

氏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

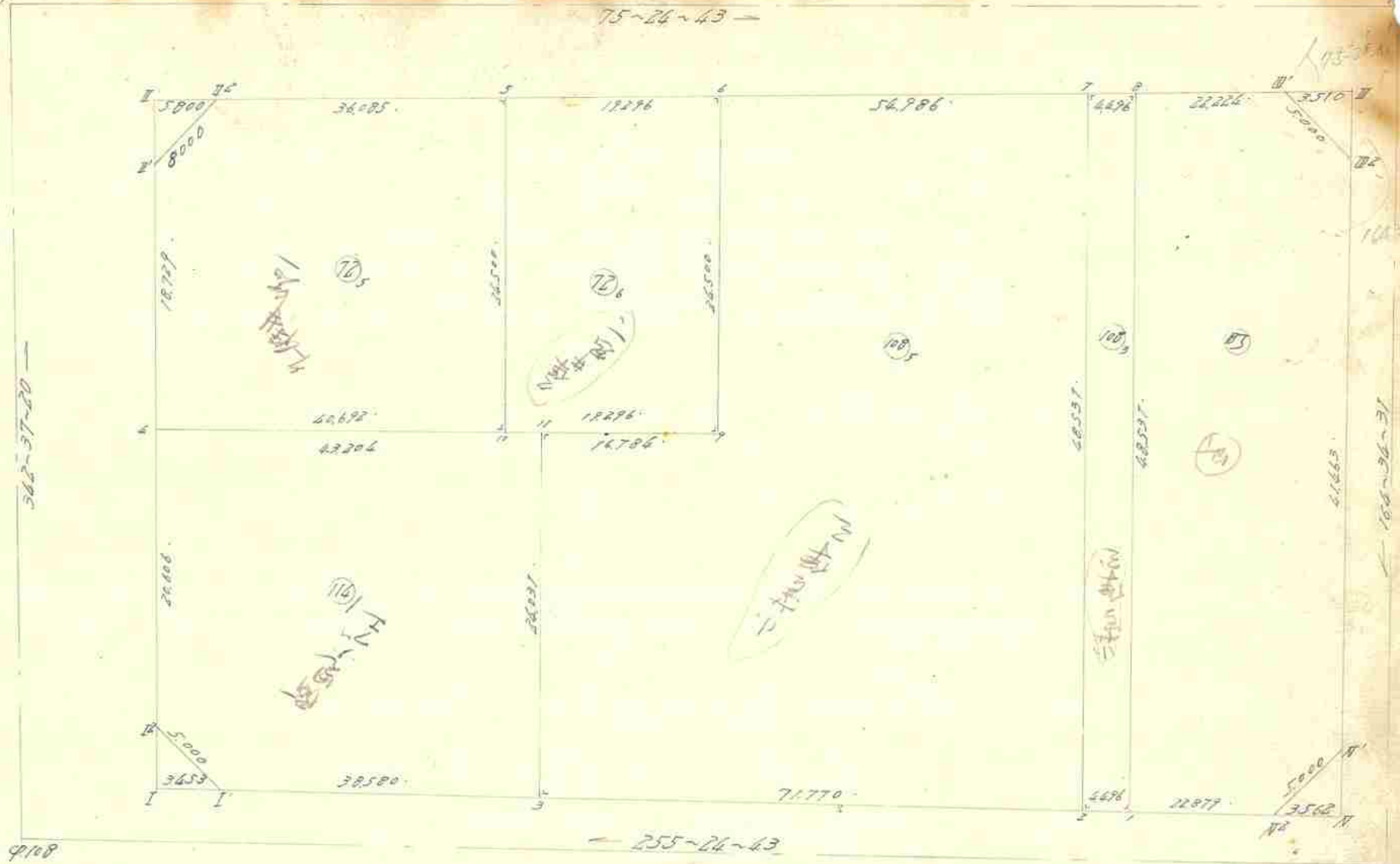
全4冊の内 4 (61~79)

宇都宮市清住町2-781  
協和建設測量有限公司  
電話(2)5727番

61

92125

75-24-43



362-37-20

9118

255-24-43

9107

16回  
 1. 荒作田  
 2. 荒作田



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	
	9107 <sup>N</sup>	° ' "		° ' "	.			.	.	.	.	5518.816	4378.606	9107 <sup>N</sup>
9107 <sup>N</sup>	9107 <sup>N</sup>			255 24.43	3.562			.	.	.	.	5518.917	4376.159	9107 <sup>N</sup>
9107 <sup>N</sup>	1			"	28.879			.	.	.	.	5513.154	4354.018	1
1	2	137.725		"	4.496			.	.	.	.	5512.072	4348.667	2
2	3			"	71.770			.	.	.	.	5493.945	4280.210	3
3	9108 <sup>E</sup>			"	38.580			.	.	.	.	5486.228	4242.876	9108 <sup>E</sup>
9108 <sup>E</sup>	9108 <sup>E</sup>			"	3.453			.	.	.	.	5483.358	4239.532	9108 <sup>E</sup>
9108 <sup>E</sup>	9108 <sup>E</sup>			342 37.20	3.453			.	.	.	.	5486.653	4238.501	9108 <sup>E</sup>
9108 <sup>E</sup>	4	39.335		"	20.606			.	.	.	.	5506.319	4236.346	4
4	9105 <sup>E</sup>			"	18.729			.	.	.	.	5524.193	4226.752	9105 <sup>E</sup>
9105 <sup>E</sup>	9105 <sup>E</sup>			"	5.800			.	.	.	.	5529.728	4225.020	9105 <sup>E</sup>
9105 <sup>E</sup>	9105 <sup>E</sup>			75 24.43	5.800			.	.	.	.	5534.189	4224.633	9105 <sup>E</sup>
9105 <sup>E</sup>	5			"	36.085			.	.	.	.	5540.278	4225.555	5
5	6			"	19.296			.	.	.	.	5565.138	4284.229	6
6	7	137.087		"	54.986			.	.	.	.	5538.987	4337.442	7
7	8			"	4.496			.	.	.	.	5560.119	4341.793	8
8	9106 <sup>E</sup>			"	22.224			.	.	.	.	5565.717	4363.300	9106 <sup>E</sup>
9106 <sup>E</sup>	9106 <sup>E</sup>			"	3.510			.	.	.	.	5566.601	4366.697	9106 <sup>E</sup>
9106 <sup>E</sup>	9106 <sup>E</sup>			164 34.31	3.510			.	.	.	.	5563.217	4367.631	9106 <sup>E</sup>
9106 <sup>E</sup>	9107 <sup>N</sup>			"	41.463			.	.	.	.	5523.248	4378.659	9107 <sup>N</sup>
9107 <sup>N</sup>	9107 <sup>N</sup>			"	3.562			.	.	.	.	5518.816	4378.606	9107 <sup>N</sup>

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)	+	-	+	-				
61	筆番号	10	5,516,568	-	+	33,959	4,271,726	-	+	33,209	550,207	-	+	17,565,563	-
	725	4	5,506,319	-	⊖	7,625	4,232,346	-	+	44,974	286,191	-	+		94,138
		9105 <sup>+</sup>	5,524,193	-	⊖	24,870	4,226,752	-	+	1,713	41,443	-	+		167,978
		9105 <sup>+</sup>	5,531,189	-	⊖	16,085	4,230,633	-	⊖	38,803		1210,227	-	+	171,032
		5	5,540,278	-	+	14,621	4,265,555	-	⊖	41,093		1655,144	+	666,060	-
				-	-			-				-			
				-	-			-				-			
				-	-			-				-			
				-	-			-				-			
				-	-			-				-			

控除シタル値

X=於テ 5,500

y=於テ 4,220

$$\bar{z} = \frac{875,841}{28} = \frac{2,865,371}{1989,530} = \frac{2,422,623}{1989,531} = \frac{433,092}{300,927} \text{ 年 月 日}$$

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)	+	-	+	-				
61	筆番号	9	5,521,428	-	+	22,570	4,290,400	-	+	12,503	267,914	-	+	2592,928	-
	728	10	5,516,568	-	⊖	19,850	4,271,726	-	+	24,845	411,638	-	+		1,352,035
		5	5,540,278	-	⊖	22,570	4,265,555	-	⊖	12,513		503,596	-	+	1,872,906
		6	5,543,138	-	+	19,850	4,284,229	-	⊖	24,845		1121,454	+	1,587,717	-
				-	-			-				-			
				-	-			-				-			
				-	-			-				-			
				-	-			-				-			
				-	-			-				-			
				-	-			-				-			

控除シタル値

X=於テ 5,500

y=於テ 4,200

$$\bar{z} = \frac{679,546}{28} = \frac{1625,050}{945,504} = \frac{4170,445}{945,504} = \frac{9724}{143,00 \pm \text{坪}} \text{ 年 月 日}$$

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)	+	-	+	-
61 筆番号 114	3	5,493,945	-	+ 32,973	4,280,210	-	+ 31,283	436,241	,	1655,574	,
	9/108 <sup>1</sup>	5,484,228	-	+ 7,292	4,262,874	-	+ 41,709	176,346	,	93,877	,
	9/108 <sup>2</sup>	5,486,653	-	9 22,091	4,238,501	-	+ 10,528	70,043	,	,	127,796
	4	5,506,319	-	9 30,548	4,232,346	-	9 35,656	,	938,430	,	71,666
	11	5,517,201	-	+ 12,374	4,274,157	-	9 47,864	,	1780,589	546,399	,
	,	,	-	-	,	-	-	,	,	,	,

控除シタル値

X = 於テ 5,480

y = 於テ 4,230

$$\Sigma = \frac{682,630}{25} = 27,305.2$$

$$\Sigma = \frac{2,719,019}{25} = 108,760.8$$

$$S = \frac{1,018,194}{308,000} \text{ 年 月 日}$$

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)	+	-	+	-
61 筆番号 108,5	2	5,512,022	-	+ 65,042	4,349,667	-	+ 57,232	1860,363	,	6488,541	,
	3	5,493,945	-	9 5,179	4,280,210	-	+ 75,510	297,887	,	,	156,458
	11	5,517,201	-	9 27,483	4,274,157	-	9 10,190	,	277,179	,	663,907
	9	5,521,428	-	9 27,937	4,290,400	-	9 10,072	,	316,543	,	1128,655
	6	5,545,138	-	9 37,559	4,284,229	-	9 47,042	,	2593,908	,	1825,607
	7	5,558,987	-	+ 33,116	4,337,442	-	9 65,438	,	4514,371	2895,729	,
	,	,	-	-	,	-	-	,	,	,	,

控除シタル値

X = 於テ 5,490

y = 於テ 4,250

$$\Sigma = \frac{1,538,250,770.1}{25} = 61,530,228.4$$

$$\Sigma = \frac{6,143,644}{25} = 245,745.6$$

$$S = \frac{3,071,872}{(929,230)} \text{ 年 月 日}$$

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)	+	-	+	-
61	筆番号	1 5,519.154	-	+ 48.097	4,354.018	-	9 7.874	, 109,575	2,598,104	,	,
108	2	5,512.022	-	+ 45.833	4,349.667	-	+ 16.576	199,277	,	2,076,388	,
	7	5,558.987	-	+ 48.097	4,337.442	-	+ 7.874	464,464	,	1,900,848	,
	8	5,560.119	-	+ 45.833	4,341.793	-	+ 16.576	, 996,533	1,915,499	,	,

控除シタル値  
 Xニ於テ 5,500.  
 yニ於テ 4,300.

$\Sigma = 663 \quad 741,100 \quad 1,024,513 \quad 6,034,077 \quad 2,235$   
 $2S = 436,367 \quad 436,368$   
 $S = 218,184$   
 (66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)	+	-	+	-
61	筆番号	9107 5,518.917	-	+ 10.094	4,378.159	-	+ 26.641	466,134	, 768,749	,	,
5	1	5,513.154	-	+ 41.202	4,354.018	-	+ 34.366	452,050	, 2,025,650	,	,
	8	5,560.119	-	+ 52.563	4,341.793	-	+ 9.282	, 558,025	, 2,196,765	,	,
	9116	5,565.717	-	+ 3.098	4,363.300	-	+ 25.838	, 1,697,996	, 196,103	,	,
	9116	5,563.217	-	+ 42.469	4,367.631	-	+ 15.359	, 970,950	2,072,221	,	,
	9107	5,523.248	-	+ 44.300	4,378.659	-	+ 8.528	, 198,259	3,434,594	,	,

控除シタル値  
 Xニ於テ 5,500.  
 yニ於テ 4,300.

$\Sigma = 918 \quad 1,947,425 \quad 2,797,125 \quad 5,644,618 \quad 518$   
 $2S = 2,507,046 \quad 2,507,046$   
 $S = 1,253,523$   
 (379.19坪) 年 月 日

多角点計算用紙

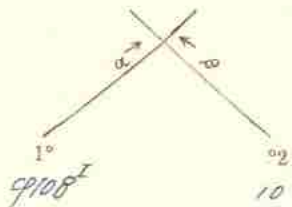
測量No. \_\_\_\_\_



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	
	9105 <sup>II</sup>	° 1 "		° 1 "	.			.	.	.	.	5509.728	4225.020	9105 <sup>II</sup>
9105 <sup>II</sup>	5			75 24 43	41.885	251882	967758	10.550	.	40.535	.	5540.278	4265.555	5
5	10			165 24 43	24.500	"	"	.	23.710	6.171	.	5516.568	4271.726	10
10	11	192 26 (		75 24 43	2.512	"	"	.633	.	2.431	.	5517.201	4274.157	11
11	9			"	16.784	"	"	4.228	.	16.243	.	5521.428	4290.400	9
9	6			345 24 43	24.500	"	"	23.710	.	6.171	5545.138	4286.229	6	
6	7			75 24 43	54.986	"	"	13.850	.	53.213	.	5558.987	4337.442	7
7	8			.	4.496	"	"	1.132	.	4.351	.	5560.119	4341.793	8
8	9106 <sup>III</sup>			"	25.724	"	"	6.482	.	24.904	.	5566.601	4366.697	9106 <sup>III</sup>
	3			.	.			.	.	.	.	5493.965	4280.210	3
3	2			75 24 43	71.770	251882	967758	18.078	.	69.456	.	5518.022	4349.667	2
2	1			"	4.496	"	"	1.132	.	4.351	.	5513.154	4354.018	1
1	9107 <sup>IV</sup>			"	26.441	"	"	6.460	.	25.588	.	5519.244	4379.606	9107 <sup>IV</sup>

算出點 4



$$\begin{aligned} 10 \quad X_2 &= -5151.61 \cdot 568 \\ 9108 \quad X_1 &= -5148.13 \cdot 158 \\ \Delta X &= -1 \cdot 131.02 \cdot 16 \end{aligned}$$

$$\begin{aligned} \alpha &= 1342^\circ - 57' - 30'' \\ \beta &= 255^\circ - 24' - 43'' \\ \beta - \alpha &= 192^\circ - 47' - 13'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0 \quad | \quad 1181 \cdot 10864 \\ \Delta X \times \textcircled{4} &= 0 \quad | \quad 1321 \cdot 13938 \\ E &= \quad | \quad 1241 \cdot 06264 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = \quad | \quad 1241 \cdot 05593$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + \quad | \quad 1181 \cdot 10864 \\ X_1 &= - \quad | \quad 5148.13 \cdot 158 \\ X &= - \quad | \quad 5150.61 \cdot 16 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0 \quad | \quad 1171 \cdot 1816 \\ Y_1 &= - \quad | \quad 5148.13 \cdot 158 \\ Y &= - \quad | \quad 5148.13 \cdot 16 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4271 \cdot 1726 \\ Y_1 &= -4271 \cdot 1532 \\ \Delta Y &= -1 \cdot 131 \cdot 194 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= + \cdot 195643561 \quad \textcircled{1} \\ \sin \alpha &= 0 \cdot 2988677 \quad \textcircled{2} \\ \cos \beta &= 0 \cdot 25118681 \quad \textcircled{3} \\ \sin \beta &= 0 \cdot 196171621 \quad \textcircled{4} \\ \sin(\beta - \alpha) &= - \cdot 199881151 \quad \textcircled{5} \end{aligned}$$

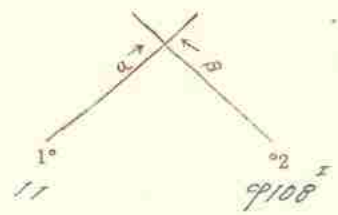
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + \quad | \quad 1301 \cdot 72254 \\ \Delta X \times \textcircled{2} &= 0 \quad | \quad 119 \cdot 195886 \\ F &= \quad | \quad 1140 \cdot 162340 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = \quad | \quad 1401 \cdot 16916$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0 \quad | \quad 1110 \cdot 1249 \\ X_2 &= - \quad | \quad 5151.61 \cdot 568 \\ X &= - \quad | \quad 5150.61 \cdot 16 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \quad | \quad 1319 \cdot 1380 \\ Y_2 &= - \quad | \quad 4271 \cdot 1726 \\ Y &= - \quad | \quad 4271 \cdot 1316 \end{aligned}$$

算出點 3



$$\begin{aligned} 9108 \quad X_2 &= -5148.13 \cdot 158 \\ 11 \quad X_1 &= -5151.71 \cdot 1207 \\ \Delta X &= 2 \cdot 131 \cdot 0143 \end{aligned}$$

$$\begin{aligned} \alpha &= 165^\circ - 30' - 43'' \\ \beta &= 170^\circ - 24' - 43'' \\ \beta - \alpha &= 190^\circ - 04' - 00'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0 \quad | \quad 1181 \cdot 10864 \\ \Delta X \times \textcircled{4} &= 0 \quad | \quad 1321 \cdot 13938 \\ E &= \quad | \quad 1144 \cdot 103104 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = \quad | \quad 111 \cdot 1111$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 0 \quad | \quad 1181 \cdot 10864 \\ X_1 &= - \quad | \quad 5151.71 \cdot 1207 \\ X &= - \quad | \quad 5149.39 \cdot 16 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + \quad | \quad 1171 \cdot 1816 \\ Y_1 &= - \quad | \quad 4271 \cdot 1532 \\ Y &= - \quad | \quad 4278.01 \cdot 110 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4271 \cdot 1532 \\ Y_1 &= -4271 \cdot 1532 \\ \Delta Y &= 2 \cdot 131 \cdot 1625 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= 0 \cdot 195643561 \quad \textcircled{1} \\ \sin \alpha &= + \cdot 2988677 \quad \textcircled{2} \\ \cos \beta &= + \cdot 25118681 \quad \textcircled{3} \\ \sin \beta &= + \cdot 196171621 \quad \textcircled{4} \\ \sin(\beta - \alpha) &= - \cdot 1111111 \quad \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= + \quad | \quad 1319 \cdot 1380 \\ \Delta X \times \textcircled{2} &= 0 \quad | \quad 119 \cdot 195886 \\ F &= \quad | \quad 1142 \cdot 103093 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = \quad | \quad 111 \cdot 1111$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + \quad | \quad 1110 \cdot 1249 \\ X_2 &= - \quad | \quad 5148.13 \cdot 158 \\ X &= - \quad | \quad 5149.39 \cdot 16 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= + \quad | \quad 1319 \cdot 1380 \\ Y_2 &= - \quad | \quad 4271 \cdot 1532 \\ Y &= - \quad | \quad 4278.01 \cdot 110 \end{aligned}$$





面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	△X+△Xn+1	Yn	Yn-Yn+1	△yn+△yn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
62	14	5,468.379	-	+ 35.378	4,295.263	-	+ 40.376	742.071		1,955.059	
筆番号	5	5,454.629	-	⊖ 5.787	4,248.523	-	+ 52.853	264.657			49.323
9108 <sup>1</sup>	5,474.166	-	⊖ 23.910	4,242.409	-	+ 3.689	89.148				57.599
9108 <sup>2</sup>	5,478.539	-	⊖ 15.861	4,246.834	-	⊖ 46.490		1,326.778			76.575
6	5,490.007	-	+ 10.160	4,288.899	-	⊖ 50.428		2,017.473	496.814		
		-			-						
		-			-						
		-			-						
		-			-						
		-			-						
		-			-						

控除シタル値

X=於テ 5,650

y=於テ 4,240

$$\Sigma = \frac{11,075.876}{2S} = \frac{3,344.251}{2,268.375} = \frac{2,451.873}{2,268.376} = \frac{183.497}{343.094}$$

S = 1,134.188

343.094

年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	△X+△Xn+1	Yn	Yn-Yn+1	△yn+△yn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
62	2	5,465.245	-	+ 22.679	4,359.043	-	+ 1.813	9.509		431.876	
筆番号	3	5,442.719	-	⊖ 17.856	4,351.301	-	+ 12.738	37.354			201.791
12	5,483.101	-	⊖ 22.679	4,345.305	-	+ 1.813			41.824		120.312
11	5,485.398	-	+ 17.856	4,353.114	-	⊖ 12.738			348.918	234.164	
		-			-						
		-			-						
		-			-						
		-			-						
		-			-						
		-			-						

控除シタル値

X=於テ 5,460

y=於テ 4,340

$$\Sigma = \frac{46.863}{2S} = \frac{390.000}{363.937} = \frac{666.040}{363.937} = \frac{322.103}{52.024}$$

363.937

S = 171.968

52.024

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)	+	-	+	-
62	4	5439.565	-	+ 29.411	4280.359	-	+ 14.812	139.764		1186.999	
筆番号	9/110 <sup>2</sup>	5438.638	-	+ 4.626	4259.132	-	+ 25.670	67.717		88.696	
117	9/110 <sup>2</sup>	5434.929	-	0 21.991	4254.689	-	+ 10.609	52.892			323.026
	5	5454.629	-	0 27.120	4248.523	-	0 19.055		469.366		231.164
	15	5462.049	-	+ 15.064	4273.744	-	0 31.836		1020.312	508.320	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5430  
 y = 於テ 4840

$$\Sigma = \frac{259.773}{25} = \frac{1489.618}{1229.845} \quad \frac{1784.015}{1229.845}$$

$$S = \frac{556.170}{614.922} \quad \frac{186.019}{186.019}$$

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)	+	-	+	-
62	3	5462.719	-	+ 43.536	4351.301	-	+ 64.946	2124.968		3539.520	
筆番号	4	5439.565	-	+ .670	4280.359	-	+ 77.557	741.833		6.941	
117	15	5462.049	-	0 43.536	4273.744	-	0 64.946		2081.454		162.999
	12	5483.101	-	0 .670	4345.305	-	0 77.557		4118.354		50.454
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5430  
 y = 於テ 4270

$$\Sigma = \frac{2866.801}{25} = \frac{6199.808}{3239.007} \quad \frac{3546.461}{3239.008}$$

$$S = \frac{213.453}{1666.504} \quad \frac{504.129}{504.129}$$

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>	△X+△X <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	△y <sub>n</sub> +△y <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
62											
筆番号	9112 <sup>ア</sup>	5,476.838	-	+ 11.945	4,388.433	-	+ 25.471	377.939			697.982
1002	1	5,467.298	-	+ 12.426	4,365.329	-	+ 28.978	211.481			438.998
	10	5,487.264	-	+ 15.845	4,359.455	-	+ 19.880	542.008			466.714
	9	5,483.143	-	+ 15.926	4,345.449	-	+ 19.904	460.638			246.061
	8	5,503.190	-	+ 20.003	4,339.551	-	+ 32.356		1,397.456		286.559
	9107 <sup>ア</sup>	5,513.146	-	+ 7.456	4,377.805	-	+ 42.635		2,265.880		356.434
	9107 <sup>イ</sup>	5,510.646	-	+ 33.903	4,382.186	-	+ 12.995		658.145	1,769.262	
	9112 <sup>イ</sup>	5,479.263	-	+ 35.808	4,390.800	-	+ 6.247		120.211	2,177.126	

控除シタル値

X=於テ 5,460

Y=於テ 4,350

$$\bar{x} = \frac{1592.066}{10} = 159.2066$$

$$\bar{y} = \frac{2849.626}{10} = 284.9626$$

$$S = 1424.913$$

431.00 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>	△X+△X <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	△y <sub>n</sub> +△y <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
62											
筆番号	1	5,467.298	-	+ 22.019	4,365.329	-	+ .412	3.007			337.529
1004	2	5,465.245	-	+ 18.100	4,359.043	-	+ 12.215	64.068			163.678
	11	5,485.398	-	+ 22.019	4,353.114	-	+ .412		10.464		68.567
	10	5,487.264	-	+ 18.100	4,359.455	-	+ 12.215		233.030	171.136	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X=於テ 5,460

Y=於テ 4,350

$$\bar{x} = \frac{67.075}{10} = 6.7075$$

$$\bar{y} = \frac{276.419}{10} = 27.6419$$

$$S = 138.210$$

41.817 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)	+	-	+	-
62											
筆番号	16	5471.905	-	+ 26.7764307.247	-	-	+ 5.733	68.251	/	675.076	/
⑧	14	5468.379	-	① 18.1084295.262	-	-	+ 18.348	153.738	/	276.273	/
	6	5490.007	-	② 26.7764288.899	-	-	⑤ 5.733		172.030	/	220.482
	17	5493.155	-	+ 18.1084300.995	-	-	⑧ 18.348		608.328	380.251	/

控除シタル値

X = 於テ 5460. —

y = 於テ 4.280. —

$$\bar{x} = \frac{221 \ 989 \ 780 \ 358 \ 1055 \ 123 \ 491 \ 753}{28} = \frac{558 \ 369}{28} = 558 \ 368$$

$$S = 279 \ 184$$

年 月 日

84.6.29

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)	+	-	+	-
62											
筆番号	12	5475.521	-	+ 26.4864319.566	-	-	+ 6.182	34.180	/	479.093	/
⑧	16	5471.905	-	⑨ 17.6264307.247	-	-	+ 18.571	35.378	/	127.736	/
	17	5493.155	-	⑩ 26.4864300.995	-	-	⑥ 6.182		163.144	/	24.346
	7	5496.391	-	+ 17.6264313.429	-	-	⑩ 18.571		690.107	296.700	/

控除シタル値

X = 於テ 5470. —

y = 於テ 4.300. —

$$\bar{x} = \frac{69 \ 558 \ 633 \ 251 \ 715 \ 793 \ 132 \ 100}{28} = \frac{563 \ 693}{28} = 563 \ 693$$

$$S = 281 \ 847$$

年 月 日

85.2.19

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)	+	-	+	-
62	9	5,483.143	-	+ 27.661	4,345.449	-	+ 19.985	262.663		980.555	
筆番号 100	13	5,475.529	-	+ 13.248	4,319.566	-	+ 32.020	177.039			126.730
	7	5,496.391	-	+ 27.661	4,313.489	-	+ 19.985		527.436		94.850
	8	5,503.190	-	+ 13.248	4,339.551	-	+ 32.020		1,062.764	391.498	

控除シタル値

X = 於テ 5470

y = 於テ 4310

$$\Sigma = \underline{439.702} \quad \underline{1590.168} \quad \underline{1372.047} \quad \underline{221.580}$$

$$\Sigma S = \underline{1150.466}$$

$$\underline{1150.467}$$

$$S = \underline{575.233}$$

$$\underline{176.004}$$

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)	+	-	+	-
	13	5,475.529	-	+ 13.248	4,319.566	-	+ 32.020	177.039			126.730
	7	5,496.391	-	+ 27.661	4,313.489	-	+ 19.985		527.436		94.850
	8	5,503.190	-	+ 13.248	4,339.551	-	+ 32.020		1,062.764	391.498	

控除シタル値

X = 於テ

y = 於テ

$$\Sigma = \underline{439.702} \quad \underline{1590.168} \quad \underline{1372.047} \quad \underline{221.580}$$

$$\Sigma S = \underline{1150.466}$$

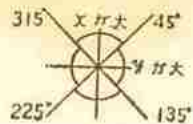
$$S = \underline{575.233}$$

$$\underline{176.004}$$

年 月 日

多角点計算用紙

測量No.



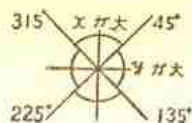
象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

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	
	9112 <sup>1</sup>	"		"	.			.	.	.	.	5475.911	4391.719	9112 <sup>1</sup>
9112 <sup>1</sup>	9112 <sup>2</sup>			251 55 30	3.457			.	.	.	.	5474.838	4388.433	9112 <sup>2</sup>
9112 <sup>2</sup>	1			"	24.303			.	.	.	.	5467.298	4365.329	1
1	2			"	6.613			.	.	.	.	5465.245	4359.043	2
2	3	136.013		"	8.144			.	.	.	.	5462.719	4351.301	3
3	4			"	74.625			.	.	.	.	5439.565	4280.359	4
4	9110 <sup>1</sup>			"	22.328			.	.	.	.	5432.638	4259.132	9110 <sup>1</sup>
9110 <sup>1</sup>	9110 <sup>2</sup>			"	3.557			.	.	.	.	5431.536	4255.751	9110 <sup>2</sup>
9110 <sup>2</sup>	9110 <sup>3</sup>			342 37 20	3.557			.	.	.	.	5434.929	4254.689	9110 <sup>3</sup>
9110 <sup>3</sup>	5			"	20.643			.	.	.	.	5454.629	4268.523	5
5	9108 <sup>1</sup>	41.114		"	20.471			.	.	.	.	5474.166	4242.409	9108 <sup>1</sup>
9108 <sup>1</sup>	9108 <sup>2</sup>			"	3.625			.	.	.	.	5477.626	4241.326	9108 <sup>2</sup>
9108 <sup>2</sup>	9108 <sup>3</sup>			75 24 43	3.625			.	.	.	.	5478.539	4244.836	9108 <sup>3</sup>
9108 <sup>3</sup>	6			"	45.533			.	.	.	.	5492.007	4288.899	6
6	17			"	12.489			.	.	.	.	5472.133	4300.225	17
17	7	127.401		"	12.847			.	.	.	.	5476.391	4313.429	7
7	8			"	26.994			.	.	.	.	5503.190	4332.551	8
8	9107 <sup>1</sup>			"	39.528			.	.	.	.	5513.166	4372.805	9107 <sup>1</sup>
9107 <sup>1</sup>	9107 <sup>2</sup>			"	3.510			.	.	.	.	5514.030	4381.212	9107 <sup>2</sup>
9107 <sup>2</sup>	9107 <sup>3</sup>			164 34 31	3.510			.	.	.	.	5510.646	4382.186	9107 <sup>3</sup>
9107 <sup>3</sup>	9112 <sup>2</sup>			"	32.576			.	.	.	.	5479.243	4394.800	9112 <sup>2</sup>
9112 <sup>2</sup>	9112 <sup>1</sup>			"	3.457			.	.	.	.	5475.911	4391.719	9112 <sup>1</sup>

協和建設測量

多角点計算用紙

測量No. \_\_\_\_\_

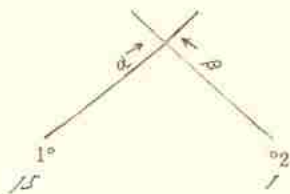


象	I	+	/	+	/
限	II	/	-	+	/
	III	/	-	-	/
	IV	+	/	-	/

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	
	9112 <sup>W</sup>											5475.911	4391.719	9112 <sup>W</sup>
9112 <sup>W</sup>	A			346 34 31	20.000	265977	963979	19.280			5.320	5495.191	4386.399	A
	9110 <sup>E</sup>											5431.534	4255.751	9110 <sup>E</sup>
9110 <sup>E</sup>	5			342 37 20	24.200	298671	954356	23.095			7.228	5456.629	4248.523	5
5	15			73 36 24	26.290	282230	959347	7.420		25.221		5462.049	4273.744	15
15	14			"	22.430	"	"	6.330		21.518		5468.379	4285.262	14
	10											5487.264	4359.455	10
10	11			253 36 24	6.610	282230	959347		1.866		6.341	5485.398	4353.114	11
11	9			"	7.990	"	"		2.255		7.665	5483.143	4345.449	9
9	12			"	.150	"	"		.042		.144	5483.101	4345.305	12
12	13			"	26.830	"	"		7.572		25.729	5475.529	4319.566	13
	9112 <sup>W</sup>											5475.911	4391.719	9112 <sup>W</sup>
9112 <sup>W</sup>	1			251 55 30	27.760	310262	950651		8.613		26.390	5447.298	4365.329	1
	14											5468.379	4295.262	14
14	16			73 36 24	12.423	282230	959347	2.526		11.909		5471.945	4307.247	16

協和建設測量

算出点 10



$$\begin{aligned} \frac{1}{15} X_2 &= -5467.0298 \\ \frac{15}{1} X_1 &= -5467.0298 \\ \Delta X &= -1111.1111 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4365.0389 \\ Y_1 &= -4365.0389 \\ \Delta Y &= -1111.1111 \end{aligned}$$

$$\alpha = 179^\circ - 15^\circ - 1^\circ$$

$$\cos \alpha = + \cdot 1.00000000 \quad ①$$

$$\beta = 143^\circ - 15^\circ - 1^\circ$$

$$\sin \alpha = + \cdot 0.01736482 \quad ②$$

$$\cos \beta = + \cdot 0.19509032 \quad ③$$

$$\sin \beta = 9 \cdot 0.28173851 \quad ④$$

$$\beta - \alpha = 127^\circ - 0^\circ - 0^\circ$$

$$\sin(\beta - \alpha) = -1.00000000 \quad ⑤$$

$$\Delta Y \times ③ = + 187.881779$$

$$\Delta Y \times ① = + 1111.1111$$

$$\Delta X \times ④ = 0.11111111$$

$$\Delta X \times ② = + 1111.1111$$

$$E = 1111.1111$$

$$F = 1111.1111$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1111.1111$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1111.1111$$

$$S_1 \times ① = + 1111.1111$$

$$S_2 \times ③ = + 1111.1111$$

$$X_1 = -5467.0298 (+)$$

$$X_2 = -5467.0298 (+)$$

$$X = -5467.0298$$

$$X = -5467.0298$$

$$S_1 \times ② = + 1111.1111$$

$$S_2 \times ④ = 9 \cdot 1111.1111$$

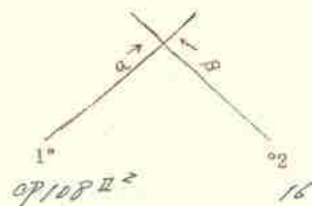
$$Y_1 = -4365.0389 (+)$$

$$Y_2 = -4365.0389 (+)$$

$$Y = -4365.0389$$

$$Y = -4365.0389$$

算出点 17



$$\begin{aligned} \frac{16}{09108} X_2 &= -14711.0905 \\ \frac{09108}{1} X_1 &= -14711.0905 \\ \Delta X &= -0.1111 \end{aligned}$$

$$\begin{aligned} Y_2 &= -14711.0905 \\ Y_1 &= -14711.0905 \\ \Delta Y &= -1111.1111 \end{aligned}$$

$$\alpha = 179^\circ - 16^\circ - 0^\circ$$

$$\cos \alpha = + \cdot 1.00000000 \quad ①$$

$$\beta = 179^\circ - 16^\circ - 0^\circ$$

$$\sin \alpha = + \cdot 0.27615731 \quad ②$$

$$\beta - \alpha = 179^\circ - 16^\circ - 0^\circ$$

$$\cos \beta = + \cdot 0.98480775 \quad ③$$

$$\sin \beta = 9 \cdot 0.17364818 \quad ④$$

$$\sin(\beta - \alpha) = - \cdot 0.27615731 \quad ⑤$$

$$\Delta Y \times ③ = + 1111.1111$$

$$\Delta Y \times ① = -1111.1111$$

$$\Delta X \times ④ = + 1111.1111$$

$$\Delta X \times ② = 0.1111$$

$$E = 1111.1111$$

$$F = 1111.1111$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1111.1111$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1111.1111$$

$$S_1 \times ① = + 1111.1111$$

$$S_2 \times ③ = + 1111.1111$$

$$X_1 = -14711.0905 (+)$$

$$X_2 = -14711.0905 (+)$$

$$X = -14711.0905$$

$$X = -14711.0905$$

$$S_1 \times ② = + 1111.1111$$

$$S_2 \times ④ = 9 \cdot 1111.1111$$

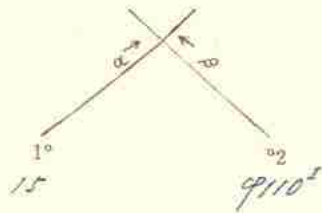
$$Y_1 = -14711.0905 (+)$$

$$Y_2 = -14711.0905 (+)$$

$$Y = -14711.0905$$

$$Y = -14711.0905$$

算出點 4



$$\begin{aligned} 9110^\circ X_2 &= - \frac{15}{15} \frac{1048}{1048} \cdot 1048 \\ 15 X_1 &= - \frac{1048}{1048} \cdot 1048 \\ \Delta X &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\alpha = 150^\circ - 36^\circ - 24''$$

$$\beta = 171^\circ - 15' - 30''$$

$$\beta - \alpha = 18^\circ - 19' - 6''$$

$$\begin{aligned} Y_2 &= - \frac{1048}{1048} \cdot 1048 \\ Y_1 &= - \frac{1048}{1048} \cdot 1048 \\ \Delta Y &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\text{Cos} \alpha = 0 \cdot 1048 \cdot 1048 \text{ ①}$$

$$\text{Sin} \alpha = + \cdot 1048 \cdot 1048 \text{ ②}$$

$$\text{Cos} \beta = + \cdot 1048 \cdot 1048 \text{ ③}$$

$$\text{Sin} \beta = + \cdot 1048 \cdot 1048 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 1048 \cdot 1048 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 9 \cdot 1048 \cdot 1048 \\ \Delta X \times \text{④} &= 9 \cdot 1048 \cdot 1048 \\ E &= \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = \frac{1048}{1048} \cdot 1048$$

$$\begin{aligned} S_1 \times \text{①} &= 9 \cdot 1048 \cdot 1048 \\ X_1 &= - \frac{1048}{1048} \cdot 1048 \\ X &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + \cdot 1048 \cdot 1048 \\ Y_1 &= - \frac{1048}{1048} \cdot 1048 \\ Y &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

