

伏家都市計画土地区画整理事業

確定測量

換地面積計算書

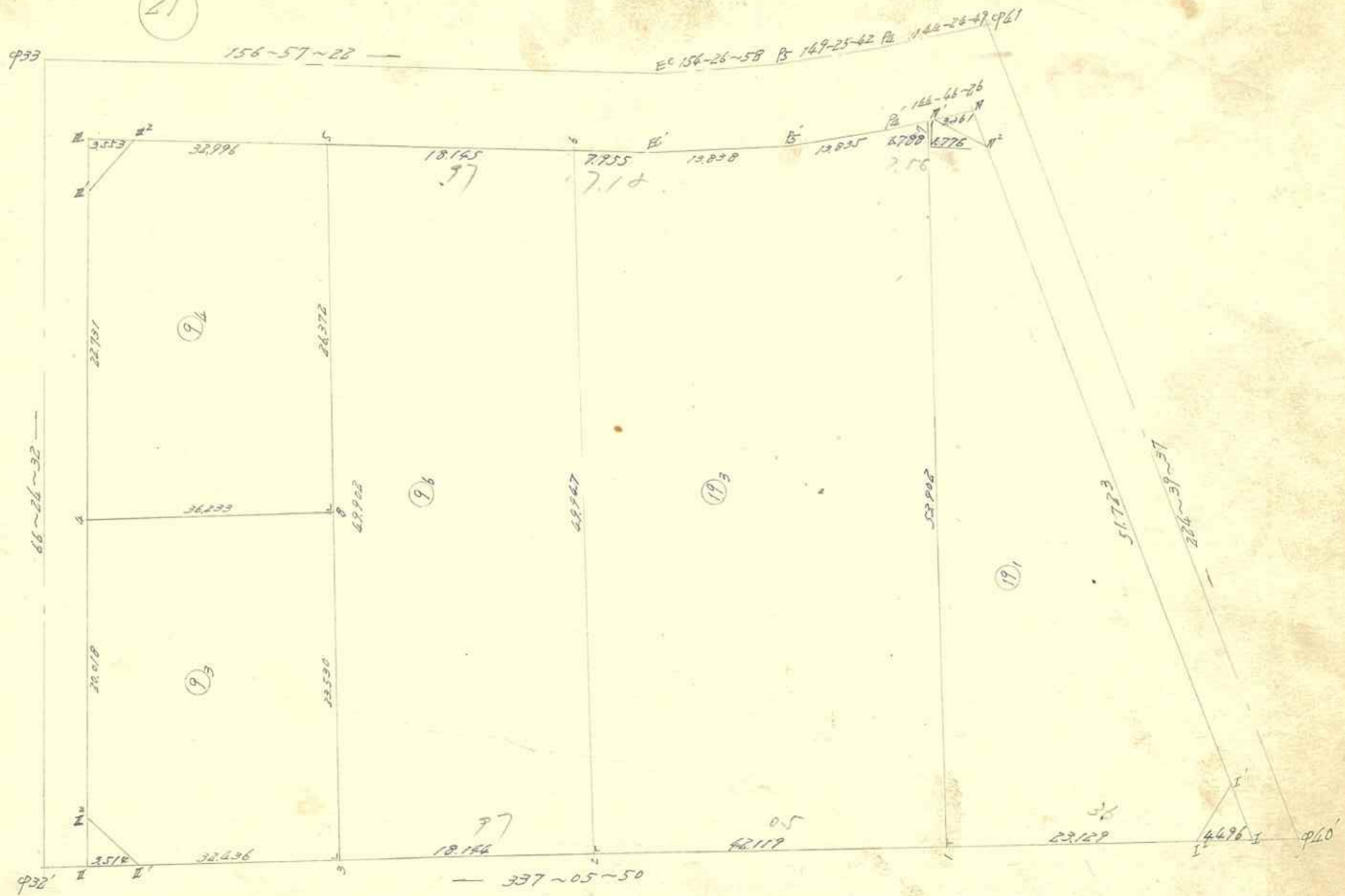
草川工区

昭和39年12月実測

全4冊の内 2 (21~40)

宇都宮市清柱町2.781  
協和建設測量有限公司  
電話(2)5777番

21



# 各筆面積計算集計表

ブロック 番号	各筆確定				備 考	各筆確定				備 考
	各 筆 番 号	面 積 m <sup>2</sup>		坪		各 筆 番 号	面 積 m <sup>2</sup>		坪	
Z1	③	943.259	255	13	✓					
	④	951.774	287	91	✓					
	⑤	905.825	274	01	✓					
	③	2151.691	650	89	✓					
	④	877.354	265	40	✓					
						計				
							m <sup>2</sup>		坪	
						ブロック計算=	5789.695	ブロック計算=	1733.23	
						各筆集計=	5789.703 (-	各筆集計=	1733.24 (-	
						ε =	.008	ε =	.01	

協和建設測量

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
21	筆番号	800	6,421,862	-	+ 42,534	3,526,304	-	+ 7,574	165,583	,	3,245,514	,
	①	3	6,412,705	-	② 20,722	3,504,629	-	+ 34,298	435,756	,	,	11,32,072
		932 <sup>1</sup>	6,442,584	-	③ 34,522	3,492,006	-	7,10,771	459,672	,	,	1,450,131
		932 <sup>2</sup>	6,447,227	-	④ 12,655	3,493,858	-	⑤ 20,197	,	953,944	,	555,023
		4	6,455,239	-	+ 25,365	3,512,203	-	⑥ 32,446	,	1,792,225	15,77,779	,
		45	,	-	,	,	-	,	,	,	,	,
		46	,	-	,	,	-	,	,	,	,	,
		47	,	-	,	,	-	,	,	,	,	,
		48	,	-	,	,	-	,	,	,	,	,

控除シタル値

X = 於テ 6,400

Y = 於テ 3,450

$$\bar{z} = \frac{10600112.746.129}{1823.293} = 3137.176$$

$$2S = \frac{1626.112}{1626.117}$$

$$S = 843.059$$

年 月 日

255.03坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
21	筆番号	5	6,432,125	-	+ 40,627	3,550,597	-	+ 17,377	365,486	,	2,055,606	,
	②	800	6,421,862	-	③ 23,114	3,526,304	-	+ 38,394	839,370	,	,	607,991
		4	6,455,239	-	④ 42,474	3,512,203	-	⑤ 6,730	,	371,758	,	518,310
		933 <sup>1</sup>	6,464,336	-	⑥ 7,250	3,533,034	-	⑦ 25,478	,	1,639,153	,	239,497
		933 <sup>2</sup>	6,462,489	-	+ 32,211	3,537,681	-	⑧ 17,563	,	1,097,494	1,413,743	,
		51	,	-	,	,	-	,	,	,	,	,
		52	,	-	,	,	-	,	,	,	,	,
		53	,	-	,	,	-	,	,	,	,	,
		54	,	-	,	,	-	,	,	,	,	,
		57	,	-	,	,	-	,	,	,	,	,

控除シタル値

X = 於テ 6,400

Y = 於テ 3,500

$$\bar{z} = \frac{1204856.8108.405}{2269.347} = 1565.798$$

$$2S = \frac{1903.549}{1903.549}$$

$$S = 951.774$$

年 月 日

287.91坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
21	筆番号 6	6415.489	-	+ 36.134	3557.699	-	+ 38.907	989.566		2084.896	
	7	6395.991	-	+ 2.229	3511.690	-	+ 53.070	317.942		31.844	
	3	6418.705	-	⊖ 36.134	3506.629	-	⊖ 38.907		883.383		187.264
	5	6432.125	-	⊖ 2.724	3550.597	-	⊖ 53.070		2235.574		137.826
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 6.390

y = 於テ 3.500

$\Sigma = 1307.708 \quad 3.118.957 \quad 2.116.740 \quad 305.690$

$2S = 1811.649 \quad 1811.690$

$S = 905.825$

2274014

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)	+	-	+	-
21	筆番号 1	6357.191	-	⊖ 17.823	3528.082	-	+ 66.045	474.930			500.505
	2	6395.991	-	⊖ 58.238	3511.690	-	⊖ 29.617		1362.115		680.802
	6	6415.489	-	⊖ 12.118	3557.699	-	⊖ 49.123		3214.069		699.196
	EG'	6408.109	-	+ 19.805	3560.813	-	⊖ 9.083		527.804	1206.401	
	P5'	6395.624	-	+ 24.396	3566.782	-	⊖ 13.016		593.396	1609.714	
	P4'	6383.713	-	+ 17.456	3573.819	-	⊖ 10.953		369.258	1288.584	
	7	6378.168	-	+ 26.522	3577.735	-	+ 45.727	1288.320		2061.688	
			-			-					
			-			-					

控除シタル値

X = 於テ 6.350

y = 於テ 3.500

$\Sigma = 1763.250 \quad 6066.632 \quad 6183.887 \quad 1280.503$

$2S = 4303.382 \quad 4303.384$

$S = 2151.691$

650.890

印  
年 月 日

2 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)	+	-	+	-	
21	筆番号 941 <sup>Ⅰ</sup>	6,376,717	-	+ 6,434	3,578,759	-	⊖ 613			47,028	546,735	
	941 <sup>Ⅱ</sup>	6,371,734	-	+ 41,774	3,578,348	-	+ 74,719	2637,516			3476,709	
	940 <sup>Ⅰ</sup>	6,334,943	-	+ 35,947	3,541,991	-	+ 41,766	1441,959			1505,251	
	940 <sup>Ⅱ</sup>	6,335,887	-	⊖ 22,248	3,537,082	-	+ 13,909	499,132				825,000
	12	6,357,191	-	⊖ 42,281	3,528,082	-	⊖ 40,653		2324,986			1187,335
	7	6,378,168	-	⊖ 19,526	3,577,735	-	⊖ 50,877		3,961,320			1,517,854
			-			-						
			-			-						
			-			-						
			-			-						

控除シタル値

Xニ於テ 6,300

yニ於テ 3,500

$\Sigma = 4,578,626$      $6,333,334$      $5,284,895$      $3,530,189$

$2S = 1,754,708$

$1,754,706$

S = 877,354

265.40 坪

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 67		-	-		-					
	68		-	-		-					
	69		-	-		-					
	70		-	-		-					
	71		-	-		-					
	72		-	-		-					
	73		-	-		-					
	74		-	-		-					
	75		-	-		-					

控除シタル値

Xニ於テ

yニ於テ

M =

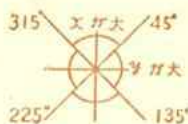
2S =

S =

印  
年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



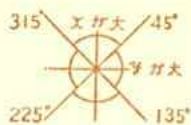
象 限	I	+	+	+
	II	-	+	-
	III	-	-	-
	IV	+	-	+

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	
	φ40 <sup>I</sup>	"		"								6331.745	3538.832	φ40 <sup>I</sup>
φ40 <sup>I</sup>	φ40 <sup>I</sup>			337 05 50	4.496							6335.887	3537.082	φ40 <sup>I</sup>
φ40 <sup>I</sup>	1			"	23.129							6357.191	3528.088	1
1	2			"	42.119							6395.991	3511.690	2
2	3	115.828		"	18.144							6412.705	3504.629	3
3	φ32 <sup>II</sup>			"	32.436							6442.584	3492.006	φ32 <sup>II</sup>
φ32 <sup>II</sup>	φ32 <sup>II</sup>			"	3.514							6445.821	3490.638	φ32 <sup>II</sup>
φ32 <sup>II</sup>	φ32 <sup>II</sup>			66 24 32	3.514							6447.227	3493.858	φ32 <sup>II</sup>
φ32 <sup>II</sup>	4			"	20.018							6455.239	3512.203	4
4	φ33 <sup>III</sup>	42.749		"	22.731							6464.336	3533.034	φ33 <sup>III</sup>
φ33 <sup>III</sup>	φ33 <sup>III</sup>			"	3.553							6465.758	3536.290	φ33 <sup>III</sup>
φ33 <sup>III</sup>	φ33 <sup>III</sup>			156 57 22	3.553							6462.489	3537.681	φ33 <sup>III</sup>
φ33 <sup>III</sup>	5			"	32.996							6432.125	3550.597	5
5	6	59.096		"	18.145							6415.429	3557.699	6
6	EC'			"	7.955							6408.109	3560.813	EC'
EC'	P5'			154 26 58	13.838							6395.624	3566.782	P5'
P5'	P4'			149 25 42	13.835							6383.713	3573.819	P4'
P4'	7	8.564		144 46 26	6.788							6378.168	3577.723	7
7	φ41 <sup>IV</sup>			"	1.776							6376.717	3578.759	φ41 <sup>IV</sup>
φ41 <sup>IV</sup>	φ41 <sup>IV</sup>			"	3.261							6374.053	3580.640	φ41 <sup>IV</sup>
φ41 <sup>IV</sup>	φ41 <sup>IV</sup>			226 39 37	3.261							6371.734	3578.348	φ41 <sup>IV</sup>
φ41 <sup>IV</sup>	φ40 <sup>I</sup>			"	51.723							6334.943	3541.991	φ40 <sup>I</sup>
φ40 <sup>I</sup>	φ40 <sup>I</sup>			"	4.496							6331.745	3538.832	φ40 <sup>I</sup>

協和建設測量

多角点計算用紙

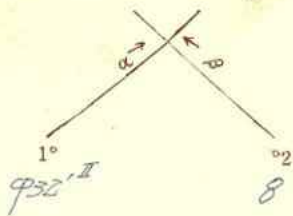
測量No. \_\_\_\_\_



象限	I	+	+	+
	II	-	-	-
	III	-	-	-
	IV	+	+	+

観点	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	
	932 <sup>I</sup>											6445.821	3490.638	932 <sup>II</sup>
3	3			157 05 50	35.950	389169	921167	33.116	13.991			6412.705	3504.629	3
3	2				18.144	"	"	16.714	7.061			6395.991	3511.690	2
	940 <sup>I</sup>											6331.745	3538.832	940 <sup>I</sup>
960 <sup>I</sup>	1			337 05 50	27.624	389169	921167	25.446				6357.191	3528.082	1
	3											6412.705	3504.629	3
3	8			67 05 50	23.530	389169	921167	9.157	21.675			6421.862	3526.304	8

算出点 4



$$\begin{aligned} X_2 &= -644211.18182 \\ X_1 &= -644251.1821 \\ \Delta X &= -01231.959 \end{aligned}$$

$$\alpha = 156^\circ - 24' - 58''$$

$$\beta = 137^\circ - 25' - 50''$$

$$\beta - \alpha = 270^\circ - 41' - 18''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +132.95434 \\ \Delta X \times \textcircled{4} &= +1191.32405 \\ E &= 123.53029 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 123.5300$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +119.418 \\ X_1 &= -644251.1821 \\ X &= -6455.239 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +121.565 \\ Y_1 &= -34901.6319 \\ Y &= -3512.203 \end{aligned}$$

$$\begin{aligned} Y_2 &= -351261.1314 \\ Y_1 &= -34901.6319 \\ \Delta Y &= +1131.4995 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.14101026171 \textcircled{1} \\ \text{Sin} \alpha &= +0.191164215 \textcircled{2} \\ \text{Cos} \beta &= +0.1921116171 \textcircled{3} \\ \text{Sin} \beta &= 0.1381916171 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.199191281 \textcircled{5} \end{aligned}$$

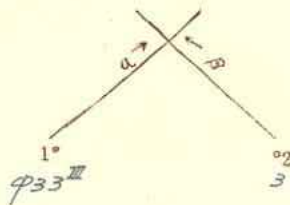
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +114.27378 \\ \Delta X \times \textcircled{2} &= 0121.95663 \\ F &= 126.83041 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = \frac{36.2330}{126.8366}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +133.377 \\ X_2 &= -64211.18182 \\ X &= -6455.239 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0114.104 \\ Y_2 &= -351261.1314 \\ Y &= -3512.203 \end{aligned}$$

算出点 5



$$\begin{aligned} X_2 &= -644161.17105 \\ X_1 &= -644165.17158 \\ \Delta X &= -01591.0153 \end{aligned}$$

$$\alpha = 156^\circ - 57' - 28''$$

$$\beta = 161^\circ - 05' - 50''$$

$$\beta - \alpha = 191^\circ - 08' - 22''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 01121.92142 \\ \Delta X \times \textcircled{4} &= 01429.89267 \\ E &= 126.521925 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 126.52194$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 01331.633 \\ X_1 &= -644165.17158 \\ X &= -64391.125 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +1141.307 \\ Y_1 &= -351361.1319 \\ Y &= -35501.5917 \end{aligned}$$

$$\begin{aligned} Y_2 &= -351041.16219 \\ Y_1 &= -351361.1319 \\ \Delta Y &= +2131.0328 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.191210210151 \textcircled{1} \\ \text{Sin} \alpha &= +0.13111413161 \textcircled{2} \\ \text{Cos} \beta &= +0.13199110171 \textcircled{3} \\ \text{Sin} \beta &= +0.19211116171 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.1991919191 \textcircled{5} \end{aligned}$$

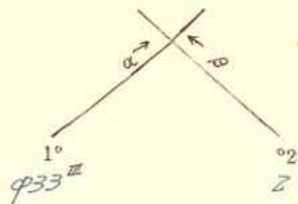
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +1221.12261 \\ \Delta X \times \textcircled{2} &= 01221.76695 \\ F &= 129.90146 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 129.9016$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +1191.420 \\ X_2 &= -644161.17105 \\ X &= -64391.125 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= +1151.968 \\ Y_2 &= -351041.16219 \\ Y &= -35501.5917 \end{aligned}$$

算出点 6



$$\begin{aligned} \frac{2}{933} X_2 &= -6131951.1891 \\ \frac{933}{2} X_1 &= -6161651.17518 \\ \Delta X &= -216191.1767 \end{aligned}$$

$$\begin{aligned} \alpha &= 126^\circ - 57' - 22'' \\ \beta &= 167^\circ - 05' - 50'' \\ \beta - \alpha &= 190^\circ - 08' - 28'' \end{aligned}$$

$$\begin{aligned} Y_2 &= -351711.16190 \\ Y_1 &= -351361.121910 \\ \Delta Y &= -21241.1600 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= 2 \cdot 1912101010101010 \text{ ①} \\ \text{Sin } \alpha &= 7 \cdot 1911111111111111 \text{ ②} \\ \text{Cos } \beta &= + \cdot 131819116191 \text{ ③} \\ \text{Sin } \beta &= + \cdot 191211116171 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= - \cdot 19191919191 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 011191.1572956 \\ \Delta X \times \text{④} &= 01611.1767106 \\ E &= 1151.1619150 \end{aligned}$$

$$S_1 = \frac{|E|}{\text{⑤}} = 1511.1619177$$

$$\begin{aligned} S_1 \times \text{①} &= 9111101.13129 \\ X_1 &= -6161651.17518 (+) \\ X &= -6161651.17518 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +11111.16191 \\ Y_1 &= -351361.121910 (+) \\ Y &= -351361.12191 \end{aligned}$$

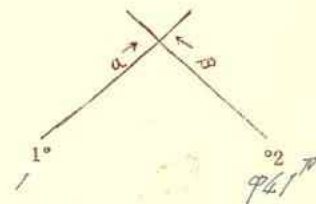
$$\begin{aligned} \Delta Y \times \text{①} &= +1121.1619104 \\ \Delta X \times \text{②} &= 01111.1767106 \\ F &= 1111.1619104 \end{aligned}$$

$$S_2 = \frac{|F|}{\text{⑤}} = 1111.1619104$$

$$\begin{aligned} S_2 \times \text{③} &= +11111.16191 \\ X_2 &= -6131951.1891 (+) \\ X &= -6131951.1891 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= +11111.16191 \\ Y_2 &= -351711.16190 (+) \\ Y &= -351711.16190 \end{aligned}$$

算出点 7



$$\begin{aligned} \frac{941}{1} X_2 &= -6131741.10513 \\ X_1 &= -6131571.1891 \\ \Delta X &= -11761.1861 \end{aligned}$$

$$\begin{aligned} \alpha &= 167^\circ - 05' - 50'' \\ \beta &= 138^\circ - 46' - 28'' \\ \beta - \alpha &= 257^\circ - 46' - 12'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +1111.1619104 \\ \Delta X \times \text{④} &= 01111.1767106 \\ E &= 1111.1619104 \end{aligned}$$

$$S_1 = \frac{|E|}{\text{⑤}} = 1111.1619104$$

$$\begin{aligned} S_1 \times \text{①} &= +11111.16191 \\ X_1 &= -6131571.1891 (+) \\ X &= -6131571.1891 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +11111.16191 \\ Y_1 &= -351361.121910 (+) \\ Y &= -351361.12191 \end{aligned}$$

$$\begin{aligned} Y_2 &= -3518101.16110 \\ Y_1 &= -3512491.10812 \\ \Delta Y &= -1151.16191 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= + \cdot 131819116191 \text{ ①} \\ \text{Sin } \alpha &= + \cdot 191211116171 \text{ ②} \\ \text{Cos } \beta &= + \cdot 181116181111 \text{ ③} \\ \text{Sin } \beta &= 9 \cdot 151716181051 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= - \cdot 191716191131 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +1111.1619104 \\ \Delta X \times \text{②} &= +1111.1619104 \\ F &= 1111.1619104 \end{aligned}$$

$$S_2 = \frac{|F|}{\text{⑤}} = 1111.1619104$$

$$\begin{aligned} S_2 \times \text{③} &= +11111.16191 \\ X_2 &= -6131741.10513 (+) \\ X &= -6131741.10513 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 9111101.13129 \\ Y_2 &= -3518101.16110 (+) \\ Y &= -3518101.16110 \end{aligned}$$

22ブロック～25ブロック迄

変更除外のためなし



## 各筆面積計算集計表

ブロック 番号	各筆確定				備考	各筆 番号	各筆確定				備考		
	各筆 番号	面 m <sup>2</sup>	積 坪				面 m <sup>2</sup>	積 坪					
76	334	314 621	95 17		✓								
	335	160 387	48 50		✓								
	335	737 178	223 00		✓								
	367	2271 502	687 13		✓								
	117B	4853 924	1468 31		✓								
						計							
						m <sup>2</sup>				坪			
						ブロック計算= 8,337.496				ブロック計算= 2,522.09			
						各筆集計= 8,337.559(-				各筆集計= 2,522.11(-			
						ε = .063				ε = .12			

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
26	2	6346.861	-	⊖ 25.337	3562.205	-	⊖ 3.275				
筆番号	3	6361.317	-	⊖ 3.575	3576.491	-	⊖ 25.297				
124	6	6350.436	-	↑ 25.337	3587.508	-	↑ 3.275				
	8	6335.980	-	↑ 3.575	3573.216	-	↑ 25.297				

控除シタル値

X=於テ 6.330

y=於テ 3.560

$\Sigma = 218.204 \quad 247.446 \quad 744.665 \quad 114.823$

$2S = 629.242 \quad 629.242$

$S = 314.621$

年 月 日

95.17 ㊦

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
26	3	6361.317	-	⊖ 16.278	3576.491	-	↑ 5.678				
筆番号	4	6366.714	-	⊖ 5.254	3581.824	-	⊖ 10.231				
124	4	6366.571	-	↑ 4.934	3586.822	-	⊖ 9.238				
	5	6341.760	-	↑ 8.596	3591.062	-	⊖ 8.129				
	6	6357.975	-	↑ 11.324	3594.951	-	↑ 3.560				
	6	6350.436	-	⊖ 3.342	3587.508	-	↑ 18.460				

控除シタル値

X=於テ 6.350

y=於テ 3.590

$\Sigma = 100.698 \quad 421.352 \quad 546.930 \quad 226.275$

$2S = 320.654 \quad 320.655$

$S = 160.327$

年 月 日

95.50 ㊦

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)			
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-		
26 筆番号 103	1	6272.133	-	+	6280.2825.088	-	+	6.150	320.818	,	5339.598	,	
	945 <sup>1</sup>	6223.671	+	+	48.199	3595.428	-	+	34.615	129.072	,	2670.610	,
	945 <sup>2A</sup>	6223.934	-	0	16.404	3590.409	-	+	17.248	70.214	,	826.909	,
	9158	6240.075	-	0	99.061	3577.560	-	+	47.881	961.211	,	3720.731	,
	940 <sup>1</sup>	6322.995	-	0	87.829	3542.528	-	+	34.088	3510.894	,	222.032	,
	940 <sup>1B</sup>	6327.904	-	0	23.864	3542.472	-	0	19.677	2.122.227	,	82.863	,
	6	6346.861	-	0	8.076	3562.205	-	0	29.744	2.773.354	,	179.328	,
	8	6335.980	-	+	7.921	3573.216	-	0	13.934	1.616.181	263.104	,	,
	7	6338.940	-	+	16.206	3576.140	-	0	28.574	3.398.592	525.685	,	,

控除シタル値

X = 於テ

y = 於テ

$\Sigma =$

2S =

S =

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号	9	6319.774	-	+	33.779	3601.790	-	0	16.721	1.668.321	2087.204	,
	10	6365.161	-	+	33.302	3592.861	-	+	2.222	19.757	1.760.377	,
	11	6286.472	-	+	33.022	3601.538	-	0	32.163	2.137.939	2033.138	,
			-	-			-	-				,
			-	-			-	-				,
			-	-			-	-				,
			-	-			-	-				,
			-	-			-	-				,
			-	-			-	-				,
			-	-			-	-				,
			-	-			-	-				,

控除シタル値

X = 於テ

y = 於テ

6220

3540

$\Sigma =$

2S =

S =

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
26	筆番号 947 <sup>ア</sup>	6,314.452	-	+ 47.180	3,650.883	-	+ 24.686	2,825.362			7,118.660	
	1	6,272.133	-	+ 27.980	3,625.026	-	+ 49.325	3,557.960			3,498.178	
	11	6,286.472	-	⊖ 33.028	3,601.558	-	+ 32.163	2,781.199				3,354.258
	10	6,305.181	-	⊖ 54.698	3,592.861	-	⊖ 12.307		1,399.377			5,079.311
	5	6,341.170	-	⊖ 29.972	3,614.865	-	⊖ 30.959		4,370.482			3,442.734
	80	6,335.133	-	+ 21.857	3,623.820	-	⊖ 34.845		4,708.709	2,706.334		
	947 <sup>イ</sup>	6,319.313	-	+ 20.681	3,649.710	-	⊖ 27.063		3,228.968	3,096.153		

控除シタル値

X = 於テ 6200

y = 於テ 3500

$$\bar{x} = \frac{9164.571}{25} = 366.5828$$

$$\bar{y} = \frac{4543.015}{25} = 181.7206$$

$$S = 2271.508$$

687.13 坪 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)	+	-	+	-
26	筆番号 4	6,357.975	-	⊖ 12.977	3,594.951	-	⊖ 25.032		2,451.288		323.789
	98 <sup>ア</sup>	6,351.917	-	+ 14.955	3,601.173	-	⊖ 17.171		891.467	466.192	
	91 <sup>イ</sup>	6,343.020	-	+ 10.747	3,612.122	-	⊖ 13.692		589.030	458.685	
	5	6,341.170	-	+ 12.246	3,614.865	-	+ 10.332	2,825.368		1,042.932	
	9	6,319.974	-	+ 2.230	3,601.790	-	+ 18.725	765.748		70.892	
	7	6,338.940	-	+ 38.201	3,576.140	-	+ 6.839	266.311			234.554

控除シタル値

X = 於テ 6300

y = 於テ 3570

$$\bar{x} = \frac{1457.427}{25} = 58.29708$$

$$\bar{y} = \frac{1476.358}{25} = 59.05432$$

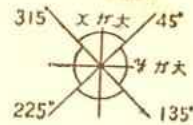
$$S = 737.179$$

223.00 坪 年 月 日

印

多角点計算用紙

測量No. \_\_\_\_\_

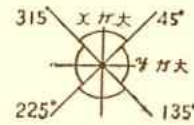


象 限	I	+	/	+	/
	II		/	+	/
	III		/	-	/
	IV	+	/	-	/

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	947 <sup>II</sup>											6317.469	3652.727	947 <sup>II</sup>
947 <sup>II</sup>	947 <sup>II</sup>			211 25 43	3.536							6314.452	3650.883	947 <sup>II</sup>
947 <sup>II</sup>		106.389		"	49.594							6272.133	3625.024	1
1	945 <sup>I</sup>			"	56.795							6223.671	3595.408	945 <sup>I</sup>
945 <sup>I</sup>	945 <sup>I</sup>			"	5.262							6219.181	3592.664	945 <sup>I</sup>
945 <sup>I</sup>	a159			336 41 53	5.231							6223.909	3590.429	a159
a159	945 <sup>I</sup>			321 28 42	0.032							6223.934	3590.409	945 <sup>I</sup>
945 <sup>I</sup>	a158			"	20.631							6240.075	3577.560	a158
0														
a158	940 <sup>II</sup>			337 05 50	90.017							6322.995	3542.528	940 <sup>II</sup>
940 <sup>II</sup>	940 <sup>II</sup>			"	3.007							6325.765	3541.358	940 <sup>II</sup>
940 <sup>II</sup>	940 <sup>II</sup>			44 39 37	3.007							6327.904	3543.472	940 <sup>II</sup>
940 <sup>II</sup>	2			"	26.651							6344.861	3542.205	2
2	3	54.563		"	20.324							6341.317	3576.491	3
3	941 <sup>III</sup>			"	7.528							6346.714	3581.824	941 <sup>III</sup>
941 <sup>III</sup>	941 <sup>III</sup>			"	3.664							6369.320	3584.600	941 <sup>III</sup>
941 <sup>III</sup>	941 <sup>III</sup>			138 36 47	3.664							6366.571	3586.822	941 <sup>III</sup>
941 <sup>III</sup>	P <sub>3</sub> '			"	6.413							6361.760	3591.062	P <sub>3</sub> '
P <sub>3</sub> '	4	14.110		134 13 22	5.428							6357.975	3594.958	4
4	P <sub>2</sub> '			"	8.682							6351.919	3601.173	P <sub>2</sub> '
P <sub>2</sub> '	P <sub>1</sub> '			129 06 24	14.109							6343.020	3612.122	P <sub>1</sub> '
P <sub>1</sub> '	5	14.108		123 58 59	3.308							6341.170	3616.865	5
5	BC'			"	10.800							6335.133	3623.820	BC'

多角点計算用紙

測量No. 2

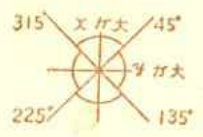


象	I	+	/	+	/
	II	/	-	+	/
限	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
BC'	947 <sup>W</sup>	" "		121° 25' 43"	30.341			.	.	.	.	6319.313	3669.710	947 <sup>W</sup>
947 <sup>W</sup>	947 <sup>W</sup>				3.536			.	.	.	.	6317.469	3657.727	947 <sup>W</sup>
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	
								.	.	.	.	.	.	

多角点計算用紙

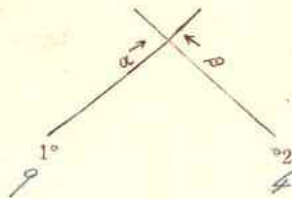
測量No.



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	
	947 <sup>II</sup>											6317.469	3652.727	947 <sup>II</sup>
947 <sup>I</sup>	1			211 25 43	53.130	521423	853298	45.336		27.703		6272.133	3625.026	1
1	11			301 25 43	27.500	"	"	14.339		23.466		6286.472	3601.558	11
	BC'											6335.133	3623.820	BC'
BC'	5			303 58 59	10.800	558952	829200	6.037		8.955		6341.170	3614.865	5
5	10			211 25 43	42.200	521423	853298	36.009		22.004		6305.161	3592.861	10
	941 <sup>I</sup>											6369.320	3584.400	941 <sup>III</sup>
941 <sup>I</sup>	2			224 39 37	31.576	702912	711277	22.459		22.195		6346.861	3563.205	2
2	8			134 39 37	15.480	"	"	10.881	11.011			6335.980	3573.216	8
2	3			44 39 37	20.324	"	"	14.456	14.286			6361.317	3576.491	3
3	6			134 39 37	15.480	"	"	10.881	11.011			6350.436	3587.502	6
	5											6341.170	3614.865	5
5	9			211 25 43	25.075	521423	853298	21.396		13.075		6319.772	3601.790	9
	7													
	6													
	7													
	3													
	945 <sup>I</sup>													

算出点 7



$X_2 = -63571.1975$   
 $X_1 = -63191.774$   
 $\Delta X = -1178.807$

$\alpha = 126^\circ - 46' - 08''$   
 $\beta = 224^\circ - 19' - 12''$   
 $\beta - \alpha = 127^\circ - 53' - 30''$

$\Delta Y \times \textcircled{3} = 7116.86428$   
 $\Delta X \times \textcircled{4} = 91861.85194$   
 $E = 127.10196$

$S_1 = \frac{E}{\textcircled{5}} = 127.10196$

$S_1 \times \textcircled{1} = 1119.166$   
 $X_1 = -63191.774$   
 $X = -63308.940$

$S_1 \times \textcircled{2} = 4125.650$   
 $Y_1 = -218101.790$   
 $Y = -21765.140$

$Y_2 = -215941.1957$   
 $Y_1 = -218101.790$   
 $\Delta Y = -215.594$

$\text{Cos}\alpha = 7.1598585 \textcircled{1}$   
 $\text{Sin}\alpha = 9.18017058 \textcircled{2}$   
 $\text{Cos}\beta = 9.1721777 \textcircled{3}$   
 $\text{sin}\beta = 9.1702918 \textcircled{4}$   
 $\text{Sin}(\beta - \alpha) = -0.1990529 \textcircled{5}$

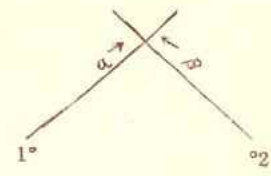
$\Delta Y \times \textcircled{1} = 0114.09072$   
 $\Delta X \times \textcircled{2} = 0190.60125$   
 $F = 126.15259$

$S_2 = \frac{F}{\textcircled{5}} = 126.15259$

$S_2 \times \textcircled{3} = 1119.166$   
 $X_2 = -63571.1975$   
 $X = -63308.940$

$S_2 \times \textcircled{4} = 0114.091$   
 $Y_2 = -215941.1957$   
 $Y = -21765.140$

算出点



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

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

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

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

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

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

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

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

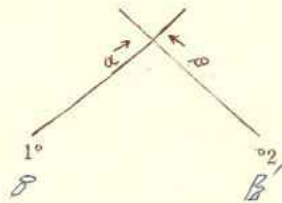
$\Delta Y \times \textcircled{1} = -$   
 $\Delta X \times \textcircled{2} = -$   
 $F =$

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

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

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

算出点  $\alpha$



$$\begin{aligned} X_2 &= - 63511.1919 \\ X_1 &= - 63511.1919 \\ \Delta X &= - 111.0000 \end{aligned}$$

$$\begin{aligned} \alpha &= 144^\circ - 13^\circ - 13'' \\ \beta &= 134^\circ - 13^\circ - 13'' \\ \beta - \alpha &= 11^\circ - 53' - 54'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + 1119.49958 \\ \Delta X \times \textcircled{4} &= - 1111.42188 \\ E &= 130.92146 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 130.92284$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 1111.895 \\ X_1 &= - 63511.1919 \\ X &= - 63511.1919 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + 1111.1735 \\ Y_1 &= - 31514.1916 \\ Y &= - 31514.1916 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 31611.11713 \\ Y_1 &= - 31514.1916 \\ \Delta Y &= - 1187.9257 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0.17111281710 \textcircled{1} \\ \text{Sin} \alpha &= + 0.17102191018 \textcircled{2} \\ \text{Cos} \beta &= + 0.181974848 \textcircled{3} \\ \text{sin} \beta &= 0.1716151916 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= - 0.1919191712 \textcircled{5} \end{aligned}$$

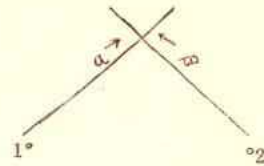
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 1119.82545 \\ \Delta X \times \textcircled{2} &= + 1111.82355 \\ F &= 118.68190 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 118.16822$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + 1116.0516 \\ X_2 &= - 63511.1919 \\ X &= - 63511.1919 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0.111612218 \\ Y_2 &= - 31611.11713 \\ Y &= - 31514.1916 \end{aligned}$$

算出点



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

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

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

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

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

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

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

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

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

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

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

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

10 X<sub>2</sub> = 16121051.1161

11 X<sub>1</sub> = 16121051.1161

ΔX = - - - 111181.16189

LogΔy |. | | | | | | |

LogΔX |. | | | | | | |

- )

LogtanB<sub>0</sub> |. | 461513153 |

B 121° - 57' - 18"

LogΔy |. | | | | | | |

LogsinB |. | | | | | | |

- )

Log D |. | 46119016 |

Δx<sub>2</sub> = | | | | | | | |

Δy<sub>2</sub> = | | | | | | | |

+ )

D<sub>2</sub> = | 1210.16116.1 |

D = | 1210.16116.1 |

Y<sub>2</sub> = 17151917.18161

Y<sub>1</sub> = 17151917.18161

ΔY = - - - 111181.16197

Log Δ X |. | | | | | | |

Logcos B |. | | | | | | |

- )

Log D |. | 1910161019 |

距離 = 1201K1613

方位角a = 83° 5' - 02' - 42'

ΔX	ΔY	B, 在 a 象限	Xヲ出スニハ
+	+	I	B
-	+	II	180° - B
-	-	III	180° + B
+	-	IV	360° - B

7 X<sub>2</sub> = 16121051.1161

9 X<sub>1</sub> = 16121051.1161

ΔX = - - - 111181.16166

LogΔy |. | | | | | | |

LogΔX |. | | | | | | |

- )

LogtanB<sub>1</sub> |. | 1310307 |

B 131° - 13' - 57"

LogΔy |. | | | | | | |

LogsinB |. | | | | | | |

- )

Log D |. | 1310307 |

Δx<sub>2</sub> = | | | | | | | |

Δy<sub>2</sub> = | | | | | | | |

+ )

D<sub>2</sub> = | 131.0307 |

D = | 131.0307 |

Y<sub>2</sub> = 17151917.18161

Y<sub>1</sub> = 17151917.18161

ΔY = - - - 111181.16197

Log Δ X |. | | | | | | |

Logcos B |. | | | | | | |

- )

Log D |. | 1310307 |

距離 = 131K0307

方位角a = 131° - 13' - 57"

X<sub>2</sub> = | | | | | | | |

X<sub>1</sub> = | | | | | | | |

- )

Δ X = - - - | | | | | | | |

Y<sub>2</sub> = | | | | | | | |

Y<sub>1</sub> = | | | | | | | |

- )

Δ y = - - - | | | | | | | |

LogΔy |. | | | | | | |

LogΔX |. | | | | | | |

- )

LogtanB |. | | | | | | |

B | | | ° - | | - | "

LogΔ y |. | | | | | | | |

LogsinB |. | | | | | | | |

- )

Log D |. | | | | | | | |

Δx<sub>2</sub> = | | | | | | | |

Δy<sub>2</sub> = | | | | | | | |

+ )

D<sub>2</sub> = | | | | | | | |

D = | | | | | | | |

Log Δ X |. | | | | | | | |

Logcos B |. | | | | | | | |

- )

Log D |. | | | | | | | |

距離 = | | | | | | | |

方位角a = | | | ° - | | - | "

X<sub>2</sub> = | | | | | | | |

X<sub>1</sub> = | | | | | | | |

- )

Δ X = - - - | | | | | | | |

Y<sub>2</sub> = | | | | | | | |

Y<sub>1</sub> = | | | | | | | |

- )

Δ y = - - - | | | | | | | |

LogΔy |. | | | | | | | |

LogΔX |. | | | | | | | |

- )

LogtanB |. | | | | | | | |

B | | | ° - | | - | "

LogΔ y |. | | | | | | | |

LogsinB |. | | | | | | | |

- )

Log D |. | | | | | | | |

Δx<sub>2</sub> = | | | | | | | |

Δy<sub>2</sub> = | | | | | | | |

+ )

