 N

103.103

162-37-20

985

985

# 各筆面積計算集計表

ブロック 番号	各筆確定				備考		各筆確定				備考	
	各筆 番号	面 m <sup>2</sup>	積 坪				各筆 番号	面 m <sup>2</sup>	積 坪			
49	(43)	13215	501	3997	69							
						計						
							m <sup>2</sup>				坪	
						ブロック計算=	.			ブロック計算=	.	
						各筆集計=	.	(-)		各筆集計=	.	(-)
						ε =	.			ε =	.	

協和建設測量

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 ㊟	㉞ <sup>IV2</sup>	5700・246	-	+38・679	4151・186	-	⊕711・751	5615・041	,		5847・723	,
	㉞ <sup>IV</sup>	5665・998	-	+33・012	4041・753	-	⊕710・164	1762・404	,		1378・350	,
	㉞ <sup>VI</sup>	5667・234	-	-19・569	4041・022	-	⊕7・570	130・461	,			802・760
	㉞ <sup>VI</sup>	5685・567	-	-38・775	4034・183	-	⊕71・617	413・182	,			1325・446
	㉞ <sup>VI</sup>	5706・009	-	-41・559	4029・405	-	⊕73・971	782・502	,			1222・042
	㉞ <sup>VI</sup>	5727・126	-	-34・114	4020・212	-	⊕73・666	1054・004	,			689・512
	㉞ <sup>VI</sup>	5740・123	-	-16・249	4015・739	-	⊕4・523	407・626	,			255・743
	㉞ <sup>VI</sup>	5743・375	-	-21・396	4015・689	-	⊕9・102	849・899	,			335・682
	㉞ <sup>VI</sup>	5761・519	-	-26・309	4006・637	-	⊕71・511	1283・695	,			174・613

控除シタル値

X=於テ

y=於テ

Σ =

ΣS =

S =

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ○	㉞ <sup>II</sup>	5769・684	-	-43・874	4004・178	-	⊖711・642	,	13361・761	,	183・306
	㉞ <sup>III'</sup>	5805・393	-	-33・390	4118・279	-	⊖718・532	,	18419・043	,	2949・336
	㉞ <sup>III2</sup>	5803・074	-	⊕700・716	4122・710	-	⊖35・225	,	5392・032	2358・860	,
	㉞ <sup>IV'</sup>	5704・677	-	⊕702・828	4153・504	-	⊖28・476	,	1556・982	15784・509	,

控除シタル値

X=於テ 5.650

y=於テ 4.000

Σ =

ΣS = 26431・004

26431・002

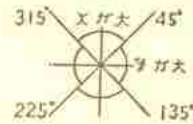
S = 13215・501

3.997.69坪

年 月 日

多角点計算用紙

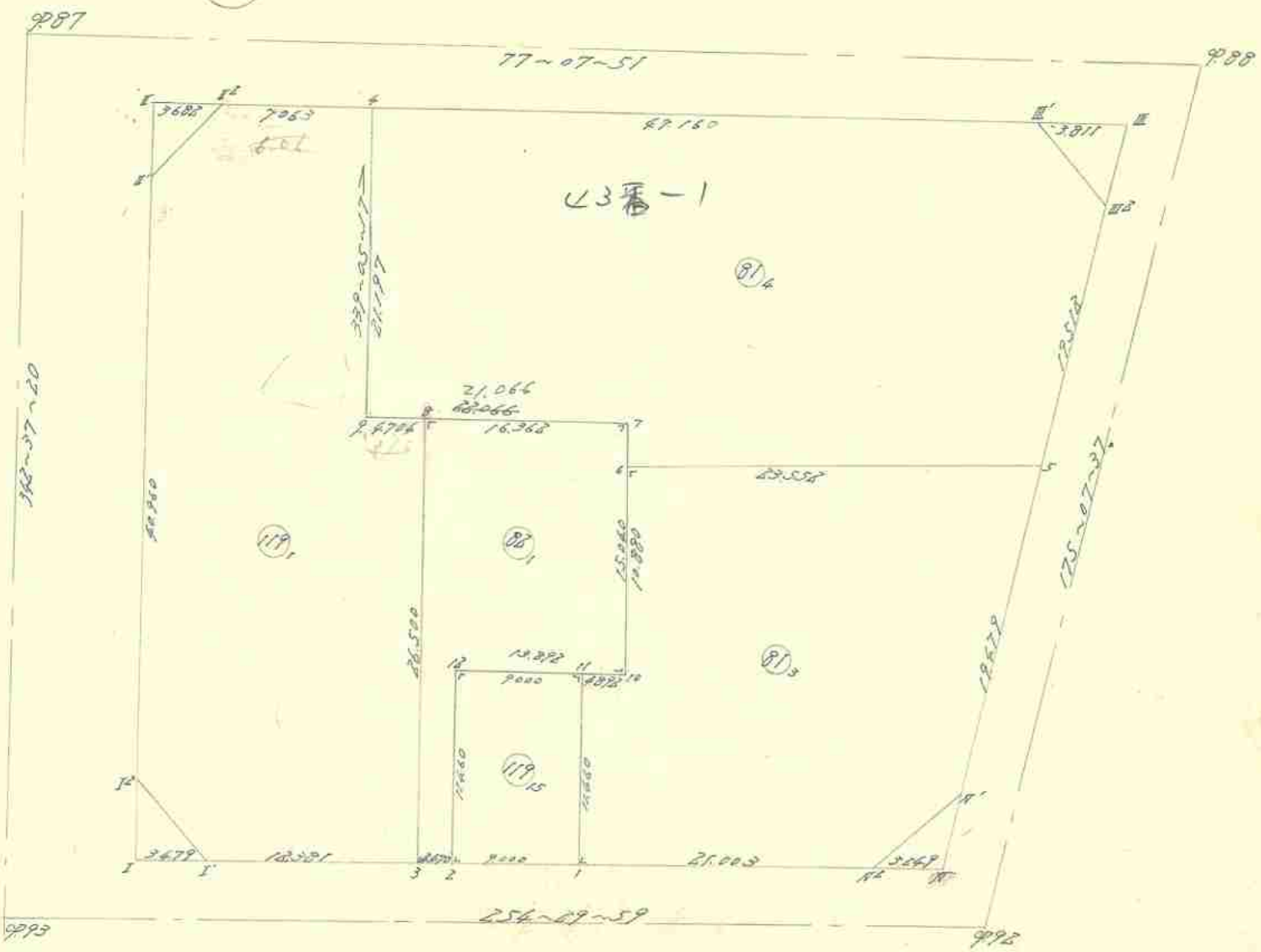
測量No.



象 限	I	+	↗	+	↗
	II	-	↘	+	↘
	III	-	↙	-	↙
	IV	+	↖	-	↖

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	CP94 <sup>IV</sup>	° 1 "		° 1 "	.			.	.	.	.	5701.302	4154.560	CP94 <sup>IV</sup>
CP94 <sup>V</sup>	CP94 <sup>IV2</sup>			252 37 20	3.536			.	.	.	.	5700.246	4151.186	CP94 <sup>IV2</sup>
CP94 <sup>IV</sup>	CP95 <sup>IV</sup>			"	114.667			.	.	.	.	5665.998	4041.753	CP95 <sup>IV</sup>
CP95 <sup>IV</sup>	a71			329 24 36	1.436			.	.	.	.	5667.234	4041.022	a71
a71	a70			339 32 32	19.567			.	.	.	.	5685.567	4034.183	a70
a70	a69			346 50 39	20.993			.	.	.	.	5706.009	4029.405	a69
a69	a68			336 28 29	23.031			.	.	.	.	5727.126	4020.212	a68
a68	a67			341 00 31	13.745			.	.	.	.	5740.123	4015.739	a67
a67	a66			359 07 09	3.252			.	.	.	.	5743.375	4015.689	a66
a66	a65			333 29 08	20.277			.	.	.	.	5761.519	4006.637	a65
a65	CP86 <sup>II</sup>			343 14 26	8.527			.	.	.	.	5769.684	4004.178	CP86 <sup>II</sup>
CP86 <sup>II</sup>	CP85 <sup>III</sup>			72 37 20	119.559			.	.	.	.	5805.393	4118.279	CP85 <sup>III</sup>
CP85 <sup>III'</sup>	CP85 <sup>III</sup>			"	3.536			.	.	.	.	5806.449	4121.654	CP85 <sup>III</sup>
CP85 <sup>III</sup>	CP85 <sup>III2</sup>			162 37 20	3.536			.	.	.	.	5803.074	4122.910	CP85 <sup>III2</sup>
CP85 <sup>III2</sup>	CP94 <sup>IV'</sup>			"	103.103			.	.	.	.	5704.677	4153.504	CP94 <sup>IV'</sup>
CP94 <sup>IV'</sup>	CP94 <sup>IV</sup>			"	3.536			.	.	.	.	5701.302	4154.560	CP94 <sup>IV</sup>
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面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
50											
筆番号	1	5.740.978	-	+ 13.448	4.187.531	-	+ 5.610	61.587		235.757	
①	2	5.738.573	-	⊖ 8.638	4.178.858	-	+ 11.736	100.613			76.515
	10	5.749.616	-	⊖ 13.448	4.175.795	-	⊖ 5.610		110.046		77.931
	11	5.752.021	-	+ 8.638	4.184.468	-	⊖ 11.736		258.438	124.975	

控除シタル値

X=於テ 5.730

y=於テ 4.170

$$\bar{x} = \frac{162200 + 468484 + 360732 + 154446}{28} = \frac{206286}{28} = 7367.357$$

$$s = 103.143$$

31.20 CF 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
50											
筆番号	2	5.738.573	-	+ 11.703	4.178.858	-	⊖ 1.683		5.855	280.695	
②	3	5.737.913	-	⊖ 24.875	4.176.478	-	+ 9.462	74.873			409.890
	8	5.763.448	-	⊖ 29.908	4.169.396	-	⊖ 8.685		290.496		281.016
	7	5.767.821	-	+ 10.120	4.185.163	-	⊖ 19.786		748.326	754.650	
	10	5.753.328	-	+ 18.205	4.189.182	-	+ 9.368	218.537		531.258	
	12	5.749.616	-	+ 14.755	4.175.795	-	+ 10.324	202.516		233.055	

控除シタル値

X=於テ 5.730

y=於テ 4.160

$$\bar{x} = \frac{495926 + 1044677 + 1239658 + 690906}{28} = \frac{548751}{28} = 19600.036$$

$$s = 274.376$$

8300 CF 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
50											
筆番号	3	5.737.913	-	+ 28.843	4.176.478	-	+ 4.848	38.370	,	1052.135	,
①	4	5.734.605	-	+ 918	4.166.567	-	+ 16.322	75.163	,	22.536	,
	1	5.736.995	-	⊖ 41.480	4.160.154	-	+ 16.625	116.292	,	,	836.071
	2	5.776.085	-	⊖ 43.424	4.147.922	-	+ 9.746	449.052	,	,	344.005
	3	5.780.419	-	⊖ 5.967	4.150.412	-	⊖ 9.375	,	472.878	,	61.506
	4	5.781.992	-	+ 18.678	4.157.292	-	⊖ 14.451	,	751.336	315.290	,
	9	5.768.191	-	+ 18.544	4.164.865	-	⊖ 18.099	,	389.479	481.059	,
	8	5.763.448	-	+ 24.278	4.169.396	-	⊖ 11.615	,	388.492	713.876	,

控除シタル値

X=於テ 5.730.-

Y=於テ 4.140.-

$$\bar{x} = \frac{670 \cdot 877 \cdot 2001 \cdot 992 \cdot 2564 \cdot 694 \cdot 1841 \cdot 580}{28} = \frac{1323 \cdot 115}{28} = 47281.071$$

$$28 = \frac{1323 \cdot 115}{28} = 47281.071$$

$$S = 661.557$$

200.12 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
50											
筆番号	9	5.740.697	-	+ 23.514	4.219.625	-	+ 1.200	12.736	,	720.116	,
①	10	5.746.592	-	+ 9.719	4.207.770	-	+ 23.094	152.236	,	269.897	,
	1	5.740.978	-	⊖ 5.429	4.187.531	-	+ 23.302	22.789	,	,	40.886
	11	5.752.021	-	⊖ 12.350	4.184.468	-	⊖ 1.451	,	19.867	,	55.100
	10	5.753.328	-	⊖ 11.791	4.189.182	-	⊖ 1.807	,	24.084	,	108.265
	6	5.763.812	-	⊖ 14.778	4.186.275	-	⊖ 19.788	,	471.192	,	115.282
	5	5.770.106	-	+ 13.115	4.208.970	-	⊖ 24.350	,	733.081	379.962	,

控除シタル値

X=於テ 5.740.-

Y=於テ 4.180.-

$$\bar{x} = \frac{187 \cdot 861 \cdot 1248 \cdot 206 \cdot 1369 \cdot 955 \cdot 309 \cdot 413}{28} = \frac{1060 \cdot 343}{28} = 37858.571$$

$$28 = \frac{1060 \cdot 343}{28} = 37858.571$$

$$S = 530.171$$

160.38 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
50	5	5770.106	-	+25.736	4208.970	-	+21.037	212.600			1517.652	
筆番号	6	5762.812	-	+2.275	4186.275	-	+23.807	90.752			82.888	
81	7	5767.821	-	+1.621	4185.163	-	+21.418	167.463			56.999	
	8	5762.191	-	0 14.171	4164.863	-	+27.866	61.054				210.624
	4	5781.992	-	0 30.305	4157.297	-	0 38.410		844.713			221.136
	4987	5792.496	-	0 7.556	4203.273	-	0 50.015		1625.287			402.531
	4#2	5789.548	-	+22.390	4207.312	-	0 5.697		168.334	1233.216		
			-			-						
			-			-						

控除シタル値

X=於テ 5760.-

y=於テ 4150.-

$$\sum_{i=1}^n = 531.869 \quad 2638.325 \quad 2940.755 \quad 824.297$$

$$\sum_{i=1}^n = 2106.466 \quad 2106.466$$

$$S = 1053.233$$

318.6047 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号			-			-					
			-			-					
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控除シタル値

X=於テ

y=於テ

$$\sum_{i=1}^n =$$

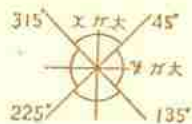
$$\sum_{i=1}^n =$$

$$S =$$

年 月 日

多角点計算用紙

測量No.

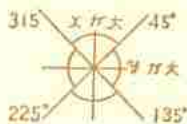


象	I	+	+	+
限	II	-	-	-
	III	-	-	-
	IV	+	+	+

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	992 <sup>N</sup>	"		254°29'59"	.			.	.	.	.	5747.460	4210.901	992 <sup>N</sup>
992 <sup>N</sup>	992 <sup>N</sup>			"	3.249			.	.	.	.	5746.592	4207.770	992 <sup>N</sup>
992 <sup>N</sup>	1			"	21.000			.	.	.	.	5740.978	4187.531	1
1	2	44.854		"	9.000			.	.	.	.	5738.573	4178.858	2
2	3			"	2.470			.	.	.	.	5737.913	4176.478	3
3	993 <sup>I</sup>			"	12.381			.	.	.	.	5736.605	4164.547	993 <sup>I</sup>
993 <sup>I</sup>	993 <sup>I</sup>			"	3.479			.	.	.	.	5733.675	4161.195	993 <sup>I</sup>
993 <sup>I</sup>	993 <sup>I</sup>			342°37'20"	3.479			.	.	.	.	5736.995	4160.156	993 <sup>I</sup>
993 <sup>I</sup>	987 <sup>I</sup>			"	40.960			.	.	.	.	5776.085	4147.922	987 <sup>I</sup>
987 <sup>I</sup>	987 <sup>I</sup>			"	3.682			.	.	.	.	5779.599	4146.822	987 <sup>I</sup>
987 <sup>I</sup>	987 <sup>I</sup>			77°07'51"	3.682			.	.	.	.	5780.419	4150.412	987 <sup>I</sup>
987 <sup>I</sup>	4	54.223		"	7.063			.	.	.	.	5781.992	4157.397	4
4	988 <sup>I</sup>			"	47.160			.	.	.	.	5792.496	4202.273	988 <sup>I</sup>
988 <sup>I</sup>	988 <sup>I</sup>			"	3.811			.	.	.	.	5793.345	4206.988	988 <sup>I</sup>
988 <sup>I</sup>	988 <sup>I</sup>			175°07'37"	3.811			.	.	.	.	5789.548	4207.312	988 <sup>I</sup>
988 <sup>I</sup>	5	38.991		"	19.512			.	.	.	.	5778.106	4208.970	5
5	992 <sup>N</sup>			"	19.479			.	.	.	.	5750.697	4210.625	992 <sup>N</sup>
992 <sup>N</sup>	992 <sup>N</sup>			"	3.249			.	.	.	.	5747.460	4210.901	992 <sup>N</sup>

多角点計算用紙

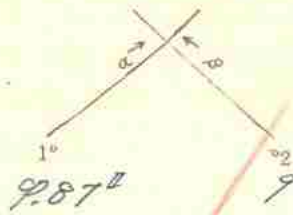
測量No. \_\_\_\_\_



象	I	+	+
限	II	-	+
	III	-	-
	IV	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	993 <sup>I</sup>											5733.675	4164.195	993 <sup>I</sup>
993 <sup>I</sup>	3			74 29 59	15.860	267238	962630	4.238	15.283			5737.913	4176.478	3
3	8			344 29 59	26.500	"	"	25.536			7.088	5763.448	4169.996	8
8	9			254 29 59	4.704	"	"		1.257		4.533	5768.191	4164.863	9
	7			74 29 59	16.362	"	"	4.373	15.767			5767.821	4185.163	7
7	10			164 29 59	15.040	"	"		14.493	4.019		5753.328	4189.182	10
10	11			254 29 59	4.892	"	"		1.307		4.714	5752.021	4184.468	11
11	12				9.000	"	"		8.405		8.673	5749.616	4175.795	12
12	2			164 29 59	11.460	"	"		11.043	3.063		5738.573	4178.858	2
2	1			74 29 59	9.000	"	"	8.405	8.673			5740.978	4187.531	1
	7											5767.821	4185.163	7
7	6			164 29 59	4.160	267238	962630	4.009	1.118			5763.812	4184.275	6
	987 <sup>I</sup>											5779.599	4146.922	987 <sup>I</sup>
987 <sup>I</sup>	4			77 07 51	10.765	222726	974881	2.393	10.475			5781.992	4157.297	4

算出点 4



~~$$\begin{aligned} 9 X_2 &= -51761.10124 \\ 987 X_1 &= -51771.0529 \\ \Delta X &= -2117.1675 \end{aligned}$$~~

~~$$\begin{aligned} \alpha &= 127^\circ - 07' - 51'' \\ \beta &= 214^\circ - 21' - 51'' \\ \beta - \alpha &= 267^\circ - 22' - 08'' \end{aligned}$$~~

~~$$\begin{aligned} \Delta Y \times \textcircled{3} &= +1116.2558 \\ \Delta X \times \textcircled{4} &= +114.72352 \\ E &= 1111.73237 \end{aligned}$$~~

~~$$S_1 = \frac{E}{\textcircled{5}} = 111.17447$$~~

~~$$\begin{aligned} S_1 \times \textcircled{1} &= +112.1616 \\ X_1 &= -51771.0529 \\ X &= -51782.1215 \end{aligned}$$~~

~~$$\begin{aligned} S_1 \times \textcircled{2} &= +111.1450 \\ Y_1 &= -4146.1822 \\ Y &= -4158.1272 \end{aligned}$$~~

$$\begin{aligned} Y_2 &= -4116.1819 \\ Y_1 &= -4146.1822 \\ \Delta Y &= +1117.0177 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= +.1222172161 \textcircled{1} \\ \sin \alpha &= +.11741811 \textcircled{2} \\ \cos \beta &= +.1161316121 \textcircled{3} \\ \sin \beta &= \ominus.1211714131 \textcircled{4} \\ \sin(\beta - \alpha) &= \ominus.1111111111 \textcircled{5} \end{aligned}$$

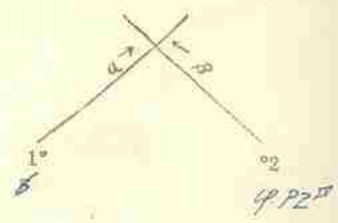
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1131.8134 \\ \Delta X \times \textcircled{2} &= \ominus1171.2312 \\ F &= 121.03451 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 121.01567$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +121.1211 \\ X_2 &= -51761.10124 \\ X &= -51782.1215 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= \ominus111.1450 \\ Y_2 &= -4146.1819 \\ Y &= -4158.1272 \end{aligned}$$

算出点 5



~~$$\begin{aligned} 982 X_2 &= -51747.14610 \\ 6 X_1 &= -51761.18112 \\ \Delta X &= -2117.61352 \end{aligned}$$~~

~~$$\begin{aligned} \alpha &= 174^\circ - 21' - 49'' \\ \beta &= 215^\circ - 07' - 17'' \\ \beta - \alpha &= 281^\circ - 07' - 08'' \end{aligned}$$~~

~~$$\begin{aligned} \Delta Y \times \textcircled{3} &= +122.5361 \\ \Delta X \times \textcircled{4} &= +111.138107 \\ E &= 123.14719 \end{aligned}$$~~

~~$$S_1 = \frac{E}{\textcircled{5}} = 123.15511$$~~

~~$$\begin{aligned} S_1 \times \textcircled{1} &= +111.612194 \\ X_1 &= -51761.18112 \\ X &= -51771.01106 \end{aligned}$$~~

~~$$\begin{aligned} S_1 \times \textcircled{2} &= +1122.1695 \\ Y_1 &= -4146.1275 \\ Y &= -4210.81970 \end{aligned}$$~~

$$\begin{aligned} Y_2 &= -4211.01910 \\ Y_1 &= -4146.1275 \\ \Delta Y &= +1121.61826 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= +.12161721431 \textcircled{1} \\ \sin \alpha &= +.1161316121 \textcircled{2} \\ \cos \beta &= +.1161316121 \textcircled{3} \\ \sin \beta &= \ominus.1211714131 \textcircled{4} \\ \sin(\beta - \alpha) &= \ominus.1111111111 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1116.58113 \\ \Delta X \times \textcircled{2} &= \ominus111.175726 \\ F &= 122.13819 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 122.17212$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +122.1666 \\ X_2 &= -51747.14610 \\ X &= -51771.01106 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= \ominus111.1450 \\ Y_2 &= -4211.01910 \\ Y &= -4210.81970 \end{aligned}$$

$$\begin{array}{r}
 X_2 = 1187.18 \\
 X_1 = 1187.18 \\
 \hline
 \Delta X = 0
 \end{array}
 \qquad
 \begin{array}{r}
 Y_2 = 297.15 \\
 Y_1 = 297.15 \\
 \hline
 \Delta Y = 0
 \end{array}$$

$$\begin{array}{r}
 \text{Log}\Delta y \quad | \cdot | | | | | | | | | | \\
 \text{Log}\Delta X \quad | \cdot | | | | | | | | | | \\
 \hline
 \text{LogtanB} \quad | \cdot | | | | | | | | | | \\
 B \quad | | | | ^\circ - | | | | ' - | | | | "
 \end{array}$$

$$\begin{array}{r}
 \text{Log}\Delta y \quad | \cdot | | | | | | | | | | \\
 \text{LogsinB} \quad | \cdot | | | | | | | | | | \\
 \hline
 \text{Log D} \quad | \cdot | | | | | | | | | | \\
 \Delta x_2 = | | | | \cdot | | | | | | | | | | \\
 \Delta y_2 = | | | | \cdot | | | | | | | | | | \\
 \hline
 D_2 = | | | | \cdot | | | | | | | | | | \\
 D = | | | | \cdot | | | | | | | | | |
 \end{array}$$

距離 = 1187.15  
方位角 a = 90° - 05' - 17"

$\Delta X$	$\Delta Y$	Bの象限	Xヲ出スニハ
+	+	I	B
-	+	II	$180^\circ - B$
-	-	III	$180^\circ + B$
+	-	IV	$360^\circ - B$

$$\begin{array}{r}
 X_2 = | | | | \cdot | | | | | | | | | | \\
 X_1 = | | | | \cdot | | | | | | | | | | \\
 \hline
 \Delta X = - - - | | | | \cdot | | | | | | | | | |
 \end{array}
 \qquad
 \begin{array}{r}
 Y_2 = | | | | \cdot | | | | | | | | | | \\
 Y_1 = | | | | \cdot | | | | | | | | | | \\
 \hline
 \Delta Y = - - - | | | | \cdot | | | | | | | | | |
 \end{array}$$

$$\begin{array}{r}
 \text{Log}\Delta y \quad | \cdot | | | | | | | | | | \\
 \text{Log}\Delta X \quad | \cdot | | | | | | | | | | \\
 \hline
 \text{LogtanB} \quad | \cdot | | | | | | | | | | \\
 B \quad | | | | ^\circ - | | | | ' - | | | | "
 \end{array}$$

$$\begin{array}{r}
 \text{Log}\Delta y \quad | \cdot | | | | | | | | | | \\
 \text{LogsinB} \quad | \cdot | | | | | | | | | | \\
 \hline
 \text{Log D} \quad | \cdot | | | | | | | | | | \\
 \Delta x_2 = | | | | \cdot | | | | | | | | | | \\
 \Delta y_2 = | | | | \cdot | | | | | | | | | | \\
 \hline
 D_2 = | | | | \cdot | | | | | | | | | | \\
 D = | | | | \cdot | | | | | | | | | |
 \end{array}$$

距離 = | | | | K | | | |  
方位角 a = | | | | ^\circ - | | | | ' - | | | | "

$$\begin{array}{r}
 X_2 = | | | | \cdot | | | | | | | | | | \\
 X_1 = | | | | \cdot | | | | | | | | | | \\
 \hline
 \Delta X = - - - | | | | \cdot | | | | | | | | | |
 \end{array}
 \qquad
 \begin{array}{r}
 Y_2 = | | | | \cdot | | | | | | | | | | \\
 Y_1 = | | | | \cdot | | | | | | | | | | \\
 \hline
 \Delta y = - - - | | | | \cdot | | | | | | | | | |
 \end{array}$$

$$\begin{array}{r}
 \text{Log}\Delta y \quad | \cdot | | | | | | | | | | \\
 \text{Log}\Delta X \quad | \cdot | | | | | | | | | | \\
 \hline
 \text{LogtanB} \quad | \cdot | | | | | | | | | | \\
 B \quad | | | | ^\circ - | | | | ' - | | | | "
 \end{array}$$

$$\begin{array}{r}
 \text{Log}\Delta y \quad | \cdot | | | | | | | | | | \\
 \text{LogsinB} \quad | \cdot | | | | | | | | | | \\
 \hline
 \text{Log D} \quad | \cdot | | | | | | | | | | \\
 \Delta x_2 = | | | | \cdot | | | | | | | | | | \\
 \Delta y_2 = | | | | \cdot | | | | | | | | | | \\
 \hline
 D_2 = | | | | \cdot | | | | | | | | | | \\
 D = | | | | \cdot | | | | | | | | | |
 \end{array}$$

距離 = | | | | K | | | |  
方位角 a = | | | | ^\circ - | | | | ' - | | | | "

$$\begin{array}{r}
 X_2 = | | | | \cdot | | | | | | | | | | \\
 X_1 = | | | | \cdot | | | | | | | | | | \\
 \hline
 \Delta X = - - - | | | | \cdot | | | | | | | | | |
 \end{array}
 \qquad
 \begin{array}{r}
 Y_2 = | | | | \cdot | | | | | | | | | | \\
 Y_1 = | | | | \cdot | | | | | | | | | | \\
 \hline
 \Delta Y = - - - | | | | \cdot | | | | | | | | | |
 \end{array}$$

$$\begin{array}{r}
 \text{Log}\Delta y \quad | \cdot | | | | | | | | | | \\
 \text{Log}\Delta X \quad | \cdot | | | | | | | | | | \\
 \hline
 \text{LogtanB} \quad | \cdot | | | | | | | | | | \\
 B \quad | | | | ^\circ - | | | | ' - | | | | "
 \end{array}$$

$$\begin{array}{r}
 \text{Log}\Delta y \quad | \cdot | | | | | | | | | | \\
 \text{LogsinB} \quad | \cdot | | | | | | | | | | \\
 \hline
 \text{Log D} \quad | \cdot | | | | | | | | | | \\
 \Delta x_2 = | | | | \cdot | | | | | | | | | | \\
 \Delta y_2 = | | | | \cdot | | | | | | | | | | \\
 \hline
 D_2 = | | | | \cdot | | | | | | | | | | \\
 D = | | | | \cdot | | | | | | | | | |
 \end{array}$$

距離 = | | | | K | | | |  
方位角 a = | | | | ^\circ - | | | | ' - | | | | "

51

41番





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
51	990 <sup>ア</sup>	5,761,701	-	10,290,4309,163	-	-	1,25,906	303,126			600,787	
筆番号	1	5,755,735	-	11,597,4285,767	-	-	1,28,242	161,968				414,790
⑩/16	10	5,773,298	-	24,934,4280,921	-	-	2,21,866		509,434			770,904
	7	5,780,669	-	7,273,4307,633	-	-	9,30,752		943,133	419,165		
	990 <sup>ア</sup>	5,766,025	-	18,968,4311,673	-	-	1,15,530		24,512	1169,813		

控除シタル値

X=於テ 5,750

y=於テ 4,250

$$\bar{x} = \frac{465,094,1477,085,2197,765,1185,774}{25} = 18,603,767,111,991$$

$$\bar{y} = \frac{1011,991}{25} = 40,479,640,400$$

$$S = 505,990$$

153.06<sup>ア</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
51	7	5,780,667	-	1,25,203,4307,633	-	-	1,21,791	662,265			1,452,524	
筆番号	10	5,773,298	-	10,464,4280,921	-	-	1,31,632	726,962				323,557
⑧/1	8	5,791,131	-	25,203,4276,001	-	-	2,21,791		296,286			655,303
	6	5,798,501	-	10,464,4302,712	-	-	2,21,632		1,534,184	551,538		