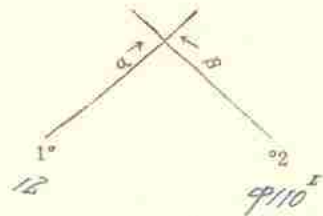
$$\begin{aligned} \Delta Y \times \text{①} &= + \cdot 1048 \cdot 1048 \\ \Delta X \times \text{②} &= 4 \cdot 1048 \cdot 1048 \\ F &= \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = \frac{1048}{1048} \cdot 1048$$

$$\begin{aligned} S_2 \times \text{③} &= + \cdot 1048 \cdot 1048 \\ X_2 &= - \frac{1048}{1048} \cdot 1048 \\ X &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= + \cdot 1048 \cdot 1048 \\ Y_2 &= - \frac{1048}{1048} \cdot 1048 \\ Y &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

算出點 3



$$\begin{aligned} 9110^\circ X_2 &= - \frac{12}{12} \frac{1048}{1048} \cdot 1048 \\ 12 X_1 &= - \frac{1048}{1048} \cdot 1048 \\ \Delta X &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\alpha = 150^\circ - 36^\circ - 24''$$

$$\beta = 171^\circ - 15' - 30''$$

$$\beta - \alpha = 18^\circ - 19' - 6''$$

$$\begin{aligned} Y_2 &= - \frac{1048}{1048} \cdot 1048 \\ Y_1 &= - \frac{1048}{1048} \cdot 1048 \\ \Delta Y &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\begin{aligned} Y_2 &= - \frac{1048}{1048} \cdot 1048 \\ Y_1 &= - \frac{1048}{1048} \cdot 1048 \\ \Delta Y &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\text{Cos} \alpha = 0 \cdot 1048 \cdot 1048 \text{ ①}$$

$$\text{Sin} \alpha = + \cdot 1048 \cdot 1048 \text{ ②}$$

$$\text{Cos} \beta = + \cdot 1048 \cdot 1048 \text{ ③}$$

$$\text{Sin} \beta = + \cdot 1048 \cdot 1048 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = - \cdot 1048 \cdot 1048 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 9 \cdot 1048 \cdot 1048 \\ \Delta X \times \text{④} &= 9 \cdot 1048 \cdot 1048 \\ E &= \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$S_1 = \left| \frac{E}{\text{⑤}} \right| = \frac{1048}{1048} \cdot 1048$$

$$\begin{aligned} S_1 \times \text{①} &= 9 \cdot 1048 \cdot 1048 \\ X_1 &= - \frac{1048}{1048} \cdot 1048 \\ X &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= + \cdot 1048 \cdot 1048 \\ Y_1 &= - \frac{1048}{1048} \cdot 1048 \\ Y &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

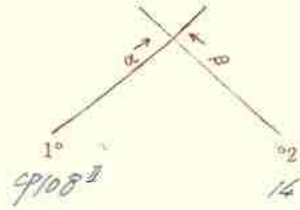
$$\begin{aligned} \Delta Y \times \text{①} &= + \cdot 1048 \cdot 1048 \\ \Delta X \times \text{②} &= 9 \cdot 1048 \cdot 1048 \\ F &= \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$S_2 = \left| \frac{F}{\text{⑤}} \right| = \frac{1048}{1048} \cdot 1048$$

$$\begin{aligned} S_2 \times \text{③} &= + \cdot 1048 \cdot 1048 \\ X_2 &= - \frac{1048}{1048} \cdot 1048 \\ X &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= + \cdot 1048 \cdot 1048 \\ Y_2 &= - \frac{1048}{1048} \cdot 1048 \\ Y &= - \frac{1048}{1048} \cdot 1048 \end{aligned}$$

算出点 6



$$\begin{aligned} X_2 &= -14.1111 \cdot 0.9998 \\ 9108^\circ X_1 &= -14.1111 \cdot 0.1994 \\ \Delta X &= -9.1111 \cdot 0.7994 \end{aligned}$$

$$\begin{aligned} \alpha &= 175^\circ - 84' - 43'' \\ \beta &= 174^\circ - 36' - 24'' \\ \beta - \alpha &= 1268^\circ - 48' - 41'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +1.1111 \cdot 0.7994 \\ \Delta X \times \textcircled{4} &= +1.1111 \cdot 0.1994 \\ E &= 1.1111 \cdot 0.5994 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 1.1111 \cdot 0.7994$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +1.1111 \cdot 0.9998 \\ X_1 &= -14.1111 \cdot 0.1994 \\ X &= -14.1111 \cdot 0.1002 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +1.1111 \cdot 0.1994 \\ Y_1 &= -14.1111 \cdot 0.9998 \\ Y &= -14.1111 \cdot 0.7994 \end{aligned}$$

$$\begin{aligned} Y_2 &= -14.1111 \cdot 0.1994 \\ Y_1 &= -14.1111 \cdot 0.9998 \\ \Delta Y &= -14.1111 \cdot 0.7994 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= +0.9998 \quad \textcircled{1} \\ \sin \alpha &= +0.1994 \quad \textcircled{2} \\ \cos \beta &= +0.9998 \quad \textcircled{3} \\ \sin \beta &= 0.1994 \quad \textcircled{4} \\ \sin(\beta - \alpha) &= -0.1994 \quad \textcircled{5} \end{aligned}$$

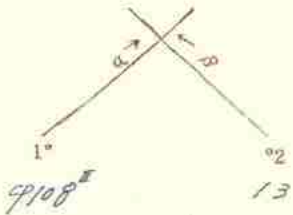
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1.1111 \cdot 0.9998 \\ \Delta X \times \textcircled{2} &= -9.1111 \cdot 0.1994 \\ F &= 1.1111 \cdot 0.7994 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 1.1111 \cdot 0.1994$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +1.1111 \cdot 0.9998 \\ X_2 &= -14.1111 \cdot 0.1994 \\ X &= -14.1111 \cdot 0.1002 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.1111 \cdot 0.1994 \\ Y_2 &= -14.1111 \cdot 0.9998 \\ Y &= -14.1111 \cdot 0.7994 \end{aligned}$$

算出点 7



$$\begin{aligned} X_2 &= -13.1111 \cdot 0.9998 \\ 9108^\circ X_1 &= -13.1111 \cdot 0.1994 \\ \Delta X &= -7.1111 \cdot 0.7994 \end{aligned}$$

$$\begin{aligned} \alpha &= 175^\circ - 84' - 43'' \\ \beta &= 174^\circ - 36' - 24'' \\ \beta - \alpha &= 1268^\circ - 48' - 41'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +1.1111 \cdot 0.7994 \\ \Delta X \times \textcircled{4} &= +1.1111 \cdot 0.1994 \\ E &= 1.1111 \cdot 0.5994 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 1.1111 \cdot 0.7994$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +1.1111 \cdot 0.9998 \\ X_1 &= -13.1111 \cdot 0.1994 \\ X &= -13.1111 \cdot 0.1002 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +1.1111 \cdot 0.1994 \\ Y_1 &= -13.1111 \cdot 0.9998 \\ Y &= -13.1111 \cdot 0.7994 \end{aligned}$$

$$\begin{aligned} Y_2 &= -13.1111 \cdot 0.1994 \\ Y_1 &= -13.1111 \cdot 0.9998 \\ \Delta Y &= -13.1111 \cdot 0.7994 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= +0.9998 \quad \textcircled{1} \\ \sin \alpha &= +0.1994 \quad \textcircled{2} \\ \cos \beta &= +0.9998 \quad \textcircled{3} \\ \sin \beta &= 0.1994 \quad \textcircled{4} \\ \sin(\beta - \alpha) &= -0.1994 \quad \textcircled{5} \end{aligned}$$

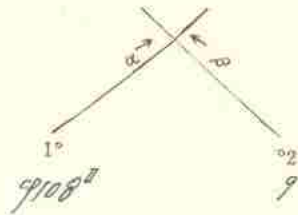
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1.1111 \cdot 0.9998 \\ \Delta X \times \textcircled{2} &= 0.1111 \cdot 0.1994 \\ F &= 1.1111 \cdot 0.7994 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 1.1111 \cdot 0.1994$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +1.1111 \cdot 0.9998 \\ X_2 &= -13.1111 \cdot 0.1994 \\ X &= -13.1111 \cdot 0.1002 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.1111 \cdot 0.1994 \\ Y_2 &= -13.1111 \cdot 0.9998 \\ Y &= -13.1111 \cdot 0.7994 \end{aligned}$$

算出点 8



$$\begin{aligned} X_2 &= -54833.1743 \\ X_1 &= -54777.0626 \\ \Delta X &= -56.1117 \end{aligned}$$

$$\alpha = 175^\circ - 26' - 43''$$

$$\beta = 123^\circ - 15' - 24''$$

$$\beta - \alpha = 262^\circ - 11' - 41''$$

$$\begin{aligned} Y_2 &= -44845.4449 \\ Y_1 &= -44111.0426 \\ \Delta Y &= -734.4023 \end{aligned}$$

- ①  $\cos \alpha = +0.1117$
- ②  $\sin \alpha = +0.9999$
- ③  $\cos \beta = +0.1047$
- ④  $\sin \beta = 0.9841$
- ⑤  $\sin(\beta - \alpha) = -0.1047$

$$\begin{aligned} \Delta Y \times ① &= +0.6117 \\ \Delta X \times ② &= +0.5617 \\ E &= 101.44975 \\ F &= 120.89615 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 101.44975$$

$$S_2 = \frac{F}{⑤} = 120.89615$$

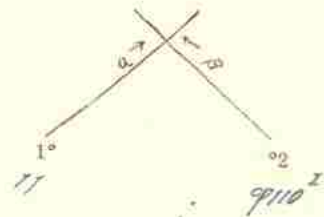
$$\begin{aligned} S_1 \times ① &= +0.1117 \\ X_1 &= -54777.0626 \\ X &= -54833.1743 \end{aligned}$$

$$\begin{aligned} S_2 \times ③ &= +0.1047 \\ X_2 &= -54833.1743 \\ X &= -54777.0626 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= +0.9999 \\ Y_1 &= -44111.0426 \\ Y &= -44845.4449 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0.9841 \\ Y_2 &= -44845.4449 \\ Y &= -44111.0426 \end{aligned}$$

算出点 2



$$\begin{aligned} X_2 &= -54833.1743 \\ X_1 &= -54777.0626 \\ \Delta X &= -56.1117 \end{aligned}$$

$$\alpha = 175^\circ - 26' - 43''$$

$$\beta = 123^\circ - 15' - 24''$$

$$\beta - \alpha = 262^\circ - 11' - 41''$$

$$\begin{aligned} \Delta Y \times ③ &= 0.6117 \\ \Delta X \times ④ &= 0.5617 \\ E &= 101.44975 \\ F &= 120.89615 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 101.44975$$

$$S_2 = \frac{F}{⑤} = 120.89615$$

$$\begin{aligned} S_1 \times ① &= 0.1117 \\ X_1 &= -54777.0626 \\ X &= -54833.1743 \end{aligned}$$

$$\begin{aligned} S_2 \times ③ &= +0.1047 \\ X_2 &= -54833.1743 \\ X &= -54777.0626 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= +0.9999 \\ Y_1 &= -44111.0426 \\ Y &= -44845.4449 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= +0.9841 \\ Y_2 &= -44845.4449 \\ Y &= -44111.0426 \end{aligned}$$

$$\begin{aligned} X_2 &= 154195 \cdot 1191 \\ X_1 &= 154151 \cdot 1629 \\ \hline \Delta X &= -44 \cdot 0412 \end{aligned} \quad \begin{aligned} Y_2 &= 123186 \cdot 1319 \\ Y_1 &= 123181 \cdot 1723 \\ \hline \Delta Y &= -5 \cdot 0434 \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta Y & \dots \\ \text{Log} \Delta X & \dots \\ \hline \text{Logtan} B & \dots \\ B & 73^\circ - 36' - 24'' \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta Y & \dots & \text{Log} \Delta X & \dots \\ \text{Logsin} B & \dots & \text{Logcos} B & \dots \\ \hline \text{Log} D & \dots & \text{Log} D & \dots \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= \dots \\ \Delta y_2 &= \dots \\ \hline D_2 &= \dots \\ D &= \dots \end{aligned} \quad \begin{aligned} \text{距離} &= \dots | K | \dots \\ \text{方位角} a &= 73^\circ - 36' - 24'' \end{aligned}$$

$\Delta X$	$\Delta Y$	B, 在 a 象限	Xヲ出スニハ
+	+	I	B
-	+	II	$180^\circ - B$
-	-	III	$180^\circ + B$
+	-	IV	$360^\circ - B$

$$\begin{aligned} X_2 &= \dots \\ X_1 &= \dots \\ \hline \Delta X &= \dots \end{aligned} \quad \begin{aligned} Y_2 &= \dots \\ Y_1 &= \dots \\ \hline \Delta Y &= \dots \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta Y & \dots \\ \text{Log} \Delta X & \dots \\ \hline \text{Logtan} B & \dots \\ B & \dots \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \dots & \text{Log} \Delta X & \dots \\ \text{Logsin} B & \dots & \text{Logcos} B & \dots \\ \hline \text{Log} D & \dots & \text{Log} D & \dots \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= \dots \\ \Delta y_2 &= \dots \\ \hline D_2 &= \dots \\ D &= \dots \end{aligned} \quad \begin{aligned} \text{距離} &= \dots | K | \dots \\ \text{方位角} a &= \dots |^\circ - | \dots \end{aligned}$$

$$\begin{aligned} X_2 &= \dots \\ X_1 &= \dots \\ \hline \Delta X &= \dots \end{aligned} \quad \begin{aligned} Y_2 &= \dots \\ Y_1 &= \dots \\ \hline \Delta Y &= \dots \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \dots \\ \text{Log} \Delta X & \dots \\ \hline \text{Logtan} B & \dots \\ B & \dots \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta Y & \dots & \text{Log} \Delta X & \dots \\ \text{Logsin} B & \dots & \text{Logcos} B & \dots \\ \hline \text{Log} D & \dots & \text{Log} D & \dots \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= \dots \\ \Delta y_2 &= \dots \\ \hline D_2 &= \dots \\ D &= \dots \end{aligned} \quad \begin{aligned} \text{距離} &= \dots | K | \dots \\ \text{方位角} a &= \dots |^\circ - | \dots \end{aligned}$$

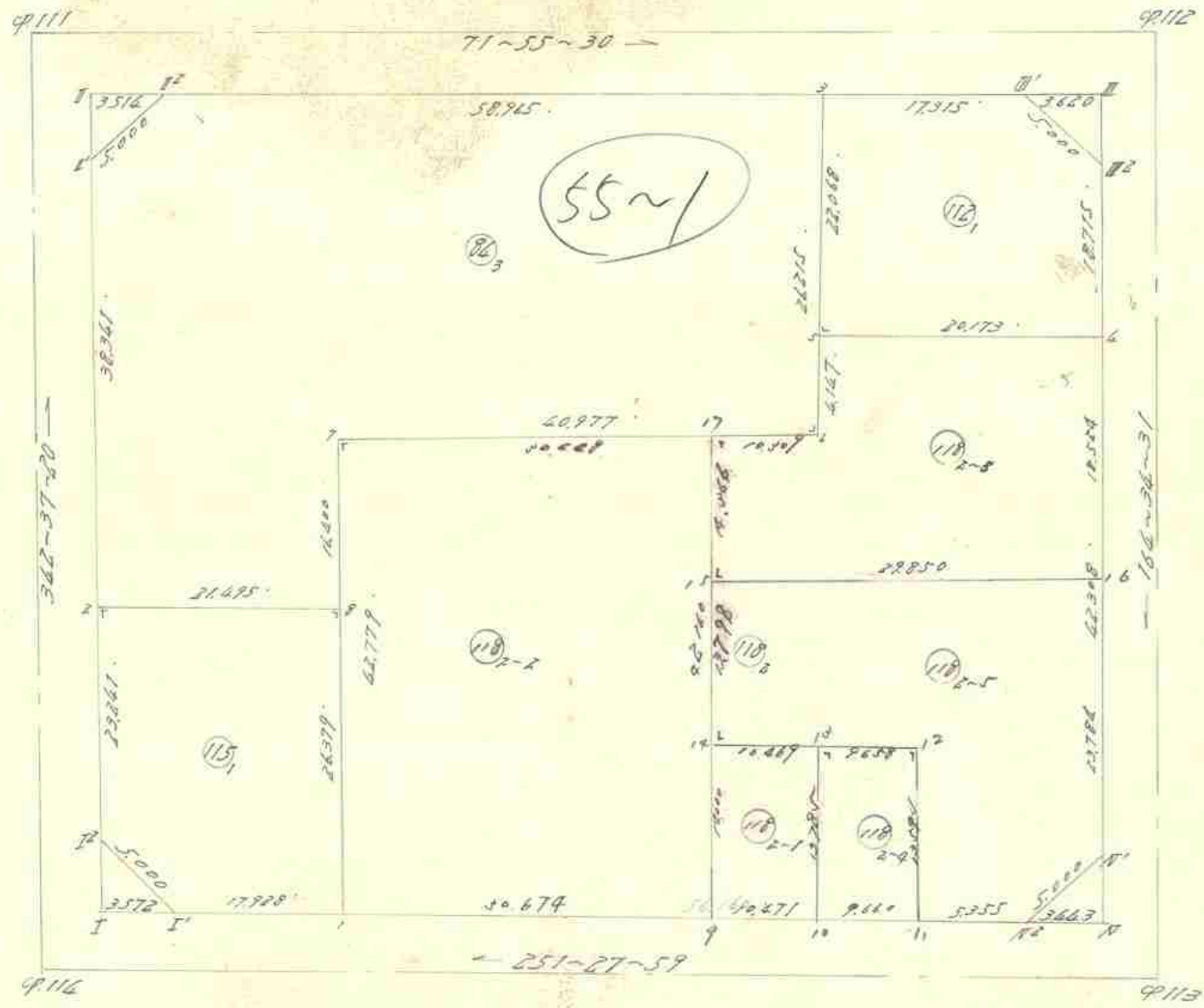
$$\begin{aligned} X_2 &= \dots \\ X_1 &= \dots \\ \hline \Delta X &= \dots \end{aligned} \quad \begin{aligned} Y_2 &= \dots \\ Y_1 &= \dots \\ \hline \Delta Y &= \dots \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \dots \\ \text{Log} \Delta X & \dots \\ \hline \text{Logtan} B & \dots \\ B & \dots \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \dots & \text{Log} \Delta X & \dots \\ \text{Logsin} B & \dots & \text{Logcos} B & \dots \\ \hline \text{Log} D & \dots & \text{Log} D & \dots \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= \dots \\ \Delta y_2 &= \dots \\ \hline D_2 &= \dots \\ D &= \dots \end{aligned} \quad \begin{aligned} \text{距離} &= \dots | K | \dots \\ \text{方位角} a &= \dots |^\circ - | \dots \end{aligned}$$

63





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)	+	-	+	-
63											
筆番号	1	5,385.546	-	+ 30.876	4,354.914	-	+ 9.119	141.787	,	1,077.935	,
⑬	9114 <sup>1</sup>	5,379.843	-	+ 3.425	4,337.916	-	+ 21.458	211.152	,	61.362	,
	9114 <sup>2</sup>	5,382.117	-	+ 24.454	4,333.462	-	+ 11.395	138.073	,	,	329.200
	2	5,404.297	-	+ 28.600	4,326.521	-	+ 13.573	,	465.513	,	186.501
	8	5,410.717	-	+ 18.755	4,347.035	-	+ 28.393	,	1,156.078	507.041	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,

控除シタル値

X=於テ 5,370

Y=於テ 4,320

$\Sigma =$  490.952 1,621.591 1,646.338 515.701

$2S =$  1,130.639

1,130.637

S = 565.319

171.017 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)	+	-	+	-
63											
筆番号	7	5,426.368	-	+ 27.890	4,342.137	-	+ 34.209	902.222	,	1,175.201	,
⑭	8	5,410.717	-	+ 22.071	4,347.035	-	+ 15.616	167.357	,	1,038.109	,
	2	5,404.297	-	+ 30.170	4,326.521	-	+ 31.966	137.358	,	,	800.139
	9111 <sup>1</sup>	5,440.887	-	+ 41.034	4,315.069	-	+ 9.161	374.566	,	,	618.341
	9111 <sup>2</sup>	5,445.331	-	+ 22.739	4,317.360	-	+ 58.365	,	2,646.837	,	396.748
	3	5,463.626	-	+ 6.724	4,373.414	-	+ 63.884	,	4,064.683	493.636	,
	6	5,438.607	-	+ 37.258	4,381.246	-	+ 31.277	1,207.511	,	3,026.989	,
			-	-		-	-	,	,	,	,
			-	-		-	-	,	,	,	,

控除シタル値

X=於テ 5,400

Y=於テ 4,300

$\Sigma =$  2,788.814 670.520 5733.935 1,213.229

$2S =$  3,920.706

3,920.706

S = 1,960.353

593.017 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)	+	-	+	-
63	4	5,448,590	-	+ 24,066	4,399,258	-	+ 14,275	122,623	,	706,123	,
筆番号	5	5,442,565	-	+ 15,036	4,380,005	-	+ 25,846	66,290	,	,	150,435
⑪	3	5,463,626	-	+ 26,433	4,373,414	-	+ 9,871	,	233,814	,	90,244
9112	5,468,998	-	+ 3,005	4,389,876	-	+ 20,866	,	605,070	,	59,227	,
9112	5,466,631	-	+ 20,408	4,394,280	-	+ 9,382	,	249,858	495,506	,	,

控除シタル値

X = 於テ 5,460

y = 於テ 4,370

$$\Sigma = \frac{188,913}{24} = \frac{1,088,136}{899,223} = \frac{1,199,629}{899,225} = \frac{300,404}{136,009}$$

$$S = \frac{449,612}{136,009}$$

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)	+	-	+	-
63	9113	5,403,393	-	+ 22,264	4,408,162	-	+ 55,596	1,300,557	,	1,517,559	,
筆番号	1	5,385,542	-	+ 22,975	4,354,914	-	+ 66,025	365,911	,	,	342,649
⑪	7	5,426,368	-	+ 58,065	4,342,137	-	+ 26,330	,	1,200,869	,	113,400
	6	5,438,607	-	+ 16,197	4,381,244	-	+ 37,868	,	2219,330	,	668,029
	5	5,442,565	-	+ 9,983	4,380,005	-	+ 18,014	,	1,127,046	,	379,370
	4	5,448,590	-	+ 34,759	4,399,258	-	+ 30,505	,	2,092,338	2,059,749	,
9113	5,407,806	-	+ 45,197	4,410,510	-	+ 8,904	,	247,585	3,186,840	,	,

控除シタル値

X = 於テ 5,380

y = 於テ 4,340

$$\Sigma = \frac{1,666,468}{28} = \frac{6,907,168}{5,240,700} = \frac{6,764,148}{5,240,700} = \frac{1,523,448}{792,667}$$

$$S = \frac{2,620,350}{792,667}$$

年 月 日

面積計算用紙

街廓番号 63	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 118 2nd	17	5225.529	-	+11.076	2471.205	-	0.91	760	5673	202	975	942	
	9	5275.292	-	+9.986	2484.997	-	+16	991	1571	460	2199	234	
	1	5285.125	-	0	2450.912	-	+91	880	2530	1788		463	967
	7	5226.468	-	0	2426.187	-	0.16	991		2023	935		106

控除シタル値

X = 於テ 5300

y = 於テ 2420

Σ = 5152 2487767 137 3175 176 570 207

2S = 2604.889

2604.889

S = 1302.444

390.9977 年 月 日

面積計算用紙

街廓番号 60	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 118 2nd	10	5398.520	-	+16.484	4323.925	-	+5	811	50	090	394	379		
	9	5395.292	-	-10.029	4383.997	+	+14	108	76	659		140	376	
	14	5408.649	-	-16.484	4379.817	-	-5	811		108	369		161	803
	13	5411.776	-	+10.029	4389.808	-	-14	108		307	216	198	654	

控除シタル値

X = 於テ 5390

y = 於テ 4370

Σ = 124 749 415 585 593 033 302 199

2S = 290.836

290.836

S = 145.418

4399 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)	+	-	+	-
63	16	5430.733	-	+28.772	4204.184	-	+28.562	252.891		915.174	
筆番号 118 2-3	15	5429.818	-	-4.795	4275.696	-	+32.779	59.592			27.312
	17	5435.588	-	-14.787	4271.205	-	-5.548		86.149		23.589
	6	5438.607	-	-7.037	4381.244	-	-8.660		160.020		77.124
	5	5442.565	-	-9.983	4380.005	-	-18.014		406.485		99.880
	4	5448.590	-	+11.832	4379.258	-	-24.179		691.277	346.180	

控除シタル値

X = 於テ 5420

y = 於テ 8370

Σ = 312 683 1343 931 1261 354 229 905

2S = 1031.448

1031.449

S = 515.724

156.017

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)	+	-	+	-
63	11	5401.691	-	+16.041	4203.090	-	+5.100	19.624		370.290	
筆番号 118 2-4	10	5398.600	-	-10.085	4293.905	-	+13.276	114.029			140.833
	12	5411.776	-	-16.041	4288.808	-	-5.100		111.057		157.336
	12	5412.661	-	+10.085	4398.005	-	-13.276		327.299	191.867	

控除シタル値

X = 於テ 5390

y = 於テ 6280

Σ = 174 063 437 456 862 157 213 763

2S = 264.393

264.394

S = 132.197

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)	+	-	+	-	
63 筆番号 913 <sup>甲</sup> 913 <sup>乙</sup> 11 12 13 14 15 16	913 <sup>甲</sup>	5407.906	-	+27.340	2010.510	-	-3.978	.	.	31.052	3021.343	.
	913 <sup>乙</sup>	5403.399	-	+6.115	2008.162	-	+7.426	25.196	.	.	661.410	.
	11	5401.691	-	-11.268	2003.080	-	+9.137	15.850	.	.	.	1161.550
	12	5412.661	-	-6.958	2009.025	-	+23.287	341.117	.	.	.	609.016
	13	5408.649	-	-7.157	2009.817	-	+23.329	201.773	.	.	.	571.250
	14	5401.810	-	-22.086	2005.696	-	-24.367	.	531.639	.	.	1671.670
	15	5401.810	-	+16.012	2005.184	-	-36.814	.	1069.938	1459.826	.	.
	16	5401.793	-	.	.	-	.	.	.	.	.	.

控除シタル値

X = 於テ 5400  
y = 於テ 4300

Σ = 583 5361632 6295142 5796093 486  
2S = 1069.093 1069.093  
S = 524.5465

1960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

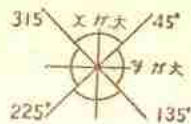
X = 於テ \_\_\_\_\_  
y = 於テ \_\_\_\_\_

Σ = \_\_\_\_\_  
2S = \_\_\_\_\_  
S = \_\_\_\_\_

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

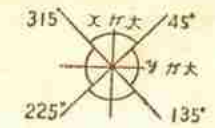


象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	-

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	
	9113 <sup>1</sup>	0 1 "		0 1 "	.			.	.	.	.	5604.487	4411.426	9113 <sup>1</sup>
9113 <sup>1</sup>	9113 <sup>2</sup>			251 27 59	3.443			.	.	.	.	5403.393	4408.162	9113 <sup>2</sup>
9113 <sup>2</sup>	1	74.088		"	56.160			.	.	.	.	5385.542	4354.914	1
1	9114 <sup>1</sup>			"	17.928			.	.	.	.	5379.843	4337.916	9114 <sup>1</sup>
9114 <sup>1</sup>	9114 <sup>2</sup>			"	3.572			.	.	.	.	5378.708	4334.529	9114 <sup>2</sup>
9114 <sup>2</sup>	9114 <sup>3</sup>			342 37 20	3.572			.	.	.	.	5382.117	4333.462	9114 <sup>3</sup>
9114 <sup>3</sup>	2	61.582		"	23.241			.	.	.	.	5404.297	4326.521	2
2	9111 <sup>1</sup>			"	38.341			.	.	.	.	5440.887	4315.069	9111 <sup>1</sup>
9111 <sup>1</sup>	9111 <sup>2</sup>			"	3.514			.	.	.	.	5444.241	4314.019	9111 <sup>2</sup>
9111 <sup>2</sup>	9111 <sup>3</sup>			71 55 30	3.514			.	.	.	.	5445.331	4317.360	9111 <sup>3</sup>
9111 <sup>3</sup>	3	76.280		"	58.965			.	.	.	.	5463.626	4373.416	3
3	9112 <sup>1</sup>			"	17.315			.	.	.	.	5468.998	4382.876	9112 <sup>1</sup>
9112 <sup>1</sup>	9112 <sup>2</sup>			"	3.620			.	.	.	.	5470.121	4393.317	9112 <sup>2</sup>
9112 <sup>2</sup>	9112 <sup>3</sup>			164 34 31	3.620			.	.	.	.	5466.631	4396.280	9112 <sup>3</sup>
9112 <sup>3</sup>	4	61.023		"	18.715			.	.	.	.	5448.590	4399.258	4
4	9113 <sup>1</sup>			"	42.308			.	.	.	.	5407.806	4410.510	9113 <sup>1</sup>
9113 <sup>1</sup>	9113 <sup>2</sup>			"	3.443			.	.	.	.	5604.487	4411.426	9113 <sup>2</sup>

多角点計算用紙

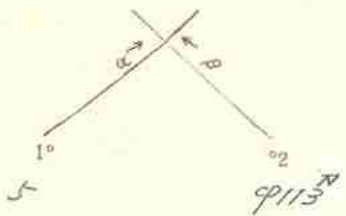
測量No.



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	
	9114 <sup>2</sup>	0	"	0	"									
9114 <sup>1</sup>	-1			71 37 59	21.500	317856	948139	6.834		20.385		5378.708	4334.529	9114 <sup>1</sup>
1	8			342 37 20	26.379	298671	954356	25.175			7.879	5385.542	4354.914	1
8	7			"	16.400	"	"	15.651			4.898	5426.368	4342.137	8
7	6			72 37 20	40.977	"	"	12.239		39.107		5438.607	4381.264	7
6	5			342 37 20	4.147	"	"	3.958			1.239	5442.585	4380.005	6
	7													
7	17			72 37 20	20.668	298671	954356	9.160		29.268		5426.368	4342.137	7
17	15			162 37 20	12.966	"	"	18.710		9.291		5421.819	4325.696	17
15	14			"	12.798	"	"	18.168		7.121		5408.607	4319.817	15
14	13			72 37 20	10.209	"	"	11.127		9.991		5411.776	4319.808	14
13	12			"	9.158	"	"	11.025		9.217		5414.661	4319.005	13

算出点 4



$9113''$   
 $X_2 = -54014.1487$   
 $X_1 = -54448.565$   
 $\Delta X = -2138.078$

$\alpha = 178^\circ - 57' - 20''$   
 $\beta = 136^\circ - 34' - 31''$   
 $\beta - \alpha = 127^\circ - 57' - 11''$

$\Delta Y \times \textcircled{2} = + 130.88925$   
 $\Delta X \times \textcircled{4} = + 140.12768$   
 $E = 140.12768$

$S_1 = \frac{E}{\textcircled{5}} = 140.12768$

$S_1 \times \textcircled{1} = + 116.1025$   
 $X_1 = -54448.565$   
 $X = -54448.565$

$S_1 \times \textcircled{2} = + 119.253$   
 $Y_1 = -4386.005$   
 $Y = -4386.005$

$Y_2 = -4411.426$   
 $Y_1 = -4386.005$   
 $\Delta Y = -25.421$

$\text{Cosa} = + 0.9986711 \textcircled{1}$   
 $\text{Sina} = + 0.1543156 \textcircled{2}$   
 $\text{Cos}\beta = + 0.9659811 \textcircled{3}$   
 $\text{sin}\beta = 0.2659721 \textcircled{4}$   
 $\text{Sin}(\beta - \alpha) = - 0.9994119 \textcircled{5}$

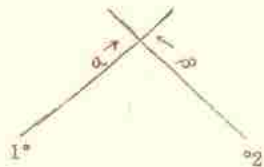
$\Delta Y \times \textcircled{1} = + 19.38654$   
 $\Delta X \times \textcircled{2} = 9.36.33999$   
 $F = 145.72451$

$S_2 = \frac{F}{\textcircled{6}} = 145.72451$

$S_2 \times \textcircled{3} = + 146.102$   
 $X_2 = -54014.1487$   
 $X = -54014.1487$

$S_2 \times \textcircled{4} = 9.12.169$   
 $Y_2 = -4411.426$   
 $Y = -4411.426$

算出点



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

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

$\Delta Y \times \textcircled{3} = -$   
 $\Delta X \times \textcircled{4} = -$   
 $E =$

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

$S_1 \times \textcircled{1} = -$   
 $X_1 = -$   
 $X = -$

$S_1 \times \textcircled{2} = -$   
 $Y_1 = -$   
 $Y = -$

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

$\text{Cosa} = -$   
 $\text{Sina} = -$   
 $\text{Cos}\beta = -$   
 $\text{sin}\beta = -$   
 $\text{Sin}(\beta - \alpha) = -$

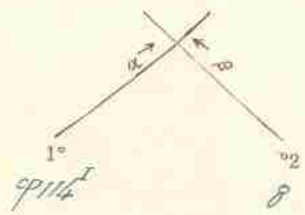
$\Delta Y \times \textcircled{1} = -$   
 $\Delta X \times \textcircled{2} = -$   
 $F =$

$S_2 = \frac{F}{\textcircled{6}} =$

$S_2 \times \textcircled{3} = -$   
 $X_2 = -$   
 $X = -$

$S_2 \times \textcircled{4} = -$   
 $Y_2 = -$   
 $Y = -$

算出点 2



$$\begin{aligned} \frac{8}{9114} X_2 &= -541101.1717 \\ \frac{8}{9114} X_1 &= -543781.708 \\ \Delta X &= -11341.0109 \end{aligned}$$

$$\begin{aligned} \alpha &= 1342^\circ - 37' - 20'' \\ \beta &= 1252^\circ - 37' - 20'' \\ \beta - \alpha &= 190^\circ - 04' - 00'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 9114 \cdot 173558 \\ \Delta X \times \textcircled{4} &= 013501.54798 \\ E &= 1261.81250 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 11101111$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 11101111 \\ X_1 &= -543781.708 (+) \\ X &= -544516.297 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0 11101111 \\ Y_1 &= -541101.1717 (+) \\ Y &= -541101.1717 \end{aligned}$$

$$\begin{aligned} Y_2 &= -43447.1035 \\ Y_1 &= -4334.529 \\ \Delta Y &= -11112.506 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0.698671 \textcircled{1} \\ \text{Sin} \alpha &= 0.717171 \textcircled{2} \\ \text{Cos} \beta &= 0.698671 \textcircled{3} \\ \text{sin} \beta &= 0.698671 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= - 0.111111 \textcircled{5} \end{aligned}$$

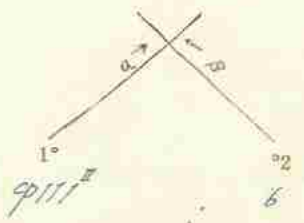
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 1111.0101 \\ \Delta X \times \textcircled{2} &= 01111.0101 \\ F &= 1111.0101 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 11101111$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0 1111.0101 \\ X_2 &= -541101.1717 (+) \\ X &= -545016.297 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 1111.0101 \\ Y_2 &= -43447.1035 (+) \\ Y &= -43447.1035 \end{aligned}$$

