

GROUND



DECEMBILS 1005 C

NAPANINTERNA Nahodi oftici P.O. DOX 10372 Nahodi kenya PERATION AGENCY TORYO ILAD ORTO: P.O. DOX 210 STALLKU TORYO JAPAN



REPUBLIC OF KENYA

LAKE BASIN DEVELOPMENT AUTHORITY

SONDU RIVER MULTIPURPOSE

DEVELOPMENT PROJECT

DATA BOOK - 1

GROUND SURVEY

DECEMBER, 1985

JAPAN INTERNATIONAL COOPERATION AGENCY

NAIROBI OFFICE P. O. BOX 50572 NAIROBI KENYA TOKYO HEAD OFFICE P. O. BOX 216 SHINJUKU TOKYO JAPAN

LIST OF REPORTS

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- Volume III. PRE-FEASIBILITY REPORT ON KANO PLAIN IRRIGATION PROJECT
- Volume IV. SUPPORTING STUDY REPORT FOR HYDROPOWER PLAN
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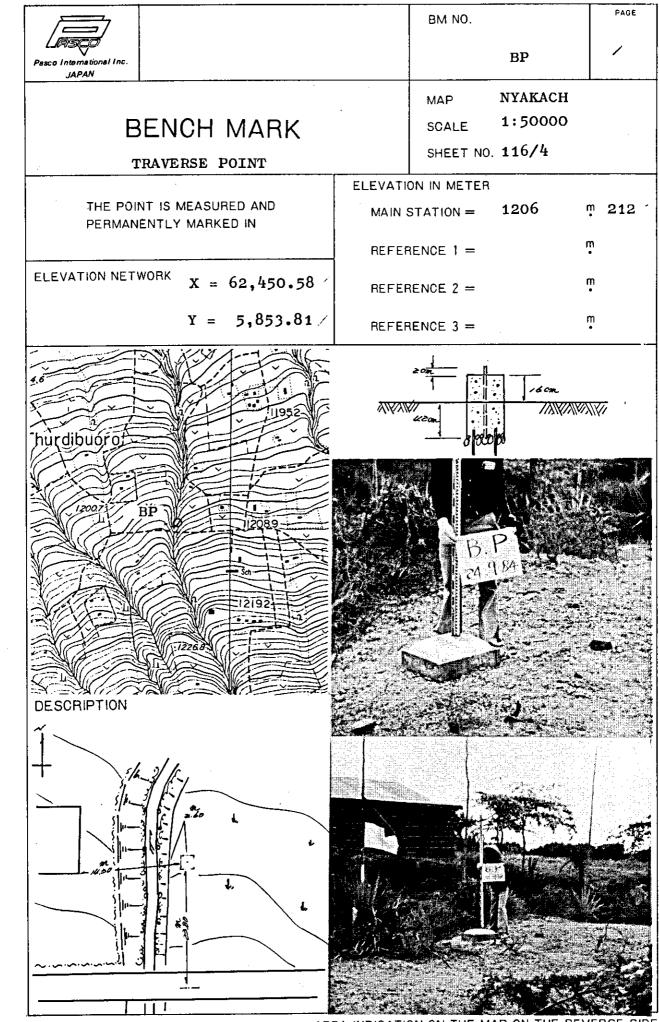
Horizontal and Vertical Angle Observations