D<sub>2</sub> = | | | | | | | |

D = | | | | | | | |

Log Δ X |. | | | | | | | |

Logcos B |. | | | | | | | |

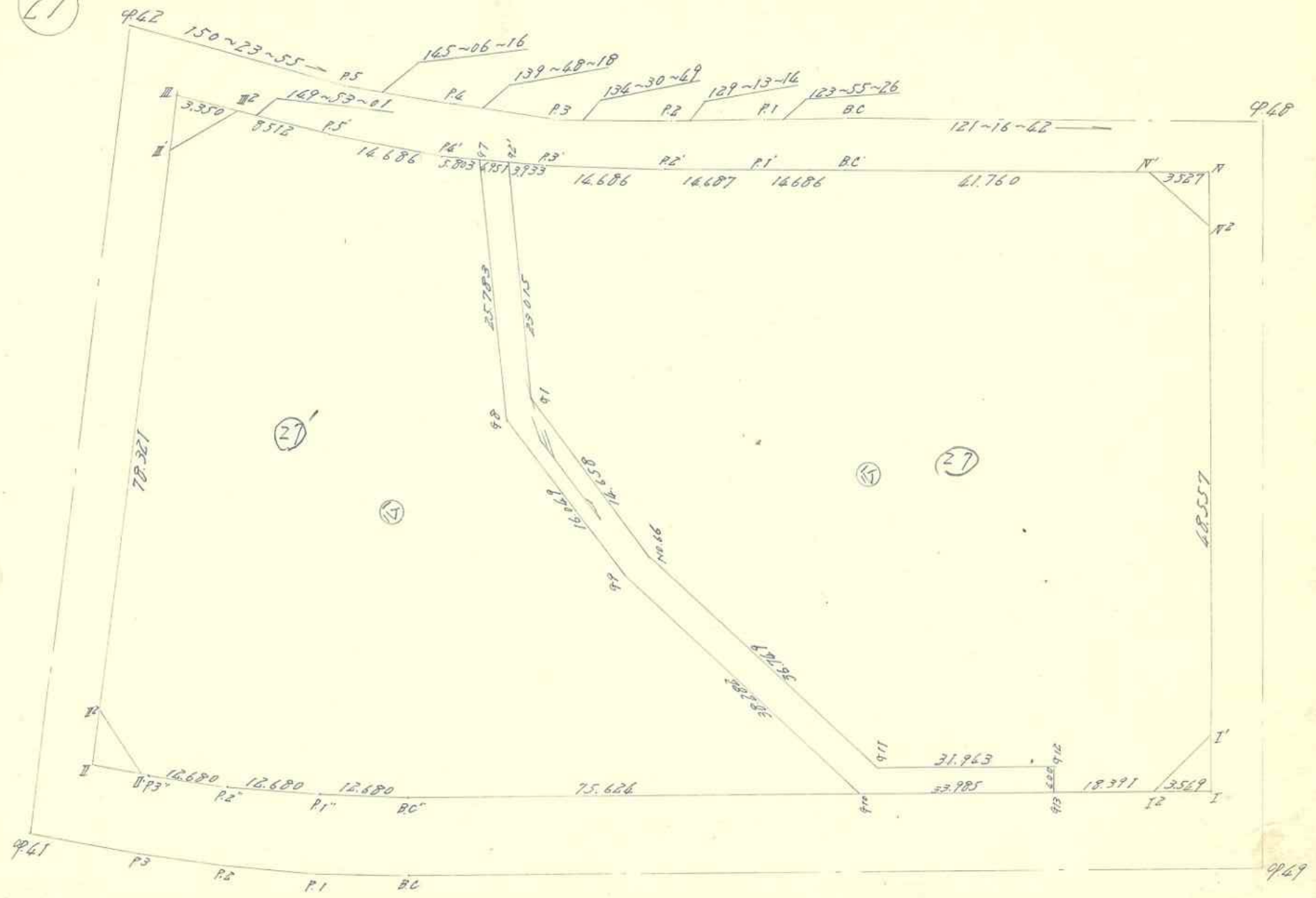
- )

Log D |. | | | | | | | |

距離 = | | | | | | | |

方位角a = | | | ° - | | - | "

27



## 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 積		坪			面 積	面 積		坪	
		m <sup>2</sup>		坪			m <sup>2</sup>		坪		
27	㊟	9,586	039	2,899	78	✓					
	㊠	424	665	128	40	(-)					
	㊡	9,161	574	2,771	38	U	27	27			
						計					
							m <sup>2</sup>			坪	
		ブロック計算 =		9,161	574			ブロック計算 =		2,771	38
		各筆集計 =		9,161	574	(-)		各筆集計 =		2,771	38
		ε =			.000			ε =			.00

協和建設測量

ブロック面積  
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	CP49 <sup>I</sup>	6282, 043	-	⊖ 65,552	3741, 395	-	+114,078	9359, 301	,	,	9268, 070
	B.C"	6348, 786	-	⊖ 73,831	3632, 163	-	+119,736	17815, 040	,	,	2374, 626
	P <sub>1</sub> "	6355, 874	-	⊖ 15,086	3621, 649	-	+20,353	3172, 504	,	,	326, 597
	P <sub>2</sub> "	6363, 872	-	⊖ 16,842	3611, 810	-	+18,926	3101, 441	,	,	198, 904
	P <sub>3</sub> "	6372, 716	-	⊖ 11,255	3602, 723	-	+11,236	1940, 637	,	,	30, 647
	CP41 <sup>I</sup>	6325, 127	-	⊖ 7,296	3600, 574	-	+1,080	189, 137	,	,	4, 188
	CP41 <sup>I</sup>	6380, 012	-	⊖ 76,230	3601, 643	-	⊖ 76,844	,	13,112, 794	,	59, 526
	CP42 <sup>I</sup>	6411, 357	-	⊖ 29,787	3673, 418	-	⊖ 76,526	,	16,174, 306	,	2186, 902
	CP42 <sup>I</sup>	6409, 799	-	+ 8,921	3678, 169	-	⊖ 9,022	,	1,892, 807	687, 346	,

控除シタル値

X = 於テ

y = 於テ

Σ =

ΣS =

S =

年 月 日

印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号	P <sub>5</sub>	6402, 436	-	+19,408	3682, 440	-	⊖ 12,672	,	2565, 471	1399, 996	,
	P <sub>4</sub>	6390, 391	-	+23,264	3690, 842	-	⊖ 17,880	,	3404, 191	2113, 348	,
	P <sub>3</sub>	6379, 172	-	+21,515	3700, 320	-	⊖ 18,951	,	3574, 661	2130, 385	,
	P <sub>2</sub>	6368, 876	-	+19,583	3710, 793	-	⊖ 21,851	,	3690, 109	2169, 659	,
	P <sub>1</sub>	6359, 589	-	+17,483	3722, 171	-	⊖ 23,564	,	3760, 555	2135, 916	,
	B.C'	6351, 393	-	+29,877	3734, 357	-	⊖ 47,877	,	7248, 243	4014, 184	,
	CP48 <sup>IV</sup>	6329, 712	-	+26,535	3770, 048	-	⊖ 36,889	,	4784, 946	4512, 224	,
	CP48 <sup>IV</sup>	6324, 858	-	+46,478	3771, 246	-	+23,807	2972, 494	,	7959, 172	,
	CP49 <sup>I</sup>	6283, 234	-	+42,815	3746, 241	-	+28,861	2485, 450	,	6261, 308	,

控除シタル値

X = 於テ 6.200.

y = 於テ 3.600.

Σ =

ΣS =

S =

年 月 日

印

2899.78 ±

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
27 筆番号 水路	92	6382, 176	-	+25, 080	3697, 782	-	+5, 054	920, 718			2458, 373	
	91	6360, 603	-	+36, 157	3689, 764	-	+9, 492	1524, 444			3245, 597	
	N066	6346, 019	-	+49, 328	3688, 290	-	0	10, 497		1532, 761	4355, 169	
	911	6311, 275	-	+51, 400	3700, 261	-	0	39, 227		4364, 984	5153, 415	
	912	6294, 619	-	+19, 644	3727, 517	-	0	25, 430		2406, 161	2504, 944	
	913	6291, 631	-	0	14, 734	3725, 691	-	+30, 824				1951, 935
	910	6309, 353	-	0	53, 916	3696, 693	-	+41, 469				5213, 300
	99	6345, 547	-	0	52, 162	3684, 222	-	+10, 857				4393, 788
	98	6361, 515	-	0	40, 136	3685, 936	-	0	10, 596		1711, 413	

控除シタル値

X = 於テ

y = 於テ

Σ =

2S =

S =

年 月 日

印

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)			
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-		
筆番号 ○	97	6385, 603	-	0	20, 661	3694, 918	-	0	11, 946		2218, 169		1959, 035
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,
		,	-	,	,	,	-	,	,		,		,

控除シタル値

X = 於テ 6,200

y = 於テ 3,600

Σ = 11384, 560 22233, 488 17711, 498 16862, 568

2S = 848, 928

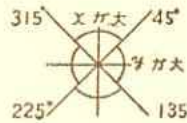
848, 930

S = 424, 465

128, 407

年 月 日

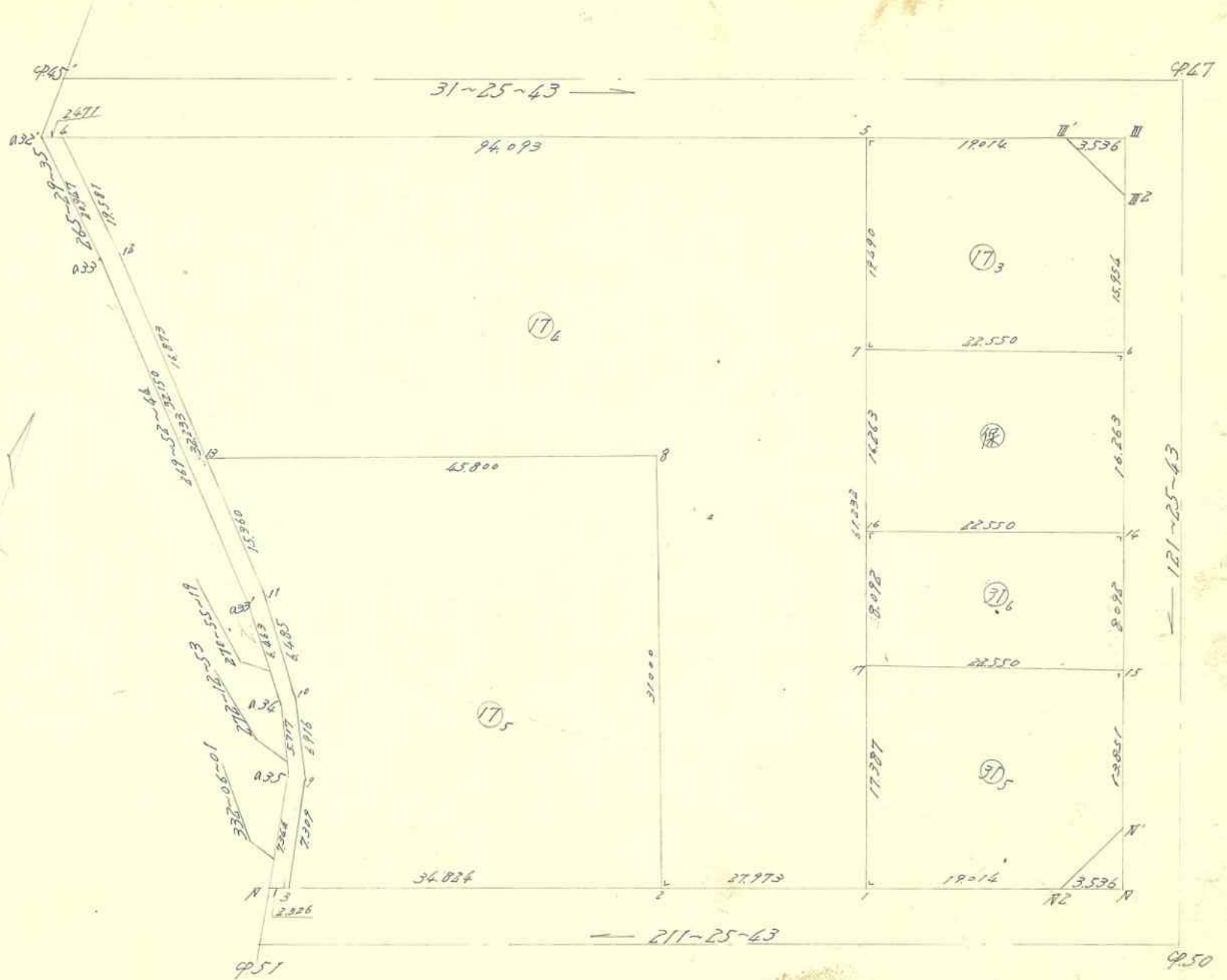
印



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	
	CP49 <sup>I</sup>											6280.192	3744.413	CP49 <sup>I</sup>
CP49 <sup>I</sup>	CP49 <sup>II</sup>			301 25 43	3.549							6282.043	3741.385	CP49 <sup>II</sup>
CP49 <sup>II</sup>	BC <sup>II</sup>			"	128.000							6348.786	3632.163	BC <sup>II</sup>
BC <sup>II</sup>	P1 <sup>II</sup>			303 58 59	12.680							6355.874	3621.649	P1 <sup>II</sup>
P1 <sup>II</sup>	P2 <sup>II</sup>			309 06 24	"							6363.872	3611.910	P2 <sup>II</sup>
P2 <sup>II</sup>	P3 <sup>II</sup>			314 13 32	"							6372.716	3602.723	P3 <sup>II</sup>
P3 <sup>II</sup>	CP41 <sup>II</sup>			318 17 27	3.230							6375.127	3600.574	CP41 <sup>II</sup>
CP41 <sup>II</sup>	CP41 <sup>III</sup>			"	4.259							6378.307	3597.740	CP41 <sup>III</sup>
CP41 <sup>III</sup>	CP41 <sup>IV</sup>			66 24 32	"							6380.012	3601.643	CP41 <sup>IV</sup>
CP41 <sup>IV</sup>	CP42 <sup>II</sup>			"	78.321							6411.357	3673.418	CP42 <sup>II</sup>
CP42 <sup>II</sup>	CP42 <sup>III</sup>			"	3.350							6412.697	3676.488	CP42 <sup>III</sup>
CP42 <sup>III</sup>	CP42 <sup>IV</sup>			149 53 01	"							6409.799	3678.169	CP42 <sup>IV</sup>
CP42 <sup>IV</sup>	P5 <sup>I</sup>			"	8.512							6402.436	3682.440	P5 <sup>I</sup>
P5 <sup>I</sup>	P4 <sup>I</sup>			145 06 16	14.686							6390.391	3690.842	P4 <sup>I</sup>
P4 <sup>I</sup>	P3 <sup>I</sup>			139 48 18	14.687							6379.172	3700.320	P3 <sup>I</sup>
P3 <sup>I</sup>	P2 <sup>I</sup>			134 30 49	14.686							6368.976	3710.793	P2 <sup>I</sup>
P2 <sup>I</sup>	P1 <sup>I</sup>			129 13 14	14.687							6359.589	3722.171	P1 <sup>I</sup>
P1 <sup>I</sup>	BC <sup>I</sup>			123 55 26	14.686							6351.393	3734.357	BC <sup>I</sup>
BC <sup>I</sup>	CP48 <sup>IV</sup>			121 16 42	41.760							6329.712	3770.048	CP48 <sup>IV</sup>
CP48 <sup>IV</sup>	CP48 <sup>III</sup>			"	3.527							6327.881	3773.062	CP48 <sup>III</sup>
CP48 <sup>III</sup>	CP48 <sup>II</sup>			210 59 43	"							6324.958	3771.246	CP48 <sup>II</sup>
CP48 <sup>II</sup>	CP49 <sup>I</sup>			"	48.557							6283.234	3746.241	CP49 <sup>I</sup>
CP49 <sup>I</sup>	CP49 <sup>I</sup>			"	3.549							6280.192	3744.413	CP49 <sup>I</sup>

78



# 各筆面積計算集計表

ブロック 番号	各筆確定				備考	各筆番号	各筆確定		備考
	各筆 番号	面 m <sup>2</sup>	積 坪				面 m <sup>2</sup>	積 坪	
28	㊶	433	273	131	06	✓			
	㊷	366	729	110	94	✓			
	㊸	3,392	018	1,026	08	✓			
	㊹	1,153	809	349	03	✓			
	㊺	145	193	43	92	トコ7外=7			
	㊻	182	472	55	20	✓			
	㊼	385	826	116	71	✓			
	計								
m <sup>2</sup>						坪			
ブロック計算 = 5,914.156.						ブロック計算 = 1,789.03.			
各筆集計 = 5,914.128 (-						各筆集計 = 1,789.02 (-			
Σ = .028						Σ = .01			

協和建設測量

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
28	951 <sup>W</sup>	6207.601	-	94.505	3664.380	-	14.649	35.337			335.082
筆番号	a35	6214.091	-	6.711	3660.944	-	+9.149	128.919			476.105
(*)	a34	6214.312	-	0.325	3655.231	-	+12.175	174.249			21.200
	a33'	6214.416	-	0.103	3648.769	-	+38.612	556.631			72.116
	a33	6214.348	-	+1.714	3616.619	-	+53.632	760.903		45.625	
	a32'	6212.702	-	0.367	3595.737	-	+19.592	248.883			72.650
	4	6214.810	-	93.647	3597.025	-	020.808	308.166			25.620
	12	6216.349	-	91.607	3616.545	-	251.754	846.126			42.657
	11	6216.417	-	-0.037	3648.779	-	038.717	635.617		72.775	

控除シタル値

X = 於テ

y = 於テ

ΣS =

S =

年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号	10	6216.312	-	+3.728	3655.262	-	913.394		218.483	26.277	
○	9	6216.045	-	+6.726	3662.173	-	010.331		165.761	485.636	
	3	6209.586	-	+8.444	3665.593	-	92.207		21.156	638.397	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 6200

y = 於テ 3590

Σ = 17904.922 2195309 1195820 905.430

ΣS =

S =

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)	+	-	+	-
28											
筆番号	6	6,304.178	-	+ 27.561	3,674.478	-	9 1.856		100,554	2,052.688	
①	7	6,284.936	-	+ 9.079	3,662.720	-	+ 28.390	991,833		569,435	
	5	6,295.099	-	9 26.388	3,646.088	-	+ 6.717	302,930			1,216,170
947		6,311.324	-	9 17.398	3,656.003	-	9 14.776		906,123		974,340
947		6,312.497	-	+ 7.146	3,660.864	-	9 18.475		1,154,632	434,934	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 6,250

y = 於テ 3,600

$$\bar{z} = \frac{1,294,763}{2S} = \frac{2,161,309}{866,546} = \frac{3,057,057}{866,547} = \frac{2,190,510}{433,273} = 131.06\%$$

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)	+	-	+	-
28											
筆番号	914	6,295.698	-	+ 27.722	3,688.355	-	9 2.119		96,834	1,063,277	
①	16	6,276.456	-	+ 10.762	3,676.597	-	+ 25.635	678,200		286,237	1,267,895
	7	6,284.936	-	9 27.722	3,662.720	-	+ 2.119	274,029			358,624
	6	6,304.178	-	9 10.762	3,674.478	-	9 25.635		1,388,853	16,145	263,432
			-			-				1,216,589	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 6,250

y = 於テ 3,650

$$\bar{z} = \frac{7,922,229}{2S} = \frac{1,485,687}{732,458} = \frac{1,349,516}{732,458} = \frac{616,056}{366,729} = 110.94\%$$

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)	+	-	+	-
28 筆番号 ㊦	15	6291.479	-	↑ 23.461	3695.260	-	↑ 4.853	106.238		592.625	
	17	6272.237	-	↑ 15.023	3683.508	-	↑ 18.663	41.749		802.841	
	16	6276.456	-	⊙ 23.461	3676.597	-	⊙ 4.853		31.331		154.772
	14	6295.698	-	⊙ 15.023	3688.355	-	⊙ 18.663		479.602		275.747

控除シタル値

X = 於テ 6.270

y = 於テ 3.670

$$\bar{X} = \frac{145.987}{28} = 5.214$$

$$2S = \frac{366.946}{28} = 13.105$$

$$S = 182.473$$

年 月 日

55.20 ㊦

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 ㊦	950	6279.395	-	↑ 121.086	3708.252	-	↑ 8.742	169.551		595.722	
	1	6263.170	-	↑ 7.158	3698.337	-	↑ 24.750	78.458		131.256	
	17	6272.237	-	⊙ 28.309	3683.502	-	↑ 3.077	37.653			99.138
	15	6291.479	-	⊙ 12.019	3695.260	-	⊙ 23.577		742.180		1783.410
	950	6284.256	-	↑ 12.086	3707.079	-	⊙ 12.992		315.134	327.223	

控除シタル値

X = 於テ 6.260

y = 於テ 3.680

$$\bar{X} = \frac{285.662}{28} = 10.202$$

$$2S = \frac{1771.653}{28} = 63.273$$

$$S = 385.826$$

年 月 日

116.71 ㊦

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)	+	-	+	-
28	1	6263.170	-	+55.798	3698.337	-	937.663				
筆番号	2	6239.301	-	+7.705	3683.751	-	+41.038	1612.834		702.351	
①	8	6255.465	-	+22.916	3657.299	-	+50.334	2791.775		1542.284	
	13	6216.385	-	+39.116	3633.417	-	+40.754	667.754		1698.299	
	12	6216.349	-	+1.575	3616.545	-	+36.392	594.973		41.808	
	4	6214.810	-	⊖78.750	3597.025	-	⊖29.543		437.532		553.219
	5	6295.099	-	⊖48.360	3646.088	-	⊖101.312		9634.670		2712.416

控除シタル値

X = 於テ 6200

y = 於テ 3590

$$\bar{Z} = \frac{5667.336}{25} = 226.69344$$

$$2S = \frac{12451.374}{25} = 498.05496$$

$$S = \frac{8784.035}{25} = 351.3614$$

1026.08<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)	+	-	+	-
28	2	6239.301	-	+45.879	3683.751	-	⊖8.294			325.962	3842.412
筆番号	3	6209.586	-	+23.256	3665.593	-	+21.578	206.847		1525.431	
②	9	6216.045	-	⊖6.726	3662.173	-	+10.331	165.761			418.176
	10	6216.312	-	⊖.372	3655.262	-	+13.394	218.483			20.557
	11	6216.417	-	⊖.073	3648.779	-	+21.845	358.629			3.561
	12	6216.385	-	⊖39.048	3633.417	-	⊖8.520		139.600		1304.867
	8	6255.465	-	⊖22.916	3657.299	-	⊖50.334		2791.775		1313.066

控除シタル値

X = 於テ 6200

y = 於テ 3600

$$\bar{Z} = \frac{949.720}{25} = 37.9888$$

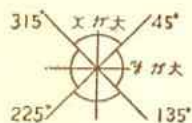
$$2S = \frac{3257.337}{25} = 130.29348$$

$$S = \frac{2307.617}{25} = 92.30468$$

349.03<sup>27</sup> 年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



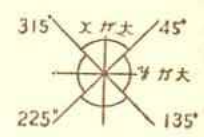
象 限	I	+	+	+	+
	II	-	+	-	+
	III	-	-	-	-
	IV	+	-	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	950 <sup>N</sup>				.			.	.	.	.	6282.412	3710.096	950 <sup>N</sup>
950 <sup>N</sup>	950 <sup>N</sup>			211 25 43	3.536	521423	853298	.	.	.	.	6279.395	3708.252	950 <sup>N</sup>
950 <sup>N</sup>	1			"	19.014	"	"	.	.	.	.	6263.170	3698.337	1
1	2	84.137		"	27.973	"	"	.	.	.	.	6239.301	3683.751	2
2	3	"		"	34.826	"	"	.	.	.	.	6209.586	3665.593	3
3	951 <sup>N</sup>	"		"	2.326	"	"	.	.	.	.	6207.601	3664.380	951 <sup>N</sup>
951 <sup>N</sup>	235			332 06 01	7.344	467930	883766	.	.	.	.	6214.091	3660.944	235
235	234			272 12 53	5.717	238630	999254	.	.	.	.	6214.312	3655.231	234
234	233'			270 55 19	6.463	016095	999870	.	.	.	.	6214.416	3648.769	233'
233'	233			269 52 44	32.150	002133	999998	.	.	.	.	6214.348	3616.619	233
233	232'			265 29 35	20.947	078556	996910	.	.	.	.	6212.702	3595.737	232'
232'	4			31 25 43	2.671	521423	853298	.	.	.	.	6214.810	3597.025	4
4	5	115.578		"	94.093	"	"	.	.	.	.	6295.099	3646.088	5
5	947 <sup>N</sup>			"	19.014	"	"	.	.	.	.	6311.324	3656.003	947 <sup>N</sup>
947 <sup>N</sup>	947 <sup>N</sup>			"	3.536	"	"	.	.	.	.	6314.341	3657.847	947 <sup>N</sup>
947 <sup>N</sup>	947 <sup>N</sup>			121 25 43	3.536	"	"	.	.	.	.	6312.497	3660.864	947 <sup>N</sup>
947 <sup>N</sup>	6	54.180		"	15.954	"	"	.	.	.	.	6304.178	3674.478	6
6	14			"	76.263	"	"	.	.	.	.	6295.698	3688.355	14
14	15			"	8.092	"	"	.	.	.	.	6291.479	3695.260	15
15	950 <sup>N</sup>			"	13.851	"	"	.	.	.	.	6284.256	3707.079	950 <sup>N</sup>
950 <sup>N</sup>	950 <sup>N</sup>			"	3.536	"	"	.	.	.	.	6282.412	3710.096	950 <sup>N</sup>

協和建設測量

多角点計算用紙

測量No.



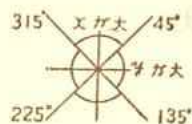
象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	a32'											6212.702	3595.737	a32'
a32'	a32' <sup>A</sup>			355 29 35	2.000	078556	996910	1.996			.157	6214.696	3595.580	a32' <sup>A</sup>
	a33											6214.348	3616.619	a33
a33	a33' <sup>A</sup>			89 52 46	20.00	002133	999998	.043		20.000		6214.391	3636.619	a33' <sup>A</sup>
a33' <sup>A</sup>	a33' <sup>B</sup>			359 52 46	2.000			2.000			.004	6216.391	3636.615	a33' <sup>B</sup>
	a33'											6214.416	3648.769	a33'
a33'	a33' <sup>A</sup>			90 55 19	4.000	016095	999870		.064	3.999		6214.352	3652.768	a33' <sup>A</sup>
a33' <sup>A</sup>	a33' <sup>B</sup>			55 19	2.000			2.000		.032		6216.352	3652.800	a33' <sup>B</sup>
	a34											6214.312	3655.231	a34
a34	a34'			92 12 53	2.500	038630	999254		.097	2.498		6214.215	3657.729	a34'
a34'	a34' <sup>2</sup>			2 12 53	2.000			1.999		.077		6216.214	3657.806	a34' <sup>2</sup>
	a35											6214.091	3660.944	a35
a35	a35'			152 06 07	10.000	467930	883766		8.838	4.679		6205.253	3665.623	a35'
a35'	a35' <sup>2</sup>			68 06 07	2.000			.936		1.768		6206.189	3667.391	a35' <sup>2</sup>

協和建設測量

多角点計算用紙

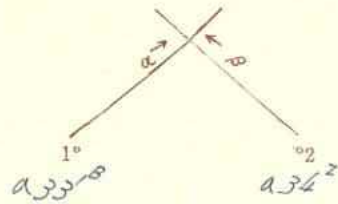
測量No. \_\_\_\_\_



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	
	951 <sup>W</sup>											6207.601	3664.380	951 <sup>W</sup>
951 <sup>W</sup>	2			31 25 43	37.150	521423	853298	31.700		19.371		6239.301	3683.751	2
2	8			301 25 43	31.000	"	"	16.164			26.452	6255.465	3657.299	8
"	1			31 25 43	27.973	"	"	23.869		14.586		6263.170	3698.337	1
	947 <sup>E</sup>											6314.341	3657.847	947 <sup>E</sup>
947 <sup>E</sup>	6			121 25 43	19.490	521423	853298		10.163	16.631		6304.178	3676.478	6
6	7			211 25 43	22.550	"	"		19.242		11.758	6286.936	3662.720	7
7	16			121 25 43	16.263	"	"		8.480	13.877		6276.456	3676.597	16
16	14			31 25 43	22.550	"	"		19.242		11.758	6295.698	3688.355	14
14	15			121 25 43	8.082	"	"		4.219	6.905		6291.479	3695.260	15
15	17			211 25 43	22.550	"	"		19.242		11.758	6276.237	3683.502	17
				121 25 43	17.387	"	"		9.066	14.826		6263.170	3698.337	1

算出点 10



$$\begin{aligned} a34^2 X_2 &= - 617161.01714 \\ a34^2 X_1 &= - 617161.01714 \\ \Delta X &= - 01111.01714 \end{aligned}$$

$$\alpha = 190^\circ - 51' - 19''$$

$$\beta = 272^\circ - 12' - 53''$$

$$\beta - \alpha = 181^\circ - 17' - 34''$$

$$\begin{aligned} \Delta Y \times ③ &= + 11111.01714 \\ \Delta X \times ④ &= + 11111.01714 \\ E &= 11111.01714 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1171.14617$$

$$\begin{aligned} S_1 \times ① &= 0 \quad 11111.01714 \\ X_1 &= - 617161.01714 (+) \\ X &= - 617161.01714 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= + \quad 11111.01714 \\ Y_1 &= - 617161.01714 (+) \\ Y &= - 617161.01714 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 617161.01714 \\ Y_1 &= - 617161.01714 \\ \Delta Y &= - 11111.01714 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0 \cdot 10171610101 \quad ① \\ \text{Sin} \alpha &= + \cdot 10171610101 \quad ② \\ \text{Cos} \beta &= + \cdot 10171610101 \quad ③ \\ \text{Sin} \beta &= 0 \cdot 10171610101 \quad ④ \\ \text{Sin}(\beta - \alpha) &= - \cdot 10171610101 \quad ⑤ \end{aligned}$$

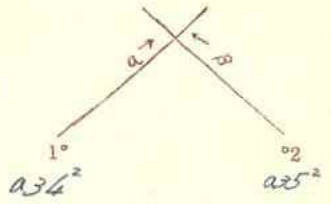
$$\begin{aligned} \Delta Y \times ① &= 0 \quad 11111.01714 \\ \Delta X \times ② &= 0 \quad 11111.01714 \\ F &= 11111.01714 \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1171.14617$$

$$\begin{aligned} S_2 \times ③ &= + \quad 11111.01714 \\ X_2 &= - 617161.01714 (+) \\ X &= - 617161.01714 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0 \quad 11111.01714 \\ Y_2 &= - 617161.01714 (+) \\ Y &= - 617161.01714 \end{aligned}$$

算出点 9



$$\begin{aligned} a35^2 X_2 &= - 617161.01714 \\ a34^2 X_1 &= - 617161.01714 \\ \Delta X &= - 01111.01714 \end{aligned}$$

$$\alpha = 192^\circ - 12' - 53''$$

$$\beta = 273^\circ - 06' - 08''$$

$$\beta - \alpha = 181^\circ - 53' - 10''$$

$$\begin{aligned} \Delta Y \times ③ &= + 11111.01714 \\ \Delta X \times ④ &= + 11111.01714 \\ E &= 11111.01714 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1171.14617$$

$$\begin{aligned} S_1 \times ① &= 0 \quad 11111.01714 \\ X_1 &= - 617161.01714 (+) \\ X &= - 617161.01714 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= + \quad 11111.01714 \\ Y_1 &= - 617161.01714 (+) \\ Y &= - 617161.01714 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 617161.01714 \\ Y_1 &= - 617161.01714 \\ \Delta Y &= - 11111.01714 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0 \cdot 10171610101 \quad ① \\ \text{Sin} \alpha &= + \cdot 10171610101 \quad ② \\ \text{Cos} \beta &= + \cdot 10171610101 \quad ③ \\ \text{Sin} \beta &= 0 \cdot 10171610101 \quad ④ \\ \text{Sin}(\beta - \alpha) &= - \cdot 10171610101 \quad ⑤ \end{aligned}$$

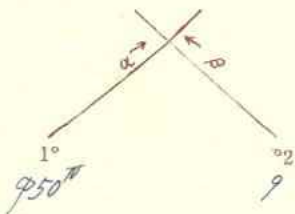
$$\begin{aligned} \Delta Y \times ① &= 0 \quad 11111.01714 \\ \Delta X \times ② &= 0 \quad 11111.01714 \\ F &= 11111.01714 \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1171.14617$$

$$\begin{aligned} S_2 \times ③ &= + \quad 11111.01714 \\ X_2 &= - 617161.01714 (+) \\ X &= - 617161.01714 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0 \quad 11111.01714 \\ Y_2 &= - 617161.01714 (+) \\ Y &= - 617161.01714 \end{aligned}$$

算出點 3



$$\begin{aligned} X_2 &= - 621161.10145 \\ X_1 &= - 621161.14112 \\ \Delta X &= - 116161.0367 \end{aligned}$$

$$\alpha = 121^\circ - 25' - 43''$$

$$\beta = 122^\circ - 06' - 07''$$

$$\beta - \alpha = 120^\circ - 40' - 18''$$

$$\begin{aligned} Y_2 &= - 316161.11713 \\ Y_1 &= - 3171101.10196 \\ \Delta Y &= - 114171.9843 \end{aligned}$$

$$\cos \alpha = 0.1811111111 \text{ ①}$$

$$\sin \alpha = 0.1811111111 \text{ ②}$$

$$\cos \beta = 0.1811111111 \text{ ③}$$

$$\sin \beta = + 0.1811111111 \text{ ④}$$

$$\sin(\beta - \alpha) = - 0.1811111111 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= + 111111.11111 \\ \Delta X \times \text{④} &= 91111.10111 \\ E &= 111111.11111 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 111111.11111$$

$$\begin{aligned} S_1 \times \text{①} &= 91111.11111 \\ X_1 &= - 621161.14112 \\ X &= - 621161.14112 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 91111.11111 \\ Y_1 &= - 3171101.10196 \\ Y &= - 3171101.10196 \end{aligned}$$

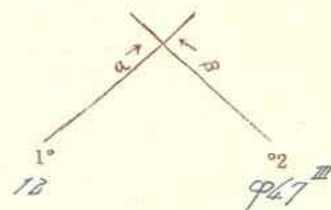
$$\begin{aligned} \Delta Y \times \text{①} &= - 111111.11111 \\ \Delta X \times \text{②} &= + 111111.11111 \\ F &= 111111.11111 \end{aligned}$$

$$S_2 = \frac{F}{\text{⑤}} = 111111.11111$$

$$\begin{aligned} S_2 \times \text{③} &= 91111.11111 \\ X_2 &= - 621161.10145 \\ X &= - 621161.10145 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= + 91111.11111 \\ Y_2 &= - 316161.11713 \\ Y &= - 316161.11713 \end{aligned}$$

算出點 4



$$\begin{aligned} X_2 &= - 621161.13141 \\ X_1 &= - 621161.13149 \\ \Delta X &= - 116161.0367 \end{aligned}$$

$$\alpha = 122^\circ - 29' - 35''$$

$$\beta = 121^\circ - 25' - 43''$$

$$\beta - \alpha = 120^\circ - 40' - 10''$$

$$\begin{aligned} Y_2 &= - 316161.18147 \\ Y_1 &= - 316161.15145 \\ \Delta Y &= - 116161.0367 \end{aligned}$$

$$\cos \alpha = 0.1811111111 \text{ ①}$$

$$\sin \alpha = 0.1811111111 \text{ ②}$$

$$\cos \beta = 0.1811111111 \text{ ③}$$

$$\sin \beta = 0.1811111111 \text{ ④}$$

$$\sin(\beta - \alpha) = - 0.1811111111 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 91111.11111 \\ \Delta X \times \text{④} &= 91111.10111 \\ E &= 111111.11111 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 111111.11111$$

$$\begin{aligned} S_1 \times \text{①} &= 91111.11111 \\ X_1 &= - 621161.13149 \\ X &= - 621161.13149 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 91111.11111 \\ Y_1 &= - 316161.15145 \\ Y &= - 316161.15145 \end{aligned}$$

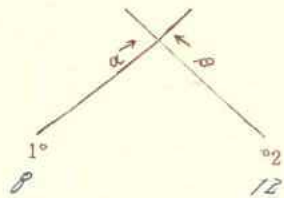
$$\begin{aligned} \Delta Y \times \text{①} &= 91111.11111 \\ \Delta X \times \text{②} &= 91111.10111 \\ F &= 111111.11111 \end{aligned}$$

$$S_2 = \frac{F}{\text{⑤}} = 111111.11111$$

$$\begin{aligned} S_2 \times \text{③} &= 91111.11111 \\ X_2 &= - 621161.13141 \\ X &= - 621161.13141 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 91111.11111 \\ Y_2 &= - 316161.18147 \\ Y &= - 316161.18147 \end{aligned}$$

算出点 73



$$\begin{aligned} 12 X_2 &= -62161.3149 \\ 8 X_1 &= -62551.4165 \\ \Delta X &= -2139.1016 \end{aligned}$$

$$\alpha = 121^\circ - 25' - 43''$$

$$\beta = 189^\circ - 52' - 44''$$

$$\beta - \alpha = 58^\circ - 27' - 01''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 9111.08815 \\ \Delta X \times \textcircled{4} &= 9139.17592 \\ E &= 139.08777 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 125.17996$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 0 \quad 139.10810 \\ X_1 &= -62551.4165 \\ X &= -62161.3149 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0 \quad 139.10810 \\ Y_1 &= -62551.4165 \\ Y &= -62161.3149 \end{aligned}$$

$$\begin{aligned} Y_2 &= -62161.3145 \\ Y_1 &= -62551.4169 \\ \Delta Y &= -390.1024 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.18536911 \quad \textcircled{1} \\ \text{Sin} \alpha &= 0.185116131 \quad \textcircled{2} \\ \text{Cos} \beta &= 0.101061174 \quad \textcircled{3} \\ \text{sin} \beta &= +0.999999981 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.185218161 \quad \textcircled{5} \end{aligned}$$

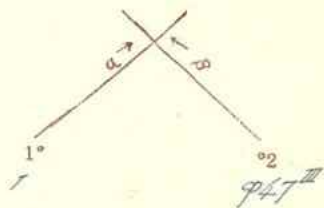
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +139.177502 \\ \Delta X \times \textcircled{2} &= +139.177502 \\ F &= 114.137853 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 161.08725$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +111.1036 \\ X_2 &= -62161.3149 \\ X &= -62161.3149 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= +111.1036 \\ Y_2 &= -62161.3145 \\ Y &= -62161.3149 \end{aligned}$$

算出点 5



$$\begin{aligned} 947 X_2 &= -62161.3149 \\ 1 X_1 &= -62161.3149 \\ \Delta X &= -1111.1010 \end{aligned}$$

$$\alpha = 121^\circ - 25' - 43''$$

$$\beta = 189^\circ - 52' - 44''$$

$$\beta - \alpha = 58^\circ - 27' - 01''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +139.177502 \\ \Delta X \times \textcircled{4} &= 0 \quad 139.177502 \\ E &= 161.08725 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 161.08725$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +111.1036 \\ X_1 &= -62161.3149 \\ X &= -62161.3149 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0 \quad 139.177502 \\ Y_1 &= -62161.3149 \\ Y &= -62161.3149 \end{aligned}$$

$$\begin{aligned} Y_2 &= -62161.3147 \\ Y_1 &= -62161.3147 \\ \Delta Y &= -0.0000 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.18536911 \quad \textcircled{1} \\ \text{Sin} \alpha &= 0.185116131 \quad \textcircled{2} \\ \text{Cos} \beta &= 0.101061174 \quad \textcircled{3} \\ \text{sin} \beta &= 0.999999981 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.185218161 \quad \textcircled{5} \end{aligned}$$

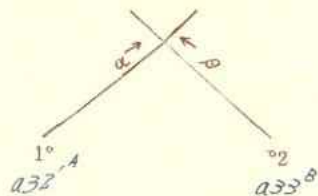
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 0 \quad 139.177502 \\ \Delta X \times \textcircled{2} &= 0 \quad 139.177502 \\ F &= 111.1036 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 161.08725$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0 \quad 111.1036 \\ X_2 &= -62161.3149 \\ X &= -62161.3149 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \quad 111.1036 \\ Y_2 &= -62161.3147 \\ Y &= -62161.3149 \end{aligned}$$

算出点 13



$$\begin{aligned} X_2 &= -621161.13197 \\ X_1 &= -621161.16196 \\ \Delta X &= -1111.016195 \end{aligned}$$

$$\alpha = 185^\circ - 29' - 35''$$

$$\beta = 126^\circ - 52' - 44''$$

$$\beta - \alpha = 126^\circ - 23' - 10''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 1111.1018175 \\ \Delta X \times \textcircled{4} &= 1111.1695100 \\ E &= 1111.1606925 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 1271.1013103$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 1111.16153 \\ X_1 &= -621161.16196 \\ X &= -621161.13197 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 1111.16153 \\ Y_1 &= -621161.16196 \\ Y &= -621161.13197 \end{aligned}$$

$$\begin{aligned} Y_2 &= -621161.16196 \\ Y_1 &= -621161.16196 \\ \Delta Y &= -1111.16196 \end{aligned}$$