算出点 3



$$\begin{aligned} \frac{6}{9111} X_2 &= -54438.1817 \\ \frac{6}{9111} X_1 &= -5444.2411 \\ \Delta X &= -2111.0101 \end{aligned}$$

$$\begin{aligned} \alpha &= 1271^\circ - 35' - 30'' \\ \beta &= 1342^\circ - 37' - 20'' \\ \beta - \alpha &= 1270^\circ - 41' - 50'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + 164.12558 \\ \Delta X \times \textcircled{4} &= + 1111.0101 \\ E &= 164.12558 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 152.02785$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 7 152.02785 \\ X_1 &= -5444.2411 (+) \\ X &= -54438.1817 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 152.02785 \\ Y_1 &= -54438.1817 (+) \\ Y &= -54438.1817 \end{aligned}$$

$$\begin{aligned} Y_2 &= -4331.2444 \\ Y_1 &= -4314.0119 \\ \Delta Y &= -1717.2325 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0.698671 \textcircled{1} \\ \text{Sin} \alpha &= 0.717171 \textcircled{2} \\ \text{Cos} \beta &= + 0.698671 \textcircled{3} \\ \text{sin} \beta &= 0.698671 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= - 0.111111 \textcircled{5} \end{aligned}$$

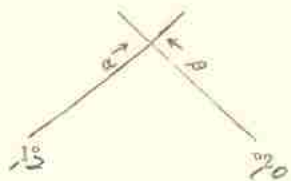
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 1717.2325 \\ \Delta X \times \textcircled{2} &= 01111.0101 \\ F &= 1717.2325 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 1541.0101$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 1541.0101 \\ X_2 &= -5444.2411 (+) \\ X &= -54438.1817 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 1541.0101 \\ Y_2 &= -4331.2444 (+) \\ Y &= -4331.2444 \end{aligned}$$

算出点 11



$$\begin{aligned} X_2 &= -1217.1620 \\ X_1 &= -1214.1661 \\ \Delta X &= 3.0041 \end{aligned}$$

$$\alpha = 122^\circ - 07' - 49''$$

$$\beta = 122^\circ - 27' - 19''$$

$$\beta - \alpha = 122^\circ - 20' - 10''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0.1111.6410 \\ \Delta X \times \textcircled{4} &= 0.1115.1210 \\ E &= 1.111.1879 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 1.111.1879$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 0.1111.1879 \\ X_1 &= -1.111.1879 \\ X &= -1.111.1879 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 1.111.1879 \\ Y_1 &= -1.111.1879 \\ Y &= -1.111.1879 \end{aligned}$$

$$\begin{aligned} Y_2 &= -1217.1620 \\ Y_1 &= -1214.1661 \\ \Delta Y &= 3.0041 \end{aligned}$$

$$\cos \alpha = 0.1111.1879 \textcircled{1}$$

$$\sin \alpha = 1.111.1879 \textcircled{2}$$

$$\cos \beta = 1.111.1879 \textcircled{3}$$

$$\sin \beta = 1.111.1879 \textcircled{4}$$

$$\sin(\beta - \alpha) = -1.111.1879 \textcircled{5}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 1.111.1879 \\ \Delta X \times \textcircled{2} &= 0.111.1879 \\ F &= 1.111.1879 \end{aligned}$$

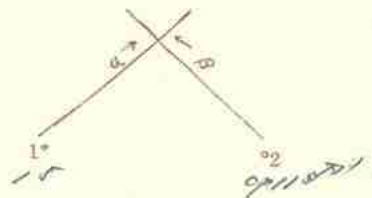
$$S_2 = \frac{F}{\textcircled{6}} = 1.111.1879$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 1.111.1879 \\ X_2 &= -1.111.1879 \\ X &= -1.111.1879 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 1.111.1879 \\ Y_2 &= -1.111.1879 \\ Y &= -1.111.1879 \end{aligned}$$

63

算出点 16



$$\begin{aligned} X_2 &= -1217.1620 \\ X_1 &= -1214.1661 \\ \Delta X &= 3.0041 \end{aligned}$$

$$\alpha = 122^\circ - 07' - 49''$$

$$\beta = 122^\circ - 27' - 19''$$

$$\beta - \alpha = 122^\circ - 20' - 10''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 1.111.1879 \\ \Delta X \times \textcircled{4} &= 1.111.1879 \\ E &= 1.111.1879 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 1.111.1879$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 1.111.1879 \\ X_1 &= -1.111.1879 \\ X &= -1.111.1879 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 1.111.1879 \\ Y_1 &= -1.111.1879 \\ Y &= -1.111.1879 \end{aligned}$$

$$\begin{aligned} Y_2 &= -1217.1620 \\ Y_1 &= -1214.1661 \\ \Delta Y &= 3.0041 \end{aligned}$$

$$\cos \alpha = 1.111.1879 \textcircled{1}$$

$$\sin \alpha = 1.111.1879 \textcircled{2}$$

$$\cos \beta = 1.111.1879 \textcircled{3}$$

$$\sin \beta = 1.111.1879 \textcircled{4}$$

$$\sin(\beta - \alpha) = -1.111.1879 \textcircled{5}$$

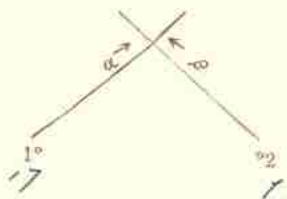
$$\begin{aligned} \Delta Y \times \textcircled{1} &= -1.111.1879 \\ \Delta X \times \textcircled{2} &= 0.111.1879 \\ F &= 1.111.1879 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{6}} = 1.111.1879$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 1.111.1879 \\ X_2 &= -1.111.1879 \\ X &= -1.111.1879 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 1.111.1879 \\ Y_2 &= -1.111.1879 \\ Y &= -1.111.1879 \end{aligned}$$

算出点 9



$$\begin{aligned} \Delta X_2 &= - \underline{\underline{112101.2566}} \\ \Delta X_1 &= - \underline{\underline{112101.2566}} \\ \Delta X &= \underline{\underline{0.0000}} \end{aligned}$$

$$\begin{aligned} Y_2 &= - \underline{\underline{112101.2566}} \\ Y_1 &= - \underline{\underline{112101.2566}} \\ \Delta Y &= \underline{\underline{0.0000}} \end{aligned}$$

$$\begin{aligned} \alpha &= 122^\circ - 12^\circ - 12^\circ \\ \beta &= 122^\circ - 12^\circ - 12^\circ \\ \beta - \alpha &= 188^\circ - 12^\circ - 12^\circ \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= \underline{\underline{0.1999999999}} \text{ ①} \\ \text{Sin} \alpha &= \underline{\underline{1.0000000000}} \text{ ②} \\ \text{Cos} \beta &= \underline{\underline{1.0000000000}} \text{ ③} \\ \text{Sin} \beta &= \underline{\underline{0.1999999999}} \text{ ④} \\ \text{Sin}(\beta - \alpha) &= \underline{\underline{0.1999999999}} \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= \underline{\underline{0.0000000000}} \\ \Delta X \times \text{④} &= \underline{\underline{0.0000000000}} \\ E &= \underline{\underline{1.0000000000}} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= \underline{\underline{1.0000000000}} \\ \Delta X \times \text{②} &= \underline{\underline{0.0000000000}} \\ F &= \underline{\underline{1.0000000000}} \end{aligned}$$

$$S_1 = \frac{|E|}{\text{⑤}} = \underline{\underline{1.0000000000}}$$

$$S_2 = \frac{|F|}{\text{⑤}} = \underline{\underline{1.0000000000}}$$

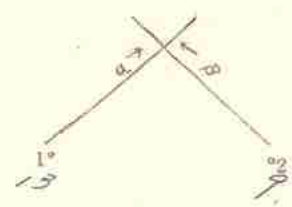
$$\begin{aligned} S_1 \times \text{①} &= \underline{\underline{0.1999999999}} \\ X_1 &= - \underline{\underline{1.0000000000}} \\ X &= - \underline{\underline{1.0000000000}} \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= \underline{\underline{1.0000000000}} \\ X_2 &= - \underline{\underline{1.0000000000}} \\ X &= - \underline{\underline{1.0000000000}} \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= \underline{\underline{1.0000000000}} \\ Y_1 &= - \underline{\underline{1.0000000000}} \\ Y &= - \underline{\underline{1.0000000000}} \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= \underline{\underline{0.1999999999}} \\ Y_2 &= - \underline{\underline{1.0000000000}} \\ Y &= - \underline{\underline{1.0000000000}} \end{aligned}$$

算出点 10



$$\begin{aligned} \Delta X_2 &= - \underline{\underline{112101.2566}} \\ \Delta X_1 &= - \underline{\underline{112101.2566}} \\ \Delta X &= \underline{\underline{0.0000}} \end{aligned}$$

$$\begin{aligned} Y_2 &= - \underline{\underline{112101.2566}} \\ Y_1 &= - \underline{\underline{112101.2566}} \\ \Delta Y &= \underline{\underline{0.0000}} \end{aligned}$$

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

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

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

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

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

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

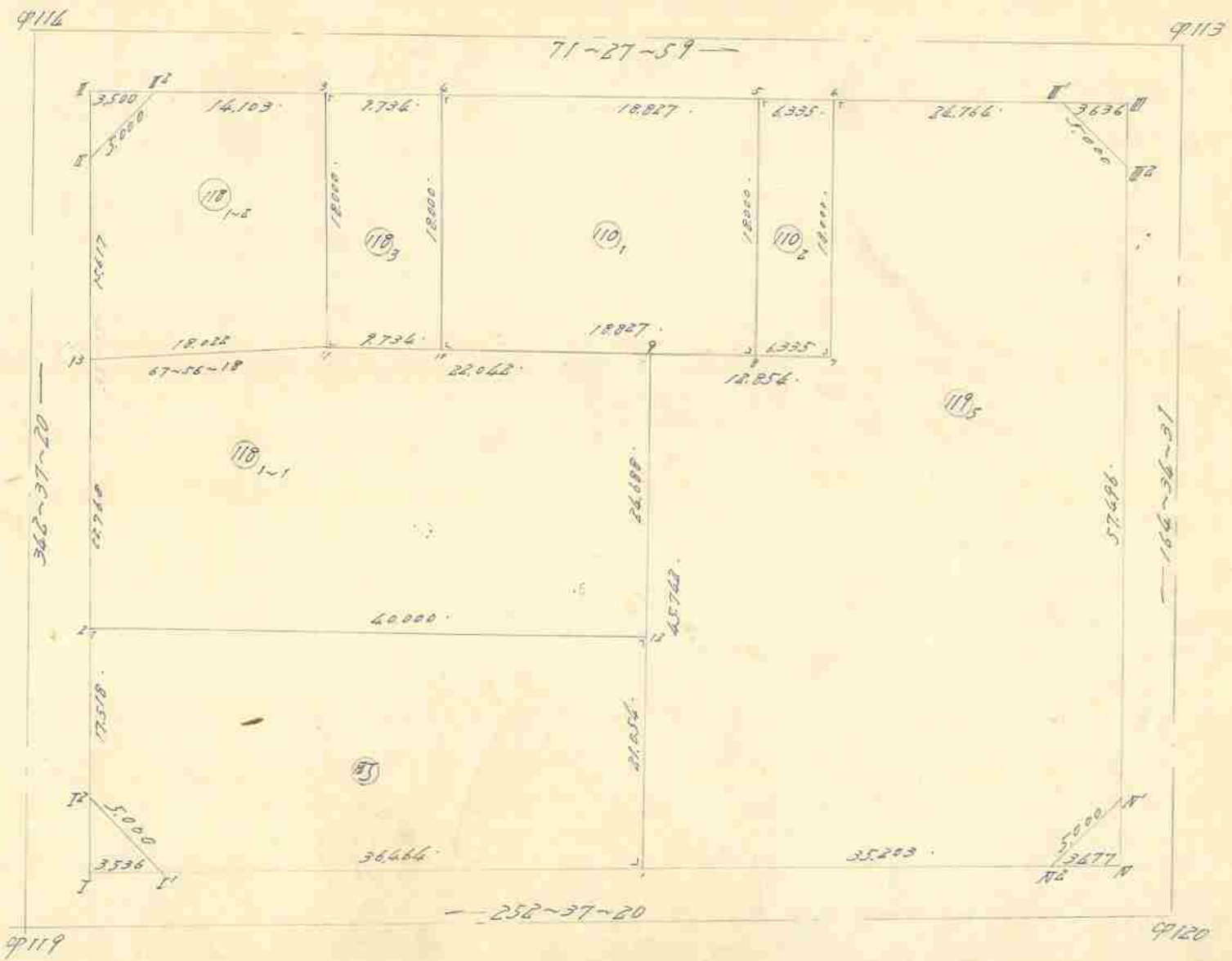
$$\begin{aligned} S_1 \times \text{①} &= \dots \\ X_1 &= - \dots \\ X &= - \dots \end{aligned}$$

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

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

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

64





面積計算用紙

街廓番号 64	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	5,372.601	-	+ 19.081	4,391.818	-	+ .285	.741		225.499	
(110)	8	5,370.587	-	+ 15.053	4,385.812	-	+ 11.727	6.884			87.488
	5	5,387.654	-	+ 19.081	4,380.091	-	+ .285		5.031		1.736
	6	5,389.668	-	+ 15.053	4,386.097	-	+ 11.727		230.647	91.778	

控除シタル値

X = 於テ 5,370

Y = 於テ 4,380

$$\sum = \frac{7.625}{25} \quad \frac{235.678}{25} \quad \frac{317.277}{25} \quad \frac{89.224}{25}$$

$$S = \frac{228.053}{25} \quad \frac{228.053}{25}$$

$$S = \frac{114.026}{34.497} \quad \text{年 月 日}$$

面積計算用紙

街廓番号 64	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	5,370.587	-	+ 23.057	4,385.812	-	+ 12.130	128.420		594.992	
(110)	10	5,366.603	-	+ 11.083	4,367.961	-	+ 23.572	108.502			88.232
	4	5,381.670	-	+ 23.057	4,362.240	-	+ 12.130		262.857		51.634
	5	5,387.654	-	+ 11.083	4,380.091	-	+ 23.572		651.860	222.669	

控除シタル値

X = 於テ 5,360

Y = 於テ 4,360

$$\sum = \frac{236.922}{25} \quad \frac{914.717}{25} \quad \frac{817.661}{25} \quad \frac{139.866}{25}$$

$$S = \frac{677.795}{25} \quad \frac{677.795}{25}$$

$$S = \frac{338.897}{102.517} \quad \text{年 月 日}$$

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)	+	-	+	-
64											
筆番号	10	5,364,603	-	+20,161	4,367,961	-	+3,508	16,147		368,112	
(183)	11	5,361,509	-	+13,973	4,358,732	-	+14,950	22,560			122,014
	3	5,378,576	-	+20,161	4,353,011	-	+3,508		65,165		60,705
	4	5,381,670	-	+13,973	4,368,260	-	+14,950		323,967	171,030	

控除シタル値

X = 於テ 5,360

Y = 於テ 4,350

$$\bar{X} = \frac{38,707}{28} = 1,382,393$$

$$\bar{Y} = \frac{3,501,425}{28} = 125,051$$

$$S = 53,007$$

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)	+	-	+	-
64											
筆番号	12	5,344,954	-	+35,508	4,387,005	-	+30,800	460,583		2,026,134	
(181)	2	5,333,007	-	+24,686	4,368,831	-	+49,639	149,264			464,862
	9/114	5,369,640	-	+41,085	4,337,366	-	+9,192	364,371			302,632
	9/114	5,374,092	-	+8,936	4,339,639	-	+15,645		689,819		86,134
	3	5,378,576	-	+12,583	4,353,011	-	+19,093		927,462	289,547	
	11	5,361,509	-	+10,061	4,358,732	-	+26,620		838,770	289,073	
	9	5,368,515	-	+16,555	4,379,631	-	+28,273		1,088,935	821,641	

控除シタル値

X = 於テ 5,330

Y = 於テ 4,330

$$\bar{X} = \frac{974,218}{28} = 34,793,5$$

$$\bar{Y} = \frac{2,570,768}{28} = 91,813,1$$

$$S = 388,837$$

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)	+	-	+	-
64											
筆番号	1	5,324,861	-	+ 30,986	4,393,893	-	+ 28,511	423,702	,	1,651,230	,
⑦	9119 <sup>1</sup>	5,313,970	-	+ 8,572	4,358,494	-	+ 39,230	155,743	,	158,531	,
	9119 <sup>2</sup>	5,316,289	-	9 19,037	4,354,063	-	+ 9,663	160,771	,	,	267,717
	2	5,333,007	-	9 28,665	4,348,831	-	9 32,942	,	757,897	,	253,141
	12	5,344,954	-	+ 8,146	4,387,005	-	9 44,462	,	1,554,125	382,903	,

控除シタル値  
 X = 於テ 5,310  
 y = 於テ 4,340

$\bar{x} = \frac{1,40,216}{25} = 5,608.64$   
 $\bar{y} = \frac{2,372,022}{25} = 94,880.88$   
 $S = \frac{2,192,664}{25} = 87,706.56$   
 $S = \frac{520,817}{25} = 20,832.68$   
 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)	+	-	+	-
64											
筆番号	9120 <sup>1</sup>	5,335,375	-	+ 14,906	4,426,890	-	+ 35,990	553,346	,	847,889	,
⑧	1	5,324,861	-	9 33,140	4,393,893	-	+ 47,259	229,726	,	,	771,930
	9	5,368,515	-	9 47,740	4,379,631	-	+ 1,475	71,560	,	,	459,784
	7	5,372,601	-	9 21,153	4,391,818	-	9 6,466	,	340,118	,	461,516
	6	5,389,668	-	9 24,938	4,386,097	-	9 17,759	,	1,237,234	,	401,427
	9113 <sup>1</sup>	5,397,539	-	9 5,522	4,409,577	-	9 27,894	,	2,162,873	,	218,544
	9113 <sup>2</sup>	5,395,190	-	+ 57,774	4,413,991	-	9 19,706	,	1,481,694	2,541,536	,
	9120 <sup>2</sup>	5,339,765	-	+ 59,815	4,429,283	-	9 12,899	,	2,54,949	3,546,013	,

控除シタル値  
 X = 於テ 5,320  
 y = 於テ 4,370

$\bar{x} = \frac{854,632}{25} = 34,185.28$   
 $\bar{y} = \frac{5,476,868}{25} = 219,074.72$   
 $S = \frac{6,935,438}{25} = 277,417.52$   
 $S = \frac{2,313,201}{25} = 92,528.04$   
 年 月 日



$X_2 = 167.610509$        $Y_2 = 1358.738$   
 $X_1 = 167.610509$        $Y_1 = 1358.738$   
 $\Delta X = -$        $\Delta Y = -$

$\text{Log}\Delta y$        $\text{Log}\Delta X$   
 $\text{Logtan} B$        $B$

$\text{Log}\Delta y$        $\text{Log}\Delta X$   
 $\text{Logsin} B$        $\text{Logcos} B$   
 $\text{Log} D$        $\text{Log} D$   
 $\Delta x_2 =$   
 $\Delta y_2 =$   
 $D_2 =$       距離 =  $18K000$   
 $D =$       方位角  $a = 67^\circ 56' 18''$

$\Delta X$	$\Delta Y$	Bの在る象限	Xヲ出スニハ
+	+	I	B
-	+	II	$180^\circ - B$
-	-	III	$180^\circ + B$
+	-	IV	$360^\circ - B$

$X_2 =$        $Y_2 =$   
 $X_1 =$        $Y_1 =$   
 $\Delta X = -$        $\Delta Y = -$

$\text{Log}\Delta y$        $\text{Log}\Delta X$   
 $\text{Logtan} B$        $B$

$\text{Log}\Delta y$        $\text{Log}\Delta X$   
 $\text{Logsin} B$        $\text{Logcos} B$   
 $\text{Log} D$        $\text{Log} D$   
 $\Delta x_2 =$   
 $\Delta y_2 =$   
 $D_2 =$       距離 =  $18K$   
 $D =$       方位角  $a =$

$X_2 =$        $Y_2 =$   
 $X_1 =$        $Y_1 =$   
 $\Delta X = -$        $\Delta y = -$

$\text{Log}\Delta y$        $\text{Log}\Delta X$   
 $\text{Logtan} B$        $B$

$\text{Log}\Delta y$        $\text{Log}\Delta X$   
 $\text{Logsin} B$        $\text{Logcos} B$   
 $\text{Log} D$        $\text{Log} D$   
 $\Delta x_2 =$   
 $\Delta y_2 =$   
 $D_2 =$       距離 =  $18K$   
 $D =$       方位角  $a =$

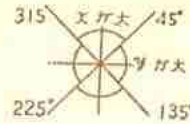
$X_2 =$        $Y_2 =$   
 $X_1 =$        $Y_1 =$   
 $\Delta X = -$        $\Delta Y = -$

$\text{Log}\Delta y$        $\text{Log}\Delta X$   
 $\text{Logtan} B$        $B$

$\text{Log}\Delta y$        $\text{Log}\Delta X$   
 $\text{Logsin} B$        $\text{Logcos} B$   
 $\text{Log} D$        $\text{Log} D$   
 $\Delta x_2 =$   
 $\Delta y_2 =$   
 $D_2 =$       距離 =  $18K$   
 $D =$       方位角  $a =$

多角点計算用紙

測量No.



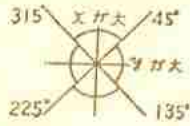
象 限	I	+	+	+	+
	II	-	-	+	-
	III	-	-	-	-
	IV	+	+	-	-

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	
	9120 <sup>1</sup>	"		"	.			.	.	.	.	5336.413	4430.208	9120 <sup>1</sup>
9120 <sup>1</sup>	9120 <sup>2</sup>			252 37 20	3.477			.	.	.	.	5335.375	4426.890	9120 <sup>2</sup>
9120 <sup>2</sup>	1	71.667		"	35.203			.	.	.	.	5326.861	4393.293	1
1	9119 <sup>1</sup>			"	36.464			.	.	.	.	5313.970	4358.494	9119 <sup>1</sup>
9119 <sup>1</sup>	9119 <sup>2</sup>			"	3.536			.	.	.	.	5312.914	4355.119	9119 <sup>2</sup>
9119 <sup>2</sup>	9119 <sup>3</sup>			342 37 20	3.536			.	.	.	.	5316.289	4354.063	9119 <sup>3</sup>
9119 <sup>3</sup>	2	55.903		"	17.518			.	.	.	.	5333.007	4348.831	2
2	9114 <sup>1</sup>			"	38.385			.	.	.	.	5369.640	4337.366	9114 <sup>1</sup>
9114 <sup>1</sup>	9114 <sup>2</sup>			"	3.500			.	.	.	.	5372.980	4336.321	9114 <sup>2</sup>
9114 <sup>2</sup>	9114 <sup>3</sup>			71 27 59	3.500			.	.	.	.	5376.092	4339.639	9114 <sup>3</sup>
9114 <sup>3</sup>	3			"	14.103			.	.	.	.	5372.576	4353.011	3
3	4			"	9.734			.	.	.	.	5381.670	4362.260	4
4	5	73.763		"	18.827			.	.	.	.	5387.654	4380.091	5
5	6			"	6.335			.	.	.	.	5389.668	4386.097	6
6	9113 <sup>1</sup>			"	24.764			.	.	.	.	5397.539	4409.577	9113 <sup>1</sup>
9113 <sup>1</sup>	9113 <sup>2</sup>			"	3.436			.	.	.	.	5398.695	4413.024	9113 <sup>2</sup>
9113 <sup>2</sup>	9113 <sup>3</sup>			164 34 31	3.636			.	.	.	.	5395.190	4413.991	9113 <sup>3</sup>
9113 <sup>3</sup>	9120 <sup>4</sup>			"	57.496			.	.	.	.	5339.765	4429.283	9120 <sup>4</sup>
9120 <sup>4</sup>	9120 <sup>5</sup>			"	3.477			.	.	.	.	5336.413	4430.208	9120 <sup>5</sup>

協和建設測量

多角点計算用紙

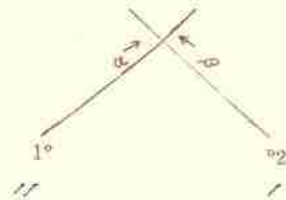
測量No. \_\_\_\_\_



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

測点	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	
	9113 <sup>III</sup>	"	"	"	.							5398.695	4413.026	9113 <sup>III</sup>
9115 <sup>III</sup>	6			251 27 59	28.400	317856	948139	.	9.027	.	26.927	5389.668	4386.097	6
6	7			161 27 59	18.000	"	"	.	17.067	5.721	.	5372.601	4391.818	7
7	8			251 27 59	6.335	"	"	.	2.014	.	6.006	5370.587	4385.812	8
8	5			341 27 59	18.000	"	"	17.067	.	.	5.721	5387.654	4380.091	5
5	4			251 27 59	18.827	"	"	.	5.984	.	17.851	5381.670	4362.260	4
4	10			161 27 59	18.000	"	"	.	17.067	5.721	.	5364.603	4367.961	10
10	11			251 27 59	9.734	"	"	.	3.094	.	9.229	5361.509	4358.732	11
11	3			341 27 59	18.000	"	"	17.067	.	.	5.721	5378.576	4353.011	3
3	9114 <sup>II</sup>			251 27 59	17.603	"	"	.	5.595	.	16.690	5372.980	4336.321	9114 <sup>II</sup>
	9119 <sup>I</sup>				.							5312.914	4355.119	9119 <sup>I</sup>
9117 <sup>I</sup>	1			72 37 20	40.000	298671	954356	11.947	.	38.174	.	5326.861	4393.293	1
1	12			342 37 20	21.054	"	"	20.093	.	.	6.288	5344.954	4387.005	12
12	2			252 37 20	40.000	"	"	.	11.947	.	38.174	5333.007	4348.831	2
2	13			342 37 20	22.772	"	"	21.722	.	.	6.201	5354.740	4342.030	13

算出点 9



$$\begin{aligned} X_2 &= -140.861 \\ X_1 &= -105.099 \\ \Delta X &= -71.648 \end{aligned}$$

$$\alpha = 172'' - 27'' - 59''$$

$$\beta = 132'' - 37'' - 20''$$

$$\beta - \alpha = 222'' - 6'' - 21''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 71.320 \\ \Delta X \times \textcircled{4} &= 71.320 \\ E &= 100.766 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{3}} = 140.861$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 71.320 \\ X_1 &= -105.099 \\ X &= -105.099 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 71.320 \\ Y_1 &= -105.099 \\ Y &= -105.099 \end{aligned}$$

$$\begin{aligned} Y_2 &= -105.099 \\ Y_1 &= -105.099 \\ \Delta Y &= 0 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.999 \textcircled{1} \\ \text{Sin} \alpha &= +0.017 \textcircled{2} \\ \text{Cos} \beta &= +0.999 \textcircled{3} \\ \text{Sin} \beta &= +0.017 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.000 \textcircled{5} \end{aligned}$$

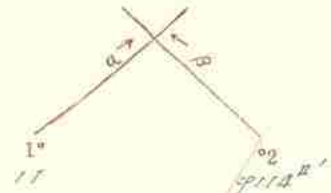
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 71.320 \\ \Delta X \times \textcircled{2} &= 71.320 \\ F &= 100.766 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 140.861$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 71.320 \\ X_2 &= -105.099 \\ X &= -105.099 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 71.320 \\ Y_2 &= -105.099 \\ Y &= -105.099 \end{aligned}$$

算出点 13



$$\begin{aligned} X_2 &= -105.099 \\ X_1 &= -105.099 \\ \Delta X &= 0 \end{aligned}$$

$$\alpha = 172'' - 27'' - 59''$$

$$\beta = 132'' - 37'' - 20''$$

$$\beta - \alpha = 222'' - 6'' - 21''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 71.320 \\ \Delta X \times \textcircled{4} &= 71.320 \\ E &= 100.766 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{3}} = 140.861$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 71.320 \\ X_1 &= -105.099 \\ X &= -105.099 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 71.320 \\ Y_1 &= -105.099 \\ Y &= -105.099 \end{aligned}$$

$$\begin{aligned} Y_2 &= -105.099 \\ Y_1 &= -105.099 \\ \Delta Y &= 0 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.999 \textcircled{1} \\ \text{Sin} \alpha &= +0.017 \textcircled{2} \\ \text{Cos} \beta &= +0.999 \textcircled{3} \\ \text{Sin} \beta &= +0.017 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.000 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 71.320 \\ \Delta X \times \textcircled{2} &= 71.320 \\ F &= 100.766 \end{aligned}$$

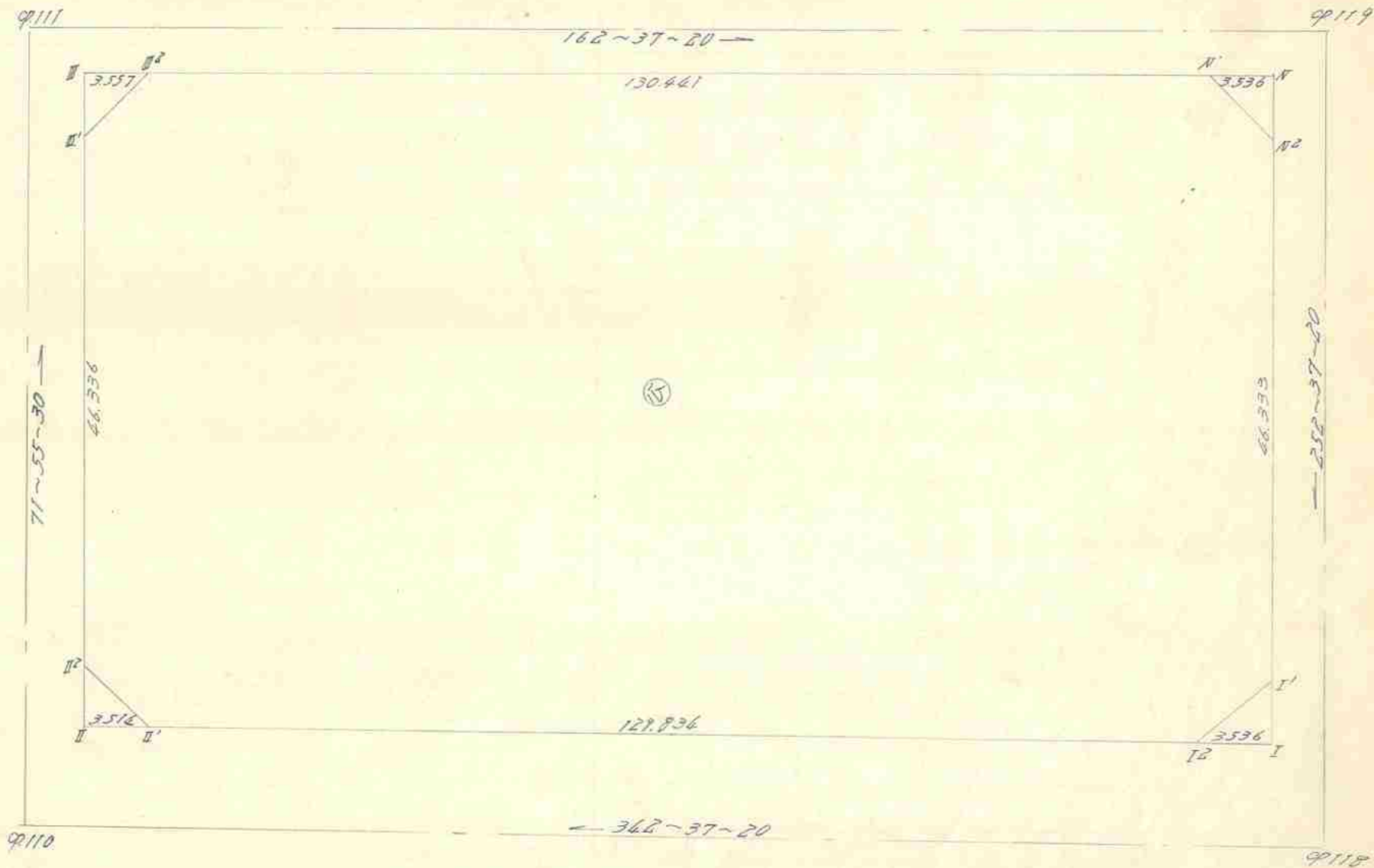
$$S_2 = \frac{F}{\textcircled{5}} = 140.861$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 71.320 \\ X_2 &= -105.099 \\ X &= -105.099 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 71.320 \\ Y_2 &= -105.099 \\ Y &= -105.099 \end{aligned}$$

59

65



# 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			
65	(公)	7302	511	2209 01	✓						
計											
						ブロック計算=	m <sup>2</sup>	.	ブロック計算=	坪	.
						各筆集計=	.	(-	各筆集計=	.	(-
						Σ =	.	.	Σ =	.	.

協和建設測量

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	$(1) \times (6)$		$(3) \times (4)$							
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-						
筆番号 ㊟	φ 118 <sup>I</sup>	5298	546	-	126	227	4297	370	-	43	208	4257	976	-	12290	723	
	φ 110 <sup>II</sup>	5422	454	-	128	352	4258	593	-	36	486	8116	457	-	7520	529	
	φ 110 <sup>III</sup>	5426	898	-	18	821	4260	884	-	46	341	-	10514	680	-	1145	898
	φ 111 <sup>IV</sup>	5441	275	-	12	086	4304	934	-	48	493	-	11700	149	-	1268	232
	φ 111 <sup>V</sup>	5438	984	-	126	778	4309	377	-	43	403	-	10372	623	3866	597	-
	φ 119 <sup>VI</sup>	5314	497	-	128	918	4348	337	-	36	641	-	4195	285	9123	309	-
	φ 119 <sup>VII</sup>	5310	066	-	18	270	4346	018	-	46	536	5122	031	-	2667	749	-
	φ 118 <sup>I'</sup>	5296	227	-	11	520	4301	801	-	48	648	4681	251	-	1172	748	-

控除シタル値

X = 於テ 5.200

y = 於テ 4.200

$\Sigma = 22177$      $71536782$      $73906830$      $40322225$      $382$

$2S = 14605.022$

$14605.021$

$S = 7302.511$

2.209.01坪

年 月 日

面積計算用紙

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

控除シタル値

X = 於テ

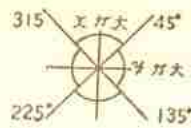
y = 於テ

$M =$

$2S =$

$S =$

年 月 日



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

多角点計算用紙

測量No.