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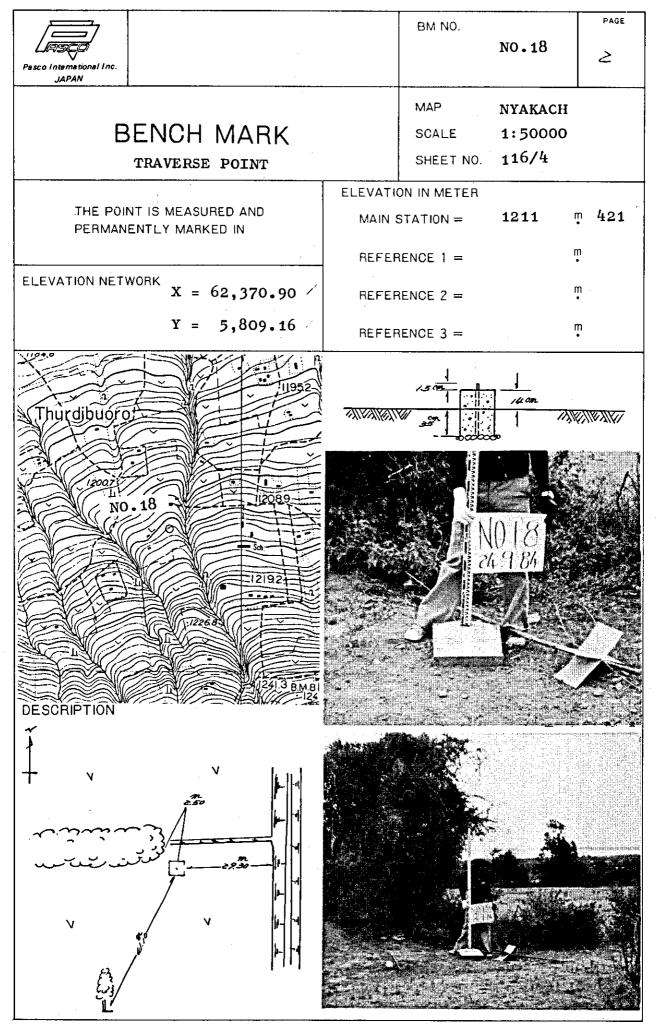
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BENCH MARK

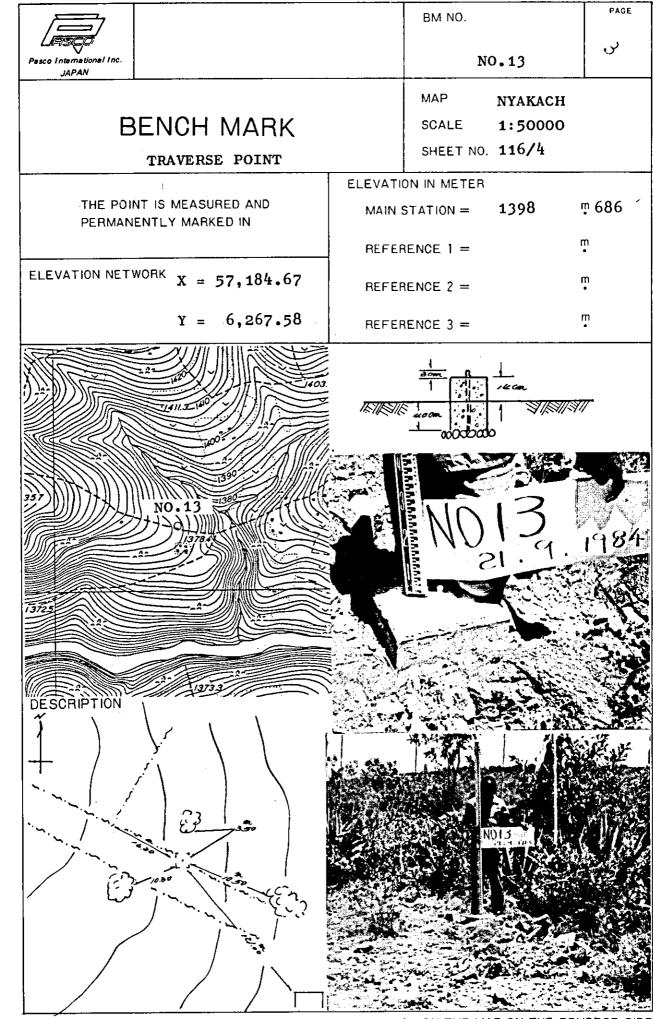
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	ĸ	427.92	5	0.02	0	¹ /21,000