控除シタル値

X=於テ 5,750

y=於テ 4,250

$$\bar{x} = \frac{14,05,227,2630,470,2004,102,970,860}{25} = 56,209,089,121,624$$

$$\bar{y} = \frac{1025,243}{25} = 41,010,532,400$$

$$S = 512,621$$

155.07<sup>ア</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
51											
筆番号	11	5,765.654	-	19,288,4283.030	-	7,6523	102,111			1,598,992	
⑩12	12	5,762.619	-	13,188,4272.031	-	7,15,475	195,279				949,945
	13	5,778.842	-	19,288,4267.555	-	9,6,523		188,136			1,300,974
	9	5,781.877	-	13,188,4278.554	-	9,15,475		493,297	1035,970		

控除シタル値

X=於テ 5,750

y=於テ 4,200

$$\sum = 297,390,601,433,2634,962,2250,919$$

$$2S = 384,942,384,043$$

$$S = 192,021$$

50.09年 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
51											
筆番号	1	5,755.735	-	12,739,4285.767	-	7,8,321	47,721			1,092,526	
⑩11	2	5,752.915	-	6,804,4274.709	-	7,13,736	40,040				514,297
	12	5,762.619	-	12,739,4272.031	-	9,8,321		105,003			917,603
	11	5,765.654	-	6,884,4283.030	-	9,13,736		215,023	571,579		

控除シタル値

X=於テ 5,750

y=於テ 4,200

$$\sum = 27,761,320,026,1664,165,1471,900$$

$$2S = 232,265,232,265$$

$$S = 116,132$$

25.13年 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
51											
筆番号	2	5,752,915	-	7 26,936,427.6	709	-	0 3,201			9,331	934,922
⑧	991	5,751,906	-	7 2,754,270.756		-	7 30,925	52,943			24,702
	3	5,750,161	-	0 19,269,424.3	784	-	7 28,815	4,640			75,184
	15	5,771,775	-	0 28,681,424.1	941	-	0 23,771		17,614		55,670
	13	5,778,842	-	7 18,860,426.7	555	-	9 32,768		945,075	519,690	

控除シタル値

X = 於テ 5,750

y = 於テ 4,240

$$\Sigma = \frac{63 \ 583 \ 1472 \ 040 \ 1539 \ 314 \ 130 \ 854}{25 = \frac{1408 \ 457}{S = 704 \ 230}}$$

$$25 = \frac{1408 \ 457}{S = 704 \ 230}$$

$$S = 704 \ 230$$

年 月 日

212.03

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
51											
筆番号	14	5,776,515	-	+ 31,777	4,259,120	-	+ 9,719	257,699			925,346
②	15	5,771,775	-	9 24,252	4,241,941	-	+ 19,650	427,879			289,593
	4	5,800,767	-	9 31,777	4,239,470	-	0 9,719		493,404		300,928
	5	5,803,552	-	+ 24,252	4,251,660	-	9 19,650		1,052,297	525,298	

控除シタル値

X = 於テ 5,750

y = 於テ 4,230

$$\Sigma = \frac{685 \ 578 \ 1545 \ 707 \ 1450 \ 644 \ 590 \ 521}{25 = \frac{860 \ 123}{S = 430 \ 061}}$$

$$25 = \frac{860 \ 123}{S = 430 \ 061}$$

$$S = 430 \ 061$$

年 月 日

130.08

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
51	3	5750.161	-	+ 52.122	4243.784	-	+ 19.137	959.931	,	2282.110	,
筆番号	992 <sup>1</sup>	5748.645	-	⊖ 1.765	4220.333	-	+ 27.261	1325.138	,	,	35.481
①	992 <sup>2</sup>	5751.906	-	⊖ 42.749	4216.543	-	+ 7.158	371.563	,	,	707.197
	988 <sup>1</sup>	5791.394	-	⊖ 63.527	4213.175	-	+ .419	38.294	,	,	573.468
	988 <sup>2</sup>	5795.433	-	⊖ 9.373	4216.124	-	⊖ 26.295	,	2509.411	,	151.130
	4	5800.767	-	+ 45.272	4239.470	-	⊖ 27.666	,	2787.215	1786.886	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,

控除シタル値

X = 於テ 5700

Y = 於テ 4200

$\bar{Z} = 2694.906$   $5296.626$   $4068.996$   $1467.876$

$2S = 2601.720$   $2601.720$

S = 1300.860

393.51<sup>年</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
51	6	5798.501	-	+ 19.759	4302.712	-	+ 23.294	1129.782	,	1061.536	,
筆番号	8	5791.131	-	+ 16.624	4276.001	-	+ 24.158	993.643	,	632.261	,
①	9	5781.877	-	+ 14.616	4278.554	-	+ 16.881	538.116	,	617.345	,
	14	5776.515	-	⊖ 21.675	4259.120	-	+ 26.894	713.094	,	,	197.676
	5	5803.552	-	⊖ 36.939	4251.660	-	⊖ 35.883	,	1921.606	,	61.319
	989 <sup>1</sup>	5813.454	-	⊖ 7.338	4295.003	-	⊖ 47.635	,	3022.631	,	330.232
	989 <sup>2</sup>	5810.890	-	+ 14.953	4299.295	-	⊖ 7.709	,	469.401	737.108	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,

控除シタル値

X = 於テ 5750

Y = 於テ 4250

$\bar{Z} = 3374.635$   $5413.638$   $2628.230$   $589.227$

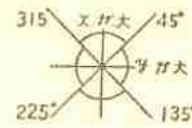
$2S = 2039.003$   $2039.003$

S = 1019.501

308.60<sup>年</sup> 年 月 日

多角点計算用紙

測量No.



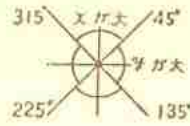
象 限	I	+	↗	+	↗
	II	+	↘	+	↘
	III	-	↙	-	↙
	IV	-	↖	-	↖

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	990 <sup>N</sup>	111		111	.			.	.	.	.	5762.583	4312.623	990 <sup>N</sup>
990 <sup>N</sup>	990 <sup>N</sup>			255 41 41	3.571			.	.	.	.	5761.701	4309.163	990 <sup>N</sup>
990 <sup>N</sup>	1			"	24.146			.	.	.	.	5755.735	4285.767	1
1	2	39.636		"	11.413			.	.	.	.	5752.915	4276.709	2
2	991 <sup>N</sup>			"	4.079			.	.	.	.	5751.906	4270.756	991 <sup>N</sup>
991 <sup>N</sup>	3	50.529		266 17 57	27.029			.	.	.	.	5750.161	4263.786	3
3	992 <sup>I</sup>			"	23.500			.	.	.	.	5748.665	4220.333	992 <sup>I</sup>
992 <sup>I</sup>	992 <sup>I</sup>			"	3.500			.	.	.	.	5748.419	4216.860	992 <sup>I</sup>
992 <sup>I</sup>	992 <sup>I</sup>			355 07 37	3.500			.	.	.	.	5751.906	4216.543	992 <sup>I</sup>
992 <sup>I</sup>	988 <sup>II</sup>			"	39.631			.	.	.	.	5791.396	4213.175	988 <sup>II</sup>
988 <sup>II</sup>	988 <sup>II</sup>			"	3.313			.	.	.	.	5796.695	4212.894	988 <sup>II</sup>
988 <sup>II</sup>	988 <sup>II</sup>			77 07 51	3.313			.	.	.	.	5795.633	4216.126	988 <sup>II</sup>
988 <sup>II</sup>	4			"	23.947			.	.	.	.	5800.767	4239.470	4
4	5	80.912		"	12.505			.	.	.	.	5813.552	4251.660	5
5	989 <sup>III</sup>			"	44.460			.	.	.	.	5813.456	4295.003	989 <sup>III</sup>
989 <sup>III</sup>	989 <sup>III</sup>			"	3.459			.	.	.	.	5816.276	4298.375	989 <sup>III</sup>
989 <sup>III</sup>	989 <sup>III</sup>			164 34 31	3.459			.	.	.	.	5812.890	4299.295	989 <sup>III</sup>
989 <sup>III</sup>	6			"	12.851			.	.	.	.	5798.501	4302.712	6
6	7	46.540		"	18.500			.	.	.	.	5780.667	4307.633	7
7	990 <sup>N</sup>			"	15.189			.	.	.	.	5766.025	4311.673	990 <sup>N</sup>
990 <sup>N</sup>	990 <sup>N</sup>			"	3.571			.	.	.	.	5762.583	4312.623	990 <sup>N</sup>

協和建設測量

多角点計算用紙

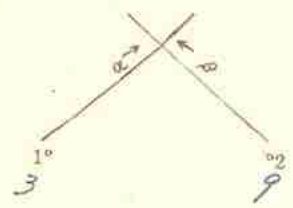
測量No. \_\_\_\_\_



象 限	I	+	-	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

測点	規点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	992 <sup>I</sup>	° 1 "		° 1 "	.			.	.	.	.	5748.419	4216.840	992 <sup>I</sup>
992 <sup>I</sup>	3			86 17 57	27.000	064532	997916	1.742	.	26.946	.	5750.161	4243.784	3
	990 <sup>II</sup>				.			.	.	.	.	5762.583	4312.623	990 <sup>II</sup>
990 <sup>II</sup>	7			344 34 31	18.760	265977	963979	18.084	.	.	4.990	5780.667	4307.633	7
7	6			"	18.500	"	"	17.834	.	.	4.921	5798.501	4302.712	6
6	8			254 34 31	27.710	"	"	.	7.370	.	26.712	5791.131	4276.001	8
8	9	12.500		164 34 31	9.600	"	"	.	9.254	2.553	.	5781.877	4278.554	9
9	10	14.830		"	8.900	"	"	.	8.579	2.367	.	5773.298	4280.921	10
10	11			"	7.920	"	"	.	7.642	2.409	.	5765.654	4283.030	11
11	12			254 34 31	11.410	"	"	.	3.035	.	10.999	5762.619	4272.031	12
	9				.			.	.	.	.	5781.877	4278.554	9
9	13			254 34 31	11.410	265977	963979	.	3.035	.	10.999	5778.842	4267.555	13
13	14			"	8.750	"	"	.	2.327	.	8.435	5776.515	4259.120	14

算出点 15



$$\begin{aligned} X_2 &= -517811.1877 \\ X_1 &= -517501.1161 \\ \Delta X &= -11311.0716 \end{aligned}$$

$$\begin{aligned} \alpha &= 325^\circ - 27' - 37'' \\ \beta &= 254^\circ - 36' - 37'' \\ \beta - \alpha &= 179^\circ - 26' - 54'' \end{aligned}$$

$$\begin{aligned} Y_2 &= -42781.1554 \\ Y_1 &= -42413.1784 \\ \Delta Y &= -1368.0770 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= +0.199631851 \quad \textcircled{1} \\ \text{Sin } \alpha &= 0.018661418 \quad \textcircled{2} \\ \text{Cos } \beta &= 0.1816519721 \quad \textcircled{3} \\ \text{Sin } \beta &= 0.1963191811 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.1981310191 \quad \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0.119.26785 \\ \Delta X \times \textcircled{4} &= 0.1180.57368 \\ E &= 1181.32577 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 7.134.64437 \\ \Delta X \times \textcircled{2} &= 0.112.69421 \\ F &= 137.33852 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 121.06926$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 137.198108$$

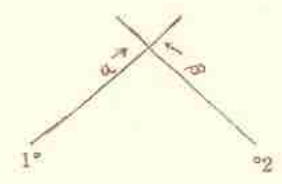
$$\begin{aligned} S_1 \times \textcircled{1} &= +1121.1616 \\ X_1 &= -517501.1161 \\ X &= -517711.1775 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0.1110.1702 \\ X_2 &= -517811.1877 \\ X &= -517711.1775 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0.1111.1843 \\ Y_1 &= -42413.1784 \\ Y &= -42411.1961 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.1176.1613 \\ Y_2 &= -42781.1554 \\ Y &= -42411.1961 \end{aligned}$$

算出点



$$\begin{aligned} X_2 &= - \\ X_1 &= - \\ \Delta X &= - \end{aligned}$$

$$\begin{aligned} \alpha &= \\ \beta &= \\ \beta - \alpha &= \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= - \\ \Delta X \times \textcircled{4} &= - \\ E &= \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| =$$

$$\begin{aligned} S_1 \times \textcircled{1} &= - \\ X_1 &= - \\ X &= - \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= - \\ Y_1 &= - \\ Y &= - \end{aligned}$$

$$\begin{aligned} Y_2 &= - \\ Y_1 &= - \\ \Delta Y &= - \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= - \\ \text{Sin } \alpha &= - \\ \text{Cos } \beta &= - \\ \text{Sin } \beta &= - \\ \text{Sin}(\beta - \alpha) &= - \end{aligned}$$

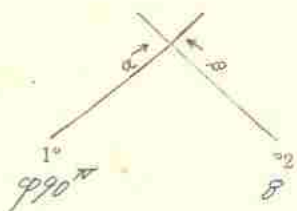
$$\begin{aligned} \Delta Y \times \textcircled{1} &= - \\ \Delta X \times \textcircled{2} &= - \\ F &= \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| =$$

$$\begin{aligned} S_2 \times \textcircled{3} &= - \\ X_2 &= - \\ X &= - \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= - \\ Y_2 &= - \\ Y &= - \end{aligned}$$

算出点 /



$$\begin{aligned} X_2 &= -5791.0137 \\ X_1 &= -5762.01513 \end{aligned}$$

$$\Delta X = -1.128.548$$

$$\alpha = 255^\circ - 41' - 42''$$

$$\beta = 164^\circ - 34' - 37''$$

$$\beta - \alpha = 188^\circ - 52' - 50''$$

$$\Delta Y \times \textcircled{3} = +1.35.30297$$

$$\Delta X \times \textcircled{4} = +1.17.59297$$

$$E = 1.27.70894$$

$$S_1 = \frac{E}{\textcircled{5}} = 1.71.7152$$

$$S_1 \times \textcircled{1} = 0 \quad 1.16.848$$

$$X_1 = -5762.01513 (+)$$

$$X = -5757.01513$$

$$S_1 \times \textcircled{2} = 0 \quad 1.16.848$$

$$Y_1 = -4276.10101 (+)$$

$$Y = -4261.10101$$

$$Y_2 = -4276.10101$$

$$Y_1 = -4276.10101 (-)$$

$$\Delta Y = -2.127.61.622$$

$$\text{Cos} \alpha = 9.124710881 \textcircled{1}$$

$$\text{Sin} \alpha = 9.196819193 \textcircled{2}$$

$$\text{Cos} \beta = 9.196319811 \textcircled{3}$$

$$\text{sin} \beta = 7.126519721 \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = -1.199918019 \textcircled{5}$$

$$\Delta Y \times \textcircled{1} = +1.19.06886$$

$$\Delta X \times \textcircled{2} = 0.127.66281 (-)$$

$$F = 1.26.71167$$

$$S_2 = \frac{F}{\textcircled{5}} = 1.26.71167$$

$$S_2 \times \textcircled{3} = 0 \quad 1.17.13166$$

$$X_2 = -5791.0137 (+)$$

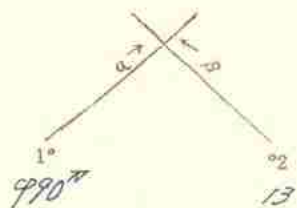
$$X = -5757.0137$$

$$S_2 \times \textcircled{4} = +1.19.766$$

$$Y_2 = -4276.10101 (+)$$

$$Y = -4261.10101$$

算出点 2



$$X_2 = -5778.0862$$

$$X_1 = -5762.01513 (-)$$

$$\Delta X = -1.176.07119$$

$$\alpha = 255^\circ - 41' - 42''$$

$$\beta = 164^\circ - 34' - 37''$$

$$\beta - \alpha = 188^\circ - 52' - 50''$$

$$\Delta Y \times \textcircled{3} = +1.42.46670$$

$$\Delta X \times \textcircled{4} = +1.16.32646 (-)$$

$$E = 1.29.72026$$

$$S_1 = \frac{E}{\textcircled{5}} = 1.99.12177$$

$$S_1 \times \textcircled{1} = 0 \quad 1.19.16168$$

$$X_1 = -5762.01513 (+)$$

$$X = -5757.01513$$

$$S_1 \times \textcircled{2} = 0 \quad 1.17.13166$$

$$Y_1 = -4276.10101 (+)$$

$$Y = -4276.10101$$

$$Y_2 = -4267.01513$$

$$Y_1 = -4276.10101 (-)$$

$$\Delta Y = -2.165.088$$

$$\text{Cos} \alpha = 9.124710881 \textcircled{1}$$

$$\text{Sin} \alpha = 9.196819193 \textcircled{2}$$

$$\text{Cos} \beta = 9.196319811 \textcircled{3}$$

$$\text{sin} \beta = 7.126519721 \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = -1.199918019 \textcircled{5}$$

$$\Delta Y \times \textcircled{1} = +1.11.12576$$

$$\Delta X \times \textcircled{2} = 0.115.75286 (-)$$

$$F = 1.26.89062$$

$$S_2 = \frac{F}{\textcircled{5}} = 1.26.89062$$

$$S_2 \times \textcircled{3} = 0 \quad 1.12.19217$$

$$X_2 = -5778.0862 (+)$$

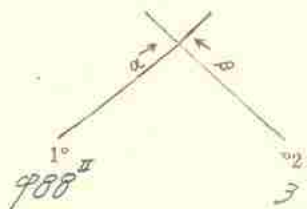
$$X = -5757.0862$$

$$S_2 \times \textcircled{4} = +1.17.13166$$

$$Y_2 = -4267.01513 (+)$$

$$Y = -4276.01513$$

算出点 4



$$\begin{aligned} \frac{3}{988''} X_2 &= -577501.1761 \\ \frac{3}{988''} X_1 &= -577961.6195 \\ \Delta X &= -0.14210534 \end{aligned}$$

$$\alpha = 177^\circ - 07' - 51''$$

$$\beta = 225^\circ - 07' - 37''$$

$$\beta - \alpha = 277^\circ - 59' - 46''$$

$$\begin{aligned} Y_2 &= -42443.1786 \\ Y_1 &= -42121.8194 \\ \Delta Y &= -1.1210890 \end{aligned}$$

$$\text{Cos } \alpha = + \cdot 121217261 \text{ ①}$$

$$\text{Sin } \alpha = + \cdot 19714881 \text{ ②}$$

$$\text{Cos } \beta = + \cdot 19631881 \text{ ③}$$

$$\text{Sin } \beta = 9 \cdot 101849148 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 199101178 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= + 1291.177033 \\ \Delta X \times \text{④} &= + 1.191.178307 \\ E &= 128.191926 \end{aligned}$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = 177.1216103$$

$$\begin{aligned} S_1 \times \text{①} &= + 1.1161.1072 \\ X_1 &= -577961.6195 (+) \\ X &= -578010.17617 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + 1.1261.1576 \\ Y_1 &= -42121.8194 (+) \\ Y &= -421319.14710 \end{aligned}$$

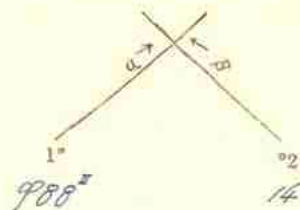
$$\begin{aligned} \Delta Y \times \text{①} &= + 1.1161.88801 \\ \Delta X \times \text{②} &= 9.143.121535 \\ F &= 1151.191916 \end{aligned}$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = 150.178191$$

$$\begin{aligned} S_2 \times \text{③} &= + 1.111.16105 \\ X_2 &= -577501.1761 (+) \\ X &= -578010.17617 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 9.1.141.1314 \\ Y_2 &= -42443.1786 (+) \\ Y &= -421319.14710 \end{aligned}$$

算出点 5



$$\begin{aligned} \frac{14}{988''} X_2 &= -577761.15115 \\ \frac{14}{988''} X_1 &= -577961.6195 \\ \Delta X &= -0.1181180 \end{aligned}$$

$$\alpha = 177^\circ - 07' - 51''$$

$$\beta = 134^\circ - 36' - 37''$$

$$\beta - \alpha = 287^\circ - 26' - 40''$$

$$\begin{aligned} Y_2 &= -42519.11210 \\ Y_1 &= -42121.8194 \\ \Delta Y &= -1.1461.2926 \end{aligned}$$

$$\text{Cos } \alpha = + \cdot 121217261 \text{ ①}$$

$$\text{Sin } \alpha = + \cdot 19714881 \text{ ②}$$

$$\text{Cos } \beta = + \cdot 19631881 \text{ ③}$$

$$\text{Sin } \beta = 9 \cdot 101849148 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 199191010 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= + 146.156099 \\ \Delta X \times \text{④} &= + 1.11.1.183537 \\ E &= 1199.1721402 \end{aligned}$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = 139.176512$$

$$\begin{aligned} S_1 \times \text{①} &= + 1.1181.1857 \\ X_1 &= -577961.6195 (+) \\ X &= -578010.17617 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + 1.1318.1716 \\ Y_1 &= -42121.8194 (+) \\ Y &= -421319.14710 \end{aligned}$$

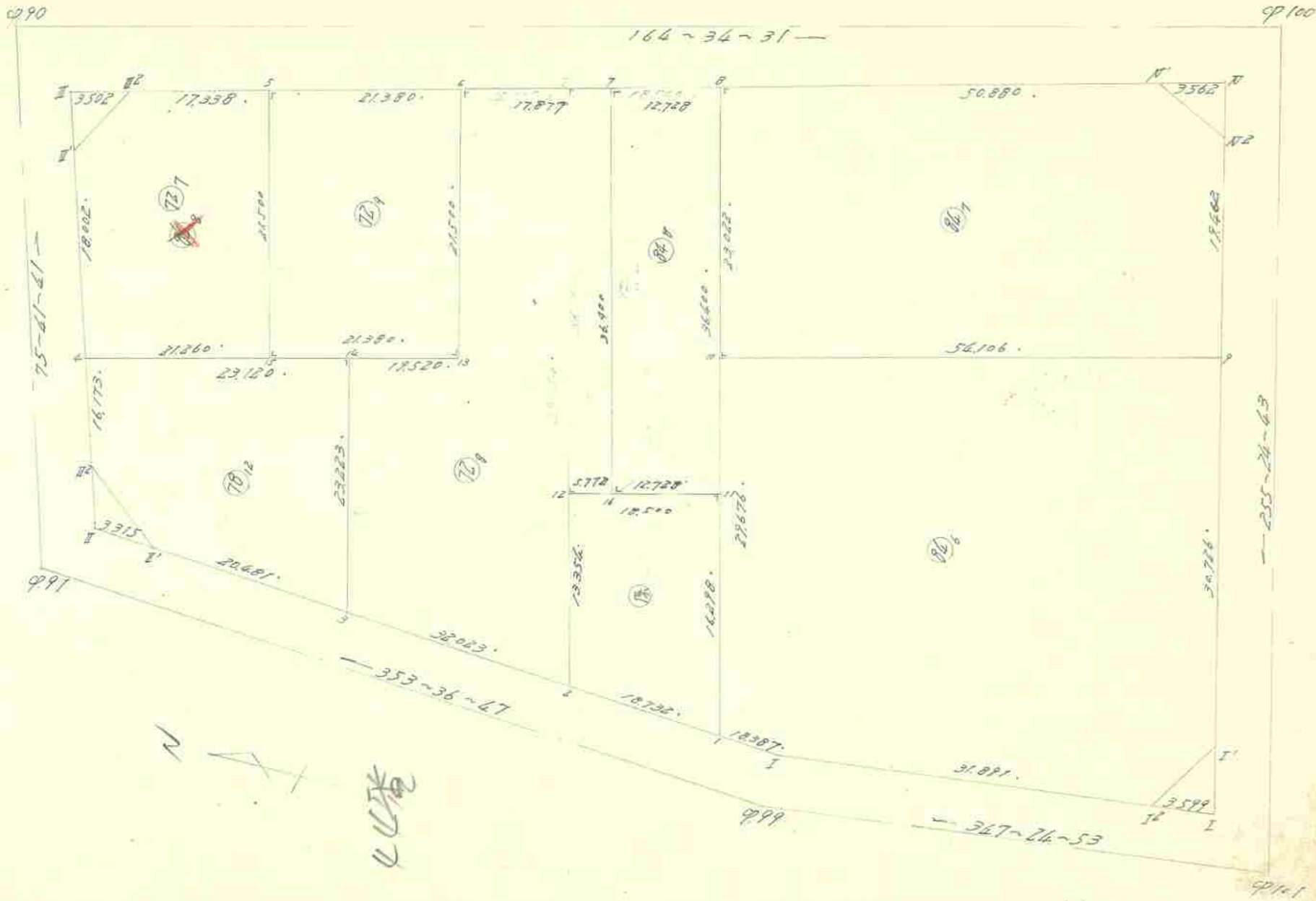
$$\begin{aligned} \Delta Y \times \text{①} &= + 1.110.199573 \\ \Delta X \times \text{②} &= 9.1.17.172334 \\ F &= 1281.104710 \end{aligned}$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = 1281.104710$$

$$\begin{aligned} S_2 \times \text{③} &= + 1.1217.10317 \\ X_2 &= -577761.15115 (+) \\ X &= -578010.17617 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 9.1.17.1466 \\ Y_2 &= -42519.11210 (+) \\ Y &= -421319.14710 \end{aligned}$$

52



407



面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy+Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	9101 <sup>1</sup>	5,623.183	-	0	33,730	4,291.785	-	+ 11,216	35,701		3,095,700
846	999 <sup>1</sup>	5,654.307	-	0	49,397	4,284.836	-	+ 8,994	308,557		4,190,644
	7	5,672.580	-	0	26,166	4,282.791	-	0	26,561	1396,577	2,166,309
	10	5,680.473	-	+	44,264	4,311.397	-	0	42,997	2600,158	4,930,980
	9	5,628.315	-	+	49,896	4,325.788	-	+ 15,345	127,594	7534,198	
	9101 <sup>1</sup>	5,620.577	-	+	5,132	4,296.052	-	+ 34,003	19,620	492,939	

控除シタル値

X = 於テ 5,620

y = 於テ 4,210

$$\Sigma = 491,472,3996,725,12958,125,9452,861$$

$$2S = 2505,263$$

$$2505,264$$

$$S = 1752,632$$

570.171<sup>19</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy+Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	9	5,628.315	-	0	47,256	4,325.788	-	+ 33,225	276,266		746,078
847	10	5,680.473	-	0	58,281	4,311.397	-	0	7,802	471,810	81,419
	8	5,686.596	-	+	42,925	4,333.590	-	0	35,725	2379,142	1,012,601
	9100 <sup>1</sup>	5,637.548	-	+	53,379	4,347.122	-	0	11,032	193,590	1,981,535
	9100 <sup>2</sup>	5,633.217	-	+	9,233	4,344.622	-	+	21,334	281,971	319,665

控除シタル値

X = 於テ 5,620

y = 於テ 4,310

$$\Sigma = 558,237, 2064,542, 2312,801, 827,497$$

$$2S = 2486,305$$

$$2486,304$$

$$S = 1243,152$$

376.05<sup>19</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	11	5676.915	-	⊖ 10.789	4298.501	-	+ 38.474	2259.428			912.925
⑧	16	5689.185	-	⊖ 12.271	4295.116	-	⊖ 31.793		2827.498		2574.760
	7	5698.865	-	+ 10.680	4338.864	-	⊖ 38.474		2803.734	1018.910	
	8	5686.596	-	+ 12.269	4333.590	-	+ 31.703	2745.353		3170.525	

控除シクル値

X = 於テ 5.600

y = 於テ 4.200

Σ = 5704.581    6521.164    6784.502    3378.750

2S = 926.583

S = 463.291

263/629 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	1	5672.580	-	⊖ 14.281	4282.791	-	+ 17.794	1291.489			1182.338
⑧	2	5691.196	-	⊖ 22.168	4280.707	-	⊖ 10.789		983.916		1789.113
	12	5694.748	-	+ 14.281	4293.580	-	⊖ 17.794		1685.946	1336.416	
	11	5676.915	-	+ 22.168	4298.501	-	+ 10.789	829.836		2183.570	

控除シクル値

X = 於テ 5.600

y = 於テ 4.200

Σ = 2121.325    2469.860    3519.986    2971.451

2S = 548.535

S = 274.268

82.9719 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	13	5710.379	-	9 16.891	4304.723	-	126.413	274.141			814.880
	15	5730.989	-	0 26.329	4299.036	-	0 15.039		466.064		1291.069
709	5	5736.708	-	+ 16.891	4319.762	-	0 26.413		969.568	1038.826	
	6	5716.098	-	+ 26.329	4325.449	-	+ 15.039	242.098		1986.497	

控除シタル値

X = 於テ 5700

y = 於テ 4250

$$\Sigma = \frac{516.239}{28} = 18.4371$$

$$\Sigma = \frac{1435.612}{28} = 51.2719$$

$$S = 459.687$$

13905 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	2	5691.796	-	0 18.571	4280.707	-	+ 26.425	184.006			392.698
	3	5723.019	-	9 38.060	4277.145	-	0 18.824		809.790		271.510
708	14	5729.196	-	+ 12.640	4299.531	-	0 27.578		1256.787	373.278	
	13	5710.379	-	+ 13.098	4304.723	-	9 25.918		787.353	454.802	
	6	5716.098	-	+ 11.514	4325.449	-	0 25.481		919.813	638.440	
	7	5698.865	-	+ 26.913	4330.804	-	+ 30.333	578.238		1680.270	
	16	5689.185	-	+ 4.117	4295.116	-	+ 36.624	226.391		103.403	
	12	5694.748	-	0 2.011	4293.580	-	+ 14.209	212.504			47.219