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	
	CP118 <sup>I</sup>	° 1 "		° 1 "	.			.	.	.	.	5295.171	4298.426	CP118 <sup>I</sup>
CP118 <sup>I</sup>	CP118 <sup>I2</sup>			342 37 20	3.536			.	.	.	.	5298.546	4297.370	CP118 <sup>I2</sup>
CP118 <sup>I2</sup>	CP110 <sup>I'</sup>			.	129.834			.	.	.	.	5422.454	4258.593	CP110 <sup>I'</sup>
CP110 <sup>I'</sup>	CP110 <sup>II</sup>			.	3.514			.	.	.	.	5426.818	4257.543	CP110 <sup>II</sup>
CP110 <sup>II</sup>	CP110 <sup>II2</sup>			71 55 30	3.514			.	.	.	.	5426.898	4260.884	CP110 <sup>II2</sup>
CP110 <sup>II2</sup>	CP111 <sup>III'</sup>			.	46.336			.	.	.	.	5441.275	4304.934	CP111 <sup>III'</sup>
CP111 <sup>III'</sup>	CP111 <sup>III</sup>			.	3.557			.	.	.	.	5442.379	4308.315	CP111 <sup>III</sup>
CP111 <sup>III</sup>	CP111 <sup>III2</sup>			162 37 20	3.557			.	.	.	.	5438.984	4309.377	CP111 <sup>III2</sup>
CP111 <sup>III2</sup>	CP119 <sup>IV'</sup>			.	130.441			.	.	.	.	5314.497	4348.337	CP119 <sup>IV'</sup>
CP119 <sup>IV'</sup>	CP119 <sup>IV</sup>			.	3.536			.	.	.	.	5311.122	4349.393	CP119 <sup>IV</sup>
CP119 <sup>IV</sup>	CP119 <sup>IV2</sup>			252 37 20	3.536			.	.	.	.	5310.066	4346.018	CP119 <sup>IV2</sup>
CP119 <sup>IV2</sup>	CP118 <sup>I'</sup>			.	46.333			.	.	.	.	5296.227	4301.801	CP118 <sup>I'</sup>
CP118 <sup>I'</sup>	CP118 <sup>I</sup>			.	3.536			.	.	.	.	5295.171	4298.426	CP118 <sup>I</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)	+	-	+	-	
66 筆番号 保	1	5342.026	-	9	51.293	4217.827	-	+	61.536	2586.112	-	6043.780
	4	5406.278	-	9	77.714	4197.701	-	9	21.123	2244.910	-	7592.736
	9110 II <sub>1</sub>	5419.740	-	9	11.171	4238.950	-	9	45.692	5471.160	-	1552.210
	9110 III <sub>2</sub>	5417.449	-	↑	81.324	4243.893	-	9	22.616	2655.052	3650.039	-
	9115 IV <sub>1</sub>	5359.416	-	↑	62.464	4261.556	-	9	15.844	941.387	10091.424	-
	IV <sub>2</sub>	5354.925	-	↑	17.390	4259.227	-	+	43.729	2404.439	2769.121	-

控除シタル値

X=於テ 5.370'  
y=於テ 4.150'

$\bar{x} = 4990$      $\bar{y} = 55111312$      $\bar{z} = 20510$      $\bar{w} = 604$      $\bar{v} = 15188$      $\bar{u} = 446$   
 $\sum x = 6321.958$      $\sum y = 6321.958$   
 $S = 3160979$   
 956.19619 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)	+	-	+	-	
66 筆番号 101~5	9116 IV	5328.214	-	9	16.908	4173.697	-	+	24.126	962.831	-	400.669
	291	5355.292	-	9	34.118	4173.067	-	+	0.464	25.655	-	752.892
	3	5362.332	-	9	14.299	4173.233	-	9	24.259	1518.345	-	332.209
	5	5369.591	-	↑	23.948	4196.426	-	9	32.960	2293.719	1111.810	-
	2	5338.284	-	↑	41.377	4206.193	-	↑	22.729	872.420	2325.098	-

控除シタル値

X=於テ 5.300-  
y=於テ 4.150-

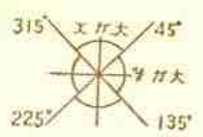
$\bar{x} = 1840$      $\bar{y} = 916$      $\bar{z} = 3212$      $\bar{w} = 264$      $\bar{v} = 3436$      $\bar{u} = 908$      $\bar{t} = 1485$      $\bar{s} = 760$   
 $\sum x = 1751.148$      $\sum y = 1751.148$   
 $S = 975.574$   
 295.1119 年 月 日



66

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	
	pp15 IV											5356.041	4262.612	pp15 IV
pp15 IV	pp15 IV <sub>2</sub>			252 37 20	3.536	298671	954356					5354.985	4259.237	pp15 IV <sub>2</sub>
pp15 IV <sub>2</sub>	1				43.390	"	"		12.959		41.410	5342.026	4212.827	1
1	2	89.632			12.192	"	"					5338.384	4206.193	2
2	pp16 IV				34.050	"	"		10.170		32.496	5328.214	4173.497	pp16 IV
pp16 IV	a 91			256 33 16	27.127							5355.292	4172.067	a 91
a 91	3		10.507	9 24 18	7.137							5362.332	4173.233	3
3	a 90			"	8.370							5365.158	4173.784	a 90
a 90	a 89			18 21 17	10.149							5375.291	4176.980	a 89
a 89	pp10 9 III			24 30 40	31.278							5400.750	4189.956	pp10 9 III
pp10 9 III	4		51.537	71 55 30	8.147	310262	950651					5406.278	4197.701	4
4	pp110 III <sub>1</sub>			"	43.390	"	"	13.462		41.749		5419.740	4238.950	pp110 III <sub>1</sub>
pp110 III <sub>1</sub>	pp110 III			"	3.557							5420.844	4242.331	pp110 III
pp110 III	pp110 III <sub>2</sub>			162 37 20	3.557							5417.449	4243.393	pp110 III <sub>2</sub>
pp110 III <sub>2</sub>	pp115 IV <sub>1</sub>			"	60.809							5359.416	4261.556	pp115 IV <sub>1</sub>
pp115 IV <sub>1</sub>	pp115 IV			"	3.536							5356.041	4262.612	pp115 IV
2	5											5338.384	4206.193	2
2	5			342 37 20	32.700	298671	954356	31.207		9.767		5369.597	4196.426	5

協和建設測量

$X_2 = 1513421.026$        $Y_2 = 142117.1827$   
 $X_1 = 1546161.1278$        $Y_1 = 141917.1767$   
 $\Delta X = -32740.1018$        $\Delta Y = -200.0060$   
 $\text{Log} \Delta y = 1.0000000$   
 $\text{Log} \Delta X = 1.0000000$   
 $\text{Logtan} B = 1.311312131513$   
 $B = 1171^\circ - 23' - 33''$   
 $\text{Log} \Delta y = 1.0000000$        $\text{Log} \Delta X = 1.0000000$   
 $\text{Logsin} B = 1.0000000$        $\text{Logcos} B = 1.0000000$   
 $\text{Log} D = 1.1219181911519$        $\text{Log} D = 1.1915141217915$   
 $\Delta x_2 = 1.0000000$   
 $\Delta y_2 = 1.0000000$   
 $D_2 = 1.1617133101$       距離 = 1617 K 3.310  
 $D = 1.1617133101$       方位角  $a = 1171^\circ - 23' - 33''$

$X_2 = 1.0000000$        $Y_2 = 1.0000000$   
 $X_1 = 1.0000000$        $Y_1 = 1.0000000$   
 $\Delta X = 0.0000000$        $\Delta Y = 0.0000000$   
 $\text{Log} \Delta y = 1.0000000$   
 $\text{Log} \Delta X = 1.0000000$   
 $\text{Logtan} B = 1.0000000$   
 $B = 0^\circ - 0' - 0''$   
 $\text{Log} \Delta y = 1.0000000$        $\text{Log} \Delta X = 1.0000000$   
 $\text{Logsin} B = 1.0000000$        $\text{Logcos} B = 1.0000000$   
 $\text{Log} D = 1.0000000$        $\text{Log} D = 1.0000000$   
 $\Delta x_2 = 1.0000000$   
 $\Delta y_2 = 1.0000000$   
 $D_2 = 1.0000000$       距離 = 1 K 1.000  
 $D = 1.0000000$       方位角  $a = 0^\circ - 0' - 0''$

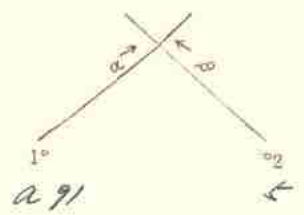
$\Delta X$	$\Delta Y$	B, 在 a 象限	X ヲ出 スニハ
+	+	I	B
-	+	II	$180^\circ - B$
-	-	III	$180^\circ + B$
+	-	IV	$360^\circ - B$

$X_2 = 1.0000000$        $Y_2 = 1.0000000$   
 $X_1 = 1.0000000$        $Y_1 = 1.0000000$   
 $\Delta X = 0.0000000$        $\Delta y = 0.0000000$   
 $\text{Log} \Delta y = 1.0000000$   
 $\text{Log} \Delta X = 1.0000000$   
 $\text{Logtan} B = 1.0000000$   
 $B = 0^\circ - 0' - 0''$   
 $\text{Log} \Delta y = 1.0000000$        $\text{Log} \Delta X = 1.0000000$   
 $\text{Logsin} B = 1.0000000$        $\text{Logcos} B = 1.0000000$   
 $\text{Log} D = 1.0000000$        $\text{Log} D = 1.0000000$   
 $\Delta x_2 = 1.0000000$   
 $\Delta y_2 = 1.0000000$   
 $D_2 = 1.0000000$       距離 = 1 K 1.000  
 $D = 1.0000000$       方位角  $a = 0^\circ - 0' - 0''$

$X_2 = 1.0000000$        $Y_2 = 1.0000000$   
 $X_1 = 1.0000000$        $Y_1 = 1.0000000$   
 $\Delta X = 0.0000000$        $\Delta y = 0.0000000$   
 $\text{Log} \Delta y = 1.0000000$   
 $\text{Log} \Delta X = 1.0000000$   
 $\text{Logtan} B = 1.0000000$   
 $B = 0^\circ - 0' - 0''$   
 $\text{Log} \Delta y = 1.0000000$        $\text{Log} \Delta X = 1.0000000$   
 $\text{Logsin} B = 1.0000000$        $\text{Logcos} B = 1.0000000$   
 $\text{Log} D = 1.0000000$        $\text{Log} D = 1.0000000$   
 $\Delta x_2 = 1.0000000$   
 $\Delta y_2 = 1.0000000$   
 $D_2 = 1.0000000$       距離 = 1 K 1.000  
 $D = 1.0000000$       方位角  $a = 0^\circ - 0' - 0''$

60

算出点 3



X2 = - 4369.491  
X1 = - 5315.512  
Delta X = - 1146.0219

alpha = 119 - 24 - 18  
beta = 252 - 37 - 20  
beta - alpha = 243 - 13 - 02

Delta Y x 3 = - 117.27533  
Delta X x 4 = - 117.5184634  
E = 116.37101

S1 = |E/3| = 117.12366

S1 x 1 = + 117.1040  
X1 = - 5315.5121912  
X = - 5366.12192

S1 x 2 = + 117.1766  
Y1 = - 4177.1067  
Y = - 4177.1239

Y2 = - 4196.426  
Y1 = - 4177.1067  
Delta Y = + 19.3193

Cos alpha = + . 19865581 1  
Sin alpha = + . 1634112 2  
Cos beta = - . 2198171 3  
Sin beta = - . 19543516 4  
Sin(beta-alpha) = - . 1987721 5

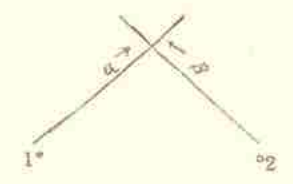
Delta Y x 1 = + 124.03157  
Delta X x 2 = + 117.032663  
F = 121.69494

S2 = |F/5| = 124.33998

S2 x 3 = - 117.258  
X2 = - 5366.12191  
X = - 5366.12191

S2 x 4 = - 124.1193  
Y2 = - 4196.426  
Y = - 4177.1239

算出点



X2 = -  
X1 = -  
Delta X = -

alpha =  
beta =  
beta - alpha =

Delta Y x 3 = -  
Delta X x 4 = -  
E =

S1 = |E/3| =

S1 x 1 = -  
X1 = -  
X = -

S1 x 2 = -  
Y1 = -  
Y = -

Y2 = -  
Y1 = -  
Delta Y = -

Cos alpha = -  
Sin alpha = -  
Cos beta = -  
Sin beta = -  
Sin(beta-alpha) = -

Delta Y x 1 = -  
Delta X x 2 = -  
F =

S2 = |F/5| =

S2 x 3 = -  
X2 = -  
X = -

S2 x 4 = -  
Y2 = -  
Y = -



# 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>	
67	84-2	570.044	172.43				
	101-1	1,560.144	471.94				
	101-2	1,020.741	308.77				
	101-3	117.002	35.39				
	101-4	694.223	210.00				
	係	2,522.003	762.90				
				計			
					m <sup>2</sup>		坪
				ブロック計算 =	6,484.143	ブロック計算 =	1,961.45
				各筆集計 =	4,484.157	各筆集計 =	1,961.43 (-)
				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)	+	-	+	-
67	1	5278.337	-	⊕ 48.922	4244.632	-	† 53.901	1527.393	,	,	2187.487
筆番号 係	7	5338.259	-	⊖ 70.977	4225.880	-	⊖ 16.397	,	1447.183	,	1735.461
	9p115 III	5349.259	-	⊖ 8.681	4261.029	-	⊖ 39.580	,	3928.671	,	529.793
	" III <sub>2</sub>	5346.940	-	† 55.491	4265.460	-	⊖ 21.071	,	2042.623	3632.441	,
	9p118 IV <sub>1</sub>	5293.768	-	† 57.603	4282.100	-	⊖ 14.321	,	626.802	4729.706	,
	IV <sub>2</sub>	5289.337	-	† 15.431	4279.781	-	† 37.468	1473.879	,	1231.101	,
	,	,	-	-	,	-	-	,	,	,	,

控除シタル値

Xニ於テ 5,250.-

Yニ於テ 4,200.-

$$\bar{x} = \frac{3001.272 + 8045.279 + 9592.748 + 4548.741}{25} = \frac{5044.007}{25} = 201.762$$

$$s = \frac{2522.003}{25} = 100.881$$

762.90519

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)	+	-	+	-
67	2	5265.497	-	† 29.669	4203.606	-	† 21.143	327.653	,	1590.436	,
筆番号 84-2	9p117 A	5266.824	-	⊖ 14.191	4175.892	-	† 28.314	193.215	,	,	267.433
	"	5279.688	-	⊖ 29.669	4175.292	-	⊖ 21.143	,	627.698	,	750.388
	12	5286.493	-	† 14.191	4197.085	-	⊖ 28.314	,	1033.263	567.474	,
,	,	-	-	,	-	-	,	,	,	,	,

控除シタル値

Xニ於テ 5,250.-

Yニ於テ 4,150.-

$$\bar{x} = \frac{520.868 + 1660.956 + 2257.910 + 117.821}{25} = \frac{1140.088}{25} = 45.603$$

$$s = \frac{570.044}{25} = 22.802$$

177.43819

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)	+	-	+	-
67											
筆番号	1	5278.337	-	+ 42.938	4244.632	-	+ 31.607	895.648		4063.329	
101-1	2	5265.497	-	⊖ 8.156	4203.606	-	+ 47.577	737.711			437.211
	12	5286.493	-	⊖ 14.191	4197.035	-	+ 28.314	1033.263			667.474
	3	5279.688	-	⊖ 3.108	4175.292	-	+ 22.008	653.255			78.608
	4	5289.601	-	⊖ 28.747	4175.031	-	⊖ 59.921		2372.932		719.566
	10	5308.435	-	+ 11.264	4235.713	-	⊖ 19.601		4067.134	3959.839	

控除シタル値

X = 於テ 5250.-

Y = 於テ 4150.-

$$\bar{x} = \frac{3319.877}{25} = 132.795$$

$$\bar{y} = \frac{1040.966}{25} = 41.639$$

$$S = 1560.1445$$

印  
日  
月  
年

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)	+	-	+	-
67											
筆番号	11	5301.800	-	+ 30.019	4214.012	-	+ 23.405	1730.379		1921.488	
101-2	4	5289.601	-	+ 16.987	4175.031	-	+ 39.747	1574.021			425.202
	0.92	5318.787	-	⊖ 32.443	4174.265	-	+ .962	66.173			787.230
	9416 II	5372.044	-	⊖ 10.059	4174.069	-	⊖ 21.538		1557.684		242.110
	5	5328.846	-	+ 3.204	4195.803	-	⊖ 25.491		2009.863	238.359	
	9	5316.840	-	+ 9.228	4199.560	-	⊖ 10.633		844.390	457.340	
	8	5319.618	-	+ 15.080	4208.436	-	⊖ 14.452		1006.119	878.877	

控除シタル値

X = 於テ 5250

Y = 於テ 4150

$$\bar{x} = \frac{3470.570}{25} = 138.823$$

$$\bar{y} = \frac{1047.056}{25} = 41.882$$

$$S = 1020.741$$

印  
日  
月  
年

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)	+	-	+	-
67	10	5308.435	-	⊕ 36.459	4235.213	-	+	11.868	100.107		
101-2	11	5307.800	-	⊖ 23.189	4214.012	-	+	30.534	54.961		1283.231
	6	5331.424	-	⊖ 36.459	4204.179	-	-	11.868		375.314	324.924
	7	5338.259	-	⊕ 23.189	4225.980	-	-	30.534		1168.200	170.592
										600.131	

控除シクル値

X = 於テ 5300

Y = 於テ 4200

$$\bar{X} = \frac{155.068 + 1543.514 + 1883.962 + 495.416}{25} = \frac{1388.446}{25} = 55.53784$$

S = 694.223

年 月 日

210.0074

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)	+	-	+	-
67	8	5319.618	-	* 14.784	4208.436	-	+	6.119	100.425		
101-3	9	5316.840	-	⊖ 9.228	4199.560	-	+	12.633	212.740		863.918
	5	5328.846	-	⊖ 14.784	4195.802	-	⊖	6.119		147.663	457.340
	6	5331.624	-	* 9.228	4204.679	-	⊖	12.633		399.506	677.152

控除シクル値

X = 於テ 5300

Y = 於テ 4150

$$\bar{X} = \frac{510.164 + 547.169 + 1368.496 + 1134.492}{25} = \frac{234.004}{25} = 9.36016$$

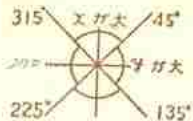
S = 117.002

年 月 日

多角点計算用紙

67

測量No.



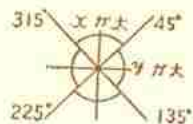
象	I	+	/	+	/
限	II	/	-	+	/
	III	/	-	-	/
	IV	+	/	-	/

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	
	99118 IV											5290.393	4283.156	99118 IV
99118 IV	99118 IV <sub>2</sub>			252 37 20	3.536	298671	954956					5289.337	4279.781	99118 IV <sub>2</sub>
99118 IV <sub>2</sub>	1			"	36.830				11.000		25.149	5278.337	4246.432	1
1	2	108.858		"	42.988							5265.487	4203.606	2
2	99117 IV			"	29.040				8.673		27.714	5256.824	4175.392	99117 IV
99117 IV	3			358 29 44	22.872							5279.488	4175.292	3
3	4	61.984		"	9.916							5289.601	4175.031	4
4	092			"	29.196							5318.787	4174.265	092
092	99116 II			356 33 16	3.263							5322.044	4174.069	99116 II
99116 II	5			72 37 20	22.775							5328.346	4185.803	5
5	6	91.120		"	9.300			2.778		8.876		5331.624	4204.679	6
6	7			"	22.215			6.635		21.020		5338.259	4235.880	7
7	99115 III			"	36.830			11.000		25.149		5349.259	4261.029	99115 III
99115 III	99115 III			"	3.536							5350.215	4264.404	99115 III
99115 III	99115 III <sub>2</sub>			162 37 20	3.536							5346.940	4265.460	99115 III <sub>2</sub>
99115 III <sub>2</sub>	99118 IV <sub>1</sub>			"	55.716							5293.768	4282.100	99118 IV <sub>1</sub>
99118 IV <sub>1</sub>	99118 IV			"	3.536							5290.393	4283.156	99118 IV

67

多角点計算用紙

測量No. \_\_\_\_\_

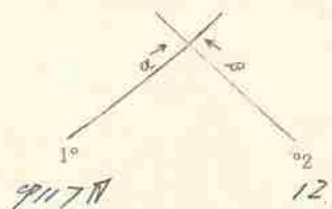


象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	+

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	
	2	1	"	252 37 20	.									
2	12	90 00 00		342 37 20	22.000	298671	954356	20.996		6.571	5265.497	4203.606	2	
	1			252 37 20	.									
1	10	90 00 00		342 37 20	31.538	298671	954356	30.098		9.419	5278.207	4244.132	10	
10	11			252 37 20	22.215				6.635	21.201	5301.800	4214.012	11	
	6			162 37 20	.									
6	8			162 37 20	12.580	298671	954356		12.006	3.757	5331.624	4206.679	6	
8	9	90 00 00		252 37 20	9.300				2.778	8.876	5319.118	4208.436	8	
	9			252 37 20	9.300						5316.840	4199.560	9	

路線交叉點座標及距離計算用紙

算出點 3



$$\begin{aligned}
 12 \quad X_2 &= -52861.493 \\
 911711 \quad X_1 &= -52561.824 \\
 \Delta X &= -112191.6169
 \end{aligned}$$

$$\begin{aligned}
 \alpha &= 258^\circ - 28' - 44'' \\
 \beta &= 252^\circ - 37' - 20'' \\
 \beta - \alpha &= 74^\circ - 07' - 36''
 \end{aligned}$$

$$\begin{aligned}
 \Delta Y \times ③ &= 9116.31480 \\
 \Delta X \times ④ &= 0128.31479 \\
 E &= 121.99999
 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 122.8721$$

$$\begin{aligned}
 S_1 \times ① &= +122.864 \\
 X_1 &= -52561.824 \\
 X &= -52719.688
 \end{aligned}$$

$$\begin{aligned}
 S_1 \times ② &= 9111.600 \\
 Y_1 &= -41751.892 \\
 Y &= -41751.292
 \end{aligned}$$

$$\begin{aligned}
 Y_2 &= -4197.035 \\
 Y_1 &= -41751.892 \\
 \Delta Y &= +121.743
 \end{aligned}$$

$$\begin{aligned}
 \cos \alpha &= +0.1999655 \quad ① \\
 \sin \alpha &= 0.0216254 \quad ② \\
 \cos \beta &= 0.1298671 \quad ③ \\
 \sin \beta &= 0.19541356 \quad ④ \\
 \sin(\beta - \alpha) &= -0.1961869 \quad ⑤
 \end{aligned}$$

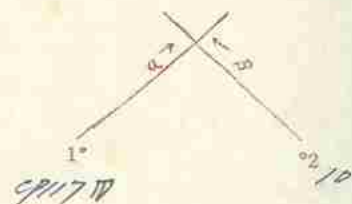
$$\begin{aligned}
 \Delta Y \times ① &= +121.13571 \\
 \Delta X \times ② &= 9110.77893 \\
 F &= 121.91464
 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 122.7894$$

$$\begin{aligned}
 S_2 \times ③ &= 9116.805 \\
 X_2 &= -52861.493 \\
 X &= -52719.688
 \end{aligned}$$

$$\begin{aligned}
 S_2 \times ④ &= 9121.743 \\
 Y_2 &= -4197.035 \\
 Y &= -41751.292
 \end{aligned}$$

算出點 4



$$\begin{aligned}
 10 \quad X_2 &= -5308.435 \\
 911711 \quad X_1 &= -52561.824 \\
 \Delta X &= -1151.611
 \end{aligned}$$

$$\begin{aligned}
 \alpha &= 258^\circ - 29' - 44'' \\
 \beta &= 252^\circ - 37' - 20'' \\
 \beta - \alpha &= 74^\circ - 07' - 36''
 \end{aligned}$$

$$\begin{aligned}
 \Delta Y \times ③ &= 9117.71746 \\
 \Delta X \times ④ &= 9149.25527 \\
 E &= 111.53781
 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 121.7881$$

$$\begin{aligned}
 S_1 \times ① &= +121.777 \\
 X_1 &= -52561.824 \\
 X &= -52719.688
 \end{aligned}$$

$$\begin{aligned}
 S_1 \times ② &= 9111.661 \\
 Y_1 &= -41751.892 \\
 Y &= -41751.501
 \end{aligned}$$

$$\begin{aligned}
 Y_2 &= -4225.1213 \\
 Y_1 &= -41751.892 \\
 \Delta Y &= +151.7707
 \end{aligned}$$

$$\begin{aligned}
 \cos \alpha &= +0.1999655 \quad ① \\
 \sin \alpha &= 0.0216254 \quad ② \\
 \cos \beta &= 0.1298671 \quad ③ \\
 \sin \beta &= 0.19541356 \quad ④ \\
 \sin(\beta - \alpha) &= -0.1961869 \quad ⑤
 \end{aligned}$$

$$\begin{aligned}
 \Delta Y \times ① &= +151.90000 \\
 \Delta X \times ② &= 9111.05500 \\
 F &= 160.15500
 \end{aligned}$$

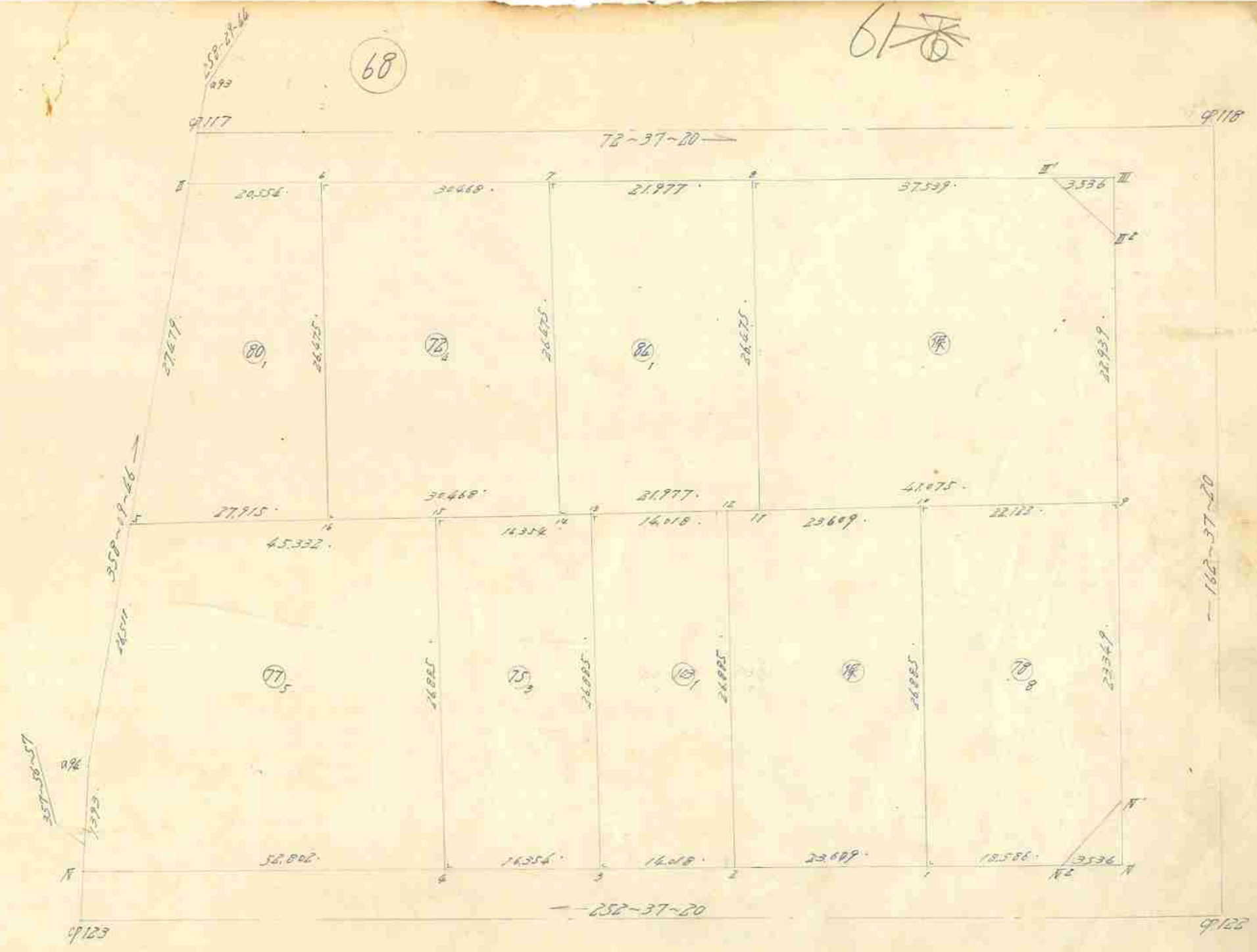
$$S_2 = \frac{F}{⑤} = 161.6601$$

$$\begin{aligned}
 S_2 \times ③ &= -111.8134 \\
 X_2 &= -52719.688 \\
 X &= -52719.688
 \end{aligned}$$

$$\begin{aligned}
 S_2 \times ④ &= -1150.182 \\
 Y_2 &= -4225.1213 \\
 Y &= -41751.501
 \end{aligned}$$

61 

68





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)	+	-	+	-
68											
筆番号	16	5231.467	-	33.603	4203.604	-	118.735	214.834		1129.195	
80	5	5223.131	-	19.129	4176.962	-	127.523	86.175			133.176
9117	5	5250.596	-	33.603	4176.081	-	918.735		573.216		204.340
	6	5256.734	-	19.129	4195.697	-	927.523		1011.030	491.558	

控除シクル値

X = 於テ 5220

y = 於テ 4170

$$M = \frac{301.009}{28} = \frac{1584.246}{1283.237} = \frac{1620.753}{1283.237} = \frac{337.516}{641.618}$$

S = 641.618

194.09<sup>29</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											
○											

控除シクル値

X = 於テ

y = 於テ

$$M =$$

$$28 =$$

$$S =$$

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)	+	-	+	-
68	14	5240.567	-	+34.368	4230.881	-	+21.170	223.703		1466.861	
筆番号	16	5231.467	-	+16.167	4203.604	-	+36.984	54.256			219.936
74	6	5256.734	-	+34.368	4195.697	-	+21.170		565.959		195.794
	7	5265.835	-	+16.167	4204.774	-	+36.984		1325.322	568.191	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5230

y = 於テ 4190

$$\bar{x} = \frac{277.959}{28} = \frac{1.891.281}{1.613.322} = \frac{2.029.052}{1.613.322} = \frac{415.730}{1.613.322}$$

S = 806.661  
244.017 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)	+	-	+	-
68	4	5211.013	-	+41.427	4228.255	-	+42.366	890.195		2413.330	
筆番号	9/23	5195.242	-	+14.379	4177.862	-	+50.443	1264.422		113.048	
75	9/4	5196.634	-	+27.889	4177.812	-	+900	5.971			217.869
	5	5223.131	-	+40.635	4176.962	-	+42.416		1405.218		278.724
	15	5236.669	-	+12.118	4220.226	-	+51.293		2392.792	608.639	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5190

y = 於テ 4170

$$\bar{x} = \frac{1.160.588}{28} = \frac{3.799.011}{2.638.423} = \frac{3.135.017}{2.638.423} = \frac{496.593}{2.638.423}$$

S = 1319.212  
399.067 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)	+	-	+	-
68											
筆番号	2	5,220,084	-	+ 29,846	4,257,241	-	+ 5,348	59,929		812,980	
103	3	5,215,897	-	+ 21,470	4,243,863	-	+ 21,408	126,243			297,639
	13	5,241,554	-	+ 29,846	4,235,833	-	+ 5,348		768,751		174,080
	12	5,245,741	-	+ 21,470	4,249,211	-	+ 21,408		765,143	412,460	

控除シクル値

X=於テ 5,210

y=於テ 4,230

$$\bar{x} = \frac{180,172}{25} = 7,206.88$$

$$\bar{y} = \frac{933,896}{25} = 37,355.84$$

$$s_x = \frac{1,225,440}{25} = 49,017.6$$

$$s_y = \frac{477,719}{25} = 19,108.76$$

$$S = 376,861$$

114.00<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)	+	-	+	-
68											
筆番号	3	5,215,897	-	+ 30,561	4,243,863	-	+ 7,578	44,687		728,800	
75 <sub>3</sub>	4	5,211,013	-	+ 20,772	4,228,255	-	+ 23,637	23,942			171,473
	15	5,236,669	-	+ 30,561	4,220,226	-	+ 7,578		202,098		6,902
	13	5,241,554	-	+ 20,772	4,235,833	-	+ 23,637		745,842	328,883	

控除シクル値

X=於テ 5,210

y=於テ 4,220

$$\bar{x} = \frac{68,631}{25} = 2,745.24$$

$$\bar{y} = \frac{947,940}{25} = 37,917.6$$

$$s_x = \frac{1,057,683}{25} = 42,307.32$$

$$s_y = \frac{178,375}{25} = 7,135$$

$$S = 439,656$$

133.00<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)	+	-	+	-
68											
筆番号	9	5,259,400	-	+ 34,160	4,292,854	-	+ 32,350	127,590	,	1,805,493	,
(仮)	11	5,247,132	-	+ 12,999	4,253,654	-	+ 47,106	335,960	,	,	177,488
	8	5,272,399	-	+ 36,479	4,245,748	-	+ 27,919	,	904,548	,	209,681
	9118	5,283,611	-	+ 8,899	4,281,573	-	+ 40,256	,	1755,604	,	369,709
	9118	5,281,292	-	+ 24,211	4,286,004	-	+ 11,281	,	465,815	1,113,803	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,

控除シタル値

X = 於テ 5,240

Y = 於テ 4,240

$$\Sigma = \frac{963,550}{28} = 3,441,250 \quad \frac{3,125,967}{28} = 111,641,857 \quad \frac{2,919,296}{28} = 104,282,000 \quad \frac{756,878}{28} = 27,031,357$$

$$2S = \frac{2,162,417}{28} = 77,229,179 \quad \frac{2,162,418}{28} = 77,229,214$$

$$S = 1,081,209$$

327.06<sup>27</sup> 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)	+	-	+	-
68											
筆番号	11	5,247,132	-	+ 31,832	4,253,654	-	+ 13,067	99,194	,	1071,274	,
(84)	14	5,240,567	-	+ 18,703	4,232,681	-	+ 28,880	16,375	,	,	237,173
	7	5,265,835	-	+ 31,832	4,224,774	-	+ 13,067	,	337,586	,	151,966
	8	5,272,399	-	+ 18,703	4,245,748	-	+ 28,880	,	735,682	481,565	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,
			-	,	,	-	,	,	,	,	,

控除シタル値

X = 於テ 5,240

Y = 於テ 4,220

$$\Sigma = \frac{109,569}{28} = 3,916,750 \quad \frac{1,273,269}{28} = 45,473,893 \quad \frac{1,552,839}{28} = 55,458,535 \quad \frac{389,139}{28} = 13,897,821$$

$$2S = \frac{2,162,700}{28} = 77,239,286 \quad \frac{2,162,700}{28} = 77,239,286$$

$$S = 581,850$$

176.01<sup>27</sup> 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)	+	-	+	-
68											
筆番号	9122 <sup>ア</sup>	5232.886	-	+ 9.982	4297.509	-	+ 20.056	254.430		274.595	
⑩	1	5227.135	-	+ 20.107	4279.772	-	+ 25.767	183.868			196.486
	10	5252.793	-	+ 32.265	4271.742	-	+ 13.082		428.998		56.206
	9	5259.400	-	+ 15.676	4292.854	-	+ 28.086		1106.588	358.259	
	9122 <sup>イ</sup>	5237.117	-	+ 26.714	4299.828	-	+ 4.655		79.680	796.825	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5220

y = 於テ 4270

$$\sum = \frac{438.278}{28} \quad \frac{1615.266}{28} \quad \frac{1429.679}{28} \quad \frac{252.692}{28}$$

$$2S = \frac{1176.988}{28}$$

$$\frac{1176.987}{28}$$

$$S = 588.494$$

$$178.029$$

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)	+	-	+	-
68											
筆番号	1	5227.135	-	+ 32.709	4279.772	-	+ 14.501	703.465		1955.082	
⑩	2	5220.084	-	+ 18.606	4257.241	-	+ 30.561	2.567			692.906
	18	5245.741	-	+ 32.709	4249.211	-	+ 14.501		373.270		955.463
	10	5252.793	-	+ 18.606	4271.742	-	+ 30.561		1002.187	962.712	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5220

y = 於テ 4220

$$\sum = \frac{106.032}{28} \quad \frac{1375.457}{28} \quad \frac{2917.794}{28} \quad \frac{1642.369}{28}$$

$$2S = \frac{1269.425}{28}$$

$$\frac{1269.425}{28}$$

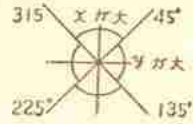
$$S = 634.713$$

$$192.009$$

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

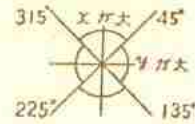


象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	+

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	
	9122 <sup>N</sup>	° 1 "		° 1 "	.			.	.	.	.	5233.742	4300.884	9122 <sup>N</sup>
9122 <sup>N</sup>	9122 <sup>N</sup>			252 37 20	3.536			.	.	.	.	5232.686	4297.509	9122 <sup>N</sup>
9122 <sup>N</sup>	1			"	18.586			.	.	.	.	5227.125	4278.772	1
1	2			"	23.609			.	.	.	.	5220.084	4257.261	2
2	3	125.369		"	14.018			.	.	.	.	5215.897	4243.863	3
3	4			"	16.354			.	.	.	.	5211.013	4228.255	4
4	9123 <sup>N</sup>			"	52.802			.	.	.	.	5195.262	4177.862	9123 <sup>N</sup>
9123 <sup>N</sup>	094			357 56 57	1.393			.	.	.	.	5196.634	4177.812	094
094	5	53.990		358 09 46	26.511			.	.	.	.	5223.131	4176.962	5
5	9117 <sup>N</sup>			"	27.479			.	.	.	.	5250.596	4176.081	9117 <sup>N</sup>
9117 <sup>N</sup>	6			72 37 20	20.554			.	.	.	.	5256.734	4195.697	6
6	7	110.538		"	30.468			.	.	.	.	5265.825	4226.774	7
7	8			"	21.977			.	.	.	.	5272.399	4245.748	8
8	9118 <sup>N</sup>			"	37.539			.	.	.	.	5283.611	4281.573	9118 <sup>N</sup>
9118 <sup>N</sup>	9118 <sup>N</sup>			"	3.536			.	.	.	.	5284.667	4284.948	9118 <sup>N</sup>
9118 <sup>N</sup>	9118 <sup>N</sup>			162 37 20	3.536			.	.	.	.	5281.292	4286.004	9118 <sup>N</sup>
9118 <sup>N</sup>	9	46.288		"	22.939			.	.	.	.	5259.400	4292.854	9
9	9122 <sup>N</sup>			"	23.349			.	.	.	.	5237.117	4298.828	9122 <sup>N</sup>
9122 <sup>N</sup>	9122 <sup>N</sup>			"	3.536			.	.	.	.	5233.742	4300.884	9122 <sup>N</sup>