	T - 2	572.49	7	0.02	- 1 ^{cm}	¹ /26,000
	R	1332.69	12	0.11	- 8 ^{cm}	¹ /12,000
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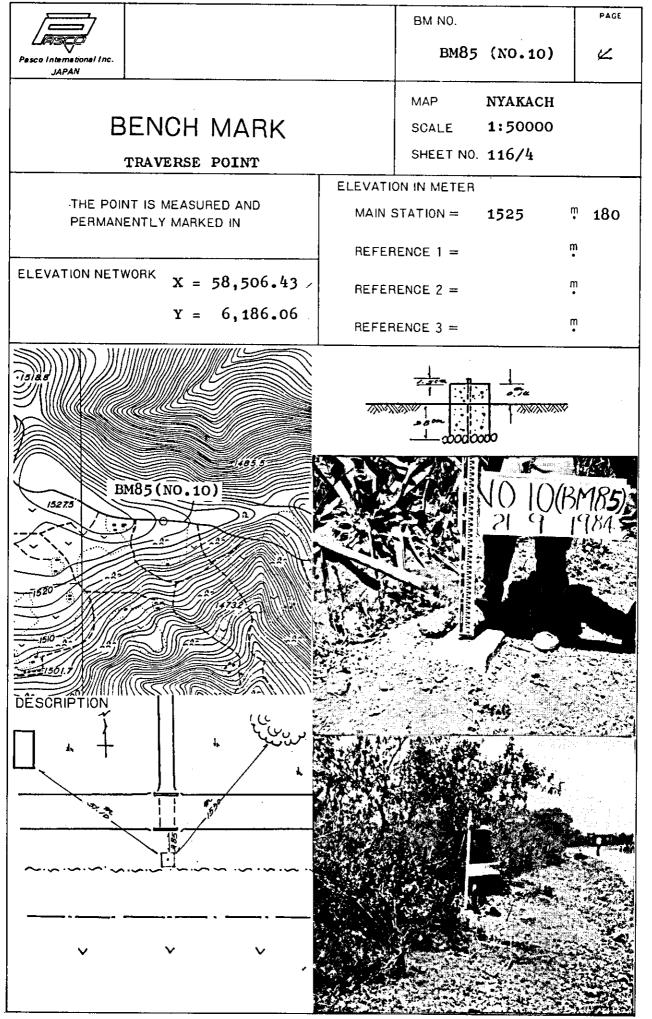
AREA INDICATION ON THE MAP ON THE REVERSE SIDE