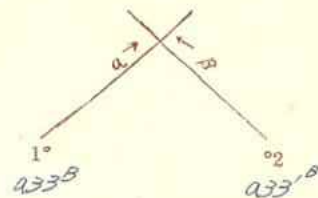
$$\begin{aligned} \text{Cos } \alpha &= 0.10178151810 \textcircled{1} \\ \text{Sin } \alpha &= +0.991619108 \textcircled{2} \\ \text{Cos } \beta &= 0.10101211141 \textcircled{3} \\ \text{Sin } \beta &= 0.991619108 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.10178151810 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 1111.1018175 \\ \Delta X \times \textcircled{2} &= 1111.1695100 \\ F &= 1111.1695100 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 1111.10142 \\ X_2 &= -621161.13197 \\ X &= -621161.13197 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 1111.10142 \\ Y_2 &= -621161.16196 \\ Y &= -621161.13197 \end{aligned}$$

算出点 11



$$\begin{aligned} X_2 &= -621161.13197 \\ X_1 &= -621161.13197 \\ \Delta X &= -1111.1013103 \end{aligned}$$

$$\alpha = 189^\circ - 52' - 44''$$

$$\beta = 127^\circ - 55' - 17''$$

$$\beta - \alpha = 127^\circ - 3' - 13''$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 1111.1761043 \\ \Delta X \times \textcircled{4} &= 1111.1013103 \\ E &= 1111.1761043 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 1271.1613103$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 1111.10131 \\ X_1 &= -621161.13197 \\ X &= -621161.13197 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 1111.16131 \\ Y_1 &= -621161.16196 \\ Y &= -621161.13197 \end{aligned}$$

$$\begin{aligned} Y_2 &= -621161.16196 \\ Y_1 &= -621161.16196 \\ \Delta Y &= -1111.16196 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= +0.10101211141 \textcircled{1} \\ \text{Sin } \alpha &= +0.991619108 \textcircled{2} \\ \text{Cos } \beta &= +0.10161010101 \textcircled{3} \\ \text{Sin } \beta &= 0.991619108 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.10178151810 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= 1111.10142 \\ \Delta X \times \textcircled{2} &= 1111.1695100 \\ F &= 1111.1695100 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 1111.1695100$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 1111.101615 \\ X_2 &= -621161.13197 \\ X &= -621161.13197 \end{aligned}$$

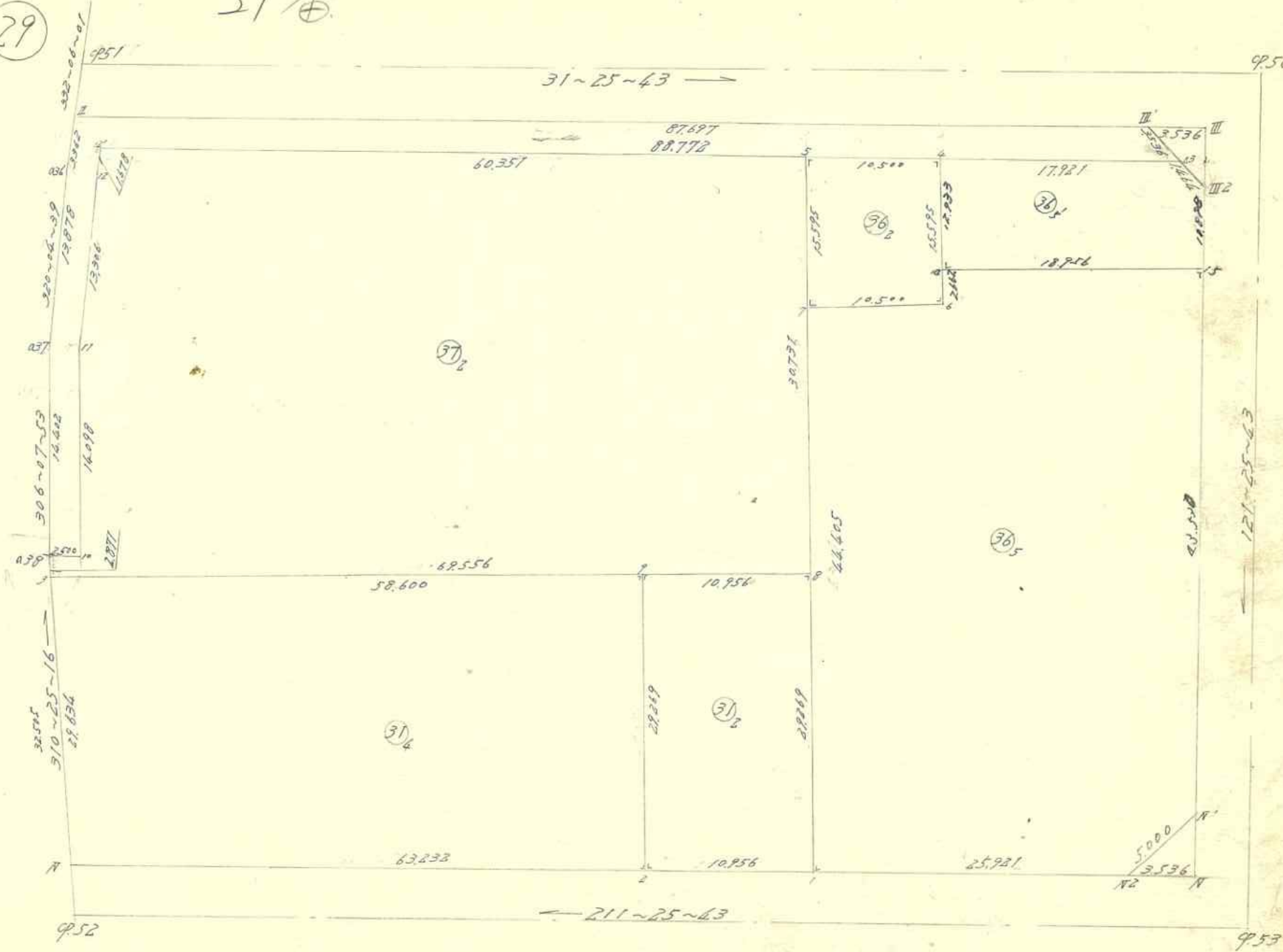
$$\begin{aligned} S_2 \times \textcircled{4} &= 1111.16131 \\ Y_2 &= -621161.16196 \\ Y &= -621161.13197 \end{aligned}$$

(29)

21番

31~25~43

9.50







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)	+	-	+	-
29	950 <sup>B2</sup>	6277.040		5.861	3719.233		9	11.576		317.625	106.862
筆番号	15	6271.206		22.879	3728.895		0	1.268		5.697	635.228
(26)	14	6255.061		9.231	3718.801		+	20.920	105.876		174.483
	4	6261.805		22.036	3707.265		+	1.692	19.974		164.499
	13	6277.097		15.635	3716.809		0	10.768		291.780	262.809

控除シタル値

X = 於テ 6250

y = 於テ 3700

$$\Sigma = \frac{125.850}{615.116} \quad \frac{816.574}{427.307}$$

$$2S = \frac{489.266}{489.566}$$

$$S = 522.680$$

740027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)	+	-	+	-

控除シタル値

X = 於テ \_\_\_\_\_

y = 於テ \_\_\_\_\_

$$\Sigma =$$

$$2S =$$

$$S =$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
29	13	6277.097	-	+75.234	3716.809	-	+43.045	5470.890	,	5026.308	,
筆番号	12	6201.033	-	+87.437	3670.327	-	+36.965	1086.435	,	1777.332	,
(水)	11	6189.660	-	+19.685	3679.844	-	0	20.903	,	829.013	587.479
	10	6181.348	-	+10.331	3691.230	-	9	9.912	,	310.721	425.947
a38	6179.329	-	,	0	6.473	3689.756	+13.106	384.386	,	,	257.341
a37	6187.821	-	,	0	19.135	3678.124	+20.538	776.768	,	,	538.153
a36	6198.464	-	,	0	13.614	3669.218	+10.480	507.903	,	,	261.634
451 <sup>II</sup>	6201.435	-	,	0	77.803	3667.644	0	44.156	,	2291.061	1372.756
450 <sup>II</sup>	6276.267	-	,	0	75.662	3713.372	0	49.165	,	6207.917	4794.852

控除シタル値

X = 於テ 6150

y = 於テ 3650

$$\bar{x} = \frac{9026.782}{9} = 9618.712$$

$$2S = \frac{594.220}{9} = 66.024$$

$$S = \frac{296.165}{89597} \text{ 年 月 日}$$

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)	+	-	+	-
29	8	6236.819	-	+75.378	3728.211	-	+110.048	671.397	,	4387.829	,
筆番号	3	6177.467	-	+57.490	3691.942	-	+38.455	287.143	,	1261.446	,
(37)	a38	6179.329	-	9	3.881	3689.756	7	7.712	6.642	,	76.673
	10	6181.348	-	9	10.331	3691.230	+9.912	112.481	,	,	219.327
	11	6189.660	-	0	18.517	3679.844	+19.925	391.726	,	,	182.281
	12	6199.865	-	0	11.688	3671.305	+9.326	278.461	,	,	75.253
	12'	6201.348	-	0	52.980	3670.520	0	30.685	,	961.913	27.550
	5	6252.845	-	0	35.471	3701.990	0	57.691	,	4779.411	1134.717

控除シタル値

X = 於テ 6170

y = 於テ 3670

$$\bar{x} = \frac{1747.850}{3} = 579.283$$

$$2S = \frac{3993.474}{3} = 1331.158$$

$$S = \frac{1996.737}{604.017} \text{ 年 月 日}$$

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)	+	-	+	-
29 筆番号 312	1	6221.557	-	+ 24.811	3753.186	-	e 19.262			227.610	816.741
	2	6212.808	-	o 5.913	3747.473	-	+ 30.688	67.759			162.448
	9	6227.470	-	o 24.611	3722.498	-	+ 19.262	336.597			67.478
	8	6236.819	-	+ 5.913	3728.211	-	o 30.688		823.021	48.552	

控除シタル値

X = 於テ 6,210.-

y = 於テ 3,720.-

$\Sigma = \underline{404,266} \quad \underline{1,045,631} \quad \underline{865,293} \quad \underline{223,986}$

$2S = \underline{641,365} \quad \underline{641,387}$

$S = \underline{320,683}$   
97.01.19 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)	+	-	+	-
29 筆番号 314	2	6212.808	-	+ 69.217	3747.473	-	+ 7.996	497.415		3,978.109	
	952 <sup>7</sup>	6158.253	-	+ 34.741	3714.502	-	+ 55.531	458.297		851.224	
	3	6177.467	-	o 69.217	3691.942	-	o 7.996		219.626		134.419
	9	6227.470	-	o 34.741	3722.498	-	o 55.531		4301.987		1,129.013

控除シタル値

X = 於テ 6,150.-

y = 於テ 3,690.-

$\Sigma = \underline{955,712} \quad \underline{4,521,613} \quad \underline{4,829,333} \quad \underline{1,263,432}$

$2S = \underline{3,565,901} \quad \underline{3,565,901}$

$S = \underline{1,782,950}$   
539.34.19 年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	$\Delta X + \Delta X_{n+1}$	Yn	Yn-Yn+1	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
29	6	6253.673	-	+17.092	3720.772	-	0	7.832		420.367	355.035	
筆番号	7	6244.713	-	+828	3715.297	-		18.782	839.800		12.666	
362	5	6252.845	-	+17.092	3701.990	-		7.832	413.882			34.073
	4	6261.805	-	+828	3707.465	-		18.782		1160.822		6.181
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						

控除シタル値  
 Xニ於テ 6200  
 yニ於テ 3700

$\bar{z} = 1253.683$      $1581.189$      $367.701$      $60.196$   
 $2S = 327.506$      $327.507$   
 $S = 163.753$     印  
 49.53<sup>年</sup>    年    月    日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	$\Delta X + \Delta X_{n+1}$	Yn	Yn-Yn+1	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
29	953 <sup>年</sup>	6243.676	-	+26.980	3766.702	-		12.343	539.093		41799.620	
筆番号	1	6221.557	-	+1.037	3753.186	-		57.405	1108.138			55.154
365	7	6244.713	-	+32.116	3715.297	-		32.414	1449.327			491.278
	6	6253.673	-	+17.092	3720.772	-		7.832	420.367			355.035
	4	6261.805	-	+23.424	3707.465	-		3.963	244.933			174.860
	13	6277.097	-	+15.635	3716.809	-		10.768		830.180		262.809
	950 <sup>年</sup>	6277.440	-	128.560	3718.233	-		48.720		3772.877	520.234	
	953 <sup>年</sup>	6248.537	-	133.764	3765.529	-		48.469		2352.520	2212.521	
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						

控除シタル値  
 Xニ於テ 6200  
 yニ於テ 3700

$\bar{z} = 3761.258$      $6952.597$      $4532.875$      $1339.136$   
 $2S = 3193.739$      $3193.739$   
 $S = 1596.869$     印  
 483.05<sup>年</sup>    年    月    日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
29	13	6277.097	-	+76.919	3716.809	-	+42.852	5446.361			5205.263	
(*)	12	6201.348	-	+77.232	3670.520	-	+45.504	2336.539			1584.801	
	12	6199.865	-	+11.688	3671.305	-	+9.324		464.941		249.013	
	11	6189.660	-	+18.517	3679.844	-	+19.925		790.226		552.621	
	10	6181.348	-	+10.331	3691.230	-	+9.912		310.721		425.947	
	a38	6179.329	-	+6.473	3689.756	-	+13.706	384.386				257.341
	a37	6187.821	-	+19.135	3678.124	-	+20.538	776.768				538.153
	a36	6198.464	-	+13.614	3669.218	-	+10.480	507.903				261.634
	951	6201.435	-	+77.803	3667.644	-	+44.154		2271.061			1377.756

控除シタル値

X=於テ

y=於テ

$\bar{x} =$

2S=

S=

年 月 日

印

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
	950	6276.267	-	+75.662	3713.372	-	+49.165		6207.917		4794.852	
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						
			-			-						

控除シタル値

X=於テ 6150

y=於テ 3650

$\bar{x} =$

2S=

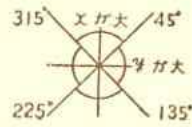
S=

年 月 日

印

多角点計算用紙

測量No. \_\_\_\_\_

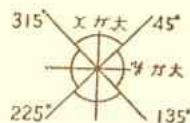


象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺の X		辺の Y		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	953 <sup>IV</sup>	"	"	"	.			.	.	.	.	6246.693	3768.546	953 <sup>IV</sup>
953 <sup>IV</sup>	953 <sup>IV</sup>			211 25 43	3.536	521423	853298	.	.	.	.	6243.676	3766.702	953 <sup>IV</sup>
953 <sup>IV</sup>	1			"	25.921	"	"	.	.	.	.	6221.557	3753.186	1
1	2	100.109		"	10.956	"	"	.	.	.	.	6212.208	3747.473	2
2	952 <sup>IV</sup>			"	63.232	"	"	.	.	.	.	6158.253	3714.502	952 <sup>IV</sup>
952 <sup>IV</sup>	3	32.505		310 25 16	29.636	648415	761287	.	.	.	.	6177.467	3691.942	3
3	a38			"	2.871	"	"	.	.	.	.	6179.329	3689.756	a38
a38	a37			306 07 53	14.402	589627	807676	.	.	.	.	6187.821	3678.124	a37
a37	a36			320 04 39	13.878	641747	766916	.	.	.	.	6198.464	3669.218	a36
a36	951 <sup>II</sup>			332 06 01	3.362	467930	883766	.	.	.	.	6201.435	3667.644	951 <sup>II</sup>
951 <sup>II</sup>	950 <sup>III</sup>			31 25 43	87.697	521423	853298	.	.	.	.	6276.267	3713.372	950 <sup>III</sup>
950 <sup>III</sup>	950 <sup>III</sup>			"	3.536	"	"	.	.	.	.	6279.284	3715.216	950 <sup>III</sup>
950 <sup>III</sup>	950 <sup>III</sup>			121 25 43	3.536	"	"	.	.	.	.	6277.440	3718.233	950 <sup>III</sup>
950 <sup>III</sup>	953 <sup>IV</sup>			"	55.428	"	"	.	.	.	.	6248.527	3765.529	953 <sup>IV</sup>
953 <sup>IV</sup>	953 <sup>IV</sup>			"	3.536	"	"	.	.	.	.	6246.693	3768.546	953 <sup>IV</sup>
					.			.	.	.	.	.	.	
					.			.	.	.	.	.	.	
					.			.	.	.	.	.	.	
	4				.			.	.	.	.	6245.805	3727.215	4
4	14			121 25 20	12.920	521423	853298	.	6.742	21° 23'	.	6255.061	3728.501	14
14	15			21 25 20	18.956	"	"	16.175	.	9.884	.	6271.236	3728.385	15

多角点計算用紙

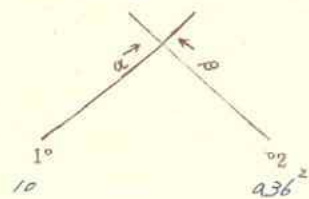
測量No. \_\_\_\_\_



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	
	a25											6214.091	3660.944	a25
a25	a25 <sup>A</sup>			62 06 01	2.500	467926	883768	1.770		2.209		6215.261	3663.153	a25 <sup>A</sup>
	q50 <sup>II</sup>											6279.284	3715.216	q50 <sup>II</sup>
q50 <sup>II</sup>	A			121 25 43	2.500	521423	853298		1.304	2.133		6277.980	3717.349	A
	a36											6198.464	3669.218	a36
a36	a36 <sup>1</sup>			140 04 39	5.000	641747	766916		3.835	3.209		6194.629	3672.427	a36 <sup>1</sup>
a36 <sup>1</sup>	a36 <sup>2</sup>			50 04 39	2.500			1.604		1.917		6196.233	3674.344	a36 <sup>2</sup>
	a38											6179.329	3689.756	a38
a38	10			36 07 53	2.500	589627	807676	2.019		1.474		6181.348	3691.230	10
	q53 <sup>IV</sup>											6246.693	3768.546	q53 <sup>IV</sup>
q53 <sup>IV</sup>	1			211 25 43	29.457	521423	853298		25.136		15.360	6221.557	3753.186	1
1	8			301 25 43	29.369	"	"	15.262			24.975	6236.819	3728.211	8
8	9			211 25 43	10.956	"	"		9.349		5.713	6227.470	3722.498	9
9	2			121 25 43	29.369	"	"		15.262	24.975		6212.208	3747.473	2
	13											6277.097	3716.809	13
13	4			211 25 43	17.971	521423	853298		15.292		9.244	6261.805	3707.465	4
4	5				10.500	"	"		8.960		5.475	6253.843	3701.990	5
5	7			121 25 43	15.595	"	"		8.137	13.307		6244.713	3715.397	7
7	6			31 25 43	10.500	"	"	8.960		5.475		6253.873	3720.772	6

算出点 11



$$\begin{aligned} a36^2 X_2 &= -611961 \cdot 2313 \\ 10 X_1 &= -611911 \cdot 2348 \\ \Delta X &= -11141 \cdot 885 \end{aligned}$$

$$\begin{aligned} \alpha &= 126^\circ - 67' - 59'' \\ \beta &= 140^\circ - 04' - 39'' \\ \beta - \alpha &= 13^\circ - 56' - 40'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times ③ &= +11121 \cdot 956029 \\ \Delta X \times ④ &= +11191 \cdot 512126 \\ E &= 11121 \cdot 291763 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1141 \cdot 01975$$

$$\begin{aligned} S_1 \times ① &= +11181 \cdot 2312 \\ X_1 &= -611811 \cdot 2348 \\ X &= -6118191 \cdot 6160 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 911111 \cdot 2386 \\ Y_1 &= -3161911 \cdot 2313 \\ Y &= -31617191 \cdot 844 \end{aligned}$$

$$\begin{aligned} Y_2 &= -3161761 \cdot 2344 \\ Y_1 &= -3161911 \cdot 2313 \\ \Delta Y &= -211161 \cdot 886 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= +0.5181916191 \text{ ①} \\ \sin \alpha &= 9.01810171617 \text{ ②} \\ \cos \beta &= 0.17661919191 \text{ ③} \\ \sin \beta &= +0.6441717191 \text{ ④} \\ \sin(\beta - \alpha) &= -0.2141101091 \text{ ⑤} \end{aligned}$$

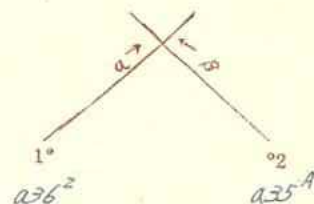
$$\begin{aligned} \Delta Y \times ① &= 911191 \cdot 95666 \\ \Delta X \times ② &= 91121 \cdot 02212 \\ F &= 11121 \cdot 06548 \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1181 \cdot 51707$$

$$\begin{aligned} S_2 \times ③ &= 911181 \cdot 5173 \\ X_2 &= -611961 \cdot 2313 \\ X &= -6118191 \cdot 6160 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 911151 \cdot 51010 \\ Y_2 &= -3161761 \cdot 2344 \\ Y &= -31617191 \cdot 844 \end{aligned}$$

算出点 12



$$\begin{aligned} a35^2 X_2 &= -611151 \cdot 2367 \\ a36^2 X_1 &= -611961 \cdot 2313 \\ \Delta X &= -11191 \cdot 028 \end{aligned}$$

$$\begin{aligned} \alpha &= 132^\circ - 04' - 39'' \\ \beta &= 152^\circ - 06' - 01'' \\ \beta - \alpha &= 12^\circ - 01' - 22'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times ③ &= +11191 \cdot 899025 \\ \Delta X \times ④ &= +11191 \cdot 900370 \\ E &= 11111 \cdot 981695 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 1121 \cdot 23163$$

$$\begin{aligned} S_1 \times ① &= +111131 \cdot 6122 \\ X_1 &= -611961 \cdot 2313 \\ X &= -6118191 \cdot 6165 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 911131 \cdot 0239 \\ Y_1 &= -3161761 \cdot 2344 \\ Y &= -31617191 \cdot 845 \end{aligned}$$

$$\begin{aligned} Y_2 &= -3161631 \cdot 1753 \\ Y_1 &= -3161761 \cdot 2344 \\ \Delta Y &= -21111 \cdot 1791 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= +0.17661919191 \text{ ①} \\ \sin \alpha &= 9.01810171617 \text{ ②} \\ \cos \beta &= 9.018181371618 \text{ ③} \\ \sin \beta &= +0.4161719161 \text{ ④} \\ \sin(\beta - \alpha) &= -0.21018130571 \text{ ⑤} \end{aligned}$$

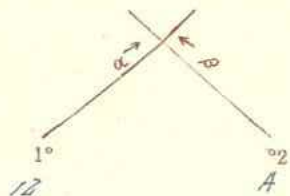
$$\begin{aligned} \Delta Y \times ① &= 911181 \cdot 518225 \\ \Delta X \times ② &= 91111 \cdot 0111126 \\ F &= 11191 \cdot 62872 \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = 1171 \cdot 41215$$

$$\begin{aligned} S_2 \times ③ &= -111151 \cdot 01916 \\ X_2 &= -611961 \cdot 2313 \\ X &= -6118191 \cdot 6165 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= +111181 \cdot 0158 \\ Y_2 &= -3161631 \cdot 1753 \\ Y &= -31617191 \cdot 845 \end{aligned}$$

算出點 12'



$$\begin{aligned} A \quad X_2 &= -621771 \cdot 1980 \\ 12 \quad X_1 &= -611991 \cdot 8615 \\ \Delta X &= -11980 \cdot 115 \end{aligned}$$

$$\begin{aligned} \alpha &= 1332' - 06' - 01'' \\ \beta &= 1211' - 25' - 43'' \\ \beta - \alpha &= 199' - 19' - 42'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times ③ &= 9139 \cdot 28893 \\ \Delta X \times ④ &= 91401 \cdot 73787 \\ E &= 1111 \cdot 44306 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 1111 \cdot 6777$$

$$\begin{aligned} S_1 \times ① &= + 1111 \cdot 483 \\ X_1 &= -611991 \cdot 8615 \\ X &= -621011 \cdot 348 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 91111 \cdot 7815 \\ Y_1 &= -316171 \cdot 13105 \\ Y &= -3161701 \cdot 5210 \end{aligned}$$

$$\begin{aligned} Y_2 &= -317171 \cdot 13419 \\ Y_1 &= -316171 \cdot 13105 \\ \Delta Y &= -11461 \cdot 0144 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0.1883781 \quad ① \\ \text{Sin} \alpha &= 9 \cdot 467926 \quad ② \\ \text{Cos} \beta &= 9 \cdot 18532191 \quad ③ \\ \text{sin} \beta &= 9 \cdot 52114361 \quad ④ \\ \text{Sin}(\beta - \alpha) &= - 0.1861011051 \quad ⑤ \end{aligned}$$

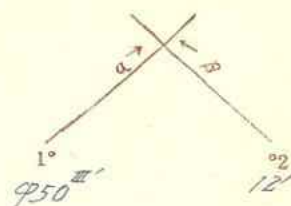
$$\begin{aligned} \Delta Y \times ① &= + 1401 \cdot 69287 \\ \Delta X \times ② &= 91361 \cdot 55204 \\ F &= 1177 \cdot 24225 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 189 \cdot 8079$$

$$\begin{aligned} S_2 \times ③ &= 91176 \cdot 632 \\ X_2 &= -621771 \cdot 1980 \\ X &= -621011 \cdot 348 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 91461 \cdot 829 \\ Y_2 &= -317171 \cdot 13419 \\ Y &= -3161701 \cdot 5210 \end{aligned}$$

算出點 13



$$\begin{aligned} 12' \quad X_2 &= -621011 \cdot 13418 \\ 13 \quad X_1 &= -621761 \cdot 2617 \\ \Delta X &= -011741 \cdot 9119 \end{aligned}$$

$$\begin{aligned} \alpha &= 176' - 25' - 43'' \\ \beta &= 1311' - 25' - 43'' \\ \beta - \alpha &= 1235' - 00' - 04'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times ③ &= 91361 \cdot 55204 \\ \Delta X \times ④ &= 9139 \cdot 28893 \\ E &= 1111 \cdot 44306 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 1111 \cdot 6777$$

$$\begin{aligned} S_1 \times ① &= + 1111 \cdot 830 \\ X_1 &= -621761 \cdot 2617 \\ X &= -621771 \cdot 10917 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= + 11111 \cdot 2317 \\ Y_1 &= -317171 \cdot 13172 \\ Y &= -3171761 \cdot 18019 \end{aligned}$$

$$\begin{aligned} Y_2 &= -3161701 \cdot 5210 \\ Y_1 &= -317171 \cdot 13172 \\ \Delta Y &= -01461 \cdot 1852 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0.23465171 \quad ① \\ \text{Sin} \alpha &= + 0.9712101718 \quad ② \\ \text{Cos} \beta &= + 0.18532191 \quad ③ \\ \text{sin} \beta &= + 0.52114361 \quad ④ \\ \text{Sin}(\beta - \alpha) &= - 0.171017110171 \quad ⑤ \end{aligned}$$

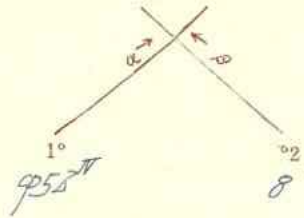
$$\begin{aligned} \Delta Y \times ① &= 911101 \cdot 015552 \\ \Delta X \times ② &= 91172 \cdot 82771 \\ F &= 168 \cdot 177159 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 188 \cdot 17726$$

$$\begin{aligned} S_2 \times ③ &= + 11751 \cdot 17418 \\ X_2 &= -621011 \cdot 13418 \\ X &= -621771 \cdot 10917 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= + 1461 \cdot 2189 \\ Y_2 &= -3161701 \cdot 5210 \\ Y &= -3171761 \cdot 18019 \end{aligned}$$

算出点 3



$$\begin{aligned} X_2 &= -612361.878 \\ X_1 &= -611581.253 \\ \Delta X &= -1178.566 \end{aligned}$$

$$\begin{aligned} \alpha &= 1310^\circ - 85' - 16'' \\ \beta &= 121^\circ - 25' - 43'' \\ \beta - \alpha &= 181^\circ - 00' - 27'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 91111.69777 \\ \Delta X \times \textcircled{4} &= 91401.96714 \\ E &= 129.26937 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 129.16326$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + 1119.214 \\ X_1 &= -611581.253 \\ X &= -611717.467 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0 1221.560 \\ Y_1 &= -317141.5102 \\ Y &= -316911.942 \end{aligned}$$

$$\begin{aligned} Y_2 &= -317281.211 \\ Y_1 &= -317141.5102 \\ \Delta Y &= +1139.709 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= + 1.64846101 \textcircled{1} \\ \sin \alpha &= 9.1761299 \textcircled{2} \\ \cos \beta &= 9.1853291 \textcircled{3} \\ \sin \beta &= 9.15214361 \textcircled{4} \\ \sin(\beta - \alpha) &= - 1.98717091 \textcircled{5} \end{aligned}$$

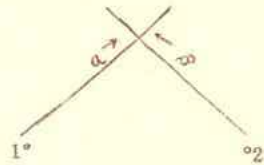
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + 1118.88892 \\ \Delta X \times \textcircled{2} &= 9157.81222 \\ F &= 168.70114 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 169.5567$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9 159.352 \\ X_2 &= -612361.819 \\ X &= -611717.467 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9 1221.560 \\ Y_2 &= -317281.211 \\ Y &= -316911.942 \end{aligned}$$

算出点



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

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

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

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

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

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

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

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

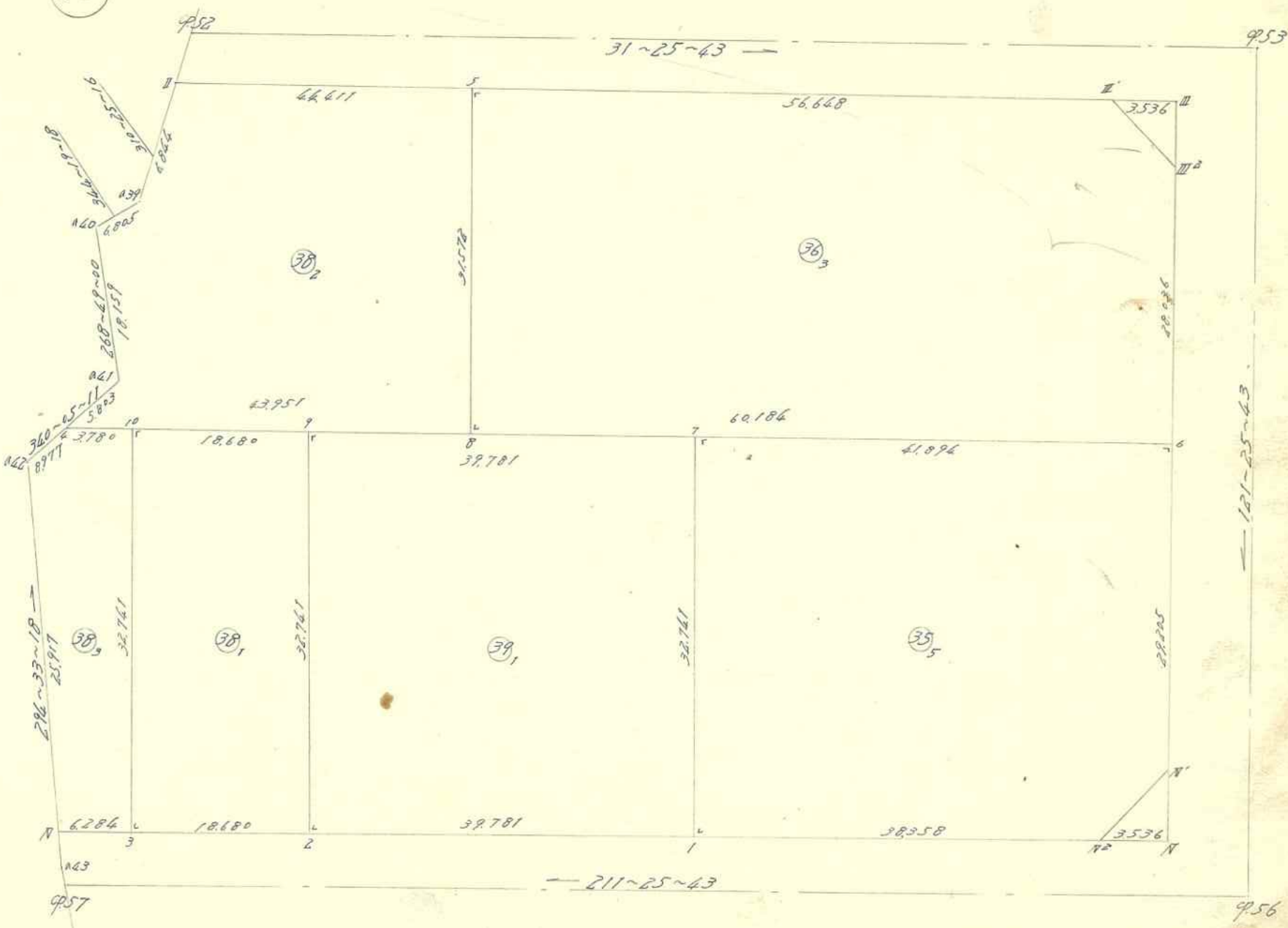
$$\begin{aligned} \Delta Y \times \textcircled{1} &= - \\ \Delta X \times \textcircled{2} &= - \\ F &= \end{aligned}$$

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

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

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

(30)







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 ③ <sub>5</sub>	456 <sup>N</sup>	6.207.012	-	+ 27.5933.826.699	-	+ 10.829.2016.929	/	/	/	4.762.996	/	
	1	6.174.280	-	+ 15.6603.806.697	-	+ 47.940.3560.983	/	/	/	1.670.876	/	
	7	6.191.352	-	⊖ 52.8223.778.759	-	+ 6.091.556.425	/	/	/	4.160.208	/	
	6	6.227.102	-	⊖ 20.5213.800.606	-	⊖ 46.767	/	5.944.179	/	/	2.064.536	/
	456 <sup>N</sup>	6.211.873	-	+ 20.0903.825.526	-	⊖ 26.093	/	2.919.102	/	2.521.817	/	
		-	-	-	-	-	-	-	-	-	-	

控除シタル値

Xニ於テ 6.100

yニ於テ 3.700

$$\Sigma = \underline{6.132.337.8863.281} \quad \underline{8.955.689.6224.744}$$

$$2S = \underline{2.730.944} \quad \underline{2.730.945}$$

$$S = \underline{1.365.472}$$

413.05<sup>4</sup>

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 ③ <sub>1</sub>	1	6.174.280	-	+ 51.0173.806.697	-	⊖ 7.195	/	534.465	/	5.443.361	/
	2	6.140.335	-	+ 16.8733.785.954	-	+ 48.681.1963.548	/	/	/	1.650.308	/
	9	6.157.407	-	⊖ 51.0173.758.016	-	+ 7.195.413.063	/	/	/	2.959.802	/
	7	6.191.352	-	⊖ 16.8733.778.759	-	⊖ 48.681	/	4.447.197	/	/	1.328.901
		-	-	-	-	-	-	-	-	-	-

控除シタル値

Xニ於テ 6.100

yニ於テ 3.700

$$\Sigma = \underline{2.376.591.4981.552} \quad \underline{6.893.463.4288.703}$$

$$2S = \underline{2.604.961} \quad \underline{2.604.960}$$

$$S = \underline{1.302.480}$$

394.00<sup>4</sup>

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 38	2	6.160.335	-	T 33 0113785.954	-	-	⊖ 18 198			734.016	2837.427	
	3	6.124.396	-	⊖ 1 1333776.214	-	-	+ 37 678	919.192				86.350
	10	6.141.468	-	A 33 0113768.276	-	-	+ 18 198	754.635				1593.639
	9	6.157.407	-	T 1 1333758.016	-	-	⊖ 37 678		2162.981		65.732	

控除シタル値

X=於テ 6.100

y=於テ 3.700

$$\bar{z} = 1673.827 \quad 2.896.997 \quad 2.903.159 \quad 1.679.989$$

$$2S = 1.223.170$$

$$1.223.170$$

$$S = 611.585$$

印  
日  
月  
年

185.00<sup>47</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 38	3	6.124.396	-	+ 22 4243776.214	-	-	⊖ 24 661			601.630	1709.785	
	957	6.119.034	-	⊖ 5 4083772.937	-	-	+ 26 850	511.063				394.443
	042	6.129.806	-	⊖ 19 2113769.364	-	-	+ 26 631	793.710				948.332
	4	6.138.245	-	⊖ 11 6643746.306	-	-	+ 1 088	41.616				540.113
	10	6.141.468	-	+ 13 843768.276	-	-	⊖ 29 908		1240.225		668.574	

控除シタル値

X=於テ 6.100

y=於テ 3.700

$$\bar{z} = 1346.384 \quad 1841.855 \quad 2.378.359 \quad 1.882.888$$

$$2S = 495.471$$

$$495.471$$

$$S = 247.736$$

印  
日  
月  
年

76.96<sup>47</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	8	6.175.748	-	+53.966	3769.224	-	⊖4.021			304.583	3735.742	
③	4	6.138.245	-	+32.048	3746.306	-	+24.894	952.071			1484.015	
	041	6.143.700	-	⊖5.080	3744.330	-	+20.131	879.725				225.196
	040	6.143.325	-	⊖6.177	3726.175	-	+19.994	866.260				161.683
	039	6.149.877	-	⊖10.990	3724.336	-	+7.049	351.583				267.453
	452 <sup>II</sup>	6.154.315	-	⊖42.334	3719.126	-	⊖17.949			974.900		809.680
	5	6.192.211	-	⊖21.433	3742.285	-	⊖50.098			4.619.587		906.294
			-			-						
			-			-						

控除シタル値

X=於テ 6.100

y=於テ 3.700

$\bar{X} = 6.2049$   $\bar{Y} = 619.5899$   $070$   $5.219$   $757$   $2.370$   $306$

$2S = 2849.451$   $2849.451$

S = 1424.725

630.98<sup>49</sup> 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号	6	6.227.102	-	+65.973	3800.606	-	+7.459	948.054			6.637.280	
③	8	6.175.748	-	+34.891	3769.224	-	+58.321	4417.699			2415.295	
	5	6.192.211	-	⊖64.800	3742.285	-	⊖2.598			239.566		2740.068
	453 <sup>III</sup>	6.240.548	-	⊖49.510	3771.822	-	⊖34.398			4834.570		3555.907
	453 <sup>III</sup>	6.241.721	-	+13.446	3776.683	-	⊖28.784			4079.297	1031.080	
			-			-						
			-			-						
			-			-						
			-			-						

控除シタル値

X=於テ 6.100

y=於テ 3.700

$\bar{X} = 5.365$   $\bar{Y} = 753.2153$   $431$   $11083$   $655$   $6.295$   $975$

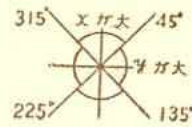
$2S = 3787.678$   $3787.680$

S = 1893.839

572.89<sup>29</sup> 年 月 日 印

多角点計算用紙

測量No.



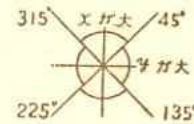
象 限	I	+	↗	+	↗
	II	-	↖	+	↖
	III	-	↙	-	↙
	IV	+	↘	-	↘

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	956 <sup>N</sup>	° 1 "		° 1 "	.			.	.	.	.	6210.029	3828.543	956 <sup>N</sup>
956 <sup>N</sup>	956 <sup>N2</sup>			211 25 43	3.536			.	.	.	.	6207.012	3826.699	956 <sup>N2</sup>
956 <sup>N2</sup>	1			"	38.358			.	.	.	.	6174.280	3806.697	1
1	2	103.103		"	39.781			.	.	.	.	6140.335	3785.954	2
2	3			"	18.680			.	.	.	.	6124.396	3776.214	3
3	957 <sup>N</sup>			"	6.284			.	.	.	.	6119.034	3772.937	957 <sup>N</sup>
957 <sup>N</sup>	0.42			294 33 18	25.917			.	.	.	.	6129.804	3749.364	0.42
0.42	4	14.780		340 05 11	8.977			.	.	.	.	6138.245	3746.306	4
4	0.41			"	5.803			.	.	.	.	6143.700	3746.330	0.41
0.41	0.40			268 49 00	18.159			.	.	.	.	6143.325	3726.175	0.40
0.40	0.39			344 19 18	6.805			.	.	.	.	6149.877	3724.336	0.39
0.39	952 <sup>II</sup>			310 25 16	6.844			.	.	.	.	6154.315	3719.126	952 <sup>II</sup>
952 <sup>II</sup>	5	101.059		31 25 43	44.411			.	.	.	.	6192.211	3742.284	5
5	953 <sup>III'</sup>			"	56.648			.	.	.	.	6240.548	3771.822	953 <sup>III'</sup>
953 <sup>III'</sup>	953 <sup>III</sup>			"	3.536			.	.	.	.	6243.565	3773.666	953 <sup>III</sup>
953 <sup>III</sup>	953 <sup>III2</sup>			121 25 43	3.536			.	.	.	.	6241.721	3776.683	953 <sup>III2</sup>
953 <sup>III2</sup>	6	57.241		"	28.036			.	.	.	.	6227.102	3800.606	6
6	956 <sup>N'</sup>			"	29.205			.	.	.	.	6211.873	3825.526	956 <sup>N'</sup>
956 <sup>N'</sup>	956 <sup>N</sup>			"	3.536			.	.	.	.	6210.029	3828.543	956 <sup>N</sup>

協和建設測量

多角点計算用紙

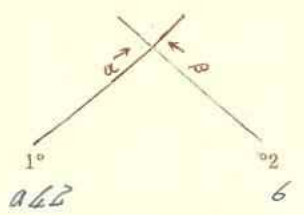
測量No.