多角点計算用紙

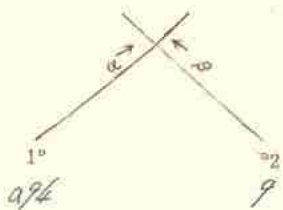
測量No. \_\_\_\_\_



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	
	9122 <sup>IV</sup>	° 1 "		° 1 "	.			.	.	.	5233.742	4300.884	9122 <sup>IV</sup>	
9122 <sup>IV</sup>	9			342 37 20	26.885	298671	954356 <sup>(A)</sup>	25.658	.	.	8.0305259.600	4292.854	9	
9	10			252 37 20	22.122	"	"	.	6.607	.	21.112 5252.793	4271.742	10	
10	11			"	18.953	"	"	.	5.661	.	18.088 5247.132	4253.654	11	
11	12			"	4.656	"	"	.	1.391	.	4.443 5245.741	4249.211	12	
12	13			"	14.018	"	"	.	4.187	.	13.378 5241.554	4235.833	13	
13	14			"	3.303	"	"	.	.987	.	3.152 5240.567	4232.681	14	
14	15			"	12.051	"	"	.	3.898	.	12.455 5236.669	4220.226	15	
15	16			"	17.417	"	"	.	5.202	.	16.622 5231.467	4203.604	16	
16	6			342 37 20	26.475	"	"	25.267 <sup>(A)</sup>	.	.	7.907 5256.734	4195.697	6	
6	9117 <sup>II</sup>			252 37 20	20.554	"	"	.	6.139 <sup>(A)</sup>	.	19.616 5250.596	4176.081	9117 <sup>II</sup>	
	9118 <sup>III</sup>			.	.			.	.	.	5286.667	4286.948	9118 <sup>III</sup>	
9118 <sup>III</sup>	8			252 37 20	41.075	298671	954356	.	12.268	.	39.200 5272.399	4245.748	8	
8	7			"	21.977	"	"	.	6.564	.	20.974 5265.835	4224.774	7	
	9122 <sup>IV</sup>			.	.			.	.	.	5233.742	4300.884	9122 <sup>IV</sup>	
9122 <sup>IV</sup>	1			252 37 20	22.122	298671	954356	.	6.607	.	21.112 5227.135	4279.772	1	
1	2			"	23.609	"	"	.	7.051	.	22.531 5220.084	4257.241	2	
2	3			"	14.018	"	"	.	4.187	.	13.378 5215.897	4243.863	3	
3	4			"	16.354	"	"	.	4.884	.	15.608 5211.013	4228.255	4	

算出点 5



$$\begin{aligned} X_2 &= -525191.400 \\ X_1 &= -51961.634 \end{aligned}$$

$$\Delta X = -1681.766$$

$$\alpha = 125^\circ - 09' - 48''$$

$$\beta = 125^\circ - 37' - 20''$$

$$\beta - \alpha = 174^\circ - 27' - 32''$$

$$\Delta Y \times ③ = 9 \quad | \quad 134.135977$$

$$\Delta X \times ④ = 9 \quad | \quad 159.90111$$

$$E = 125.56120$$

$$S_1 = \frac{E}{⑤} = 126.52106$$

$$S_1 \times ① = + \quad | \quad 126.1497$$

$$X_1 = -51961.634 (+)$$

$$X = -522231.131$$

$$S_1 \times ② = 9 \quad | \quad 111.0850$$

$$Y_1 = -41771.812 (+)$$

$$Y = -41776.1962$$

$$Y_2 = -42921.854$$

$$Y_1 = -41771.812$$

$$\Delta Y = -1151.042$$

$$\text{Cos } \alpha = + \quad | \quad 1999486 \quad ①$$

$$\text{Sin } \alpha = 9 \quad | \quad 1022060 \quad ②$$

$$\text{Cos } \beta = 9 \quad | \quad 298671 \quad ③$$

$$\text{sin } \beta = 9 \quad | \quad 1954356 \quad ④$$

$$\text{Sin}(\beta - \alpha) = - \quad | \quad 1963461 \quad ⑤$$

$$\Delta Y \times ① = + \quad | \quad 116.98287$$

$$\Delta X \times ② = 9 \quad | \quad 12.01228$$

$$F = 116.99515$$

$$S_2 = \frac{F}{⑤} = 127.14247$$

$$S_2 \times ③ = 9 \quad | \quad 126.12619$$

$$X_2 = -525191.400 (+)$$

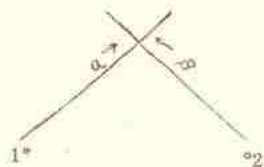
$$X = -522231.131$$

$$S_2 \times ④ = 9 \quad | \quad 11151.892$$

$$Y_2 = -42921.854 (+)$$

$$Y = -41776.1962$$

算出点



$$X_2 = -$$

$$X_1 = -$$

$$\Delta X = -$$

$$\alpha =$$

$$\beta =$$

$$\beta - \alpha =$$

$$\Delta Y \times ③ = -$$

$$\Delta X \times ④ = -$$

$$E =$$

$$S_1 = \frac{E}{⑤} =$$

$$S_1 \times ① = -$$

$$X_1 = -$$

$$X = -$$

$$S_1 \times ② = -$$

$$Y_1 = -$$

$$Y = -$$

$$Y_2 = -$$

$$Y_1 = -$$

$$\Delta Y = -$$

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

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

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

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

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

$$\Delta Y \times ① = -$$

$$\Delta X \times ② = -$$

$$F =$$

$$S_2 = \frac{F}{⑤} =$$

$$S_2 \times ③ = -$$

$$X_2 = -$$

$$X = -$$

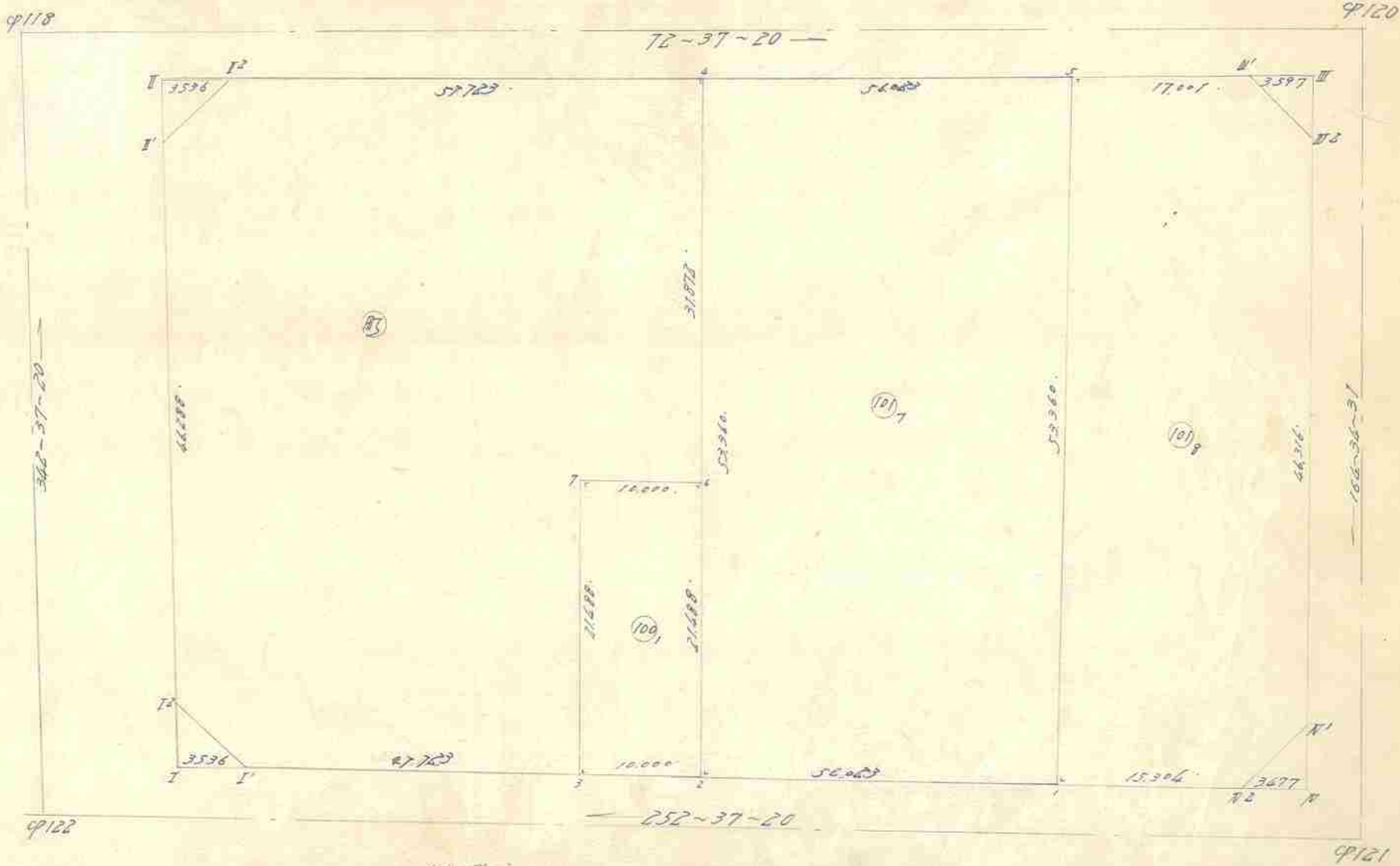
$$S_2 \times ④ = -$$

$$Y_2 = -$$

$$Y = -$$

60 ~~60~~

69



2.730 m = 90 ft



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)	+	-	+	-
69	2	5256.817	-	+ 23.494	4374.617	-	+ 3.126	21.510	,	578.852	,
筆番号	3	5253.830	-	+ 17.520	4365.073	-	+ 15.962	61.134	,	,	264.079
⑩	7	5274.337	-	+ 23.494	4358.655	-	+ 3.126	,	76.077	,	208.841
	6	5277.324	-	+ 17.520	4368.199	-	+ 15.962	,	126.146	318.866	,

控除シタル値

X=於テ 5.250

Y=於テ 4.350

Σ = 82 404 512 223 897 198 467 420

ΣS = 429.779 429.778

S = 216.889

650079 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)	+	-	+	-
69	3	5253.830	-	+ 34.761	4365.073	-	+ 39.126	942.373	,	2262.003	,
筆番号	9122 <sup>1</sup>	5239.576	-	+ 11.925	4319.529	-	+ 49.975	478.561	,	233.079	,
⑭	9122 <sup>2</sup>	5241.895	-	+ 26.494	4315.098	-	+ 18.555	817.143	,	,	701.966
	9118 <sup>1</sup>	5286.070	-	+ 48.606	4301.274	-	+ 11.505	645.085	,	,	61.924
	9118 <sup>2</sup>	5290.501	-	+ 21.671	4303.593	-	+ 57.406	,	3473.120	,	77.364
	4	5207.741	-	+ 13.177	4358.680	-	+ 64.606	,	5022.505	773.226	,
	6	5277.324	-	+ 33.404	4368.199	-	+ 0.225	1.120	,	2278.119	,
	7	5274.337	-	+ 23.494	4358.655	-	+ 3.126	108.597	,	1378.061	,

控除シタル値

X=於テ 5.230

Y=於テ 4.300

Σ = 2412 942 8095 655 6924 462 241 754

ΣS = 6022.713 6022.714

S = 3041.357

920.01 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)	+	-	+	-
69	1	5,273,549	-	+ 67,856	4,428,084	-	+ 67,856	323,794		522,861	
筆番号	2	5,256,817	-	⊖ 36,192	4,374,617	-	+ 69,404	473,127			861,706
⑩	4	5,207,741	-	⊖ 67,856	4,358,680	-	⊖ 37,530		2167,020		527,254
	5	5,224,473	-	+ 36,192	4,418,147	-	⊖ 69,604		5168,704	2124,930	

控除シタル値

X = 於テ 5,250

Y = 於テ 4,350

$$\bar{x} = \frac{1256721703570476077811428958}{25} = \frac{5978823}{25} = 2391529.211$$

$$S = \frac{9043057}{25} = 361722.28$$

$$S = 2989.471$$

9043057 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)	+	-	+	-
69	9121 <sup>#</sup>	5,278,120	-	+ 8,961	4,442,687	-	+ 16,996	138,008		292,908	
筆番号	1	5,273,549	-	⊖ 46,353	4,428,084	-	+ 30,540	108,386			838,248
⑩	5	5,226,473	-	⊖ 56,002	4,418,147	-	⊖ 287		15,634		120,237
	9120 <sup>#</sup>	5,329,551	-	⊖ 2,685	4,428,371	-	⊖ 20,614		1227,584		49,326
	9120 <sup>#</sup>	5,327,158	-	+ 47,041	4,438,761	-	⊖ 16,709		955,053	1,070,700	
	9121 <sup>#</sup>	5,222,510	-	+ 49,038	4,445,080	-	⊖ 9,926		124,174	1,720,253	

控除シタル値

X = 於テ 5,270

Y = 於テ 4,470

$$\bar{x} = \frac{246396232246530838611007811}{25} = \frac{2076051}{25} = 83042.04$$

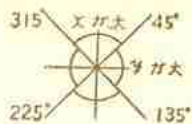
$$S = \frac{314007}{25} = 12560.28$$

$$S = 1038.025$$

314007 年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



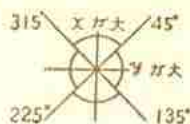
象 限	I	+	↗	+	↘
	II	+	↖	-	↘
	III	-	↖	-	↗
	IV	-	↗	+	↗

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	
	9121 <sup>↑</sup>	"		"	.			.	.	.	.	5279.158	4446.005	9121 <sup>↑</sup>
9121 <sup>↑</sup>	9121 <sup>↑</sup>			252 37 20	3.477			.	.	.	.	5278.120	4443.687	9121 <sup>↑</sup>
9121 <sup>↑</sup>	1			"	15.304			.	.	.	.	5273.549	4428.084	1
1	2	128.250		"	56.023			.	.	.	.	5256.817	4374.617	2
2	3			"	10.000			.	.	.	.	5252.820	4365.173	3
3	9122 <sup>↑</sup>			"	47.182			.	.	.	.	5239.576	4319.529	9122 <sup>↑</sup>
9122 <sup>↑</sup>	9122 <sup>↑</sup>			"	3.536			.	.	.	.	5238.520	4316.156	9122 <sup>↑</sup>
9122 <sup>↑</sup>	9122 <sup>↑</sup>			342 37 20	3.536			.	.	.	.	5241.895	4315.098	9122 <sup>↑</sup>
9122 <sup>↑</sup>	9118 <sup>↑</sup>			"	46.288			.	.	.	.	5286.070	4301.274	9118 <sup>↑</sup>
9118 <sup>↑</sup>	9118 <sup>↑</sup>			"	3.536			.	.	.	.	5288.445	4300.218	9118 <sup>↑</sup>
9118 <sup>↑</sup>	9118 <sup>↑</sup>			72 37 20	3.536			.	.	.	.	5290.501	4303.593	9118 <sup>↑</sup>
9118 <sup>↑</sup>	4			"	57.762			.	.	.	.	5307.741	4358.680	4
4	5	130.747		"	55.634			.	.	.	.	5324.673	4412.147	5
5	9120 <sup>↑</sup>			"	17.001			.	.	.	.	5329.551	4428.371	9120 <sup>↑</sup>
9120 <sup>↑</sup>	9120 <sup>↑</sup>			"	3.597			.	.	.	.	5330.625	4431.806	9120 <sup>↑</sup>
9120 <sup>↑</sup>	9120 <sup>↑</sup>			164 34 31	3.597			.	.	.	.	5327.158	4432.761	9120 <sup>↑</sup>
9120 <sup>↑</sup>	9121 <sup>↑</sup>			"	46.316			.	.	.	.	5282.510	4445.080	9121 <sup>↑</sup>
9121 <sup>↑</sup>	9121 <sup>↑</sup>			"	3.477			.	.	.	.	5282.158	4446.005	9121 <sup>↑</sup>

多角点計算用紙

測量No. \_\_\_\_\_

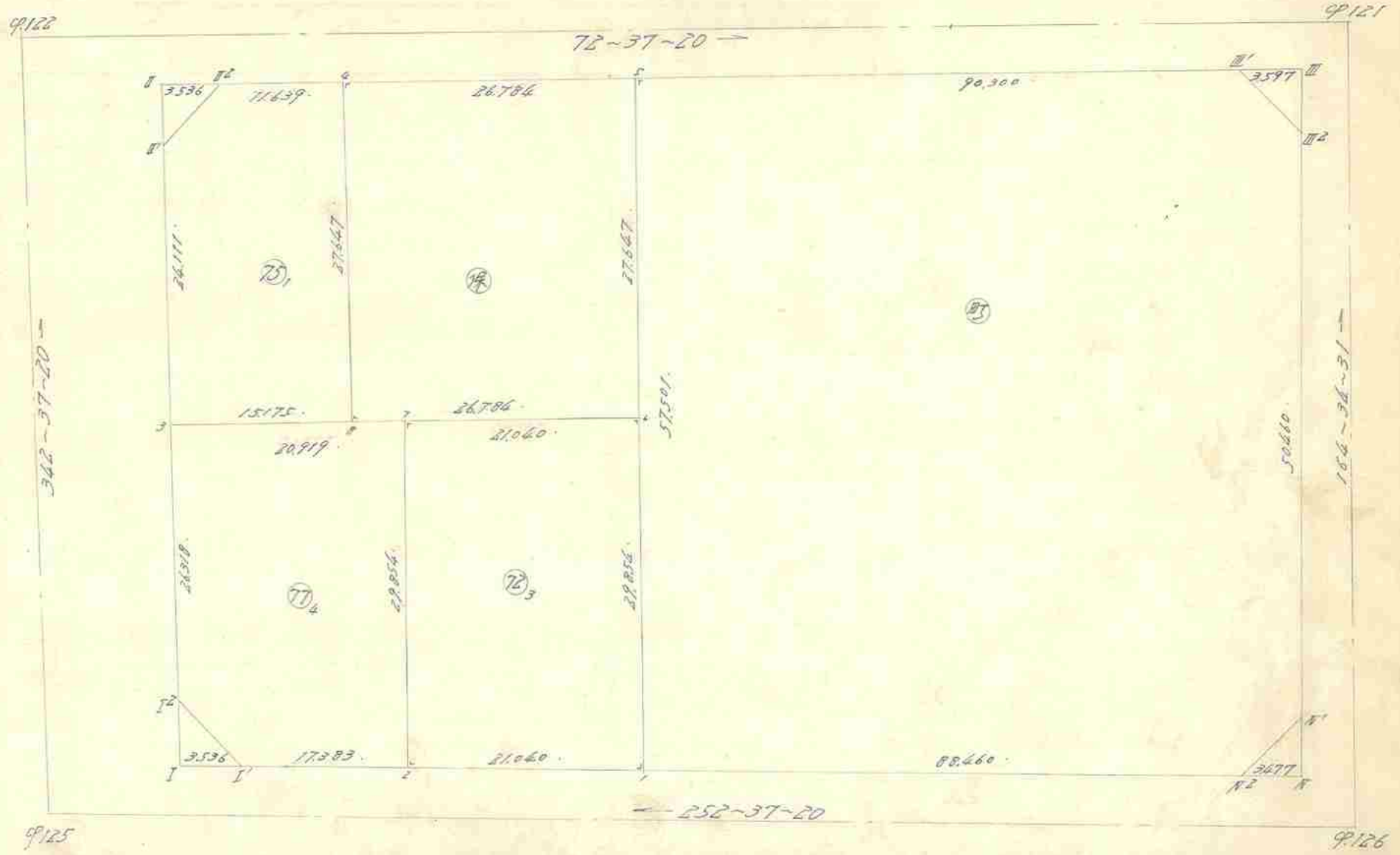
61.64A



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	
	9122 <sup>F</sup>	" "		" "	.			.	.	.	.	5038.520	4316.154	9122 <sup>F</sup>
9122 <sup>F</sup>	3			72 37 20	51.259	298671	954356	15.310	.	48.919	.	5253.830	4265.073	3
3	2			"	10.000	"	"	2.987	.	9.544	.	5256.817	4276.617	2
2	6			342 37 20	21.488	"	"	20.507	.	.	6.418	5277.324	4268.199	6
6	7			252 37 20	10.000	"	"	.	2.987	.	9.544	5274.737	4258.655	7
"	4			342 37 20	31.872	"	"	30.477	.	.	9.519	5307.761	4258.680	4
4	5			72 37 20	56.023	"	"	16.722	.	53.266	.	5324.473	4412.167	5
5	1			162 37 20	53.360	"	"	.	50.924	15.937	.	5273.549	4428.084	1
1	9121 <sup>F</sup>			72 37 20	18.781	"	"	5.609	.	17.924	.	5279.158	4466.005	9121 <sup>F</sup>

70



41,959



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)	+	-	+	-
70											
筆番号	9126 <sup>ア</sup>	5,216.871	-	+ 30.811	4,459.587	-	+ 86.816	2,332.833		3,376.485	
⑨	1	5,190.450	-	28.455	4,375.164	-	+ 101.597	45.719			716.062
	5	5,245.326	-	81.846	4,357.990	-	969.006		3,817.715		653.950
	9127 <sup>ア</sup>	5,272.296	-	24.577	4,444.168	-	990.568		7,453.384		2,314.367
	9127 <sup>イ</sup>	5,269.903	-	51.035	4,448.558	-	917.812		1,423.232	5,929.908	
	9126 <sup>イ</sup>	5,221.261	-	53.032	4,461.980	-	11.029		344.778	5,938.523	

控除シクル値

X = 於テ 5,190

y = 於テ 4,350

$\bar{x} = \frac{2,378.552}{25} = 95.142$

$\bar{y} = \frac{13,039.109}{25} = 521.564$

$S = 5,330.278$

1612.41<sup>ア</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)	+	-	+	-
筆番号	○										

控除シクル値

X = 於テ

y = 於テ

$M =$

$\bar{x} =$

$\bar{y} =$

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)	+	-	+	-
70											
筆番号 723	1	5,190.450	-	+34.775	4,375.164	-	+11.163	116.653		1,222.828	
	2	5,184.166	-	A 22.207	4,355.084	-	+28.997	120.802			334.970
	7	5,212.657	-	34.775	4,346.167	-	11.163		364.550		214.457
	6	5,218.941	-	+22.207	4,366.247	-	28.997		1,129.172	582.867	

控除シタル値  
 Xニ於テ 5,180  
 yニ於テ 4,360

$$\sum = \frac{237,455}{25} = 9,498.200$$

$$\sum = \frac{1493,722}{25} = 59,748.880$$

$$\sum = \frac{1,805,695}{25} = 72,227.800$$

$$\sum = \frac{549,427}{25} = 21,977.080$$

S = 628.136  
190.01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+Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
70											
筆番号 72	6	5,218.941	-	+34.385	4,366.247	-	+17.305	154.724		1,246.353	
	8	5,210.941	-	18.385	4,340.685	-	+33.819	31.824			196.444
	4	5,237.326	-	34.385	4,332.428	-	17.305		472.876		83.487
	5	5,245.326	-	+18.385	4,357.990	-	33.819		1,194.690	514.596	

控除シタル値  
 Xニ於テ 5,210  
 yニ於テ 4,330

$$\sum = \frac{186,548}{25} = 7,461.920$$

$$\sum = \frac{1,667,566}{25} = 66,702.640$$

$$\sum = \frac{1,760,949}{25} = 70,437.960$$

$$\sum = \frac{279,931}{25} = 11,197.240$$

S = 740.509  
224.00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)	+	-	+	-
70											
筆番号	2	5,184,766	-	+33,683	4,355,084	-	+7,672	108,682	,	1,181,734	,
㊦	9125 <sup>1</sup>	5,178,974	-	+12,873	4,338,495	-	+21,020	188,633	,	53,136	,
	9125 <sup>2</sup>	5,181,293	-	+27,435	4,334,064	-	+12,292	138,814	,		385,846
	3	5,206,409	-	+31,364	4,326,203	-	+12,103		440,658	,	194,551
	7	5,212,657	-	+22,243	4,346,167	-	+28,881		1,231,977	582,033	,

控除シタル値

X = 於テ 5,170

y = 於テ 4,320

$$\bar{z} = \frac{436,129}{28} = 15,576.0357$$

$$28 = \frac{1,236,506}{1,236,506}$$

$$S = 618,253$$

187.027 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)	+	-	+	-
70											
筆番号	8	5,210,941	-	+30,917	4,340,685	-	+6,225	68,108	,	948,688	,
㊦	3	5,206,409	-	+18,478	4,326,203	-	+21,683	138,966	,		299,399
	9122 <sup>1</sup>	5,229,419	-	+27,461	4,319,002	-	+4,882	143,624	,		247,024
	9122 <sup>2</sup>	5,233,850	-	+7,907	4,321,321	-	+13,426		454,470	,	89,515
	4	5,237,326	-	+22,909	4,332,428	-	+19,364		722,781	513,803	,

控除シタル値

X = 於テ 5,200

y = 於テ 4,310

$$\bar{z} = \frac{350,698}{28} = 12,525.0$$

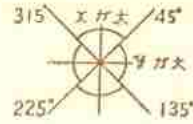
$$28 = \frac{826,553}{826,553}$$

$$S = 413,276$$

125.017 年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

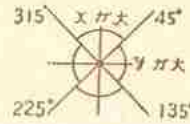


象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	+

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	
	9126 <sup>1</sup>	1	"	1	"	.	.	.	.	5217.909	4462.905	9126 <sup>1</sup>		
9126 <sup>1</sup>	9126 <sup>2</sup>			252 37 20	3.477	.	.	.	.	5216.871	4459.587	9126 <sup>2</sup>		
9126 <sup>2</sup>	1			"	88.460	.	.	.	.	5190.450	4375.164	1		
1	2	126.883		"	21.040	.	.	.	.	5184.166	4355.084	2		
2	9125 <sup>1</sup>			"	17.383	.	.	.	.	5178.974	4338.495	9125 <sup>1</sup>		
9125 <sup>1</sup>	9125 <sup>2</sup>			"	3.536	.	.	.	.	5177.918	4335.120	9125 <sup>2</sup>		
9125 <sup>2</sup>	9125 <sup>3</sup>			342 37 20	3.536	.	.	.	.	5181.293	4334.064	9125 <sup>3</sup>		
9125 <sup>3</sup>	3	50.439		"	26.318	.	.	.	.	5206.409	4326.203	3		
3	9122 <sup>1</sup>			"	24.111	.	.	.	.	5229.419	4319.002	9122 <sup>1</sup>		
9122 <sup>1</sup>	9122 <sup>2</sup>			"	3.536	.	.	.	.	5232.794	4317.946	9122 <sup>2</sup>		
9122 <sup>2</sup>	9122 <sup>3</sup>			72 37 20	3.536	.	.	.	.	5232.850	4321.321	9122 <sup>3</sup>		
9122 <sup>3</sup>	4			"	11.639	.	.	.	.	5237.326	4332.428	4		
4	5	128.723		"	26.784	.	.	.	.	5245.326	4357.990	5		
5	9121 <sup>1</sup>			"	90.300	.	.	.	.	5272.296	4446.168	9121 <sup>1</sup>		
9121 <sup>1</sup>	9121 <sup>2</sup>			"	3.597	.	.	.	.	5273.370	4447.601	9121 <sup>2</sup>		
9121 <sup>2</sup>	9121 <sup>3</sup>			164 34 31	3.597	.	.	.	.	5269.903	4448.558	9121 <sup>3</sup>		
9121 <sup>3</sup>	9126 <sup>1</sup>			"	50.460	.	.	.	.	5221.261	4465.980	9126 <sup>1</sup>		
9126 <sup>1</sup>	9126 <sup>2</sup>			"	3.477	.	.	.	.	5217.909	4462.905	9126 <sup>2</sup>		

多角点計算用紙

測量No. \_\_\_\_\_



象 限	I	+	+	+
	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	
	9122 <sup>#</sup>	° 1 "		° 1 "	.			.	.	.	.	5232.794	4317.946	9122 <sup>#</sup>
9122 <sup>#</sup>	3			162 37 20	27.647	298671	954356	.	26.385	8.257	.	5206.409	4326.203	3
"	4			72 37 20	15.175	"	"	4.532	.	14.488	.	5237.326	4332.428	4
4	8			162 37 20	27.647	"	"	.	26.385	8.257	.	5210.941	4340.685	8
8	7			72 37 20	5.744	"	"	1.716	.	5.482	.	5212.457	4346.167	7
7	2			162 37 20	29.854	"	"	.	28.491	8.917	.	5184.166	4355.084	2
2	1			72 37 20	21.040	"	"	6.284	.	20.080	.	5190.450	4375.164	1
1	6			342 37 20	29.854	.	"	28.491	.	.	8.917	5218.941	4346.247	6
6	5			"	27.647	"	"	26.385	.	.	8.257	5245.326	4357.990	5
5	9121 <sup>#</sup>			72 37 20	93.897	"	"	28.064	.	89.611	.	5273.370	4247.601	9121 <sup>#</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)	+	-	+	-
71	1	5,167,958	-	↑ 33,093	4,303,291	-	↑ 11,403	90,745		1,101,699	
筆番号	2	5,161,755	-	⑨ 20,687	4,283,472	-	↑ 28,234	49,551			278,695
⑦	19	5,188,645	-	⑨ 33,093	4,275,057	-	⑨ 11,403		326,639		167,351
	16	5,194,848	-	↑ 20,687	4,294,875	-	⑨ 28,234		983,898	514,589	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5,160

y = 於テ 4,270

$$\begin{aligned}
 \Sigma &= \underline{140,296} & \underline{7,310,537} & \underline{1,616,288} & \underline{446,046} \\
 2S &= \underline{1170,241} & & \underline{1,170,742} & \\
 S &= \underline{585,121} & & & \\
 & & & \underline{177,007} & \text{年 月 日}
 \end{aligned}$$

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)	+	-	+	-
71	9125 <sup>ア</sup>	5,172,084	-	↑ 8,557	4,316,475	-	↑ 15,503	187,338		226,547	
筆番号	1	5,167,958	-	⑨ 22,764	4,303,291	-	↑ 21,600	171,893			302,556
⑦	16	5,194,848	-	⑨ 32,072	4,294,875	-	⑨ 8,144		283,802		156,351
	13	5,200,030	-	↑ 18,333	4,311,435	-	⑨ 23,919		957,478	392,968	
	9125 <sup>イ</sup>	5,176,515	-	↑ 27,946	4,318,794	-	⑨ 5,040		83,236	804,677	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5,160

y = 於テ 4,290

$$\begin{aligned}
 \Sigma &= \underline{359,231} & \underline{1,374,576} & \underline{1,424,192} & \underline{458,907} \\
 2S &= \underline{965,285} & & \underline{965,285} & \\
 S &= \underline{482,643} & & & \\
 & & & \underline{146,007} & \text{年 月 日}
 \end{aligned}$$

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)	+	-	+	-
71											
筆番号	17	5,196.307	-	+ 37.858	4,293.148	-	+ 3.614	15,565		737.449	
	18	5,190.435	-	0 24.114	4,280.776	-	+ 21.130	9,198			259.852
804	9	5,218.421	-	0 31.858	4,278.018	-	9 3.614		102,713		64,289
	10	5,222.293	-	+ 24.114	4,284.390	-	0 21.130		682,351	347,000	

控除シタル値

X = 於テ 5,190

y = 於テ 4,270

$$\bar{z} = \frac{24.757}{760.307} \quad \frac{785.066}{760.308} \quad \frac{1,084.449}{760.308} \quad \frac{374.141}{760.308}$$

$$2S = \frac{760.307}{760.308} \quad \frac{760.308}{760.308}$$

$$S = \frac{380.154}{115.007} \quad \text{年 月 日}$$

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)	+	-	+	-
71											
筆番号	15	5,196.900	-	+ 30.578	4,301.431	-	9 , 474		3,271	655,317	
	17	5,196.307	-	0 25.393	4,293.148	-	+ 17.061	73,396			333,867
805	10	5,222.293	-	0 30.578	4,284.390	-	+ , 474	15,307			134,237
	11	5,224.885	-	+ 25.393	4,292.674	-	0 17.061		594,475	301,831	

控除シタル値

X = 於テ 5,190

y = 於テ 4,280

$$\bar{z} = \frac{88.703}{509.043} \quad \frac{597.746}{509.046} \quad \frac{977.148}{509.046} \quad \frac{468.104}{509.046}$$

$$2S = \frac{509.043}{509.046} \quad \frac{509.046}{509.046}$$

$$S = \frac{254.522}{76.997} \quad \text{年 月 日}$$

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)	+	-	+	-
71											
筆番号	2	5,161,755	-	+32,882	4,283,472	-	+10,732	126,155			1,100,426
(18)	3	5,155,763	-	+20,898	4,264,325	-	+27,562	158,840			299,364
	21	5,182,653	-	+32,882	4,255,910	-	+10,732		350,432		194,333
	19	5,188,645	-	+20,898	4,275,057	-	+27,562		1,065,133	523,641	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5,150

y = 於テ 4,250

$$\sum = \frac{284,995}{28} = \frac{1,415,565}{28} = \frac{1,624,267}{28} = \frac{493,697}{28}$$

$$2S = \frac{1,130,570}{28} = \frac{2,130,570}{28}$$

$$S = \frac{565,285}{171,007} \quad \text{年 月 日}$$

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)	+	-	+	-
71											
筆番号	18	5,180,425	-	+34,518	4,280,776	-	+12,112	126,399			1,062,326
(10)	20	5,183,903	-	+21,454	4,259,905	-	+29,630	115,646			212,502
	8	5,211,889	-	+34,518	4,251,146	-	+12,112		386,271		39,558
	9	5,218,421	-	+21,454	4,272,018	-	+29,630		1,138,414	472,374	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 5,180

y = 於テ 4,250

$$\sum = \frac{242,065}{28} = \frac{1,524,685}{28} = \frac{1,534,700}{28} = \frac{252,060}{28}$$

$$2S = \frac{1,282,640}{28} = \frac{1,282,640}{28}$$

$$S = \frac{641,320}{196,007} \quad \text{年 月 日}$$

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)	+	-	+	-
71											
筆番号	3	5,155,763	-	+34,117	4,264,325	-	+14,679	231,385		1,512,236	
④	9124	5,148,536	-	+8,708	4,241,231	-	+28,645	244,514			148,418
	2148	5,162,471	-	+26,005	4,235,680	-	+11,241	252,597			407,757
	4	5,174,541	-	+20,182	4,229,990	-	+20,230		698,764		201,618
	21	5,182,653	-	+18,778	4,255,910	-	+34,335		1,464,491	674,318	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5,140

y = 於テ 4,280

$$\bar{x} = \frac{728,496}{28} = 25,996$$

$$2S = \frac{1,434,759}{28} = 51,241.75$$

$$S = \frac{717,379}{28} = 25,620.68$$

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)	+	-	+	-
71											
筆番号	20	5,183,903	-	+30,410	4,259,905	-	+1,012		3,950	605,311	
④	22	5,181,479	-	+25,562	4,252,158	-	+16,506	24,412			310,783
	7	5,209,465	-	+30,410	4,243,399	-	+1,012	29,819			103,364
	8	5,211,889	-	+25,562	4,251,146	-	+16,506		526,360	284,914	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5,180

y = 於テ 4,240

$$\bar{x} = \frac{54,237}{28} = 1,937$$

$$2S = \frac{476,079}{28} = 16,999.25$$

$$S = \frac{238,039}{28} = 8,501.39$$

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)	+	-	+	-
71											
筆番号	0150	5176.301	-	+ 8.187	4211.595	-	⊕ 21.682	353.438	,	340.538	,
⑩ <sub>10</sub>	0151	5171.269	-	+ 9.738	4195.434	-	+ 32.482	369.288	,	248.948	,
	0152	5166.513	-	+ 3.807	4179.113	-	+ 16.581	107.992	,	34.693	,
	095	5167.562	-	⊖ 22.511	4178.853	-	+ 1.029	7.781	,	,	199.290
	9123 <sup>#</sup>	5189.024	-	⊖ 31.743	4178.084	-	⊖ 32.083	,	931.179	,	256.610
	6	5199.305	-	+ 9.468	4210.936	-	⊖ 39.032	,	1534.153	387.582	,
	5	5179.556	-	+ 23.004	4217.116	-	⊖ .659	,	12.887	1083.856	,

控除シタル値

X=於テ 5160

y=於テ 4170

$$\bar{z} = \frac{838.499}{25} = 33.53996$$

$$2S = \frac{1639.718}{25} = 65.58872$$

$$S = \frac{1639.717}{25} = 65.58868$$

$$S = 819.859$$

$$248.01^{29}$$

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)	+	-	+	-
71											
筆番号	22	5181.479	-	+ 36.924	4252.158	-	+ 13.409	153.982	,	1472.326	,
⑩ <sub>2</sub>	4	5174.541	-	⊖ 2.927	4229.990	-	+ 26.821	141.794	,	,	58.511
	049	5184.406	-	⊖ 5.015	4225.337	-	+ 12.876	185.463	,	,	76.915
	5	5179.556	-	⊖ 14.899	4217.116	-	+ 14.401	137.416	,	,	106.021
	6	5199.305	-	⊖ 29.909	4210.936	-	⊖ 26.283	,	770.223	,	27.995
	7	5209.465	-	+ 17.826	4243.399	-	⊖ 41.228	,	1626.226	595.371	,

控除シタル値

X=於テ 5170

y=於テ 4210

$$\bar{z} = \frac{192.795}{25} = 7.7118$$

$$2S = \frac{1792.254}{25} = 71.69016$$

$$S = \frac{1792.255}{25} = 71.6902$$

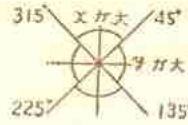
$$S = 899.128$$

$$272.00^{29}$$

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

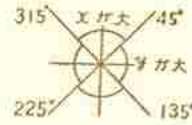


象	I	+	/	+	/
限	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角	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	
	9125 <sup>Ⅱ</sup>	"		"								5173.140	4319.850	9125 <sup>Ⅱ</sup>
9125 <sup>Ⅱ</sup>	9125 <sup>Ⅲ</sup>			252 37 20	3.536							5172.084	4316.475	9125 <sup>Ⅲ</sup>
9125 <sup>Ⅲ</sup>	1			"	13.815							5167.958	4303.291	1
1	2	78.843		"	20.767							5161.755	4293.472	2
2	3			"	20.063							5155.763	4284.325	3
3	9124 <sup>Ⅱ</sup>			"	24.198							5148.536	4274.231	9124 <sup>Ⅱ</sup>
9124 <sup>Ⅱ</sup>	a148			338 16 45	15.000							5142.471	4265.680	a148
a148	4	24.251		334 45 43	13.344							5176.541	4229.990	4
4	a149			"	10.907							5186.406	4225.337	a149
a149	5	15.954		239 28 04	9.544							5179.556	4217.116	5
5	a150			"	6.410							5176.301	4211.595	a150
a150	a151			253 01 44	16.897							5171.369	4195.434	a151
a151	a152			253 25 50	17.028							5166.513	4179.113	a152
a152	a95			346 06 46	1.081							5167.562	4178.853	a95
a95	9123 <sup>Ⅲ</sup>			357 56 57	21.476							5189.024	4178.084	9123 <sup>Ⅲ</sup>
9123 <sup>Ⅲ</sup>	6			72 37 20	34.423							5199.305	4210.936	6
6	7			"	34.016							5209.465	4243.399	7
7	8			"	8.117							5216.889	4251.146	8
8	9	127.015		"	21.870							5218.421	4278.018	9
9	10			"	12.964							5222.293	4286.390	10
10	11			"	8.680							5224.885	4292.674	11
11	9122 <sup>Ⅲ</sup>			"	6.945							5226.960	4298.301	9122 <sup>Ⅲ</sup>
9122 <sup>Ⅲ</sup>	9122 <sup>Ⅲ</sup>			"	3.536							5228.016	4302.676	9122 <sup>Ⅲ</sup>

多角点計算用紙

測量No. \_\_\_\_\_

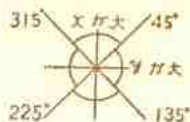


象	I	+	/	+	/
限	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

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	
9122 <sup>号</sup>	9122 <sup>号</sup>	° 1 "		° 1 "	3.536			.	.	.	.	5224.641	4303.732	9122 <sup>号</sup>
9122 <sup>号</sup>	12			"	17.903			.	.	.	.	5207.556	4309.080	12
12	13	50.429		"	7.886			.	.	.	.	5200.030	4311.435	13
13	9125 <sup>号</sup>			"	24.640			.	.	.	.	5176.515	4318.794	9125 <sup>号</sup>
9125 <sup>号</sup>	9125 <sup>号</sup>			"	3.536			.	.	.	.	5173.160	4319.850	9125 <sup>号</sup>
					.			.	.	.	.	.	.	.
	16				.			.	.	.	.	5199.808	4294.875	16
16	16'			162° 37' 20"	2.980	298671	954056	.	102° 31' 19"	9.0125	.	5181.029	4299.200	16'
16	13'			72° 37' 20"	17.051	"	"	5.182	102° 31' 19"	16.559	.	5186.211	4316.759	13'

多角点計算用紙

測量No.