控除シタル値

X = 於テ 5680

y = 於テ 4270

$$\Sigma = \frac{1454.133}{28} = 51.9333$$

$$\Sigma = \frac{2568.567}{28} = 91.7346$$

$$S = 1084.280$$

288.49 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	3	5,723.019	-	0 14.178	4,277.145	-	+ 24.664	74.461	,	,	101.202
	991 <sup>1</sup>	5,743.374	-	0 24.468	4,274.867	-	0 565	,	13.206	,	119.086
	991 <sup>2</sup>	5,747.487	-	0 8.109	4,277.710	-	0 18.515	,	508.922	,	62.520
	4	5,751.483	-	+ 18.291	4,293.382	-	9 21.821	,	686.991	427.680	,
	14	5,729.196	-	+ 28.464	4,299.531	-	+ 16.237	149.315	,	840.570	,

控除シタル値  $\Sigma = 223.776$   $1209.119$   $1268.250$   $282.908$   
 $X = \text{於テ } 5,720$   $2S = 985.343$   $985.342$   
 $y = \text{於テ } 4,270$   $S = 492.671$   
149.037 年 月 日

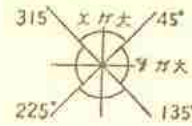
面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	15	5,730.989	-	0 14.775	4,299.036	-	+ 26.380	817.690	,	,	724.507
	4	5,751.483	-	0 24.943	4,293.382	-	0 11.790	,	606.985	,	1082.077
	990 <sup>1</sup>	5,755.932	-	0 1.938	4,310.826	-	0 21.768	,	1217.528	,	117.881
	990 <sup>2</sup>	5,753.421	-	+ 19.224	4,315.150	-	0 8.936	,	477.370	1252.444	,
	5	5,736.708	-	+ 22.432	4,319.762	-	+ 16.114	591.513	,	1,564.901	,

控除シタル値  $\Sigma = 1449.003$   $2301.883$   $2817.365$   $1926.465$   
 $X = \text{於テ } 5,700$   $2S = 892.880$   $892.880$   
 $y = \text{於テ } 4,250$   $S = 446.440$   
135.057 年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



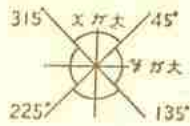
象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	9101 <sup>I</sup>	0 1 "		0 1 "	.			.	.	.	.	5619.670	4292.569	9101 <sup>I</sup>
9101 <sup>I</sup>	9101 <sup>I</sup>			347 24 53	3 599			.	.	.	.	5623.183	4291.785	9101 <sup>I</sup>
9101 <sup>I</sup>	999 <sup>I</sup>			"	31.891			.	.	.	.	5656.307	4286.836	999 <sup>I</sup>
999 <sup>I</sup>	1			253 36 47	18 387			.	.	.	.	5672.580	4282.791	1
1	2	89 623		"	18.732			.	.	.	.	5691.196	4280.707	2
2	3			"	32.023			.	.	.	.	5723.019	4277.145	3
3	991 <sup>II</sup>			"	20.481			.	.	.	.	5743.374	4276.867	991 <sup>II</sup>
991 <sup>II</sup>	991 <sup>II</sup>			"	3.315			.	.	.	.	5746.668	4276.498	991 <sup>II</sup>
991 <sup>II</sup>	991 <sup>II</sup>			75 41 41	3.315			.	.	.	.	5747.487	4276.710	991 <sup>II</sup>
991 <sup>II</sup>	4	34.175		"	16.173			.	.	.	.	5751.483	4293.382	4
4	990 <sup>III</sup>			"	18.002			.	.	.	.	5755.932	4310.826	990 <sup>III</sup>
990 <sup>III</sup>	990 <sup>III</sup>			"	3.502			.	.	.	.	5756.797	4316.219	990 <sup>III</sup>
990 <sup>III</sup>	990 <sup>III</sup>			164 34 31	3.502			.	.	.	.	5753.421	4315.150	990 <sup>III</sup>
990 <sup>III</sup>	5			"	17.338			.	.	.	.	5736.708	4319.762	5
5	6			"	21.380			.	.	.	.	5716.098	4325.669	6
6	7	120.203		"	12.465			.	.	.	.	5704.429	4322.669	7
7	8			"	18.550			.	.	.	.	5686.596	4333.590	8
8	9100 <sup>IV</sup>			"	50.880			.	.	.	.	5637.548	4347.122	9100 <sup>IV</sup>
9100 <sup>IV</sup>	9100 <sup>IV</sup>			"	3.562			.	.	.	.	5636.116	4348.069	9100 <sup>IV</sup>
9100 <sup>IV</sup>	9100 <sup>IV</sup>			255 26 43	3.562			.	.	.	.	5633.217	4346.422	9100 <sup>IV</sup>
9100 <sup>IV</sup>	9	50.188		"	19.462			.	.	.	.	5628.315	4325.788	9
9	9101 <sup>I</sup>			"	30.726			.	.	.	.	5622.577	4296.052	9101 <sup>I</sup>
9101 <sup>I</sup>	9101 <sup>I</sup>			"	3.599			.	.	.	.	5619.670	4292.569	9101 <sup>I</sup>

協和建設測量

多角点計算用紙

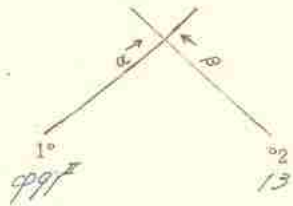
測量No.



象	I	+	/	+	/
限	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	990 <sup>III</sup>	° 1 "		° 1 "	.			.	.	.	.	5756.797	4314.219	990 <sup>III</sup>
990 <sup>III</sup>	5			164 34 31	20.840	265977	963979	20.089	5.563	.	.	5756.708	4319.762	5
5	6			.	21.380	"	"	20.610	5.687	.	.	5716.098	4325.449	6
6	13			254 34 31	21.500	"	"	5.719	.	20.726	5710.379	4304.723	13	
13	14			344 34 31	19.520	.	.	18.817	.	.	5.192	5729.196	4299.531	14
14	15			"	1.860	"	"	1.793	.	.	.495	5730.989	4299.036	15
	6			.	.			.	.	.	.	5716.098	4325.449	6
6	7			164 34 31	17.877	265977	963979	17.233	4.755	.	.	5498.865	4330.504	7
7	8			"	12.728	"	"	12.270	3.395	.	.	5686.596	4333.590	8
8	10			254 34 31	23.022	.	"	6.123	.	22.193	5680.473	4311.397	10	
10	11			"	13.378	"	"	3.558	.	12.896	5676.915	4298.501	11	
11	12			344 34 31	18.500	"	"	17.833	.	4.921	5694.748	4293.580	12	
12	16			"	12.728	"	"	12.270	.	3.385	5689.105	4295.116	16	

算出点 4



$$\begin{aligned} X_2 &= -57761.1379 \\ X_1 &= -57461.1668 \\ \Delta X &= -2149.9711 \end{aligned}$$

$$\alpha = 125^\circ - 41' - 41''$$

$$\beta = 544^\circ - 34' - 31''$$

$$\beta - \alpha = 419^\circ - 52' - 50''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +1479.13633 \\ \Delta X \times \textcircled{4} &= +1119.165186 \\ E &= 1119.165186 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 119.14882$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +1141.815 \\ X_1 &= -57461.1668 \\ X &= -57575.1483 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +1118.184 \\ Y_1 &= -42741.498 \\ Y &= -42913.1382 \end{aligned}$$

$$\begin{aligned} Y_2 &= -43041.1723 \\ Y_1 &= -42741.498 \\ \Delta Y &= -299.6743 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.24171088 \textcircled{1} \\ \text{Sin} \alpha &= +0.968993 \textcircled{2} \\ \text{Cos} \beta &= +0.19631981 \textcircled{3} \\ \text{Sin} \beta &= 0.98159721 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.19191809 \textcircled{5} \end{aligned}$$

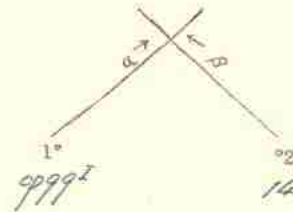
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1117.126823 \\ \Delta X \times \textcircled{2} &= 0.135.16379 \\ F &= 142.16379 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 142.16402$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +1421.106 \\ X_2 &= -57710.1379 \\ X &= -57575.1483 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.117.134 \\ Y_2 &= -43041.1723 \\ Y &= -42913.1382 \end{aligned}$$

算出点 3



$$\begin{aligned} X_2 &= -57219.1196 \\ X_1 &= -5654.1317 \\ \Delta X &= -51665.9879 \end{aligned}$$

$$\alpha = 125^\circ - 36' - 47''$$

$$\beta = 125^\circ - 34' - 31''$$

$$\beta - \alpha = 180^\circ - 27' - 44''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0.113.190846 \\ \Delta X \times \textcircled{4} &= 0.172.19157 \\ E &= 168.188317 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 169.11415$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +1681.1712 \\ X_1 &= -5654.1317 \\ X &= -51721.1019 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0.117.1619 \\ Y_1 &= -42841.1836 \\ Y &= -42777.1145 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42919.1531 \\ Y_1 &= -42841.1836 \\ \Delta Y &= -77.9695 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.19191913 \textcircled{1} \\ \text{Sin} \alpha &= 0.11112461 \textcircled{2} \\ \text{Cos} \beta &= 0.12651972 \textcircled{3} \\ \text{Sin} \beta &= 0.19631981 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.19191913 \textcircled{5} \end{aligned}$$

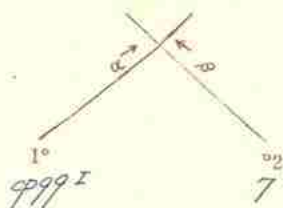
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +112.160379 \\ \Delta X \times \textcircled{2} &= 0.118.133080 \\ F &= 112.160379 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 123.12229$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0.116.1177 \\ X_2 &= -57219.1196 \\ X &= -51721.1019 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.122.1318 \\ Y_2 &= -42919.1531 \\ Y &= -42777.1145 \end{aligned}$$

算出点 2



$$\begin{aligned} X_2 &= -57061.429 \\ 9999^2 X_1 &= -56541.3107 \\ \Delta X &= -11510.1222 \end{aligned}$$

$$\alpha = 125^\circ - 36' - 42''$$

$$\beta = 125^\circ - 54' - 37''$$

$$\beta - \alpha = 180^\circ - 57' - 44''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 91111.65835 \\ \Delta X \times \textcircled{4} &= 9148.37666 \\ E &= 137.03501 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 137.03501$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 137.03501 \\ X_1 &= -56541.3107 (+) \\ X &= -56191.1196 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 91141.129 \\ Y_1 &= -42841.836 (+) \\ Y &= -42801.707 \end{aligned}$$

$$\begin{aligned} Y_2 &= -43281.6169 \\ Y_1 &= -42841.836 \\ \Delta Y &= -439.7809 \end{aligned}$$

$$\text{Cos} \alpha = + 0.91617191 \textcircled{1}$$

$$\text{Sin} \alpha = 9.01111111111 \textcircled{2}$$

$$\text{Cos} \beta = 9.0121619721 \textcircled{3}$$

$$\text{sin} \beta = 9.0196191811 \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = -0.19875851 \textcircled{5}$$

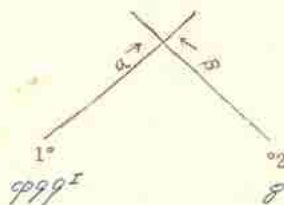
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 143.056093 \\ \Delta X \times \textcircled{2} &= 91111.65835 \\ F &= 149.12860 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 149.12860$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 91113.0233 \\ X_2 &= -57061.429 (+) \\ X &= -56191.1196 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9147.1962 \\ Y_2 &= -42841.836 (+) \\ Y &= -42801.707 \end{aligned}$$

算出点 1



$$\begin{aligned} X_2 &= -16161.5196 \\ 9999^2 X_1 &= -16541.3107 \\ \Delta X &= -11510.1222 \end{aligned}$$

$$\alpha = 125^\circ - 36' - 42''$$

$$\beta = 125^\circ - 54' - 37''$$

$$\beta - \alpha = 180^\circ - 57' - 44''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 91112.196720 \\ \Delta X \times \textcircled{4} &= 9148.37666 \\ E &= 118.12878 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 118.12878$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 118.12878 \\ X_1 &= -16541.3107 (+) \\ X &= -16161.5196 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 91111.0145 \\ Y_1 &= -42841.836 (+) \\ Y &= -42841.836 \end{aligned}$$

$$\begin{aligned} Y_2 &= -43281.6169 \\ Y_1 &= -42841.836 \\ \Delta Y &= -439.7809 \end{aligned}$$

$$\text{Cos} \alpha = + 0.91617191 \textcircled{1}$$

$$\text{Sin} \alpha = 9.01111111111 \textcircled{2}$$

$$\text{Cos} \beta = 9.0121619721 \textcircled{3}$$

$$\text{sin} \beta = 9.0196191811 \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = -0.19875851 \textcircled{5}$$

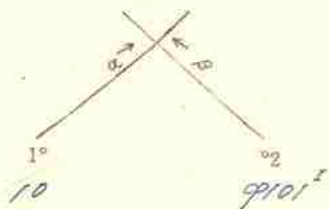
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 142.056093 \\ \Delta X \times \textcircled{2} &= 91111.65835 \\ F &= 118.12878 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 118.12878$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 91111.0145 \\ X_2 &= -16161.5196 (+) \\ X &= -16161.5196 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 91111.0145 \\ Y_2 &= -42841.836 (+) \\ Y &= -42841.836 \end{aligned}$$

算出点 9



$$\begin{aligned} \frac{9101}{10} X_2 &= -516191.1670 \\ X_1 &= -516101.473 \\ \Delta X &= -916101.803 \end{aligned}$$

$$\alpha = 164^\circ - 36' - 31''$$

$$\beta = 175^\circ - 24' - 43''$$

$$\beta - \alpha = 10^\circ - 50' - 12''$$

$$\begin{aligned} \Delta Y \times ③ &= 0114.76217 \\ \Delta X \times ④ &= 9151.84483 \\ E &= 1181.10166 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1181.10166$$

$$\begin{aligned} S_1 \times ① &= 91111.11111 \\ X_1 &= -516101.473 (+) \\ X &= -516101.473 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 11111.11111 \\ Y_1 &= -516101.473 (+) \\ Y &= -516101.473 \end{aligned}$$

$$\begin{aligned} Y_2 &= -421912.5169 \\ Y_1 &= -421111.3197 \\ \Delta Y &= -91118.8228 \end{aligned}$$

$$\begin{aligned} \text{Cosa} &= 9.191631811 \text{ ①} \\ \text{Sina} &= +.121615172 \text{ ②} \\ \text{Cos}\beta &= 7.121518168 \text{ ③} \\ \text{sin}\beta &= +.191617162 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -.191618191 \text{ ⑤} \end{aligned}$$

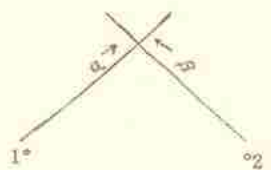
$$\begin{aligned} \Delta Y \times ① &= 11118.11111 \\ \Delta X \times ② &= 9116.11111 \\ F &= 11118.11111 \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = 11118.11111$$

$$\begin{aligned} S_2 \times ③ &= 11111.11111 \\ X_2 &= -516191.1670 (+) \\ X &= -516191.1670 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 11111.11111 \\ Y_2 &= -421111.3197 (+) \\ Y &= -421111.3197 \end{aligned}$$

算出点  



$$\begin{aligned} X_2 &= - \\ X_1 &= - \\ \Delta X &= - \end{aligned}$$

$$\alpha = \text{ }^\circ - \text{ }' - \text{ }''$$

$$\beta = \text{ }^\circ - \text{ }' - \text{ }''$$

$$\beta - \alpha = \text{ }^\circ - \text{ }' - \text{ }''$$

$$\begin{aligned} \Delta Y \times ③ &= - \\ \Delta X \times ④ &= - \\ E &= \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = \text{ }$$

$$\begin{aligned} S_1 \times ① &= - \\ X_1 &= - (+) \\ X &= - \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= - \\ Y_1 &= - (+) \\ Y &= - \end{aligned}$$

$$\begin{aligned} Y_2 &= - \\ Y_1 &= - \\ \Delta Y &= - \end{aligned}$$

$$\text{Cosa} = - \text{ } \text{ ①}$$

$$\text{Sina} = - \text{ } \text{ ②}$$

$$\text{Cos}\beta = - \text{ } \text{ ③}$$

$$\text{sin}\beta = - \text{ } \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \text{ } \text{ ⑤}$$

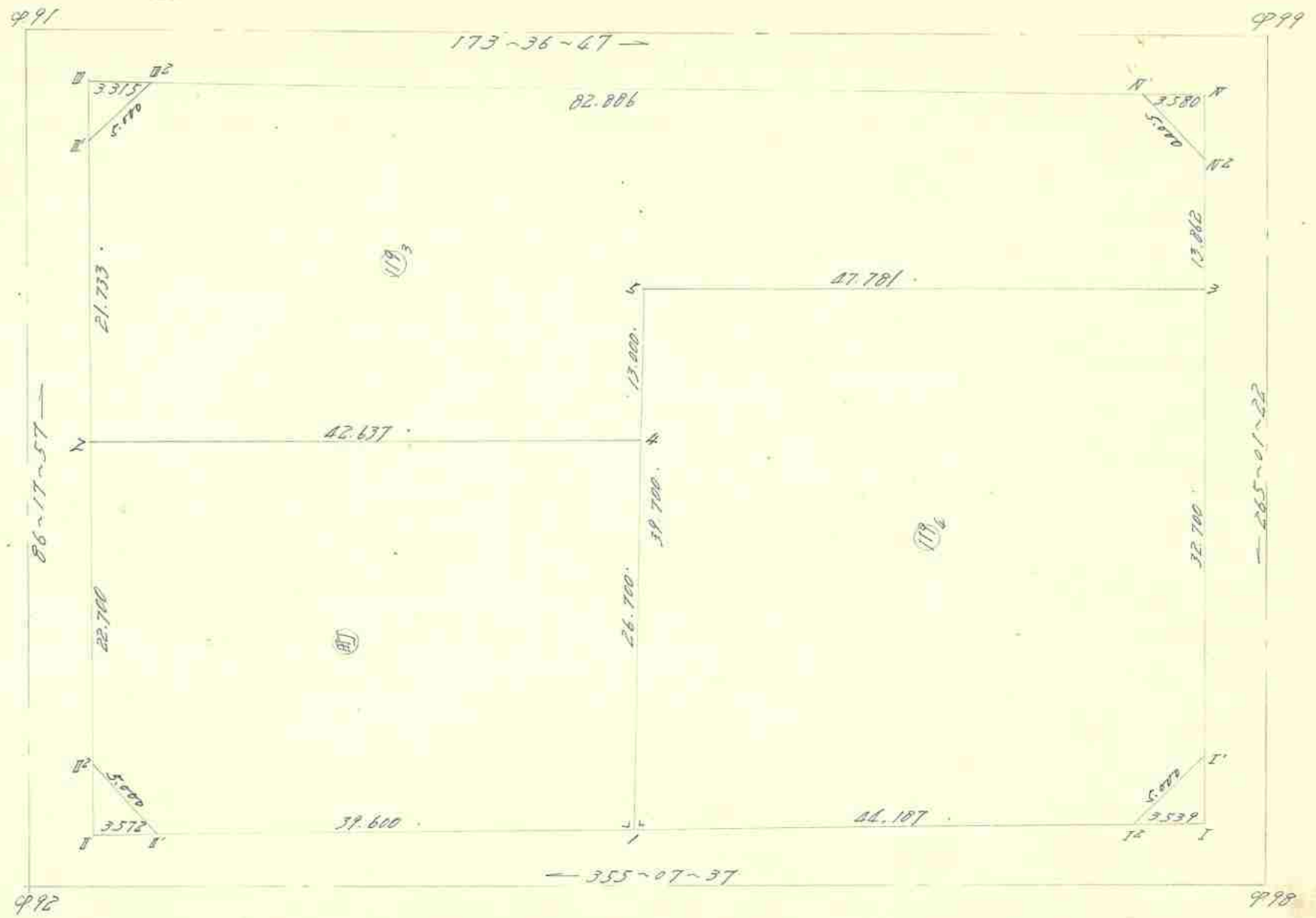
$$\begin{aligned} \Delta Y \times ① &= - \\ \Delta X \times ② &= - \\ F &= \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = \text{ }$$

$$\begin{aligned} S_2 \times ③ &= - \\ X_2 &= - (+) \\ X &= - \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= - \\ Y_2 &= - (+) \\ Y &= - \end{aligned}$$

53



4557



面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
53 筆番号 119-4	4998 I <sub>2</sub>	5655.396	-	⊕ 47.266	4224.771	-	+	7.502	420.012		1170.391
	1	5699.423	-	⊕ 47.379	4221.016	-	⊖	35.802	3559.542		996.137
	5	5702.795	-	+	44.409	4260.573	-	⊖	40.159	4120.104	2689.986
	3	5655.014	-	+	30.610	4261.175	-	+	31.975	1759.073	3096.556
	4998 L <sub>1</sub>	5652.177	-	⊖	302	4228.598	-	+	76.404	1899.452	

控除シクル値

X=於テ 5.600

y=於テ 4.200

$\bar{z} = 4070 \quad 5377687 \quad 686 \quad 5706 \quad 5422177 \quad 392$

$2S = 3609.149 \quad 3609.150$

S = 1804.575

年 月 日

545.08坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
53 筆番号 街	1	5699.423	-	⊕ 37.189	4221.016	-	+	29.967	2979.409		781.564
	4992 II <sub>1</sub>	5738.880	-	⊕ 43.267	4217.653	-	+	101	14.027		763.439
	4992 II <sub>2</sub>	5742.670	-	⊖	5.255	4220.915	-	⊖	25.915	3697.293	109.908
	2	5744.135	-	+	40.979	4243.568	-	⊖	26.705	3869.125	1785.373
	4	5701.691	-	+	46.712	4247.620	-	+	22.532	2293.335	2129.195

控除シクル値

X=於テ 5.600

y=於テ 4.200

$\bar{z} = 3286 \quad 7717506 \quad 4103910 \quad 3581650 \quad 911$

$2S = 2259.647 \quad 2259.647$

S = 1129.823

年 月 日

341.77坪

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
53	筆番号	2	5744.135	-	⊖ 23.846	4243.568	-	⊖ 17.635	2541.821	1910.283	
119-3	999I	5745.537	-	+	1.678	4265.255	-	⊖ 25.364	3691.400	109.498	
	" II <sub>2</sub>	5742.457	-	+	25.151	4268.932	-	⊖ 12.897	1837.268	5890.308	
	999III	5660.086	-	+	26.240	4278.152	-	⊖ 6.052	363.640	6739.828	
	" II <sub>2</sub>	5656.717	-	+	5.072	4274.984	-	+	16.977	954.396	380.319
	3	5655.014	-	⊖	46.578	4261.175	-	+	14.211	792.807	2849.109
	5	5702.795	-	⊖	46.677	4260.573	-	+	13.555	1393.386	2827.366
	4	5701.691	-	⊖	41.340	4247.620	-	+	17.005	1729.255	1968.611
				-	-	-	-	-	-	-	-

控除シクル値

X=於テ 5.600

y=於テ 4.200

$\Sigma = 4869.044 \quad 0434 \quad 12913.119 \quad 9.53 \quad 9.555 \quad 869$

$\Sigma = 3564.285 \quad 3.560.284$

S= 1782.142

539.10 坪

年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号		.	-	-	.	-	-	.	.	.	.
		.	.	-	.	-	-	.	.	.	.
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控除シクル値

X=於テ

y=於テ

$\Sigma =$

$\Sigma =$

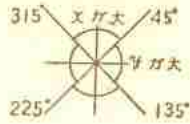
$\Sigma =$

年 月 日

53

多角点計算用紙

測量No. \_\_\_\_\_



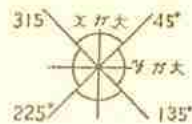
象 限	I	+	↗	+	↗
	II	+	↘	-	↘
	III	-	↙	-	↙
	IV	-	↖	+	↖

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	9998 I	0	0	0	.	.	.	.	.	.	.	5651.870	4225.072	9998 I
9998 I	9998 I <sub>2</sub>			355 07 37	3.539	084934	996387	.	.	.	.	5656.396	4224.771	9998 I <sub>2</sub>
9998 I <sub>2</sub>	1	83 78 7			.	.	.	.	.	.	.	.	.	1
1	9992 II <sub>1</sub>				.	.	.	.	.	.	.	5738.880	4217.653	9992 II <sub>1</sub>
9992 II <sub>1</sub>	9992 I				3.572	.	.	.	.	.	.	5742.439	4217.350	" II
9992 II	9992 II <sub>2</sub>			86 17 57	3.572	064532	997916	.	.	.	.	5742.670	4220.915	9992 II <sub>2</sub>
9992 II <sub>2</sub>	2	44 43 3			.	.	.	.	.	.	.	.	.	2
2	9991 III <sub>1</sub>				.	.	.	.	.	.	.	5745.537	4265.255	9991 III <sub>1</sub>
9991 III <sub>1</sub>	9991 III				3.315	.	.	.	.	.	.	5745.751	4268.563	III
9991 III	9991 III <sub>2</sub>			173 36 47	3.315	.	.	.	.	.	.	5742.457	4268.932	9991 III <sub>2</sub>
9991 III <sub>2</sub>	9999 IV <sub>1</sub>			"	3.586	.	.	.	.	.	.	5660.086	4278.152	9999 IV <sub>1</sub>
9999 IV <sub>1</sub>	9999 IV			"	3.580	.	.	.	.	.	.	5656.528	4278.650	IV
9999 IV	9999 IV <sub>2</sub>			265 01 27	3.580	086769	996228	.	.	.	.	5656.217	4274.984	9999 IV <sub>2</sub>
9999 IV <sub>2</sub>	3	46 56 2			.	.	.	.	.	.	.	.	.	3
3	9998 I <sub>1</sub>				.	.	.	.	.	.	.	5652.177	4228.598	9998 I <sub>1</sub>
9998 I <sub>1</sub>	9998 I				3.539	.	.	.	.	.	.	5651.870	4225.072	9998 I
1					.	.	.	.	.	.	.	.	.	1
1	4				.	.	.	.	.	.	.	.	.	4
4	5				.	.	.	.	.	.	.	.	.	5

協和建設測量

多角点計算用紙

測量No. \_\_\_\_\_



象	I	+	+	+
限	II	-	-	-
	III	+	+	+
	IV	-	-	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	CP92 <sup>2</sup>											5762.670	4220.915	CP92 <sup>2</sup>
CP92 <sup>2</sup>	2			86 17 57	22.700	0.4532	0.97916	1.465		22.653		5766.135	4247.568	2
	CP92 <sup>1</sup>											5739.880	4217.653	CP92 <sup>1</sup>
CP92 <sup>1</sup>	1			173 07 37	39.600	0.84974	0.996307		39.457	3.363		5699.423	4221.016	1
1	4	90 00 00		85 07 37	26.700			2.268		26.604		5701.691	4247.620	4
	5				39.700			3.372		39.357		5702.795	4260.573	5
	CP98 <sup>1</sup>											5652.177	4228.598	CP98 <sup>1</sup>
CP98 <sup>1</sup>	3			85 01 22	32.700	0.86769	0.996228	2.837		32.577		5635.014	4261.175	3

$\angle X_2 = 157611 \cdot 1694$        $Y_2 = 122271 \cdot 1226$   
 $\angle X_1 = 157611 \cdot 1694$        $Y_1 = 122271 \cdot 1226$   
 $\Delta X = \ominus - 11121 \cdot 1226$        $\Delta Y = \ominus - 11121 \cdot 1226$

Log  $\Delta y$  | . | | | | | | | | | |  
 Log  $\Delta X$  | . | | | | | | | | | |  
 - ) \_\_\_\_\_  
 Log tan B | . | 59' 46" | | | | | | | | | |  
 B | 15° - 27' - 12" | | | | | | | | | |

Log  $\Delta y$  | . | | | | | | | | | |      Log  $\Delta X$  | . | | | | | | | | | |  
 Log sin B | . | | | | | | | | | |      Log cos B | . | | | | | | | | | |  
 - ) \_\_\_\_\_      - ) \_\_\_\_\_  
 Log D | 01.61254721 |      Log D | 01.61254721 |

$\Delta x_2 =$  | | | | | | | | | | | | | | | |  
 $\Delta y_2 =$  | | | | | | | | | | | | | | | |  
 + ) \_\_\_\_\_  
 $D_2 =$  | 1221.61271 |      距離 = 1221.637  
 $D =$  | 1221.61271 |      方位角 a = 174° - 32' - 11"

$\Delta X$	$\Delta Y$	B, 在 a 象限	Xヲ出スニハ
+	+	I	B
-	+	II	180° - B
-	-	III	180° + B
+	-	IV	360° - B

$X_2 =$  | | | | | | | | | | | | | | | |  
 $X_1 =$  | | | | | | | | | | | | | | | |  
 $\Delta X = - - -$  | | | | | | | | | | | | | | | |  
 $\Delta y = - - -$  | | | | | | | | | | | | | | | |

Log  $\Delta y$  | . | | | | | | | | | |  
 Log  $\Delta X$  | . | | | | | | | | | |  
 - ) \_\_\_\_\_  
 Log tan B | . | | | | | | | | | |  
 B | | | ° - | | ' - | | " |

Log  $\Delta y$  | . | | | | | | | | | |      Log  $\Delta X$  | . | | | | | | | | | |  
 Log sin B | . | | | | | | | | | |      Log cos B | . | | | | | | | | | |  
 - ) \_\_\_\_\_      - ) \_\_\_\_\_  
 Log D | . | | | | | | | | | |      Log D | . | | | | | | | | | |