象限	I	+	+	+	+
	II	-	-	+	-
	III	-	-	-	-
	IV	+	+	-	-

測点	観点	内角	修正角量	方位角		辺長	真数		辺の X		辺の Y		点の座標		点
				Sin	CoS		N (+)	S (-)	E (+)	W (-)	X	Y			
	953 <sup>III</sup>											6263.565	3773.666	953 <sup>III</sup>	
953 <sup>III</sup>	6			121	25 43	31.572	521436	853291		16.463 <sup>(R)</sup>	26.940	6.227.102	3800.606	6	
6	7			211	25 43	41.894	"	"		35.748 <sup>(R)</sup>	21.845 <sup>(2)</sup>	6191.352	3778.759	7	
7	1			121	25 43	32.741	"	"		17.072	27.938	6176.280	3806.697	1	
1	2			211	25 43	39.781	"	"		33.945 <sup>(R)</sup>	20.743	6140.335	3785.954	2	
2	9			301	25 43	32.741	"	"		17.072	27.938 <sup>(R)</sup>	6157.407	3758.016	9	
9	10			211	25 43	18.680	"	"		15.939 <sup>(R)</sup>	9.740	6141.488	3768.276	10	
10	3			121	25 43	32.741	"	"		17.072 <sup>(R)</sup>	27.938	6126.396	3776.214	3	
	957 <sup>IV</sup>			211		6.284				5.260	3.027	6119.034	3772.937	957 <sup>IV</sup>	
	6											6227.102	3800.606	6	
6	8			211	25 43	60.184	521436	853291		51.354 <sup>(R)</sup>	31.382	6175.748	3769.224	8	
8	5			301	25 43	31.572	"	"		16.463	26.940 <sup>(R)</sup>	6192.211	3767.284	5	

算出点 4



$$\begin{aligned} 6 X_2 &= - 612271.1702 \\ 0.42 X_1 &= - 612271.18106 \\ \hline \Delta X &= - 119171.2798 \end{aligned}$$

$$\begin{aligned} \alpha &= 360^\circ - 25 - 11'' \\ \beta &= 211^\circ - 25 - 45'' \\ \beta - \alpha &= 151^\circ - 20 - 34'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times ③ &= 0.143172636 \\ \Delta X \times ④ &= 0.150172668 \\ \hline E &= 1171.61036 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 1181.191716$$

$$\begin{aligned} S_1 \times ① &= 7 \quad 1181.14417 \\ X_1 &= - 612271.18106 (+) \\ X &= - 612271.18106 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= 0 \quad 1181.01518 \\ Y_1 &= - 317419.13166 (+) \\ Y &= - 317419.13166 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 318010.16106 \\ Y_1 &= - 317419.13166 \\ \hline \Delta Y &= - 590.02940 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + 0.96102017 \quad ① \\ \text{Sin} \alpha &= 0.274016103 \quad ② \\ \text{Cos} \beta &= 0.48532911 \quad ③ \\ \text{Sin} \beta &= 0.872163161 \quad ④ \\ \text{Sin}(\beta - \alpha) &= - 0.17808991 \quad ⑤ \end{aligned}$$

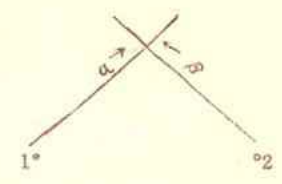
$$\begin{aligned} \Delta Y \times ① &= + 1.281717809 \\ \Delta X \times ② &= 0.133173999 \\ \hline F &= 181.131808 \end{aligned}$$

$$S_2 = \frac{F}{⑤} = 1101.61131510$$

$$\begin{aligned} S_2 \times ③ &= 5 \quad 1181.18517 \\ X_2 &= - 612271.1702 (+) \\ X &= - 612271.1702 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 0 \quad 1181.01010 \\ Y_2 &= - 318010.16106 (+) \\ Y &= - 317419.13166 \end{aligned}$$

算出点  



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

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

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

$$S_1 = \frac{E}{⑤} = \quad | \quad | \quad | \quad | \quad | \quad |$$

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

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

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

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

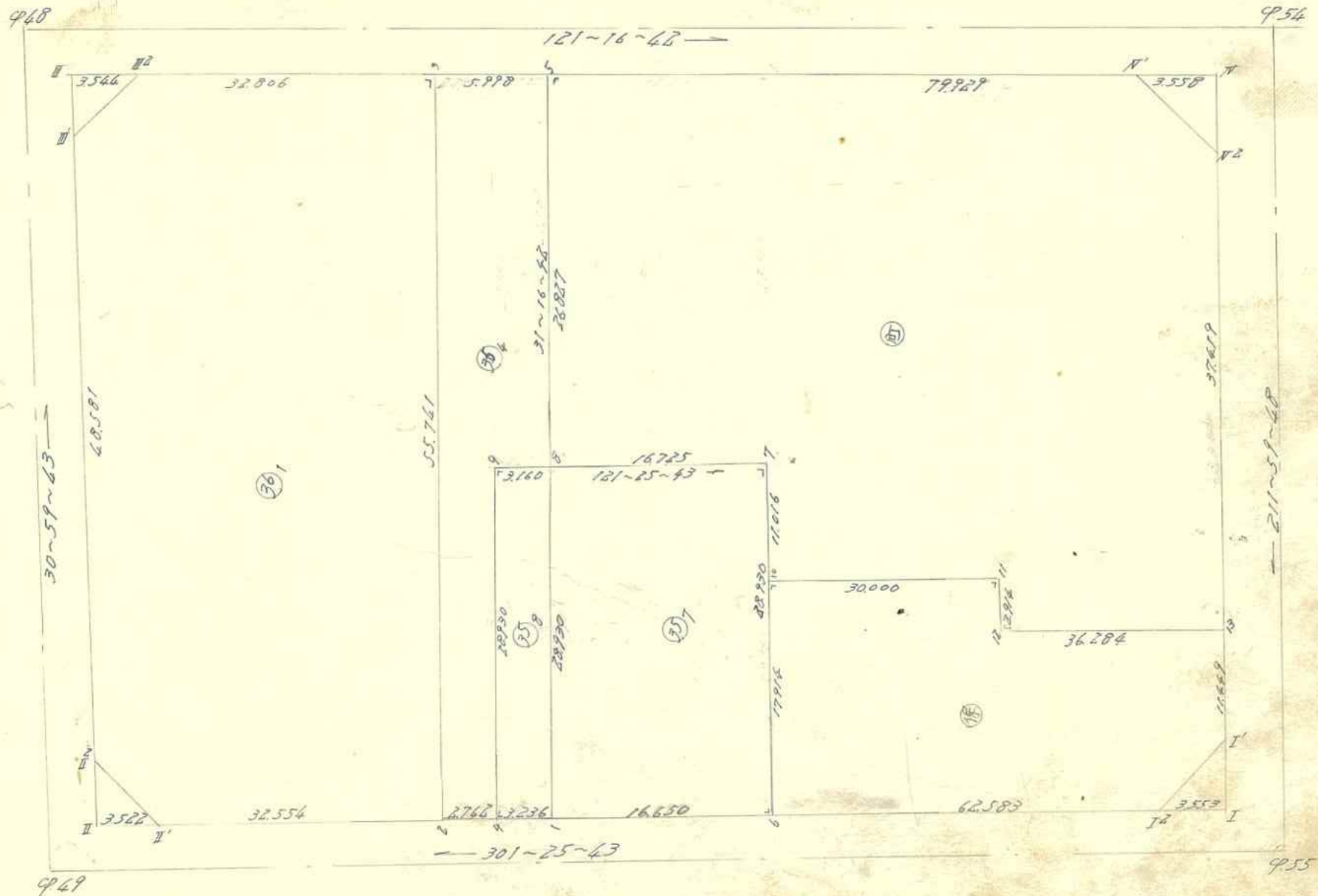
$$\begin{aligned} \Delta Y \times ① &= - \quad | \quad | \quad | \quad | \quad | \quad | \\ \Delta X \times ② &= - \quad | \quad | \quad | \quad | \quad | \quad | \\ \hline F &= \quad | \quad | \quad | \quad | \quad | \quad | \end{aligned}$$

$$S_2 = \frac{F}{⑤} = \quad | \quad | \quad | \quad | \quad | \quad |$$

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

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

31





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 361	3	6305.892	-	+ 64.672	3809.257	-	+ 903	95.620	/	7065.869	/
	2	6258.253	-	+ 30.664	3780.316	-	+ 56.719	3306.052	/	2462.810	/
	949 <sup>II</sup>	6275.228	-	+ 21.830	3752.538	-	+ 28.969	2179.280	/		1166.905
	949 <sup>II2</sup>	6280.083	-	+ 46.499	3751.347	-	+ 23.827		1908.138	/	2387.584
	948 <sup>III</sup>	6321.727	-	+ 42.842	3776.365	-	+ 29.872		3636.229	/	3271.629
	948 <sup>III2</sup>	6322.925	-	+ 15.834	3781.219	-	+ 32.892		4063.269	/	1286.103

控除シタル値

X = 於テ 6200

y = 於テ 3700

$$\Sigma = 5578.952 \quad 9587.616 \quad 10814.782 \quad 6806.118$$

$$2S = 4008.666$$

$$4008.666$$

$$S = 2004.332$$

606.31 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 364	4	6256.812	-	+ 23.245	3782.873	-	+ 17.442	118.815	/	62.134	/
	2	6258.253	-	+ 49.080	3780.316	-	+ 26.584	219.398	/		15.509
	3	6305.892	-	+ 44.525	3809.257	-	+ 34.067	16.025	1904.1073	/	1302.668
	5	6302.778	-	+ 26.042	3814.383	-	+ 8.808	466.552	/	895.402	/
	8	6279.850	-	+ 21.280	3800.455	-	+ 16.625	496.256	/	435.282	/
	9	6281.498	-	+ 23.038	3797.758	-	+ 17.782	560.097	/	409.109	/

控除シタル値

X = 於テ 6250

y = 於テ 3780

$$\Sigma = 4639.780 \quad 2184.471 \quad 1807.927 \quad 1318.177$$

$$2S = 483.751$$

$$483.750$$

$$S = 241.875$$

73.17 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 ⑤ <sub>8</sub>	1	6.255.125	-	+ 23.038	3.785.434	-	+ 17.782	91.133		125.188	
	4	6.256.812	-	⊖ 26.373	3.782.673	-	⊖ 12.324		83.951	125.188	70.495
	9	6.281.498	-	⊖ 23.038	3.797.758	-	⊖ 17.782		560.097		409.109
	8	6.279.850	-	+ 26.373	3.800.455	-	+ 12.324	367.871		539.460	

控除シタル値

X=於テ 6.250

y=於テ 3.780

$\Sigma =$  459.004 644.048 664.648 479.604

2S= 185.044

S= 92.522

279909

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 ⑤ <sub>7</sub>	1	6.255.125	-	⊖ 33.407	3.785.434	-	⊖ 874		12.912		181.534
	8	6.279.850	-	⊖ 16.004	3.800.455	-	⊖ 29.292		1167.286		327.362
	7	6.271.129	-	+ 33.407	3.814.726	-	+ 874	85.339		1160.091	327.362
	6	6.246.443	-	+ 16.004	3.799.647	-	+ 29.292	188.728		314.335	181.534

控除シタル値

X=於テ 6.240

y=於テ 3.780

$\Sigma =$  216.067 1179.598 1476.926 568.896

2S= 965.531

S= 482.765

146049

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 ⑦	954 <sup>12</sup>	6256.415	-	+36.599	3883.851	-	+18.672	2052.381			3068.863	
	913	6224.680	-	+12.815	3864.023	-	+50.789	1253.473			820.455	
	912 <sup>14</sup>	6243.600	-	⊖21.406	3833.062	-	+29.442	1283.671				767.725
	11	6246.086	-	⊖18.129	3834.581	-	+24.080	1109.751				626.919
	10	6261.729	-	⊖25.043	3808.982	-	+19.855	1225.629				224.936
	7	6271.129	-	⊖18.121	3814.726	-	+8.527	606.517				266.850
	8	6279.850	-	⊖31.649	3800.455	-	+11.343	27.389				14.400
	955 <sup>15</sup>	6302.778	-	+18.579	3814.383	-	⊖82.240		8452.463		267.107	
	954 <sup>16</sup>	6261.279	-	+46.363	3882.695	-	⊖69.468		4256.720		3833.988	

控除シタル値

X=於テ 6.200

y=於テ 3.800

$\Sigma = 6559.811$   $12.709.377$   $7990.413$   $1840.830$

$2S = 8.149.586$

$6.149.583$

$S = 3074.791$

930.12 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 ⑧	955 <sup>17</sup>	6213.810	-	⊖31.473	3853.042	-	+58.316	805.344			1984.121	
	6	6246.443	-	⊖47.919	3799.641	-	+44.060	2046.279				461.987
	10	6261.729	-	+35.738	3808.982	-	⊖34.940		2156.811		6.777	
	11	6246.086	-	+18.129	3834.581	-	⊖24.080		1109.751		808.209	
	12	6243.600	-	+21.406	3833.062	-	⊖29.442		1283.671		921.785	
	13	6224.680	-	+28.630	3864.023	-	⊖24.895		616.409		2119.278	
	955 <sup>18</sup>	6214.970	-	+10.870	3857.957	-	+10.981	164.386			738.693	

控除シタル値

X=於テ 6.200

y=於テ 3.790

$\Sigma = 3016.009$   $5164.642$   $4594.742$   $2446.108$

$2S = 2148.633$

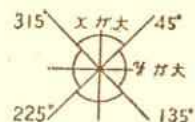
$2148.634$

$S = 1074.317$

324.98 年 月 日 印

多角点計算用紙

測量No.

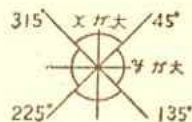


象 限	I	+	↗	+	↗
	II	-	↘	+	↘
	III	-	↙	-	↙
	IV	+	↖	-	↖

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	955 <sup>I</sup>	"		"	.			.	.	.	.	6211.957	3856.076	955 <sup>I</sup>
955 <sup>I</sup>	955 <sup>I2</sup>			301 25 43	3.553			.	.	.	.	6213.810	3853.067	955 <sup>I2</sup>
955 <sup>I2</sup>	6			"	62.583			.	.	.	.	6246.443	3799.641	6
6	1			"	16.650			.	.	.	.	6255.128	3785.134	1
1	4			"	3.226			.	.	.	.	6256.812	3782.673	4
4	2	117 18 5		"	2.768			.	.	.	.	6258.253	3780.316	2
2	949 <sup>II</sup>			"	32.556			.	.	.	.	6275.228	3752.538	949 <sup>II</sup>
949 <sup>II</sup>	949 <sup>II</sup>			"	3.522			.	.	.	.	6277.066	3749.533	949 <sup>II</sup>
949 <sup>II</sup>	949 <sup>II2</sup>			30 59 43	3.522			.	.	.	.	6280.083	3751.347	949 <sup>II2</sup>
949 <sup>II2</sup>	948 <sup>III</sup>			"	48.581			.	.	.	.	6321.727	3776.365	948 <sup>III</sup>
948 <sup>III</sup>	948 <sup>III</sup>			"	3.546			.	.	.	.	6326.765	3778.190	948 <sup>III</sup>
948 <sup>III</sup>	948 <sup>III2</sup>			121 16 42	3.546			.	.	.	.	6322.925	3781.219	948 <sup>III2</sup>
948 <sup>III2</sup>	3			"	32.806			.	.	.	.	6305.892	3809.257	3
3	5	118 7 33		"	5.998			.	.	.	.	6302.778	3816.383	5
5	6			"	16.690			.	.	.	.	6299.664	3823.509	6
6	956 <sup>N1</sup>			"	63.239			.	.	.	.	6261.279	3882.695	956 <sup>N1</sup>
956 <sup>N1</sup>	956 <sup>N</sup>			"	3.558			.	.	.	.	6259.432	3885.736	956 <sup>N</sup>
956 <sup>N</sup>	956 <sup>N2</sup>			211 59 48	3.558			.	.	.	.	6256.415	3883.851	956 <sup>N2</sup>
956 <sup>N2</sup>	13	48.862		"	37.617			.	.	.	.	6224.120	3866.023	13
13	955 <sup>I</sup>			"	11.449			.	.	.	.	6216.970	3857.957	955 <sup>I</sup>
955 <sup>I</sup>	955 <sup>I</sup>			"	3.553			.	.	.	.	6211.957	3856.076	955 <sup>I</sup>

多角点計算用紙

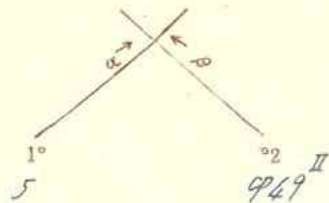
測量No. \_\_\_\_\_



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	
	948											6326765	3778190	948
948	3			121 16 42	36.350	519196	854655		18.873	31.067		6305.892	3809.257	3
3	5			"	5.998	"	"		3.114	5.126		6302.778	3814.383	5
5	8			"	26.690	"	"		8.665	16.256		6272.119	3822.137	8
8	1			"	16.660	"	"		20.725	15.077		6255.125	3785.434	1
1	4			301 25 43	13.236	521436	853291	7.687		2.761		6256.812	3786.673	4
"	6			121 25 43	16.650	"	"		8.682	14.207		6248.443	3799.641	6
6	7			31 25 43	28.930	"	"	24.686		15.085		6271.129	3814.726	7
"	10			"	17.914	"	"	15.286		9.341		6261.729	3808.982	10
10	11			121 25 43	30.000	519196	854655		15.643	25.599		6246.086	3834.581	11
11	12			211 25 43	2.914	"	"		2.436	1.519		6243.600	3833.062	12

算出点 1



$$\begin{aligned} 949'' X_2 &= -627771.0164 \\ 5 X_1 &= -630621.1778 \\ \Delta X &= -21284.1614 \end{aligned}$$

$$\begin{aligned} \alpha &= 121^\circ - 16' - 42'' \\ \beta &= 121^\circ - 85' - 43'' \\ \beta - \alpha &= 190^\circ - 69' - 01'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +133.81512 \\ \Delta X \times \textcircled{4} &= -21284.1614 \\ E &= 155.75684 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 155.17568$$

$$\begin{aligned} S_1 \times \textcircled{3} &= +133.81512 \\ X_1 &= -630621.1778 \\ X &= -628497.0164 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{4} &= -21284.1614 \\ Y_1 &= -318141.3183 \\ Y &= -317827.1569 \end{aligned}$$

$$\begin{aligned} Y_2 &= -317419.1533 \\ Y_1 &= -318141.3183 \\ \Delta Y &= -2164.1850 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.18546555 \textcircled{1} \\ \text{Sin} \alpha &= 0.17191196 \textcircled{2} \\ \text{Cos} \beta &= 0.15216361 \textcircled{3} \\ \text{sin} \beta &= 0.18532911 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.199191917 \textcircled{5} \end{aligned}$$

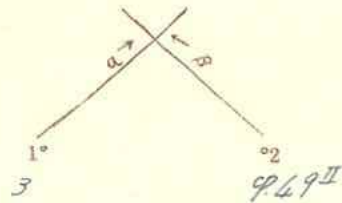
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +155.42438 \\ \Delta X \times \textcircled{2} &= -173.35061 \\ F &= 168.07377 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 168.07377$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 91211.1939 \\ X_2 &= -627771.0164 \\ X &= -628497.0164 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= +133.81512 \\ Y_2 &= -317419.1533 \\ Y &= -317827.1569 \end{aligned}$$

算出点 2



$$\begin{aligned} 949'' X_2 &= -627771.0164 \\ 3 X_1 &= -630621.1778 \\ \Delta X &= -21284.1614 \end{aligned}$$

$$\begin{aligned} \alpha &= 121^\circ - 16' - 42'' \\ \beta &= 121^\circ - 85' - 43'' \\ \beta - \alpha &= 190^\circ - 69' - 01'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +133.81512 \\ \Delta X \times \textcircled{4} &= -21284.1614 \\ E &= 155.75684 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 155.17568$$

$$\begin{aligned} S_1 \times \textcircled{3} &= +133.81512 \\ X_1 &= -630621.1778 \\ X &= -628497.0164 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{4} &= -21284.1614 \\ Y_1 &= -318141.3183 \\ Y &= -317827.1569 \end{aligned}$$

$$\begin{aligned} Y_2 &= -317419.1533 \\ Y_1 &= -318019.1533 \\ \Delta Y &= -2159.1533 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= -0.18546555 \textcircled{1} \\ \text{Sin} \alpha &= -0.17191196 \textcircled{2} \\ \text{Cos} \beta &= -0.15216361 \textcircled{3} \\ \text{sin} \beta &= -0.18532911 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.199191917 \textcircled{5} \end{aligned}$$

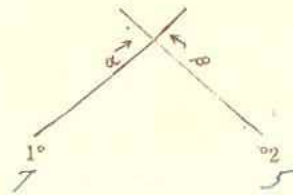
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +155.42438 \\ \Delta X \times \textcircled{2} &= -173.35061 \\ F &= 168.07377 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 168.07377$$

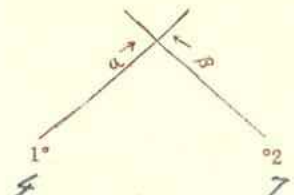
$$\begin{aligned} S_2 \times \textcircled{3} &= 91211.1939 \\ X_2 &= -627771.0164 \\ X &= -628497.0164 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= +133.81512 \\ Y_2 &= -317419.1533 \\ Y &= -317827.1569 \end{aligned}$$

算出点 8



算出点 9



$$\begin{aligned} X_2 &= -17.17 \cdot \cos 10^\circ \\ X_1 &= -17.17 \cdot \sin 10^\circ \\ \Delta X &= -17.17 \cdot \cos 10^\circ \end{aligned}$$

$$\begin{aligned} Y_2 &= -17.17 \cdot \sin 10^\circ \\ Y_1 &= -17.17 \cdot \cos 10^\circ \\ \Delta Y &= -17.17 \cdot \sin 10^\circ \end{aligned}$$

$$\begin{aligned} X_2 &= -17.17 \cdot \cos 10^\circ \\ X_1 &= -17.17 \cdot \sin 10^\circ \\ \Delta X &= -17.17 \cdot \cos 10^\circ \end{aligned}$$

$$\begin{aligned} Y_2 &= -17.17 \cdot \sin 10^\circ \\ Y_1 &= -17.17 \cdot \cos 10^\circ \\ \Delta Y &= -17.17 \cdot \sin 10^\circ \end{aligned}$$

$$\begin{aligned} \alpha &= 10^\circ - 10^\circ - 10^\circ \\ \beta &= 10^\circ - 10^\circ - 10^\circ \\ \beta - \alpha &= 10^\circ - 10^\circ - 10^\circ \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= 1 \quad \text{①} \\ \text{Sin } \alpha &= 0 \quad \text{②} \\ \text{Cos } \beta &= 1 \quad \text{③} \\ \text{Sin } \beta &= 0 \quad \text{④} \\ \text{Sin}(\beta - \alpha) &= - \quad \text{⑤} \end{aligned}$$

$$\begin{aligned} \alpha &= 10^\circ - 10^\circ - 10^\circ \\ \beta &= 10^\circ - 10^\circ - 10^\circ \\ \beta - \alpha &= 10^\circ - 10^\circ - 10^\circ \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= 1 \quad \text{①} \\ \text{Sin } \alpha &= 0 \quad \text{②} \\ \text{Cos } \beta &= 1 \quad \text{③} \\ \text{Sin } \beta &= 0 \quad \text{④} \\ \text{Sin}(\beta - \alpha) &= - \quad \text{⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +17.17 \\ \Delta X \times \text{④} &= 0 \\ E &= 17.17 \end{aligned}$$

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

$$\begin{aligned} \Delta Y \times \text{③} &= +17.17 \\ \Delta X \times \text{④} &= 0 \\ E &= 17.17 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +17.17 \\ \Delta X \times \text{②} &= +17.17 \\ F &= 17.17 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 17.17$$

$$S_2 = \frac{F}{\text{⑤}} = 0$$

$$S_1 = \frac{E}{\text{⑤}} = 17.17$$

$$S_2 = \frac{F}{\text{⑤}} = 17.17$$

$$\begin{aligned} S_1 \times \text{①} &= 17.17 \\ X_1 &= -17.17 \\ X &= -17.17 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= 0 \\ X_2 &= -0 \\ X &= -0 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{①} &= 17.17 \\ X_1 &= -17.17 \\ X &= -17.17 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= 17.17 \\ X_2 &= -17.17 \\ X &= -17.17 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 0 \\ Y_1 &= -0 \\ Y &= -0 \end{aligned}$$

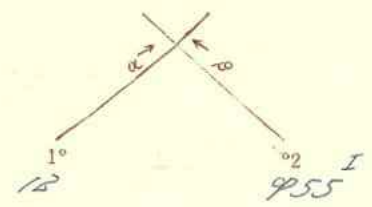
$$\begin{aligned} S_2 \times \text{④} &= 0 \\ Y_2 &= -0 \\ Y &= -0 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 0 \\ Y_1 &= -0 \\ Y &= -0 \end{aligned}$$

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

31

算出点 13



$$\begin{aligned} 955 X_2 &= -62111.1957 \\ 12 X_1 &= -6243.6000 \\ \hline \Delta X &= -11311.6443 \end{aligned}$$

$$\begin{aligned} Y_2 &= -3956.0174 \\ Y_1 &= -3873.0668 \\ \hline \Delta Y &= -112.9506 \end{aligned}$$

$$\begin{aligned} \alpha &= 121^\circ - 25' - 43'' \\ \beta &= 121^\circ - 55' - 48'' \\ \beta - \alpha &= 190^\circ - 34' - 05'' \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= 0.521111111 \text{ ①} \\ \text{Sin } \alpha &= 0.854375000 \text{ ②} \\ \text{Cos } \beta &= 0.184810179 \text{ ③} \\ \text{Sin } \beta &= 0.982987100 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.999999999 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 1119.51199 \\ \Delta X \times \text{④} &= 1118.176668 \\ \hline E &= 1196.28867 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= 0.111.099999 \\ \Delta X \times \text{②} &= 0.117.000000 \\ \hline F &= 119.100000 \end{aligned}$$

$$S_1 = \frac{|E|}{\text{⑤}} = 1196.28867$$

$$S_2 = \frac{|F|}{\text{⑤}} = 119.100000$$

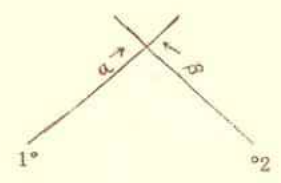
$$\begin{aligned} S_1 \times \text{①} &= 0.1118.1920 \\ X_1 &= -6243.6000 (+) \\ \hline X &= -6243.6000 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= 7.1118.1723 \\ X_2 &= -62111.1957 (+) \\ \hline X &= -62734.7957 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= 1.1190.1961 \\ Y_1 &= -3873.0668 (+) \\ \hline Y &= -3873.0668 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= 7.1117.1949 \\ Y_2 &= -3956.0174 (+) \\ \hline Y &= -3956.0174 \end{aligned}$$

算出点



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

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

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

$$\begin{aligned} \text{Cos } \alpha &= \\ \text{Sin } \alpha &= \\ \text{Cos } \beta &= \\ \text{Sin } \beta &= \\ \text{Sin}(\beta - \alpha) &= \end{aligned}$$

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

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

$$S_1 = \frac{|E|}{\text{⑤}} =$$

$$S_2 = \frac{|F|}{\text{⑤}} =$$

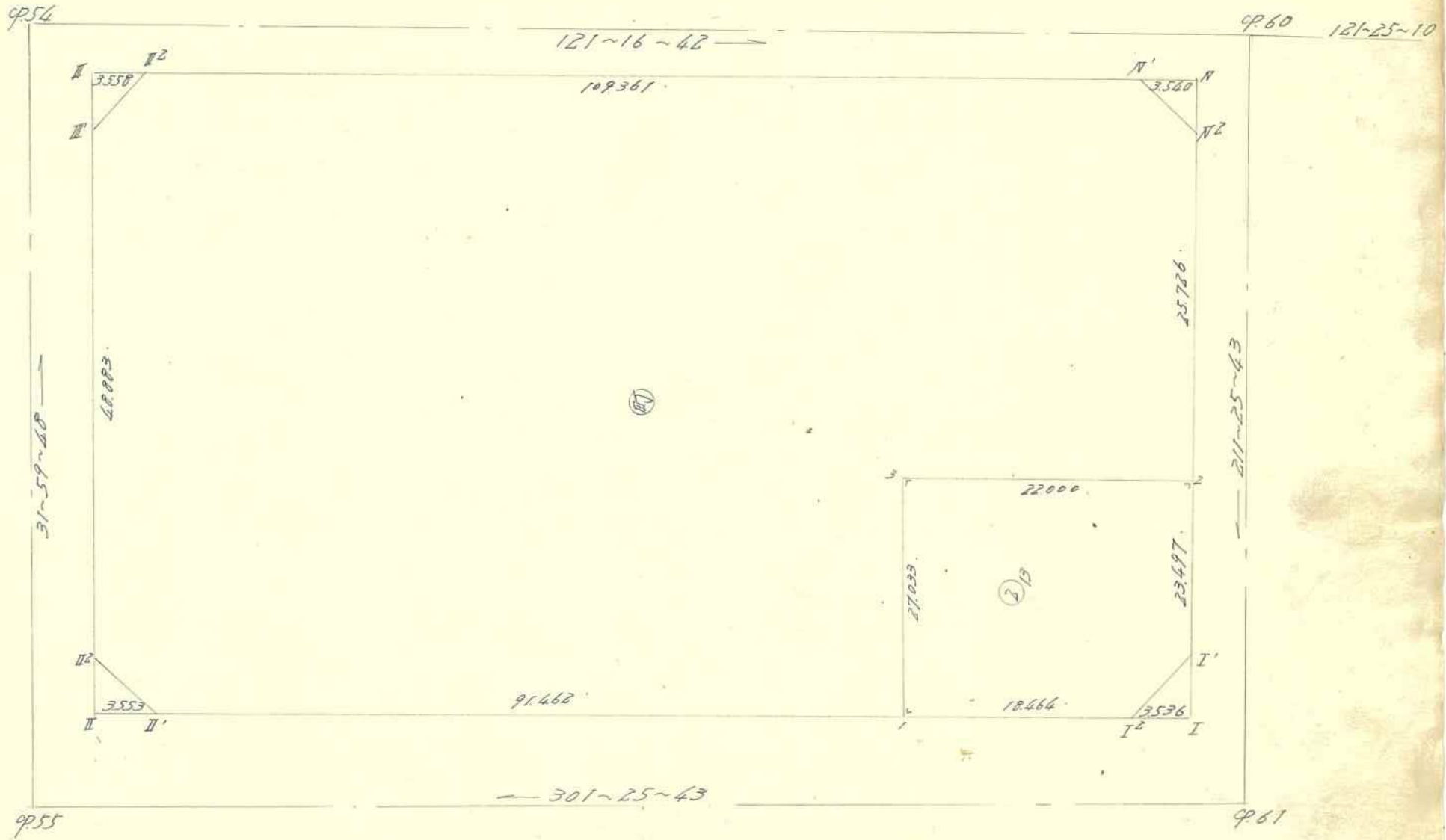
$$\begin{aligned} S_1 \times \text{①} &= - \\ X_1 &= - \\ \hline X &= - \end{aligned}$$

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

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

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

32

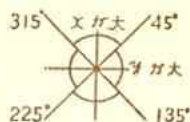


# 各筆面積計算集計表

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		
32	②	588.479	.17801	✓						
	④	5940.661	.179705	✓						
					計					
						m <sup>2</sup>		坪		
						ブロック計算= 6529.067		ブロック計算= 1975.04		
						各筆集計= 6529.140(-		各筆集計= 1975.06(-		
						ε = .073		ε = .02		

協和建設測量



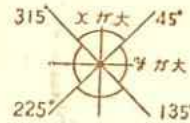


象 限	I	+	+	+
	II	-	-	+
	III	-	-	-
	IV	+	+	-

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	
	CP61 <sup>I</sup>											6147.812	3961.041	CP61 <sup>I</sup>
CP61 <sup>I</sup>	CP61 <sup>I2</sup>			301 25 43	3.536							6147.656	3958.024	CP61 <sup>I2</sup>
CP61 <sup>I2</sup>	CP55 <sup>II</sup>	109 26			118.464							6159.283	3944.268	CP55 <sup>II</sup>
CP55 <sup>II</sup>	CP55 <sup>II2</sup>				91.462							6206.976	3864.226	CP55 <sup>II2</sup>
CP55 <sup>II2</sup>	CP55 <sup>II2</sup>				3.553							6208.829	3861.194	CP55 <sup>II2</sup>
CP55 <sup>II2</sup>	CP55 <sup>II2</sup>			31 59 48	3.553							6211.842	3863.077	CP55 <sup>II2</sup>
CP55 <sup>II2</sup>	CP54 <sup>III</sup>				48.883							6253.299	3888.978	CP54 <sup>III</sup>
CP54 <sup>III</sup>	CP54 <sup>III</sup>				3.558							6256.316	3890.864	CP54 <sup>III</sup>
CP54 <sup>III</sup>	CP54 <sup>III2</sup>				121 16 42							6254.469	3893.905	CP54 <sup>III2</sup>
CP54 <sup>III2</sup>	CP60 <sup>IV</sup>				109.361							6197.690	3987.372	CP60 <sup>IV</sup>
CP60 <sup>IV</sup>	CP60 <sup>IV</sup>				3.540							6195.852	3990.397	CP60 <sup>IV</sup>
CP60 <sup>IV</sup>	CP60 <sup>IV2</sup>			211 25 43	3.540							6192.831	3988.551	CP60 <sup>IV2</sup>
CP60 <sup>IV2</sup>	CP61 <sup>I</sup>	49 22 3			25.786							6170.879	3975.137	CP61 <sup>I</sup>
CP61 <sup>I</sup>	CP61 <sup>I</sup>				23.497							6150.829	3962.885	CP61 <sup>I</sup>
CP61 <sup>I</sup>	CP61 <sup>I</sup>				3.536							6147.812	3961.041	CP61 <sup>I</sup>

多角点計算用紙

測量No. \_\_\_\_\_



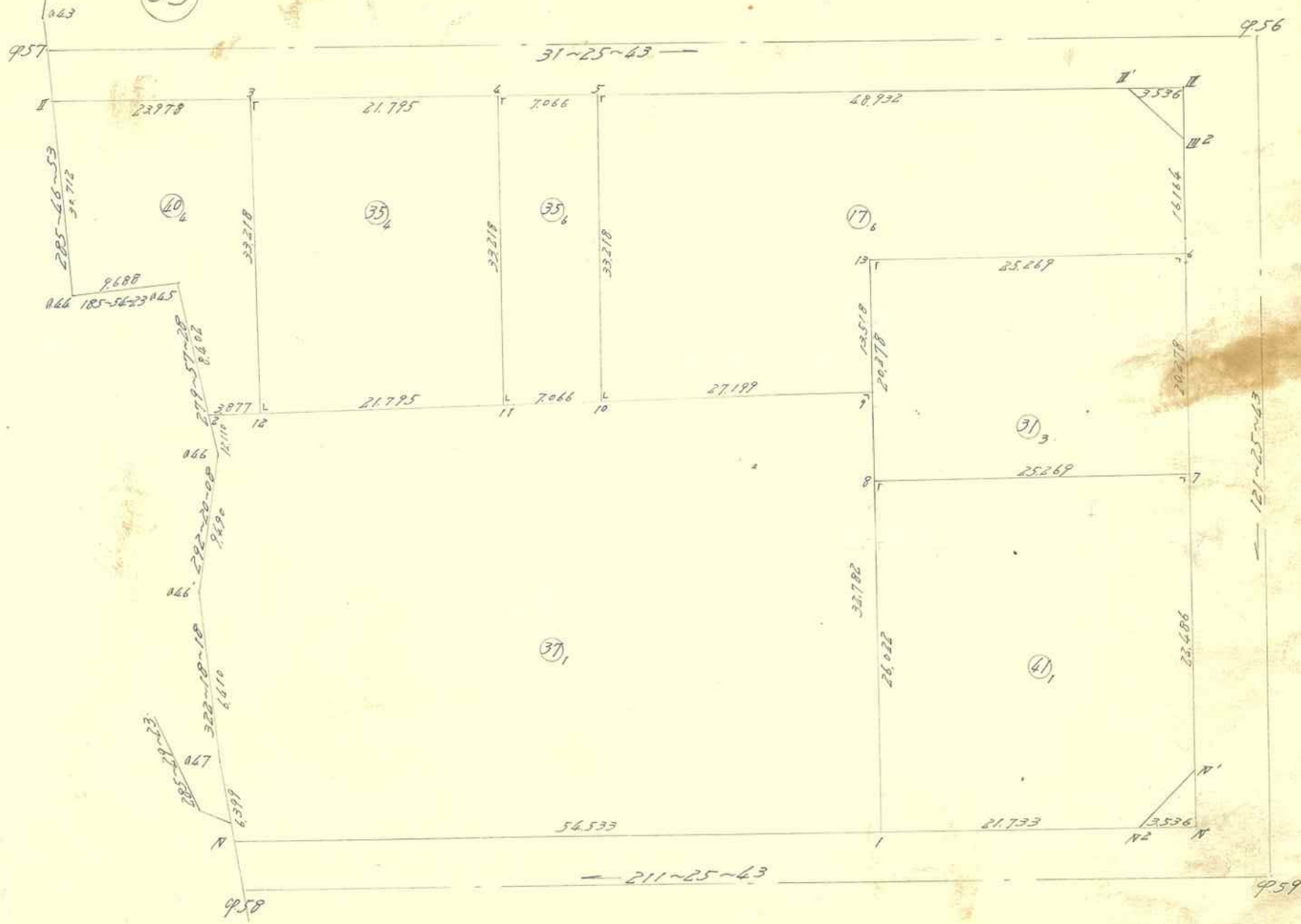
象限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

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	
	9961 <sup>I</sup>	° 1 "		° 1 "	.			.	.	.	.	6147.812	3961.061	9961 <sup>I</sup>
9961 <sup>I</sup>	1			301 25 43	22.000	521423	853298	11.471	.	18.773	.	6159.283	3942.268	1
1	3			31 25 43	27.033	"	"	23.067	.	14.096	.	6182.350	3956.364	3
3	2			121 25 43	22.000	"	"	.	11.471	18.773	.	6170.879	3975.137	2
	9954 <sup>II</sup>				.			.	.	.	.			
9954 <sup>II</sup>	4			211 59 48	25.294	529870	848079	.	21.451	.	13.413	6253.299	3888.978	9954 <sup>III</sup>
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			
					.			.	.	.	.			