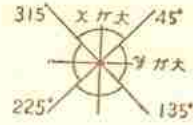


象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	+

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	
	9125 <sup>I</sup>	" "		" "	.			.	.	.	.	5173.140	4319.850	9125 <sup>I</sup>
9125 <sup>X</sup>	13			342 37 20	28.176	298671	954356	26.890	.	.	8.415	5200.030	4311.435	13
	9123 <sup>II</sup>				.			.	.	.	.	5189.024	4178.084	9123 <sup>II</sup>
9123 <sup>II</sup>	6			72 37 20	34.423	298671	954356	10.381	.	32.852	.	5199.305	4210.936	6
6	7			"	34.016	"	"	10.160	.	32.463	.	5209.665	4243.399	7
7	22			162 37 20	29.325	"	"	27.986	8.759	.	5181.479	4252.158	22	
22	21			72 37 20	3.931	"	"	1.174	.	3.752	.	5182.153	4255.910	21
21	3			162 37 20	28.176	"	"	26.890	8.415	.	5155.763	4264.325	3	
"	20			72 37 20	4.186	"	"	1.250	.	3.995	.	5183.903	4259.905	20
20	19			"	15.877	"	"	4.742	.	15.152	.	5188.645	4275.057	19
19	18			"	5.993	"	"	1.790	.	5.719	.	5190.435	4280.776	18
18	17			"	12.964	"	"	3.878	.	12.372	.	5194.307	4293.148	17
17	16			"	1.810	"	"	5.41	.	1.727	.	5194.848	4296.875	16
16	15			"	6.870	"	"	2.058	.	6.556	.	5196.900	4301.431	15
15	13			"	10.481	"	"	3.130	.	10.003	.	5200.030	4311.435	13
13	12			342 37 20	7.886	"	"	7.526	.	.	2.355	5207.556	4309.080	12
12	14			252 37 20	10.481	"	"	.	3.130	.	10.003	5206.426	4299.077	14

多角点計算用紙

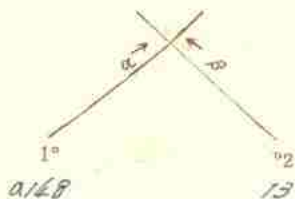
測量No.



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	
	7	"		"	.			.	.	.	.	5209.465	4243.399	7
7	8			72 37 20	8.117	298671	954356	2.424	.	7.747	.	5211.889	4251.546	8
8	9			"	21.870	"	"	6.532	.	20.872	.	5218.421	4272.018	9
9	10			"	12.964	"	"	3.872	.	12.372	.	5222.293	4286.390	10
10	11			"	8.680	"	"	2.592	.	8.284	.	5226.885	4292.574	11
11	9122			"	10.481	"	"	3.130	.	10.003	.	5228.016	4302.676	9122
	3				.			.	.	.	.	.	.	
3	2			72 37 20	20.063	298671	954356	5.992	.	19.147	.	5155.763	4264.325	3
2	1			"	20.767	"	"	6.203	.	19.819	.	5161.755	4283.472	2
1	9125			"	17.351	"	"	5.182	.	16.559	.	5173.140	4319.850	9125

算出點 4



$$\begin{aligned} 13 X_2 &= - 51210101030 \\ 48 X_1 &= - 42135106810 \\ \Delta X &= - 117171559 \end{aligned}$$

$$\begin{aligned} \alpha &= 1336' - 45' - 43'' \\ \beta &= 252^\circ - 57' - 20'' \\ \beta - \alpha &= 197^\circ - 51' - 37'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 9122062582 \\ \Delta X \times \textcircled{4} &= 9135108666 \\ E &= 113131884 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 113131884$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 111210678 \\ X_1 &= - 516101477 (+) \\ X &= - 517141561 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 111106190 \\ Y_1 &= - 42135106810 (+) \\ Y &= - 42135106810 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 42135106810 \\ Y_1 &= - 42135106810 \\ \Delta Y &= + 1751755 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0.10414141 \textcircled{1} \\ \text{Sin} \alpha &= 0.142631810 \textcircled{2} \\ \text{Cos} \beta &= 0.1219861711 \textcircled{3} \\ \text{sin} \beta &= 0.191542161 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= - 0.1991061051 \textcircled{5} \end{aligned}$$

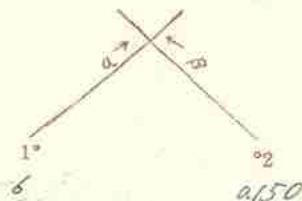
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 1168052373 \\ \Delta X \times \textcircled{2} &= 9116101461 \\ F &= 1184053814 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 18513399$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9112514819 \\ X_2 &= - 51210101030 (+) \\ X &= - 517141561 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 91181104915 \\ Y_2 &= - 42135106810 (+) \\ Y &= - 42135106810 \end{aligned}$$

算出點 5



$$\begin{aligned} a/150 X_2 &= - 51176103101 \\ 6 X_1 &= - 51199103105 \\ \Delta X &= - 517310004 \end{aligned}$$

$$\begin{aligned} \alpha &= 182^\circ - 37' - 20'' \\ \beta &= 159^\circ - 28' - 04'' \\ \beta - \alpha &= 176^\circ - 50' - 44'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + 1111033679 \\ \Delta X \times \textcircled{4} &= 91179081436 \\ E &= 1120114915 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 120114915$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 9117917488 \\ X_1 &= - 51199103105 (+) \\ X &= - 517310004 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 1116111810 \\ Y_1 &= - 42135106810 (+) \\ Y &= - 42135106810 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 42135106810 \\ Y_1 &= - 42135106810 \\ \Delta Y &= + 11110659 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.1914215161 \textcircled{1} \\ \text{Sin} \alpha &= + 0.191816171 \textcircled{2} \\ \text{Cos} \beta &= + 0.1219861711 \textcircled{3} \\ \text{sin} \beta &= + 0.191542161 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= - 0.1991061051 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 01111082892 \\ \Delta X \times \textcircled{2} &= 91179081436 \\ F &= 1116111810 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 116111810$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 111310616 - 1 \\ X_2 &= - 51199103105 (+) \\ X &= - 517310004 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= + 11111061915 \\ Y_2 &= - 42135106810 (+) \\ Y &= - 42135106810 \end{aligned}$$

72





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)	+	-	+	-
72	7	5155.542	-	+ 18.813	4325.357	-	+ 20.203	1683.089		2358.341	
筆番号	14	5145.226	-	⊖ 1.556	4292.395	-	+ 36.677	1658.754			143.767
763	6	5157.098	-	⊖ 21.132	4288.680	-	⊖ 25.872		1477.239		1873.986
	9125	5166.358	-	⊖ 6.941	4318.267	-	⊖ 34.018		2257.366		820.891
	9125	5164.039	-	+ 10.816	4322.698	-	⊖ 7.090		454.037	1327.102	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値  
 $X =$  於テ 5100  
 $y =$  於テ 4200

$\Sigma = 3341$  842 4188 642 3685 443 2838 644  
 $2S = 846.799$  846.799  
 $S = 423.400$   
 128.08 574 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)	+	-	+	-
72	8	5139.098	-	+ 26.760	4330.504	-	+ 27.816	1087.550		3492.287	
筆番号	9	5128.782	-	⊖ 6.128	4297.541	-	+ 38.109	1096.853			597.931
7610	14	5145.226	-	⊖ 26.760	4292.395	-	⊖ 27.816		1258.006		2472.490
	7	5155.542	-	+ 6.128	4325.357	-	⊖ 38.109		2116.650	768.188	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値  
 $X =$  於テ 5100  
 $y =$  於テ 4200

$\Sigma = 2194$  403 3374 156 4260 475 3070 227  
 $2S = 1190.223$  1190.254  
 $S = 595.127$   
 180.03 574 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)	+	-	+	-
72											
筆番号	9	5,128,782	-	+ 33,091	4,297,541	-	+ 6,399	184,176		1573,179	
⑤	11	5,124,007	-	⊖ 23,540	4,282,281	-	+ 24,121	579,073			759,825
	5	5,152,322	-	⊖ 33,091	4,273,420	-	⊖ 6,399		334,808		774,991
	6	5,157,098	-	+ 23,540	4,288,680	-	⊖ 24,121		1377,261	910,527	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シクル値

X=於テ 5,100.-

y=於テ 4,250.-

$\bar{x} = \frac{763,249}{25} = 30,529.96$      $\bar{y} = \frac{1712,069}{25} = 68,482.76$      $\bar{z} = \frac{2483,706}{25} = 99,348.24$      $\bar{w} = \frac{1534,886}{25} = 61,395.44$

$2S = \frac{948,820}{25} = 37,952.80$      $\frac{948,820}{25} = 37,952.80$

S = 474,610

14351#

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)	+	-	+	-
72											
筆番号	11	5,124,007	-	+ 34,507	4,282,281	-	+ 10,923	262,228		1113,920	
⑤	13	5,117,815	-	⊖ 22,124	4,262,497	-	+ 28,646	510,328			276,484
	4	5,146,131	-	⊖ 34,507	4,253,635	-	⊖ 10,923		503,889		125,433
	5	5,152,322	-	+ 22,124	4,273,420	-	⊖ 28,646		1498,816	518,164	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シクル値

X=於テ 5,100.-

y=於テ 4,250.-

$\bar{x} = \frac{772,556}{25} = 30,902.24$      $\bar{y} = \frac{2602,705}{25} = 104,108.20$      $\bar{z} = \frac{1632,064}{25} = 65,282.56$      $\bar{w} = \frac{401,917}{25} = 16,076.68$

$2S = \frac{1230,149}{25} = 49,207.96$      $\frac{1230,149}{25} = 49,207.96$

S = 615,074

18608#

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)	+	-	+	-
72											
筆番号	12	5,117.815	-	+ 32.047	4,260.497	-	+ 3.059	56.496	,	2,002.841	,
⑩	3	5,114.084	-	+ 21.080	4,250.576	-	+ 17.425	245.414	,	1,066.142	,
	4/47	5,138.895	-	+ 28.862	4,245.072	-	+ 7.118	276.855	,	1,300.868	,
	9/124	5,142.946	-	+ 7.236	4,243.458	-	+ 8.563	,	367.747	,	314.462
	4	5,146.131	-	+ 25.131	4,253.635	-	+ 19.039	,	878.288	1,347.901	,
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X=於テ 5,100

y=於テ 4,200

$\Sigma = \underline{576.765} \quad \underline{1246.635} \quad \underline{3350.742} \quad \underline{2681.472}$

$2S = \underline{669.270}$

$\underline{669.270}$

S = 334.635

10123<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)	+	-	+	-
72											
筆番号	9/128 <sup>27</sup>	5,106.927	-	+ 13.813	4,336.930	-	+ 34.728	3713.3614	,	1,890.022	,
⑩	1	5,097.520	-	+ 21.040	4,324.465	-	+ 41.894	4,085.503	,	2,192.946	,
	10	5,127.967	-	+ 41.578	4,294.936	-	+ 26.039	,	3,322.123	,	3,947.249
	8	5,139.098	-	+ 18.634	4,300.504	-	+ 44.257	,	6,156.060	2,170.204	,
	9/128 <sup>27</sup>	5,111.333	-	+ 32.171	4,339.193	-	+ 6.326	,	704.293	4,447.998	,
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X=於テ 5,000

y=於テ 4,200

$\Sigma = \underline{2772.864} \quad \underline{10190.486} \quad \underline{8538.815} \quad \underline{6145.192}$

$2S = \underline{2393.622}$

$\underline{2393.622}$

S = 1,196.811

362.03<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)	+	-	+	-
72											
筆番号	1	5,099.520	-	+ 38.155	4,300.465	-	+ 16.990	807.365		0078.112	
⑦ <sub>5</sub>	2	5,089.812	-	+ 22.201	4,277.946	-	+ 35.879	1428.415			620.429
	12	5,119.721	-	+ 38.155	4,268.586	-	+ 16.990		1184.560		709.149
	10	5,127.967	-	+ 22.201	4,294.926	-	+ 35.879		2797.378	997.624	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シクル値

X = 於テ 5,050  
y = 於テ 4,250

$\Sigma = 2225.780$   $3981.938$   $2075.736$   $1329.578$   
 $2S = 1746.158$   $1746.158$   
 $S = 873.079$   
 26910<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)	+	-	+	-
72											
筆番号	2	5,089.812	-	+ 25.685	4,277.946	-	+ 10.512	418.504		997.253	
⑦ <sub>5</sub>	9129 <sup>27</sup>	5,084.036	-	+ 1.959	4,258.074	-	+ 22.420	763.087			15.817
	0146	5,091.771	-	+ 30.648	4,255.526	-	+ 7.498	313.199			166.045
	3	5,114.084	-	+ 27.950	4,250.576	-	+ 13.060		836.907		16.099
	12	5,119.721	-	+ 24.272	4,268.586	-	+ 27.370		1908.264	451.119	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

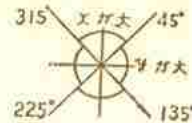
控除シクル値

X = 於テ 5,050  
y = 於テ 4,250

$\Sigma = 1496.790$   $2745.201$   $1448.372$   $197.961$   
 $2S = 1250.611$   $1250.611$   
 $S = 625.306$   
 18912<sup>27</sup> 年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

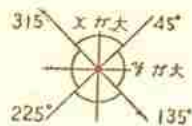


象	I	+	+	+
限	II	-	+	-
	III	-	-	-
	IV	+	-	+

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	
	9128 <sup>#</sup>	" "		" "										
9128 <sup>#</sup>	9128 <sup>#</sup>			253 47 34	3.572							5107.924	4340.260	9128 <sup>#</sup>
9128 <sup>#</sup>	1			"	33.765							5106.927	4336.830	9128 <sup>#</sup>
1	2	82.015		"	27.616							5097.920	4304.465	1
2	9129 <sup>#</sup>			"	20.694							5089.812	4277.946	2
9129 <sup>#</sup>	2146			341 45 59	8.144							5084.036	4258.074	9129 <sup>#</sup>
2146	3	48.270		347 29 31	22.856							5091.771	4255.526	2146
3	2147			"	25.416							5114.084	4250.576	3
2147	9126 <sup>#</sup>			338 16 45	4.361							5138.895	4245.072	2147
9126 <sup>#</sup>	4			72 37 20	10.663							5142.946	4263.458	9126 <sup>#</sup>
4	5	78.387		"	20.730							5146.131	4253.635	4
5	6			"	15.990							5152.322	4273.420	5
6	9125 <sup>#</sup>			"	31.004							5157.098	4288.680	6
9125 <sup>#</sup>	9125 <sup>#</sup>			"	3.526							5166.358	4318.267	9125 <sup>#</sup>
9125 <sup>#</sup>	9125 <sup>#</sup>			162 37 20	3.536							5167.414	4321.642	9125 <sup>#</sup>
9125 <sup>#</sup>	7			"	8.904							5166.039	4322.698	9125 <sup>#</sup>
7	8	55.227		"	17.230							5155.542	4305.357	7
8	9128 <sup>#</sup>			"	29.093							5139.098	4330.504	8
9128 <sup>#</sup>	9128 <sup>#</sup>			"	3.572							5111.333	4339.193	9128 <sup>#</sup>
												5107.924	4340.260	9128 <sup>#</sup>

多角点計算用紙

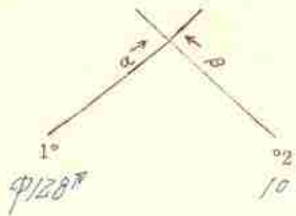
測量No. \_\_\_\_\_



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	
	9125 <sup>F</sup>											5167.414	4321.642	9125 <sup>F</sup>
9125 <sup>F</sup>	8			162 37 20	29.670	298671	954356		28.316	8.862		5139.098	4330.504	8
8	9			252 37 20	34.540	"	"		10.316		32.963	5128.782	4297.541	9
9	14			342 37 20	17.230	"	"	16.444			5.146	5145.226	4292.395	14
14	6			"	12.440	"	"	11.872			3.715	5157.098	4288.680	6
6	5			252 37 20	15.990	"	"		4.776		15.260	5152.322	4273.420	5
5	4			"	20.730	"	"		6.191		19.784	5146.121	4253.635	4
4	9124 <sup>F</sup>			"	10.663	"	"		3.185		10.176	5142.946	4243.458	9124 <sup>F</sup>
	9											5128.782	4297.541	9
9	10	15.990		252 37 20	2.720	298671	954356		1.815		2.605	5127.967	4294.926	10
10	11			"	13.260	"	"		3.960		12.258	5124.007	4282.281	11
11	12	20.730		"	14.250	"	"		4.286		13.695	5119.721	4268.586	12
12	13			"	6.380	"	"		1.968		6.089	5117.815	4262.497	13
	9125 <sup>F</sup>											5167.414	4321.642	9125 <sup>F</sup>
9125 <sup>F</sup>	7			162 37 20	12.440	298671	954356		11.872	3.715		5155.542	4325.357	7

算出点	1
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$$\begin{aligned} 10 \quad X_2 &= -5112171.1967 \\ 9128^\circ \quad X_1 &= -5110171.1926 \quad (-) \\ \Delta X &= -412401.0443 \end{aligned}$$

$$\begin{aligned} \alpha &= 253^\circ - 47' - 34'' \\ \beta &= 162^\circ - 37' - 20'' \\ \beta - \alpha &= 188^\circ - 47' - 14'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +1431.25523 \\ \Delta X \times \textcircled{4} &= +1151.98626 \quad (-) \\ E &= 137.26897 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 1371.12768$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 9 \quad 11101.404 \\ X_1 &= -5110171.1926 \quad (+) \\ X &= -5109171.5120 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9 \quad 1131.7195 \\ Y_1 &= -434401.8166 \quad (+) \\ Y &= -4310181.4165 \end{aligned}$$

$$\begin{aligned} Y_2 &= -421941.1936 \\ Y_1 &= -434401.8166 \quad (-) \\ \Delta Y &= -21415.3244 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.1217911121 \quad \textcircled{1} \\ \text{Sin} \alpha &= 0.1916102159 \quad \textcircled{2} \\ \text{Cos} \beta &= 0.19154315161 \quad \textcircled{3} \\ \text{sin} \beta &= +0.12198161711 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.1919171911 \quad \textcircled{5} \end{aligned}$$

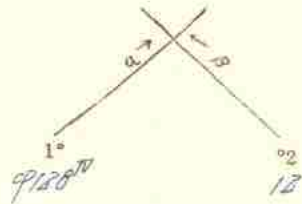
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1121.65047 \\ \Delta X \times \textcircled{2} &= 0119.24647 \quad (-) \\ F &= 1171.89694 \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{6}} = 1311.19036$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9 \quad 1131.447 \\ X_2 &= -5112171.19167 \quad (+) \\ X &= -5109171.5120 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= + \quad 1119.0129 \\ Y_2 &= -421941.1936 \quad (+) \\ Y &= -4210181.4165 \end{aligned}$$

算出点	2
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$$\begin{aligned} 12 \quad X_2 &= -511119.1721 \\ 9128^\circ \quad X_1 &= -5110171.1926 \quad (-) \\ \Delta X &= -111171.1797 \end{aligned}$$

$$\begin{aligned} \alpha &= 253^\circ - 47' - 34'' \\ \beta &= 162^\circ - 37' - 20'' \\ \beta - \alpha &= 188^\circ - 47' - 46'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +168.40251 \\ \Delta X \times \textcircled{4} &= +1131.52342 \quad (-) \\ E &= 166.87909 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 166.87909$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 9 \quad 1178.112 \\ X_1 &= -5110171.1926 \quad (+) \\ X &= -51089.812 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9 \quad 162.914 \\ Y_1 &= -434401.8166 \quad (+) \\ Y &= -4277.946 \end{aligned}$$

$$\begin{aligned} Y_2 &= -421681.15186 \\ Y_1 &= -434401.8166 \quad (-) \\ \Delta Y &= -21171.6744 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.1217911121 \quad \textcircled{1} \\ \text{Sin} \alpha &= 0.19161021591 \quad \textcircled{2} \\ \text{Cos} \beta &= 0.19154315161 \quad \textcircled{3} \\ \text{sin} \beta &= +0.12198161711 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.1919171911 \quad \textcircled{5} \end{aligned}$$

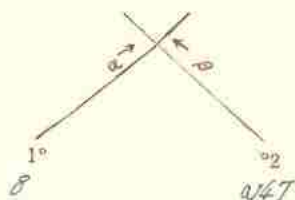
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +162.61507 \\ \Delta X \times \textcircled{2} &= 01171.92218 \quad (-) \\ F &= 1171.33345 \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{6}} = 131.33345$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9 \quad 129.809 \\ X_2 &= -511191.1721 \quad (+) \\ X &= -51089.812 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= + \quad 1119.3610 \\ Y_2 &= -4268.586 \quad (+) \\ Y &= -4277.946 \end{aligned}$$

算出点	3
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$$\begin{aligned} X_2 &= - \text{ } \\ X_1 &= - \text{ } \\ \Delta X &= - \text{ } \end{aligned}$$

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

$$\begin{aligned} \Delta Y \times \text{ } &= + \text{ } \\ \Delta X \times \text{ } &= - \text{ } \\ E &= \text{ } \end{aligned}$$

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

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

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

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

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

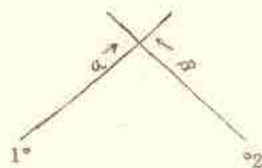
$$\begin{aligned} \Delta Y \times \text{ } &= + \text{ } \\ \Delta X \times \text{ } &= + \text{ } \\ F &= \text{ } \end{aligned}$$

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

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

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

算出点	
-----	--



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

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

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

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

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

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

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

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

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

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

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

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





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)	+	-	+	-
筆番号 787	4	5,152,742	-	8,811	4,342,999	-	+28,241	77,437			114,534
	9125	5,168,817	-	20,506	4,337,968	-	+2,712	51,032			163,392
	9125	5,173,268	-	10,639	4,340,287	-	+22,154		515,026		109,443
	5	5,179,456	-	+13,242	4,360,122	-	+25,922		763,558	398,876	
	11	5,160,006	-	+26,714	4,366,209	-	+17,123	171,333		967,287	

控除シタル値

Xニ於テ 5,150.-

Yニ於テ 4,330.-

$\bar{x} = 299,802$   $\bar{y} = 1,278,594$   $\bar{xy} = 1,366,163$   $\bar{x}^2 = 387,369$

$2s = 978,792$   $2s = 978,794$

$s = 489,396$

14804<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)	+	-	+	-
筆番号 773	3	5,142,492	-	2,986	4,346,207	-	+26,418	85,834			18,534
	4	5,152,742	-	17,514	4,342,999	-	+20,002		254,865		52,524
	11	5,160,006	-	2,986	4,366,209	-	+26,418		528,519	78,260	
	10	5,149,756	-	+17,514	4,369,417	-	+20,002	195,140		515,209	

控除シタル値

Xニ於テ 5,140.-

Yニ於テ 4,340.-

$\bar{x} = 260,974$   $\bar{y} = 783,384$   $\bar{xy} = 593,469$   $\bar{x}^2 = 71,058$

$2s = 522,410$   $2s = 522,411$

$s = 261,205$

7801<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)	+	-	+	-
筆番号 78 <sub>6</sub>	2	5129.131	-	+ 6.097	4350.388	-	+ 27.391	797.927			307.216
	3	5142.492	-	+ 13.361	4366.207	-	+ 19.029		808.589		953.419
	10	5149.756	-	+ 6.097	4369.417	-	+ 27.391		1362.867	423.235	
	8	5136.395	-	+ 7.625	4373.598	-	+ 19.029	692.560		1517.959	

控除シクル値

X=於テ 5100

y=於テ 4300

$$\Sigma = 1490.407 \quad 2171.447 \quad 1941.194 \quad 1260.235$$

$$2S = 680.960$$

$$680.959$$

$$S = 340.480$$

103<sup>69</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 109 <sub>1</sub>	1	5119.179	-	+ 27.028	4378.986	-	+ 14.609	280.186		1818.890	
	9128	5113.367	-	+ 3.449	4358.989	-	+ 24.403	306.195		207.453	
	9128	5115.730	-	+ 15.764	4356.583	-	+ 9.601	135.294			860.446
	2	5129.131	-	+ 7.665	4350.388	-	+ 19.015		553.926		1041.268
	8	5136.395	-	+ 9.950	4373.598	-	+ 28.599		1040.894	732.447	

控除シクル値

X=於テ 5100

y=於テ 4300

$$\Sigma = 741.825 \quad 1594.950 \quad 2854.790 \quad 1801.274$$

$$2S = 853.075$$

$$853.076$$

$$S = 426.539$$

122.03<sup>69</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 ①	1	5119.179	-	⊕ 1.534	4378.986	-	⊕ 108.483	2080.595			121.165
	9	5149.489	-	⊕ 33.392	4369.500	-	⊕ .369		17.964		2320.944
	7	5152.571	-	⊕ 33.089	4379.369	-	⊕ .671		24.761		2622.405
	6	5182.538	-	⊕ 58.476	4369.971	-	⊕ 81.719		6744.923		4091.624
	9126	5211.067	-	⊕ 26.115	4461.068	-	⊕ 95.687		10603.545		4206.291
	9126	5208.653	-	⊕ 26.742	4465.658	-	⊕ 11.108		1206.918	4420.678	
	9158	5184.305	-	⊕ 56.692	4472.176	-	⊕ 14.692		1238.609	9416.650	
	9157	5153.961	-	⊕ 32.046	4480.150	-	⊕ 8.354		450.790	5773.087	
	9127	5152.259	-	⊕ 6.006	4480.530	-	⊕ 2.167		113.265	1094.263	
									Σ = 113.265		

控除シタル値

X = 於テ

y = 於テ

Σ =

Σ =

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	9127	5147.955	-	⊕ 33.080	4477.983	-	⊕ 1101.544	4869.543			5387.670
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5.100

y = 於テ 4.300

Σ = 70.63 393 20.287 510 26.506 356 13362 209

Σ =

13226.127

13226.127

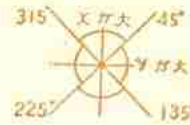
Σ = 6.612.064

2000/5<sup>24</sup>

年 月 日

多角点計算用紙

測量No.



象 限	I	+	-	+
	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		
	φ125 <sup>I</sup>	"		"	.			.	.	.	.	5172.192	4336.912	φ125 <sup>I</sup>	
φ125 <sup>II</sup>	φ125 <sup>I</sup>			72 37 20	3.536			.	.	.	.	5173.248	4340.287	φ125 <sup>II</sup>	
φ125 <sup>III</sup>	5		126.558	.	20.784			.	.	.	.	5179.456	4360.122	5	
5	6			.	10.320			.	.	.	.	.	5182.538	4369.971	6
6	φ126 <sup>I</sup>			.	95.454			.	.	.	.	.	5211.067	4461.068	φ126 <sup>I</sup>
φ126 <sup>II</sup>	φ126 <sup>I</sup>			.	3.597			.	.	.	.	.	5212.121	4464.501	φ126 <sup>II</sup>
φ126 <sup>III</sup>	φ126 <sup>II</sup>			164 34 31	3.597			.	.	.	.	5208.653	4465.458	φ126 <sup>III</sup>	
φ126 <sup>IV</sup>	φ158 <sup>I</sup>			.	25.258			.	.	.	.	5184.305	4472.176	φ158 <sup>I</sup>	
φ158 <sup>II</sup>	φ157 <sup>I</sup>			165 16 33	31.374			.	.	.	.	5153.961	4480.150	φ157 <sup>I</sup>	
φ157 <sup>II</sup>	φ127 <sup>I</sup>			167 25 31	1.744			.	.	.	.	5152.259	4480.530	φ127 <sup>I</sup>	
φ127 <sup>II</sup>	φ127 <sup>I</sup>			.	3.429			.	.	.	.	5148.912	4481.276	φ127 <sup>II</sup>	
φ127 <sup>III</sup>	φ127 <sup>II</sup>			253 47 34	3.429			.	.	.	.	5147.955	4477.983	φ127 <sup>III</sup>	
φ127 <sup>IV</sup>	1		123.919	.	103.094			.	.	.	.	5119.179	4378.986	1	
1	φ128 <sup>I</sup>			.	20.825			.	.	.	.	.	5113.367	4358.989	φ128 <sup>I</sup>
φ128 <sup>II</sup>	φ128 <sup>I</sup>			.	3.500			.	.	.	.	5112.390	4355.628	φ128 <sup>II</sup>	
φ128 <sup>III</sup>	φ128 <sup>II</sup>			342 37 20	3.500			.	.	.	.	5115.730	4354.583	φ128 <sup>III</sup>	
φ128 <sup>IV</sup>	2		55.626	.	14.042			.	.	.	.	5129.131	4350.388	2	
2	3			.	14.000			.	.	.	.	.	5142.492	4346.207	3
3	4			.	10.740			.	.	.	.	.	5152.742	4342.999	4
4	φ125 <sup>I</sup>			.	16.844			.	.	.	.	.	5168.817	4337.968	φ125 <sup>I</sup>
φ125 <sup>II</sup>	φ125 <sup>I</sup>			.	3.536			.	.	.	.	5172.192	4336.912	φ125 <sup>II</sup>	

協和建設測量

多角点計算用紙

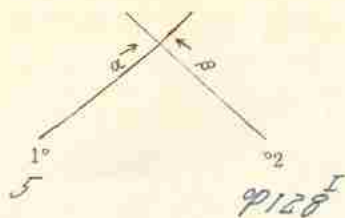
測量No. \_\_\_\_\_



象	I	+	+	+
限	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	
	9125 <sup>E</sup>											5172192	4336912	9125 <sup>II</sup>
9125 <sup>II</sup>	5			72 37 20	26.320	298671	954356	7.266		23.210		5179456	4368122	5
5	11			162 37 20	20.380				19.450	6.087		5160085	4366209	11
11	4			252 37 20	26.320				7.266		23.210	5152742	4342999	4
4	3			162 37 20	10.760				10.250	3.208		5142492	4346207	3
3	10			72 37 20	26.320			7.266		23.210		5149756	4369417	10
10	8			162 37 20	14.000				13.361	4.181		5136395	4373598	8
8	2			252 37 20	26.320				7.266		23.210	5129131	4350388	2
	5											5179456	4368122	5
5	6			72 37 20	10.320	298671	954356	3.082		9.849		5182538	4368971	6
6	7			162 37 20	31.400				29.967	9.378		5152591	4379369	7
7	9			252 37 20	10.320				3.082		9.849	5149489	4368500	9

算出点 /



$$\begin{aligned} X_2 &= -511121.13190 \\ X_1 &= -511719.1656 \\ \Delta X &= -0116171.0186 \end{aligned}$$

$$\begin{aligned} \alpha &= 182^\circ - 37' - 20'' \\ \beta &= 173^\circ - 47' - 13'' \\ \beta - \alpha &= 191^\circ - 10' - 14'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 01111.25233 \\ \Delta X \times \textcircled{4} &= 01616.40073 \\ E &= 1839.74640 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 1619.17596$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 011610.2177 \\ X_1 &= -511719.1656 \\ X &= -511719.1656 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 711118.18164 \\ Y_1 &= -43781.1986 \\ Y &= -43781.1986 \end{aligned}$$

$$\begin{aligned} Y_2 &= -43781.1986 \\ Y_1 &= -43781.1986 \\ \Delta Y &= -0116171.0186 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= 0.195149516 \textcircled{1} \\ \sin \alpha &= 7.21986171 \textcircled{2} \\ \cos \beta &= 7.217911121 \textcircled{3} \\ \sin \beta &= 4.196162519 \textcircled{4} \\ \sin(\beta - \alpha) &= -0.19997911 \textcircled{5} \end{aligned}$$

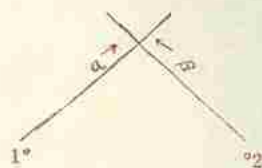
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 71116.28888 \\ \Delta X \times \textcircled{2} &= 0120.063067 \\ F &= 122.37955 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 122.37955$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 71116.2889 \\ X_2 &= -511121.13190 \\ X &= -511121.13190 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 711231.3168 \\ Y_2 &= -43781.1986 \\ Y &= -43781.1986 \end{aligned}$$