$\Delta x_2 =$  | | | | | | | | | | | | | | | |  
 $\Delta y_2 =$  | | | | | | | | | | | | | | | |  
 + ) \_\_\_\_\_  
 $D_2 =$  | | | | | | | | | |      距離 = | | | K | | | |  
 $D =$  | | | | | | | | | |      方位角 a = | | ° - | | ' - | | "

$\angle X_2 = 157611 \cdot 1694$        $Y_2 = 122271 \cdot 1226$   
 $\angle X_1 = 157611 \cdot 1694$        $Y_1 = 122271 \cdot 1226$   
 $\Delta X = \ominus - 11121 \cdot 1226$        $\Delta Y = \ominus - 11121 \cdot 1226$

Log  $\Delta y$  | . | | | | | | | | | |  
 Log  $\Delta X$  | . | | | | | | | | | |  
 - ) \_\_\_\_\_  
 Log tan B | . | 10' 12.5991 | | | | | | | | | |  
 B | 101° - 43' - 19" | | | | | | | | | |

Log  $\Delta y$  | . | | | | | | | | | |      Log  $\Delta X$  | . | | | | | | | | | |  
 Log sin B | . | | | | | | | | | |      Log cos B | . | | | | | | | | | |  
 - ) \_\_\_\_\_      - ) \_\_\_\_\_  
 Log D | 01.61254721 |      Log D | 01.61254721 |

$\Delta x_2 =$  | | | | | | | | | | | | | | | |  
 $\Delta y_2 =$  | | | | | | | | | | | | | | | |  
 + ) \_\_\_\_\_  
 $D_2 =$  | 1221.61271 |      距離 = 1221.637  
 $D =$  | 1221.61271 |      方位角 a = 174° - 32' - 11"

$X_2 =$  | | | | | | | | | | | | | | | |  
 $X_1 =$  | | | | | | | | | | | | | | | |  
 $\Delta X = - - -$  | | | | | | | | | | | | | | | |  
 $\Delta y = - - -$  | | | | | | | | | | | | | | | |

Log  $\Delta y$  | . | | | | | | | | | |  
 Log  $\Delta X$  | . | | | | | | | | | |  
 - ) \_\_\_\_\_  
 Log tan B | . | | | | | | | | | |  
 B | | | ° - | | ' - | | " |

Log  $\Delta y$  | . | | | | | | | | | |      Log  $\Delta X$  | . | | | | | | | | | |  
 Log sin B | . | | | | | | | | | |      Log cos B | . | | | | | | | | | |  
 - ) \_\_\_\_\_      - ) \_\_\_\_\_  
 Log D | . | | | | | | | | | |      Log D | . | | | | | | | | | |

$\Delta x_2 =$  | | | | | | | | | | | | | | | |  
 $\Delta y_2 =$  | | | | | | | | | | | | | | | |  
 + ) \_\_\_\_\_  
 $D_2 =$  | | | | | | | | | |      距離 = | | | K | | | |  
 $D =$  | | | | | | | | | |      方位角 a = | | ° - | | ' - | | "

54

46 ~~46~~





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
54											
筆番号	998 <sup>+</sup>	5,654.655	-	+ 23.005	4,218.813	-	+ 1.500	21,983	,	892.893	,
⑧	998 <sup>+</sup>	5,650.754	-	+ 7.145	4,215.684	-	+ 27.276	293.326	,	254.962	,
	997 <sup>+</sup>	5,647.510	-	+ .558	4,191.537	-	0.28.365	213.021	,	6.438	,
	997 <sup>+</sup>	5,650.196	-	9 18.582	4,187.319	-	+ 9.193	93.732	,	,	136.002
	1	5,666.092	-	e 23.563	4,182.344	-	9 29.865	,	779.238	,	55.232
	9	5,679.759	-	+ 11.437	4,217.184	-	9 36.469	,	1,231.157	4,225.273	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,

控除シタル値

X = 於テ 5,660

y = 於テ 4,180

$\bar{x} = \frac{622.062}{28} = 22.2165$      $\bar{y} = \frac{2,010.395}{28} = 71.800$      $\bar{xy} = \frac{1,579.566}{28} = 56.4131$      $\bar{x}^2 = \frac{191.234}{28} = 6.830$

28 = 1,388.333

1,388.332

S = 694.166

210.007

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
54											
筆番号	1	5,666.092	-	0 5.290	4,182.344	-	+ 20.383	124.173	,	,	65.300
⑧	2	5,675.238	-	9 13.180	4,179.482	-	9 15.469	,	235.717	,	124.973
	11	5,679.272	-	+ 5.290	4,197.813	-	9 20.383	,	392.821	147.131	,
	10	5,669.948	-	+ 13.180	4,199.865	-	+ 15.469	153.886	,	393.621	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,
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			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,

控除シタル値

X = 於テ 5,660

y = 於テ 4,170

$\bar{x} = \frac{278.059}{28} = 9.931$      $\bar{y} = \frac{628.538}{28} = 22.448$      $\bar{xy} = \frac{540.752}{28} = 19.313$      $\bar{x}^2 = \frac{190.273}{28} = 6.796$

28 = 350.479

350.479

S = 175.240

53.017

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
54											
筆番号	2	5,675.238	-	9.706	4,179.482	-	1,424.668	222.416			92.032
	3	5,693.061	-	26.816	4,173.904	-	635.290		813.823		102.690
70/13	7	5,702.054	-	9.706	4,214.772	-	642.462		1,361.079	436.557	
	8	5,683.355	-	26.816	4,216.366	-	735.290	471.298		1,243.351	

控除シタル値

X = 於テ 5,670

y = 於テ 4,170

$\Sigma = 693.714$   $2,174.900$   $1,677.908$   $196.722$

$\Sigma S = 1,481.186$   $1,481.186$

S = 740.593  
224.03<sup>19</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
54											
筆番号	4	5,716.195	-	6.275	4,166.664	-	1,119.01	192.727			41.817
	993 <sup>1</sup>	5,724.516	-	12.713	4,164.061	-	213	5.222			51.627
81/1	993 <sup>2</sup>	5,728.908	-	6.967	4,166.451	-	207.070		223.228		28.473
	5	5,730.483	-	10.667	4,172.131	-	9.511		289.923	129.401	
	12	5,718.241	-	14.288	4,175.962	-	5.467	99.723		228.065	

控除シタル値

X = 於テ 5,700

y = 於テ 4,160

$\Sigma = 297.682$   $623.211$   $357.466$   $121.937$

$\Sigma S = 225.529$   $225.529$

S = 112.764

7411<sup>19</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
54											
筆番号	10	5669.948	-	9 5.513	4199.865	-	119.371	192.703			54.386
(81)	11	5679.272	-	9 13.407	4197.813	-	916.501		318.007		104.749
	8	5683.355	-	+ 5.513	4216.366	-	919.371		452.410	145.356	
	9	5673.759	-	+ 13.407	4217.184	-	116.501	227.037		364.456	

控除シタル値

X=於テ 5660

y=於テ 4190

$$\bar{x} = \frac{419.740}{28} = 14.9907$$

$$2S = \frac{770.417}{28} = 27.5149$$

$$S = \frac{509.812}{28} = 18.2076$$

175.338  
53.047 年 月 日

印  
日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
52											
筆番号	3	5693.061	-	9 14.141	4173.904	-	148.108	147.259			196.616
(81)	4	5716.195	-	9 33.265	4166.664	-	938.798		1018.314		241.678
	6	5726.326	-	+ 14.141	4212.702	-	948.108		1747.571	745.259	
	7	5702.054	-	+ 33.265	4214.772	-	138.798	467.671		1841.991	

控除シタル値

X=於テ 5690

y=於テ 4160

$$\bar{x} = \frac{614.930}{28} = 21.9618$$

$$2S = \frac{2763.885}{28} = 98.7102$$

$$S = \frac{2567.250}{28} = 91.6875$$

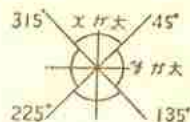
1076.478  
325.037 年 月 日

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多角点計算用紙

測量No. \_\_\_\_\_



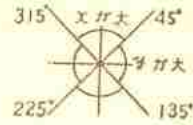
象 限	I	+	+	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	997 <sup>I</sup>											5667.075	6188.296	997 <sup>I</sup>
997 <sup>I</sup>	997 <sup>I</sup>			342 37 20	3.270							5650.196	6187.319	997 <sup>I</sup>
997 <sup>I</sup>	1			"	16.657							5666.092	6182.344	1
1	2			"	9.583							5675.238	6179.482	2
2	3	77.875		"	18.675							5693.061	6173.904	3
3	4			"	24.240							5716.195	6166.664	4
4	993 <sup>II</sup>			"	8.720							5726.516	6166.061	993 <sup>II</sup>
993 <sup>II</sup>	993 <sup>II</sup>			"	3.595							5727.967	6162.987	993 <sup>II</sup>
993 <sup>II</sup>	993 <sup>II</sup>			74 29 59	3.595							5728.908	6166.651	993 <sup>II</sup>
993 <sup>II</sup>	5	62.750		"	5.894							5730.683	6172.131	5
5	992 <sup>III</sup>			"	36.856							5760.332	6207.666	992 <sup>III</sup>
992 <sup>III</sup>	992 <sup>III</sup>			"	3.915							5761.378	6211.419	992 <sup>III</sup>
992 <sup>III</sup>	992 <sup>III</sup>			175 07 37	3.915							5737.477	6211.752	992 <sup>III</sup>
992 <sup>III</sup>	6			"	11.191							5726.326	6212.702	6
6	7			"	24.360							5702.056	6214.772	7
7	8	83.123		"	18.768							5682.355	6216.366	8
8	9			"	9.630							5673.759	6217.186	9
9	998 <sup>IV</sup>			"	19.174							5656.655	6218.813	998 <sup>IV</sup>
998 <sup>IV</sup>	998 <sup>IV</sup>			"	3.453							5651.214	6219.106	998 <sup>IV</sup>
998 <sup>IV</sup>	998 <sup>IV</sup>			262 20 54	3.453							5650.754	6215.686	998 <sup>IV</sup>
998 <sup>IV</sup>	997 <sup>I</sup>			"	24.364							5667.510	6191.537	997 <sup>I</sup>
997 <sup>I</sup>	997 <sup>I</sup>			"	3.270							5667.075	6188.296	997 <sup>I</sup>

協和建設測量

多角点計算用紙

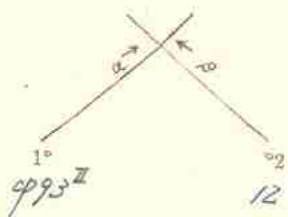
測量No.



象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	998 <sup>正</sup>	° ' "		° ' "	.	.	.	.	.	.	.	5651.214	4219.106	998 <sup>正</sup>
998 <sup>正</sup>	9			355 07 37	22.627	084934	996387	22.545	.	.	1.922	5673.759	4217.184	9
	997 <sup>正</sup>			.	.	.	.	.	.	.	.	5647.075	4188.296	997 <sup>正</sup>
997 <sup>正</sup>	1			342 37 20	19.927	298671	954356	19.017	.	.	5.952	5666.092	4182.344	1
1	2			.	9.583	.	"	9.146	.	.	2.862	5675.238	4179.482	2
2	11			77 35 21	18.770	214920	976632	4.034	.	18.331	.	5672.272	4197.813	11
	2			.	.	.	.	.	.	.	.	5675.238	4179.482	2
2	3			342 37 20	18.675	298671	954356	17.873	.	.	5.578	5693.061	4173.904	3
3	4			.	24.260	.	"	23.134	.	.	7.240	5716.195	4166.864	4
4	12			77 35 21	9.520	214920	976632	2.046	.	9.298	.	5718.241	4175.962	12
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算出点	5
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$$\begin{aligned} 12 X_2 &= -5718.241 \\ 493^2 X_1 &= -5727.947 \end{aligned}$$

$$\Delta X = -9119.706$$

$$\alpha = 174^\circ - 29' - 59''$$

$$\beta = 174^\circ - 27' - 20''$$

$$\beta - \alpha = 48^\circ - 07' - 21''$$

$$\Delta Y \times \textcircled{3} = + 112.38277$$

$$\Delta X \times \textcircled{4} = + 112.89890$$

$$E = 119.28387$$

$$S_1 = \frac{E}{\textcircled{5}} = 119.4890$$

$$S_1 \times \textcircled{1} = + 112.38277$$

$$X_1 = -5727.947 (+)$$

$$X = -57310.483$$

$$S_1 \times \textcircled{2} = + 119.126$$

$$Y_1 = -4162.987 (+)$$

$$Y = -4172.131$$

$$Y_2 = -4175.962$$

$$Y_1 = -4162.987$$

$$\Delta Y = +12.975$$

$$\text{Cos}\alpha = + 0.167243 \textcircled{1}$$

$$\text{Sin}\alpha = + 0.963649 \textcircled{2}$$

$$\text{Cos}\beta = + 0.19563516 \textcircled{3}$$

$$\text{sin}\beta = 0.986711 \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = - 0.1999463 \textcircled{5}$$

$$\Delta Y \times \textcircled{1} = 713.46748$$

$$\Delta X \times \textcircled{2} = 9119.95298$$

$$F = 112.82046$$

$$S_2 = \frac{F}{\textcircled{5}} = 112.8273$$

$$S_2 \times \textcircled{3} = + 112.38277$$

$$X_2 = -5718.241 (+)$$

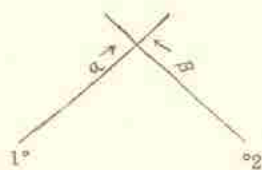
$$X = -57310.483$$

$$S_2 \times \textcircled{4} = 0 119.831$$

$$Y_2 = -4175.962 (+)$$

$$Y = -4172.131$$

算出点	
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$$X_2 = -$$

$$X_1 = -$$

$$\Delta X = -$$

$$\alpha =$$

$$\beta =$$

$$\beta - \alpha =$$

$$\Delta Y \times \textcircled{3} = -$$

$$\Delta X \times \textcircled{4} = -$$

$$E =$$

$$S_1 = \frac{E}{\textcircled{5}} =$$

$$S_1 \times \textcircled{1} = -$$

$$X_1 = -$$

$$X = -$$

$$S_1 \times \textcircled{2} = -$$

$$Y_1 = -$$

$$Y = -$$

$$Y_2 = -$$

$$Y_1 = -$$

$$\Delta Y = -$$

$$\text{Cos}\alpha = -$$

$$\text{Sin}\alpha = -$$

$$\text{Cos}\beta = -$$

$$\text{sin}\beta = -$$

$$\text{Sin}(\beta - \alpha) = -$$

$$\Delta Y \times \textcircled{1} = -$$

$$\Delta X \times \textcircled{2} = -$$

$$F =$$

$$S_2 = \frac{F}{\textcircled{5}} =$$

$$S_2 \times \textcircled{3} = -$$

$$X_2 = -$$

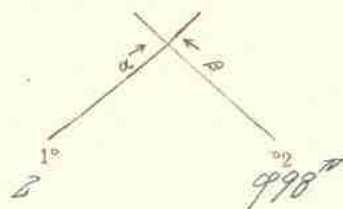
$$X = -$$

$$S_2 \times \textcircled{4} = -$$

$$Y_2 = -$$

$$Y = -$$

算出点 8



$$\begin{aligned} 998^\circ X_2 &= -561511.214 \\ 1^\circ X_1 &= -561751.238 \\ \Delta X &= -0.12410124 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42119.1106 \\ Y_1 &= -4179.482 \\ \Delta Y &= +1.1391624 \end{aligned}$$

$$\alpha = 177^\circ - 35' - 21''$$

$$\text{Cos } \alpha = + \cdot 1214192101 \text{ ①}$$

$$\beta = 125^\circ - 07' - 37''$$

$$\text{Sin } \alpha = + \cdot 19766133 \text{ ②}$$

$$\text{Cos } \beta = + \cdot 199613151 \text{ ③}$$

$$\text{Sin } \beta = + \cdot 161814161 \text{ ④}$$

$$\beta - \alpha = 227^\circ - 32' - 16''$$

$$\text{Sin}(\beta - \alpha) = - \cdot 199113151 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= + 1.139 \cdot 48076 \\ \Delta X \times \text{④} &= + 1.124 \cdot 04079 \\ E &= 1.137 \cdot 43997 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= + 1.139 \cdot 51599 \\ \Delta X \times \text{②} &= - 1.124 \cdot 46861 \\ F &= 1.137 \cdot 97860 \end{aligned}$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = 1.137 \cdot 17863$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = 1.137 \cdot 15173$$

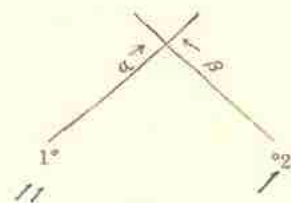
$$\begin{aligned} S_1 \times \text{①} &= + 1.137 \cdot 17863 \\ X_1 &= -561751.238 \\ X &= -561831.355 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= + 1.137 \cdot 15173 \\ X_2 &= -561511.214 \\ X &= -561831.355 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + 1.137 \cdot 17863 \\ Y_1 &= -4179.482 \\ Y &= -42116.1366 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= - 1.137 \cdot 17863 \\ Y_2 &= -42119.1106 \\ Y &= -42116.1366 \end{aligned}$$

算出点 10



$$\begin{aligned} 1^\circ X_2 &= -561661.0192 \\ 11^\circ X_1 &= -56179.272 \\ \Delta X &= -0.11731180 \end{aligned}$$

$$\begin{aligned} Y_2 &= -41821.344 \\ Y_1 &= -4197.8113 \\ \Delta Y &= -0.1150469 \end{aligned}$$

$$\alpha = 167^\circ - 35' - 21''$$

$$\text{Cos } \alpha = - \cdot 1917616131 \text{ ①}$$

$$\beta = 177^\circ - 35' - 21''$$

$$\text{Sin } \alpha = + \cdot 1214192101 \text{ ②}$$

$$\beta - \alpha = 190^\circ - 04' - 09''$$

$$\text{Cos } \beta = + \cdot 1214192101 \text{ ③}$$

$$\text{Sin } \beta = + \cdot 19766133 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 11111111 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 0.1173 \cdot 22460 \\ \Delta X \times \text{④} &= 0.1174 \cdot 87201 \\ E &= 1.119 \cdot 54791 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= + 1.115 \cdot 101752 \\ \Delta X \times \text{②} &= - 1.117 \cdot 83265 \\ F &= 1.117 \cdot 94017 \end{aligned}$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = 1.119 \cdot 11111$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = 1.117 \cdot 11111$$

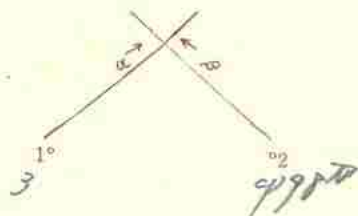
$$\begin{aligned} S_1 \times \text{①} &= - 1.119 \cdot 11111 \\ X_1 &= -56179.272 \\ X &= -561661.0192 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= + 1.117 \cdot 11111 \\ X_2 &= -561661.0192 \\ X &= -561661.0192 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + 1.119 \cdot 11111 \\ Y_1 &= -4197.8113 \\ Y &= -4199.1865 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= + 1.117 \cdot 11111 \\ Y_2 &= -41821.344 \\ Y &= -4199.1865 \end{aligned}$$

算出点 7



$$\begin{aligned} 998^\circ X_2 &= -56511.214 \\ 3 X_1 &= -56931.061 \\ \Delta X &= 0.1421847 \end{aligned}$$

$$\alpha = 177^\circ - 35' - 21''$$

$$\beta = 125^\circ - 67' - 37''$$

$$\beta - \alpha = 277^\circ - 32' - 16''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +145.03860 \\ \Delta X \times \textcircled{4} &= +119.55282 \\ E &= 141.48378 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 141.48454$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +118.993 \\ X_1 &= -56931.061 \\ X &= -5702.054 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +140.868 \\ Y_1 &= -41731.964 \\ Y &= -4214.772 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4219.1106 \\ Y_1 &= -41731.964 \\ \Delta Y &= +145.208 \end{aligned}$$

$$\text{Cos } \alpha = +.121492101 \text{ ①}$$

$$\text{Sin } \alpha = +.97616132 \text{ ②}$$

$$\text{Cos } \beta = +.199613851 \text{ ③}$$

$$\text{Sin } \beta = 9.10849481 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = -.19913519 \text{ ⑤}$$

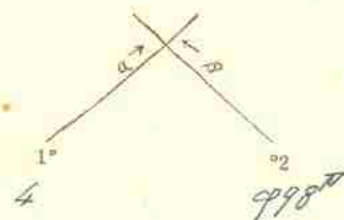
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +119.71481 \\ \Delta X \times \textcircled{2} &= 0.40.86918 \\ F &= 150.58393 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 151.0248$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +150.849 \\ X_2 &= -56511.214 \\ X &= -5702.054 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9.114.334 \\ Y_2 &= -4219.1106 \\ Y &= -4214.772 \end{aligned}$$

算出点 6



$$\begin{aligned} 998^\circ X_2 &= -56511.214 \\ 4 X_1 &= -57161.1195 \\ \Delta X &= -2.154.1981 \end{aligned}$$

$$\alpha = 111^\circ - 1' - 1''$$

$$\beta = 111^\circ - 1' - 1'' \quad \text{E1=101}$$

$$\beta - \alpha = 111^\circ - 1' - 1''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +142.12142 \\ \Delta X \times \textcircled{4} &= +115.52001 \\ E &= 146.73241 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 147.113197$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +110.1131 \\ X_1 &= -57161.1195 \\ X &= -57216.326 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +146.1038 \\ Y_1 &= -41661.1664 \\ Y &= -4214.772 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4219.1106 \\ Y_1 &= -41661.1664 \\ \Delta Y &= -1.154.1448 \end{aligned}$$

$$\text{Cos } \alpha = -.11111111 \text{ ①}$$

$$\text{Sin } \alpha = -.11111111 \text{ ②}$$

$$\text{Cos } \beta = -.11111111 \text{ ③}$$

$$\text{Sin } \beta = -.11111111 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = -.11111111 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= +111.27083 \\ \Delta X \times \textcircled{2} &= 9.161.14825 \\ F &= 171.27325 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 171.3947$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +171.1711 \\ X_2 &= -56511.214 \\ X &= -57216.326 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9.116.16104 \\ Y_2 &= -4219.1106 \\ Y &= -4214.772 \end{aligned}$$

$X_2 = 146166.01012$        $Y_2 = 141812.12146$   
 $X_1 = 146166.01012$        $Y_1 = 141812.12146$   
 $\Delta X = 0$        $\Delta Y = 0$   
 $\text{Log} \Delta y = \dots$   
 $\text{Log} \Delta X = \dots$   
 $\text{Logtan} B = 0.1845150$   
 $B = 10^\circ - 10' - 11''$   
 $\text{Log} \Delta y = \dots$        $\text{Log} \Delta X = \dots$   
 $\text{Logsin} B = \dots$        $\text{Logcos} B = \dots$   
 $\text{Log } D = 0.9266666$        $\text{Log } D = 0.414920$   
 $\Delta x_2 = \dots$   
 $\Delta y_2 = \dots$   
 $D_2 = 146166.01012$       距離 =  $146166.01012$   
 $D = 146166.01012$       方位角  $a = 10^\circ - 10' - 11''$

$X_2 = \dots$        $Y_2 = \dots$   
 $X_1 = \dots$        $Y_1 = \dots$   
 $\Delta X = \dots$        $\Delta Y = \dots$   
 $\text{Log} \Delta y = \dots$   
 $\text{Log} \Delta X = \dots$   
 $\text{Logtan} B = \dots$   
 $B = \dots^\circ - \dots' - \dots''$   
 $\text{Log} \Delta y = \dots$        $\text{Log} \Delta X = \dots$   
 $\text{Logsin} B = \dots$        $\text{Logcos} B = \dots$   
 $\text{Log } D = \dots$        $\text{Log } D = \dots$   
 $\Delta x_2 = \dots$   
 $\Delta y_2 = \dots$   
 $D_2 = \dots$       距離 =  $|K|$   
 $D = \dots$       方位角  $a = \dots^\circ - \dots' - \dots''$

$\Delta X$	$\Delta Y$	Bの象限	Xヲ出スニハ
+	+	I	B
-	+	II	$180^\circ - B$
-	-	III	$180^\circ + B$
+	-	IV	$360^\circ - B$

$X_2 = \dots$        $Y_2 = \dots$   
 $X_1 = \dots$        $Y_1 = \dots$   
 $\Delta X = \dots$        $\Delta y = \dots$   
 $\text{Log} \Delta y = \dots$   
 $\text{Log} \Delta X = \dots$   
 $\text{Logtan} B = \dots$   
 $B = \dots^\circ - \dots' - \dots''$   
 $\text{Log} \Delta y = \dots$        $\text{Log} \Delta X = \dots$   
 $\text{Logsin} B = \dots$        $\text{Logcos} B = \dots$   
 $\text{Log } D = \dots$        $\text{Log } D = \dots$   
 $\Delta x_2 = \dots$   
 $\Delta y_2 = \dots$   
 $D_2 = \dots$       距離 =  $|K|$   
 $D = \dots$       方位角  $a = \dots^\circ - \dots' - \dots''$

$X_2 = \dots$        $Y_2 = \dots$   
 $X_1 = \dots$        $Y_1 = \dots$   
 $\Delta X = \dots$        $\Delta y = \dots$   
 $\text{Log} \Delta y = \dots$   
 $\text{Log} \Delta X = \dots$   
 $\text{Logtan} B = \dots$   
 $B = \dots^\circ - \dots' - \dots''$   
 $\text{Log} \Delta y = \dots$        $\text{Log} \Delta X = \dots$   
 $\text{Logsin} B = \dots$        $\text{Logcos} B = \dots$   
 $\text{Log } D = \dots$        $\text{Log } D = \dots$   
 $\Delta x_2 = \dots$   
 $\Delta y_2 = \dots$   
 $D_2 = \dots$       距離 =  $|K|$   
 $D = \dots$       方位角  $a = \dots^\circ - \dots' - \dots''$

487

55



9997

180-37-20

9996

9995

## 各筆面積計算集計表

ブロック 番 号	各 筆 確 定			備 考	各 筆 番 号	各 筆 確 定			備 考	
	各 筆 番 号	面 m <sup>2</sup>	積 坪			面 m <sup>2</sup>	積 坪			
55	119 <sub>1</sub>	79 706	24 11	(町)						
	91 <sub>1</sub>	285 670	86 41	-						
	92 <sub>1</sub>	208 888	63 19	-						
	119 <sub>7</sub>	232 387	70 30	(町)						
	119 <sub>8</sub>	178 832	54 10	(町)						
	(通)	110 510	33 47	-						
	90 <sub>1</sub>	869 714	263 09	-						
	119 <sub>42</sub>	66 108	20 00	(町)						
	92 <sub>1</sub>	194 956	58 97	-						
	94 <sub>B</sub>	139 015	42 05	-						
	93 <sub>1</sub>	214 908	65 01	-						
	96 <sub>1</sub>	227 558	68 84	-						
	40 <sub>1</sub>	244 657	74 01	-						
	40 <sub>9</sub>	142 227	43 02	-						
(町)	2,784 212	842 22	-							
					計					
					m <sup>2</sup>	坪				
					ブロック計算 = 5979.278	ブロック計算 = 1808.73				
					各筆集計 = 5979.348	各筆集計 = 1808.75				
					ε = 0.070	ε = 0.02				

協和建設測量

面積計算用紙

街廓番号	NO	X <sub>n</sub> (1)	X <sub>n</sub> -X <sub>n+1</sub> (2)	ΔX+ΔX <sub>n+1</sub> (3)	Y <sub>n</sub> (4)	Y <sub>n</sub> -Y <sub>n+1</sub> (5)	Δy <sub>n</sub> +Δy <sub>n+1</sub> (6)	(1) × (6)		(3) × (4)	
								+	-	+	-
55											
筆番号	997	5642.507	-	+ 8.866	4169.255	-	+ 16.420	305.365		170.291	
	1	5638.094	-	⊖ 0.67	4155.156	-	+ 15.503	125.681			345
	17	5642.574	-	⊖ 9.969	4153.752	-	⊖ 16.074		202.114		37.329
	16	5648.043	-	⊖ 4.364	4171.228	-	⊖ 17.822		321.562		92.639
	997	5646.938	-	+ 5.526	4171.574	-	+ 1.973	33.419		119.434	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5.630  
y = 於テ 4.150

Σ = 364.265 523.676 789.725 130.313  
2S = 159.411 159.412  
S = 79.706  
24.11 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub> (1)	X <sub>n</sub> -X <sub>n+1</sub> (2)	ΔX+ΔX <sub>n+1</sub> (3)	Y <sub>n</sub> (4)	Y <sub>n</sub> -Y <sub>n+1</sub> (5)	Δy <sub>n</sub> +Δy <sub>n+1</sub> (6)	(1) × (6)		(3) × (4)	
								+	-	+	-
筆番号	16	5648.043	-	+ 12.441	4171.228	-	+ 12.416	107.904		575.876	
	17	5642.574	-	⊖ 11.336	4153.752	-	+ 22.735	58.520			155.893
	18	5659.379	-	⊖ 12.441	4148.423	-	⊖ 12.416		259.989		156.619
	15	5661.025	-	+ 11.336	4167.168	-	⊖ 22.735		477.796	307.976	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5.640  
y = 於テ 4.140