245

協和建設測量

33





面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 ④ <sub>1</sub>	959 <sup>12</sup>	6,169,469	-	+ 23,406	3,888,136	-	+ 10,169	705,736	,	2,066,911	,	
	1	6,150,924	-	+ 4,976	3,876,804	-	+ 37,536	1,707,787	,	388,177	,	
	8	6,164,493	-	+ 3,513	3,854,600	-	+ 9,028	582,243	,	,	1,918,153	
	7	6,186,055	-	+ 9,837	3,867,776	-	+ 32,363	,	2,784,998	,	666,713	
	959 <sup>11</sup>	6,174,330	-	+ 16,586	3,886,963	-	+ 20,360	,	1,513,359	1,442,368	,	
	,	,	-	-	,	-	,	,	,	,	,	,
								$\Sigma =$	2,995,766	4,298,357	3,887,456	2,584,866
								$2S =$	1,302,591		1,302,590	
								$S =$	651,295			

控除シタル値

X = 於テ 6,100

y = 於テ 3,800

197.02<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)	+	-	+	-	
筆番号 ⑤ <sub>3</sub>	7	6,186,055	-	+ 32,136	3,867,776	-	+ 4,127	,	3,55,149	2,178,050	,	
	8	6,164,493	-	+ 10,988	3,854,600	-	+ 30,479	1,965,682	,	599,965	,	
	13	6,175,067	-	+ 32,136	3,837,297	-	+ 4,127	309,802	,	,	1,198,576	
	6	6,196,629	-	+ 10,988	3,850,473	-	+ 30,479	,	2,965,155	,	554,597	
								$\Sigma =$	2,275,484	3,300,304	2,777,995	1,753,173
								$2S =$	1,024,820		1,024,822	
								$S =$	512,411			

控除シタル値

X = 於テ 6,100

y = 於テ 3,800

155.00<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)	+	-	+	-
筆番号 ③⑦	1	6.150.924	-	+ 63	6263.876.804	-	+ 463	23.578		4.886.731	
	958 <sup>#1</sup>	6.104.392	-	+ 44	8233.848.369	-	+ 34	602	151.972	2.168.044	
	047	6.106.101	-	0	6.7813.842.202	-	+ 10	086	61.535		286.172
	046'	6.111.173	-	0	8.6793.838.283	-	+ 12	696	141.852		332.258
	046	6.114.780	-	0	5.7013.829.506	-	+ 20	704	306.005		168.214
	2	6.116.874	-	0	53.2383.817.579	-	0	19.326		326.107	935.871
	9	6.168.018	-	0	34.0503.848.832	-	0	59.225		4028.366	1.662.730
			-	-		-	-				
			-	-		-	-				

控除シタル値

Xニ於テ 6.100

yニ於テ 3.800

$$\bar{x} = 684 \quad 942 \quad 4.354 \quad 473 \quad 7054 \quad 775 \quad 3385 \quad 265$$

$$2S = 3669.531 \quad 3.669.530$$

$$S = 1.834.765$$

555.0249 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 ①⑦	6	6.196.629	-	+ 29	9903.850.473	-	0	617		59.620	1.513.685
	13	6.175.067	-	+ 20	6113.837.297	-	+ 1	641	123.185		1.067.106
	9	6.168.018	-	+ 30	2483.848.832	-	+ 2	648	180.112		1.477.559
	10	6.144.809	-	+ 5	8083.834.649	-	+ 42	528	1.905.637		206.013
	5	6.162.130	-	0	49.0753.806.304	-	+ 2	830	175.828		372.409
	956 <sup>#1</sup>	6.203.886	-	0	42.9273.831.819	-	0	30376		3155.580	1.365.896
	956 <sup>#2</sup>	6.205.057	-	+ 7	2433.836.680	-	0	18.654		1.959.733	266.113
			-	-		-	-				
			-	-		-	-				

控除シタル値

Xニ於テ 6.100

yニ於テ 3.800

$$\bar{x} = 2384 \quad 762 \quad 5174 \quad 933 \quad 4.528 \quad 474 \quad 1.738 \quad 303$$

$$2S = 2.790.171 \quad 2.790.171$$

$$S = 1.395.085$$

422.0149 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ② <sub>6</sub>	10	6.144.809	-	↑ 23.350 3.836.649	-	↓ 24.661	924.661		1105.035	809.056	
	11	6.138.780	-	⊖ 11.292 3.830.965	-	+ 32.029	1242.085				349.657
	4	6.156.101	-	⊖ 23.350 3.802.620	-	+ 24.661	1.383.507				61.177
	5	6.162.130	-	↑ 11.292 3.806.304	-	⊖ 32.029		1.989.962	71.185		
				-		-					

控除シタル値

X=於テ 6.100

y=於テ 3.800

$\Sigma = 2625.592 \quad 3.094.997 \quad 880.239 \quad 410.836$

$2S = 469.405 \quad 469.405$

S = 234.703

印

年 月 日

71.00<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)	+	-	+	-
筆番号 ② <sub>4</sub>	11	6.138.780	-	↑ 35.918 3.830.965	-	⊖ 16.980		658.484	4.704.001		
	12	6.120.183	-	+ 1.276 3.819.600	-	+ 39.710	801.467		152.610		
	3	6.137.504	-	⊖ 35.918 3.791.255	-	+ 16.980	636.818			3.277.697	
	4	6.156.101	-	⊖ 1.276 3.802.620	-	⊖ 39.710		2.227.771		130.943	

控除シタル値

X=於テ 6.100

y=於テ 3.700

$\Sigma = 1438.285 \quad 2.886.255 \quad 4.856.611 \quad 3.408.640$

$2S = 1447.970 \quad 1.447.971$

S = 723.985

印

年 月 日

21900<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)	+	-	+	-
筆番号 ⑩	12	6.120.183	-	+ 20.630	3819.600	-	9.263				
	2	6.116.874	-	+ 1.256	3817.579	-	+ 10.297	173.752		218.227	
	a45	6.118.327	-	+ 8.184	3809.303	-	+ 9.273	169.946		896.536	
	a44	6.108.690	-	+ 1.284	3808.306	-	+ 30.551	265.488		139.065	
	957	6.117.063	-	9 28.214	3778.752	-	+ 17.051	290.600			2269.160
	3	6.137.504	-	9 3.140	3791.255	-	9 40.848		1531.963		2286.541

控除シタル値

Xニ於テ 6.100

yニ於テ 3.700

M = 899 786 2063 260 3719 176 2555 701

2S = 1163.474

1163.475

S = 581.737

175.974

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)	+	-	+	-
筆番号 ○			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

Xニ於テ

yニ於テ

M =

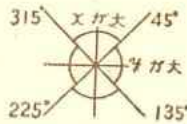
2S =

S =

印  
日  
月  
年

多角点計算用紙

測量No. \_\_\_\_\_



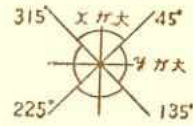
象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

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	
	459 <sup>N</sup>	1	"	1	"									
459 <sup>N</sup>	459 <sup>N</sup>			211 25 43	3.536							6178.486	3889.980	459 <sup>N</sup>
459 <sup>N</sup>	1	76.266		"	21.733							6169.469	3888.136	459 <sup>N</sup>
1	458 <sup>N</sup>			"	54.533							6150.924	3876.804	1
458 <sup>N</sup>	0.47			285 29 23	6.399							6104.392	3848.369	458 <sup>N</sup>
0.47	0.46			322 18 18	6.410							6106.101	3842.202	0.47
0.46	0.46			292 20 08	9.490							6111.173	3838.283	0.46
0.46	2	20.512		279 57 28	12.110							6114.780	3829.506	0.46
2	0.45			"	8.402							6116.874	3817.579	2
0.45	0.44			185 54 23	9.688							6118.327	3809.303	0.45
0.44	457 <sup>II</sup>			285 46 53	30.712							6108.690	3808.306	0.44
457 <sup>II</sup>	3			31 25 43	23.978							6117.043	3778.752	457 <sup>II</sup>
3	4	101.771		"	21.795							6137.504	3791.255	3
4	5			"	7.066							6156.101	3802.620	4
5	456 <sup>III</sup>			"	48.932							6162.130	3806.304	5
456 <sup>III</sup>	456 <sup>III</sup>			"	3.536							6203.884	3831.819	456 <sup>III</sup>
456 <sup>III</sup>	456 <sup>III</sup>			121 25 43	3.536							6206.901	3833.663	456 <sup>III</sup>
456 <sup>III</sup>	6			"	16.164							6205.057	3836.680	456 <sup>III</sup>
6	7	58.928		"	20.278							6196.629	3852.473	6
7	459 <sup>N</sup>			"	22.486							6186.055	3847.776	7
459 <sup>N</sup>	459 <sup>N</sup>			"	3.536							6174.330	3886.963	459 <sup>N</sup>
												6172.486	3889.980	459 <sup>N</sup>

協和建設測量

多角点計算用紙

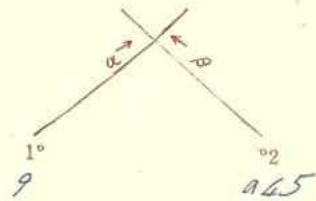
測量No. \_\_\_\_\_



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

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	459 <sup>#</sup>				.			.	.	.	.	6172.486	3889.980	459 <sup>#</sup>
459 <sup>#</sup>	7			301 25 43	26.022	521436	853291	13.569	.	.	22.204	6186.055	3867.776	7
7	6			"	20.278	"	"	10.576	.	.	17.303	6196.629	3850.473	6
6	13			211 25 43	25.269	"	"	21.562	.	.	13.176	6175.067	3837.297	13
13	8			121 25 43	20.278	"	"	10.576	17.303	.	.	6166.493	3854.600	8
8	1			"	26.022	"	"	13.569	22.204	.	.	6150.924	3876.804	1
					56.123			.	46.123	.	24.231	6104.392	3868.369	459 <sup>#</sup>
	8				.			.	.	.	.	6166.493	3854.600	8
8	9			301 25 43	6.760	521436	853291	3.525	.	.	5.768	6168.018	3848.837	9
9	10			211 25 43	27.199	"	"	23.209	.	.	14.183	6144.809	3834.649	10
10	5			301 25 43	33.218	"	"	17.321	.	.	28.365	6162.130	3806.304	5
5	4			211 25 43	7.066	"	"	6.029	.	.	3.684	6156.101	3802.620	4
4	11			121 25 43	33.218	"	"	17.321	28.365	.	.	6138.780	3830.965	11
11	12			211 25 43	21.795	"	"	18.597	.	.	11.365	6120.183	3819.600	12
12	3			301 25 43	33.218	"	"	17.321	.	.	28.365	6137.504	3791.255	3
				211	23.978			.	20.460	.	14.563	6117.043	3778.752	459 <sup>#</sup>

算出点 2



$$\begin{aligned} 0.65 X_2 &= -611181.1327 \\ 9 X_1 &= -611618.10118 \\ \Delta X &= -1469.0691 \end{aligned}$$

$$\begin{aligned} \alpha &= 121^\circ - 25' - 45'' \\ \beta &= 199^\circ - 54' - 28'' \\ \beta - \alpha &= 168^\circ - 31' - 45'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +1116.89523 \\ \Delta X \times \textcircled{4} &= -1469.0691 \\ E &= 1515.17784 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 1519.19376$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 9 \quad 1519.19376 \\ X_1 &= -611618.10118 \\ X &= -611161.874 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 9 \quad 1519.19376 \\ Y_1 &= -318168.1832 \\ Y &= -318171.5719 \end{aligned}$$

$$\begin{aligned} Y_2 &= -318019.1303 \\ Y_1 &= -318168.1832 \\ \Delta Y &= -149.0529 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.1853291 \quad \textcircled{1} \\ \text{Sin} \alpha &= 0.5211436 \quad \textcircled{2} \\ \text{Cos} \beta &= 0.1172922 \quad \textcircled{3} \\ \text{Sin} \beta &= 0.1984935 \quad \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.93106104 \quad \textcircled{5} \end{aligned}$$

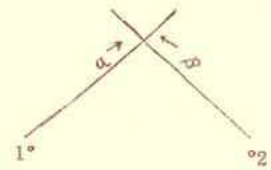
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +137.72976 \\ \Delta X \times \textcircled{2} &= +125.191068 \\ F &= 117.81906 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 118.4021$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 9 \quad 118.4021 \\ X_2 &= -611181.1327 \\ X &= -611161.874 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 9 \quad 118.4021 \\ Y_2 &= -318019.1303 \\ Y &= -318171.5719 \end{aligned}$$

算出点  



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

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

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

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

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

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

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

$$\begin{aligned} \text{Cos} \alpha &= - \\ \text{Sin} \alpha &= - \\ \text{Cos} \beta &= - \\ \text{Sin} \beta &= - \\ \text{Sin}(\beta - \alpha) &= - \end{aligned}$$

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

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

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

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





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 <sub>2</sub>	961 <sup>N2</sup>	6,131.143	-	+ 24.595	3,950.853	-	+ 10.886	339.023		3,710.230		
	1	6,111.409	-	+ 7.519	3,938.794	-	+ 56.655	1,646.377			1,043.592	
	16	6,138.662	-	+ 50.004	3,894.198	-	+ 30.693	1,186.653			4,710.277	
	915	6,161.413	-	+ 2.658	3,908.101	-	+ 55.482		3,407.316	287.338		
	961 <sup>N</sup>	6,136.004	-	+ 30.270	3,949.680	-	+ 42.752		1,539.243	4,530.814		
			-	-		-	-					
			-	-		-	-					

控除シタル値

X = 於テ 6.100

y = 於テ 3.800

$$\bar{X} = \frac{2,172.053}{2} = 1,086.0265$$

$$2S = 2,774.506$$

$$S = 1,387.253$$

419.64<sup>年</sup> 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ② <sub>1</sub>	1	6,111.409	-	+ 50.923	3,938.794	-	+ 47.987		5,346.186	7,067.807	
	2	6,095.684	-	+ 1.873	3,929.184	-	+ 38.409	3,675.127			241.962
	10	6,113.282	-	+ 12.691	3,900.385	-	+ 31.797	3,602.028			1,293.986
	12	6,108.375	-	+ 12.691	3,897.387	-	+ 31.797	3,446.000			1,235.938
	8	6,125.973	-	+ 38.232	3,868.588	-	+ 16.190	2,039.503			2,622.256
	9	6,146.607	-	+ 14.564	3,881.197	-	+ 70.206		10,392.691	1,782.553	
			-	-		-	-				

控除シタル値

X = 於テ 6.000

y = 於テ 3.800

$$\bar{X} = \frac{12,762.658}{2} = 6,381.329$$

$$2S = 2,876.217$$

$$S = 1,438.109$$

435.03<sup>年</sup> 年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号	2	6.095.684	-	7 19.3533.929.184	-	9 27.726				2.652.935	2.500.098	
②	3	6.093.929	-	9 15.8433.928.111	-	7 29.872	2.805.847					2.029.663
	11	6.111.527	-	9 19.3533.899.312	-	7 27.726	3.092.198					1.921.985
	10	6.113.282	-	7 15.8433.900.385	-	9 29.872			3.383.960	1.590.400		

控除シタル値

X=於テ 6.000

y=於テ 3.800

$$\Sigma = 5.898.045 \quad 6.036.895 \quad 4.090.498 \quad 3.951.648$$

$$2S = 138.850$$

$$138.850$$

$$S = 69.425$$

21.00<sup>㊦</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号	3	6.093.929	-	7 22.7203.928.111	-	9 26.632				2.607.588	2.918.369	
③	4	6.088.747	-	9 12.4163.926.966	-	7 31.966	2.836.887					1.551.305
	13	6.106.365	-	9 22.7203.896.145	-	7 26.632	2.725.835					2.190.183
	11	6.111.527	-	7 12.4163.899.312	-	9 31.966			3.565.072	1.233.058		

控除シタル値

X=於テ 6.000

y=於テ 3.800

$$\Sigma = 5.562.722 \quad 5.972.660 \quad 4.151.427 \quad 3.741.488$$

$$2S = 409.938$$

$$409.938$$

$$S = 204.969$$

22.00<sup>㊦</sup>

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ②	4	6088.747	-	7 30 113 3926.944	-	9 21.154			1877.354	3762.439	
	④ 6.5	6076.232	-	7 31 562 3917.299	-	7 22 864 1819.200				417.819	
	a.50	6085.185	-	9 20 154 3901.080	-	7 27 239 2320.354					2037.267
	5	6096.387	-	9 21 160 3890.060	-	7 4 935 475.670					1905.670
	13	6106.345	-	7 7 640 3896.145	-	9 34 884		3709.739	734.548		

控除シタル値

X=於テ 6000

y=於テ 3800

$$\bar{X} = 4.615 \ 224 \ 5.587 \ 093 \ 4914 \ 806 \ 3942 \ 937$$

$$2S = 971.869 \quad 971.869$$

$$S = 485.934$$

147.00<sup>坪</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 ④	12	6108.375	-	7 21.527 3897.387	-	9 26.398			221.083	2096.450	
	14	6106.446	-	9 13 669 3894.986	-	7 31 200 138.715					1298.364
	7	6122.044	-	9 21.527 3866.187	-	7 26.398 581.918					1424.808
	8	6125.973	-	7 13 669 3868.588	-	9 31 200		810.358	937.529		

控除シタル値

X=於テ 6100

y=於テ 3800

$$\bar{X} = 720 \ 633 \ 1.031 \ 441 \ 3033 \ 979 \ 2723 \ 172$$

$$2S = 310.808 \quad 310.808$$

$$S = 155.404$$

47.01<sup>坪</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 ④ <sub>3</sub>	14	6.106.466	-	+ 25 6573894.986	-	-	9 23.873			2,493,439	2,437,056		
	5	6.096.387	-	+ 3 3363890.060	-	-	+ 9.571 928.520				300,460		
	a.49'	6.101.110	-	⊖ 19 7193885.415	-	-	+ 27.501 2780.626					1,684,298	
	6	6.116.106	-	⊖ 20 9343862.559	-	-	+ 19 228 2,232.486					1,309,810	
	7	6.122.066	-	+ 11 6603866.187	-	-	⊖ 32.427			3,957,521	771,740		
			-	-	-	-	-						
			-	-	-	-	-						

控除シタル値

Xニ於テ 6.000

yニ於テ 3.800

$\Sigma = 5,935,838 \quad 6,450,960 \quad 3,509,236 \quad 2,993,908$

$2S = 515,328 \quad 515,328$

S = 257,664

77.96年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 ④ <sub>5</sub>	a.49'	6.101.110	-	+ 12 9093885.415	-	-	⊖ 16.205			1,638,488	1,102,622	
	a.49	6.103.197	-	+ 2 1163878.764	-	-	+ 17.668 1,812.965				166,665	
	a.48	6.098.996	-	+ 4 713867.847	-	-	+ 24.321 2,413.573				31,956	
	⊙ 58'	6.102.726	-	⊖ 17 1123854.383	-	-	+ 6.208 543.215					930,602
	6	6.116.106	-	+ 1 6163862.559	-	-	⊖ 31.032			3,603,001	101,095	

控除シタル値

Xニ於テ 6.000

yニ於テ 3.800

$\Sigma = 6,769,753 \quad 5,261,489 \quad 1,402,338 \quad 930,602$

$2S = 471,736 \quad 471,736$

S = 235,868

71.35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)	+	-	+	-
34 筆番号	15	6,161.413	-	+ 28,852.3908,101	-	-	+ 3,919	123,108	,	810,770	,
(株)	16	6,138.662	-	+ 14,806.3894,198	-	-	+ 26,904	233,042	,	210,216	,
	9	6,146.607	-	+ 27,679.3881,197	-	-	+ ,942	15,644	,	, 33,132	,
	957	6,166.341	-	+ 20,907.3893,256	-	-	+ 16,920	,	614,890	,	277,143
	959	6,167.514	-	+ 4,928.3898,117	-	-	+ 14,865	,	556,895	89,281	,
	,	,	-	,	,	-	,	,	,	,	,

控除シタル値

Xニ於テ 6,130

Yニ於テ 3,880

$\Sigma = \underline{371,794} \quad \underline{1,171,785} \quad \underline{1,110,267} \quad \underline{310,275}$

$2S = \underline{799,991} \quad \underline{799,992}$

$S = \underline{399,996}$

121.00<sup>坪</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	○	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	,	,	-	-	,	-	-	,	,	,	,
	5	,	-	-	,	-	-	,	,	,	,

控除シタル値

Xニ於テ

Yニ於テ

$M =$

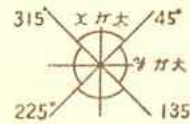
$2S =$

$S =$

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



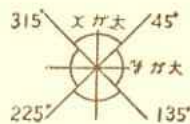
象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	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	
	φ61 <sup>N</sup>											6136.160	3952.697	φ61 <sup>N</sup>
φ61 <sup>N</sup>	φ61 <sup>N2</sup>			211 25 43	3.536							6131.143	3950.853	φ61 <sup>N2</sup>
φ61 <sup>N2</sup>	1				23.127							6111.409	3938.794	1
1	2				78.428							6095.684	3929.186	2
2	3	64.351			2.057							6093.929	3928.111	3
3	4				6.073							6088.747	3926.944	4
4	φ62 <sup>N</sup>				14.666							6076.232	3917.299	φ62 <sup>N</sup>
φ62 <sup>N</sup>	0.50			298 53 55	18.526							6085.185	3901.080	0.50
0.50	5	22.339		315 28 08	15.713							6096.387	3890.060	5
5	0.49				6.626							6101.110	3885.415	0.49
0.49	0.49			287 24 48	6.972							6103.197	3878.764	0.49
0.49	0.48			248 56 53	11.699							6098.994	3867.867	0.48
0.48	φ58 <sup>II</sup>			285 29 23	13.972							6102.726	3854.383	φ58 <sup>II</sup>
φ58 <sup>II</sup>	6			31 25 43	15.680							6116.106	3862.559	6
6	7				6.960							6120.046	3866.187	7
7	8	74.552			4.606							6125.973	3868.588	8
8	9				24.181							6146.607	3881.197	9
9	φ59 <sup>III</sup>				23.127							6166.341	3893.256	φ59 <sup>III</sup>
φ59 <sup>III</sup>	φ59 <sup>III2</sup>				3.536							6169.358	3895.100	φ59 <sup>III2</sup>
φ59 <sup>III2</sup>	φ59 <sup>III2</sup>			121 25 43	3.536							6167.516	3898.117	φ59 <sup>III2</sup>
φ59 <sup>III2</sup>	15	60.428			11.700							6167.413	3908.101	15
φ15	φ61 <sup>IV</sup>				48.728							6136.004	3948.680	φ61 <sup>IV</sup>
φ61 <sup>IV</sup>	φ61 <sup>IV</sup>				3.536							6136.160	3952.697	φ61 <sup>IV</sup>

協和建設測量

多角点計算用紙

測量No. \_\_\_\_\_

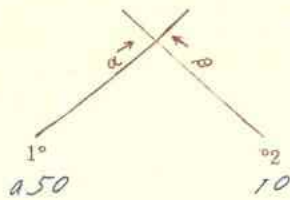


象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

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	
	φ58 <sup>II</sup>											6102.726	3854.383	φ58 <sup>II</sup>
φ58 <sup>II</sup>	6			31 25 43	15.680	521436	853291	13.380		8.176		6116.106	3862.559	6
					5.945							6134.160	3952.697	φ61 <sup>IV</sup>
φ61 <sup>IV</sup>	1			211 25 43	26.663	521436	853291		22.751		13.903	6111.409	3928.794	1
1	2				78.428				15.724		9.609	6095.684	3929.184	2
2	10			301 25 43	33.750			17.598			28.799	6113.282	3900.385	10
10	11			211 25 43	2.057				1.755		1.073	6111.527	3899.312	11
11	3			121 25 43	33.750				17.598	28.799		6093.929	3928.111	3
3	4			211 25 43	6.073				5.182		3.167	6088.747	3924.944	4
4	13			301 25 43	33.750			17.598			28.799	6106.345	3896.145	13
13	5				11.670							6096.387	3890.160	5
	φ59 <sup>III</sup>											6169.358	3895.100	φ59 <sup>III</sup>
φ59 <sup>III</sup>	9			211 25 43	26.663	521436	853291		22.751		13.903	6146.607	3881.197	9
9	8				24.181				20.633		12.609	6125.973	3868.588	8
8	12			121 25 43	33.750				17.598	28.799		6108.375	3897.387	12
12	14			211 25 43	4.604				3.929		2.401	6104.446	3894.986	14
14	7			301 25 43	33.750			17.598			28.799	6122.044	3866.187	7
φ59 <sup>III</sup>	15			121 25 43	15.236				17.945	13.001		6161.413	3908.101	15
15	16			211 25 43	26.663				22.751		13.903	6138.662	3894.198	16

協和建設測量

算出点 5



$$\begin{aligned} 10 X_2 &= - \underline{611131.2182} \\ 450 X_1 &= - \underline{610851.1185} \quad ( \\ \Delta X &= - \underline{1281.0197} \end{aligned}$$

$$\alpha = 135 - 88 - 08''$$

$$\beta = 215 - 85 - 43''$$

$$\beta - \alpha = 175 - 57 - 13''$$

$$\begin{aligned} Y_2 &= - \underline{319101.13185} \\ Y_1 &= - \underline{319011.101810} \quad ( \\ \Delta Y &= - \underline{9111.1695} \end{aligned}$$

$$\begin{aligned} \cos \alpha &= + \underline{0.171128710} \quad \textcircled{1} \\ \sin \alpha &= 0 \underline{.17112196} \quad \textcircled{2} \\ \cos \beta &= 0 \underline{.18532911} \quad \textcircled{3} \\ \sin \beta &= 0 \underline{.56716361} \quad \textcircled{4} \\ \sin(\beta - \alpha) &= - \underline{.19710125} \quad \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + \underline{1111.119304} \\ \Delta X \times \textcircled{4} &= 0 \underline{1181.85079} \quad ( \\ E &= \underline{1111.22393} \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = \underline{1151.17137}$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + \underline{1111.12102} \\ X_1 &= - \underline{610851.1185} \quad (+) \\ X &= - \underline{610916.13187} \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 0 \underline{1111.10220} \\ Y_1 &= - \underline{319011.101810} \quad (+) \\ Y &= - \underline{318910.101610} \end{aligned}$$

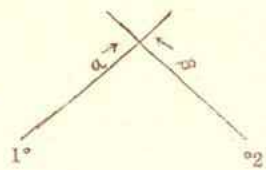
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 0 \underline{1111.119304} \\ \Delta X \times \textcircled{2} &= 0 \underline{1119.170631} \quad ( \\ F &= \underline{1119.20897} \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{5}} = \underline{1119.20104}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 0 \underline{1111.1816} \\ X_2 &= - \underline{611131.2182} \quad (+) \\ X &= - \underline{610916.13187} \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \underline{1111.1325} \\ Y_2 &= - \underline{319101.13185} \quad (+) \\ Y &= - \underline{318910.101610} \end{aligned}$$

算出点  



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

$$\alpha = \underline{\quad\quad\quad}''$$

$$\beta = \underline{\quad\quad\quad}''$$

$$\beta - \alpha = \underline{\quad\quad\quad}''$$

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

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

$$S_1 = \frac{|E|}{\textcircled{5}} = \underline{\quad\quad\quad}$$

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

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

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

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

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

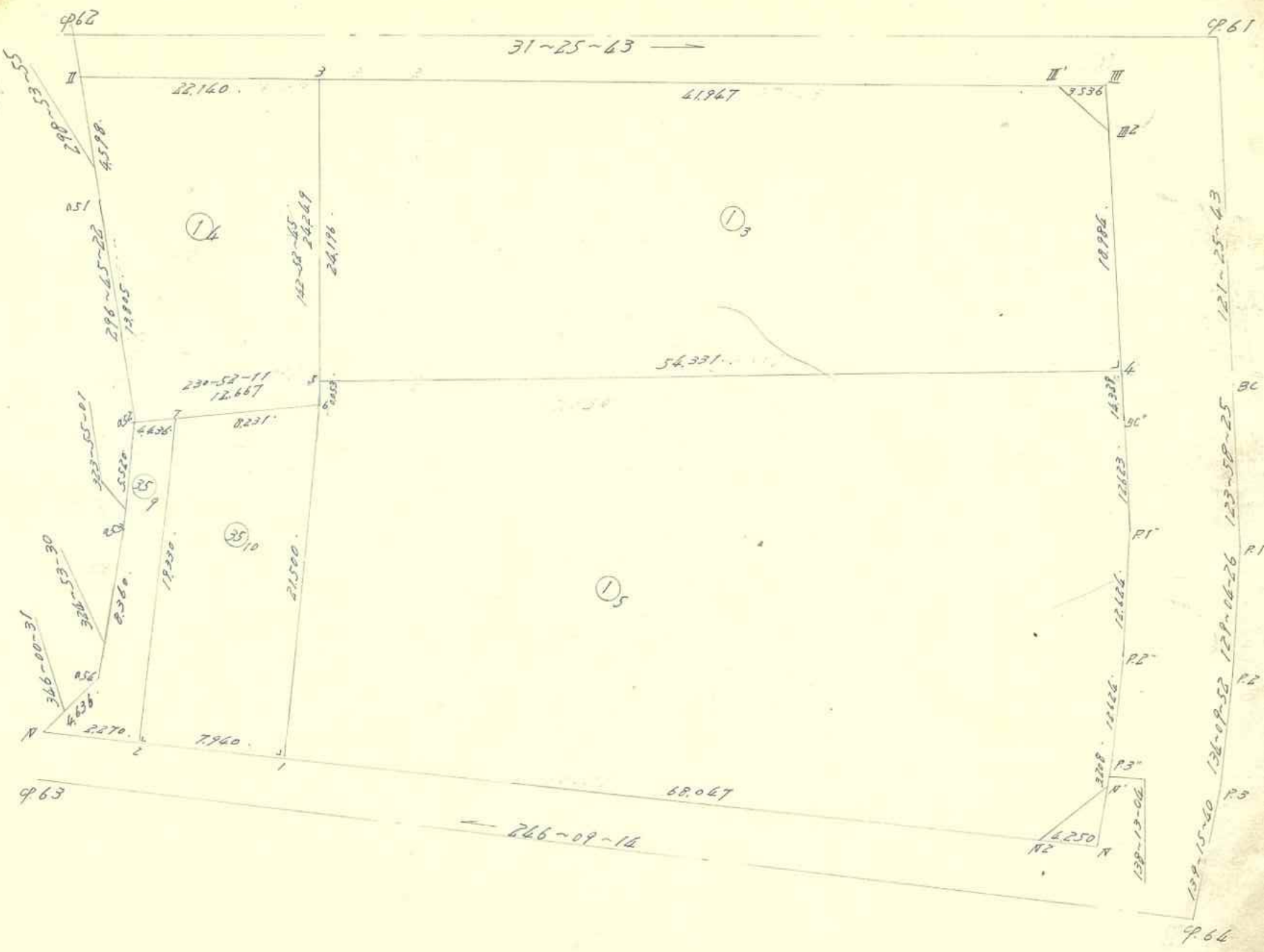
$$S_2 = \frac{|F|}{\textcircled{5}} = \underline{\quad\quad\quad}$$

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

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



35





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 5	φ64 <sup>N</sup>	6.080.733	-	+ 36.585	4.018.586	-	- 77.683	5912.880	,	4370.801	,
	φ64 <sup>N</sup>	6.080.733	-	+ 32.397	4.019.666	-	+ 63.295	3709.995	,	3876.819	,
	φ64 <sup>N</sup>	6.053.823	-	+ 7.846	3.957.427	-	+ 70.931	3775.161	,	450.578	532.678
	φ64 <sup>N</sup>	6.072.887	-	⊖ 19.706	3.948.735	-	+ 8.724	635.866	,	,	960.372
	φ64 <sup>N</sup>	6.072.929	-	⊖ 46.402	3.948.703	-	⊖ 28.298	,	2663.745	,	2259.917
	φ64 <sup>N</sup>	6.119.289	-	⊖ 38.890	3.977.033	-	⊖ 40.557	,	4838.004	,	2,995.813
	BC <sup>N</sup>	6.111.819	-	+ 14.525	3.989.260	-	⊖ 22.695	,	2,537.732	1,296.508	,
	P1 <sup>N</sup>	6.106.764	-	+ 15.011	3.999.728	-	⊖ 20.269	,	2,123.662	1,497.017	,
	P2 <sup>N</sup>	6.096.808	-	+ 16.752	4.009.529	-	⊖ 18.856	,	1,825.412	1,834.830	,

控除シタル値

X = 於テ

y = 於テ

Σ =

2S =

S =

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ○	P3 <sup>N</sup>	6.088.012	-	+ 11,188	4.018.586	-	⊖ 11,193	,	985,118	1,326,718	,
	φ64 <sup>N</sup>	6.085,620	-	+ 7,279	4.020,722	-	⊖ 1,082	,	92,641	878,735	,
		,	-	,	,	-	,	,	,	,	,
		,	-	,	,	-	,	,	,	,	,
		,	-	,	,	-	,	,	,	,	,
		,	-	,	,	-	,	,	,	,	,
		,	-	,	,	-	,	,	,	,	,
		,	-	,	,	-	,	,	,	,	,
		,	-	,	,	-	,	,	,	,	,
		,	-	,	,	-	,	,	,	,	,

控除シタル値

X = 於テ 6.000

y = 於テ 3.900

Σ =

2S =

S =

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 ① <sub>3</sub>	4	6119.289	-	+56.259	3977.033	-	112.131	840.545		2646.030		
	5	6072.929	-	+27.067	3948.703	-	142.932	984.388		506.234		
	3	6092.222	-	⊖55.086	3934.101	-	⊖17.270		306.954		225.908	
	961 <sup>Ⅱ</sup>	6128.015	-	⊖36.966	3955.973	-	⊖26.733		2085.575		960.118	
	961 <sup>Ⅱ</sup>	6129.188	-	+8.726	3960.834	-	⊖21.060		1667.699	269.057		
	961 <sup>Ⅱ</sup>	6128.122	-	+3.765	3957.111	-	-21.128		1270.284	275.372		
			-			-						
			-			-						

控除シタル値

X=於テ 6.050

y=於テ 3.930

$$\bar{X} = 1824.933 \quad 4060.288 \quad 3421.321 \quad 1186.026$$

$$2S = 2235.295 \quad 2235.295$$

$$S = 1117.647$$

338.09 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 <sub>4</sub>	3	6092.222	-	+22.443	3934.101	-	⊖26.178		2414.188	15.107	
	6	6072.887	-	+27.329	3948.735	-	⊖4.808		350.461	1331.879	
	0.52	6064.893	-	+1.779	3938.909	-	+22.153	1437.575		69.219	
	0.51	6071.108	-	⊖8.437	3926.582	-	+16.352	1162.758			224.272
	962 <sup>Ⅱ</sup>	6073.330	-	⊖21.114	3922.557	-	⊖7.519		551.369		476.268
	2	6071.619	-	-6.725	3924.834	-	-11.128		207.418		50.127

控除シタル値

X=於テ 6.000

y=於テ 3.900

$$\bar{X} = 2600.333 \quad 3375.998 \quad 1476.205 \quad 700.540$$

$$2S = 715.665 \quad 715.665$$

$$S = 357.832$$

108.24<sup>19</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
35	筆番号										
	1	6,053,223	-	+ 22,876	3,957,427	-	⊖ 1,430		4,409	3,98,625	
	2	6,050,013	-	⊖ 14,470	3,950,165	-	+ 15,077	196			147,088
	7	6,067,693	-	⊖ 22,876	3,942,350	-	+ 1,430	25,301			53,754
	6	6,072,887	-	+ 14,470	3,948,735	-	⊖ 15,077		345,067	126,395	

控除シタル値

X = 於テ 6,050

y = 於テ 3,940

$$\bar{Z} = \frac{25,497}{25} = \frac{324,179}{25} = \frac{324,178}{25} = \frac{525,020}{25} = \frac{200,848}{25}$$

$$2S = 324,179$$

$$2S = 324,178$$

$$S = 162,089$$

$$49,037$$

年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
35	筆番号										
	2	6,050,013	-	+ 18,598	3,950,165	-	⊖ 5,739		57,465	375,089	
	963 <sup>7</sup>	6,049,095	-	⊖ 3,580	3,948,089	-	+ 3,197	29,077			64,759
	954	6,053,593	-	⊖ 11,227	3,946,968	-	+ 5,929	80,593			192,266
	953	6,060,432	-	⊖ 11,300	3,942,160	-	+ 8,059	164,661			137,408
	952	6,064,893	-	⊖ 7,261	3,938,909	-	⊖ 1,190		4,730		64,688
	7	6,067,693	-	+ 14,880	3,942,350	-	⊖ 11,256		311,712	183,768	

控除シタル値

X = 於テ 6,040

y = 於テ 3,930

$$\bar{Z} = \frac{274,331}{25} = \frac{373,907}{25} = \frac{558,797}{25} = \frac{459,221}{25}$$

$$2S = 99,576$$

$$2S = 99,576$$

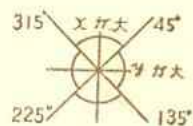
$$S = 49,788$$

$$15.06$$

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_

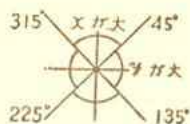


象	I	+	/	+	/
限	II	/	-	+	/
	III	/	-	-	/
	IV	+	/	-	-

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	
	φ64 <sup>N</sup>	"		"	.			.	.	.	.	6082.451	4023.553	φ64 <sup>N</sup>
φ64 <sup>N</sup>	φ64 <sup>N2</sup>			246 09 14	4.250			.	.	.	.	6080.733	4019.666	φ64 <sup>N2</sup>
φ64 <sup>N2</sup>	1	78.257		216 "	68.047			.	.	.	.	6053.223	3957.427	1
1	2			226 "	7.940			.	.	.	.	6050.013	3950.165	2
2	φ63 <sup>N</sup>			226 "	2.270			.	.	.	.	6049.095	3948.089	φ63 <sup>N</sup>
φ63 <sup>N</sup>	054			346 00 31	4.636			.	.	.	.	6053.593	3946.968	054
054	053			324 53 30	8.360			.	.	.	.	6060.432	3942.160	053
053	052			323 55 01	5.520			.	.	.	.	6064.893	3938.909	052
052	051			296 45 22	13.805			.	.	.	.	6071.108	3926.582	051
051	φ62 <sup>II</sup>			298 53 55	4.598			.	.	.	.	6073.330	3922.557	φ62 <sup>II</sup>
φ62 <sup>II</sup>	3	64.087		31 25 43	22.740			.	.	.	.	6092.222	3934.101	3
3	φ61 <sup>III</sup>			"	41.947			.	.	.	.	6122.015	3955.973	φ61 <sup>III</sup>
φ61 <sup>III</sup>	φ61 <sup>III</sup>			"	3.536			.	.	.	.	6131.032	3957.817	φ61 <sup>III</sup>
φ61 <sup>III</sup>	φ61 <sup>III2</sup>			121 25 43	3.536			.	.	.	.	6129.188	3960.834	φ61 <sup>III2</sup>
φ61 <sup>III2</sup>	4	33.312		"	18.984			.	.	.	.	6119.289	3977.033	4
4	BC"			"	14.328			.	.	.	.	6111.819	3982.260	BC"
BC"	P1"			123 58 25	12.623			.	.	.	.	6104.764	3999.728	P1"
P1"	P2"			129 16 26	12.624			.	.	.	.	6096.808	4008.529	P2"
P2"	P3"			134 09 52	12.624			.	.	.	.	6088.012	4012.584	P3"
P3"	φ64 <sup>N'</sup>			138 13 40	3.208			.	.	.	.	6085.620	4020.722	φ64 <sup>N'</sup>
φ64 <sup>N'</sup>	φ64 <sup>N</sup>			"	4.250			.	.	.	.	6082.451	4023.553	φ64 <sup>N</sup>

協和建設測量

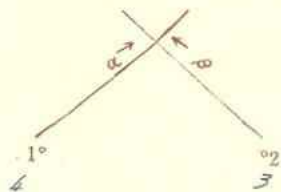
測量No. \_\_\_\_\_



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	
	961 <sup>II</sup>													
961 <sup>II</sup>	4			121 25 43	22.520	521436	853291		11.743	19.216		6131.032	3957.817	961 <sup>III</sup>
	963 <sup>IV</sup>													
963 <sup>IV</sup>	1			66 09 14	10.210	404299	914627	4.128		9.338		6049.095	3948.089	963 <sup>IV</sup>
1	6			336 09 14	21.500	"	"	19.664			8.692	6072.887	3948.735	6
	2			246 09 14	7.940	"	"		3.210		7.262	6050.013	3950.165	2
	962 <sup>II</sup>													
962 <sup>II</sup>	3			31 25 43	22.140	521423	853298	18.892		11.544		6073.330	3922.557	962 <sup>II</sup>

算出点 5



$$\begin{aligned} 3 \quad X_2 &= -610921.222 \\ 4 \quad X_1 &= -611719.289 \\ \Delta X &= -91271.067 \end{aligned}$$

$$\begin{aligned} \alpha &= 121^\circ - 25' - 43'' \\ \beta &= 142^\circ - 52' - 45'' \\ \beta - \alpha &= 21^\circ - 27' - 02'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times ③ &= +134.23247 \\ \Delta X \times ④ &= -91761.33408 \\ E &= 150.58735 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 154.33106$$

$$\begin{aligned} S_1 \times ① &= \ominus \frac{1461.360}{X_1 = -611719.289 (+)} \\ X &= -610721.929 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= \ominus \frac{1121.3310}{Y_1 = -319171.0133 (+)} \\ Y &= -319481.1713 \end{aligned}$$

$$\begin{aligned} Y_2 &= -319341.1011 \\ Y_1 &= -319171.0133 \\ \Delta Y &= -91421.932 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= \ominus \cdot 185321911 \text{ ①} \\ \text{Sin} \alpha &= \ominus \cdot 152114316 \text{ ②} \\ \text{Cos} \beta &= \ominus \cdot 1791731651 \text{ ③} \\ \text{sin} \beta &= + \cdot 160314981 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= - \cdot 193107314 \text{ ⑤} \end{aligned}$$