算出点 /



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

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

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

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

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

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

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

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

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

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

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

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





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 1071	2	5061.197	-	⊖ 34.589	4371.649	-	+	38.853	46.507		748.817	
	9128 <sup>11</sup>	5103.253	-	⊖ 46.462	4358.487	-	+	10.799	467.089		394.323	
	9128 <sup>12</sup>	5107.659	-	⊖ 11.148	4360.850	-	⊖	25.558		1218.069	120.956	
	3	5114.401	-	+	38.995	4384.045	-	⊖	36.490		1985.092	1327.585
	5	5068.664	-	+	53.204	4397.340	-	+	18.396	107.399		2518.677
		-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	

控除シタル値

Xニ於テ 5060

Yニ於テ 4350

$$\bar{X} = 620.995 \quad 3203.161 \quad 3.846.266 \quad 1.264.096$$

$$2S = 2582.166 \quad 2582.166$$

$$S = 1291.083$$

390.55年 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)	+	-	+	-	
筆番号 9	1	5052.429	-	+	15.829	4398.771	-	+	16.617	871.213	1563.446	
	9131 <sup>11</sup>	5051.954	-	⊖	2.461	4377.691	-	+	25.143	1306.279	189.646	
	9131 <sup>12</sup>	5054.870	-	⊖	9.243	4373.628	-	+	6.042	331.525	680.546	
	2	5061.197	-	⊖	12.913	4371.649	-	⊖	20.680		1265.554	925.204
	4	5067.783	-	+	8.768	4394.308	-	⊖	27.122		1838.411	826.893
		-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	

控除シタル値

Xニ於テ 5000

Yニ於テ 4300

$$\bar{X} = 2509.017 \quad 3.103.965 \quad 2.390.339 \quad 1.795.392$$

$$2S = 594.968 \quad 594.968$$

$$S = 297.476$$

90年 印 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	$(1) \times (6)$		$(3) \times (4)$	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号	5	5068'664	-	46'618	4397'340	-	10'263	704'699			4537'796
⑧	3	5114'401	-	73'315	4384'045	-	81'581		9338'948		6161'759
	⑨ <sup>12</sup>	5141'979	-	24'897	4678'921	-	99'096		14069'551		4454'596
	⑩ <sup>12</sup>	5139'298	-	9'650	4683'161	-	5'315		740'369	1767'311	
	⑪ <sup>12</sup>	5138'339	-	33'551	4684'236	-	2'482		328'441	6181'302	
	⑫ <sup>12</sup>	5105'747	-	41'430	4685'623	-	0'255		26'965	7690'361	
	⑬ <sup>12</sup>	5090'899	-	41'240	4686'491	-	5'008	455'222		7608'409	
	⑭ <sup>12</sup>	5064'507	-	33'774	4680'615	-	6'228	401'750		6101'091	
	⑮ <sup>12</sup>	5057'125	-	10'378	4678'263	-	6'355	363'029		1850'013	

控除シタル値

Xニ於テ 5,000

Yニ於テ 4,300

$\Sigma =$

S=

印  
年 月 日

面積計算用紙

街廓番号	NO	$X_n$	$X_n - X_{n+1}$	$\Delta X + \Delta X_{n+1}$	$Y_n$	$Y_n - Y_{n+1}$	$\Delta y_n + \Delta y_{n+1}$	$(1) \times (6)$		$(3) \times (4)$	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号	⑮ <sup>12</sup>	5056'129	-	4'696	4676'260	-	79'498	4302'822		818'325	
	1	5052'429	-	13'654	4398'771	-	179'952	4191'803			1348'619
	4	5067'723	-	18'235	4394'208	-	1'421	96'997			1531'090
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

Xニ於テ

Yニ於テ

$\Sigma = 10516.322$   $26499.274$   $32,015$   $812$   $18,033$   $960$

$\Sigma S =$

13,281.952

13,281.952

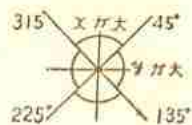
S= 6990.976

2,114.770

印  
年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

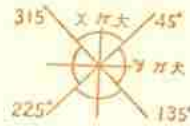


象	I	+	↗	+	↖
限	II	+	↘	+	↙
	III	-	↘	-	↙
	IV	+	↗	-	↖

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	
	φ132 <sup>N</sup>	"		"								5054.198	4477.331	φ132 <sup>N</sup>
φ132 <sup>N</sup>	φ132 <sup>N2</sup>			268	42.35	3.072						5054.129	4474.260	φ132 <sup>N2</sup>
φ132 <sup>N2</sup>	1	96.593		"		75.508						5052.429	4398.771	1
1	φ131 <sup>I</sup>			"		21.085						5051.954	4377.691	φ131 <sup>I</sup>
φ131 <sup>I</sup>	φ131 <sup>I</sup>			"		3.129						5051.884	4374.563	φ131 <sup>I</sup>
φ131 <sup>I</sup>	φ131 <sup>I2</sup>			362	37.20	3.129						5054.870	4373.628	φ131 <sup>I2</sup>
φ131 <sup>I2</sup>	2	50.697		"		6.629						5061.197	4371.649	2
2	φ128 <sup>II</sup>			"		46.068						5103.253	4358.487	φ128 <sup>II</sup>
φ128 <sup>II</sup>	φ128 <sup>II</sup>			"		3.572						5106.662	4357.420	φ128 <sup>II</sup>
φ128 <sup>II</sup>	φ128 <sup>II2</sup>			73	47.34	3.572						5107.659	4360.850	φ128 <sup>II2</sup>
φ128 <sup>II2</sup>	3	122.958		"		24.155						5114.401	4384.045	3
3	φ127 <sup>III</sup>			"		198.803						5141.979	4478.921	φ127 <sup>III</sup>
φ127 <sup>III</sup>	φ127 <sup>III</sup>			"		3.783						5143.035	4482.554	φ127 <sup>III</sup>
φ127 <sup>III</sup>	φ127 <sup>III2</sup>			171	04.00	3.783						5139.298	4483.141	φ127 <sup>III2</sup>
φ127 <sup>III2</sup>	φ153 <sup>N</sup>			"		7.054						5132.329	4484.236	φ153 <sup>N</sup>
φ153 <sup>N</sup>	φ152 <sup>N</sup>			177	00.48	26.618						5105.747	4485.623	φ152 <sup>N</sup>
φ152 <sup>N</sup>	φ151 <sup>N</sup>			184	21.40	14.891						5090.899	4484.491	φ151 <sup>N</sup>
φ151 <sup>N</sup>	φ150 <sup>N</sup>			188	21.18	26.675						5064.507	4480.615	φ150 <sup>N</sup>
φ150 <sup>N</sup>	φ132 <sup>N</sup>			197	39.57	7.748						5057.125	4478.243	φ132 <sup>N</sup>
φ132 <sup>N</sup>	φ132 <sup>N</sup>			"		3.072						5054.198	4477.331	φ132 <sup>N</sup>

多角点計算用紙

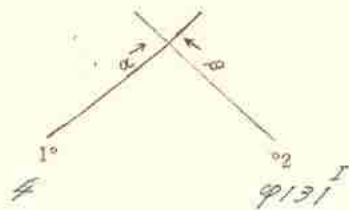
測量No.



象	+	+	+
限	+	-	-

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	
	9128 <sup>II</sup>	"		"										
9128 <sup>II</sup>	3			73 47 34	27.727	279112	960259	7.739		86.625		5106.662	4357.420	9128 <sup>II</sup>
3	5			163 47 36	47.630	"	"	45.737	13.294		5114.401	4384.045	3	
5	4			253 47 34	3.157	"	"	.881		3.038	5068.664	4397.340	5	
											5067.783	4394.308	4	

算出点	1
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$$\begin{aligned} 9131^{\circ} X_2 &= -50511.0886 \\ 4 X_1 &= -50617.1783 \\ \Delta X &= -91128.2669 \end{aligned}$$

$$\begin{aligned} \alpha &= 163^{\circ} - 47' - 36'' \\ \beta &= 188^{\circ} - 42' - 35'' \\ \beta - \alpha &= 25^{\circ} - 55' - 6'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0.1111.4666 \\ \Delta X \times \textcircled{4} &= 0.1125.8888 \\ E &= 1.125.4555 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 1.125.4555$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 0.1125.4555 \\ X_1 &= -50617.1783 \\ X &= -50511.0886 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 7.1125.4555 \\ Y_1 &= -43941.1771 \\ Y &= -43941.1771 \end{aligned}$$

$$\begin{aligned} Y_2 &= -43714.1563 \\ Y_1 &= -43941.1771 \\ \Delta Y &= 227.0208 \end{aligned}$$

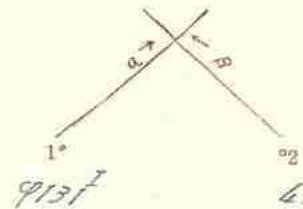
$$\begin{aligned} \text{Cos} \alpha &= 0.191602519 \textcircled{1} \\ \text{Sin} \alpha &= 7.2791112 \textcircled{2} \\ \text{Cos} \beta &= 7.102251181 \textcircled{3} \\ \text{sin} \beta &= 7.899176161 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.191602519 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 1.125.4555 \\ \Delta X \times \textcircled{2} &= 2.1125.8888 \\ F &= 1.125.4555 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 7.1111.565 \\ X_2 &= -50511.0886 \\ X &= -50511.0886 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 7.1125.4555 \\ Y_2 &= -43714.1563 \\ Y &= -43941.1771 \end{aligned}$$

算出点	2
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$$\begin{aligned} 4 X_2 &= -50617.1783 \\ 9131^{\circ} X_1 &= -50511.0886 \\ \Delta X &= -91128.2669 \end{aligned}$$

$$\begin{aligned} \alpha &= 362^{\circ} - 37' - 20'' \\ \beta &= 253^{\circ} - 47' - 36'' \\ \beta - \alpha &= 191^{\circ} - 10' - 16'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0.1125.8888 \\ \Delta X \times \textcircled{4} &= 0.1125.8888 \\ E &= 1.125.4555 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 1.125.4555$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 7.1125.4555 \\ X_1 &= -50617.1783 \\ X &= -50617.1783 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0.1125.8888 \\ Y_1 &= -43714.1563 \\ Y &= -43714.1563 \end{aligned}$$

$$\begin{aligned} Y_2 &= -43941.1771 \\ Y_1 &= -43714.1563 \\ \Delta Y &= 227.0208 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 7.191602519 \textcircled{1} \\ \text{Sin} \alpha &= 0.2791112 \textcircled{2} \\ \text{Cos} \beta &= 0.102251181 \textcircled{3} \\ \text{sin} \beta &= 2.899176161 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.191602519 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 7.1125.8888 \\ \Delta X \times \textcircled{2} &= 0.1125.8888 \\ F &= 1.125.4555 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 1.125.4555$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0.1111.565 \\ X_2 &= -50617.1783 \\ X &= -50617.1783 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.1125.8888 \\ Y_2 &= -43941.1771 \\ Y &= -43941.1771 \end{aligned}$$





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)	+	-	+	-
75											
筆番号	9131 <sup>ア</sup>	5042.109	-	+ 8.154 4355.899	-	-	+ 14.214	86.833	,	211.180	,
(40)	1	5042.386	-	+ 11.250 4344.004	-	-	+ 16.518	39.412	,	,	154.744
	7	5057.159	-	+ 19.552 4339.381	-	-	+ 10.647	,	182.692	,	183.417
	6	5061.938	-	+ 6.619 4354.651	-	-	+ 18.837	,	413.246	163.165	,
	9131 <sup>イ</sup>	5050.540	-	+ 15.829 4358.218	-	-	+ 1.248	,	15.154	446.663	,
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					

控除シタル値

X = 於テ 5.140

y = 於テ 4.330

$$\bar{z} = \frac{126.245609.092}{25} = \frac{221.008}{482.847} \quad \frac{338.161}{482.847}$$

$$S = 241.423$$

73.03

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)	+	-	+	-
75											
筆番号	6	5061.938	-	+ 23.904 4354.651	-	-	+ 9.285	110.844	,	589.250	,
(77)	7	5057.159	-	+ 14.347 4339.381	-	-	+ 21.256	152.172	,	,	134.589
	9	5076.285	-	+ 23.904 4333.395	-	-	+ 9.285	,	244.056	,	81.154
	5	5081.063	-	+ 14.347 4348.666	-	-	+ 21.256	,	660.275	267.801	,
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					
			-		-	-					

控除シタル値

X = 於テ 5.050. -

y = 於テ 4.330. -

$$\bar{z} = \frac{263.016904.331}{25} = \frac{857.059}{641.315} \quad \frac{215.743}{641.316}$$

$$S = 320.650$$

97.00

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)	+	-	+	-
75											
筆番号 784	1	5042.386	-	+ 39.047	4344.004	-	+ 23.353	989.840		1718.224	
	2	5032.246	-	18.767	4311.605	-	+ 41.446	1336.468			217.791
	11	5061.153	-	+ 39.047	4302.558	-	+ 23.353		1428.106		99.882
	8	5071.293	-	+ 18.767	4334.958	-	+ 41.446		2954.810	656.057	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X=於テ 5,000

y=於テ 4,300

$\bar{z} = 2,326.308$      $4,382.916$      $2,374.281$      $317.672$

$2S = 2,586.608$      $2,056.608$

S = 1,028.304

311.06<sup>2</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)	+	-	+	-
75											
筆番号 772	2	5032.246	-	+ 42.634	4311.605	-	+ 34.817	1122.709		2,626.468	
	4130 <sup>1</sup>	5018.519	-	+ 10.531	4267.741	-	+ 27.122	687.462		186.830	
	0143	5021.715	-	+ 26.043	4274.483	-	+ 1.461		31.726		637.411
	0144	5044.562	-	+ 28.580	4269.202	-	+ 6.620	295.000			548.793
	3	5050.295	-	+ 16.591	4267.863	-	+ 32.354		1477.640		296.965
	11	5061.153	-	+ 18.049	4302.558	-	+ 42.742		2,674.955	948.619	
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X=於テ 5,000

y=於テ 4,250

$\bar{z} = 2,105.171$      $4,384.321$      $3,761.716$      $1,482.767$

$2S = 2,279.150$      $2,279.142$

S = 1,139.574

344.72<sup>2</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)	+	-	+	-
75											
筆番号	10	5062.796	-	18.494	4307.807	-	+35.598	455.512			329.223
763	4	5089.787	-	38.423	4299.360	-	-30.884		1228.720		359.629
9128 <sup>#</sup>		5101.219	-	9.069	4338.691	-	943.737		2440.165		461.579
9128 <sup>#</sup>		5098.856	-	+20.156	4343.097	-	9.975		487.339	1070.243	
	5	5081.063	-	+22.571	4348.666	-	+9.702	301.393		1224.150	
	9	5076.285	-	+9.770	4333.395	-	+12.708	360.315		103.969	
	8	5071.293	-	+13.489	4334.958	-	+25.588	544.845		606.438	

控除シタル値

X = 於テ 5050

y = 於テ 4290

$$\bar{x} = \frac{1662.045}{28} = 59.35875$$

$$\bar{y} = \frac{2756.286}{28} = 98.442357$$

$$S = \frac{1127120}{28} = 40254.2857$$

367.0027 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)	+	-	+	-
75											
筆番号	10	5062.796	-	+39.492	4307.807	-	+31.497	403.036		2282.914	
766	3	5050.295	-	+1.242	4267.863	-	+43.178	12.738			23.990
0145		5064.139	-	+28.037	4264.629	-	+7.910	111.839			410.153
9129 <sup>#</sup>		5078.332	-	+25.648	4259.953	-	+34.731		983.999		255.275
	4	5089.787	-	+15.536	4299.360	-	+47.854		1903.967	766.857	

控除シタル値

X = 於テ 5050

y = 於テ 4250

$$\bar{x} = \frac{527.613}{28} = 18.843321$$

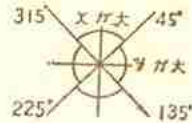
$$\bar{y} = \frac{2887.966}{28} = 103.141643$$

$$S = \frac{1180176}{28} = 42149.1429$$

357.0027 年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



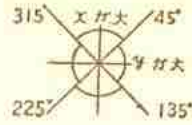
象	I	+	+	+
限	II	-	-	-
	III	-	+	-
	IV	+	-	+

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	
	9131 <sup>IV</sup>	111		111	.			.	.	.	.	5047.165	4359.274	9131 <sup>IV</sup>
9131 <sup>IV</sup>	9131 <sup>IV</sup>			252 37 20	3.536			.	.	.	.	5046.109	4355.899	9131 <sup>IV</sup>
9131 <sup>IV</sup>	1			"	12.464			.	.	.	.	5042.386	4344.004	1
1	2	92.376		"	33.950			.	.	.	.	5032.246	4311.605	2
2	9130 <sup>I</sup>			"	45.962			.	.	.	.	5018.519	4267.741	9130 <sup>I</sup>
9130 <sup>I</sup>	2/43			64 38 20	7.461			.	.	.	.	5021.715	4276.483	2/43
2/43	2/44			346 59 06	23.450			.	.	.	.	5044.562	4269.202	2/44
2/44	3	20.104		346 51 07	5.887			.	.	.	.	5050.295	4267.863	3
3	2/45			"	14.217			.	.	.	.	5064.139	4264.629	2/45
2/45	9129 <sup>II</sup>			341 45 59	14.964			.	.	.	.	5078.332	4259.953	9129 <sup>II</sup>
9129 <sup>II</sup>	4	82.077		73 47 34	41.118			.	.	.	.	5089.787	4299.360	4
4	9128 <sup>III</sup>			"	40.959			.	.	.	.	5101.219	4338.691	9128 <sup>III</sup>
9128 <sup>III</sup>	9128 <sup>III</sup>			"	3.500			.	.	.	.	5102.196	4342.052	9128 <sup>III</sup>
9128 <sup>III</sup>	9128 <sup>III</sup>			162 37 20	3.500			.	.	.	.	5098.856	4343.097	9128 <sup>III</sup>
9128 <sup>III</sup>	5			"	18.643			.	.	.	.	5081.063	4348.666	5
5	6	50.627		"	20.040			.	.	.	.	5061.938	4354.651	6
6	9131 <sup>IV</sup>			"	11.964			.	.	.	.	5050.540	4358.218	9131 <sup>IV</sup>
9131 <sup>IV</sup>	9131 <sup>IV</sup>			"	3.536			.	.	.	.	5047.165	4359.274	9131 <sup>IV</sup>

協和建設測量

多角点計算用紙

測量No. \_\_\_\_\_

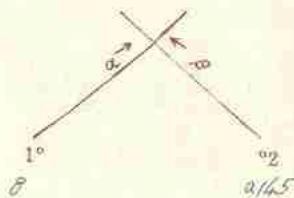


象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	-	/
	IV	+	/	-	-

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	
	9131 <sup>IV</sup>	1''		1''	.			.	.	.	.	5047.165	4359.274	9131 <sup>IV</sup>
9131 <sup>IV</sup>	6			342 37 20	15.480	298471	954356	14.773	/	.	4.623	5061.938	4354.651	6
6	5			"	20.040	"	"	19.185	/	.	5.985	5081.062	4348.666	5
	9131 <sup>IV</sup>				.			.	.	.	.	5047.165	4359.274	9131 <sup>IV</sup>
9131 <sup>IV</sup>	1			252 37 20	16.000	298671	954356	.	4.779	/	15.270	5042.386	4346.004	1
1	7			342 37 20	15.480	"	"	14.773	/	.	4.623	5057.159	4339.381	7
7	8	20.040		"	14.810	"	"	14.134	/	.	4.423	5076.293	4334.958	8
8	9			"	5.230	"	"	4.991	/	.	1.562	5076.285	4333.395	9
"	10	32.250		252 37 20	28.450	"	"	.	8.697	/	27.151	5062.796	4307.807	10
10	11			"	5.500	"	"	.	1.643	/	5.249	5061.153	4302.558	11
11	2			162 37 20	30.290	"	"	.	28.907	9.047	.	5032.246	4311.625	2
2	9130 <sup>I</sup>			252 37 20	45.962			.	13.728	/	43.864	5018.519	4267.761	9130 <sup>I</sup>

路線交叉点座標及距離計算用紙

算出点 3



$$\begin{aligned} 2145 X_2 &= - 5101614.01739 \\ 8 X_1 &= - 5101717.02913 \\ \Delta X &= - 21171.01174 \end{aligned}$$

$$\alpha = 1252^\circ - 57' - 120''$$

$$\beta = 126^\circ - 57' - 107''$$

$$\beta - \alpha = 194^\circ - 12' - 127''$$

$$\begin{aligned} \Delta Y \times ③ &= + 1168.448540 \\ \Delta X \times ④ &= 911.11.62737 \\ E &= 1170.112277 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1710.131042$$

$$\begin{aligned} S_1 \times ① &= 9 \quad 11210.19198 \\ X_1 &= - 5101717.02913 (+) \\ X &= - 5101510.12915 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 9 \quad 11617.01095 \\ Y_1 &= - 4216171.0863 (+) \\ Y &= - 4216171.0863 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 421614.016219 \\ Y_1 &= - 421614.019518 \\ \Delta Y &= - 31710.13189 \end{aligned}$$

$$\cos \alpha = 9 \cdot 121618161711 \quad ①$$

$$\sin \alpha = 9 \cdot 191514131516 \quad ②$$

$$\cos \beta = 2 \cdot 191713121819 \quad ③$$

$$\sin \beta = 7 \cdot 121217141618 \quad ④$$

$$\sin(\beta - \alpha) = - \cdot 191617121716 \quad ⑤$$

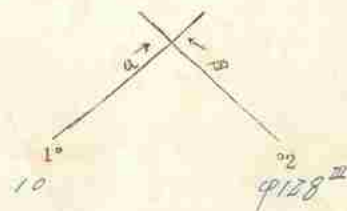
$$\begin{aligned} \Delta Y \times ① &= + 11211.0105223 \\ \Delta X \times ② &= + 1118.182746 \\ F &= 1174.117977 \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1714.121165$$

$$\begin{aligned} S_2 \times ③ &= 9 \quad 11111.0844 \\ X_2 &= - 5101614.01739 (+) \\ X &= - 5101510.12915 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= + \quad 11111.021314 \\ Y_2 &= - 421614.016219 (+) \\ Y &= - 4216171.0863 \end{aligned}$$

算出点 4



$$\begin{aligned} 9128 X_2 &= - 51110121.17196 \\ 10 X_1 &= - 51016121.17196 \\ \Delta X &= - 1119.01010 \end{aligned}$$

$$\alpha = 1342^\circ - 37' - 30''$$

$$\beta = 123^\circ - 47' - 34''$$

$$\beta - \alpha = 121^\circ - 10' - 44''$$

$$\begin{aligned} \Delta Y \times ③ &= 0 \quad 1119.19151919 \\ \Delta X \times ④ &= 0 \quad 11171.1834210 \\ E &= 1128.1276107 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 128.128119$$

$$\begin{aligned} S_1 \times ① &= + \quad 11216.191917 \\ X_1 &= - 51016121.17196 (+) \\ X &= - 5101619.17187 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 9 \quad 11118.14147 \\ Y_1 &= - 4216171.0817 (+) \\ Y &= - 421619.131610 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 4216121.01515 \\ Y_1 &= - 4216171.0817 \\ \Delta Y &= + 1141.06145 \end{aligned}$$

$$\cos \alpha = + \cdot 191514131516 \quad ①$$

$$\sin \alpha = 9 \cdot 121618161711 \quad ②$$

$$\cos \beta = 9 \cdot 121713121819 \quad ③$$

$$\sin \beta = 9 \cdot 191514131516 \quad ④$$

$$\sin(\beta - \alpha) = - \cdot 191617121716 \quad ⑤$$

$$\begin{aligned} \Delta Y \times ① &= + 1119.19151919 \\ \Delta X \times ② &= 9 \quad 11171.1834210 \\ F &= 1141.06145 \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = 141.06145$$

$$\begin{aligned} S_2 \times ③ &= 9 \quad 11111.0844 \\ X_2 &= - 5101614.01739 (+) \\ X &= - 5101619.17187 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 9 \quad 11111.021314 \\ Y_2 &= - 421614.016219 (+) \\ Y &= - 421619.131610 \end{aligned}$$





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 ④	12	5016.089	-	7 25.168	4369.000	-	7 10020	161.212		1736.592	
	13	5010.988	-	⊖ 18.341	4352.700	-	7 25.436	259.712			966.571
	11	5036.630	-	⊖ 27.426	4345.364	-	⊖ 5.809		192.429		1246.875
	④ <sup>12</sup>	5038.474	-	⊖ 1.726	4358.289	-	⊖ 17.356		667.755		100.607
	④ <sup>13</sup>	5036.156	-	7 22.385	4362.720	-	⊖ 10.711		387.267	1403.987	
		-	-			-					
		-	-			-					
		-	-			-					
		-	-			-					
		-	-			-					

控除シタル値

Xニ於テ 5.000

yニ於テ 4.300

$$\bar{z} = \frac{420 \quad 926 \quad 1267 \quad 451 \quad 3140 \quad 579 \quad 2316 \quad 053}{28} = \frac{826.527}{826.526}$$

$$28 = 826.527$$

$$826.526$$

$$S = 413.263$$

125.01<sup>09</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)	+	-	+	-
筆番号 ④	④ <sup>12</sup>	4984.553	-	+ 2.475	4375.164	-	7 15.244	1288.926		637.015	
	1	4980.508	-	⊖ 26.435	4362.239	-	+ 26.464	1808.532			1645.288
	13	5010.988	-	⊖ 25.501	4352.700	-	⊖ 6.761		750.390		1875.119
	12	5016.089	-	+ 22.005	4369.000	-	⊖ 26.783		2877.036	1518.365	
	④ <sup>13</sup>	4988.983	-	+ 21.536	4377.483	-	⊖ 6.164		548.691	2663.506	
		-	-			-					
		-	-			-					
		-	-			-					
		-	-			-					

控除シタル値

Xニ於テ 4.900

yニ於テ 4.300

$$\bar{z} = \frac{3097 \quad 458 \quad 6175 \quad 915 \quad 4598 \quad 866 \quad 3520 \quad 407}{28} = \frac{1078.457}{1078.457}$$

$$28 = 1078.457$$

$$1078.457$$

$$S = 539.228$$

163.11<sup>09</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 ⑪ <sub>3</sub>	1	4980.508	-	7 49 404 4362.239	-	-	7 1.217	97.978			3708.449
	2	4974.866	-	0 48 260 4366.147	-	-	+ 34.967	2617.140			2130.534
	10	5028.768	-	0 49 404 4327.272	-	-	0 1.217		156.711		1626.975
	11	5036.430	-	7 48 260 4365.366	-	-	0 34.967		4700.614	2189.267	

控除シタル値

Xニ於テ 4900

yニ於テ 4300

$\Sigma = 2715.118$  4857.325 5897.716 3755.509

$\Sigma S = 2162.207$

2162.207

$S = 1071.103$

324.0109 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 ⑪ <sub>6</sub>	2	4974.866	-	7 48 276 4366.147	-	-	0 1.686		126.190	2590.369	
	3	4970.092	-	0 49 169 4328.958	-	-	+ 32.064	2207.490			1423.836
	9	5026.015	-	0 48 676 4312.083	-	-	7 1.686	209.089			708.982
	10	5028.768	-	7 49 169 4327.272	-	-	0 32.064		4128.817	1340.937	

控除シタル値

Xニ於テ 4900

yニ於テ 4300

$\Sigma = 2466.519$  4265.007 3931.306 2132.818

$\Sigma S = 1798.488$

1798.488

$S = 899.244$

272.0248 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 70 <sub>2</sub>	14	4996.911	-	7 36.022	4320.565	-	7 13.625	1320.412			4101.862	
	15	4989.993	-	6 20.185	4298.458	-	7 30.589	2752.796				1987.375
	8	5017.096	-	6 36.022	4289.976	-	6 13.625		1593.433			3061.163
	9	5026.015	-	7 20.185	4312.083	-	9 30.589		3793.495	2262.795		

控除シタル値

X=於テ 4.900

y=於テ 4.200

$\Sigma = 4073.208$   $5388.928$   $6364.257$   $5088$   $538$

$2S = 4315.720$

$1315.719$

S = 657.860

年 月 日

199.09.

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 70 <sub>1</sub>	15	4989.993	-	7 35.209	4298.458	-	7 17.419	1567.588			3466.608	
	6	4981.887	-	6 11.178	4272.557	-	7 31.936	2615.143				811.062
	7	5001.171	-	6 20.792	4266.522	-	7 2.453	208.172				1383.125
	0141	5002.679	-	6 8.914	4270.104	-	6 1.051		107.916			626.907
	9130	5010.085	-	6 16.417	4267.573	-	6 19.872		2187.609			972.200
	8	5017.096	-	7 20.072	4289.976	-	6 30.885		3614.510	1807.798		

控除シタル値

X=於テ 4.900

y=於テ 4.200

$\Sigma = 4430.903$   $5912.935$   $5274.006$   $3793.274$

$2S = 1681.172$

$1681.172$

S = 740.566

年 月 日

224.02 79

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 384	3	4,970,098	-	7 40,311	4,328,958	-	7 34,719	24,33,524	/	5,198,426	/
	4	4,956,600	-	9 13,327	4,285,846	-	9 51,505	2,915,183	/		1,144,070
	5	4,983,419	-	6 40,311	4,277,453	-	6 34,719		2,896,226	/	3,122,208
	14	4,996,911	-	7 13,327	4,320,565	-	7 51,505		4,991,401	1,806,770	/

控除シタル値

X=於テ 4,900

y=於テ 4,200

$$\sum = 5,248,707 \quad 7,887,625 \quad 6,805,196 \quad 4,266,278$$

$$2S = 2,538,918$$

$$2538,918$$

$$S = 1,269,459$$

384.617

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)	+	-	+	-
筆番号 1131	4	4,956,600	-	7 31,235	4,285,846	-	7 5,718	323,639	/	2,681,400	/
	9135	4,952,184	-	9 2,710	4,271,735	-	9 14,967	781,038	/		194,402
	0105	4,959,310	-	9 18,338	4,270,879	-	9 4,735	280,833	/		1,299,779
	0104	4,970,522	-	9 24,464	4,267,000	-	9 16,291	1,148,874	/		1,639,088
	0103	4,983,774	-	9 19,999	4,254,588	-	9 25,769	2,158,772	/		1,091,705
	0140	4,990,521	-	9 17,397	4,241,231	-	9 11,934		1,080,278	/	717,294
	7	5,001,171	-	7 8,634	4,266,522	-	7 31,326		3,169,283	574,351	/
	6	4,981,887	-	7 17,752	4,272,557	-	7 10,931		895,107	1,288,032	/
	5	4,983,419	-	7 25,207	4,277,453	-	7 13,289		1,108,555	1,958,554	/

控除シタル値

X=於テ 4,900

y=於テ 4,200

$$\sum = 4,692,156 \quad 6,253,223 \quad 6,502,337 \quad 4,962,370$$

$$2S = 1,560,067$$

$$1,560,067$$

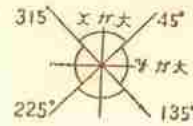
$$S = 780,034$$

235.967

印  
年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



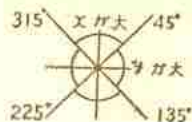
象 限	I	+	+	+
	II	-	-	+
	III	-	+	-
	IV	+	+	-

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	
	φ133 <sup>N</sup>	"		"								4985.609	4318.539	φ133 <sup>N</sup>
φ133 <sup>N</sup>	φ133 <sup>N2</sup>			252 37 20	3.536							4984.553	4375.164	φ133 <sup>N2</sup>
φ133 <sup>N2</sup>	1			"	13.543							4982.508	4363.239	1
1	2			"	18.958							4974.846	4344.147	2
2	3	108.376		"	15.915							4972.092	4322.958	3
3	4			"	45.176							4956.600	4285.866	4
4	φ135 <sup>N</sup>			"	16.786							4952.184	4271.735	φ135 <sup>N</sup>
φ135 <sup>N</sup>	a105			353 08 54	7.177							4952.310	4272.879	a105
a105	a104			340 55 04	11.864							4972.522	4267.000	a104
a104	a103			316 52 34	18.157							4983.774	4256.588	a103
a103	a140			296 47 59	14.964							4992.521	4261.231	a140
a140	7			67 09 53	27.442							5001.171	4266.522	7
7	a141	31.328		"	3.886							5002.679	4272.104	a141
a141	φ130 <sup>II</sup>			341 07 59	7.827							5010.085	4267.573	φ130 <sup>II</sup>
φ130 <sup>II</sup>	8			72 37 20	23.475							5017.096	4282.976	8
8	9			"	23.164							5026.015	4312.083	9
9	10	95.055		"	15.915							5028.768	4327.272	10
10	11			"	18.957							5036.430	4345.364	11
11	φ131 <sup>III</sup>			"	13.544							5038.474	4358.289	φ131 <sup>III</sup>
φ131 <sup>III</sup>	φ131 <sup>III2</sup>			"	3.536							5039.531	4361.664	φ131 <sup>III2</sup>
φ131 <sup>III2</sup>	φ131 <sup>III2</sup>			162 37 20	3.536							5036.156	4362.720	φ131 <sup>III2</sup>
φ131 <sup>III2</sup>	12			"	21.027							5016.089	4362.000	12
12	φ133 <sup>N'</sup>	49.429		"	28.602							4988.983	4377.483	φ133 <sup>N'</sup>



多角点計算用紙

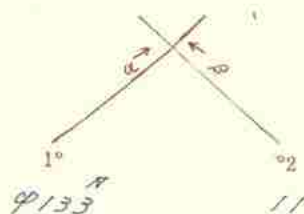
測量No. \_\_\_\_\_



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	
	9131 <sup>II</sup>	"		"	.			.	.	.	.	5039.531	4361.664	9131 <sup>III</sup>
9131 <sup>II</sup>	11			252 37 20	17.080	298671	954356	.	5.101	16.300	5034.430	4365.366	11	
11	10			"	18.957	"	"	.	5.662	18.092	5028.768	4327.272	10	
10	9			"	15.915	"	"	.	4.753	15.189	5026.015	4312.183	9	
9	14			162 37 20	28.600	"	"	.	27.104	8.482	4996.911	4320.565	14	
14	15			252 37 20	23.164	"	"	.	6.918	22.107	4989.993	4298.458	15	
15	5			"	22.010	"	"	.	6.574	21.005	4983.419	4277.453	5	
5	6			"	5.130	"	"	.	1.532	4.896	4981.887	4272.557	6	
	9131 <sup>III</sup>				.			.	.	.	.	5039.531	4361.664	9131 <sup>III</sup>
9131 <sup>III</sup>	12			162 37 20	24.563	298671	954356	.	23.462	7.336	5016.089	4368.000	12	
12	13			252 37 20	17.080	"	"	.	5.101	16.300	5010.988	4352.700	13	

算出点	1
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$$\begin{aligned} \frac{11}{9133} X_2 &= - \frac{50216 \cdot 1630}{9133} \\ \frac{9133}{11} X_1 &= - \frac{49851 \cdot 6109}{11} \\ \Delta X &= -1481 \cdot 821 \end{aligned}$$

$$\begin{aligned} \alpha &= 252^\circ - 57' - 20'' \\ \beta &= 162^\circ - 57' - 20'' \\ \beta - \alpha &= 190^\circ - 00' - 00'' \end{aligned}$$

$$\begin{aligned} Y_2 &= - \frac{49851 \cdot 17166}{11} \\ Y_1 &= - \frac{49781 \cdot 5139}{11} \\ \Delta Y &= 0133 \cdot 175 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= 0 \cdot 29986711 \text{ ①} \\ \sin \alpha &= 0 \cdot 19563566 \text{ ②} \\ \cos \beta &= 0 \cdot 19563566 \text{ ③} \\ \sin \beta &= + \cdot 29986711 \text{ ④} \\ \sin(\beta - \alpha) &= -1 \cdot 011111 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +131 \cdot 66076 \\ \Delta X \times \text{④} &= +176 \cdot 59162 \\ E &= 177 \cdot 07936 \end{aligned}$$

$$S_1 = \frac{|E|}{\text{⑤}} = 177 \cdot 10193$$

$$\begin{aligned} S_1 \times \text{①} &= 0 \quad 1111 \cdot 11011 \\ X_1 &= - \frac{49851 \cdot 6109}{11} (+) \\ X &= - \frac{49851 \cdot 6109}{11} \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 0 \quad 176 \cdot 13100 \\ Y_1 &= - \frac{49781 \cdot 5139}{11} (+) \\ Y &= - \frac{49781 \cdot 5139}{11} \end{aligned}$$