Σ = 166.626 737.765 883.852 312.512  
2S = 571.341 571.360  
S = 285.670  
86.41 年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
55 筆番号 93,	15	5667.015	-	+ 18.523	4167.168	-	+ 15.268	168.177		340.225	
	18	5659.379	-	⊖ 9.251	4148.493	-	+ 22.082	207.107			78.569
	19	5670.266	-	⊖ 12.523	4145.086	-	⊖ 15.268		309.421		63.692
	16	5671.902	-	+ 9.251	4163.761	-	⊖ 22.082		483.440	219.813	

控除シタル値

X = 於テ 5650

y = 於テ 4140

$$\Sigma = \frac{375.284}{2S} \quad \frac{799.061}{S} \quad \frac{560.038}{S} \quad \frac{160.261}{S}$$

$$2S = 417.777$$

$$S = 417.777$$

$$S = 208.888$$

1319年 年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 119,	16	5671.902	-	+ 15.664	4163.761	-	+ 14.285	27.170		372.192	
	19	5670.266	-	⊖ 8.559	4145.086	-	+ 21.866	5.816			43.591
	20	5680.461	-	+ 15.664	4161.895	-	⊖ 14.285		149.435		29.687
	13	5685.920	-	+ 8.559	4159.321	-	+ 21.866		348.325	165.796	

控除シタル値

X = 於テ 5670

y = 於テ 4140

$$\Sigma = \frac{32.986}{2S} \quad \frac{497.760}{S} \quad \frac{537.988}{S} \quad \frac{73.114}{S}$$

$$2S = 464.776$$

$$S = 464.776$$

$$S = 232.387$$

70.30年 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
55 筆番号 1199	13	5685.930	-	+11.740	4159.271	-	+15.513	91.992		344.816	
	20	5680.461	-	⊖4.177	4161.895	-	+20.495	9.448			49.685
	12	5690.107	-	⊖14.059	4138.276	-	⊖11.052		112.006		134.780
	994	5694.520	-	⊖2.094	4152.977	-	⊖18.532		269.085		43.114
	994	5690.201	-	+8.590	4157.418	-	⊖6.394		78.013	295.435	

控除シタル値

X = 於テ 5680

y = 於テ 4130

$$\Sigma = \frac{101440}{2S} = \frac{459104}{357.664} = \frac{580251}{357.664} = \frac{222587}{178.832}$$

$$2S = 357.664$$

$$S = 178.832$$

$$S = 178.832$$

5410<sup>th</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 1199	1	5638.094	-	+52.619	4133.154	-	⊖14.343		116.092	323.578	
	2	5637.489	-	⊖51.407	4153.219	-	+18.213	136.379			1193.619
	11	5689.501	-	⊖52.619	4136.941	-	+14.343	853.423			365.228
	12	5690.107	-	+51.407	4138.876	-	⊖18.213		1096.729	456.289	

控除シタル値

X = 於テ 5630

y = 於テ 4130

$$\Sigma = \frac{989802}{2S} = \frac{1210821}{221.019} = \frac{1779867}{221.019} = \frac{1558847}{110.510}$$

$$2S = 221.019$$

$$S = 110.510$$

$$S = 110.510$$

3343<sup>th</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
55	90										
筆番号	61	5653.876	-	742.586	4148.090	-	711.086	153.829		1822.685	
	64	5646.917	-	728.667	4125.855	-	733.384	230.917			456.515
	10	5682.543	-	742.586	4114.706	-	711.086		471.632		500.400
	11	5689.501	-	728.667	4136.941	-	733.384		1652.541	775.318	

控除シタル値

X = 於テ 5.640  
y = 於テ 4.110

$$\Sigma = \frac{384.746}{2S} = \frac{2126.173}{1739.427} = \frac{2394.345}{1739.428} = \frac{656.915}{869.714}$$

263.0949 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号	2	5637.488	-	717.538	4153.219	-	71.455		10.895	231.835	
	3	5636.338	-	715.238	4149.545	-	78.803	55.793			145.447
	22	5652.726	-	717.538	4144.416	-	71.455	33.066			77.448
	21	5653.876	-	715.238	4148.090	-	78.803		210.180	123.275	

控除シタル値

X = 於テ 5.640  
y = 於テ 4.140

$$\Sigma = \frac{88.819}{2S} = \frac{221.075}{132.216} = \frac{455.110}{132.215} = \frac{222.895}{66.108}$$

20.00 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
55 筆番号 ②	3	5636.338	-	+ 19.779	4149.545	-	+ 5.706	36.165		386.581	
	4	5638.967	-	⊖ 12.997	4138.710	-	+ 15.964	47.046			113.204
	23	5649.335	-	⊖ 19.779	4139.581	-	⊖ 5.706		110.326		70.829
	22	5652.766	-	+ 12.997	4146.416	-	⊖ 15.964		362.798	187.365	

控除シタル値

X = 於テ 5630-

y = 於テ 4130-

$$\Sigma = \frac{83 \quad 211 \quad 473 \quad 124 \quad 573 \quad 946 \quad 184 \quad 033}{2S = \frac{389.913 \quad \quad \quad 389.913}{S = \frac{194.956 \quad \quad \quad 58.9717}{\text{年 月 日}}}}$$

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ②	4	5638.967	-	+ 18.806	4138.710	-	+ 2.597	7.653		351.860	
	5	5630.529	-	⊖ 13.970	4120.984	-	+ 12.855	6.800			153.446
	24	5646.917	-	⊖ 18.806	4125.855	-	⊖ 2.597		43.933		110.109
	23	5649.335	-	+ 13.970	4139.581	-	⊖ 12.855		248.551	189.729	

控除シタル値

X = 於テ 5630-

y = 於テ 4120-

$$\Sigma = \frac{14 \quad 453 \quad 292 \quad 484 \quad 541 \quad 587 \quad 263 \quad 555}{2S = \frac{278.031 \quad \quad \quad 278.032}{S = \frac{139.015 \quad \quad \quad 42.0517}{\text{年 月 日}}}}$$

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
25 筆番号 ㊟	5	5630.529	-	↑ 16.801	4130.984	-	↑ 13.508	140.726		352.552	
	6	5625.180	-	⊖ 6.103	4113.892	-	↑ 20.676	107.106			23.753
	26	5636.632	-	⊖ 16.801	4110.308	-	⊖ 13.508		224.665		5.175
	25	5641.981	-	↑ 6.103	4127.400	-	⊖ 20.676		454.479	106.192	

控除シタル値

X = 於テ 5660

y = 於テ 4110

$\Sigma = 249\ 328\ 679\ 166\ 458\ 744\ 28\ 928$

$2S = 459.816$

$429.816$

S = 214.908

65.0149 年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
27 筆番号 ㊟	27	5671.091	-	↑ 17.116	4118.290	-	↑ 14.514	160.975		424.212	
	28	5665.427	-	⊖ 5.788	4100.192	-	↑ 21.682	117.668			58.991
	9	5676.879	-	⊖ 17.116	4096.608	-	⊖ 14.514		244.982		113.103
	10	5682.543	-	↑ 5.788	4114.706	-	⊖ 21.682		488.777	140.998	

控除シタル値

X = 於テ 5660

y = 於テ 4090

$\Sigma = 278\ 662\ 733\ 759\ 627\ 210\ 172\ 074$

$2S = 455.116$

$455.116$

S = 227.558

68.8649 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
55 筆番号	29	5659.224	-	+ 21.606	4102.133	-	+ 7.096	65.454		478.206	
	30	5655.273	-	+ 13.705	4089.512	-	+ 18.146	95.604			130.362
	8	5672.929	-	+ 21.606	4083.987	-	+ 7.096		162.704		86.143
	9	5676.879	-	+ 13.705	4096.608	-	+ 18.146		487.746	227.613	

控除シタル値

X = 於テ 5650  
y = 於テ 4080

$$\Sigma = \frac{161 \quad 130 \quad 650 \quad 450 \quad 705 \quad 819 \quad 216 \quad 595}{2S = \frac{409.312 \quad 409.316}{S = 244.657}}$$

76.01 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号	30	5655.273	-	+ 19.952	4089.512	-	+ 1.812	9.555		389.303	
	31	5652.977	-	+ 15.360	4082.175	-	+ 12.862	38.290			187.008
	7	5670.633	-	+ 19.952	4076.650	-	+ 1.812		37.387		132.681
	8	5672.929	-	+ 15.360	4083.987	-	+ 12.862		294.913	214.860	

控除シタル値

X = 於テ 5650  
y = 於テ 4070

$$\Sigma = \frac{47 \quad 845 \quad 332 \quad 300 \quad 606 \quad 143 \quad 219 \quad 689}{2S = \frac{286.455 \quad 284.454}{S = 142.227}}$$

43.02 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub> (1)	X <sub>n</sub> -X <sub>n+1</sub> (2)	ΔX+ΔX <sub>n+1</sub> (3)	Y <sub>n</sub> (4)	Y <sub>n</sub> -Y <sub>n+1</sub> (5)	Δy <sub>n</sub> +Δy <sub>n+1</sub> (6)	(1) × (6)		(3) × (4)	
								+	-	+	-
55	6	5625.180	-	+ 23.418	4113.892	-	+ 34.653	526.033	-	1730.403	-
筆番号	996	5613.214	-	+ 11.613	4075.655	-	+ 39.029	125.439	-	414.062	-
(保)	974	5613.567	-	⊖ 22.971	4074.863	-	+ 16.001	57.076	-	-	783.406
	973	5625.685	-	⊖ 26.555	4059.654	-	+ 23.725	609.377	-	-	718.452
	972	5650.122	-	⊖ 25.007	4051.138	-	+ 14.765	592.401	-	-	278.528
	995	5660.692	-	⊖ 20.511	4044.889	-	⊖ 25.512	-	1293.254	-	100.278
	7	5670.633	-	+ 7.715	4076.650	-	⊖ 37.286	-	2260.762	282.755	-
	31	5652.977	-	+ 11.409	4082.175	-	⊖ 25.483	-	1095.183	481.175	-
	29	5659.224	-	⊖ 12.450	4102.133	-	⊖ 18.017	-	886.869	-	773.556

控除シタル値

X = 於テ

y = 於テ

Σ =

2S =

S =

年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub> (1)	X <sub>n</sub> -X <sub>n+1</sub> (2)	ΔX+ΔX <sub>n+1</sub> (3)	Y <sub>n</sub> (4)	Y <sub>n</sub> -Y <sub>n+1</sub> (5)	Δy <sub>n</sub> +Δy <sub>n+1</sub> (6)	(1) × (6)		(3) × (4)	
								+	-	+	-
筆番号	28	5665.427	-	⊖ 11.867	4100.192	-	⊖ 16.157	-	895.534	-	714.298
	27	5671.091	-	+ 23.446	4118.490	-	⊖ 27.208	-	1662.164	1835.587	-
	25	5641.981	-	+ 34.459	4107.400	-	+ 7.980	255.272	-	3011.717	-
	26	5636.638	-	+ 26.801	4110.308	-	+ 13.508	359.745	-	1181.245	-

控除シタル値

X = 於テ 5610 -

y = 於テ 4040 -

Σ = 2525.343 2093.766 8936.944 3368.518

2S = 5568.423

5568.423

S = 2784.212

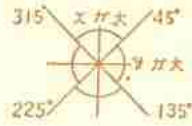
842.2217

年 月 日 印

多角点計算用紙

55

測量No.



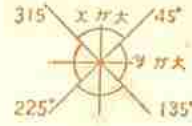
象 限	I	+	+	+
	II	-	-	+
III	+	-	-	-
IV	-	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	997 <sup>II</sup>											5643.563	4178.630	997 <sup>II</sup>
997 <sup>II</sup>	997 <sup>II</sup>			252°37'20"	3.536							5642.507	4169.255	997 <sup>II</sup>
997 <sup>II</sup>	1			"	14.776							5638.096	4155.154	1
1	2			"	2.028							5637.488	4153.219	2
2	3	98.077-		"	3.250							5636.738	4149.565	3
3	4			"	11.253							5632.967	4139.710	4
4	5			"	8.095							5630.529	4130.984	5
5	6			"	17.909							5625.180	4113.892	6
6	996 <sup>II</sup>			"	40.066							5613.216	4075.655	996 <sup>II</sup>
996 <sup>II</sup>	976			294°01'16"	1.267							5613.567	4076.863	976
976	973			325°29'11"	26.843							5635.625	4059.654	973
973	972			329°27'53"	16.761							5650.122	4051.138	972
972	995 <sup>II</sup>			329°24'36"	12.279		1					5660.692	4044.889	995 <sup>II</sup>
995 <sup>II</sup>	7			72°37'20"	33.278							5670.633	4076.650	7
7	8			"	7.688							5670.929	4083.987	8
8	9	113.257-		"	13.225							5676.879	4096.608	9
9	10			"	18.964							5682.543	4116.706	10
10	11			"	23.298							5689.501	4136.941	11
11	12			"	2.028							5690.107	4138.876	12
12	994 <sup>II</sup>			"	14.776							5694.520	4152.977	994 <sup>II</sup>
994 <sup>II</sup>	994 <sup>II</sup>			"	3.536							5695.576	4156.352	994 <sup>II</sup>
994 <sup>II</sup>	994 <sup>II</sup>			162°37'20"	3.536							5692.201	4157.408	994 <sup>II</sup>
994 <sup>II</sup>	13			"	6.572							5625.930	4159.371	13



多角点計算用紙

測量No. 1



象 限	I	+	+	+
	II	-	-	-
III	+	-	-	-
IV	-	+	+	+

測点	規点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	π 997	° 1 "		° 1 "								5643563	4170630	997
997	1			250 37 20	18.310	298671	954356		5.469		17.476	5638096	4155154	1
1	12			340 37 20	54.501	"	"	52.013			16.270	5690107	4138876	12
"	17			"	4.694	"	"	4.480			1.402	5640574	4153750	17
17	16			70 37 20	18.310	"	"	5.469		17.476		5640403	4171028	16
16	15			340 37 20	15.590	"	"	10.970			4.060	5661015	4167168	15
15	14			"	11.408	"	"	10.887			3.407	5671908	4163767	14
14	13			"	14.699	"	"	14.028			4.390	5685930	4159371	13
13	20			250 37 20	18.310	"	"		5.469		17.476	5680461	4141895	20
20	19			160 37 20	10.623	"	"		10.195	3.191		5670766	4145086	19
19	18			"	11.408	"	"		10.887	3.407		5659379	4148493	18
18	17			"	7.001	"	"							
17	1			"		"	"					5638096	4155154	1
1	2			250 37 20	0.008	298671	954356		0.006		1.935	5627428	4153219	2
2	3			"	3.850	"	"		1.150		3.674	5620338	4149545	3
3	4			"	11.353	"	"		3.391		10.835	5630947	4138710	4
4	5			"	8.095	"	"		0.418		7.706	5620509	4130984	5
5	25			340 37 20	10.000	"	"	11.650			3.584	5641981	4107400	25
"	24			"	17.170	"	"	16.388			5.129	5646917	4105855	24
24	23			70 37 20	8.095	"	"	0.418		7.706		5649335	4103581	23
23	22			"	11.353	"	"	3.391		10.835		5658706	4144416	22
22	21			"	3.850	"	"	1.150		3.674		5653876	4148090	21
21	11			340 37 20	37.329	"	"	25.605			11.149	5689501	4136961	11

多角点計算用紙

測量No. 5



象	I	+	+	+
	II	-	-	+
限	III	+	-	-
	IV	+	-	-

測点	視点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	Cos	N (+)	S (-)	E (+)	W (-)	X	Y	
	11											5689501	4136961	11
11	10			252 37 20	23.598	298671	954356		6.958		22.235	5622543	4114706	10
10	27			162 37 20	12.000				11.452	3.584		5671091	4118290	27
27	28			252 37 20	18.964				5.664		18.098	5665427	4100192	28
28	29			162 37 20	6.500				6.203	1.941		5659224	4105133	29
"	9			342 37 20	12.000			11.452			3.584	5676879	4096608	9
9	8			252 37 20	13.225				3.950		12.621	5672929	4082987	8
8	7			"	7.688				2.296		7.337	5670633	4076650	7
7	31			162 37 20	18.500				17.656	5.525		5632977	4022175	31
31	30			72 37 20	7.688			2.296		7.337		5635273	4022512	30
<del>30</del>	29			"	13.225			1.959		12.621		5619224	4122133	29
	25											5641981	4127400	25
25	26			252 37 20	17.909	298671	954356		5.349		17.092	5632632	4112308	26
26	6			162 37 20	12.000				11.452	3.584		5625180	4112892	6
6	996			252 37 20	12.000				11.968		32.227	5612414	4025611	996

方位角及距離計算用紙

$19 X_2 = 5670.266$        $Y_2 = 4165.687$   
 $16 X_1 = 11671.968$        $Y_1 = 4169.761$   
 $\Delta X = -6003.702$        $\Delta Y = -404.074$

Log  $\Delta y$  | . | | | | | | | |  
 Log  $\Delta X$  | . | | | | | | | |  
 - ) -----  
 Logtan  $B$  | 11.414425 |  
 B | 84°-59'-35" |

Log  $\Delta y$  | . | | | | | | | |      Log  $\Delta X$  | . | | | | | | | |  
 LogsinB | . | | | | | | | |      LogcosB | . | | | | | | | |  
 - ) -----      - ) -----  
 Log D | 0.996184 |      Log D | 0.87276 |

$\Delta x_2 =$  | | | | | | | | | |  
 $\Delta y_2 =$  | | | | | | | | | |  
 + ) -----  
 $D_2 = 118.746$   
 $D = 118.745$

距離 = 118.745  
 方位角  $\alpha = 84^\circ - 59' - 35''$

$18 X_2 = 5670.266$        $Y_2 = 4165.687$   
 $16 X_1 = 11671.968$        $Y_1 = 4169.761$   
 $\Delta X = -6003.702$        $\Delta y = -404.074$

Log  $\Delta y$  | . | | | | | | | |  
 Log  $\Delta X$  | . | | | | | | | |  
 - ) -----  
 Logtan  $B$  | 11.414425 |  
 B | 84°-59'-35" |

Log  $\Delta y$  | . | | | | | | | |      Log  $\Delta X$  | . | | | | | | | |  
 LogsinB | . | | | | | | | |      LogcosB | . | | | | | | | |  
 - ) -----      - ) -----  
 Log D | 0.996184 |      Log D | 0.87276 |

$\Delta x_2 =$  | | | | | | | | | |  
 $\Delta y_2 =$  | | | | | | | | | |  
 + ) -----  
 $D_2 = 118.746$   
 $D = 118.745$

距離 = 118.745  
 方位角  $\alpha = 84^\circ - 59' - 35''$

$\Delta X$	$\Delta Y$	B/方位角 a 象限	X 出 スニハ
+	+	I	B
-	+	II	180° - B
-	-	III	180° + B
+	-	IV	360° - B

$X_2 =$  | | | | | | | | | |       $Y_2 =$  | | | | | | | | | |  
 $X_1 =$  | | | | | | | | | |       $Y_1 =$  | | | | | | | | | |  
 $\Delta X = -$  | | | | | | | | | |       $\Delta Y = -$  | | | | | | | | | |

Log  $\Delta y$  | . | | | | | | | |  
 Log  $\Delta X$  | . | | | | | | | |  
 - ) -----  
 Logtan  $B$  | . | | | | | | | |  
 B | | | ° - | ' - | " |

Log  $\Delta y$  | . | | | | | | | |      Log  $\Delta X$  | . | | | | | | | |  
 LogsinB | . | | | | | | | |      LogcosB | . | | | | | | | |  
 - ) -----      - ) -----  
 Log D | . | | | | | | | |      Log D | . | | | | | | | |

$\Delta x_2 =$  | | | | | | | | | |  
 $\Delta y_2 =$  | | | | | | | | | |  
 + ) -----  
 $D_2 =$  | | | | | | | | | |  
 $D =$  | | | | | | | | | |

距離 = | | | | | | | | | |  
 方位角  $\alpha =$  | | ° - | ' - | " |

$X_2 =$  | | | | | | | | | |       $Y_2 =$  | | | | | | | | | |  
 $X_1 =$  | | | | | | | | | |       $Y_1 =$  | | | | | | | | | |  
 $\Delta X = -$  | | | | | | | | | |       $\Delta Y = -$  | | | | | | | | | |

Log  $\Delta y$  | . | | | | | | | |  
 Log  $\Delta X$  | . | | | | | | | |  
 - ) -----  
 Logtan  $B$  | . | | | | | | | |  
 B | | | ° - | ' - | " |

Log  $\Delta y$  | . | | | | | | | |      Log  $\Delta X$  | . | | | | | | | |  
 LogsinB | . | | | | | | | |      LogcosB | . | | | | | | | |  
 - ) -----      - ) -----  
 Log D | . | | | | | | | |      Log D | . | | | | | | | |

$\Delta x_2 =$  | | | | | | | | | |  
 $\Delta y_2 =$  | | | | | | | | | |  
 + ) -----  
 $D_2 =$  | | | | | | | | | |  
 $D =$  | | | | | | | | | |

距離 = | | | | | | | | | |  
 方位角  $\alpha =$  | | ° - | ' - | " |

田卷

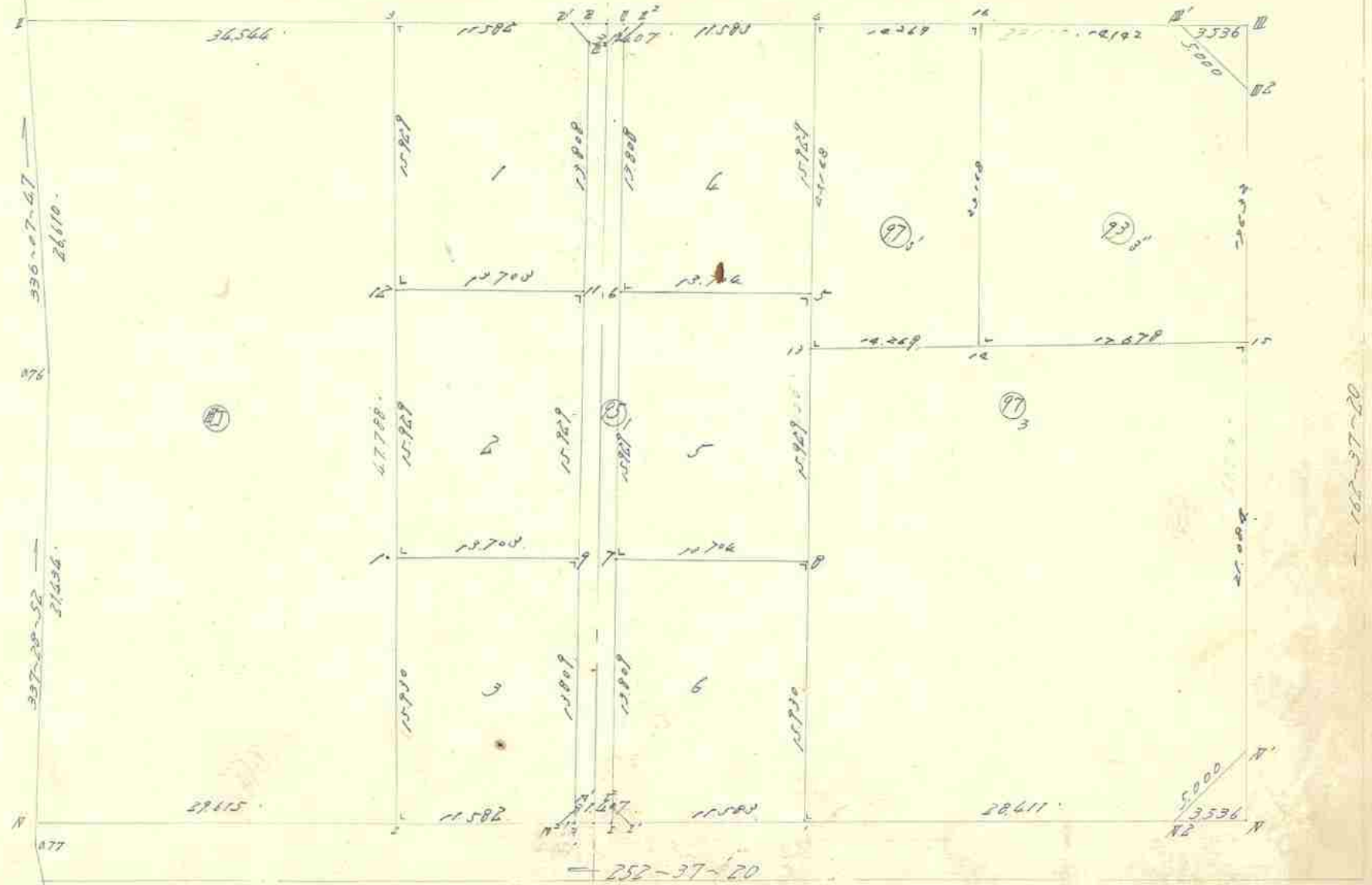
56

274-01-16

075  
096

496  
72-37-20

0997



077  
09103  
070 262-27-08

252-37-20  
491

09102



面積計算用紙

街廓番号 56	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 87 <sub>5</sub>	16	5602.557	-	+17,849	2157.557	-	+20,538			668,656	313,268
	14	5610.226	-	+26,373	2160.271	-	+6,698	59,967			645,374
	18	5606.184	-	+17,849	2150.854	-	+20,538	107,007			193,715
	2	5628.295	-	-26,373	2124.923	-	-6,698			189,520	103,725

控除シタル値

X = 於テ 5600  
y = 於テ 2120

$$\Sigma = \frac{196,976}{2S} = \frac{661,202}{S} = \frac{959,607}{100.007\%}$$

面積計算用紙

街廓番号 56	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 87 <sub>5</sub>	477 <sup>2</sup>	5604.262	-	+21,065	2175.278	-	-19,295			354,786	536,439
	15	5615.726	-	+24,016	2121.293	-	+11,007	173,096			752,709
	12	5610.226	-	-16,831	2160.271	-	+23,791	248,521			543,561
	16	5605.557	-	-26,375	2157.557	-	-6,376			214,095	198,856
	477 <sup>2</sup>	5606.781	-	-1,705	2171.047	-	-17,727			659,373	40,095

控除シタル値

X = 於テ 5600  
y = 於テ 2150

$$\Sigma = \frac{421,617}{2S} = \frac{806,637}{S} = \frac{1287,197}{125.007\%}$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
56											
筆番号	9102 <sup>ア</sup>	5,591,174	-	+12,917	4,185,320	-	+29,633	328,886			585,399
	1	5,582,688	-	+37,121	4,158,206	-	+41,387	111,248			675,825
	4	5,628,295	-	+56,093	4,143,933	-	+12,861		620,156		218,748
	997 <sup>ア</sup>	5,636,781	-	+6,167	4,171,047	-	+31,565		1,791,157		191,467
	997 <sup>イ</sup>	5,634,462	-	+41,176	4,175,478	-	+16,592		903,634	1,660,868	
	9102 <sup>イ</sup>	5,595,605	-	+43,288	4,187,639	-	+9,862		153,584	2,662,197	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

Xニ於テ 5,580

yニ於テ 4,140

$\Sigma = 440,132 \quad 3,668,531 \quad 4,108,437 \quad 1,080,040$

$2S = 2,028,399$

$2,028,397$

$S = 1,516,199$

458,047

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
56											
筆番号	1	5,582,688	-	+56,987	4,158,306	-	+15,700	199,202			2,650,703
	2	5,573,500	-	+36,227	4,128,133	-	+44,246	146,366			660,527
	3	5,618,915	-	+56,987	4,113,760	-	+15,700		767,966		217,749
	4	5,628,295	-	+36,227	4,143,933	-	+44,246		2,579,321	1,229,291	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

Xニ於テ 5,570

yニ於テ 4,110

$\Sigma = 345,568 \quad 2,347,227 \quad 2,879,994 \quad 878,276$

$2S = 2,001,719$

$2,001,718$

$S = 1,500,859$

454,019

年 月 日

面積計算用紙

街廓番号 56	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	ΔYn+ΔYn+1	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 9996	11	5600.986	-	+14.569	4127.671	-	⊖ 6.781			142.293	403.139	
1	11	5607.806	-	+19.291	4131.795	-	+ 8.953	69.887			599.131	
	12	5603.713	-	⊖ 11.109	4118.718	-	+ 19.835	66.221				207.938
	3	5618.915	-	⊖ 18.662	4113.960	-	⊖ 6.296		119.089			260.522
9996	5605.075	-	⊖ 2.069	4125.014	-	⊖ 13.711			306.784			51.754

控除シタル値

X = 於テ

5600-

y = 於テ

4100-

$$\Sigma = \frac{136}{148} \quad \frac{568}{166} \quad \frac{952}{270} \quad \frac{520}{214}$$

$$2S = \frac{432.458}{}$$

$$\frac{432.056}{}$$

$$S = \frac{216.029}{}$$

65.35 t<sub>p</sub>

印  
年 月 日

面積計算用紙

街廓番号 56	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	ΔYn+ΔYn+1	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 5	11	5607.806	-	+ 11.113	4131.795	-	⊖ 17.835			495.920	353.338	
	9	5592.600	-	+ 19.295	4126.552	-	+ 8.320	104.832			705.290	
	10	5588.511	-	⊖ 11.113	4123.675	-	+ 17.835	151.794				260.878
	12	5603.713	-	⊖ 19.295	4118.718	-	⊖ 8.320		197.292			361.164

控除シタル値

X = 於テ

5580-

y = 於テ

4100-

$$\Sigma = \frac{256}{626} \quad \frac{693}{212} \quad \frac{1058}{628} \quad \frac{622}{042}$$

$$2S = \frac{436.586}{}$$

$$\frac{436.586}{}$$

$$S = \frac{218.293}{}$$

66.03 t<sub>p</sub>

印  
年 月 日

面積計算用紙

街廓番号 56	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 w	9	5592.604	-	+ 9.087	4126.552	-	9	17.220	.	089.788	50.417	.
	9p10 <sup>22</sup>	5579.624	-	+ 15.883	4160.678	-	9	2.724	.	25.765	327.895	.
	9p10 <sup>22</sup>	5576.767	-	+ 6.116	4109.287	-	+	12.445	84.215	.	117.959	.
	6	5570.808	-	9	11.744	4128.223	-	+	15.812	52.306	.	96.688
	10	5588.511	-	9	19.292	4124.475	-	9	8.820	.	154.012	47.140
	7	.	-	-	.	-	-	.	.	.	.	.