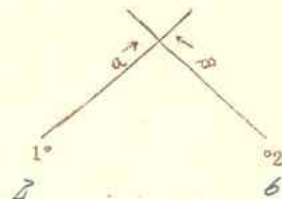
$$\begin{aligned} \Delta Y \times ① &= +1361.63349 \\ \Delta X \times ② &= +114.11371 \\ F &= 1221.51978 \end{aligned}$$

$$S_2 = \frac{F}{⑥} = 124.11957$$

$$\begin{aligned} S_2 \times ③ &= \ominus \frac{1119.893}{X_2 = -610921.222 (+)} \\ X &= -610721.929 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= + \frac{1114.1602}{Y_2 = -319341.1011 (+)} \\ Y &= -319481.1713 \end{aligned}$$

算出点 7



$$\begin{aligned} 6 \quad X_2 &= -610721.887 \\ 2 \quad X_1 &= -610501.0113 \\ \Delta X &= -1221.876 \end{aligned}$$

$$\begin{aligned} \alpha &= 133^\circ - 09' - 14'' \\ \beta &= 123^\circ - 52' - 17'' \\ \beta - \alpha &= 174^\circ - 42' - 57'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times ③ &= +1111.90245 \\ \Delta X \times ④ &= -9171.74366 \\ E &= 118.84611 \end{aligned}$$

$$S_1 = \frac{E}{⑤} = 119.82198$$

$$\begin{aligned} S_1 \times ① &= + \frac{1117.16180}{X_1 = -610501.0113 (+)} \\ X &= -610617.1693 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= \ominus \frac{1117.8115}{Y_1 = -319501.1165 (+)} \\ Y &= -319421.3350 \end{aligned}$$

$$\begin{aligned} Y_2 &= -319481.1713 \\ Y_1 &= -319501.1165 \\ \Delta Y &= -9111.0452 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= + \cdot 1911616315 \text{ ①} \\ \text{Sin} \alpha &= \ominus \cdot 40462892 \text{ ②} \\ \text{Cos} \beta &= \ominus \cdot 1611101816 \text{ ③} \\ \text{sin} \beta &= \ominus \cdot 1727517131 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= - \cdot 1916416310 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times ① &= 19111.0452 \\ \Delta X \times ② &= -9119.84755 \\ F &= 117.93968 \end{aligned}$$

$$S_2 = \frac{F}{⑥} = 118.82307$$

$$\begin{aligned} S_2 \times ③ &= \ominus \frac{1151.1964}{X_2 = -610721.887 (+)} \\ X &= -610617.1693 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= \ominus \frac{1161.1915}{Y_2 = -319481.1713 (+)} \\ Y &= -319421.3350 \end{aligned}$$

$$\begin{aligned} X_2 &= \underline{\hspace{2cm}} & Y_2 &= \underline{\hspace{2cm}} \\ X_1 &= \underline{\hspace{2cm}} & Y_1 &= \underline{\hspace{2cm}} \\ \Delta X &= \underline{\hspace{2cm}} & \Delta Y &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \underline{\hspace{2cm}} \\ \text{Log} \Delta X & \underline{\hspace{2cm}} \\ \text{Logtan} B & \underline{\hspace{2cm}} \\ B & \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \underline{\hspace{2cm}} & \text{Log} \Delta X & \underline{\hspace{2cm}} \\ \text{Logsin} B & \underline{\hspace{2cm}} & \text{Logcos} B & \underline{\hspace{2cm}} \\ \text{Log} D & \underline{\hspace{2cm}} & \text{Log} D & \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= \underline{\hspace{2cm}} \\ \Delta y_2 &= \underline{\hspace{2cm}} \\ D_2 &= \underline{\hspace{2cm}} \\ D &= \underline{\hspace{2cm}} \end{aligned}$$

距離 = 174 K 269  
方位角 a = 148° - 52' - 45"

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

$$\begin{aligned} X_2 &= \underline{\hspace{2cm}} & Y_2 &= \underline{\hspace{2cm}} \\ X_1 &= \underline{\hspace{2cm}} & Y_1 &= \underline{\hspace{2cm}} \\ \Delta X &= \underline{\hspace{2cm}} & \Delta y &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \underline{\hspace{2cm}} \\ \text{Log} \Delta X & \underline{\hspace{2cm}} \\ \text{Logtan} B & \underline{\hspace{2cm}} \\ B & \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \underline{\hspace{2cm}} & \text{Log} \Delta X & \underline{\hspace{2cm}} \\ \text{Logsin} B & \underline{\hspace{2cm}} & \text{Logcos} B & \underline{\hspace{2cm}} \\ \text{Log} D & \underline{\hspace{2cm}} & \text{Log} D & \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= \underline{\hspace{2cm}} \\ \Delta y_2 &= \underline{\hspace{2cm}} \\ D_2 &= \underline{\hspace{2cm}} \\ D &= \underline{\hspace{2cm}} \end{aligned}$$

距離 =    |K|     
方位角 a =    |°-| |'-| |"-

$$\begin{aligned} X_2 &= \underline{\hspace{2cm}} & Y_2 &= \underline{\hspace{2cm}} \\ X_1 &= \underline{\hspace{2cm}} & Y_1 &= \underline{\hspace{2cm}} \\ \Delta X &= \underline{\hspace{2cm}} & \Delta Y &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \underline{\hspace{2cm}} \\ \text{Log} \Delta X & \underline{\hspace{2cm}} \\ \text{Logtan} B & \underline{\hspace{2cm}} \\ B & \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \underline{\hspace{2cm}} & \text{Log} \Delta X & \underline{\hspace{2cm}} \\ \text{Logsin} B & \underline{\hspace{2cm}} & \text{Logcos} B & \underline{\hspace{2cm}} \\ \text{Log} D & \underline{\hspace{2cm}} & \text{Log} D & \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= \underline{\hspace{2cm}} \\ \Delta y_2 &= \underline{\hspace{2cm}} \\ D_2 &= \underline{\hspace{2cm}} \\ D &= \underline{\hspace{2cm}} \end{aligned}$$

距離 = 174 K 1617  
方位角 a = 135° - 52' - 41"

$$\begin{aligned} X_2 &= \underline{\hspace{2cm}} & Y_2 &= \underline{\hspace{2cm}} \\ X_1 &= \underline{\hspace{2cm}} & Y_1 &= \underline{\hspace{2cm}} \\ \Delta X &= \underline{\hspace{2cm}} & \Delta y &= \underline{\hspace{2cm}} \end{aligned}$$

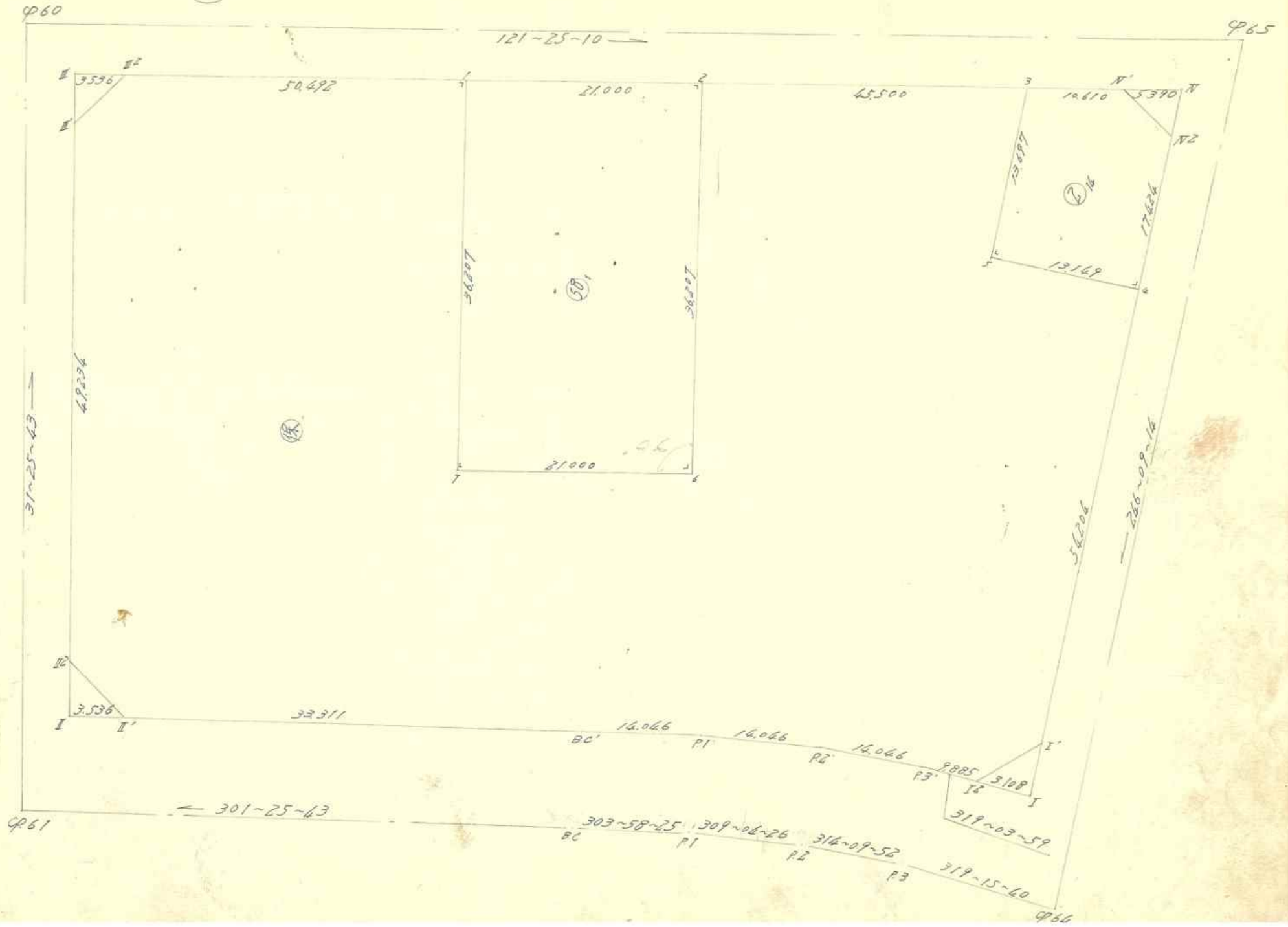
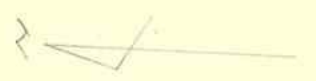
$$\begin{aligned} \text{Log} \Delta y & \underline{\hspace{2cm}} \\ \text{Log} \Delta X & \underline{\hspace{2cm}} \\ \text{Logtan} B & \underline{\hspace{2cm}} \\ B & \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \text{Log} \Delta y & \underline{\hspace{2cm}} & \text{Log} \Delta X & \underline{\hspace{2cm}} \\ \text{Logsin} B & \underline{\hspace{2cm}} & \text{Logcos} B & \underline{\hspace{2cm}} \\ \text{Log} D & \underline{\hspace{2cm}} & \text{Log} D & \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= \underline{\hspace{2cm}} \\ \Delta y_2 &= \underline{\hspace{2cm}} \\ D_2 &= \underline{\hspace{2cm}} \\ D &= \underline{\hspace{2cm}} \end{aligned}$$

距離 =    |K|     
方位角 a =    |°-| |'-| |"-

36



# 各筆面積計算集計表

ツク号	各筆確定				備考	各筆号	各筆確定				備考
	各筆号	面 m <sup>2</sup>	積 坪	積 坪			各筆号	面 m <sup>2</sup>	積 坪	積 坪	
6	⑭	228	101	69 00	✓						
	⑮	760	347	230 00	✓						
	⑯	5778	231	1747 91	✓						
						計					
							m <sup>2</sup>			坪	
						ブロック計算=	6766.691			ブロック計算=	2046.92
						各筆集計=	6766.679(-)			各筆集計=	2046.91(-)
						ε =	.013			ε =	.01

協和建設測量

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 ② <sub>14</sub>	9 <sup>N</sup> <sub>65</sub>	6.119.379	-	+12.033	4.107.191	-	716.266	315.219		1288.746		
	4	6.112.335	-	+4.983	4.091.165	-	+21.252	262.143			456.275	
	5	6.124.362	-	+17.564	4.085.849	-	+7.212		175.699		1507.852	
	3	6.129.899	-	+0.006	4.098.377	-	+21.582		645.280			590
	9 <sup>N</sup> <sub>65</sub>	6.124.368	-	+10.520	4.107.431	-	+8.724		212.586	1130.174		

控除シタル値

X=於テ 6.100

y=於テ 4.000

$\bar{x} = 577 \ 362 \ 1033 \ 565 \ 2418 \ 920 \ 1962 \ 717$

$2S = 456.203$

$456.203$

S = 228.101

年 月 日

69.00<sup>14</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 ⑤ <sub>1</sub>	6	6.122.720	-	+19.951	4.040.673	-	736.796	836.005		811.467	
	7	6.133.667	-	+41.845	4.022.752	-	+9.954		32.118		952.057
	1	6.164.565	-	+19.951	4.061.627	-	+36.796		2.375.734		830.500
	2	6.153.618	-	+41.845	4.059.548	-	+9.954	51.152		2491.786	

控除シタル値

X=於テ 6.100

y=於テ 4.000

$\bar{x} = 887 \ 157 \ 2407 \ 852 \ 3303 \ 253 \ 1782 \ 557$

$2S = 1520.695$

$1520.695$

S = 760.347

年 月 日

230.00<sup>14</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 係	4	6.112.335	-	+ 33.939	4.091.165	-	+ 46.262	4.972.172			6.487.969	
	φ64 <sup>I</sup>	6.090.423	-	+ 20.821	4.061.587	-	+ 44.457	4.924.165			2.947.983	
	φ64 <sup>II</sup>	6.091.514	-	0 8.259	4.036.708	-	+ 11.356	1.039.233				1.170.086
	P3'	6.098.982	-	0 17.254	4.030.231	-	+ 16.552	1.638.350				2.247.136
	P2'	6.108.769	-	0 18.440	4.020.156	-	+ 20.980	2.281.974				2.239.708
	P1'	6.117.622	-	0 16.703	4.009.251	-	+ 22.653	2.652.729				1.824.819
	B.C'	6.125.472	-	0 25.218	3.997.603	-	+ 40.073	5.028.039				2.461.352
	φ61 <sup>I</sup>	6.142.840	-	0 22.229	3.968.178	-	+ 29.598	4.227.778				1.537.758
	φ61 <sup>II</sup>	6.147.701	-	0 46.873	3.968.005	-	+ 26.499			3.618.527		3.187.598

控除シタル値

X=於テ

y=於テ

Σ =

ΣS =

S =

年 月 日 印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 ○	φ60 <sup>I</sup>	6.189.713	-	0 43.184	3.993.677	-	0 30.534			5.792.697		4.045.535
	φ60 <sup>II</sup>	6.190.887	-	+ 25.142	3.998.539	-	0 47.950			9.153.032		2.478.059
	1	6.164.565	-	+ 57.220	4.061.627	-	0 24.213			3.986.612		8.103.897
	7	6.133.667	-	+ 41.245	4.022.752	-	+ 9.554	127.518			5.136.557	
	6	6.122.720	-	0 19.951	4.060.673	-	0 36.796			4.515.605		2.806.567
	2	6.153.618	-	0 7.179	4.059.548	-	0 57.704			8.864.373		1.145.395
	3	6.129.899	-	+ 29.256	4.098.377	-	0 26.301			3.616.474		5.803.718
	5	6.126.362	-	+ 17.564	4.085.849	-	+ 7.212	896.899			3.264.252	

控除シタル値

X=於テ 6.000

y=於テ 3.900

Σ =

ΣS =

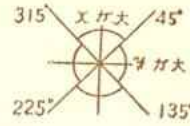
S =

年 月 日 印

1.747.914

多角点計算用紙

測量No.



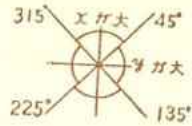
象 限	I	+	+	+
	II	-	-	+
	III	-	-	-
	IV	+	+	-

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	
	φ64 <sup>I</sup>	° 1 "		° 1 "	.			.	.	.	.	6.089.166	4.038.744	φ64 <sup>I</sup>
φ64 <sup>I</sup>	φ64 <sup>I2</sup>			319 03 59	3.108			.	.	.	.	6.091.514	4.036.708	φ64 <sup>I2</sup>
φ64 <sup>I2</sup>	P3			"	9.885			.	.	.	.	6.098.982	4.030.231	P3
P3	P2'			314 09 58	14.046			.	.	.	.	6.108.769	4.020.156	P2'
P2'	P1'			309 06 26	14.046			.	.	.	.	6.117.622	4.009.251	P1'
P1'	BC			303 58 25	14.046			.	.	.	.	6.125.472	3.997.603	BC
BC	φ61 <sup>I'</sup>			301 25 43	33.311			.	.	.	.	6.142.840	3.969.178	φ61 <sup>I'</sup>
φ61 <sup>I'</sup>	φ61 <sup>II</sup>			"	3.536			.	.	.	.	6.146.684	3.966.161	φ61 <sup>II</sup>
φ61 <sup>II</sup>	φ61 <sup>II2</sup>			31 25 43	3.536			.	.	.	.	6.147.701	3.968.005	φ61 <sup>II2</sup>
φ61 <sup>II2</sup>	φ60 <sup>III'</sup>			"	49.234			.	.	.	.	6.189.713	3.993.677	φ60 <sup>III'</sup>
φ60 <sup>III'</sup>	φ60 <sup>III2</sup>			"	3.536			.	.	.	.	6.192.730	3.995.521	φ60 <sup>III2</sup>
φ60 <sup>III2</sup>	φ60 <sup>III2</sup>			121 25 10	3.536			.	.	.	.	6.190.887	3.998.539	φ60 <sup>III2</sup>
φ60 <sup>III2</sup>	1			"	50.492			.	.	.	.	6.166.565	4.041.627	1
1	2	127.608		"	21.000			.	.	.	.	6.153.618	4.059.568	2
2	3			"	45.500			.	.	.	.	6.129.899	4.098.377	3
3	φ65 <sup>IV'</sup>			"	10.610			.	.	.	.	6.126.368	4.107.431	φ65 <sup>IV'</sup>
φ65 <sup>IV'</sup>	φ65 <sup>IV</sup>			"	5.390			.	.	.	.	6.121.558	4.112.031	φ65 <sup>IV</sup>
φ65 <sup>IV</sup>	φ65 <sup>IV2</sup>			246 09 14	5.390			.	.	.	.	6.119.379	4.107.101	φ65 <sup>IV2</sup>
φ65 <sup>IV2</sup>	4	71.628		"	17.424			.	.	.	.	6.112.335	4.091.165	4
4	φ64 <sup>I'</sup>			"	56.204			.	.	.	.	6.090.423	4.061.587	φ64 <sup>I'</sup>
φ64 <sup>I'</sup>	φ64 <sup>I</sup>			"	3.108			.	.	.	.	6.089.166	4.038.744	φ64 <sup>I</sup>

協和建設測量

多角点計算用紙

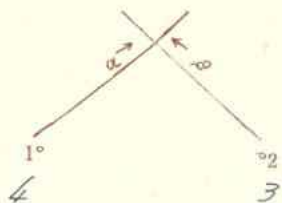
測量No. \_\_\_\_\_



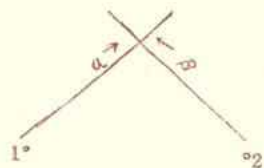
象 限	I	+	/	+	/
	II	/	-	+	/
	III	/	-	/	-
	IV	+	/	/	-

測点	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		
	φ65 <sup>N</sup>	' "		' "											
φ65 <sup>N</sup>	2			301 25 10	61.500	521299	853374	32.060	.	.	.	6121.558	4112.031	φ65 <sup>N</sup>	
2	1			"	21.000	"	"	10.947	.	.	Ⓡ 52.483	6153.618	4059.548	2	
1	7			211 25 10	36.207	"	"	Ⓡ 30.898	.	.	17.921	6162.565	4041.627	1	
7	6			121 25 10	21.000	"	"	10.947	Ⓡ 17.921	.	.	18.875	6133.667	4022.752	7
												6122.720	4060.673	6	
	φ65 <sup>N</sup>														
φ65 <sup>N</sup>	4			246 09 14	22.816	604281	914635	.	.	.	.	6121.558	4112.031	φ65 <sup>N</sup>	
"	3			301 25 10	16.000	521299	853374	8.341	Ⓡ 9.223	.	.	Ⓡ 20.866	6112.335	4091.165	4
												Ⓡ 13.654	6129.899	4098.377	3

算出點 5



算出點



$$\begin{aligned} 3 \quad X_2 &= -611291.18199 \\ 4 \quad X_1 &= -611291.13315 \\ \hline \Delta X &= +1171.05666 \end{aligned}$$

$$\begin{aligned} Y_2 &= -601918.13177 \\ Y_1 &= -601911.11615 \\ \hline \Delta Y &= +71171.02162 \end{aligned}$$

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

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

$$\alpha = 336^\circ - 0' - 16''$$

$$\cos \alpha = + \cdot | | | | | \cdot | | | | | \text{ ①}$$

$$\alpha = | | | | | \cdot | | | | |$$

$$\cos \alpha = - \cdot | | | | | \cdot | | | | | \text{ ①}$$

$$\beta = 246^\circ - 0' - 16''$$

$$\sin \alpha = + \cdot | | | | | \cdot | | | | | \text{ ②}$$

$$\beta = | | | | | \cdot | | | | |$$

$$\sin \alpha = - \cdot | | | | | \cdot | | | | | \text{ ②}$$

$$\beta - \alpha = 190^\circ - 0' - 0''$$

$$\cos \beta = + \cdot | | | | | \cdot | | | | | \text{ ③}$$

$$\beta - \alpha = | | | | | \cdot | | | | |$$

$$\cos \beta = - \cdot | | | | | \cdot | | | | | \text{ ③}$$

$$\sin \beta = + \cdot | | | | | \cdot | | | | | \text{ ④}$$

$$\sin(\beta - \alpha) = - \cdot | | | | | \cdot | | | | | \text{ ⑤}$$

$$\sin \beta = - \cdot | | | | | \cdot | | | | | \text{ ④}$$

$$\sin(\beta - \alpha) = - \cdot | | | | | \cdot | | | | | \text{ ⑤}$$

$$\Delta Y \times \text{④} = + | | | | | \cdot | | | | |$$

$$\Delta Y \times \text{①} = + | | | | | \cdot | | | | |$$

$$\Delta Y \times \text{③} = - | | | | | \cdot | | | | |$$

$$\Delta Y \times \text{①} = - | | | | | \cdot | | | | |$$

$$\Delta X \times \text{④} = + | | | | | \cdot | | | | |$$

$$\Delta X \times \text{②} = + | | | | | \cdot | | | | |$$

$$\Delta X \times \text{④} = - | | | | | \cdot | | | | |$$

$$\Delta X \times \text{②} = - | | | | | \cdot | | | | |$$

$$E = | | | | | \cdot | | | | |$$

$$F = | | | | | \cdot | | | | |$$

$$E = | | | | | \cdot | | | | |$$

$$F = | | | | | \cdot | | | | |$$

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

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

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

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

$$S_1 \times \text{①} = + | | | | | \cdot | | | | |$$

$$S_2 \times \text{③} = + | | | | | \cdot | | | | |$$

$$S_1 \times \text{①} = - | | | | | \cdot | | | | |$$

$$S_2 \times \text{③} = - | | | | | \cdot | | | | |$$

$$X_1 = -611291.13315 \text{ (+)}$$

$$X_2 = -611291.18199 \text{ (+)}$$

$$X_1 = - | | | | | \cdot | | | | | \text{ (+)}$$

$$X_2 = - | | | | | \cdot | | | | | \text{ (+)}$$

$$X = -611291.13315$$

$$X = -611291.13315$$

$$X = - | | | | | \cdot | | | | |$$

$$X = - | | | | | \cdot | | | | |$$

$$S_1 \times \text{②} = + | | | | | \cdot | | | | |$$

$$S_2 \times \text{④} = + | | | | | \cdot | | | | |$$

$$S_1 \times \text{②} = - | | | | | \cdot | | | | |$$

$$S_2 \times \text{④} = - | | | | | \cdot | | | | |$$

$$Y_1 = -601911.11615 \text{ (+)}$$

$$Y_2 = -601918.13177 \text{ (+)}$$

$$Y_1 = - | | | | | \cdot | | | | | \text{ (+)}$$

$$Y_2 = - | | | | | \cdot | | | | | \text{ (+)}$$

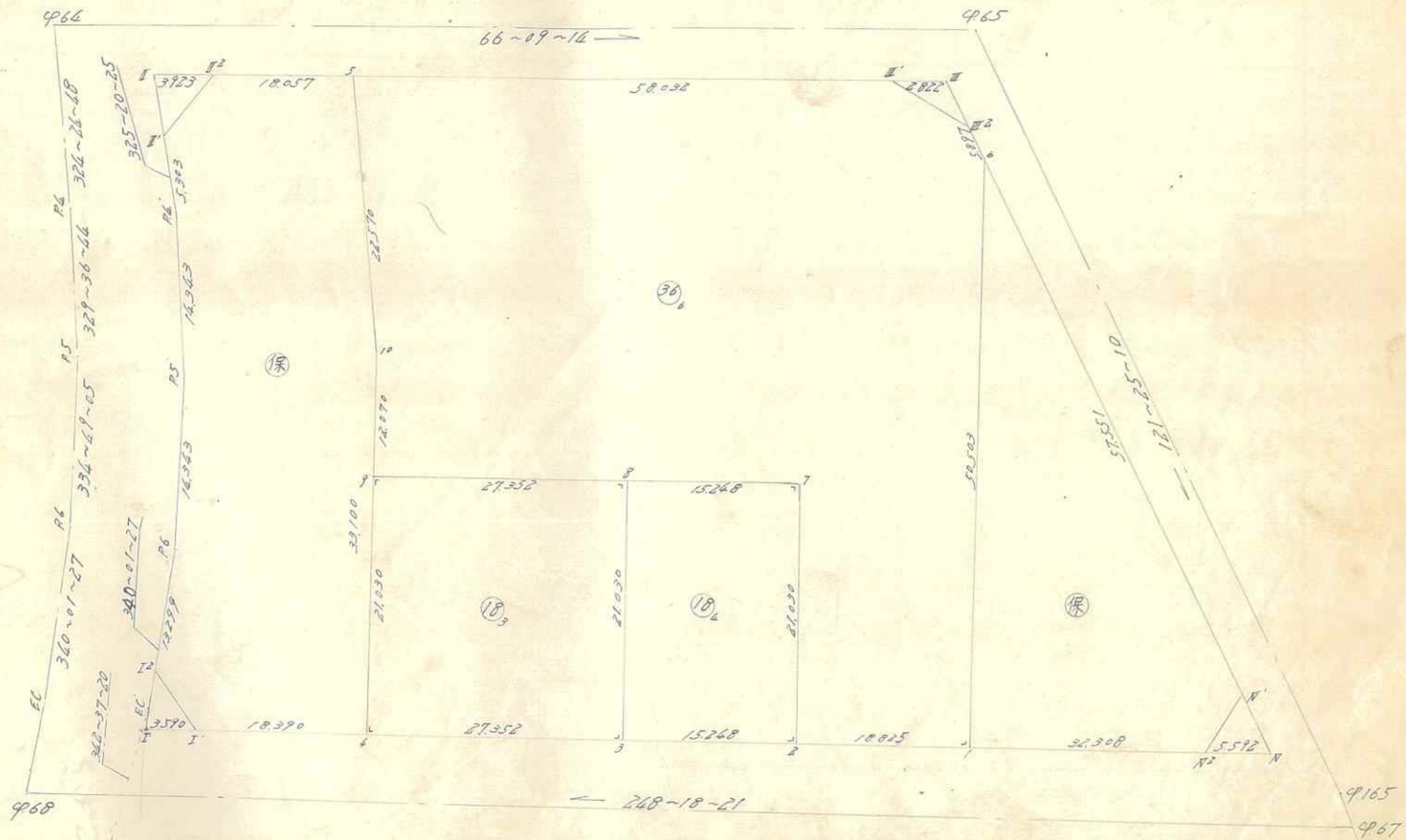
$$Y = -601895.18419$$

$$Y = -601895.18419$$

$$Y = - | | | | | \cdot | | | | |$$

$$Y = - | | | | | \cdot | | | | |$$

37





面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
保	4	6043.575	-	+26.338	4087.296	-	+9.313	405.814			2299.202	
	φ68 <sup>I</sup>	6036.777	-	+4.751	4070.209	-	+21.649	796.185			333.563	
	φ68 <sup>II</sup>	6038.824	-	⊖14.546	4065.667	-	+9.106	353.531				956.901
	P6'	6051.323	-	⊖25.479	4061.103	-	+10.647	546.436				1556.843
	P5'	6064.303	-	⊖25.353	4055.000	-	+13.358	858.959				1396.415
	P4'	6076.676	-	⊖16.735	4047.765	-	+10.271	787.539				799.013
	φ64 <sup>I</sup>	6081.038	-	⊖9.174	4044.729	-	+1.659	134.462				610.344
	φ64 <sup>II</sup>	6085.850	-	⊖12.113	4046.086	-	⊖17.873		1534.397			558.240
	5	6093.151	-	+11.519	4062.602	-	⊖28.975		2699.050	721.112		

控除シタル値

X=於テ

y=於テ

Σ =

2Σ =

S =

年 月 日

印

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
J	10	6074.331	-	+30.036	4075.061	-	⊖16.920		1257.681	2256.532	
	9	6063.115	-	+30.756	4079.522	-	⊖12.235		772.212	2665.779	

控除シタル値

X=於テ 6.000

y=於テ 4.000

Σ = 3882 906 6263 340 8054 188 5673 756

2Σ = 2380.634 2980.432

S = 1.190.217

360.0429

年 月 日

印

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 ⑱ <sub>3</sub>	3	6.053.686	-	+ 29.65/4.112.711	-	+ 17.621	241, 235			1266, 429	
	4	6.043.575	-	⊖ 9.429/4.087.296	-	+ 33.189	118, 651				163, 084
	9	6.063.115	-	⊖ 29.65/4.079.522	-	⊖ 17.621		407, 772			282, 337
	8	6.073.226	-	+ 9.429/4.104.937	-	⊖ 33.189		1102, 738	329, 421		
			-		-						
			-		-						
			-		-						
			-		-						
			-		-						

控除シタル値

X=於テ 6.040.—

y=於テ 4.070.—

$\bar{x} = 960$  086/510 510/595 845 445 421

$2\bar{s} = 1150, 424$

1150, 424

S = 575, 212

印  
年 月 日

面積計算用紙

174.00坪

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 ⑱ <sub>4</sub>	2	6.059.322	-	+ 25.176/4.126.879	-	+ 6.394	59, 605			676, 706	
	3	6.053.686	-	⊖ 13.904/4.112.711	-	+ 21.942	80, 878				176, 734
	8	6.073.226	-	⊖ 25.176/4.104.937	-	⊖ 6.394		108, 507			124, 294
	7	6.078.862	-	+ 13.904/4.119.105	-	⊖ 21.942		633, 290	265, 636		
			-		-						
			-		-						
			-		-						
			-		-						
			-		-						

控除シタル値

X=於テ 6.050.—

y=於テ 4.100.—

$\bar{x} = 140$  483 781 797 942 342 301 428

$2\bar{s} = 601, 314$

601, 314

S = 320, 657

印  
年 月 日

9700坪

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	△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)	+	-	+	-	
筆番号 (36)	1	6066.281	-	+53.885	4144.370	-	01.178			78.079	7779.377	
	2	6059.322	-	+12.581	4126.879	-	+25.265	1498.770				1596.265
	7	6078.862	-	+3.793	4119.105	-	+47.357	3734.668				451.765
	9	6063.115	-	+4.531	4079.522	-	+44.044	2779.837			360.314	
	10	6074.331	-	+0.30	4075.061	-	+16.920	1257.681				2254.532
	5	6093.151	-	+42.281	4062.602	-	940.619		3783.700			2646.813
465	6116.611	-	+23.130	4115.680	-	948.067		6771.251			2675.678	
465	6116.281	-	+3.404	4120.669	-	910.021		1165.252	410.757			
6	6113.207	-	+50.000	4125.701	-	923.701		2683.119	6285.050			

控除シタル値

X = 於テ 6000

y = 於テ 4000

$\Sigma = 9270 \quad 9564481 \quad 20114835 \quad 4989625 \quad 053$

$2S = 5210.445 \quad 5210.445$

S = 2,605.223

788.08<sup>日</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>	△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)	+	-	+	-
筆番号 (保)	467	6078.224	-	+16.925	4174.390	-	130.444	2381.451		1289.051	
	1	6066.281	-	+34.983	4144.370	-	+28.689	3227.156			1552.196
	6	6113.207	-	+16.925	4125.701	-	930.424		3446.474		434.989
	467	6083.206	-	+34.983	4174.814	-	948.689		4051.217	2617.218	
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				
		-	-	-	-	-	-				

控除シタル値

X = 於テ 6000

y = 於テ 4100

$\Sigma = 5608 \quad 6077497 \quad 6913876 \quad 2691987 \quad 185$

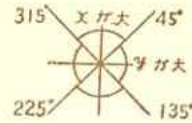
$2S = 1889.084 \quad 1889.084$

S = 944.542

285.72<sup>日</sup>

多角点計算用紙

測量No. \_\_\_\_\_

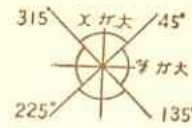


象	I	+	/	+	/
限	II	-	\	+	/
	III	-	/	-	\
	IV	+	\	-	/

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	
	φ67 <sup>N</sup>											6080.291	6179.586	φ67 <sup>N</sup>
φ67 <sup>N</sup>	φ67 <sup>N2</sup>			248 18 21	5.592							6078.224	6176.390	φ67 <sup>N2</sup>
φ67 <sup>N2</sup>	1				32.308							6066.291	6166.370	1
1	2				18.825							6059.322	6166.879	2
2	3	112.123			15.268							6053.686	6162.711	3
3	4				27.352							6043.575	6087.296	4
4	φ68 <sup>I'</sup>				18.390							6036.777	6070.209	φ68 <sup>I'</sup>
φ68 <sup>I'</sup>	φ68 <sup>I</sup>				3.590							6035.450	6066.873	φ68 <sup>I</sup>
φ68 <sup>I</sup>	φ68 <sup>I2</sup>			340 01 27	3.590							6038.824	6065.647	φ68 <sup>I2</sup>
φ68 <sup>I2</sup>	P6'				13.299							6051.323	6061.103	P6'
P6'	P5'			334 49 05	14.343							6066.303	6055.000	P5'
P5'	P4'			329 36 44	14.343							6076.676	6067.745	P4'
P4'	φ64 <sup>II'</sup>			325 20 25	5.303							6081.038	6064.729	φ64 <sup>II'</sup>
φ64 <sup>II'</sup>	φ64 <sup>II</sup>				3.923							6084.265	6062.698	φ64 <sup>II</sup>
φ64 <sup>II</sup>	φ64 <sup>II2</sup>			66 09 14	3.923							6085.850	6066.086	φ64 <sup>II2</sup>
φ64 <sup>II2</sup>	5	76.089			18.057							6093.151	6062.602	5
5	φ65 <sup>III'</sup>				58.032							6116.611	6115.680	φ65 <sup>III'</sup>
φ65 <sup>III'</sup>	φ65 <sup>III</sup>				2.822							6117.752	6118.261	φ65 <sup>III</sup>
φ65 <sup>III</sup>	φ65 <sup>III2</sup>			121 25 10	2.822							6116.281	6120.669	φ65 <sup>III2</sup>
φ65 <sup>III2</sup>	6	63.468			5.897							6113.207	6125.701	6
6	φ67 <sup>IV'</sup>				57.551							6083.206	6176.814	φ67 <sup>IV'</sup>
φ67 <sup>IV'</sup>	φ67 <sup>IV</sup>				5.592							6080.291	6179.586	φ67 <sup>IV</sup>

多角点計算用紙

測量No. \_\_\_\_\_

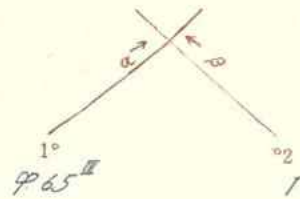


象 限	I	+	+	+
	II	-	-	+
	III	-	-	-
	IV	+	+	-

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y	
	φ67 <sup>N</sup>													φ67 <sup>N</sup>
φ67 <sup>N</sup>	1			268 18 21	37.900	369652	929170		14.010		35.216	6080.291	4179.586	φ67 <sup>N</sup>
	φ66 <sup>I</sup>													
φ66 <sup>I</sup>	5			66 09 14	21.980	404282	914635	8.886		20.106		6084.265	4062.698	φ66 <sup>I</sup>
	φ68 <sup>I</sup>													
φ68 <sup>I</sup>	4			68 18 21	21.980	369652	929170	8.125		20.423		6035.450	4066.873	φ68 <sup>I</sup>
4	10			338 18 21	33.100	"	"	30.756			12.235	6074.331	4075.061	10
"	9			"	21.030	"	"	19.540			7.774	6063.115	4079.522	9
9	8			68 18 21	27.352	"	"	10.111		25.415		6073.226	4104.937	8
8	3			158 18 21	21.030	"	"	19.540		7.774		6053.686	4112.711	3
3	2			68 18 21	15.248	"	"	5.636		14.168		6059.322	4126.879	2
2	7			338 18 21	21.030	"	"	19.540			7.774	6078.862	4119.105	7

5.115

算出点 6



$$\begin{aligned} X_2 &= -610161.1281 \\ 96.5^\circ X_1 &= -611171.1756 \\ \Delta X &= -1511.0475 \end{aligned}$$

$$\begin{aligned} \alpha &= 121^\circ - 25' - 10'' \\ \beta &= 338^\circ - 48' - 21'' \\ \beta - \alpha &= 216^\circ - 53' - 11'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 7122.625970 \\ \Delta X \times \textcircled{4} &= 1119.02636 \\ E &= 1115.23936 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 118.17189$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 0 \\ X_1 &= -611171.1756 \\ X &= -611171.1756 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 7 \\ Y_1 &= -611181.1261 \\ Y &= -611251.1701 \end{aligned}$$

$$\begin{aligned} Y_2 &= -611441.13170 \\ Y_1 &= -611181.1261 \\ \Delta Y &= -259.0056 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.15212991 \textcircled{1} \\ \text{Sin} \alpha &= 0.98533716 \textcircled{2} \\ \text{Cos} \beta &= 0.1961917101 \textcircled{3} \\ \text{Sin} \beta &= 0.1761965521 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.1610123101 \textcircled{5} \end{aligned}$$

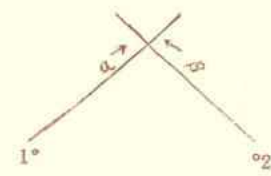
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 91121.1611060 \\ \Delta X \times \textcircled{2} &= 0143.1926101 \\ F &= 1301.131341 \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{5}} = 1510.150310$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 7 \\ X_2 &= -610161.1281 \\ X &= -611171.1756 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \\ Y_2 &= -611441.13170 \\ Y &= -611251.1701 \end{aligned}$$

算出点



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

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

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

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

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

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

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

$$\begin{aligned} \text{Cos} \alpha &= - \\ \text{Sin} \alpha &= - \\ \text{Cos} \beta &= - \\ \text{Sin} \beta &= - \\ \text{Sin}(\beta - \alpha) &= - \end{aligned}$$

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

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

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

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

$$\begin{array}{r} 5 X_2 = 161019171 \cdot 11511 \\ 10 X_1 = 161017161 \cdot 19311 \\ -) \\ \hline \Delta X = -1 \quad 111181 \cdot 1820 \end{array} \quad \begin{array}{r} Y_2 = 161016171 \cdot 161016 \\ Y_1 = 161017151 \cdot 101611 \\ -) \\ \hline \Delta Y = -1 \quad 1111717 \cdot 16159 \end{array}$$

$$\begin{array}{l} \text{Log} \Delta y \quad | \cdot | | | | | | | | | | \\ \text{Log} \Delta X \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{LogtanB} \quad | \cdot | 16162101018 \\ B \quad | 931^\circ - 301 - 181 \end{array}$$

$$\begin{array}{l} \text{Log} \Delta y \quad | \cdot | | | | | | | | | | \\ \text{LogsinB} \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{Log D} \quad | \cdot | 5520110 \\ \Delta x_2 = | | | | | \cdot | | | | | | | | | | \\ \Delta y_2 = | | | | | \cdot | | | | | | | | | | \\ +) \\ \hline D_2 = | 26 \cdot 5170 | \\ D = | | | | K | | | | \end{array} \quad \begin{array}{l} \text{Log} \Delta X \quad | \cdot | | | | | | | | | | \\ \text{LogcosB} \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{Log D} \quad | \cdot | 8938938 \\ \text{距離} = 22 K 570 \\ \text{方位角} a = 326^\circ - 891 - 40 \end{array}$$