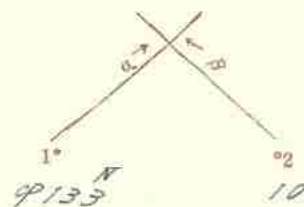
$$\begin{aligned} \Delta Y \times \text{①} &= +119 \cdot 90841 \\ \Delta X \times \text{②} &= 0 \quad 161 \cdot 59261 \\ F &= 156 \cdot 50106 \end{aligned}$$

$$S_2 = \frac{|F|}{\text{⑤}} = 156 \cdot 50110$$

$$\begin{aligned} S_2 \times \text{③} &= 0 \quad 1111 \cdot 19222 \\ X_2 &= - \frac{50216 \cdot 1630}{11} (+) \\ X &= - \frac{49851 \cdot 6109}{11} \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= + \quad 1111 \cdot 18757 \\ Y_2 &= - \frac{49781 \cdot 5139}{11} (+) \\ Y &= - \frac{49781 \cdot 5139}{11} \end{aligned}$$

算出点	2
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$$\begin{aligned} \frac{10}{9133} X_2 &= - \frac{50218 \cdot 17168}{9133} \\ \frac{9133}{10} X_1 &= - \frac{49851 \cdot 6109}{10} \\ \Delta X &= -1481 \cdot 759 \end{aligned}$$

$$\begin{aligned} \alpha &= 252^\circ - 57' - 20'' \\ \beta &= 162^\circ - 57' - 20'' \\ \beta - \alpha &= 190^\circ - 00' - 00'' \end{aligned}$$

$$\begin{aligned} \cos \alpha &= 0 \cdot 29986711 \text{ ①} \\ \sin \alpha &= 0 \cdot 19563566 \text{ ②} \\ \cos \beta &= 0 \cdot 19563566 \text{ ③} \\ \sin \beta &= + \cdot 29986711 \text{ ④} \\ \sin(\beta - \alpha) &= -1 \cdot 011111 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +148 \cdot 192697 \\ \Delta X \times \text{④} &= +176 \cdot 09046 \\ E &= 177 \cdot 07936 \end{aligned}$$

$$S_1 = \frac{|E|}{\text{⑤}} = 177 \cdot 10193$$

$$\begin{aligned} S_1 \times \text{①} &= 0 \quad 1111 \cdot 17168 \\ X_1 &= - \frac{49851 \cdot 6109}{11} (+) \\ X &= - \frac{49851 \cdot 6109}{11} \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 0 \quad 176 \cdot 13192 \\ Y_1 &= - \frac{49781 \cdot 5139}{11} (+) \\ Y &= - \frac{49781 \cdot 5139}{11} \end{aligned}$$

$$\begin{aligned} Y_2 &= - \frac{49781 \cdot 5139}{10} \\ Y_1 &= - \frac{49781 \cdot 5139}{10} \\ \Delta Y &= 0 \cdot 1571 \cdot 267 \end{aligned}$$

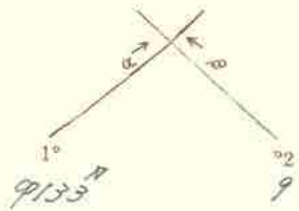
$$\begin{aligned} \Delta Y \times \text{①} &= +176 \cdot 13192 \\ \Delta X \times \text{②} &= 0 \quad 161 \cdot 178905 \\ F &= 156 \cdot 50106 \end{aligned}$$

$$S_2 = \frac{|F|}{\text{⑤}} = 156 \cdot 50110$$

$$\begin{aligned} S_2 \times \text{③} &= 0 \quad 1111 \cdot 19222 \\ X_2 &= - \frac{50216 \cdot 1630}{11} (+) \\ X &= - \frac{49851 \cdot 6109}{11} \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= + \quad 1111 \cdot 18757 \\ Y_2 &= - \frac{49781 \cdot 5139}{11} (+) \\ Y &= - \frac{49781 \cdot 5139}{11} \end{aligned}$$

算出点 3



$$\begin{aligned} X_2 &= -50221.0115 \\ X_1 &= -49851.61019 \\ \Delta X &= -11218.14016 \end{aligned}$$

$$\begin{aligned} Y_2 &= -49121.0183 \\ Y_1 &= -49781.5139 \\ \Delta Y &= -9161.4556 \end{aligned}$$

$$\begin{aligned} \alpha &= 252^\circ - 34' - 20'' \\ \beta &= 162^\circ - 34' - 20'' \\ \beta - \alpha &= 190^\circ - 00' - 00'' \end{aligned}$$

$$\begin{aligned} \cos \alpha &= 0.12986711 \text{ ①} \\ \sin \alpha &= 0.19543561 \text{ ②} \\ \cos \beta &= 0.19543561 \text{ ③} \\ \sin \beta &= 0.12986711 \text{ ④} \\ \sin(\beta - \alpha) &= -1.011111 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +1161.42268 \\ \Delta X \times \text{④} &= +1171.62016 \\ E &= 111.93192 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +1119.84848 \\ \Delta X \times \text{②} &= 0.121.61350 \\ F &= 111.50148 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 111.93192$$

$$S_2 = \frac{F}{\text{⑤}} = 111.50148$$

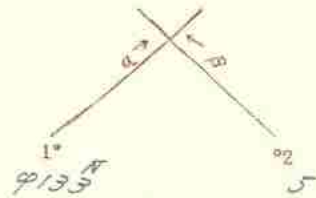
$$\begin{aligned} S_1 \times \text{①} &= -111.93192 \\ X_1 &= -49851.61019 \\ X &= -49770.14918 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= 0.121.61350 \\ X_2 &= -50221.0115 \\ X &= -49770.14918 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 0.19543561 \\ Y_1 &= -49781.5139 \\ Y &= -49721.9558 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= +111.93192 \\ Y_2 &= -49121.0183 \\ Y &= -49721.9558 \end{aligned}$$

算出点 4



$$\begin{aligned} X_2 &= -49183.14119 \\ X_1 &= -49851.61019 \\ \Delta X &= -9121.17190 \end{aligned}$$

$$\begin{aligned} Y_2 &= -49771.6153 \\ Y_1 &= -49781.5139 \\ \Delta Y &= -9110.11086 \end{aligned}$$

$$\begin{aligned} \alpha &= 252^\circ - 34' - 20'' \\ \beta &= 162^\circ - 34' - 20'' \\ \beta - \alpha &= 190^\circ - 00' - 00'' \end{aligned}$$

$$\begin{aligned} \cos \alpha &= 0.12986711 \text{ ①} \\ \sin \alpha &= 0.19543561 \text{ ②} \\ \cos \beta &= 0.19543561 \text{ ③} \\ \sin \beta &= 0.12986711 \text{ ④} \\ \sin(\beta - \alpha) &= -1.011111 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +1196.42209 \\ \Delta X \times \text{④} &= 0.111.61350 \\ E &= 1197.72162 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +1130.11946 \\ \Delta X \times \text{②} &= +111.61350 \\ F &= 1128.71042 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 1197.72162$$

$$S_2 = \frac{F}{\text{⑤}} = 1128.71042$$

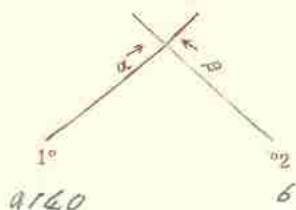
$$\begin{aligned} S_1 \times \text{①} &= 0.121.61350 \\ X_1 &= -49851.61019 \\ X &= -49770.14918 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= 0.121.61350 \\ X_2 &= -49183.14119 \\ X &= -49770.14918 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 0.19543561 \\ Y_1 &= -49781.5139 \\ Y &= -49721.9558 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= +111.93192 \\ Y_2 &= -49771.6153 \\ Y &= -49721.9558 \end{aligned}$$

算出点 7



$$\begin{aligned} 6 \quad X_2 &= -49811.1887 \\ 140 \quad X_1 &= -499101.527 \\ \Delta X &= -71181.626 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42727.5577 \\ Y_1 &= -42611.8311 \\ \Delta Y &= +11515.7266 \end{aligned}$$

$$\alpha = 167^\circ - 0' - 53''$$

$$\cos \alpha = +.1788901871 \quad ①$$

$$\beta = 142^\circ - 0' - 30''$$

$$\sin \alpha = +.196116266 \quad ②$$

$$\cos \beta = +.1957495161 \quad ③$$

$$\sin \beta = 0.1291816771 \quad ④$$

$$\beta - \alpha = 275^\circ - 0' - 27''$$

$$\sin(\beta - \alpha) = -.1995746171 \quad ⑤$$

$$\begin{aligned} \Delta Y \times ③ &= +129.89616 \\ \Delta X \times ④ &= -7117.57873 \\ E &= 127.12743 \end{aligned}$$

$$\begin{aligned} \Delta Y \times ① &= +177.15709 \\ \Delta X \times ② &= 0117.195730 \\ F &= 1201.27439 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1271.64118$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1201.210810$$

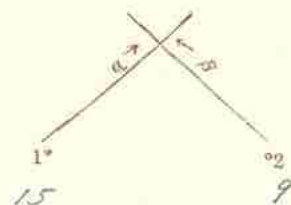
$$\begin{aligned} S_1 \times ① &= 7 \quad 117101.16576 \\ X_1 &= -499101.527 \\ X &= -510111.1171 \end{aligned}$$

$$\begin{aligned} S_2 \times ③ &= + \quad 11719.2294 \\ X_2 &= -49811.1887 \\ X &= -510111.1171 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 7 \quad 11271.2194 \\ Y_1 &= -42611.8311 \\ Y &= -42616.1527 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0 \quad 11161.0375 \\ Y_2 &= -42727.5577 \\ Y &= -42616.1527 \end{aligned}$$

算出点 8



$$\begin{aligned} 9 \quad X_2 &= -510171.10115 \\ 15 \quad X_1 &= -491891.19193 \\ \Delta X &= -11827.90682 \end{aligned}$$

$$\begin{aligned} Y_2 &= -429171.10193 \\ Y_1 &= -42981.1458 \\ \Delta Y &= -11736.1625 \end{aligned}$$

$$\alpha = 136^\circ - 0' - 20''$$

$$\cos \alpha = +.1957495161 \quad ①$$

$$\beta = 252^\circ - 0' - 20''$$

$$\sin \alpha = 0.1291816771 \quad ②$$

$$\cos \beta = 0.1291816771 \quad ③$$

$$\sin \beta = 0.1995746171 \quad ④$$

$$\beta - \alpha = 116^\circ - 0' - 0''$$

$$\sin(\beta - \alpha) = -.1011111 \quad ⑤$$

$$\begin{aligned} \Delta Y \times ③ &= 01171.016999 \\ \Delta X \times ④ &= 01732.60910 \\ E &= 1271.64118 \end{aligned}$$

$$\begin{aligned} \Delta Y \times ① &= +177.15709 \\ \Delta X \times ② &= 01701.161138 \\ F &= 1271.64118 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1271.64118$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1271.64118$$

$$\begin{aligned} S_1 \times ① &= 7 \quad 11271.2194 \\ X_1 &= -491891.19193 \\ X &= -510171.10115 \end{aligned}$$

$$\begin{aligned} S_2 \times ③ &= 0 \quad 11161.0375 \\ X_2 &= -510171.10115 \\ X &= -510171.10115 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 0 \quad 1118.16282 \\ Y_1 &= -42981.1458 \\ Y &= -42981.1458 \end{aligned}$$

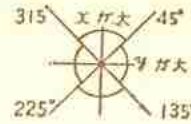
$$\begin{aligned} S_2 \times ④ &= 0 \quad 11271.2194 \\ Y_2 &= -429171.10193 \\ Y &= -42981.1458 \end{aligned}$$





多角点計算用紙

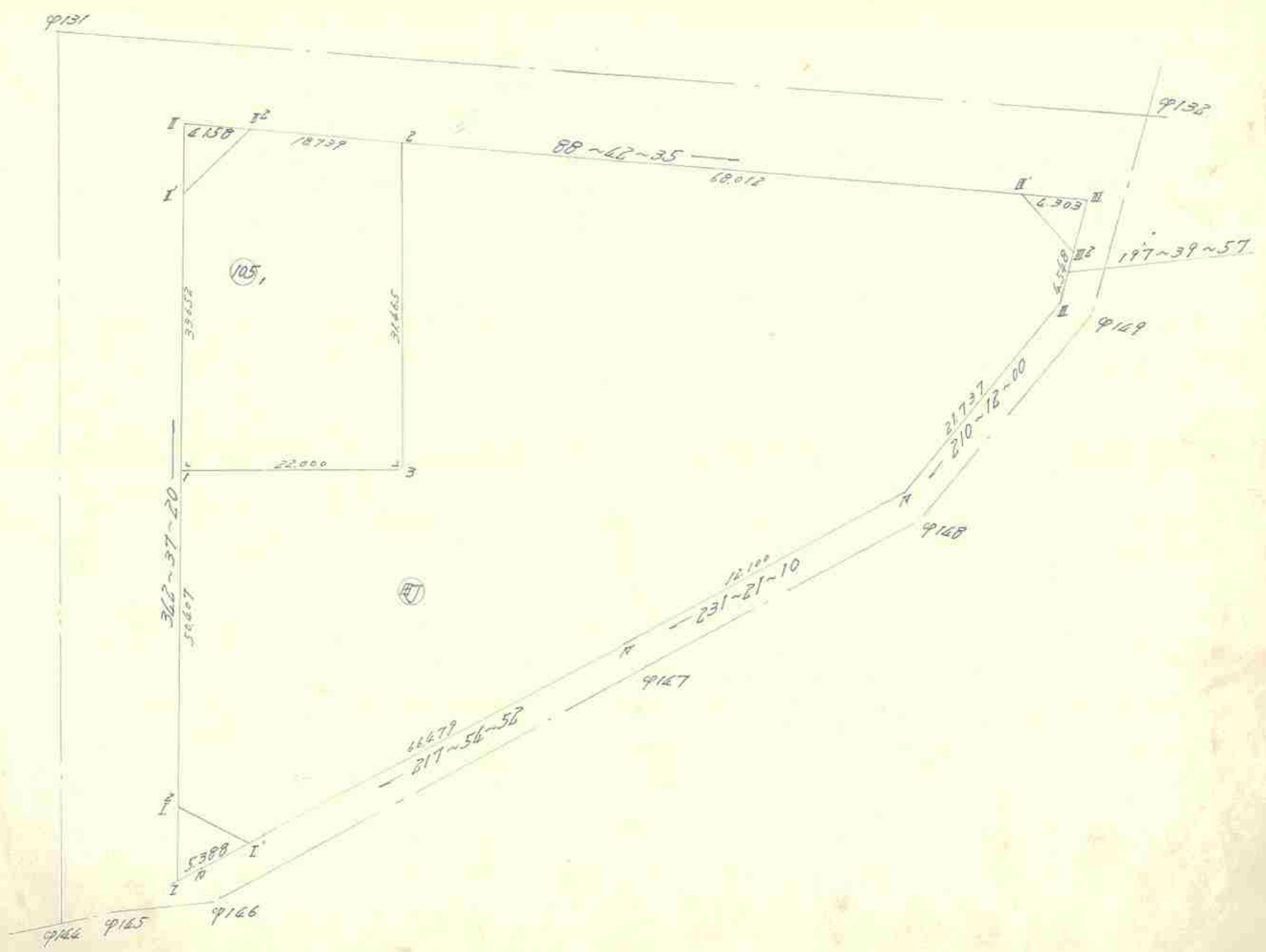
測量No. \_\_\_\_\_



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

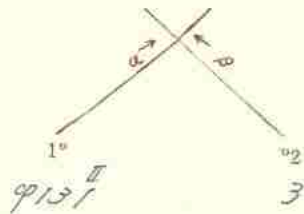
測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	φ146 <sup>I</sup>	"		"	.			.	.	.	.	4250.633	4406.250	φ144 <sup>I</sup>
φ146 <sup>I</sup>	φ146 <sup>I<sup>2</sup></sup>			342 37 20	5.388			.	.	.	.	4255.775	4406.661	φ144 <sup>I<sup>2</sup></sup>
φ146 <sup>I<sup>2</sup></sup>	I		86.059	"	50.407			.	.	.	.	5003.880	4389.586	I
I	φ131 <sup>II</sup>			"	33.652			.	.	.	.	5025.996	4379.535	φ131 <sup>II</sup>
φ131 <sup>II</sup>	φ131 <sup>II</sup>			"	4.158			.	.	.	.	5039.964	4378.293	φ131 <sup>II</sup>
φ131 <sup>II</sup>	φ131 <sup>II<sup>2</sup></sup>			88 42 35	4.158			.	.	.	.	5040.059	4382.450	φ131 <sup>II<sup>2</sup></sup>
φ131 <sup>II<sup>2</sup></sup>	2		86.751	"	18.739			.	.	.	.	5040.480	4401.184	2
2	φ132 <sup>III</sup>			"	68.012			.	.	.	.	5042.011	4469.179	φ132 <sup>III</sup>
φ132 <sup>III</sup>	φ132 <sup>III</sup>			"	4.303			.	.	.	.	5042.109	4473.481	φ132 <sup>III</sup>
φ132 <sup>III</sup>	φ132 <sup>III<sup>2</sup></sup>			197 39 57	4.303			.	.	.	.	5038.009	4472.175	φ132 <sup>III<sup>2</sup></sup>
φ132 <sup>III<sup>2</sup></sup>	φ149 <sup>IV</sup>			"	4.568			.	.	.	.	5033.675	4470.795	φ149 <sup>IV</sup>
φ149 <sup>IV</sup>	φ148 <sup>V</sup>			210 12 00	21.737			.	.	.	.	5014.888	4459.861	φ148 <sup>V</sup>
φ148 <sup>V</sup>	φ147 <sup>VI</sup>			231 21 10	12.100			.	.	.	.	5007.331	4450.611	φ147 <sup>VI</sup>
φ147 <sup>VI</sup>	φ146 <sup>I</sup>			217 54 52	66.479			.	.	.	.	4254.884	4409.561	φ146 <sup>I</sup>
φ146 <sup>I</sup>	φ146 <sup>I</sup>			"	5.388			.	.	.	.	4250.633	4406.250	φ146 <sup>I</sup>

77





算出点 2



$$\begin{aligned} X_2 &= -501101.451 \\ X_1 &= -501319.1964 \\ \Delta X &= -212191.5113 \end{aligned}$$

$$\begin{aligned} \alpha &= 188^\circ - 45' - 15'' \\ \beta &= 342^\circ - 57' - 20'' \\ \beta - \alpha &= 253^\circ - 54' - 45'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{4} &= +130.181520 \\ \Delta X \times \textcircled{3} &= +1128.81468 \\ E &= 122.60652 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 122.18972$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +1111.5116 \\ X_1 &= -501319.1964 (+) \\ X &= -501410.1480 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +1122.1891 \\ Y_1 &= -4131781.2193 (+) \\ Y &= -4141011.1184 \end{aligned}$$

$$\begin{aligned} Y_2 &= -414101.582 \\ Y_1 &= -4131781.2193 (-) \\ \Delta Y &= +1312.2189 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +.102225118 \textcircled{1} \\ \text{Sin} \alpha &= +.191917416 \textcircled{2} \\ \text{Cos} \beta &= +.195423516 \textcircled{3} \\ \text{Sin} \beta &= -.12981671 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.126084101 \textcircled{5} \end{aligned}$$

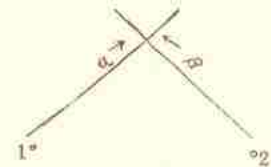
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1111.72708 \\ \Delta X \times \textcircled{2} &= 0.29.50550 (-) \\ F &= 130.23258 \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{5}} = 131.46417$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +11310.6228 \\ X_2 &= -501101.451 (+) \\ X &= -501410.1480 = 1 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.119.3198 \\ Y_2 &= -414101.582 (+) \\ Y &= -4141011.1184 \end{aligned}$$

算出点



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

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

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

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

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

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

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

$$\begin{aligned} \text{Cos} \alpha &= - \\ \text{Sin} \alpha &= - \\ \text{Cos} \beta &= - \\ \text{Sin} \beta &= - \\ \text{Sin}(\beta - \alpha) &= - \end{aligned}$$

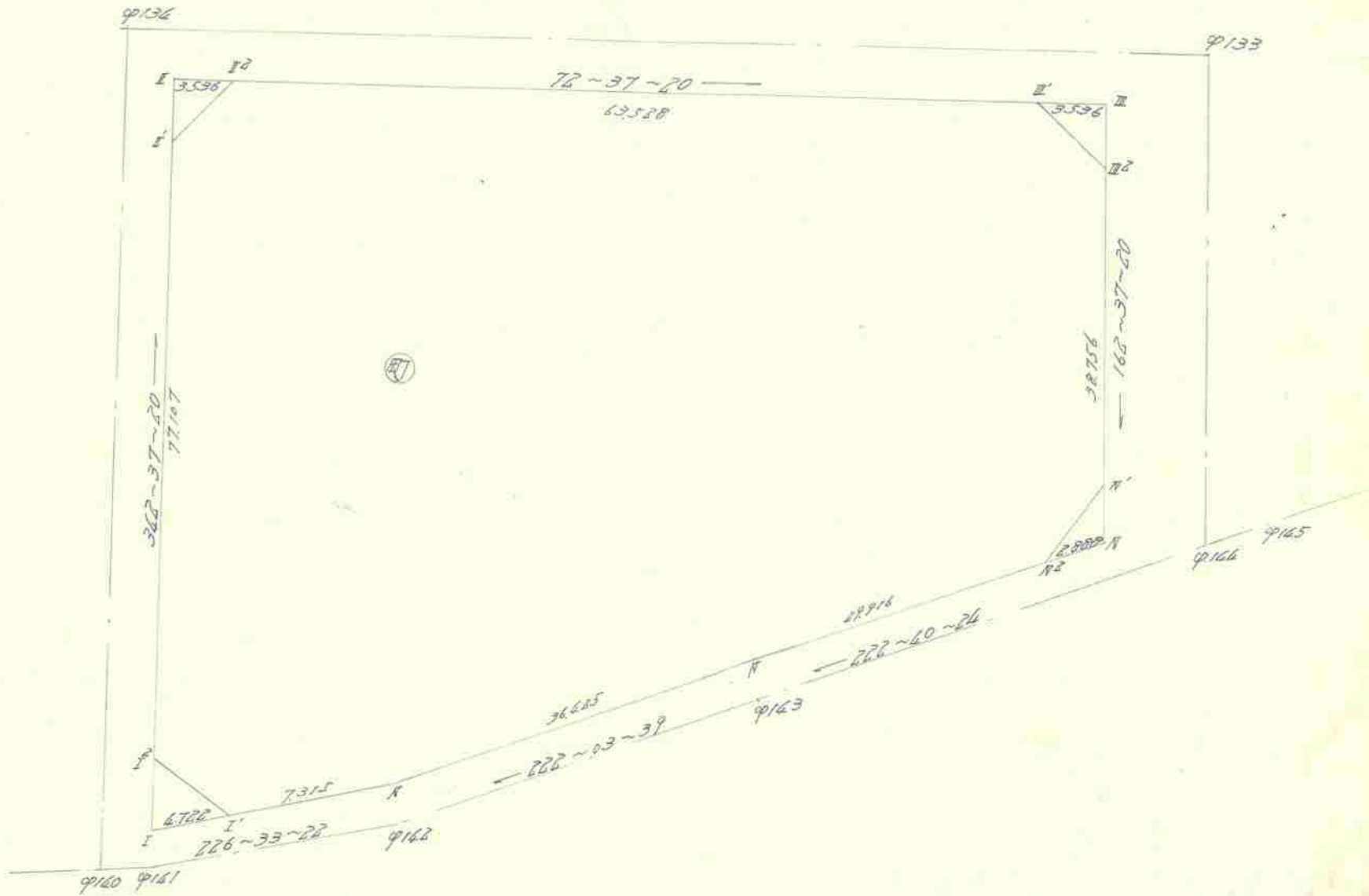
$$\begin{aligned} \Delta Y \times \textcircled{1} &= - \\ \Delta X \times \textcircled{2} &= - \\ F &= \end{aligned}$$

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

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

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

78

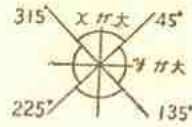


# 各筆面積計算集計表

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	
79	④	4633	580	1401.66				
					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=	. (-
					Σ =	. . .	Σ =	. . .

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	
	φ146 <sup>N</sup>	° ' "		° ' "										
	φ146 <sup>N</sup>			222 40 26	2.888							4936.766	4393.825	φ146 <sup>N</sup>
	φ146 <sup>N2</sup>			"	"							4936.643	4391.868	φ146 <sup>N2</sup>
	φ146 <sup>N2</sup>			"	29.916							4912.648	4371.590	φ146 <sup>N</sup>
	φ146 <sup>N</sup>			222 03 39	36.425							4885.604	4347.189	φ146 <sup>N</sup>
	φ146 <sup>N</sup>			226 33 22	7.315							4880.574	4341.878	φ146 <sup>N</sup>
	φ146 <sup>I</sup>			"	4.722							4877.327	4338.450	φ146 <sup>I</sup>
	φ146 <sup>I</sup>			342 37 20	4.722							4886.833	4337.060	φ146 <sup>I</sup>
	φ146 <sup>I2</sup>			"	77.107							4955.421	4316.010	φ136 <sup>I2</sup>
	φ136 <sup>I</sup>			"	3.536							4958.796	4312.956	φ136 <sup>I</sup>
	φ136 <sup>I</sup>			72 37 20	3.536							4959.852	4316.329	φ136 <sup>I2</sup>
	φ136 <sup>I2</sup>			"	63.528							4978.827	4376.956	φ133 <sup>I2</sup>
	φ133 <sup>I</sup>			"	3.536							4979.883	4380.331	φ133 <sup>I</sup>
	φ133 <sup>I</sup>			162 37 20	3.536							4976.508	4381.387	φ133 <sup>I2</sup>
	φ133 <sup>I2</sup>			"	38.756							4939.522	4382.962	φ146 <sup>N</sup>
	φ146 <sup>N</sup>			"	2.888							4936.766	4393.825	φ146 <sup>N</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 ⑩ <sub>2</sub>	9135	4966.032	-	16.033	4272.169	-	932.987	/	1518.458	/	1012.748
	9136	4955.948	-	7.597	4303.854	-	936.116	/	2020.618	/	788.979
	9136	4953.629	-	721.591	4308.285	-	910.461	/	561.013	2337.981	/
	4	4934.357	-	31.641	4314.315	-	133.493	1150.719	/	3617.041	/
	2	4921.988	-	2.046	4374.792	-	42.893	943.131	/	153.026	/
	0108	4932.311	-	19.927	4271.428	-	3.925	126.821	/	/	1423.226
	0107	4941.915	-	13.721	4270.867	-	0.747	/	31.311	/	972.366

控除シタル値

X=於テ 4.900

y=於テ 4.200

$$\bar{x} = 2220.671 \quad 4131.600 \quad 6108.046 \quad 4197.319$$

$$2s = 1910.729 \quad 1910.727$$

$$s = 955.364$$

289 呎 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 ⑩ <sub>1</sub>	5	4921.865	-	10.993	4318.231	-	16.794	366.865	/	2245.561	/
	7	4915.364	-	6.031	4297.521	-	20.626	378.354	/	/	588.149
	3	4927.876	-	18.993	4293.605	-	16.794	/	468.150	/	1777.840
	4	4934.357	-	6.031	4314.315	-	20.626	/	846.075	689.436	/

控除シタル値

X=於テ 4.900

y=於テ 4.200

$$\bar{x} = 765.219 \quad 1314.225 \quad 2934.995 \quad 2365.989$$

$$2s = 569.006 \quad 569.006$$

$$s = 284.503$$

86.06 呎 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 28,	6	4.899.313	-	+ 63.357.4325.282	-	-	+ 59.693.5908.428			5631.852	
	1	4.878.488	-	⊖ 18.319.4258.738	-	-	+ 49.068.3851.269				1076.021
	0109	4.917.632	-	⊖ 43.450.4276.214	-	-	⊖ 16.054		1888.464		3315.309
	2	4.921.988	-	⊖ 10.244.4274.792	-	-	⊖ 17.391		2120.493		766.169
	3	4.927.876	-	+ 6.624.4293.605	-	-	⊖ 22.729		2906.494	620.060	
	7	4.915.364	-	+ 6.031.4297.521	-	-	⊖ 24.626		2840.954	588.149	
	5	4.921.865	-	+ 16.051.4318.231	-	-	⊖ 27.761		3382.539	1897.726	

控除シタル値

X=於テ 4.800

Y=於テ 4.200

$\Sigma = 9759.677$   $13.139.944$   $8537.767$   $5157.499$

$\Sigma S = 3380.267$

$3380.268$

S = 1690.136

年 月 日

511.2609.

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 27	9140	4.871.687	-	+ 10.184.4330.647	-	-	+ 18.441.1322.697			1853.097	
	9139	4.862.159	-	+ 25.120.4314.020	-	-	+ 52.004.3237.489			2852.780	
	9138	4.846.667	-	+ 17.099.4278.563	-	-	+ 47.017.2231.676			1343.349	
	9137	4.845.060	-	+ 7.323.4266.203	-	-	+ 37.301.1680.783			484.805	
	9136	4.839.364	-	+ 33.428.4241.262	-	-	+ 7.465.293.703				1379.306
	1	4.878.488	-	⊖ 49.969.4258.738	-	-	⊖ 84.020		8594.562		3522.659
	6	4.899.313	-	+ 7.145.4325.282	-	-	⊖ 73.733		7322.645	268.730	
	9140	4.876.363	-	+ 27.424.4332.471	-	-	⊖ 43.664		409.580	3659.644	

控除シタル値

X=於テ 4.800

Y=於テ 4.200

$\Sigma = 8766.148$   $16320.787$   $10462.405$   $6901.765$

$\Sigma S = 5560.639$

$5560.640$

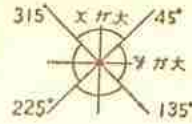
S = 2780.320

年 月 日

841.0509.

多角点計算用紙

測量No. \_\_\_\_\_

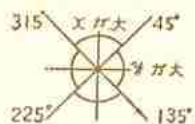


象 限	I	+	+	+
	II	-	-	-
	III	+	-	-
	IV	-	+	+

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	
	φ136 <sup>I</sup>	1 "		1 "	.			.	.	.	.	4839.344	4241.262	φ136 <sup>I</sup>
φ136 <sup>I</sup>	1	85.736		24 03 30	42.868			.	.	.	.	4878.488	4258.738	1
1	φ109			"		42.868			.	.	.	.	4917.632	4276.214
φ109	2	15.441		341 55 07	4.582			.	.	.	.	4921.988	4274.792	2
2	φ108			"		10.859			.	.	.	.	4932.311	4271.422
φ108	φ107			356 41 34	9.620			.	.	.	.	4941.915	4270.867	φ107
φ107	φ135 <sup>III</sup>			17 33 10	4.318			.	.	.	.	4946.032	4272.169	φ135 <sup>III</sup>
φ135 <sup>III</sup>	φ134 <sup>III'</sup>			72 37 20	33.200			.	.	.	.	4955.948	4303.854	φ134 <sup>III'</sup>
φ134 <sup>III'</sup>	φ134 <sup>III</sup>			"	3.536			.	.	.	.	4957.004	4307.228	φ134 <sup>III</sup>
φ134 <sup>III</sup>	φ134 <sup>III2</sup>			162 37 20	3.536			.	.	.	.	4953.629	4308.285	φ134 <sup>III2</sup>
φ134 <sup>III2</sup>	4			"	20.194			.	.	.	.	4954.257	4314.315	4
4	5			"	13.110			.	.	.	.	4921.845	4318.231	5
5	6	80.983		"	23.610			.	.	.	.	4899.313	4325.287	6
6	φ140 <sup>N'</sup>				"	26.069			.	.	.	.	4876.343	4332.471
φ140 <sup>N'</sup>	φ140 <sup>N</sup>			"	3.207			.	.	.	.	4873.282	4333.429	φ140 <sup>N</sup>
φ140 <sup>N</sup>	φ140 <sup>N2</sup>			240 10 49	3.207			.	.	.	.	4871.687	4330.647	φ140 <sup>N2</sup>
φ140 <sup>N2</sup>	φ139 <sup>N</sup>			"	19.163			.	.	.	.	4862.159	4314.020	φ139 <sup>N</sup>
φ139 <sup>N</sup>	φ138 <sup>N</sup>			246 23 53	38.694			.	.	.	.	4846.667	4278.563	φ138 <sup>N</sup>
φ138 <sup>N</sup>	φ137 <sup>N</sup>			262 35 43	12.464			.	.	.	.	4845.060	4266.203	φ137 <sup>N</sup>
φ137 <sup>N</sup>	φ136 <sup>I</sup>			257 05 26	25.588			.	.	.	.	4839.344	4241.262	φ136 <sup>I</sup>

多角点計算用紙

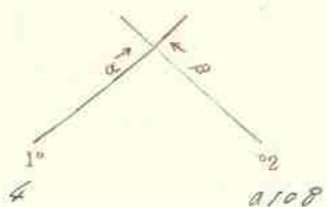
測量No. \_\_\_\_\_



象 限	I	+	/	+	/
	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	
	II P136	° ' "		° ' "	.			.	.	.	.	4957.006	6307.228	II P136
II P134	4			162 37 20	23.730	298671	954356	.	22.647	7.087	.	4936.357	6316.315	4
4	3			252 37 20	21.700	.	.	.	6.481	.	20.710	4927.876	6293.605	3
3	7			162 37 20	13.110	.	.	.	12.512	3.916	.	4915.366	6297.521	7
7	5			72 37 20	21.700	.	.	.	6.481	.	20.710	4921.865	6318.231	5
	4			.	.	.	.	.	.	.	.	.	.	.
4	6			162 37 20	36.720	298671	954356	.	35.066	10.967	.	4899.313	6325.282	6
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算出点	2
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$$\begin{aligned} a_{108} X_2 &= -419134.0357 \\ 4 X_1 &= -419134.0357 \\ \Delta X &= -111.61616 \end{aligned}$$

$$\begin{aligned} \alpha &= 252^\circ - 37' - 28'' \\ \beta &= 161^\circ - 55' - 07'' \\ \beta - \alpha &= 89^\circ - 17' - 47'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +141.177481 \\ \Delta X \times \textcircled{4} &= 0.1111.63501 \\ E &= 141.177481 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{3}} = 141.177481$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 0.1111.63501 \\ X_1 &= -419134.0357 \\ X &= -419134.0357 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0.1111.63501 \\ Y_1 &= -419134.0357 \\ Y &= -419134.0357 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42771.1714 \\ Y_1 &= -42771.1714 \\ \Delta Y &= -0.1714 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.129186711 \textcircled{1} \\ \text{Sin} \alpha &= 0.195161566 \textcircled{2} \\ \text{Cos} \beta &= 0.1911311311 \textcircled{3} \\ \text{Sin} \beta &= 0.171093681 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.1999925 \textcircled{5} \end{aligned}$$

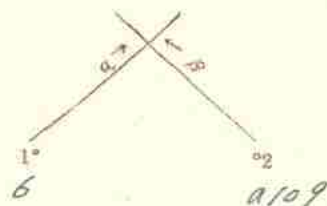
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +117.81090 \\ \Delta X \times \textcircled{2} &= +111.195261 \\ F &= 117.81090 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{1}} = 117.81090$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0.1111.63501 \\ X_2 &= -419134.0357 \\ X &= -419134.0357 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= +111.195261 \\ Y_2 &= -42771.1714 \\ Y &= -42771.1714 \end{aligned}$$

算出点	1
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$$\begin{aligned} a_{109} X_2 &= -419117.1613 \\ 6 X_1 &= -419117.1613 \\ \Delta X &= -111.1613 \end{aligned}$$

$$\begin{aligned} \alpha &= 252^\circ - 37' - 28'' \\ \beta &= 208^\circ - 03' - 30'' \\ \beta - \alpha &= 59^\circ - 28' - 02'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +141.177481 \\ \Delta X \times \textcircled{4} &= 0.1111.63501 \\ E &= 141.177481 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{3}} = 141.177481$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 0.1111.63501 \\ X_1 &= -419134.0357 \\ X &= -419134.0357 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0.1111.63501 \\ Y_1 &= -419134.0357 \\ Y &= -419134.0357 \end{aligned}$$

$$\begin{aligned} Y_2 &= -42771.1714 \\ Y_1 &= -42771.1714 \\ \Delta Y &= -0.1714 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.129186711 \textcircled{1} \\ \text{Sin} \alpha &= 0.195161566 \textcircled{2} \\ \text{Cos} \beta &= 0.1911311311 \textcircled{3} \\ \text{Sin} \beta &= 0.171093681 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.1999925 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= +117.81090 \\ \Delta X \times \textcircled{2} &= 0.1111.63501 \\ F &= 117.81090 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{1}} = 117.81090$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0.1111.63501 \\ X_2 &= -419134.0357 \\ X &= -419134.0357 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= +111.195261 \\ Y_2 &= -42771.1714 \\ Y &= -42771.1714 \end{aligned}$$