控除シタル値

X = 於テ 5.570

y = 於テ 4.120

$$\Sigma = 136.521 \quad 568 \quad 565 \quad 595 \quad 771 \quad 160 \quad 720$$

$$2S = 402.044$$

$$402.040$$

$$S = 216.022$$

65.05.27

年 月 日

面積計算用紙

街廓番号 56	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 6	9p10 <sup>22</sup>	5580.611	-	9	14.570	4166.495	-	+	6.781	72.007	.	65.492
	7	5593.798	-	9	17.272	4122.371	-	9	8.950	.	210.069	6.408
	8	5597.891	-	+	11.110	4153.668	-	9	17.205	.	497.406	149.407
	1	5586.688	-	+	12.663	4158.506	-	+	6.296	79.284	.	389.779
	9p10 <sup>22</sup>	5579.228	-	+	2.089	4147.152	-	+	10.711	128.525	.	14.797

控除シタル値

X = 於テ 5.570

y = 於テ 4.120

$$\Sigma = 278 \quad 416 \quad 710 \quad 479 \quad 500 \quad 980 \quad 71.900$$

$$2S = 402.040$$

$$402.080$$

$$S = 216.041$$

12.05.27

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
56 筆番号 5	7	5593.798	-	9 11.109	4142.071	-	+	17.805	67.737		115.211
	6	5609.000	-	9 19.295	4125.613	-	9	8.320		158.080	108.303
	5	5613.093	-	+ 11.109	4148.691	-	9	17.805		411.864	207.638
	8	5597.891	-	+ 19.295	4154.668	-	+	8.320	65.653		452.429

控除シタル値

X = 於テ 5590 -

y = 於テ 4130 -

$\Sigma = 133 \ 390 \ 569 \ 944 \ 660 \ 067 \ 223 \ 514$

$2S = 436.554 \quad 436.553$

$S = 218.277$

66.0357

印  
年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
56 筆番号 4	6	5609.000	-	9 9.226	4125.613	-	+	17.208	154.827		51.000
	4	5622.179	-	9 15.806	4131.488	-	+	21.706	60.637		23.564
	4	5626.836	-	9 8.116	4127.879	-	9	12.445		309.084	17.608
	4	5628.295	-	+ 11.743	4143.923	-	9	15.812		447.401	163.615
	5	5613.093	-	+ 19.295	4148.691	-	+	8.320	108.934		360.643

控除シタル値

X = 於テ 5600 -

y = 於テ 4130 -

$\Sigma = 324 \ 398 \ 756 \ 485 \ 524 \ 258 \ 92 \ 172$

$2S = 432.087 \quad 432.086$

$S = 216.043$

65.3557

印  
年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
56 筆番号 通	9996 <sup>Ⅱ</sup>	5626.856	-	+ 196	4127.879	-	9 6.474			355.008	2.524	
	9996 <sup>Ⅰ</sup>	5622.179	-	+ 44.217	4131.689	-	9 11.616			606.111	507.965	
	9996 <sup>Ⅱ</sup>	5580.619	-	+ 42.951	4146.675	-	9 15.664			166.336	1052.085	
	9996 <sup>Ⅰ</sup>	5579.228	-	+ 3.852	4147.152	-	+ 5.208	48.059			104.590	
	9996 <sup>Ⅱ</sup>	5576.767	-	⊖ 196	4139.287	-	+ 6.474	43.810				3.780
	9996 <sup>Ⅰ</sup>	5579.624	-	⊖ 44.217	4140.678	-	+ 11.616	109.469				914.319
	9996 <sup>Ⅱ</sup>	5620.986	-	9 42.951	4127.671	-	+ 15.664	798.613				329.477
	9996 <sup>Ⅰ</sup>	5622.375	-	9 5.852	4125.014	-	9 5.208		272.769			19.314

控除シタル値

X = 於テ 5570 —

y = 於テ 4120 —

Σ = 999 951 1400 224 1667 164 1266 890

2S = 400 273

400.274

S = 200.136

60.54 07

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号											

控除シタル値

X = 於テ

y = 於テ

Σ =

2S =

S =

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
56											
筆番号	2	5573.308	-	7 56.458	4128.233	-	+ 12.990	186.179	,	6987.543	,
㊟	9103 <sup>A</sup>	5564.663	-	9 10.955	4099.970	-	+ 36.478	168.775	,	,	1095.171
	276	5584.263	-	9 44.136	4091.761	-	+ 18.977	460.439	,	,	4049.780
	496 <sup>B</sup>	5608.597	-	9 34.650	4080.993	-	9 22.199	,	1078.805	,	2816.569
	3	5618.915	-	+ 35.289	4113.960	-	9 47.260	,	2783.145	4081.534	,
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5560

y = 於テ 4000

$\Sigma = \frac{809.393}{2S} = \frac{3.861.950}{2052.557} = \frac{11,006.077}{2052.557}$

$S = \frac{1526.278}{461.70^{14}}$

$S = 1526.278$

461.70<sup>14</sup>

年 月 日

印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号											
○											

控除シタル値

X = 於テ

y = 於テ

$M =$

$S =$

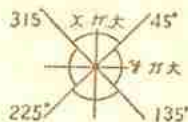
$S =$

年 月 日

印

多角点計算用紙

測量No. \_\_\_\_\_

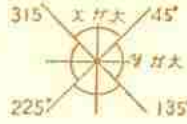


象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	+

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N(+)	S(-)	E(+)	W(-)	X	Y	
	9102 <sup>正</sup>	0 1 "		0 1 "	.			.	.	.	.	5592.230	4188.695	9102 <sup>正</sup>
9102 <sup>正</sup>	9102 <sup>正</sup>			252 37 20	3.536			.	.	.	.	5591.174	4185.320	9102 <sup>正</sup>
9102 <sup>正</sup>	1			"	28.411			.	.	.	.	5582.688	4188.206	1
1	2	89.433		"	31.407			.	.	.	.	5573.308	4188.233	2
2	9103 <sup>正</sup>			"	29.615			.	.	.	.	5566.463	4099.970	9103 <sup>正</sup>
9103 <sup>正</sup>	076			337 28 52	21.434			.	.	.	.	5586.263	4091.761	076
076	996 <sup>正</sup>			336 07 47	26.610			.	.	.	.	5608.597	4080.993	996 <sup>正</sup>
996 <sup>正</sup>	3			72 37 20	34.546			.	.	.	.	5618.915	4113.960	3
3	4	94.362		"	31.407			.	.	.	.	5628.295	4143.933	4
4	997 <sup>正</sup>			"	28.411			.	.	.	.	5636.781	4171.047	997 <sup>正</sup>
997 <sup>正</sup>	997 <sup>正</sup>			"	3.536			.	.	.	.	5637.837	4176.422	997 <sup>正</sup>
997 <sup>正</sup>	997 <sup>正</sup>			162 37 20	3.536			.	.	.	.	5634.462	4175.478	997 <sup>正</sup>
997 <sup>正</sup>	9102 <sup>正</sup>			"	40.716			.	.	.	.	5595.605	4187.639	9102 <sup>正</sup>
9102 <sup>正</sup>	9102 <sup>正</sup>			"	3.536			.	.	.	.	5592.230	4188.695	9102 <sup>正</sup>

多角点計算用紙

測量No. 56



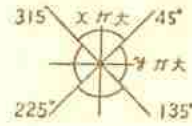
象	I	+	+	↗
限	II	↘	-	+
	III	↗	-	-
	IV	+	↘	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	Cos	N(+)	S(-)	E(+)	W(-)	X	Y	
	3											5618.915	4113.761	3
3	4			76°37'20"	11.582	298671	954356	3.459		11.053		5622.375	4125.012	4
4	5			"	2.121	"	"	.633		2.024		5623.008	4127.038	5
5	6			162°37'20"	2.121	"	"		5.024	.633		5622.984	4127.671	6
6	7			76°37'20"	4.000	"	"	1.195		3.817		5626.203	4130.855	7
7	8			162°37'20"	2.121	"	"		5.024	.633		5622.779	4131.488	8
8	9			76°37'20"	2.121	"	"	.633		2.024		5624.836	4132.879	9
9	10											5582.688	4158.206	10
10	11			252°37'20"	11.583	298671	954356	3.460		11.054		5579.228	4147.152	11
11	12			"	2.121	"	"		.633	2.024		5578.595	4145.128	12
12	13			242°37'20"	2.121	"	"		5.024	.633		5580.619	4146.495	13
13	14			252°37'20"	4.000	"	"	1.195		3.817		5577.400	4146.211	14
14	15			242°37'20"	2.121	"	"		5.024	.633		5579.424	4146.678	15
15	16			252°37'20"	2.121	"	"		.633	2.024		5576.767	4149.287	16
16	17											5628.275	4123.943	17
17	18			162°37'20"	23.168	298671	954356		22.111	6.920		5606.184	4150.853	18
18	19			72°37'20"	10.269	"	"	9.262		13.618		5612.226	4149.071	19
19	20			"	17.678	"	"	5.280		10.871		5615.726	4148.042	20
20	21			242°37'20"	23.168	"	"		22.111			5628.275	4123.943	21

協和建設測量

多角点計算用紙

測量No.

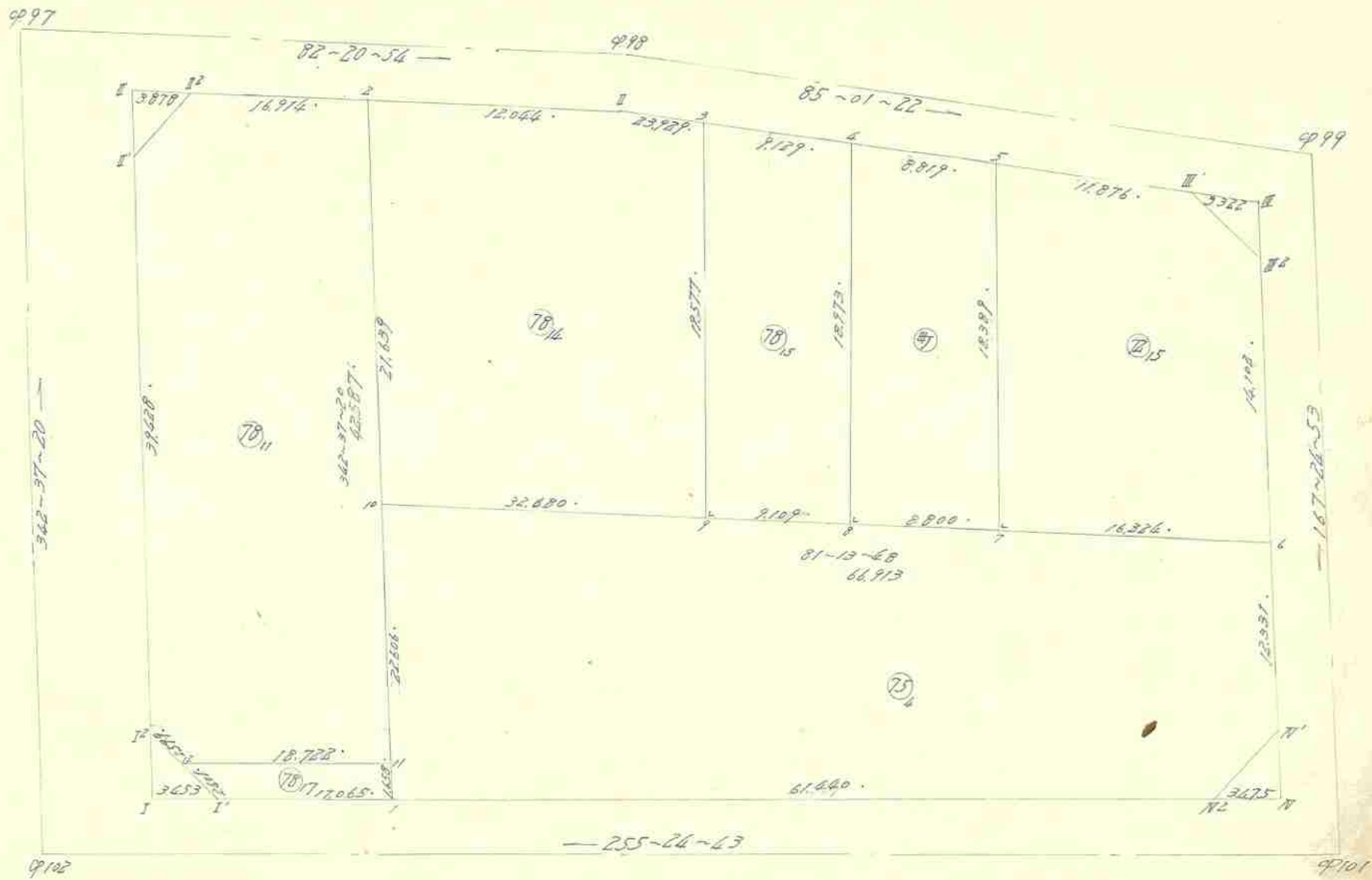


象 限	I	+	+	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	99102 <sup>ア</sup>	111		111	.			.	.	.	.	5592.230	4188.695	99102 <sup>ア</sup>
99102 <sup>ア</sup>	1			252 37 20	31.947	298671	954.356	9.562	.	30.489	5582.488	4158.206	1	
1	4			342 37 20	47.788	"	"	45.607	.	14.273	5628.295	4143.933	4	
4	3			252 37 20	31.407	"	"	9.380	.	29.973	5618.915	4113.960	3	
3	2			162 37 20	47.788	"	"	45.607	14.273	.	5573.308	4128.233	2	
2	99103 <sup>ア</sup>			252 37 20	29.615	"	"	8.845	.	28.263	5564.463	4099.970	99103 <sup>ア</sup>	
	3			.	.			.	.	.	.	4118.915	4113.960	3
3	9996 <sup>ア</sup>			72 37 20	13.703	298671	954.356	4.093	.	13.078	5623.008	4127.238	9996 <sup>ア</sup>	
9996 <sup>ア</sup>	9996 <sup>ア</sup>	11007		"	4.000	"	"	1.195	.	3.817	5624.203	4120.855	9996 <sup>ア</sup>	
9996 <sup>ア</sup>	4			"	13.704	"	"	4.093	.	13.078	5628.295	4143.933	4	
4	5			162 37 20	15.929	"	"	15.202	4.758	.	5612.093	4148.691	5	
5	6			252 37 20	13.704	"	"	4.093	.	13.078	5609.000	4135.613	6	
6	7			162 37 20	15.929	"	"	15.202	4.758	.	5593.798	4140.371	7	
7	8			72 37 20	13.704	"	"	4.093	.	13.078	5597.891	4153.448	8	
8	1			162 37 20	15.929	"	"	15.202	4.758	.	5582.688	4158.206	1	
1	99102 <sup>ア</sup>			252 37 20	13.704	"	"	4.093	.	13.078	5578.595	4163.128	99102 <sup>ア</sup>	
99102 <sup>ア</sup>	99103 <sup>ア</sup>	11607		"	4.000	"	"	1.195	.	3.817	5577.200	4141.311	99103 <sup>ア</sup>	
99103 <sup>ア</sup>	2			"	13.703	"	"	4.093	.	13.078	5573.308	4128.233	2	
2	10			242 37 20	15.929	"	"	15.202	.	14.258	5588.511	4123.475	10	
10	9			72 37 20	13.703	"	"	4.093	.	13.078	5592.600	4136.553	9	
9	11			242 37 20	15.929	"	"	15.202	.	14.258	5607.806	4131.735	11	
11	12			252 37 20	13.703	"	"	4.093	.	13.078	5602.713	4118.718	12	

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47番





面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
57											
筆番号	1	5601.808	-	+ 5.880	4223.936	-	+ 16.019	189.152		140.744	
7817	9102 <sup>1</sup>	5597.510	-	+ 3.134	4207.422	-	+ 18.614	139.797		23.261	
	12	5598.674	-	+ 5.890	4205.322	-	+ 16.019		138.949		31.293
1	11	5603.390	-	+ 3.134	4223.441	-	+ 18.614		249.241		73.464

控除シタル値

X = 於テ 5,590

Y = 於テ 4,200

$$\Sigma = \frac{320 \quad 943 \quad 388 \quad 19.0 \quad 164 \quad 0.05 \quad 10.4 \quad 7.57}{2S = \frac{59.247 \quad 59.248}{S = 29.624}}$$

8.9657

年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
57											
筆番号	11	5603.390	-	+ 45.360	4223.441	-	+ 5.399	72.293		1516.984	
7811	12	5598.674	-	+ 3.453	4205.322	-	+ 20.392	176.880		52.938	
	9102 <sup>2</sup>	5599.935	-	+ 39.890	4203.049	-	+ 14.050	139.587			507.476
	997 <sup>1</sup>	5637.564	-	+ 41.846	4191.270	-	+ 9.097	432.404			53.228
	997 <sup>2</sup>	5641.781	-	+ 6.470	4193.258	-	+ 19.449		1007.089		25.608
	8	5644.034	-	+ 38.391	4210.721	-	+ 29.483		1593.084	795.500	

控除シタル値

X = 於テ 5,590

Y = 於テ 4,190

$$\Sigma = \frac{821 \quad 1642.600 \quad 173 \quad 2365 \quad 322 \quad 586 \quad 312}{2S = \frac{1779.009 \quad 1779.010}{S = 889.505}}$$

269.0757

年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
57	筆番号										
	9101	5,617.283	-	+19.741	4,283.396	-	+63.066	1,072.687		1,646.320	
	1	5,601.808	-	+6.099	4,283.936	-	+66.712	119.711			145.986
	10	5,623.382	-	+31.776	4,217.184	-	+59.379		1,388.400		546.039
	6	5,633.584	-	+1.933	4,283.315	-	+68.818		2,311.284	152.716	
	9101	5,621.549	-	+16.301	4,286.002	-	+0.081		1,745	1,401.919	

控除シタル値

X=於テ 5,600

y=於テ 4,200

$\Sigma =$  1,192.398    3,701.329    3,200.955    692.025

$\Sigma S =$  2,508.931    2,508.930

S = 1,254.465

379.48<sup>37</sup>

年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
57	筆番号										
	9	5,628.365	-	+24.337	4,249.483	-	+29.313	245.203		960.639	
	10	5,623.382	-	+15.669	4,217.184	-	+38.761	131.099			112.566
	2	5,644.034	-	+22.255	4,210.721	-	+5.474		131.562		16.046
	998	5,645.637	-	+3.679	4,222.658	-	+35.776		917.188		46.569
	3	5,647.713	-	+17.272	4,246.497	-	+26.804		743.374	630.076	

控除シタル値

X=於テ 5,620

y=於テ 4,210

$\Sigma =$  376.293    1,792.125    1,691.013    175.181

$\Sigma S =$  1,415.838    1,415.838

S = 707.916

214.1434

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
57	8	5,629.756	-	+ 20.140	4,258.484	-	+ 6.109	59.587		372.268	
筆番号	9	5,628.365	-	+ 17.959	4,249.482	-	+ 11.987	100.271			170.287
7815	3	5,647.713	-	+ 20.140	4,246.497	-	+ 6.109		169.289		120.850
	4	5,648.505	-	+ 17.959	4,255.591	-	+ 11.987		347.689	277.999	

控除シタル値

X = 於テ 5,620

y = 於テ 4,260

$$N = \frac{129.859}{351.130} \quad \frac{510.988}{351.130} \quad \frac{652.267}{351.130} \quad \frac{301.137}{351.130}$$

$$S = \frac{175.565}{53.114}$$

$$S = 175.565$$

53.114 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
57	6	5,633.584	-	+ 16.251	4,283.315	-	+ 13.061	46.811		378.892	
筆番号	7	5,631.096	-	+ 15.686	4,267.181	-	+ 18.938	20.756			112.661
7815	5	5,649.270	-	+ 19.205	4,264.377	-	+ 9.038		173.970		84.060
999	999	5,650.301	-	+ 1.923	4,276.209	-	+ 15.865		300.075	31.170	
999	999	5,647.347	-	+ 16.717	4,280.242	-	+ 7.106		123.268	338.386	

控除シタル値

X = 於テ 5,630

y = 於テ 4,260

$$N = \frac{67.567}{551.746} \quad \frac{619.313}{551.746} \quad \frac{748.448}{551.746} \quad \frac{196.701}{551.746}$$

$$S = \frac{275.873}{83.454}$$

$$S = 275.873$$

83.454 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
57											
筆番号	7	5,631,096	-	+ 19,516,4267,187	-	-	+ 5,893	65,389		335,304	
④	8	5,629,754	-	+ 17,409,4258,484	-	-	+ 11,590	113,049			147,698
	4	5,648,505	-	+ 19,516,4255,591	-	-	+ 5,893		167,980		109,114
	5	5,649,270	-	+ 17,409,4264,377	-	-	+ 11,590		339,239	250,289	

控除シタル値

X = 於テ 5,620.

y = 於テ 4,250.

$\Sigma = 178 \quad 438 \quad 507 \quad 219 \quad 585 \quad 593 \quad 256 \quad 812$

$2S = 328,781$

$328,781$

$S = 164,390.$

49.73坪

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号											
○											

控除シタル値

X = 於テ

y = 於テ

M =

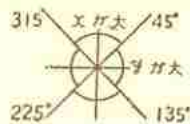
2S =

S =

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

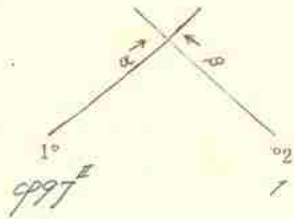


象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	9101 <sup>N</sup>	0 1 "		0 1 "	.			.	.	.	.	5618.158	4286759	9101 <sup>N</sup>
9101 <sup>N</sup>	9101 <sup>R2</sup>			255 24 43	3.475			.	.	.	.	5617.283	4283.396	9101 <sup>R2</sup>
9101 <sup>R2</sup>	1	78.505		"	61.440			.	.	.	.	5601.808	4223.936	1
1	9102 <sup>I'</sup>			"	17.065			.	.	.	.	5597.510	4207.422	9102 <sup>I'</sup>
9102 <sup>I'</sup>	9102 <sup>I</sup>			"	3.453			.	.	.	.	5596.640	4204.080	9102 <sup>I</sup>
9102 <sup>I</sup>	9102 <sup>I2</sup>			342 37 20	3.453			.	.	.	.	5599.935	4203.049	9102 <sup>I2</sup>
9102 <sup>I2</sup>	997 <sup>II'</sup>			"	39.428			.	.	.	.	5637.564	4191.272	997 <sup>II'</sup>
997 <sup>II'</sup>	997 <sup>II</sup>			"	3.878			.	.	.	.	5641.265	4190.114	997 <sup>II</sup>
997 <sup>II</sup>	997 <sup>II2</sup>			82 20 54	3.878			.	.	.	.	5641.781	4193.958	997 <sup>II2</sup>
997 <sup>II2</sup>	2	28.958		"	16.914			.	.	.	.	5646.034	4210.721	2
2	998 <sup>III</sup>			"	12.064			.	.	.	.	5645.637	4222.658	998 <sup>III</sup>
998 <sup>III</sup>	3			85 01 22	23.929			.	.	.	.	5647.713	4246.497	3
3	4	53.753		"	9.129			.	.	.	.	5648.505	4255.591	4
4	5			"	8.819			.	.	.	.	5649.270	4266.377	5
5	999 <sup>III'</sup>			"	11.876			.	.	.	.	5650.307	4276.209	999 <sup>III'</sup>
999 <sup>III'</sup>	999 <sup>III</sup>			"	3.322			.	.	.	.	5650.589	4279.518	999 <sup>III</sup>
999 <sup>III</sup>	999 <sup>III2</sup>			167 24 53	3.322			.	.	.	.	5647.347	4280.262	999 <sup>III2</sup>
999 <sup>III2</sup>	6	26.433		"	14.108			.	.	.	.	5632.586	4283.315	6
6	9101 <sup>R1</sup>			"	12.331			.	.	.	.	5621.549	4286.002	9101 <sup>R1</sup>
9101 <sup>R1</sup>	9101 <sup>N</sup>			"	3.475			.	.	.	.	5618.158	4286.759	9101 <sup>N</sup>



算出点 2



$$\begin{aligned} X_2 &= -56011.808 \\ X_1 &= -56411.265 \\ \Delta X &= -400.457 \end{aligned}$$

$$\begin{aligned} \alpha &= 182^\circ - 20' - 54'' \\ \beta &= 342^\circ - 37' - 20'' \\ \beta - \alpha &= 160^\circ - 16' - 26'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +152.87823 \\ \Delta X \times \textcircled{4} &= +111.78466 \\ E &= 120.49357 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 120.49357$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +112.769 \\ X_1 &= -56411.265 \\ X &= -56411.094 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +120.1607 \\ Y_1 &= -41910.114 \\ Y &= -4210.721 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42231.1936 \\ Y_1 &= -41910.114 \\ \Delta Y &= -321.0796 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.1511 \\ \text{Sin} \alpha &= +0.1891 \\ \text{Cos} \beta &= +0.1954 \\ \text{Sin} \beta &= 0.1291 \\ \text{Sin}(\beta - \alpha) &= -0.1985 \end{aligned}$$

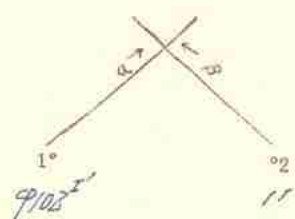
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +114.50320 \\ \Delta X \times \textcircled{2} &= 0.139.10567 \\ F &= 121.60967 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 121.60967$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +142.225 \\ X_2 &= -56011.808 \\ X &= -56411.094 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9.113.215 \\ Y_2 &= -42231.1936 \\ Y &= -4210.721 \end{aligned}$$

算出点 12



$$\begin{aligned} X_2 &= -56103.1390 \\ X_1 &= -55917.5110 \\ \Delta X &= -185.6280 \end{aligned}$$

$$\begin{aligned} \alpha &= 299^\circ - 00' - 36'' \\ \beta &= 125^\circ - 24' - 43'' \\ \beta - \alpha &= 173^\circ - 24' - 07'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 9.112.03267 \\ \Delta X \times \textcircled{4} &= 9.115.09044 \\ E &= 111.65577 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 111.65577$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +111.1164 \\ X_1 &= -55917.5110 \\ X &= -55918.674 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9.112.1100 \\ Y_1 &= -42107.1422 \\ Y &= -42105.1322 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42231.1441 \\ Y_1 &= -42107.1422 \\ \Delta Y &= -124.0019 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.1484 \\ \text{Sin} \alpha &= 0.1817 \\ \text{Cos} \beta &= 0.1251 \\ \text{Sin} \beta &= 0.1961 \\ \text{Sin}(\beta - \alpha) &= -0.1689 \end{aligned}$$

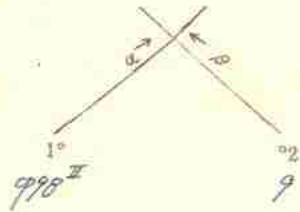
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +117.76861 \\ \Delta X \times \textcircled{2} &= 0.115.14227 \\ F &= 112.191088 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 112.191088$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9.111.1716 \\ X_2 &= -56103.1390 \\ X &= -55918.674 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9.111.1119 \\ Y_2 &= -42231.1441 \\ Y &= -42105.1322 \end{aligned}$$

算出点 3



$$\begin{aligned} \frac{9}{998} X_2 &= -516481.1365 \\ \frac{9}{998} X_1 &= -516451.1637 \\ \Delta X &= -0.117.272 \end{aligned}$$

$$\alpha = 125^\circ - 01' - 22''$$

$$\beta = 137^\circ - 13' - 48''$$

$$\beta - \alpha = 126^\circ - 12' - 26''$$

$$\begin{aligned} Y_2 &= -4249.482 \\ Y_1 &= -4222.658 \\ \Delta Y &= +126.824 \end{aligned}$$

$$\text{Cosa} = + \cdot 108167610 \text{ ①}$$

$$\text{Sina} = + \cdot 19962219 \text{ ②}$$

$$\text{Cos}\beta = + \cdot 1988308 \text{ ③}$$

$$\text{sin}\beta = 0 \cdot 152468 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 1997810 \text{ ⑤}$$

$$\Delta Y \times \text{③} = + 126.51037$$

$$\Delta X \times \text{④} = + 117.63343$$

$$E = 123.87894$$

$$\Delta Y \times \text{①} = + 117.32725$$

$$\Delta X \times \text{②} = 9117.20687$$

$$F = 119.53212$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = 123.19293$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = 119.57220$$

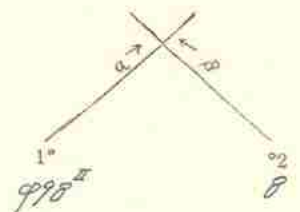
$$\begin{aligned} S_1 \times \text{①} &= + 117.10176 \\ X_1 &= -516451.1637 (+) \\ X &= -51647.1713 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= + 117.1348 \\ X_2 &= -51648.1365 (+) \\ X &= -51647.1713 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + 117.1399 \\ Y_1 &= -4222.658 (+) \\ Y &= -4246.1497 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 0 117.1985 \\ Y_2 &= -4249.482 (+) \\ Y &= -4246.1497 \end{aligned}$$