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

$$\begin{array}{r} X_2 = | | | | | \cdot | | | | | | | | | | \\ X_1 = | | | | | \cdot | | | | | | | | | | \\ -) \\ \hline \Delta X = - - - | | | | | \cdot | | | | | | | | | | \end{array} \quad \begin{array}{r} Y_2 = | | | | | \cdot | | | | | | | | | | \\ Y_1 = | | | | | \cdot | | | | | | | | | | \\ -) \\ \hline \Delta y = - - - | | | | | \cdot | | | | | | | | | | \end{array}$$

$$\begin{array}{l} \text{Log} \Delta y \quad | \cdot | | | | | | | | | | \\ \text{Log} \Delta X \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{LogtanB} \quad | \cdot | | | | | | | | | | \\ B \quad | | | | ^\circ - | | - | | \end{array}$$

$$\begin{array}{l} \text{Log} \Delta y \quad | \cdot | | | | | | | | | | \\ \text{LogsinB} \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{Log D} \quad | \cdot | | | | | | | | | | \\ \Delta x_2 = | | | | | \cdot | | | | | | | | | | \\ \Delta y_2 = | | | | | \cdot | | | | | | | | | | \\ +) \\ \hline D_2 = | | | | | \cdot | | | | | | | | | | \\ D = | | | | K | | | | \end{array} \quad \begin{array}{l} \text{Log} \Delta X \quad | \cdot | | | | | | | | | | \\ \text{LogcosB} \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{Log D} \quad | \cdot | | | | | | | | | | \\ \text{距離} = | | | | K | | | | \\ \text{方位角} a = | | | | ^\circ - | | - | | \end{array}$$

$$\begin{array}{r} X_2 = | | | | | \cdot | | | | | | | | | | \\ X_1 = | | | | | \cdot | | | | | | | | | | \\ -) \\ \hline \Delta X = - - - | | | | | \cdot | | | | | | | | | | \end{array} \quad \begin{array}{r} Y_2 = | | | | | \cdot | | | | | | | | | | \\ Y_1 = | | | | | \cdot | | | | | | | | | | \\ -) \\ \hline \Delta Y = - - - | | | | | \cdot | | | | | | | | | | \end{array}$$

$$\begin{array}{l} \text{Log} \Delta y \quad | \cdot | | | | | | | | | | \\ \text{Log} \Delta X \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{LogtanB} \quad | \cdot | | | | | | | | | | \\ B \quad | | | | ^\circ - | | - | | \end{array}$$

$$\begin{array}{l} \text{Log} \Delta y \quad | \cdot | | | | | | | | | | \\ \text{LogsinB} \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{Log D} \quad | \cdot | | | | | | | | | | \\ \Delta x_2 = | | | | | \cdot | | | | | | | | | | \\ \Delta y_2 = | | | | | \cdot | | | | | | | | | | \\ +) \\ \hline D_2 = | | | | | \cdot | | | | | | | | | | \\ D = | | | | K | | | | \end{array} \quad \begin{array}{l} \text{Log} \Delta X \quad | \cdot | | | | | | | | | | \\ \text{LogcosB} \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{Log D} \quad | \cdot | | | | | | | | | | \\ \text{距離} = | | | | K | | | | \\ \text{方位角} a = | | | | ^\circ - | | - | | \end{array}$$

$$\begin{array}{r} X_2 = | | | | | \cdot | | | | | | | | | | \\ X_1 = | | | | | \cdot | | | | | | | | | | \\ -) \\ \hline \Delta X = - - - | | | | | \cdot | | | | | | | | | | \end{array} \quad \begin{array}{r} Y_2 = | | | | | \cdot | | | | | | | | | | \\ Y_1 = | | | | | \cdot | | | | | | | | | | \\ -) \\ \hline \Delta y = - - - | | | | | \cdot | | | | | | | | | | \end{array}$$

$$\begin{array}{l} \text{Log} \Delta y \quad | \cdot | | | | | | | | | | \\ \text{Log} \Delta X \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{LogtanB} \quad | \cdot | | | | | | | | | | \\ B \quad | | | | ^\circ - | | - | | \end{array}$$

$$\begin{array}{l} \text{Log} \Delta y \quad | \cdot | | | | | | | | | | \\ \text{LogsinB} \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{Log D} \quad | \cdot | | | | | | | | | | \\ \Delta x_2 = | | | | | \cdot | | | | | | | | | | \\ \Delta y_2 = | | | | | \cdot | | | | | | | | | | \\ +) \\ \hline D_2 = | | | | | \cdot | | | | | | | | | | \\ D = | | | | K | | | | \end{array} \quad \begin{array}{l} \text{Log} \Delta X \quad | \cdot | | | | | | | | | | \\ \text{LogcosB} \quad | \cdot | | | | | | | | | | \\ -) \\ \hline \text{Log D} \quad | \cdot | | | | | | | | | | \\ \text{距離} = | | | | K | | | | \\ \text{方位角} a = | | | | ^\circ - | | - | | \end{array}$$





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)	+	-	+	-
38	筆番号 14	6031.237	-	+ 23.358	3972.529	-	+ 9.757	304.779	,	1694.132	,
	5	6024.158	-	+ 3.462	3954.736	-	+ 19.128	462.094	,	189.496	,
	0.55	6027.775	-	⊖ 19.027	3953.401	-	+ 5.175	143.736	,	,	1016.061
	0.63	6043.185	-	⊖ 20.764	3949.561	-	⊖ 8.271	,	357.183	,	1029.085
	0.38	6048.539	-	⊖ 4.331	3961.672	-	⊖ 14.932	,	724.784	,	267.101
	0.38	6047.516	-	+ 17.302	3964.493	-	⊖ 10.857	,	515.801	1115.858	,

控除シタル値

X = 於テ 6000

y = 於テ 3900

$$\bar{x} = \frac{910.609}{6} = 151.768$$

$$\bar{y} = \frac{1397.848}{6} = 232.975$$

$$S = \frac{2999.486}{6} = 499.914$$

$$S = \frac{2312.247}{6} = 385.374$$

103.95 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)	+	-	+	-
38	筆番号 0.67	6024.386	-	+ 9.228	4049.886	-	+ 14.000	341.404	,	460.348	,
	9	6019.674	-	⊖ 10.382	4038.037	-	+ 18.521	364.382	,	,	394.900
	6	6034.768	-	⊖ 21.611	4031.365	-	⊖ 9.709	,	337.563	,	677.829
	13	6041.285	-	+ 1.705	4047.746	-	⊖ 19.370	,	799.690	81.407	,
	EC	6033.063	-	+ 12.383	4050.735	-	⊖ 4.291	,	141.873	628.252	,
	0.67	6028.902	-	+ 8.677	4052.037	-	+ 8.849	24.538	,	451.525	,

控除シタル値

X = 於テ 6000

y = 於テ 4000

$$\bar{x} = \frac{730.384}{6} = 121.731$$

$$\bar{y} = \frac{1279.126}{6} = 213.188$$

$$S = \frac{1621.532}{6} = 270.255$$

$$S = \frac{1072.729}{6} = 178.788$$

830109 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)	+	-	+	-
38											
筆番号	16	6,013.116	-	+ 17.051	3,981.474	-	+ 15.221	199,639		536,663	
(57)	3	6,005.256	-	A 1.727	3,961.716	-	+ 23.298	122,454			20,234
	4	6,014.843	-	A 17.051	3,958.176	-	15.221		225,925		139,409
	15	6,022.307	-	+ 1.727	3,976.937	-	23.298		519,708	46,520	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 6,000

y = 於テ 3,950

$\bar{x} = \frac{322,093}{4} = 80,523$        $\bar{y} = \frac{745,633}{4} = 186,408$

$\sum x^2 = \frac{423,540}{4} = 105,885$

$\sum y^2 = \frac{423,540}{4} = 105,885$

$S = \frac{211,770}{4} = 52,942$

64.0677 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)	+	-	+	-
38											
筆番号	15	6,022.307	-	+ 16.394	3,976.937	-	+ 14.353	320,172		441,605	
(194)	4	6,014.843	-	A 1.851	3,958.176	-	+ 22.201	329,529			15,134
	5	6,024.158	-	B 16.394	3,954.736	-	14.353		346,740		77,663
	14	6,031.837	-	+ 1.851	3,972.529	-	22.201		693,493	41,701	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 6,000

y = 於テ 3,950

$\bar{x} = \frac{649,701}{4} = 162,425$        $\bar{y} = \frac{1040,233}{4} = 260,058$

$\sum x^2 = \frac{390,532}{4} = 97,633$

$\sum y^2 = \frac{390,532}{4} = 97,633$

$S = \frac{195,266}{4} = 48,816$

59.0777 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)	+	-	+	-
38	38 <sup>7</sup>	5998.972	-	+ 6.308	3985.999	-	+ 9.892	88.761		100.922	
筆番号	2	5995.464	-	+ 5.951	3977.182	-	+ 12.580	68.737			42.740
(17)	18	6004.923	-	+ 13.482	3973.419	-	+ 6.351		94.776		46.095
	17	6008.946	-	+ 3.151	3983.533	-	+ 13.655		258.708	42.642	
	38 <sup>7</sup>	6001.772	-	+ 9.974	3987.074	-	+ 2.466		39.030	170.296	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5990

y = 於テ 3970

$$\bar{z} = \frac{157.488}{28} = 5.6246$$

$$2S = 225.026$$

$$S = 112.513$$

34.03<sup>27</sup> 年 月 日

面積計算用紙

30

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)	+	-	+	-
38	2	5995.464	-	+ 13.570	3977.182	-	+ 6.570	35.898		368.860	
筆番号	470 <sup>7</sup>	5991.353	-	+ 9.792	3966.849	-	+ 15.466	20.925			164.985
(5)	3	6005.256	-	+ 21.763	3961.716	-	+ 14.625		223.119		254.975
	16	6013.116	-	+ 3.690	3981.474	-	+ 21.817		504.322		116.139
	17	6008.946	-	+ 8.193	3983.533	-	+ 8.055	152.610		274.736	
	18	6004.923	-	+ 13.482	3973.419	-	+ 6.351	94.776		315.795	
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				
			-	-		-	-				

控除シタル値

X = 於テ 5990

y = 於テ 3950

$$\bar{z} = \frac{304.209}{28} = 10.8646$$

$$2S = 423.232$$

$$S = 211.616$$

64.01<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)	+	-	+	-
38	1	6,017.537	-	+ 67.690	4,032.651	-	+ 15.906	278.848		5,594.646	
筆番号	38 <sup>1'</sup>	6,002.026	-	+ 14.429	3,993.678	-	+ 41.772	84.630		630.230	
①6	38 <sup>2'</sup>	6,003.102	-	+ 47.027	3,990.879	-	+ 25.482	79.045			1,922.417
	38 <sup>2'</sup>	6,049.053	-	+ 48.772	3,968.196	-	+ 21.660	1,062.488			887.455
	38 <sup>2'</sup>	6,051.874	-	+ 20.663	3,969.219	-	+ 41.388		2,146.961		397.122
	8	6,069.716	-	+ 34.343	4,009.584	-	+ 63.432		4,422.225	2,046.293	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 6,000

y = 於テ 3,950

$\Sigma = 1505.071$      $6569.186$      $8271.169$      $3206.994$

$2S = 5064.175$

$5064.175$

$S = 2532.087$

765.96<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)	+	-	+	-
38	9	6,019.674	-	+ 54.527	4,038.037	-	+ 17.769		349.587	2,074.043	
筆番号	1	6,017.531	-	+ 50.042	4,032.651	-	+ 28.453	498.810			1,633.921
①7	8	6,069.716	-	+ 54.527	4,009.584	-	+ 17.769	1,138.784			528.587
	10	6,072.058	-	+ 50.042	4,014.882	-	+ 28.453		2,050.266	744.725	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X = 於テ 6,000

y = 於テ 4,000

$\Sigma = 1737.594$      $2399.853$      $2818.768$      $2156.508$

$2S = 662.259$

$662.260$

$S = 331.130$

100.17<sup>27</sup>

年 月 日

印

日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
38	筆番号										
	913	6.041.285	-	+ 10.417	4.047.746	-	+ 14.965	617.830		497.084	
	6	6.034.768	-	⊖ 30.773	4.031.365	-	+ 38.864	1.142.618			1965.195
	10	6.072.058	-	⊖ 41.548	4.014.882	-	+ 6.849	493.525			618.317
	964	6.076.316	-	⊖ 8.931	4.026.516	-	⊖ 14.455		1103.148		71.856
	964	6.076.989	-	+ 8.351	4.029.337	-	⊖ 9.808		735.492	244.993	
	Pa	6.067.965	-	+ 18.144	4.034.324	-	⊖ 11.508		788.141	622.775	
	Pb	6.056.845	-	+ 20.786	4.040.845	-	⊖ 12.006		682.421	730.694	
	Pc	6.045.179	-	+ 15.560	4.046.330	-	⊖ 6.901		311.780	720.895	

控除シタル値

X=於テ 6.000

y=於テ 4.000

$\Sigma = 2253.971$   $\Sigma = 2615.042$   $\Sigma = 2816.441$   $\Sigma = 1655.368$

$2S = 1361.071$

$1361.073$

S = 680.536

205.86<sup>坪</sup>

印  
日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
	筆番号										
	757	6.018.000	-	+ 10.000	4.018.000	-	+ 14.000	617.830		497.084	
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					
			-			-					

控除シタル値

X=於テ 6.000

y=於テ 4.000

$\Sigma = 11345.187$   $\Sigma = 261.038$   $\Sigma = 2227.967$   $\Sigma = 772.147$

$2S = 1361.071$

$1361.073$

S = 680.536

205.86<sup>坪</sup>

印  
日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	$\Delta X + \Delta X_{n+1}$	Yn	Yn-Yn+1	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
38	38 <sup>I</sup>	6002.026	-	+ 4.130	3993.678	-	+ 4.880	497,887		386,890	
筆番号 通登	38 <sup>II</sup>	5998.972	-	+ 2.54	3985.999	-	+ 6.604	653,611		21,844	
	38 <sup>III</sup>	6001.772	-	⊙ 48.544	3987.074	-	+ 21.506	2188,709			4226,920
	38 <sup>IV</sup>	6047.516	-	⊙ 46.767	3964.493	-	+ 25.402	3747,201			3016,144
	38 <sup>V</sup>	6048.539	-	⊙ 4.358	3961.672	-	⊙ 4.726		701,995		268,767
	38 <sup>VI</sup>	6051.874	-	⊙ 5.14	3969.219	-	⊙ 6.524		990,826		35,579
	38 <sup>VII</sup>	6049.053	-	+ 48.772	3968.196	-	⊙ 21.660		3228,488	3326,055	
	38 <sup>VIII</sup>	6003.102	-	+ 47.027	3990.879	-	⊙ 25.482		2627,245	4273,767	

控除シタル値  
X = 於テ  
y = 於テ

$$\bar{x} = 7087.408 \quad \bar{y} = 7548.554 \quad \sum x^2 = 8008.556 \quad \sum y^2 = 7547.410$$

$$2S = 461.146 \quad S = 230.573$$

69.75 坪 年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	$\Delta X + \Delta X_{n+1}$	Yn	Yn-Yn+1	$\Delta y_n + \Delta y_{n+1}$	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-

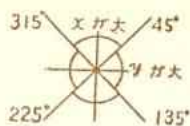
控除シタル値  
X = 於テ  
y = 於テ

M =  
2S =  
S =

年 月 日

多角点計算用紙

測量No. 1



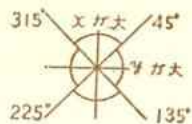
象 限	I	+	/	+	/
	II		\	+	/
	III		\	-	\
	IV	+	/	-	\

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	
	969 <sup>II</sup>	0	"	0	"							6025.647	4053.054	969 <sup>II</sup>
969 <sup>II</sup>	969 <sup>II</sup>			248 18 21	3.410	369657	929168					6026.386	4049.886	969 <sup>II</sup>
969 <sup>II</sup>	9				12.752	"	"					6019.674	4038.037	9
9	1				5.797	"	"					6017.537	4032.657	1
1	38 <sup>I</sup>				41.943	"	"					6002.026	3993.678	38 <sup>I</sup>
38 <sup>I</sup>	38 <sup>I</sup>				2.041	"	"					6001.272	3991.782	38 <sup>I</sup>
38 <sup>I</sup>	38 <sup>II</sup>	89.366			4.013	"	"					5999.789	3988.053	38 <sup>II</sup>
38 <sup>II</sup>	38 <sup>II</sup>				2.211	"	"					5998.972	3985.999	38 <sup>II</sup>
38 <sup>II</sup>	2				9.489	"	"					5995.464	3977.182	2
2	970 <sup>II</sup>				11.120	"	"					5991.353	3966.849	970 <sup>II</sup>
970 <sup>II</sup>	3			339 44 03	14.820	346390	938091					6005.256	3961.716	3
3	4	38.825			10.280	"	"					6014.843	3958.176	4
4	5				9.930	"	"					6026.158	3954.736	5
5	255				3.855	"	"					6027.775	3953.401	255
255	963 <sup>II</sup>			346 00 31	15.881	241781	970337					6043.185	3949.561	963 <sup>II</sup>
963 <sup>II</sup>	38 <sup>II</sup>			66 09 14	12.242	404299	914627					6048.539	3961.672	38 <sup>II</sup>
38 <sup>II</sup>	38 <sup>III</sup>				2.078	"	"					6049.379	3963.573	38 <sup>III</sup>
38 <sup>III</sup>	38 <sup>III</sup>				4.004	"	"					6050.997	3967.236	38 <sup>III</sup>
38 <sup>III</sup>	38 <sup>IV</sup>	81.950			2.168	"	"					6049.053	3968.196	38 <sup>IV</sup>
38 <sup>IV</sup>	8				44.132	"	"					6069.716	4009.584	8
8	10				5.793	"	"					6072.258	4014.882	10
10	964 <sup>III</sup>				10.533	"	"					6076.316	4026.516	964 <sup>III</sup>
964 <sup>III</sup>	964 <sup>III</sup>				3.228	"	"					6077.621	4027.468	964 <sup>III</sup>



多角点計算用紙

測量No. \_\_\_\_\_

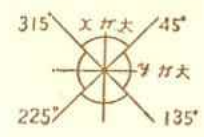


象 限	I	+	/	+	/
	II	-	/	+	/
	III	-	/	-	/
	IV	+	/	-	/

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	
	970 <sup>IV</sup>	° ' "		° ' "	.			.	.	.	.	5991.353	3966.849	970 <sup>IV</sup>
970 <sup>IV</sup>	38 <sup>IV</sup>			68 18 21	22.820	369657	929168	8.436	21.204	.	.	5999.789	3988.053	38 <sup>IV</sup>
	963 <sup>III</sup>			.	.			.	.	.	.	6043.185	3949.561	963 <sup>III</sup>
963 <sup>III</sup>	38 <sup>III</sup>			66 09 14	15.320	404299	914627	6.194	16.012	.	.	6049.379	3963.573	38 <sup>III</sup>
	38 <sup>IV</sup>			.	.			.	.	.	.	5999.789	3988.053	38 <sup>IV</sup>
38 <sup>IV</sup>	38 <sup>IV'</sup>			248 18 21	2.211	369657	929168	.	817	.	2.054	5998.972	3985.999	38 <sup>IV'</sup>
"	38 <sup>IV''</sup>			333 43 38	2.211	442637	896701	1.983	.	.	979	6001.772	3987.076	38 <sup>IV''</sup>
	38 <sup>III</sup>			.	.			.	.	.	.	6049.379	3963.573	38 <sup>III</sup>
38 <sup>III</sup>	38 <sup>III'</sup>			246 09 14	2.078	404299	914627	.	840	.	1.901	6048.539	3961.672	38 <sup>III'</sup>
"	38 <sup>III''</sup>			153 43 38	2.078	442637	896701	.	1.863	.	920	6047.516	3964.493	38 <sup>III''</sup>
"	A			63 43 38	4.000	.	.	1.771	.	3.587	.	6051.150	3967.160	A
	38 <sup>I</sup>			.	.			.	.	.	.	6001.272	3991.782	38 <sup>I</sup>
38 <sup>I</sup>	38 <sup>I'</sup>			68 18 21	2.041	369657	929168	754	.	1.896	.	6002.026	3993.678	38 <sup>I'</sup>
"	38 <sup>I''</sup>			333 43 38	2.041	442637	896701	1.830	.	.	903	6003.102	3990.879	38 <sup>I''</sup>
	38 <sup>II</sup>			.	.			.	.	.	.	6050.997	3967.236	38 <sup>II</sup>
38 <sup>II</sup>	38 <sup>II'</sup>			153 43 38	2.168	442637	896701	.	1.944	.	960	6049.053	3968.196	38 <sup>II'</sup>
"	38 <sup>II''</sup>			66 09 14	2.168	404299	914627	877	.	1.983	.	6051.874	3969.219	38 <sup>II''</sup>

多角点計算用紙

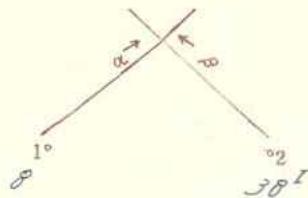
測量No.



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

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点
						Sin	CoS	N(+)	S(-)	E(+)	W(-)	X	Y	
	38 <sup>IV</sup>	° ' "		° ' "	.			.	.	.	.	5999.789	3988.053	38 <sup>IV</sup>
38 <sup>IV</sup>	2			248 18 21	11.700	369657	929168	.	4.325	.	10.871	5995.464	3977.182	2
2	18			338 18 21	10.180	"	"	9.459	.	.	3.763	6004.923	3973.419	18
	470 <sup>IV</sup>				.			.	.	.	.	5991.353	3966.849	470 <sup>IV</sup>
470 <sup>IV</sup>	3			339 44 03	14.820	346390	938091	13.903	.	.	5.133	6005.256	3961.716	3
3	4			"	10.220	"	"	9.587	.	.	3.540	6014.843	3958.176	4
4	5			"	9.930	"	"	9.315	.	.	3.440	6024.158	3954.736	5
	255				.			.	.	.	.			255
	38 <sup>II</sup>				.			.	.	.	.	6050.997	3967.236	38 <sup>II</sup>
38 <sup>II</sup>	8			66 09 14	46.300	404299	914627	18.719	.	42.347	.	6069.716	4009.584	8
8	10			"	5.793	"	"	2.342	.	5.298	.	6072.058	4014.882	10
	9				5.330			.	.	.	.			9
9	6			336 09 14	16.503	404299	914627	15.094	.	6.672	6036.768	4031.365	6	
	1				.			.	.	.	.			1

算出点 /



$$\begin{aligned} 38^\circ X_2 &= - \underline{610511.02172} \\ 8 X_1 &= - \underline{610619.07116} \\ \Delta X &= -21618.04444 \end{aligned}$$

$$\alpha = 156^\circ - 69' - 14''$$

$$\beta = 168^\circ - 18' - 27''$$

$$\beta - \alpha = 12^\circ - 09' - 13''$$

$$\begin{aligned} \Delta Y \times ③ &= 91161.05555 \\ \Delta X \times ④ &= 9161.05555 \\ E &= \underline{1171.05117} \end{aligned}$$

$$S_1 = \frac{E}{⑤} = \underline{171.05117}$$

$$\begin{aligned} S_1 \times ① &= 0 \\ X_1 &= - \underline{610619.07116} \\ X &= - \underline{610619.07116} \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= + \underline{1171.05117} \\ Y_1 &= - \underline{610619.07116} \\ Y &= - \underline{610619.07116} \end{aligned}$$

$$\begin{aligned} Y_2 &= - \underline{610619.07116} \\ Y_1 &= - \underline{610619.07116} \\ \Delta Y &= 0 \end{aligned}$$

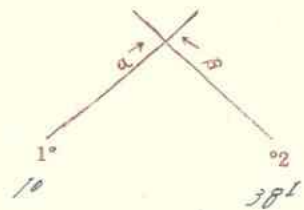
$$\begin{aligned} \text{Cos } \alpha &= 0.1111111111 \text{ ①} \\ \text{Sin } \alpha &= +0.9999999999 \text{ ②} \\ \text{Cos } \beta &= +0.1111111111 \text{ ③} \\ \text{Sin } \beta &= +0.9999999999 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.1111111111 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times ① &= + \underline{1171.05117} \\ \Delta X \times ② &= 9161.05555 \\ F &= \underline{1171.05117} \end{aligned}$$

$$\begin{aligned} S_2 \times ③ &= + \underline{1171.05117} \\ X_2 &= - \underline{610619.07116} \\ X &= - \underline{610619.07116} \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= + \underline{1171.05117} \\ Y_2 &= - \underline{610619.07116} \\ Y &= - \underline{610619.07116} \end{aligned}$$

算出点 /



$$\begin{aligned} 38^\circ X_2 &= - \underline{610511.02172} \\ 10 X_1 &= - \underline{610711.05555} \\ \Delta X &= -21618.04444 \end{aligned}$$

$$\alpha = \dots$$

$$\beta = \dots$$

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

$$\begin{aligned} \Delta Y \times ③ &= 91161.05555 \\ \Delta X \times ④ &= 9161.05555 \\ E &= \underline{1171.05117} \end{aligned}$$

$$S_1 = \frac{E}{⑤} = \underline{1171.05117}$$

$$\begin{aligned} S_1 \times ① &= 0 \\ X_1 &= - \underline{610711.05555} \\ X &= - \underline{610711.05555} \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= + \underline{1171.05117} \\ Y_1 &= - \underline{610711.05555} \\ Y &= - \underline{610711.05555} \end{aligned}$$

$$\begin{aligned} Y_2 &= - \underline{610619.07116} \\ Y_1 &= - \underline{610619.07116} \\ \Delta Y &= 0 \end{aligned}$$

$$\begin{aligned} \text{Cos } \alpha &= -0.1111111111 \text{ ①} \\ \text{Sin } \alpha &= -0.9999999999 \text{ ②} \\ \text{Cos } \beta &= -0.1111111111 \text{ ③} \\ \text{Sin } \beta &= -0.9999999999 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.1111111111 \text{ ⑤} \end{aligned}$$

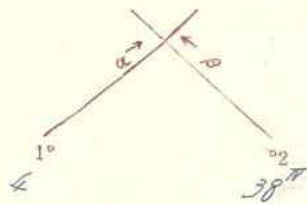
$$\begin{aligned} \Delta Y \times ① &= + \underline{1171.05117} \\ \Delta X \times ② &= 9161.05555 \\ F &= \underline{1171.05117} \end{aligned}$$

$$S_2 = \frac{F}{⑤} = \underline{1171.05117}$$

$$\begin{aligned} S_2 \times ③ &= + \underline{1171.05117} \\ X_2 &= - \underline{610619.07116} \\ X &= - \underline{610619.07116} \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= + \underline{1171.05117} \\ Y_2 &= - \underline{610619.07116} \\ Y &= - \underline{610619.07116} \end{aligned}$$

算出点 15



$$\begin{aligned} X_2 &= -519191.1789 \\ X_1 &= -610214.1843 \\ \Delta X &= -1115.0054 \end{aligned}$$

$$\begin{aligned} \alpha &= 168^\circ - 38' - 17'' \\ \beta &= 133^\circ - 45' - 38'' \\ \beta - \alpha &= 128^\circ - 25' - 17'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= +1261.79062 \\ \Delta X \times \textcircled{4} &= +1161.66358 \\ E &= 1201.12704 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 1201.12715$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +117.4664 \\ X_1 &= -610214.1843 \\ X &= -610214.1843 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +118.7617 \\ Y_1 &= -395581.1726 \\ Y &= -395761.1737 \end{aligned}$$

$$\begin{aligned} Y_2 &= -395881.1053 \\ Y_1 &= -395581.1726 \\ \Delta Y &= -+1289.8717 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +.1316161512 \textcircled{1} \\ \text{Sin} \alpha &= +.9912121710 \textcircled{2} \\ \text{Cos} \beta &= +.1891616171 \textcircled{3} \\ \text{sin} \beta &= \ominus.4142161451 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.1996181019 \textcircled{5} \end{aligned}$$

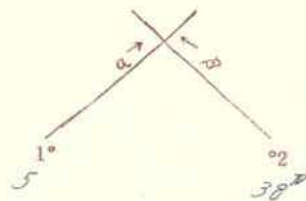
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +111.04409 \\ \Delta X \times \textcircled{2} &= \ominus113.198773 \\ F &= 125.103182 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 125.11210$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +127.5118 \\ X_2 &= -519191.1789 \\ X &= -610214.1843 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= \ominus111.1116 \\ Y_2 &= -395881.1053 \\ Y &= -395761.1737 \end{aligned}$$

算出点 14



$$\begin{aligned} X_2 &= -519191.1789 \\ X_1 &= -610214.1843 \\ \Delta X &= -1115.0054 \end{aligned}$$

$$\begin{aligned} \alpha &= 119^\circ - 11' \\ \beta &= 119^\circ - 11' \\ \beta - \alpha &= 0^\circ \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= -129.87525 \\ \Delta X \times \textcircled{4} &= +110.78682 \\ E &= 119.08843 \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = 119.12495$$

$$\begin{aligned} S_1 \times \textcircled{1} &= +117.10179 \\ X_1 &= -610214.1843 \\ X &= -610214.1843 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= +117.793 \\ Y_1 &= -395581.1736 \\ Y &= -395761.1737 \end{aligned}$$

$$\begin{aligned} Y_2 &= -395881.1053 \\ Y_1 &= -395581.1736 \\ \Delta Y &= -+1289.8717 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +.1316161512 \textcircled{1} \\ \text{Sin} \alpha &= +.9912121710 \textcircled{2} \\ \text{Cos} \beta &= +.1891616171 \textcircled{3} \\ \text{sin} \beta &= \ominus.4142161451 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -.1996181019 \textcircled{5} \end{aligned}$$

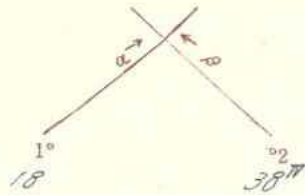
$$\begin{aligned} \Delta Y \times \textcircled{1} &= +112.31570 \\ \Delta X \times \textcircled{2} &= \ominus128.64294 \\ F &= 124.195964 \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = 124.10706$$

$$\begin{aligned} S_2 \times \textcircled{3} &= +131.1448 \\ X_2 &= -519191.1789 \\ X &= -610214.1843 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= \ominus115.1524 \\ Y_2 &= -395881.1053 \\ Y &= -395761.1737 \end{aligned}$$

算出点 17



$$\begin{aligned} 38^\circ X_2 &= - \frac{101513}{101513} \\ 18 X_1 &= - \frac{101513}{101513} \\ \Delta X &= 0 \end{aligned}$$

$$\alpha = 166^\circ - 18^\circ - 38^\circ$$

$$\beta = 18^\circ - 166^\circ - 38^\circ$$

$$\beta - \alpha = 178^\circ - 18^\circ - 38^\circ$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + \frac{101513}{101513} \\ \Delta X \times \textcircled{4} &= + \frac{101513}{101513} \\ E &= \frac{101513}{101513} \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = \frac{101513}{101513}$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + \frac{101513}{101513} \\ X_1 &= - \frac{101513}{101513} \\ X &= - \frac{101513}{101513} \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + \frac{101513}{101513} \\ Y_1 &= - \frac{101513}{101513} \\ Y &= - \frac{101513}{101513} \end{aligned}$$

$$\begin{aligned} Y_2 &= - \frac{101513}{101513} \\ Y_1 &= - \frac{101513}{101513} \\ \Delta Y &= - \frac{101513}{101513} \end{aligned}$$

$$\text{Cos} \alpha = + \frac{101513}{101513} \textcircled{1}$$

$$\text{Sin} \alpha = + \frac{101513}{101513} \textcircled{2}$$

$$\text{Cos} \beta = + \frac{101513}{101513} \textcircled{3}$$

$$\text{sin} \beta = - \frac{101513}{101513} \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = - \frac{101513}{101513} \textcircled{5}$$

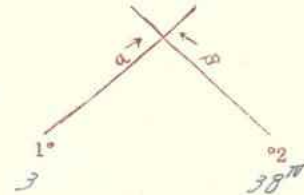
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + \frac{101513}{101513} \\ \Delta X \times \textcircled{2} &= 0 \\ F &= \frac{101513}{101513} \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = \frac{101513}{101513}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + \frac{101513}{101513} \\ X_2 &= - \frac{101513}{101513} \\ X &= - \frac{101513}{101513} \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= - \frac{101513}{101513} \\ Y_2 &= - \frac{101513}{101513} \\ Y &= - \frac{101513}{101513} \end{aligned}$$

算出点 16



$$\begin{aligned} 38^\circ X_2 &= - \frac{101513}{101513} \\ 3 X_1 &= - \frac{101513}{101513} \\ \Delta X &= - \frac{101513}{101513} \end{aligned}$$

$$\alpha = 166^\circ - 3^\circ - 38^\circ$$

$$\beta = 3^\circ - 166^\circ - 38^\circ$$

$$\beta - \alpha = 178^\circ - 3^\circ - 38^\circ$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= + \frac{101513}{101513} \\ \Delta X \times \textcircled{4} &= + \frac{101513}{101513} \\ E &= \frac{101513}{101513} \end{aligned}$$

$$S_1 = \frac{E}{\textcircled{5}} = \frac{101513}{101513}$$

$$\begin{aligned} S_1 \times \textcircled{1} &= + \frac{101513}{101513} \\ X_1 &= - \frac{101513}{101513} \\ X &= - \frac{101513}{101513} \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= + \frac{101513}{101513} \\ Y_1 &= - \frac{101513}{101513} \\ Y &= - \frac{101513}{101513} \end{aligned}$$

$$\begin{aligned} Y_2 &= - \frac{101513}{101513} \\ Y_1 &= - \frac{101513}{101513} \\ \Delta Y &= - \frac{101513}{101513} \end{aligned}$$

$$\text{Cos} \alpha = + \frac{101513}{101513} \textcircled{1}$$

$$\text{Sin} \alpha = + \frac{101513}{101513} \textcircled{2}$$

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

$$\text{sin} \beta = - \frac{101513}{101513} \textcircled{4}$$

$$\text{Sin}(\beta - \alpha) = - \frac{101513}{101513} \textcircled{5}$$

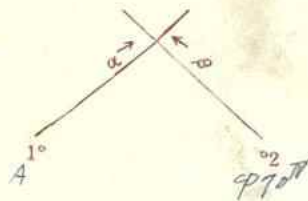
$$\begin{aligned} \Delta Y \times \textcircled{1} &= + \frac{101513}{101513} \\ \Delta X \times \textcircled{2} &= 0 \\ F &= \frac{101513}{101513} \end{aligned}$$

$$S_2 = \frac{F}{\textcircled{5}} = \frac{101513}{101513}$$

$$\begin{aligned} S_2 \times \textcircled{3} &= + \frac{101513}{101513} \\ X_2 &= - \frac{101513}{101513} \\ X &= - \frac{101513}{101513} \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= - \frac{101513}{101513} \\ Y_2 &= - \frac{101513}{101513} \\ Y &= - \frac{101513}{101513} \end{aligned}$$

算出点  $38^{\circ}$



$$\begin{aligned} 970^{\circ} X_2 &= -519191.1353 \\ A X_1 &= -610511.1150 \\ \Delta X &= -115191.7197 \end{aligned}$$

$$\alpha = 151^{\circ} - 43' - 13''$$

$$\beta = 168^{\circ} - 48' - 12''$$

$$\beta - \alpha = 19^{\circ} - 34' - 14''$$

$$\begin{aligned} \Delta Y \times ③ &= 91111.1111 \\ \Delta X \times ④ &= 91151.1561 \\ E &= 1151.4466 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 151.6241$$

$$\begin{aligned} S_1 \times ① &= 91149.1817 \\ X_1 &= -610511.1150 \\ X &= -610511.2172 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= +11214.1622 \\ Y_1 &= -319161.1161 \\ Y &= -319191.1782 \end{aligned}$$

$$\begin{aligned} Y_2 &= -319161.1819 \\ Y_1 &= -319171.1166 \\ \Delta Y &= -111.0347 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.1891619171 \text{ ①} \\ \text{Sin} \alpha &= +0.144216451 \text{ ②} \\ \text{Cos} \beta &= +0.1318161521 \text{ ③} \\ \text{sin} \beta &= +0.1921911701 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.191618191 \text{ ⑤} \end{aligned}$$

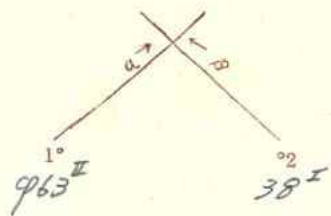
$$\begin{aligned} \Delta Y \times ① &= +1111.1111 \\ \Delta X \times ② &= 91121.1468 \\ F &= 1121.1747 \end{aligned}$$

$$S_2 = \left| \frac{F}{⑤} \right| = 126.1833$$

$$\begin{aligned} S_2 \times ③ &= +1119.1919 \\ X_2 &= -519191.1353 \\ X &= -610511.2172 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= +11214.1913 \\ Y_2 &= -319161.1819 \\ Y &= -319191.1782 \end{aligned}$$

算出点  $38^{\circ}$



$$\begin{aligned} 38^{\circ} X_2 &= -610101.1217 \\ 963^{\circ} X_1 &= -610431.1185 \\ \Delta X &= -1141.1913 \end{aligned}$$

$$\alpha = 166^{\circ} - 49' - 14''$$

$$\beta = 133^{\circ} - 43' - 38''$$

$$\beta - \alpha = 28^{\circ} - 34' - 24''$$

$$\begin{aligned} \Delta Y \times ③ &= +1117.1819 \\ \Delta X \times ④ &= +1119.1512 \\ E &= 1119.1316 \end{aligned}$$

$$S_1 = \left| \frac{E}{⑤} \right| = 119.1316$$

$$\begin{aligned} S_1 \times ① &= +1117.1819 \\ X_1 &= -610431.1185 \\ X &= -610510.1917 \end{aligned}$$

$$\begin{aligned} S_1 \times ② &= +11171.1617 \\ Y_1 &= -319161.1561 \\ Y &= -319161.2316 \end{aligned}$$

$$\begin{aligned} Y_2 &= -319191.1782 \\ Y_1 &= -319491.1561 \\ \Delta Y &= -1142.1211 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= +0.141421821 \text{ ①} \\ \text{Sin} \alpha &= +0.1914613151 \text{ ②} \\ \text{Cos} \beta &= +0.181961619171 \text{ ③} \\ \text{sin} \beta &= 0.144216451 \text{ ④} \\ \text{Sin}(\beta - \alpha) &= -0.1919110131 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times ① &= +1117.1019 \\ \Delta X \times ② &= 0131.1315 \\ F &= 1151.4141 \end{aligned}$$

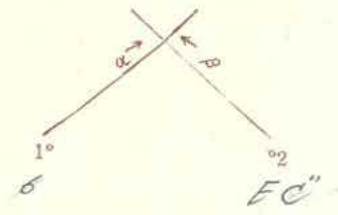
$$S_2 = \left| \frac{F}{⑤} \right| = 151.4154$$

$$\begin{aligned} S_2 \times ③ &= +1149.1721 \\ X_2 &= -610101.1217 \\ X &= -610510.1917 \end{aligned}$$

$$\begin{aligned} S_2 \times ④ &= 011214.1546 \\ Y_2 &= -319191.1782 \\ Y &= -319161.2316 \end{aligned}$$

38

算出点 13



$$\begin{aligned} EC \times X_2 &= -610331.063 \\ X_1 &= -610341.768 \\ \Delta X &= -0111.705 \end{aligned}$$

$$\begin{aligned} \alpha &= 68^\circ - 18' - 21'' \\ \beta &= 120^\circ - 61' - 27'' \\ \beta - \alpha &= 52^\circ - 43' - 6'' \end{aligned}$$

$$\begin{aligned} Y_2 &= -461501.735 \\ Y_1 &= -461371.365 \\ \Delta Y &= +129.370 \end{aligned}$$

$$\begin{aligned} \cos \alpha &= +.19696527 \text{ ①} \\ \sin \alpha &= +.19691710 \text{ ②} \\ \cos \beta &= +.19398937 \text{ ③} \\ \sin \beta &= +.13476674 \text{ ④} \\ \sin(\beta - \alpha) &= -.19995501 \text{ ⑤} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{③} &= +1118.20664 \\ \Delta X \times \text{④} &= +7111.58427 \\ E &= 117.62217 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +1117.261016 \\ \Delta X \times \text{②} &= +0111.58427 \\ F &= 118.74439 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 117.62217$$

$$S_2 = \frac{F}{\text{⑤}} = 118.74439$$

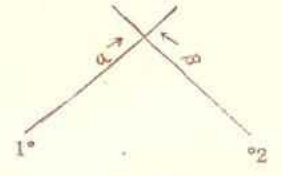
$$\begin{aligned} S_1 \times \text{①} &= +1116.15117 \\ X_1 &= -610341.768 \\ X &= -610411.285 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= +1118.2222 \\ X_2 &= -610331.063 \\ X &= -610411.285 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +1116.19817 \\ Y_1 &= -461371.365 \\ Y &= -461471.746 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= +0111.91819 \\ Y_2 &= -461501.735 \\ Y &= -461471.746 \end{aligned}$$