算出点 4



$$\begin{aligned} \frac{8}{998} X_2 &= -516219.1754 \\ \frac{8}{998} X_1 &= -516451.1637 \\ \Delta X &= -0.115.883 \end{aligned}$$

$$\alpha = 125^\circ - 01' - 22''$$

$$\beta = 137^\circ - 13' - 48''$$

$$\beta - \alpha = 126^\circ - 12' - 26''$$

$$\begin{aligned} Y_2 &= -4249.482 \\ Y_1 &= -4222.658 \\ \Delta Y &= +126.824 \end{aligned}$$

$$\text{Cosa} = + \cdot 108167610 \text{ ①}$$

$$\text{Sina} = + \cdot 19962219 \text{ ②}$$

$$\text{Cos}\beta = + \cdot 1988308 \text{ ③}$$

$$\text{sin}\beta = 0 \cdot 152468 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 1997810 \text{ ⑤}$$

$$\Delta Y \times \text{③} = + 123.462722$$

$$\Delta X \times \text{④} = + 117.42165$$

$$E = 123.19293$$

$$\Delta Y \times \text{①} = + 117.10176$$

$$\Delta X \times \text{②} = 9117.20687$$

$$F = 118.99127$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = 123.10176$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = 118.19729$$

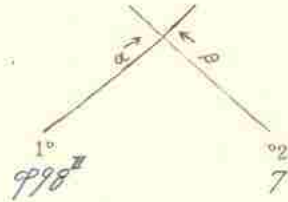
$$\begin{aligned} S_1 \times \text{①} &= + 117.10176 \\ X_1 &= -516451.1637 (+) \\ X &= -51648.1365 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= + 117.1348 \\ X_2 &= -516219.1754 (+) \\ X &= -51648.1365 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + 117.1399 \\ Y_1 &= -4222.658 (+) \\ Y &= -4246.1497 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 0 117.1985 \\ Y_2 &= -4249.482 (+) \\ Y &= -4246.1497 \end{aligned}$$

算出点 5



$$\begin{aligned} X_2 &= -56311.096 \\ X_1 &= -56451.637 \\ \Delta X &= -0134.541 \end{aligned}$$

$$\begin{aligned} \alpha &= 185^\circ - 01' - 28'' \\ \beta &= 135^\circ - 13' - 48'' \\ \beta - \alpha &= 286^\circ - 12' - 28'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +124.06044 \\ \Delta X \times \textcircled{4} &= +112.21704 \\ E &= 141.28540 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 141.8771$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +113.633 \\ X_1 &= -56451.637 \\ X &= -56491.270 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +141.719 \\ Y_1 &= -42221.658 \\ Y &= -42661.377 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42617.181 \\ Y_1 &= -42221.658 \\ \Delta Y &= +395.523 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +.1086760 \textcircled{1} \\ \text{Sin} \alpha &= +.9916229 \textcircled{2} \\ \text{Cos} \beta &= +.988308 \textcircled{3} \\ \text{Sin} \beta &= .1522618 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.1997810 \textcircled{5} \end{aligned}$$

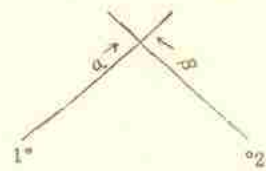
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +119.86282 \\ \Delta X \times \textcircled{2} &= 9134.48613 \\ F &= 118.34899 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 118.3893$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +118.174 \\ X_2 &= -56311.096 \\ X &= -56491.270 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0112.804 \\ Y_2 &= -42617.181 \\ Y &= -42661.377 \end{aligned}$$

算出点



$$\begin{aligned} X_2 &= - \\ X_1 &= - \\ \Delta X &= - \end{aligned}$$

$$\begin{aligned} \alpha &= \\ \beta &= \\ \beta - \alpha &= \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= - \\ \Delta X \times \textcircled{4} &= - \\ E &= \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} =$$

$$\begin{aligned} S_1 \times \textcircled{1} &= - \\ X_1 &= - \\ X &= - \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= - \\ Y_1 &= - \\ Y &= - \end{aligned}$$

$$\begin{aligned} Y_2 &= - \\ Y_1 &= - \\ \Delta Y &= - \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= - \\ \text{Sin} \alpha &= - \\ \text{Cos} \beta &= - \\ \text{Sin} \beta &= - \\ \text{Sin}(\beta - \alpha) &= - \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= - \\ \Delta X \times \textcircled{2} &= - \\ F &= \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} =$$

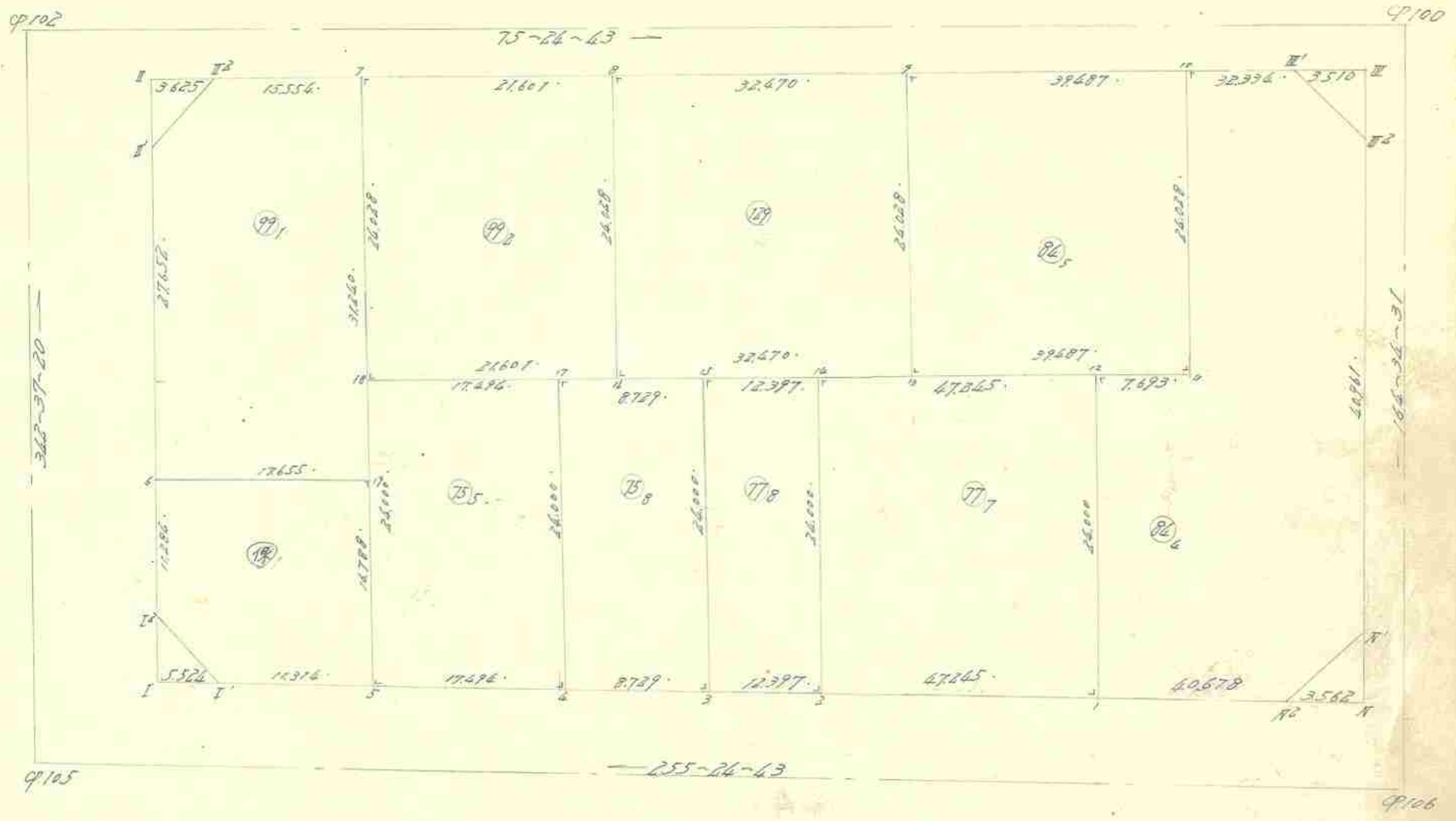
$$\begin{aligned} S_2 \times \textcircled{3} &= - \\ X_2 &= - \\ X &= - \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= - \\ Y_2 &= - \\ Y &= - \end{aligned}$$



58

50





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy+Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
58	5	5549.257	-	+ 19.097	4236.531	-	+ 6.720	62.207			506.663	
筆番号	9105	5546.407	-	⊖ 1.031	4225.582	-	+ 17.945	114.974				16.065
保	9105	5550.288	-	⊖ 14.650	4218.586	-	+ 10.366	106.645				125.785
	6	5561.057	-	⊖ 15.216	4215.216	-	⊖ 13.716		288.818			79.367
	19	5565.504	-	+ 11.800	4232.302	-	⊖ 21.315		543.618	263.164		
			-	-		-	-					
			-	-		-	-					
			-	-		-	-					
			-	-		-	-					
			-	-		-	-					

控除シクル値

X=於テ 5560

y=於テ 4210

$$\bar{x} = \frac{283.876}{25} = 11.355$$

$$2s = \frac{548.610}{25} = 21.944$$

$$s = \frac{274.305}{25} = 10.972$$

8298<sup>59</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy+Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
58	19	5565.504	-	+ 34.679	4232.302	-	+ 9.218	50.736			1120.201	
筆番号	6	5561.057	-	⊖ 21.942	4215.216	-	125.345	26.790				333.869
保	9102	5587.446	-	⊖ 30.762	4206.957	-	+ 5.834	160.120				214.011
	9102	5591.819	-	⊖ 8.290	4209.382	-	⊖ 17.477		556.101			77.777
	7	5595.736	-	+ 26.315	4224.434	-	⊖ 22.920		819.069	642.981		
			-	-		-	-					
			-	-		-	-					
			-	-		-	-					
			-	-		-	-					

控除シクル値

X=於テ 5560

y=於テ 4200

$$\bar{x} = \frac{237.646}{170} = 1.398$$

$$2s = \frac{4137.524}{170} = 24.341$$

$$s = \frac{569.762}{170} = 3.352$$

172.05坪 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
58	筆番号										
	16	5,577.923	-	+ 28.694	4,251.390	-	+ 14.854	117.688		900.705	
	18	5,572.483	-	+ 17.813	4,230.485	-	+ 26.956	66.932		186.769	
	7	5,595.736	-	+ 28.694	4,224.434	-	+ 14.854		382.283		127.229
	8	5,601.177	-	+ 17.813	4,245.339	-	+ 26.956		840.407	451.366	

控除シタル値

X = 於テ 5,570

Y = 於テ 4,220

$$\Sigma = \frac{184.620}{28} = 6.5935714$$

$$2S = \frac{1232.690}{28} = 44.0246429$$

$$S = \frac{1352.069}{28} = 48.2881786$$

157019 年 月 日

印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
58	筆番号										
	4	5,553.663	-	+ 27.632	4,253.661	-	+ 10.886	148.708		648.274	
	5	5,549.257	-	+ 18.820	4,236.531	-	+ 22.976	212.689		122.913	
	18	5,572.483	-	+ 27.632	4,230.485	-	+ 10.886		353.545		13.402
	17	5,576.889	-	+ 18.820	4,247.415	-	+ 22.976		847.562	327.750	

控除シタル値

X = 於テ 5,540

Y = 於テ 4,220

$$\Sigma = \frac{361.397}{28} = 12.9070357$$

$$2S = \frac{1204.107}{28} = 43.0038214$$

$$S = \frac{976.024}{28} = 34.858$$

127019 年 月 日

印



面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
58											
筆番号	9106 <sup>ア</sup>	5,581.130	-	+ 14.576	4,358.994	-	+ 41.867	465.980		714.137	
864	1	5,570.885	-	+ 12.980	4,371.827	-	+ 45.412	40.190			124.958
	12	5,594.110	-	+ 25.163	4,313.582	-	+ 1.400		33.754		90.134
	11	5,596.048	-	+ 25.192	4,321.027	-	+ 1.394		36.311		277.792
	10	5,619.302	-	+ 31.398	4,314.976	-	+ 25.247		1,244.432		156.736
	9100 <sup>イ</sup>	5,627.446	-	+ 5.644	4,346.268	-	+ 35.623		2,046.399		204.697
	9100 <sup>ロ</sup>	5,624.946	-	+ 41.985	4,350.599	-	+ 15.226		836.608	1,704.549	
	9106 <sup>ハ</sup>	5,585.461	-	+ 43.816	4,361.494	-	+ 8.395		129.795	2,256.261	

控除シタル値

X = 於テ 5,570.-

y = 於テ 4,310.-

$$\bar{x} = \frac{506.170}{28} = 18.0775$$

$$28 = 3821.129$$

$$28 = 2821.130$$

$$s = 1910.565$$

$$577.95 \text{ 坪}$$

年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
58											
筆番号	11	5,596.048	-	+ 33.200	4,321.027	-	+ 32.163	516.132		1,694.096	
865	13	5,586.102	-	+ 12.308	4,282.813	-	+ 44.265	270.103			170.515
	9	5,609.356	-	+ 33.200	4,276.762	-	+ 32.163		944.177		224.498
	10	5,619.302	-	+ 13.308	4,314.976	-	+ 44.265		1,739.703	598.540	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5,580.-

y = 於テ 4,270.-

$$\bar{x} = \frac{786}{28} = 28.0714$$

$$28 = 1,897.623$$

$$28 = 1,897.623$$

$$s = 948.811$$

$$287.01 \text{ 坪}$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
58	筆番号 1	5570.885	-	+ 35.1254319.627	-	-	+ 39.676	828.633		2,094.398	
	2	5558.985	-	+ 11.3254273.906	-	-	+ 51.767	465.126			157.495
	14	5582.710	-	- 35.1254267.860	-	-	- 39.676		1,277.964		276.083
	12	5594.110	-	+ 11.3254313.582	-	-	+ 51.767		2,283.442	606.816	

控除シタル値

X = 於テ 5,550.-

Y = 於テ 4,260.-

$$\Sigma = 1293 \quad 7593561 \quad 4062701 \quad 214 \quad 433 \quad 569$$

$$\Sigma S = 2267.647 \quad 2267.646$$

$$S = 1,133.823$$

342.98坪

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
58	筆番号 13	5586.102	-	+ 31.4334282.813	-	-	+ 29.372	408.540		1,345.741	
	16	5577.923	-	- 15.0754251.390	-	-	+ 37.474	296.907			171.704
	8	5601.177	-	+ 31.4334245.339	-	-	- 25.372		791.023		167.820
	9	5609.356	-	- 15.0754276.762	-	-	+ 37.474		1,474.827	554.187	

控除シタル値

X = 於テ 5,570.-

Y = 於テ 4,240.-

$$\Sigma = 705 \quad 4472265 \quad 8501999 \quad 928 \quad 339 \quad 524$$

$$\Sigma S = 1560.403 \quad 1560.404$$

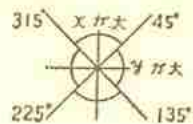
$$S = 780.202$$

236.01坪

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



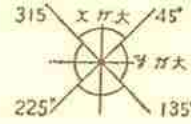
象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	-	/
	IV	+	/	-	/

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	9106 <sup>#</sup>	0 1 "		0 1 "	.			.	.	.	.	5582.027	4362.441	9106 <sup>#</sup>
9106 <sup>#</sup>	9106 <sup>#</sup>			255 24 43	3.562			.	.	.	.	5581.130	4358.994	9106 <sup>#2</sup>
9106 <sup>#2</sup>	1			"	40.678			.	.	.	.	5570.885	4319.627	1
1	2			"	47.265			.	.	.	.	5558.985	4273.906	2
2	3	137.857		"	12.397			.	.	.	.	5555.862	4261.909	3
3	4			"	8.729			.	.	.	.	5553.663	4253.461	4
4	5			"	17.494			.	.	.	.	5549.257	4236.531	5
5	9105 <sup>#</sup>			"	11.314			.	.	.	.	5546.407	4225.582	9105 <sup>#</sup>
9105 <sup>#</sup>	9105 <sup>#</sup>			"	5.524			.	.	.	.	5545.016	4220.236	9105 <sup>#</sup>
9105 <sup>#</sup>	9105 <sup>#</sup>			342 37 20	5.524			.	.	.	.	5550.288	4218.586	9105 <sup>#2</sup>
9105 <sup>#2</sup>	6	38.936		"	11.284			.	.	.	.	5561.057	4215.216	6
6	9102 <sup>#</sup>			"	27.652			.	.	.	.	5587.446	4206.957	9102 <sup>#</sup>
9102 <sup>#</sup>	9102 <sup>#</sup>			"	3.625			.	.	.	.	5590.906	4205.874	9102 <sup>#</sup>
9102 <sup>#</sup>	9102 <sup>#</sup>			75 24 43	3.625			.	.	.	.	5591.819	4209.382	9102 <sup>#2</sup>
9102 <sup>#2</sup>	7			"	15.554			.	.	.	.	5595.736	4226.436	7
7	8			"	21.601			.	.	.	.	5601.177	4245.339	8
8	9	141.446		"	32.470			.	.	.	.	5609.356	4276.762	9
9	10			"	39.487			.	.	.	.	5619.302	4316.976	10
10	9100 <sup>#</sup>			"	32.334			.	.	.	.	5627.446	4346.268	9100 <sup>#</sup>
9100 <sup>#</sup>	9100 <sup>#</sup>			"	3.510			.	.	.	.	5628.330	4347.665	9100 <sup>#</sup>
9100 <sup>#</sup>	9100 <sup>#</sup>			164 34 31	3.510			.	.	.	.	5626.946	4350.599	9100 <sup>#2</sup>
9100 <sup>#2</sup>	9106 <sup>#</sup>			"	40.961			.	.	.	.	5585.461	4346.494	9106 <sup>#</sup>
9106 <sup>#</sup>	9106 <sup>#</sup>			"	3.562			.	.	.	.	5582.027	4362.441	9106 <sup>#</sup>

協和建設測量

多角点計算用紙

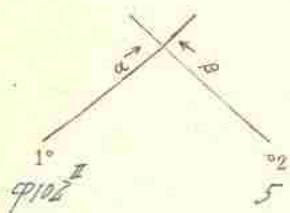
測量No. \_\_\_\_\_



象 限	I	+	↗	+	↗
	II	+	↘	-	↘
	III	-	↙	-	↙
	IV	-	↖	+	↖

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	9105 <sup>f</sup>	° 1 "		° 1 "	.			.	.	.	.	5545.016	4220.236	9105 <sup>f</sup>
9105 <sup>f</sup>	5			75 24 43	16.838	251882	967758	4.241	.	16.295	.	5549.257	4236.531	5
5	19			345 24 43	16.788	"	"	16.247	.	.	4.229	5565.506	4232.302	19
19	18			"	7.212	"	"	6.999	.	.	1.817	5572.483	4230.425	18
18	17		21.611	75 24 43	17.494	"	"	4.406	.	16.930	.	5576.989	4247.415	17
17	16			"	4.107	"	"	1.034	.	3.975	.	5577.923	4251.390	16
16	15		8.729	"	4.622	"	"	1.164	.	4.473	.	5579.087	4255.963	15
15	14		32.470	"	12.397	"	"	3.123	.	11.997	.	5582.210	4267.860	14
14	13			"	15.451	"	"	3.892	.	14.953	.	5586.102	4282.813	13
13	12		67.445	"	31.796	"	"	8.068	.	30.769	.	5594.119	4313.588	12
12	11		39.487	"	7.693	"	"	1.938	.	7.445	.	5596.048	4321.027	11
	5				.			.	.	.	.	5549.257	4236.531	5
5	4			75 24 43	17.494	251882	967758	4.406	.	16.930	.	5553.563	4257.461	4
4	3			"	8.729	"	"	2.999	.	9.448	.	5555.965	4261.909	3
3	2			"	12.397	"	"	3.123	.	11.997	.	5558.985	4273.906	2
2	1			"	47.245	"	"	11.900	.	45.721	.	5570.885	4319.427	1
	7				.			.	.	.	.	5575.736	4274.474	7
7	8			75 24 43	21.601	251882	967758	5.441	.	20.905	.	5601.177	4245.339	8
8	9			"	32.470	"	"	8.179	.	31.423	.	5609.356	4276.762	9
9	10			"	39.487	"	"	9.946	.	38.214	.	5619.302	4314.976	10

算出点 7



$$\begin{aligned} \frac{5}{9102''} X_2 &= -554191.257 \\ \frac{5}{9102''} X_1 &= -551901.1906 \\ \Delta X &= -21411.848 \end{aligned}$$

$$\begin{aligned} Y_2 &= -423161.1537 \\ Y_1 &= -42051.874 \\ \Delta Y &= -11910.1657 \end{aligned}$$

$$\alpha = 125^\circ - 24' - 43''$$

$$\text{Cosa} = + \cdot 12511868 \text{ ①}$$

$$\beta = 134^\circ - 34' - 43''$$

$$\text{Sina} = + \cdot 19677612 \text{ ②}$$

$$\beta - \alpha = 109^\circ - 06' - 00''$$

$$\text{Cos}\beta = + \cdot 19677612 \text{ ③}$$

$$\text{sin}\beta = - \cdot 12511868 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 11111111 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= + 129.66868 \\ \Delta X \times \text{④} &= + 1701.49005 \\ E &= 1119.17863 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= + 117.72152 \\ \Delta X \times \text{②} &= - 9120.20632 \\ F &= 1128.104084 \end{aligned}$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = 1111.1111$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = 1111.1111$$

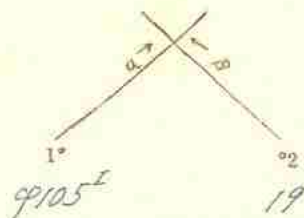
$$\begin{aligned} S_1 \times \text{①} &= + 1111.1111 \\ X_1 &= -551901.1906 \\ X &= -551901.1906 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= + 1111.1111 \\ X_2 &= -554191.257 \\ X &= -554191.257 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + 1111.1111 \\ Y_1 &= -42051.874 \\ Y &= -42051.874 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= - 1111.1111 \\ Y_2 &= -423161.1537 \\ Y &= -423161.1537 \end{aligned}$$

算出点 6



$$\begin{aligned} \frac{19}{9105''} X_2 &= -55615.1504 \\ \frac{19}{9105''} X_1 &= -5545.10116 \\ \Delta X &= -11201.488 \end{aligned}$$

$$\alpha = 134^\circ - 37' - 30''$$

$$\begin{aligned} Y_2 &= -423161.1502 \\ Y_1 &= -42201.1516 \\ \Delta Y &= -11110.1016 \end{aligned}$$

$$\text{Cosa} = + \cdot 19115111111 \text{ ①}$$

$$\text{Sina} = - \cdot 12111111111 \text{ ②}$$

$$\text{Cos}\beta = - \cdot 12111111111 \text{ ③}$$

$$\text{sin}\beta = - \cdot 19111111111 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 11111111111 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= - 91111.11111 \\ \Delta X \times \text{④} &= - 91111.11111 \\ E &= 1111.11111 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= + 1111.11111 \\ \Delta X \times \text{②} &= - 91111.11111 \\ F &= 1111.11111 \end{aligned}$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = 1111.11111$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = 1111.11111$$

$$\begin{aligned} S_1 \times \text{①} &= + 1111.11111 \\ X_1 &= -5545.10116 \\ X &= -5545.10116 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= - 1111.11111 \\ X_2 &= -55615.1504 \\ X &= -55615.1504 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= - 1111.11111 \\ Y_1 &= -42201.1516 \\ Y &= -42201.1516 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= - 1111.11111 \\ Y_2 &= -423161.1502 \\ Y &= -423161.1502 \end{aligned}$$





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
59											
筆番号	9105 <sup>2</sup>	5,535,727	-	+ 9,929	4,202,670	-	+ 119,887	113,893	,	225,110	,
	1	5,530,229	-	0 6,711	4,185,106	-	+ 21,389	4,898	,	,	34,253
756	6	5,542,438	-	0 18,763	4,181,283	-	0 17,122	,	212,963	,	24,073
	5	5,548,992	-	+ 2,280	4,203,226	-	0 23,708	,	450,262	50,675	,
	9105 <sup>2</sup>	5,540,158	-	+ 13,265	4,204,991	-	0 446	,	4,530	331,506	,

控除シタル値

X = 於テ 5,530

y = 於テ 4,180

$\Sigma = \underline{118,791} \quad \underline{667,755} \quad \underline{607,291} \quad \underline{58,326}$

$2S = \underline{548,966} \quad \underline{548,965}$

$S = \underline{274,482} \quad \underline{274,482}$   
830377 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
59											
筆番号	5	5,548,992	-	+ 40,691	4,202,226	-	+ 110,260	92,258	,	1718,218	,
	6	5,542,438	-	0 30,958	4,181,283	-	+ 32,683	79,821	,	,	658,879
772	4	5,579,950	-	0 42,010	4,169,543	-	0 5,829	,	232,869	,	410,924
	9102 <sup>2</sup>	5,585,448	-	0 3,179	4,187,112	-	0 22,000	,	799,856	,	76,129
	9102 <sup>2</sup>	5,583,129	-	+ 36,456	4,191,543	-	0 15,114	,	651,852	1,149,932	,

控除シタル値

X = 於テ 5,540

y = 於テ 4,160

$\Sigma = \underline{171,939} \quad \underline{1714,577} \quad \underline{2268,150} \quad \underline{1155,510}$

$2S = \underline{1714,637} \quad \underline{1714,637}$

$S = \underline{857,319} \quad \underline{857,319}$   
25904 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
59 筆番号 通	4102 <sup>22</sup>	5575.542	-	+ 196	4155.258	-	0 6.474		230,099	3,030	
	4102 <sup>21</sup>	5576.885	-	+ 25.015	4156.067	-	0 5.622		184,879	352,529	
	4102 <sup>20</sup>	5550.677	-	+ 23.603	4161.080	-	0 3.196		33,484	497,551	
	4102 <sup>19</sup>	5569.286	-	0 21.213	4157.263	-	+ 10.830	100,524			366,200
	4102 <sup>18</sup>	5571.690	-	- 23.799	4150.250	-	+ 9.670	306,412			213,940
	4102 <sup>17</sup>	5570.081	-	0 3.852	4147.593	-	0 5.208	172,286	172,286		29,248

控除シタル値

X = 於テ 5.540

y = 於テ 4.140

$\Sigma = 406 \ 966 \ 670 \ 748 \ 853 \ 170 \ 679 \ 388$

$2S = 213.782 \quad 213.782$

$S = 106.891$

年 月 日

52.33 坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 通	4102 <sup>22</sup>	5570.315	-	+ 194	4138.757	-	0 6.475		261,040	1,699	
	4102 <sup>21</sup>	5567.658	-	+ 30.407	4137.866	-	0 7.294		294,677	223,908	
	4102 <sup>20</sup>	5509.908	-	+ 28.945	4146.051	-	0 4.868		68,232	464,596	
	4102 <sup>19</sup>	5508.710	-	0 26.504	4142.234	-	+ 18.509	108,999			322,862
	4102 <sup>18</sup>	5566.462	-	0 29.129	4138.548	-	+ 17.303	413,528			103,385
	4102 <sup>17</sup>	5567.152	-	0 3.853	4130.891	-	0 5.208	194,191	194,191		3,433

控除シタル値

X = 於テ 5570

y = 於テ 4150

$\Sigma = 522 \ 529 \ 781 \ 120 \ 690 \ 273 \ 431 \ 680$

$2S = 258.599 \quad 258.599$

$S = 129.296$

年 月 日

39.11 坪

面積計算用紙

街廓番号 59	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 9	4	5578.950	-	+ 7.809 4169.565	-	-	⊖ 17.909	.	.	357.285	152.572
	11	5567.735	-	+ 17.257 4172.867	-	-	+ 12.286	95.032	.	403.266	.
	12	5562.693	-	⊖ 5.150 4157.257	-	-	+ 19.300	51.975	.	.	37.376
	4110 <sup>1</sup>	5572.885	-	⊖ 12.849 4156.067	-	-	+ 1.799	23.180	.	.	52.257
	4110 <sup>2</sup>	5575.568	-	⊖ 7.065 4155.658	-	-	⊖ 15.476	.	240.528	.	38.561

控除シタル値

X = 於テ 5560 -

y = 於テ 4150 -

$$\Sigma = 170.187 \quad 597.813 \quad 555.816 \quad 128.192$$

$$2S = 427.626 \quad 427.626$$

$$S = 213.813$$

64.6874 年 月 日

面積計算用紙

街廓番号 59	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 10	4110 <sup>1</sup>	5550.477	-	⊖ 7.176 4161.080	-	-	+ 19.934	9.508	.	.	79.488
	12	5562.693	-	⊖ 17.258 4157.257	-	-	⊖ 12.287	.	155.959	.	125.861
	11	5567.735	-	+ 7.176 4172.867	-	-	⊖ 19.933	.	353.597	167.635	.
	10	5555.519	-	+ 17.258 4177.190	-	-	+ 12.287	67.812	.	469.828	.

控除シタル値

X = 於テ 5550 -

y = 於テ 4150 -

$$\Sigma = 79.320 \quad 509.470 \quad 626.880 \quad 204.769$$

$$2S = 426.150 \quad 426.150$$

$$S = 213.075$$

65.8674 年 月 日

面積計算用紙

街廓番号 59	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 2-1	10	5555.519		1 5.979	4177.190						
	9	5543.803		1 16.959	4181.013						
	20	5548.560		1 929	4165.858						
	19	5542.674		9 2.421	4164.633						
	18	5540.981		0 6.808	4159.861						
	0101	5549.282		9 14.538	4157.263						

控除シタル値

X = 於テ 5520

y = 於テ 4150

$$\Sigma = 446 \ 700 \ 940 \ 814 \ 701 \ 664 \ 208 \ 169$$

$$2S = 493.514$$

$$493.515$$

$$S = 246.757$$

74.6424 年 月 日

面積計算用紙

街廓番号 59	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 2-3	19	5542.674		1 14.807	4164.633						
	2	5545.486		1 21.169	4169.949						
	7	5521.805		9 12.807	4156.588						
	17	5548.293		9 21.169	4151.276						

控除シタル値

X = 於テ 5520

y = 於テ 4150

$$\Sigma = 68 \ 501 \ 566 \ 916 \ 609 \ 705 \ 111 \ 300$$

$$2S = 498.406$$

$$498.405$$

$$S = 249.203$$

75.3824 年 月 日

面積計算用紙

街廓番号 59	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 71	16	5546.252		+ 17.408	4150.846			⊖ 14.354		448.591	528.263	
	7	5521.805		+ 29.194	4156.589			+ 29.303	263.440		1068.150	
	7104	5512.058		+ 7.450	4127.040			+ 30.609	62.993		52.470	
	080	5513.855		⊖ 21.980	4125.979			+ 5.138	19.827			131.418
	8	5536.038		⊖ 26.394	4121.905			⊖ 15.772		379.127		50.788
	23	5540.249		⊖ 2.675	4141.751			⊖ 20.329		614.932		101.686
	op104	5538.713		⊖ 1.003	4142.234			⊖ 8.595		246.788		22.381

控除シタル値

X = 於テ 5510

y = 於テ 4120

$$\Sigma = 346.260 / 1689.438 / 1468.883 / 205.686$$

$$2S = 1243.198$$

$$1243.197$$

$$S = 621.599$$

503.1677 年 月 日

面積計算用紙

街廓番号 59	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 8	10	5557.012		+ 11.999	4156.844			⊖ 17.901		480.142	178.113	
	18	5540.981		+ 18.717	4159.861			+ 3.672	39.224		471.778	
	17	5548.293		⊖ 2.271	4157.272			+ 9.515	78.908			13.055
	16	5541.252		⊖ 1.615	4150.846			+ 5.221	58.747			16.707
	15	5539.908		⊖ 11.728	4146.051			+ 2.326	83.088			70.966
	14	5542.980		⊖ 17.114	4141.960			⊖ 8.793		202.063		33.524

控除シタル値

X = 於テ 5530

y = 於テ 4140

$$\Sigma = 209.967 / 685.605 / 549.891 / 124.254$$

$$2S = 425.608$$

$$425.607$$

$$S = 212.819$$

64.0877 年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)		
		(i)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
59 筆番号 2~5	20	5554.763	-	1 8.197	4139.214	-	0 20.944			617.189	229.632	
	21	5560.269	-	1 20.705	4141.756	-	1 15.310	156.912			657.404	
	22	5536.698	-	0 1.916	4121.905	-	1 21.486	86.760				22 210
	279	5542.165	-	0 12.318	4120.265	-	1 5.098	82.017				146.974
	28	5548.356	-	0 17.578	4116.807	-	0 16.950		311.134			85.618

控除シタル値

X = 於テ 5530

y = 於テ 4110

Σ = 305 689 928 323 878 836 255 462

2S = 422.636

422.636

S = 311.317

94.17.75 年 月 日

印

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)		
		(i)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
59 筆番号 2~4	9p102	5566.462	-	1 13.109	4132.548	-	0 6.322			127.346	439.781	
	21	5556.763	-	1 18.700	4127.215	-	0 16.741	246.813			673.815	
	22	5548.356	-	0 4.659	4116.807	-	1 27.581	230.467				108.523
	9p103	5561.200	-	0 19.498	4107.604	-	0 16.084		298.581			187.826
	9p104	5567.852	-	0 7.262	4120.891	-	0 23.914		666.053			162.148

控除シタル値

X = 於テ 5540

y = 於テ 4100

Σ = 477 230 1131 980 1113 594 458 895

2S = 654.700

654.700

S = 327.350

99.02.75 年 月 日

印

面積計算用紙

街廓番号 59	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 202	9	5540.209	-	+	8.331	4181.013	-	+	19.266	468.490	175.059	
	1	5540.229	-	+	17.817	4185.104	-	+	11.064	113.174	467.278	
	2	5525.486	-	+	8.331	4169.949	-	+	19.266	705.584		82.885
	20	5538.510	-	+	17.817	4165.258	-	+	11.064	205.348		106.874

控除シタル値

X = 於テ 5520

y = 於テ 4160

Σ = 218 757 653 838 622 537 187 257

2S = 435.081

435.080

S = 217.540

658174 年 月 日

面積計算用紙

街廓番号 59	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 7-	9	5571.690	-	+	16.269	4150.250	-	+	7.257	157.274	325.399	
	13	5557.012	-	+	10.710	4156.864	-	+	8.290	58.129	464.831	
	14	5552.980	-	+	10.540	4161.960	-	+	19.498	52.880		129.326
	9	5567.258	-	+	17.935	4107.066	-	+	3.203	56.449		129.690
	9	5570.015	-	+	5.223	4100.757	-	+	10.277	204.782		47.489
	9	5570.081	-	+	1.975	4147.590	-	+	11.493	265.240		

控除シタル値

X = 於テ 5550

y = 於テ 4100

Σ = 166 997 630 306 770 228 026 695

2S = 403.534

403.533

S = 201.766

701174 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
59 筆番号 ②⑥	6	5500.059	-	+10.588	2186.261	-	0 8.999	.	126.517	68.609	.
	1	5501.850	-	+13.830	2190.282	-	+1.357	2.510	.	142.200	.
	1	5500.269	-	-10.588	2185.102	-	+8.999	2.062	.	.	56.081
	6	5505.208	-	-13.830	2191.283	-	-1.357	.	16.878	.	17.743

控除シタル値

X = 於テ 5500

y = 於テ 2180

$$\Sigma = \frac{4 \ 570 \ 143 \ 398 \ 210 \ 609 \ 571 \ 774}{2S = \frac{138.825 \quad 138.825}{S = 69.412 \quad 2177}} \text{年 月 日}$$

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
59 筆番号 ②⑥	5	5508.992	-	+3.901	2202.226	-	-18.530	.	381.921	86.703	.
	4	5500.158	-	+13.265	2209.991	-	4.446	.	4.530	331.506	.
	4	5505.727	-	+8.308	2202.678	-	+14.709	84.238	.	188.358	.
	1	5501.850	-	-8.332	2190.282	-	+16.211	39.990	.	.	85.669
	6	5500.059	-	-17.142	2186.261	-	-11.944	.	167.920	.	110.754

控除シタル値

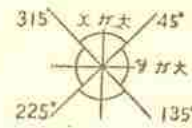
X = 於テ 5530

y = 於テ 4180

$$\Sigma = \frac{114 \ 228 \ 124 \ 371 \ 606 \ 567 \ 196 \ 423}{2S = \frac{410.143 \quad 410.144}{S = 205.072 \quad 5277}} \text{年 月 日}$$

多角点計算用紙

測量No. \_\_\_\_\_

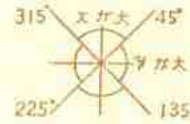


象 限	I	+	+	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	9105 <sup>1</sup>	0	"	0	"			.	.	.	.	5536.783	4206.047	9105 <sup>1</sup>
9105 <sup>2</sup>	9105 <sup>1</sup>			252	37 20	3.536		.	.	.	.	5535.727	4207.672	9105 <sup>2</sup>
9105 <sup>3</sup>	1					18.409		.	.	.	.	5530.229	4185.106	1
1	2					15.880		.	.	.	.	5525.486	4169.949	2
2	7					14.000		.	.	.	.	5521.305	4156.588	7
9107 <sup>1</sup>	9104 <sup>1</sup>					30.957		.	.	.	.	5517.058	4127.043	9104 <sup>1</sup>
9104 <sup>2</sup>	080					2.088		.	.	.	.	5513.855	4125.979	080
080	8					18.972		.	.	.	.	5508.452	4122.226	8
9	079					9.909		.	.	.	.	5504.165	4120.265	079
079	9103 <sup>1</sup>					31.803		.	.	.	.	5501.200	4109.634	9103 <sup>1</sup>
9103 <sup>2</sup>	3					28.395		.	.	.	.	5509.682	4106.733	3
9103 <sup>3</sup>	9103 <sup>2</sup>					11.979		.	.	.	.	5503.081	4107.593	9103 <sup>3</sup>
9103 <sup>4</sup>	9103 <sup>3</sup>					2.121		.	.	.	.	5503.714	4108.617	9103 <sup>4</sup>
9103 <sup>5</sup>	9103 <sup>4</sup>					4.000		.	.	.	.	5506.907	4103.434	9103 <sup>5</sup>
9103 <sup>6</sup>	9103 <sup>5</sup>					2.121		.	.	.	.	5505.542	4105.458	9103 <sup>6</sup>
9103 <sup>7</sup>	9104 <sup>2</sup>					14.759		.	.	.	.	5509.950	4109.543	9104 <sup>2</sup>
4	9102 <sup>1</sup>					18.409		.	.	.	.	5505.448	4107.112	9102 <sup>1</sup>
9102 <sup>2</sup>	9102 <sup>1</sup>					3.536		.	.	.	.	5506.584	4109.487	9102 <sup>2</sup>
9102 <sup>3</sup>	9102 <sup>2</sup>					3.536		.	.	.	.	5503.129	4191.543	9102 <sup>3</sup>
9102 <sup>4</sup>	5					25.770		.	.	.	.	5508.992	4202.226	5
5	9105 <sup>1</sup>					9.257		.	.	.	.	5500.158	4206.991	9105 <sup>1</sup>
9105 <sup>2</sup>	9105 <sup>2</sup>					3.536		.	.	.	.	5536.783	4206.047	9105 <sup>2</sup>

多角点計算用紙

測量No.

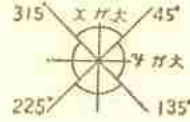


象 限	I	+	+	+
	II	-	-	+
III	+	-	-	-
IV	-	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N(+)	S(-)	E(+)	W(-)	X	Y	
	op103 <sup>2</sup>	"	"	"								5561.210	4109.134	op103 <sup>2</sup>
op103 <sup>2</sup>	op102 <sup>1</sup>			72° 37' 20"	20.274	298671	954356	6.657	21.257			5587.852	4130891	op102 <sup>1</sup>
op102 <sup>1</sup>	op102 <sup>2</sup>			"	2.121	"	"	.633	2.024			5588.486	4132.915	op102 <sup>2</sup>
op102 <sup>2</sup>	op102 <sup>3</sup>			162° 37' 20"	2.121	"	"		2.024	.633		5566.466	4133.568	op102 <sup>3</sup>
op102 <sup>3</sup>	21			"	12.277	"	"		11.719	3.667		5556.743	4137.215	21
21	22			252° 37' 20"	21.121	"	"							22
22	a79			150° 49' 05"		407585	873076							a79
	3op102 <sup>3</sup>											5569.682	4106.733	3op102 <sup>3</sup>
3	op102 <sup>2</sup>			72° 37' 20"	2.121	298671	954356	.633	2.024			5570.115	4138.757	op102 <sup>2</sup>
	op102 <sup>1</sup>			162° 37' 20"	2.121	"	"		2.024	.633		5567.658	4137.366	op102 <sup>1</sup>
	5op102 <sup>2</sup>											5509.908	4166.051	5op102 <sup>2</sup>
15	op102 <sup>3</sup>			252° 37' 20"	6.000	298671	956356		1.195		0.817	5538.713	4166.234	op102 <sup>3</sup>
op102 <sup>3</sup>	8			"	20.965	"	"		6.266		20.008	5526.402	4123.226	8
8	a80			168° 35' 20"	18.976	197847	1980233		18.597	0.756		5513.855	4125.979	a80
	6											5502.408	4181.280	6
6	6'			72° 37' 20"	5.226	298671	950056	1.621	5.178			5504.059	4186.461	6'
6'	1'			162° 37' 20"	12.790	"	"		12.209	0.821		5501.850	4190.280	1'

多角点計算用紙

測量No.



象 限	I	+	+	+
	II	-	-	+
	III	-	-	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	9105 <sup>ア</sup>	° 1 "		° 1 "	.			.	.	.	.	5536.783	4206.047	9105 <sup>ア</sup>
9105 <sup>ア</sup>	5			342 37 20	12.793	298671	954356 <sup>ア</sup>	12.209	.	.	3.821	5548.993	4207.386	5
"	1			252 37 20	21.945	"	"	.	6.554	.	20.943	5530.229	4185.104	1
1	6			342 37 20	12.793	"	"	12.209 <sup>ア</sup>	.	.	3.821	5542.438	4181.283	6
6	4			"	39.306	"	"	37.512 <sup>ア</sup>	.	.	11.740	5579.950	4169.543	4
	3					"	"	.	.	.	.			3
	2					"	"	.	.	.	.			2
	1					"	"	.	.	.	.			1



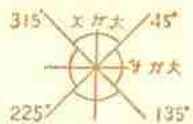
象	I	+	-	+
限	IV	+	-	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	6											5579.950	4169.540	6
	6			252°37'20"	16.759	298671	956356		4.608		16.085	5575.562	4155.658	7
				"	2.121	"	"		.633		2.024	5574.909	4153.434	8
				"	4.000	"	"		1.195		3.817	5573.714	4149.617	9
				"	2.121	"	"		.633		2.024	5573.081	4147.593	10
				"	11.379	"	"		3.399		10.860	5569.682	4136.733	11
	14			162°37'20"	17.500	"	"		16.701		5.227	5552.980	4161.960	12
	14			72°37'20"	13.500	"	"		4.032		12.894	5557.012	4156.864	13
	10			162°37'20"	8.100	"	"		7.730		2.419	5549.282	4157.263	14
				72°37'20"	4.000	"	"		1.195		3.817	5550.477	4161.080	15
				"	16.880	"	"		5.062		16.110	5555.579	4172.190	16
	10			342°37'20"	12.800	"	"		12.616		3.823	5567.735	4173.367	17
	11			252°37'20"	16.880	"	"		5.062		16.110	5562.693	4157.257	18
	12			342°37'20"	10.679	"	"		10.192		3.190	5572.885	4154.067	19
				"	2.121	"	"		2.024		.633	5576.909	4153.434	20
	1											5530.229	4185.106	1
	9			342°37'20"	13.699	298671	956356		12.076		4.091	5543.900	4181.013	9
	20			252°37'20"	15.880	"	"		4.763		15.155	5558.560	4165.858	20
	2			162°37'20"	13.699	"	"		12.076		4.091	5525.486	4169.969	2
												5573.714	4149.617	21
				162°37'20"	2.121	298671	956356		2.024		.633	5571.690	4153.434	22

協和建設測量

多角点計算用紙

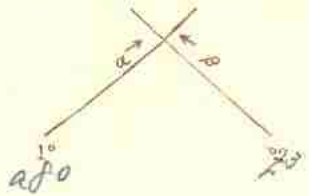
測量No. 59



象	I	+	+
限	II	-	+
	III	-	-
	IV	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N(+)	S(-)	E(+)	W(-)	X	Y	
	2	"	"	"								5525.486	4149.49	5
2	7			256°37'20"	14.000	298671	954356	2.181		13361.552	2054156.588			7
7	17			242°37'20"	17.800	"	"	16.988		5.816	5508.293	4151.272		17
17	16			"	3.100	"	"	2.959			926.554	1652.415	4150.366	16
16	15			256°37'20"	4.500	"	"	1.344		4.295	5519.908	4166.051		15
	17											5538.293	4151.272	17
17	18			75°37'20"	9.000	298671	954356	2.688		8.589		5140.981	4159.861	18
18	19			"	5.000	"	"	1.493		4.772		5542.474	4166.333	19
19	20			162°37'20"	4.101	"	"	3.914		1.625		5538.560	4165.858	20
	21											5556.114	4136.114	21
21	23			162°37'20"	17.200	298671	954356	16.215		5.137		5560.269	4141.751	23
	22											5579.293	4170.000	22
	20											5596.175	4142.000	20
	19											5598.586	4130.000	19
	17											5599.114	4120.000	17
	15											5599.114	4110.000	15
	13											5599.114	4100.000	13
	11											5599.114	4090.000	11
	9											5599.114	4080.000	9
	7											5599.114	4070.000	7
	5											5599.114	4060.000	5
	3											5599.114	4050.000	3
	1											5599.114	4040.000	1

算出点  $\delta$



$$\begin{aligned} 22^\circ X_2 &= - 55001.269 \\ 28^\circ X_1 &= - 55111.055 \\ \hline \Delta X &= - 12161.096 \end{aligned}$$

$$\alpha = 148^\circ - 22^\circ - 12^\circ$$

$$\beta = 22^\circ - 22^\circ - 2^\circ$$

$$\beta - \alpha = 12^\circ - 6^\circ - 6^\circ$$

$$\begin{aligned} \Delta Y \times \textcircled{2} &= 9146.1196 \\ \Delta X \times \textcircled{4} &= 9146.1196 \\ \hline E &= 1829.2392 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 20.7968$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 7120.183 \\ X_1 &= - 21111.055 \\ \hline X &= - 5544.038 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9146.1196 \\ Y_1 &= - 11111.055 \\ \hline Y &= - 4121.935 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 4121.1751 \\ Y_1 &= - 4121.1751 \\ \hline \Delta Y &= - 1111.055 \end{aligned}$$

$$\cos \alpha = + 0.1999999999 \textcircled{1}$$

$$\sin \alpha = 0.1199999999 \textcircled{2}$$

$$\cos \beta = 0.9999999999 \textcircled{3}$$

$$\sin \beta = 0.1999999999 \textcircled{4}$$

$$\sin(\beta - \alpha) = + 0.1999999999 \textcircled{5}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 7120.183 \\ \Delta X \times \textcircled{2} &= 9146.1196 \\ \hline F &= 12161.096 \end{aligned}$$

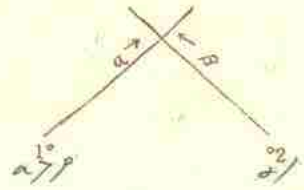
$$S_2 = \frac{F}{\textcircled{5}} = 20.7968$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0112.211 \\ X_2 &= - 11111.055 \\ \hline X &= - 5544.038 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9146.1196 \\ Y_2 &= - 11111.055 \\ \hline Y &= - 4121.935 \end{aligned}$$

59

算出点  $\delta$



$$\begin{aligned} 21^\circ X_2 &= - 55516.1743 \\ 27^\circ X_1 &= - 55426.1645 \\ \hline \Delta X &= - 1111.055 \end{aligned}$$

$$\alpha = 21^\circ - 27^\circ - 6^\circ$$

$$\beta = 27^\circ - 27^\circ - 2^\circ$$

$$\beta - \alpha = 2^\circ - 6^\circ - 4^\circ$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0115.06247 \\ \Delta X \times \textcircled{4} &= 0112.00389 \\ \hline E &= 116.94142 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 117.101117$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 7116.1111 \\ X_1 &= - 1111.055 \\ \hline X &= - 5544.0356 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9116.1111 \\ Y_1 &= - 1111.055 \\ \hline Y &= - 4116.1111 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 41371.12115 \\ Y_1 &= - 41260.16645 \\ \hline \Delta Y &= - 1111.055 \end{aligned}$$

$$\cos \alpha = + 0.1817111111 \textcircled{1}$$

$$\sin \alpha = 0.4817111111 \textcircled{2}$$

$$\cos \beta = 0.1291818181 \textcircled{3}$$

$$\sin \beta = 0.1954181818 \textcircled{4}$$

$$\sin(\beta - \alpha) = - 0.1917111111 \textcircled{5}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 7116.1111 \\ \Delta X \times \textcircled{2} &= 0116.113284 \\ \hline F &= 120.193148 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 121.131217$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0116.113284 \\ X_2 &= - 1111.055 \\ \hline X &= - 5544.0356 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 91210.1100 \\ Y_2 &= - 1111.055 \\ \hline Y &= - 4116.1111 \end{aligned}$$

60





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
60											
筆番号	1	5486.490	-	⊖ 1.965	4147.264	-	+	27.092	988.587	,	93.267
97~1	a 83	5494.966	-	⊖ 8.619	4141.176	-	+	7.943	357.165	,	354.896
	a 82	5495.109	-	⊖ 10.158	4139.521	-	+	9.824	463.151	,	397.502
	cpick II	5505.024	-	⊖ 19.365	4131.852	-	⊖	22.027	,	1212.014	607.131
	2	5514.474	-	+	12.023	4161.548	-	⊖	36.916	2380.122	739.992
	6	5493.001	-	+	27.984	4168.268	-	+	14.084	605.626	1910.412

控除シタル値

X = 於テ 5450

y = 於テ 4100

$$\bar{z} = \frac{2394.529 + 3592.136 + 2650.404 + 1452.796}{4} = 2297.715$$

$$2S = 1197.607$$

$$1197.608$$

$$S = 598.804$$

年 月 日

181.138坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
60											
筆番号	3	5522.671	-	⊖ 28.995	4187.707	-	⊖	9.948	1220.331	,	2543.934
80~Z	cpick III	5528.093	-	⊖ 3.103	4205.062	-	⊖	21.756	2786.791	,	326.007
	cpick III <sub>2</sub>	5525.774	-	+	22.517	4209.493	-	⊖	10.752	1352.322	2465.454
	4	5505.576	-	+	26.676	4215.814	-	+	14.379	1518.077	3089.454
	5	5499.098	-	⊖ 17.095	4195.114	-	+	28.077	2782.374	,	1626.974

控除シタル値

X = 於テ 5400.-

y = 於テ 4100.-

$$\bar{z} = \frac{4200.451 + 5359.444 + 5554.908 + 4495.915}{4} = 5292.679$$

$$2S = 1058.993$$

$$1058.993$$

$$S = 529.4965$$

年 月 日

150.172坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
60 筆番号 (57)	8	5436.785	-	⊖ 13.468 4196.884	-	-	↑ 44.688 1641.167				1276.581
	186	5457.102	-	⊖ 29.060 4171.342	-	-	↑ 36.461 2082.672				2786.619
	085	5475.785	-	⊖ 17.767 4158.255	-	-	↑ 15.261 1156.555				1036.793
	084	5474.875	-	⊖ 10.705 4156.081	-	-	↑ 10.891 815.464				600.347
	1	5486.490	-	⊖ 12.126 4147.464	-	-	⊖ 12.187		1054.054		860.332
	6	5493.001	-	⊖ 27.984 4168.668	-	-	⊖ 14.084		1309.826		1910.412
	8	5514.474	-	⊖ 29.670 4161.548	-	-	⊖ 19.449		2228.694		1826.129
	3	5527.671	-	↑ 15.376 4187.737	-	-	⊖ 33.566		4117.575 1349.044		
	5	5499.098	-	↑ 17.095 4195.114	-	-	⊖ 28.077		2782.375 1625.974		

控除シタル値

X = 於テ

y = 於テ

Σ =

2S =

S =

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号	4	5525.576	-	↑ 47.935 4215.814	-	-	⊖ 37.603		3969.774 5505.218		
	7	5451.563	-	↑ 59.697 4232.717	-	-	↑ 5.513 26.451			7922.807	
	9	5445.879	-	↑ 7.917 4215.301	-	-	↑ 16.687 765.583			912.838	
	10	5443.646	-	↑ 9.154 4216.030	-	-	↑ 20.477 893.739			1062.139	

控除シタル値

X = 於テ 5400

y = 於テ 4100

Σ = 7381 22125462 29818678 28010897 153

2S = 8080.907

8180.867

S = 4040.454

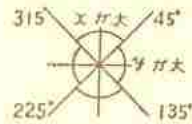
1022.2374

年 月 日

多角点計算用紙

60

測量No.



象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	+

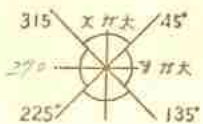
測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	9109I											5410.730	4192.006	9109I
9109I	a87			15 14 14	23.842							5433.724	4198.272	a87
a87	8		35.659	310 57 22	7.304									8
8	a86			310 57 33	28.955							5457.108	4171.342	a86
a86	a85			325 11 14	22.748							5475.785	4158.355	a85
a85	a84			248 11 24	2.449							5476.875	4166.081	a84
a84	1		25.016	323 25 45	14.462							5486.490	4147.464	1
1	a83				10.554							5494.966	4141.176	a83
a83	a82			274 56 18	1.661							5495.109	4139.521	a82
a82	9104II			320 30 50	12.847							5505.074	4131.352	9104II
9104II	2		77.236	72 37 20	31.640	298671	954356	9.450		30.196		5516.474	4161.548	2
2	3			"	27.442	"	"					5522.671	4187.797	3
3	9105III			"	18.154	"	"	5.422		17.325		5528.093	4205.062	9105III
9105III	9105II			"	3.536	"	"					5529.149	4208.437	" II
9105II	9105II <sub>2</sub>			162 37 20	3.536							5525.774	4209.498	" II <sub>2</sub>
9105II <sub>2</sub>	4		100.425	"	21.165	298671	954356		20.198	6.321		5505.576	4215.314	4
4	7			"	22.875							5421.563	4232.717	7
7	9110VI			"	56.597				75.653	23.676		5429.924	4239.489	9110VI
9110VI	9110IV			"	3.514							5426.570	4240.539	" IV
9110IV	9110IV <sub>2</sub>			251 55 30	3.514							5425.480	4237.198	" IV <sub>2</sub>
9110IV <sub>2</sub>	9109I			"	47.538							5410.730	4192.006	9109I

協和建設測量

多角点計算用紙

60

測量No.

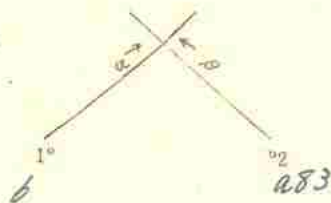


象	I	+	+	+
限	II	-	-	-
	III	-	-	-
	IV	+	+	+

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
-	4	"		"	.	.	.	.	.	.	.	5505.576	4215.814	4
4	5			252 37 20	21.690	298671	954356	6.478	20.700	20.700	5499.098	4195.114	5	
	2			72 37 20	.	298671	954356	.	.	.	5514.474	4161.548	2	
2	6	90 00 00		162 37 20	22.500	"	"	21.473	6.720	6.720	5498.001	4168.268	6	
	9110				.	.	.	.	.	.	5476.570	4070.539	9110	
9110	7			346 37 20	26.188	298671	954356	24.993	7.808	7.808	5455.563	4238.717	7	
7	9			251 55 30	18.320	310262	950651	5.684	17.916	17.916	5445.879	4215.301	9	
9	10			161 55 30	23.49	"	"	2.232	7.89	7.89	5443.646	4216.030	10	

(60)

算出点 1



$$\begin{aligned} 283 \quad X_2 &= -54941.966 \\ 6 \quad X_1 &= -54931.001 \\ \hline \Delta X &= +111.965 \end{aligned}$$

$$\begin{aligned} \alpha &= 252^\circ - 27' - 20'' \\ \beta &= 143^\circ - 25' - 25'' \\ \beta - \alpha &= 170^\circ - 28' - 25'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +121.75815 \\ \Delta X \times \textcircled{4} &= +111.16881 \\ \hline E &= 120.58934 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 21.08011$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 9 \quad 116.511 \\ X_1 &= -54931.001 \\ \hline X &= -54866.490 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9 \quad 120.806 \\ Y_1 &= -41681.268 \\ \hline Y &= -41547.462 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4141.176 \\ Y_1 &= -41681.268 \\ \hline \Delta Y &= -127.092 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 9.2986171 \quad \textcircled{1} \\ \text{Sin} \alpha &= 9.9544356 \quad \textcircled{2} \\ \text{Cos} \beta &= 9.8103121 \quad \textcircled{3} \\ \text{Sin} \beta &= +.5795816 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.1944416 \quad \textcircled{5} \end{aligned}$$

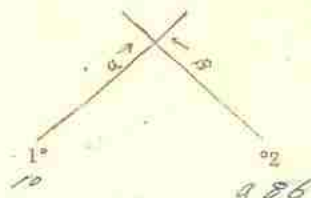
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +118.09159 \\ \Delta X \times \textcircled{2} &= 9 \quad 111.87231 \\ \hline F &= 119.96690 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 110.55355$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9 \quad 118.426 \\ X_2 &= -54941.966 \\ \hline X &= -54866.490 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= + \quad 116.2188 \\ Y_2 &= -4141.176 \\ \hline Y &= -4147.464 \end{aligned}$$

算出点 8



$$\begin{aligned} 486 \quad X_2 &= -51457.710 \\ 70 \quad X_1 &= -51469.686 \\ \hline \Delta X &= +11.976 \end{aligned}$$

$$\begin{aligned} \alpha &= 252^\circ - 27' - 20'' \\ \beta &= 143^\circ - 25' - 25'' \\ \beta - \alpha &= 170^\circ - 28' - 25'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +126.29392 \\ \Delta X \times \textcircled{4} &= +110.16619 \\ \hline E &= 129.12770 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 26.02077$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 9 \quad 116.1927 \\ X_1 &= -51469.686 \\ \hline X &= -51457.710 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9 \quad 121.2106 \\ Y_1 &= -41111.111 \\ \hline Y &= -41966.855 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4171.026 \\ Y_1 &= -41161.030 \\ \hline \Delta Y &= 91.004 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 9.2986171 \quad \textcircled{1} \\ \text{Sin} \alpha &= 9.9544356 \quad \textcircled{2} \\ \text{Cos} \beta &= 9.8103121 \quad \textcircled{3} \\ \text{Sin} \beta &= +.5795816 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.1944416 \quad \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= +119.86499 \\ \Delta X \times \textcircled{2} &= 9 \quad 121.2106 \\ \hline F &= 121.07564 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 19.10964$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9 \quad 118.426 \\ X_2 &= -51469.686 \\ \hline X &= -51457.710 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= + \quad 116.2106 \\ Y_2 &= -41161.030 \\ \hline Y &= -41966.855 \end{aligned}$$