算出点



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

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

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

$$S_1 = \frac{E}{\text{⑤}} =$$

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

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

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

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

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

$$S_2 = \frac{F}{\text{⑤}} =$$

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

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

$$38^\circ X_2 = 1610619 \cdot 13179$$

$$38^\circ X_1 = 1599919 \cdot 17089$$

$$\Delta X = 11491.590$$

$$\text{Log} \Delta y$$

$$\text{Log} \Delta X$$

$$\text{Logtan} B = 4936419$$

$$B = 26^\circ - 16' - 23''$$

$$\text{Log} \Delta y$$

$$\text{Logsin} B = 4186158$$

$$\text{Log} D$$

$$\Delta x_2 =$$

$$\Delta y_2 =$$

$$+$$

$$D_2 = 15518303$$

$$D = 15518303$$

$$Y_2 = 1396631 \cdot 15173$$

$$Y_1 = 1398881 \cdot 10653$$

$$\Delta Y = 214.480$$

$$\text{Log} \Delta X$$

$$\text{Logcos} B = 9963999$$

$$\text{Log} D$$

$$\Delta x_2 =$$

$$\Delta y_2 =$$

$$+$$

$$D_2 = 15518303$$

$$D = 15518303$$

距離 = 15518303  
方位角 a = 333° - 43' - 38''

$\Delta X$	$\Delta Y$	B, 在 a 象限	X ヲ 出 スニハ
+	+	I	B
-	+	II	180° - B
-	-	III	180° + B
+	-	IV	360° - B

$$X_2 =$$

$$X_1 =$$

$$\Delta X =$$

$$\text{Log} \Delta y$$

$$\text{Log} \Delta X$$

$$\text{Logtan} B$$

$$B$$

$$\text{Log} \Delta y$$

$$\text{Logsin} B$$

$$\text{Log} D$$

$$\Delta x_2 =$$

$$\Delta y_2 =$$

$$+$$

$$D_2 =$$

$$D =$$

$$Y_2 =$$

$$Y_1 =$$

$$\Delta y =$$

$$\text{Log} \Delta X$$

$$\text{Logcos} B$$

$$\text{Log} D$$

$$B$$

$$\text{Log} \Delta X$$

$$\text{Logcos} B$$

$$\text{Log} D$$

$$\Delta x_2 =$$

$$\Delta y_2 =$$

$$+$$

$$D_2 =$$

$$D =$$

距離 = |K|  
方位角 a = |°-| |'-| |''

$$X_2 =$$

$$X_1 =$$

$$\Delta X =$$

$$\text{Log} \Delta y$$

$$\text{Log} \Delta X$$

$$\text{Logtan} B$$

$$B$$

$$\text{Log} \Delta y$$

$$\text{Logsin} B$$

$$\text{Log} D$$

$$\Delta x_2 =$$

$$\Delta y_2 =$$

$$+$$

$$D_2 =$$

$$D =$$

$$Y_2 =$$

$$Y_1 =$$

$$\Delta Y =$$

$$\text{Log} \Delta X$$

$$\text{Logcos} B$$

$$\text{Log} D$$

$$B$$

$$\text{Log} \Delta X$$

$$\text{Logcos} B$$

$$\text{Log} D$$

$$\Delta x_2 =$$

$$\Delta y_2 =$$

$$+$$

$$D_2 =$$

$$D =$$

距離 = |K|  
方位角 a = |°-| |'-| |''

$$X_2 =$$

$$X_1 =$$

$$\Delta X =$$

$$\text{Log} \Delta y$$

$$\text{Log} \Delta X$$

$$\text{Logtan} B$$

$$B$$

$$\text{Log} \Delta y$$

$$\text{Logsin} B$$

$$\text{Log} D$$

$$\Delta x_2 =$$

$$\Delta y_2 =$$

$$+$$

$$D_2 =$$

$$D =$$

$$Y_2 =$$

$$Y_1 =$$

$$\Delta y =$$

$$\text{Log} \Delta X$$

$$\text{Logcos} B$$

$$\text{Log} D$$

$$B$$

$$\text{Log} \Delta X$$

$$\text{Logcos} B$$

$$\text{Log} D$$

$$\Delta x_2 =$$

$$\Delta y_2 =$$

$$+$$

$$D_2 =$$

$$D =$$

距離 = |K|  
方位角 a = |°-| |'-| |''

隅切辺長及面積計算用紙

点名	38		
	I	II	III
$\alpha$ (X)	68° 18' 21"	66° 09' 14"	66° 09' 14"
$\alpha'$ (Y)	153° 43' 38"	153° 43' 38"	153° 43' 38"
A	94° 34' 43"	87° 34' 24"	92° 25' 36"
$\frac{A}{2}$	47° 17' 21"	43° 47' 12"	46° 12' 48"
$\frac{a}{2}$	1500	1500	1500
① $\sin \frac{A}{2}$	9866161	9840090	9858490
② $\frac{a}{2}$	0176091	0176091	0176091
③ $\tan \frac{A}{2}$	0034740		
$b = (② + ①)$	0309930	0336001	0317601
$c = (② + ③)$	0141351		
b	2061	2168	2078
c	1385		
$\frac{a}{2} c =$	2177		

点名	I	II	III
$\alpha$ (X)			
$\alpha'$ (Y)			
A			
$\frac{A}{2}$			
$\frac{a}{2}$			
① $\sin \frac{A}{2}$			
② $\frac{a}{2}$			
③ $\tan \frac{A}{2}$			
$b = (② + ①)$			
$c = (② + ③)$			
b			
c			
$\frac{a}{2} c =$			

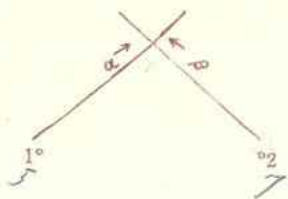
変更後

39





算出点 6



$$\begin{aligned} 7 X_2 &= - 45999.0565 \\ 5 X_1 &= - 40000.0000 \\ \Delta X &= 91716.0565 \end{aligned}$$

$$\begin{aligned} \alpha &= 108^\circ - 18' - 51'' \\ \beta &= 337^\circ - 54' - 10'' \\ \beta - \alpha &= 577^\circ - 35' - 16'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 11118.78774 \\ \Delta X \times \textcircled{4} &= 11118.78774 \\ E &= 11118.78774 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 11118.78774$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 11118.78774 \\ X_1 &= - 11118.78774 (+) \\ X &= - 44444.0000 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 11118.78774 \\ Y_1 &= - 11118.78774 (+) \\ Y &= - 44444.0000 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 40000.0000 \\ Y_1 &= - 40000.0000 \\ \Delta Y &= - 80000.0000 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.3169875 \textcircled{1} \\ \text{Sin} \alpha &= 0.9491178 \textcircled{2} \\ \text{Cos} \beta &= 0.9999999 \textcircled{3} \\ \text{sin} \beta &= 0.0000000 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.9999999 \textcircled{5} \end{aligned}$$

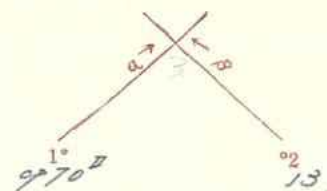
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 11118.78774 \\ \Delta X \times \textcircled{2} &= -11118.78774 \\ F &= 11118.78774 \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{5}} = 11118.78774$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 11118.78774 \\ X_2 &= - 11118.78774 (+) \\ X &= - 44444.0000 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \\ Y_2 &= - 11118.78774 (+) \\ Y &= - 44444.0000 \end{aligned}$$

算出点 6



$$\begin{aligned} 10 X_2 &= - 19999.0000 \\ 970 X_1 &= - 19999.0000 \\ \Delta X &= 0.0000 \end{aligned}$$

$$\begin{aligned} \alpha &= 111^\circ - 11' - 11'' \\ \beta &= 111^\circ - 11' - 11'' \\ \beta - \alpha &= 0^\circ - 0' - 0'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 11118.78774 \\ \Delta X \times \textcircled{4} &= 11118.78774 \\ E &= 11118.78774 \end{aligned}$$

$$S_1 = \frac{|E|}{\textcircled{5}} = 11118.78774$$

$$\begin{aligned} S_1 \times \textcircled{1} &= 11118.78774 \\ X_1 &= - 11118.78774 (+) \\ X &= - 44444.0000 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= 11118.78774 \\ Y_1 &= - 11118.78774 (+) \\ Y &= - 44444.0000 \end{aligned}$$

$$\begin{aligned} Y_2 &= - 40000.0000 \\ Y_1 &= - 40000.0000 \\ \Delta Y &= - 80000.0000 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.3169875 \textcircled{1} \\ \text{Sin} \alpha &= 0.9491178 \textcircled{2} \\ \text{Cos} \beta &= 0.9999999 \textcircled{3} \\ \text{sin} \beta &= 0.0000000 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -0.9999999 \textcircled{5} \end{aligned}$$

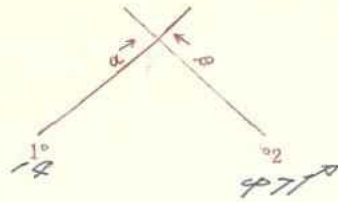
$$\begin{aligned} \Delta Y \times \textcircled{1} &= 11118.78774 \\ \Delta X \times \textcircled{2} &= -11118.78774 \\ F &= 11118.78774 \end{aligned}$$

$$S_2 = \frac{|F|}{\textcircled{5}} = 11118.78774$$

$$\begin{aligned} S_2 \times \textcircled{3} &= 11118.78774 \\ X_2 &= - 11118.78774 (+) \\ X &= - 44444.0000 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= 0 \\ Y_2 &= - 11118.78774 (+) \\ Y &= - 44444.0000 \end{aligned}$$

算出点	2
-----	---



$$\begin{aligned} X_2 &= -1942.1544 \\ X_1 &= -1977.1015 \\ \Delta X &= 0.1116 \end{aligned}$$

$$\begin{aligned} \alpha &= 159^\circ - 54' - 10'' \\ \beta &= 176^\circ - 58' - 14'' \\ \beta - \alpha &= 19^\circ - 4' - 4'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0.1116 \cdot 103.19 \\ \Delta X \times \textcircled{4} &= 0.1116 \cdot 103.19 \\ E &= 11.51 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 12.1161$$

$$\begin{aligned} S_1 \times \textcircled{1} &= \ominus \frac{11.51 \cdot 103.19}{103.19} \\ X_1 &= - \frac{11.51 \cdot 103.19}{103.19} (+) \\ X &= -11.51 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= \frac{11.51 \cdot 103.19}{103.19} \\ Y_1 &= - \frac{11.51 \cdot 103.19}{103.19} (+) \\ Y &= -11.51 \end{aligned}$$

$$\begin{aligned} Y_2 &= -1997.1015 \\ Y_1 &= -1977.1015 \\ \Delta Y &= 0.1116 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.1116 \cdot 103.19 \textcircled{1} \\ \text{Sin} \alpha &= 1.116 \cdot 103.19 \textcircled{2} \\ \text{Cos} \beta &= 1.116 \cdot 103.19 \textcircled{3} \\ \text{sin} \beta &= 1.116 \cdot 103.19 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -1.116 \cdot 103.19 \textcircled{5} \end{aligned}$$

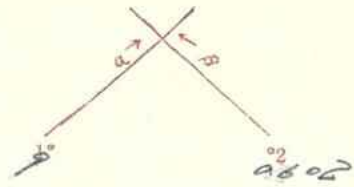
$$\begin{aligned} \Delta Y \times \textcircled{1} &= -1.116 \cdot 103.19 \\ \Delta X \times \textcircled{2} &= 0.1116 \cdot 103.19 \\ F &= 11.51 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 12.1161$$

$$\begin{aligned} S_2 \times \textcircled{3} &= \frac{11.51 \cdot 103.19}{103.19} \\ X_2 &= - \frac{11.51 \cdot 103.19}{103.19} (+) \\ X &= -11.51 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= \frac{11.51 \cdot 103.19}{103.19} \\ Y_2 &= - \frac{11.51 \cdot 103.19}{103.19} (+) \\ Y &= -11.51 \end{aligned}$$

算出点	1
-----	---



$$\begin{aligned} X_2 &= -1942.1544 \\ X_1 &= -1977.1015 \\ \Delta X &= 0.1116 \end{aligned}$$

$$\begin{aligned} \alpha &= 159^\circ - 54' - 10'' \\ \beta &= 176^\circ - 58' - 14'' \\ \beta - \alpha &= 19^\circ - 4' - 4'' \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{3} &= 0.1116 \cdot 103.19 \\ \Delta X \times \textcircled{4} &= 0.1116 \cdot 103.19 \\ E &= 11.51 \end{aligned}$$

$$S_1 = \left| \frac{E}{\textcircled{5}} \right| = 12.1161$$

$$\begin{aligned} S_1 \times \textcircled{1} &= \ominus \frac{11.51 \cdot 103.19}{103.19} \\ X_1 &= - \frac{11.51 \cdot 103.19}{103.19} (+) \\ X &= -11.51 \end{aligned}$$

$$\begin{aligned} S_1 \times \textcircled{2} &= \frac{11.51 \cdot 103.19}{103.19} \\ Y_1 &= - \frac{11.51 \cdot 103.19}{103.19} (+) \\ Y &= -11.51 \end{aligned}$$

$$\begin{aligned} Y_2 &= -1997.1015 \\ Y_1 &= -1977.1015 \\ \Delta Y &= 0.1116 \end{aligned}$$

$$\begin{aligned} \text{Cos} \alpha &= 0.1116 \cdot 103.19 \textcircled{1} \\ \text{Sin} \alpha &= 1.116 \cdot 103.19 \textcircled{2} \\ \text{Cos} \beta &= 1.116 \cdot 103.19 \textcircled{3} \\ \text{sin} \beta &= 1.116 \cdot 103.19 \textcircled{4} \\ \text{Sin}(\beta - \alpha) &= -1.116 \cdot 103.19 \textcircled{5} \end{aligned}$$

$$\begin{aligned} \Delta Y \times \textcircled{1} &= -1.116 \cdot 103.19 \\ \Delta X \times \textcircled{2} &= 0.1116 \cdot 103.19 \\ F &= 11.51 \end{aligned}$$

$$S_2 = \left| \frac{F}{\textcircled{5}} \right| = 12.1161$$

$$\begin{aligned} S_2 \times \textcircled{3} &= \frac{11.51 \cdot 103.19}{103.19} \\ X_2 &= - \frac{11.51 \cdot 103.19}{103.19} (+) \\ X &= -11.51 \end{aligned}$$

$$\begin{aligned} S_2 \times \textcircled{4} &= \frac{11.51 \cdot 103.19}{103.19} \\ Y_2 &= - \frac{11.51 \cdot 103.19}{103.19} (+) \\ Y &= -11.51 \end{aligned}$$

面積計算用紙

街廓番号 39	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 179	3	5990.641		78.308	3990.644						
	10	5975.537		15.103	4000.869						
	12	5970.528		20.530	3995.379						
	2	5950.007		20.995	2003.254						
	977 <sup>A</sup>	5940.500		17.997	3773.242						
	258	5970.004		28.138	3971.505						
	257	5970.671		10.127	3973.123						
	256	5983.131		10.174	3969.885						
	970 <sup>B</sup>	5983.845		10.510	3969.621						

控除シタル値

X = 於テ 5900

Y = 於テ 3960

$$\Sigma = 2915 \quad 6015229 \quad 5713279 \quad 628 \quad 965 \quad 652$$

$$2S = 213.971$$

$$S = 1156.986$$

3499917 年 月 日

面積計算用紙

街廓番号 39	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
筆番号 331	5	6006.093		21.651	2025.523						
	9	5990.205		30.829	2035.016						
	10	5975.270		8.578	4021.530						
	11	5980.783		9.511	4018.781						
	12	5983.781		19.073	4021.509						
	2	6001.856		20.916	4018.895						

控除シタル値

X = 於テ

Y = 於テ

$$\Sigma = 1871 \quad 1822545 \quad 5841632 \quad 329 \quad 957 \quad 927$$

$$2S = 674.402$$

$$S = 337.201$$

10200317

年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)						
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-					
筆番号 39	967 <sup>2</sup>	5916.635	-	0	2067.039	-	0									
	968 <sup>2</sup>	5912.282	-	+	2056.528	-	0									
	976 <sup>2</sup>	5980.575	-	+	2067.160	-	0									
	977 <sup>2</sup>	5976.091	-	+	2066.947	-	+	151	649		867	786				
	α600	5975.212	-	+	2065.167	-	+	26	638	1991	158		2139	573		
	α602	5968.137	-	+	2058.509	-	+	91	925	5903	869		4560	664		
	977 <sup>2</sup>	5942.500	-	+	2073.292	-	+	27	004	2849	881			505	953	
	α58	5979.002	-	0	2013.008	-	+		119	8	330				2013	008
	α57	5979.671	-	0	2013.673	-	+	1	180	114	487					2013

控除シタル値

X = 於テ 5900  
y = 於テ 3900

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

印  
年 月 日

面積計算用紙

街廓番号	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)								
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-							
筆番号	α56	5980.131	-	0	2013.665	-	+	2	508	291	125					2013	665	
	970 <sup>2</sup>	5983.845	-	0	2013.373	-	0	28	128		6987	699					2013	373

控除シタル値

X = 於テ \_\_\_\_\_  
y = 於テ \_\_\_\_\_

Σ = 11210 493 18636 687 19609 914 11385 780  
2S = 8226 196 886 196  
S = 4113 097

印  
年 月 日

1843.91 074

面積計算用紙

街廓番号 39	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 34	967 <sup>201</sup>	6016.636	-	⊖ 1,763	2052.033	-	⊖ 18,350			212,669		38,894
	967 <sup>202</sup>	6114.482	-	+ 36.857	2056.128		⊖ 15,127			874,149	957,241	
	976 <sup>201</sup>	5980.575	-	+ 38.991	2067.160		⊖ 8,399			172,909	1426,610	
	976 <sup>202</sup>	5976.091	-	+ 5.261	2064.907		+ 1,993	32,059			193,856	
	0104	5975.314	-	+ 11.877	2065.167		+ 29,080	368,761			417,678	
	1	5964.514	-	⊖ 11.794	2040.867		+ 32,677	137,701				128,165
	8	5987.108	-	⊖ 29.651	2015.290		⊖ 8,449			229,035		72,337
	7	5993.265	-	⊖ 25.611	2029.316		⊖ 9,708			322,937		994,702
	6	6012.719	-	⊖ 27.367	2042.198		⊖ 2,717			143,230		785,031

控除シタル値

X = 於テ 5960

y = 於テ 2030

Σ = 539 5312302 8372985 3851019 079

2S = 1966.306

1966.306

S = 983.153

2974074

印  
日

面積計算用紙

街廓番号 39	NO	Xn	Xn-Xn+1	ΔX+ΔXn+1	Yn	Yn-Yn+1	Δyn+Δyn+1	(1) × (6)		(3) × (4)		
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-	
筆番号 保	6	6012.719	-	+ 12.828	2042.198		⊖ 23,773			777,829	294,756	
	7	5993.265	-	+ 25.611	2029.316		+ 9,708	128,777			750,812	
	8	5987.108	-	⊖ 12.828	2032.490		+ 23,773	168,978				160,222
	5	6006.093	-	⊖ 25.611	2025.593		⊖ 9,708			253,311		141,962

控除シタル値

X = 於テ 5980

y = 於テ 2020

Σ = 297 7551031 1201025 568 302 183

2S = 733.395

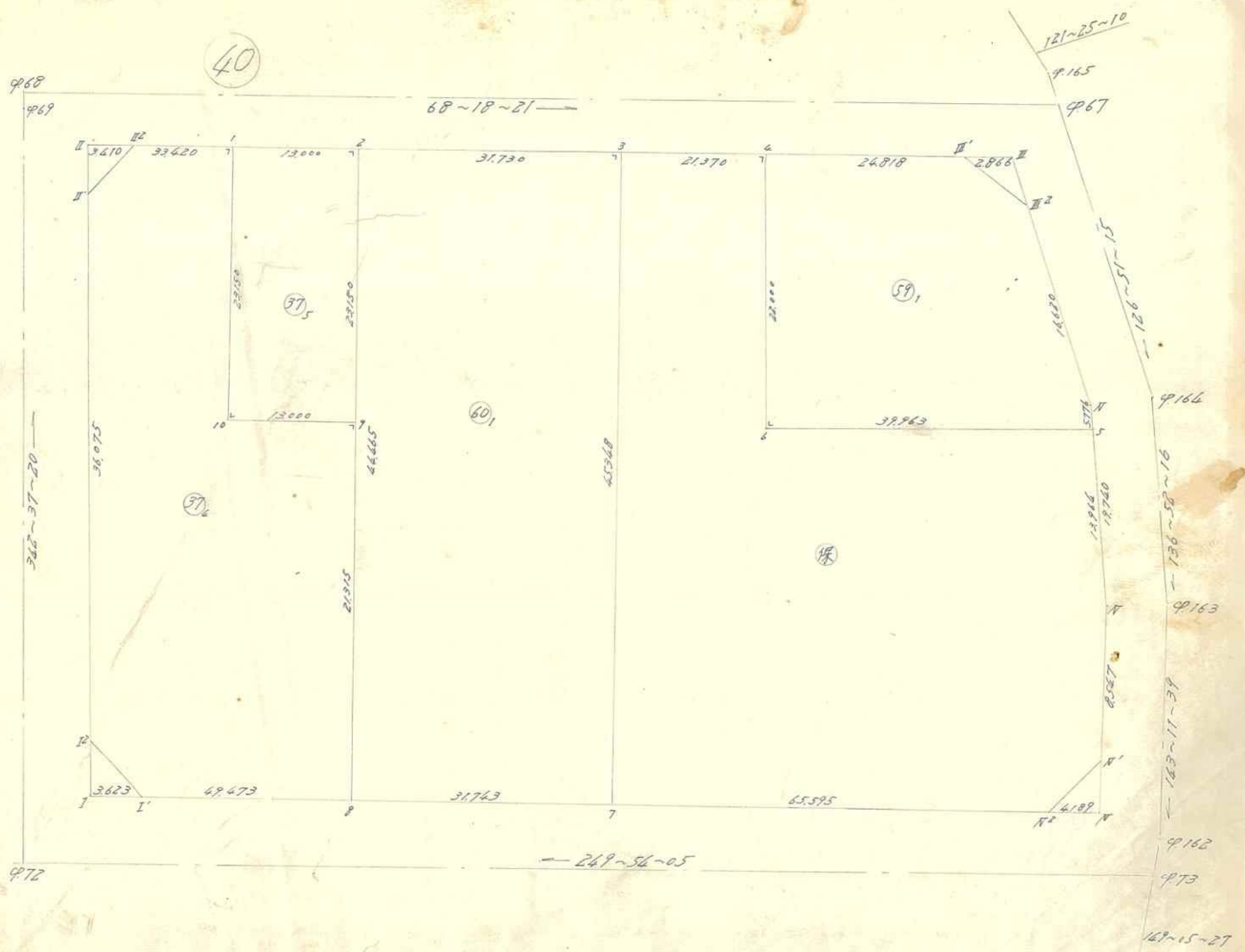
733.395

S = 366.698

1709274

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)	+	-	+	-
40											
筆番号	8	6,001,028	-	+ 36,806	4,133,097	-	+ 38,582	1,968,762		3,058,468	
③76	972 <sup>I</sup>	5,984,027	-	+ 14,788	4,086,636	-	+ 50,965	1,733,506		541,773	
	972 <sup>I2</sup>	5,986,240	-	⊖ 36,642	4,082,152	-	+ 15,258	552,950			1,178,116
	968 <sup>II</sup>	6,020,669	-	⊖ 38,944	4,071,378	-	+ 8,624	609,449			832,545
	968 <sup>II2</sup>	6,025,184	-	⊖ 16,868	4,073,528	-	⊖ 33,203		2,496,334		396,870
	1	6,037,537	-	+ 9,157	4,104,581	-	⊖ 39,611		3,467,428	499,1798	
	10	6,016,027	-	+ 16,704	4,113,139	-	⊖ 20,637		1,362,599	1,054,674	
	9	6,020,833	-	+ 14,999	4,125,218	-	+ 19,958		1,413,685	1,128,195	

控除シタル値

X=於テ 5,950

y=於テ 4,050

$$\bar{x} = \frac{4,864,667}{8} = 608,083.375$$

$$2S = \frac{3,875,379}{8} = 484,422.375$$

$$S = \frac{1,937,689}{8} = 242,211.125$$

586.15<sup>㊦</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
40											
筆番号	9	6,020,833	-	+ 26,316	4,125,218	-	+ 3,521	73,353		663,637	
③75	10	6,016,027	-	⊖ 16,704	4,113,139	-	+ 20,637	330,749			219,474
	1	6,037,537	-	⊖ 26,316	4,104,581	-	⊖ 3,521		132,168		120,554
	2	6,042,343	-	+ 16,704	4,116,660	-	⊖ 20,637		873,832	278,289	

控除シタル値

X=於テ 6,000

y=於テ 4,100

$$\bar{x} = \frac{4,041,102}{8} = 505,137.75$$

$$2S = \frac{601,898}{8} = 75,237.25$$

$$S = \frac{300,949}{8} = 37,618.625$$

91.04<sup>㊦</sup> 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
40											
筆番号	7	6011'936	-	+53'044	4162'906	-	+13'046	155'717			3336'786
(60)	8	6001'028	-	⊖30'407	4133'097	-	+46'246	47'541			1006'386
	2	6042'343	-	⊖53'044	4116'660	-	+13'046		552'407		883'713
	3	6054'072	-	+30'407	4146'143	-	⊖46'246		2500'614	1403'070	

控除シタル値

X=於テ 6000

y=於テ 4100

$$\bar{x} = \frac{203'258}{28} = 7278'921$$

$$2S = 2849'763$$

$$S = 1424'881$$

437.037 年 月 日

面積計算用紙

街廓番号	NO	X <sub>n</sub>	X <sub>n</sub> -X <sub>n+1</sub>	ΔX+ΔX <sub>n+1</sub>	Y <sub>n</sub>	Y <sub>n</sub> -Y <sub>n+1</sub>	Δy <sub>n</sub> +Δy <sub>n+1</sub>	(1)×(6)		(3)×(4)	
		(1)	(2)	(3)	(4)	(5)	(6)	+	-	+	-
40											
筆番号	5	6056'302	-	+18'988	4211'263	-	+33'184	1868'326			1163'262
(59)	6	6041'530	-	⊖5'670	4174'131	-	+45'264	1879'814			136'823
	4	6061'972	-	⊖29'616	4165'999	-	⊖14'929		925'180		473'826
	967	6071'166	-	⊖8'514	4189'060	-	⊖28'017		1993'297		332'557
	967	6070'486	-	+10'628	4194'016	-	⊖18'255		1286'722	467'802	
	9164	6060'518	-	+14'184	4207'315	-	⊖17'247		1043'754	812'956	

控除シタル値

X=於テ 6000

y=於テ 4150

$$\bar{x} = \frac{3748'140}{28} = 133862'0$$

$$2S = 1500'813$$

$$S = 750'407$$

207.007 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)	+	-	+	-
40											
筆番号	973 <sup>ア</sup>	6034.475	-	+ 27.332	4224.507	-	+ 63.025	2172.787		3403.025	
原	7	6011.936	-	0 19.597	4162.906	-	+ 78.364	935.353			1232.769
	3	6054.072	-	0 50.036	4146.143	-	0 3.093		167.245		2308.811
	4	6061.972	-	+ 12.542	4165.999	-	0 27.988		1734.472	827.759	
	6	6041.530	-	+ 5.670	4174.131	-	0 45.264		1879.814	420.323	
	5	6056.302	-	0 4.581	4211.263	-	0 46.679		2628.121		509.696
	9163 <sup>ア</sup>	6046.111	-	+ 17.034	4220.810	-	0 14.668		676.356	2057.878	
	973 <sup>ア</sup>	6039.268	-	+ 11.636	4225.931	-	0 3.697		145.174	1465.333	

控除シタル値

X = 於テ 6000

y = 於テ 4100

$\sum =$  3108.140    7231.182    8174.318    4051.276

$2S =$  4123.042    4123.042

S = 2061.521  
623.61<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											
○											

控除シタル値

X = 於テ

y = 於テ

$\sum =$

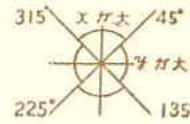
$2S =$

S =

年 月 日

多角点計算用紙

測量No. \_\_\_\_\_



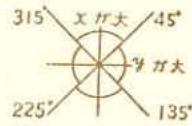
象 限	I	+	↘	+	↘
	II	+	↙	+	↙
	III	-	↙	-	↙
	IV	-	↘	-	↘

測点	観点	内角	修正角量	方位角	辺長	真数		辺のX		辺のY		点の座標		点	
						Sin	CoS	N (+)	S (-)	E (+)	W (-)	X	Y		
	973 <sup>IV</sup>	° 1 "		° 1 "				.	.	.	.	6035.914	4228.441	973 <sup>IV</sup>	
973 <sup>IV</sup>	973 <sup>IV</sup>			249 54 05	4.189	343616	939111	.	.	.	.	6036.475	4226.507	973 <sup>IV</sup>	
973 <sup>IV</sup>	7		}	°	65.595	"	"	.	.	.	.	6011.936	4162.906	7	
7	8	146.811		°	31.743	"	"	.	.	.	.	6001.028	4133.097	8	
8	972 <sup>I</sup>			°	49.473	"	"	.	.	.	.	5986.027	4086.636	972 <sup>I</sup>	
972 <sup>I</sup>	972 <sup>I</sup>			"	3.623	"	"	.	.	.	.	5982.782	4083.234	972 <sup>I</sup>	
972 <sup>I</sup>	972 <sup>I</sup>			342 37 20	3.623	298671	954356	.	.	.	.	5986.240	4082.152	972 <sup>I</sup>	
972 <sup>I</sup>	968 <sup>II</sup>			"	36.075	"	"	.	.	.	.	6020.669	4071.378	968 <sup>II</sup>	
968 <sup>II</sup>	968 <sup>II</sup>			"	3.410	"	"	.	.	.	.	6023.923	4070.360	968 <sup>II</sup>	
968 <sup>II</sup>	968 <sup>II</sup>			68 18 21	3.410	369657	929168	.	.	.	.	6025.184	4073.528	968 <sup>II</sup>	
968 <sup>II</sup>	1		}	°	33.420	"	"	.	.	.	.	6037.537	4104.581	1	
1	2			"	13.000	"	"	.	.	.	.	6042.343	4116.660	2	
2	3	124.338		"	31.730	"	"	.	.	.	.	6054.072	4146.743	3	
3	4			"	21.370	"	"	.	.	.	.	6061.972	4165.999	4	
4	967 <sup>III</sup>			"	24.818	"	"	.	.	.	.	6071.146	4189.060	967 <sup>III</sup>	
967 <sup>III</sup>	967 <sup>III</sup>			"	2.866	"	"	.	.	.	.	6072.205	4191.723	967 <sup>III</sup>	
967 <sup>III</sup>	967 <sup>III</sup>			126 51 15	2.866	599800	800150	.	.	.	.	6070.486	4196.016	967 <sup>III</sup>	
967 <sup>III</sup>	9164 <sup>IV</sup>			"	16.620	"	"	.	.	.	.	6060.518	4207.315	9164 <sup>IV</sup>	
9164 <sup>IV</sup>	5	19.740	}	136 52 16	5.776	683628	729831	.	.	.	.	6056.302	4211.263	5	
5	9163 <sup>IV</sup>			"	13.964	"	"	.	.	.	.	6046.111	4220.810	9163 <sup>IV</sup>	
9163 <sup>IV</sup>	973 <sup>IV</sup>				143 11 39	8.547	599101	800673	.	.	.	.	6039.268	4225.931	973 <sup>IV</sup>
973 <sup>IV</sup>	973 <sup>IV</sup>				"	4.189	"	"	.	.	.	.	6035.914	4228.441	973 <sup>IV</sup>

協和建設測量

多角点計算用紙

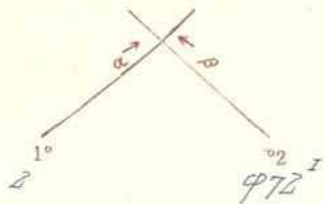
測量No. \_\_\_\_\_



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	
	968 <sup>II</sup>											6023.923	4070.360	968 <sup>II</sup>
968 <sup>II</sup>	2			68 18 21	49.830	369657	929168	18.420		46.300		6042.343	4116.660	2
2	9			158 18 21	23.150	"	"		21.510	8.558		6020.833	4125.218	9
9	10			248 18 21	13.000	"	"		4.806		12.079	6016.027	4113.139	10
10	1			338 18 21	23.150	"	"	21.510			8.558	6037.537	4104.581	1
	2											6042.343	4116.660	2
2	3			68 18 21	31.730	369657	929168	11.729		29.483		6054.072	4146.143	3
3	4				21.370	"	"	7.900		19.856		6061.978	4165.999	4
4	6			158 18 21	22.000	"	"		20.442	8.132		6041.530	4174.131	6

算出点 8



$$\begin{aligned} 472^I X_2 &= -519182.1782 \\ 2 X_1 &= -610423.1343 \\ \Delta X &= -21191.0561 \end{aligned}$$

$$\alpha = 158^\circ - 18' - 21''$$

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

$$\beta - \alpha = 19^\circ - 36' - 4''$$

$$\begin{aligned} Y_2 &= -401813.1343 \\ Y_1 &= -411181.1660 \\ \Delta Y &= -21167.0317 \end{aligned}$$

$$\text{Cos } \alpha = 9.1917101 \text{ ①}$$

$$\text{Sin } \alpha = 7.1917101 \text{ ②}$$

$$\text{Cos } \beta = 7.1917101 \text{ ③}$$

$$\text{Sin } \beta = 7.1917101 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = -0.1917101 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 9171.0561 \\ \Delta X \times \text{④} &= 9171.0561 \\ E &= 144.1466 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +171.0561 \\ \Delta X \times \text{②} &= 9171.0561 \\ F &= 171.0561 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 144.1466$$

$$S_2 = \frac{F}{\text{⑤}} = 171.0561$$

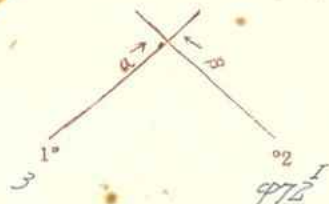
$$\begin{aligned} S_1 \times \text{①} &= 9171.0561 \\ X_1 &= -610423.1343 \\ X &= -610423.1343 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= +171.0561 \\ X_2 &= -519182.1782 \\ X &= -519182.1782 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +171.0561 \\ Y_1 &= -411181.1660 \\ Y &= -411181.1660 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= +171.0561 \\ Y_2 &= -401813.1343 \\ Y &= -401813.1343 \end{aligned}$$

算出点 7



$$\begin{aligned} 472^I X_2 &= -519182.1782 \\ 2 X_1 &= -610423.1343 \\ \Delta X &= -21191.0561 \end{aligned}$$

$$\alpha = 158^\circ - 18' - 21''$$

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

$$\beta - \alpha = 19^\circ - 36' - 4''$$

$$\begin{aligned} Y_2 &= -401813.1343 \\ Y_1 &= -411181.1660 \\ \Delta Y &= -21167.0317 \end{aligned}$$

$$\text{Cos } \alpha = 9.1917101 \text{ ①}$$

$$\text{Sin } \alpha = 7.1917101 \text{ ②}$$

$$\text{Cos } \beta = 7.1917101 \text{ ③}$$

$$\text{Sin } \beta = 7.1917101 \text{ ④}$$

$$\text{Sin}(\beta - \alpha) = -0.1917101 \text{ ⑤}$$

$$\begin{aligned} \Delta Y \times \text{③} &= 9171.0561 \\ \Delta X \times \text{④} &= 9171.0561 \\ E &= 144.1466 \end{aligned}$$

$$\begin{aligned} \Delta Y \times \text{①} &= +171.0561 \\ \Delta X \times \text{②} &= 9171.0561 \\ F &= 171.0561 \end{aligned}$$

$$S_1 = \frac{E}{\text{⑤}} = 144.1466$$

$$S_2 = \frac{F}{\text{⑤}} = 171.0561$$

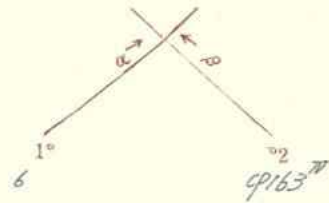
$$\begin{aligned} S_1 \times \text{①} &= 9171.0561 \\ X_1 &= -610423.1343 \\ X &= -610423.1343 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{③} &= +171.0561 \\ X_2 &= -519182.1782 \\ X &= -519182.1782 \end{aligned}$$

$$\begin{aligned} S_1 \times \text{②} &= +171.0561 \\ Y_1 &= -411181.1660 \\ Y &= -411181.1660 \end{aligned}$$

$$\begin{aligned} S_2 \times \text{④} &= +171.0561 \\ Y_2 &= -401813.1343 \\ Y &= -401813.1343 \end{aligned}$$

算出点 5



$49163^{\circ} X_2 = -$  610461018110  
 $X_1 = -$  610461018110  
 $\Delta X = -$  111111111111

$\alpha = 168^{\circ} - 10 - 1''$   
 $\beta = 176^{\circ} - 10 - 1''$   
 $\beta - \alpha = 8^{\circ} - 10 - 1''$

$Y_2 = -$  41741018110  
 $Y_1 = -$  41741018110  
 $\Delta Y = -$  111111111111

$\text{Cos}\alpha = +$  0.923879532515 ①  
 $\text{Sin}\alpha = +$  0.374606593416 ②  
 $\text{Cos}\beta = +$  0.961261655209 ③  
 $\text{sin}\beta = 9$  0.139173100960 ④  
 $\text{Sin}(\beta - \alpha) = -$  0.139173100960 ⑤

$\Delta Y \times \textcircled{3} = +$  111111111111  
 $\Delta X \times \textcircled{4} = -$  111111111111  
 $E =$  111111111111

$S_1 = \left| \frac{E}{\textcircled{5}} \right| =$  111111111111

$S_1 \times \textcircled{1} = +$  111111111111  
 $X_1 = -$  111111111111 (+)  
 $X = -$  111111111111

$S_1 \times \textcircled{2} = +$  111111111111  
 $Y_1 = -$  111111111111 (+)  
 $Y = -$  111111111111

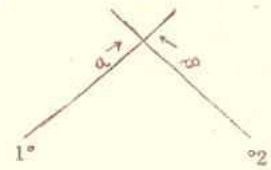
$\Delta Y \times \textcircled{1} = +$  111111111111  
 $\Delta X \times \textcircled{2} = +$  111111111111  
 $F =$  111111111111

$S_2 = \left| \frac{F}{\textcircled{5}} \right| =$  111111111111

$S_2 \times \textcircled{3} = +$  111111111111  
 $X_2 = -$  111111111111 (+)  
 $X = -$  111111111111

$S_2 \times \textcircled{4} = \ominus$  111111111111  
 $Y_2 = -$  111111111111 (+)  
 $Y = -$  111111111111

算出点



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

$\alpha =$  | | | | | | | | | |"  
 $\beta =$  | | | | | | | | | |"  
 $\beta - \alpha =$  | | | | | | | | | |"

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

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

$S_1 \times \textcircled{1} = -$  | | | | | | | | | |  
 $X_1 = -$  | | | | | | | | | | (+)  
 $X = -$  | | | | | | | | | |

$S_1 \times \textcircled{2} = -$  | | | | | | | | | |  
 $Y_1 = -$  | | | | | | | | | | (+)  
 $Y = -$  | | | | | | | | | |

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

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

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

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

$S_2 \times \textcircled{3} = -$  | | | | | | | | | |  
 $X_2 = -$  | | | | | | | | | | (+)  
 $X = -$  | | | | | | | | | |

$S_2 \times \textcircled{4} = -$  | | | | | | | | | |  
 $Y_2 = -$  | | | | | | | | | | (+)  
 $Y = -$  | | | | | | | | | |