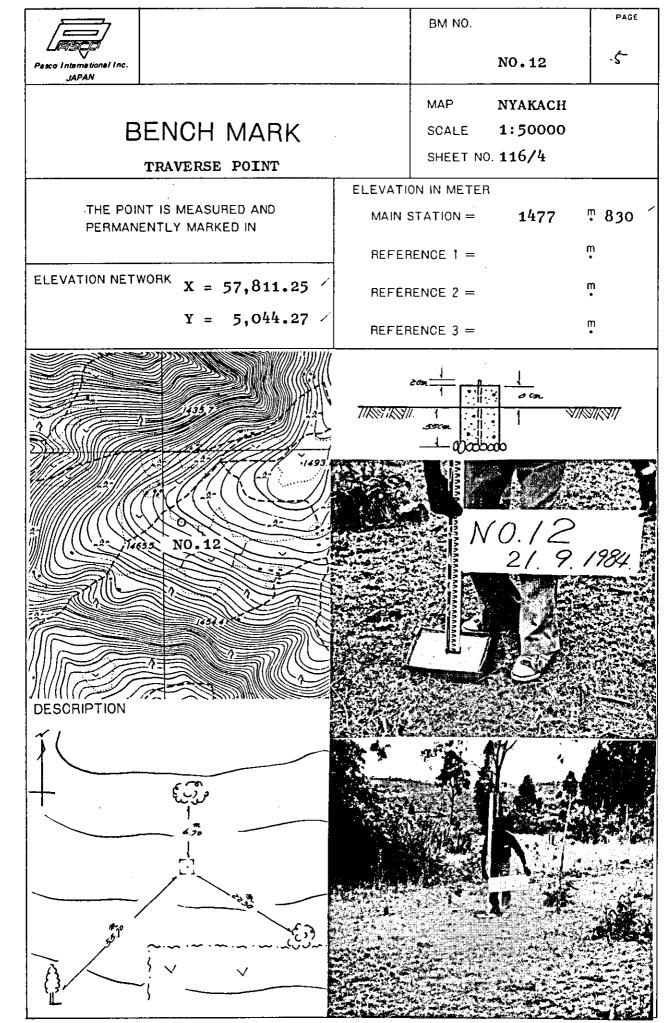
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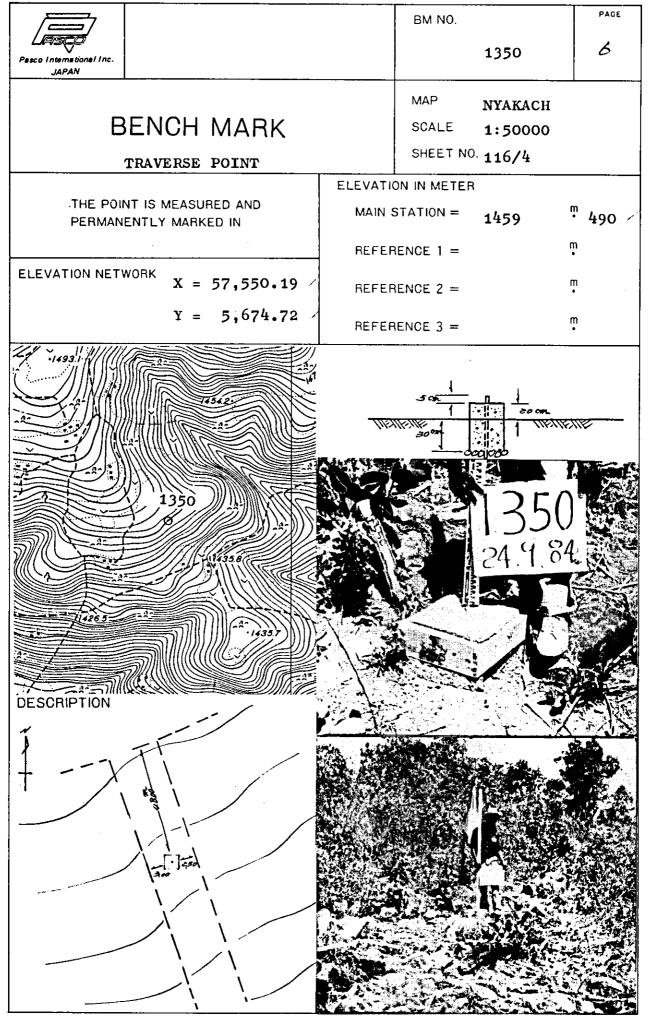
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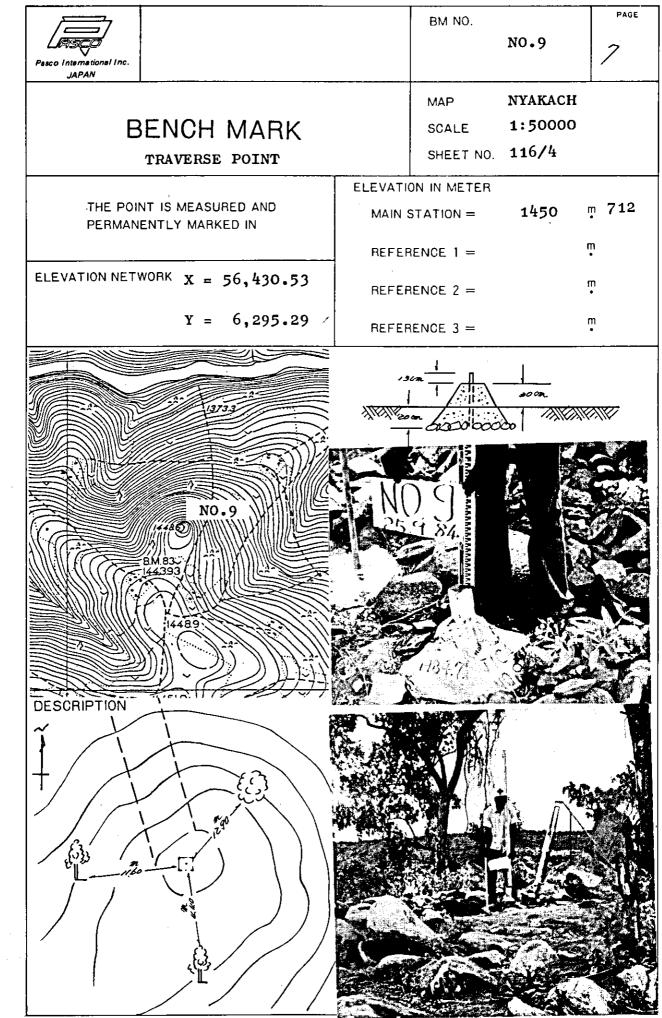
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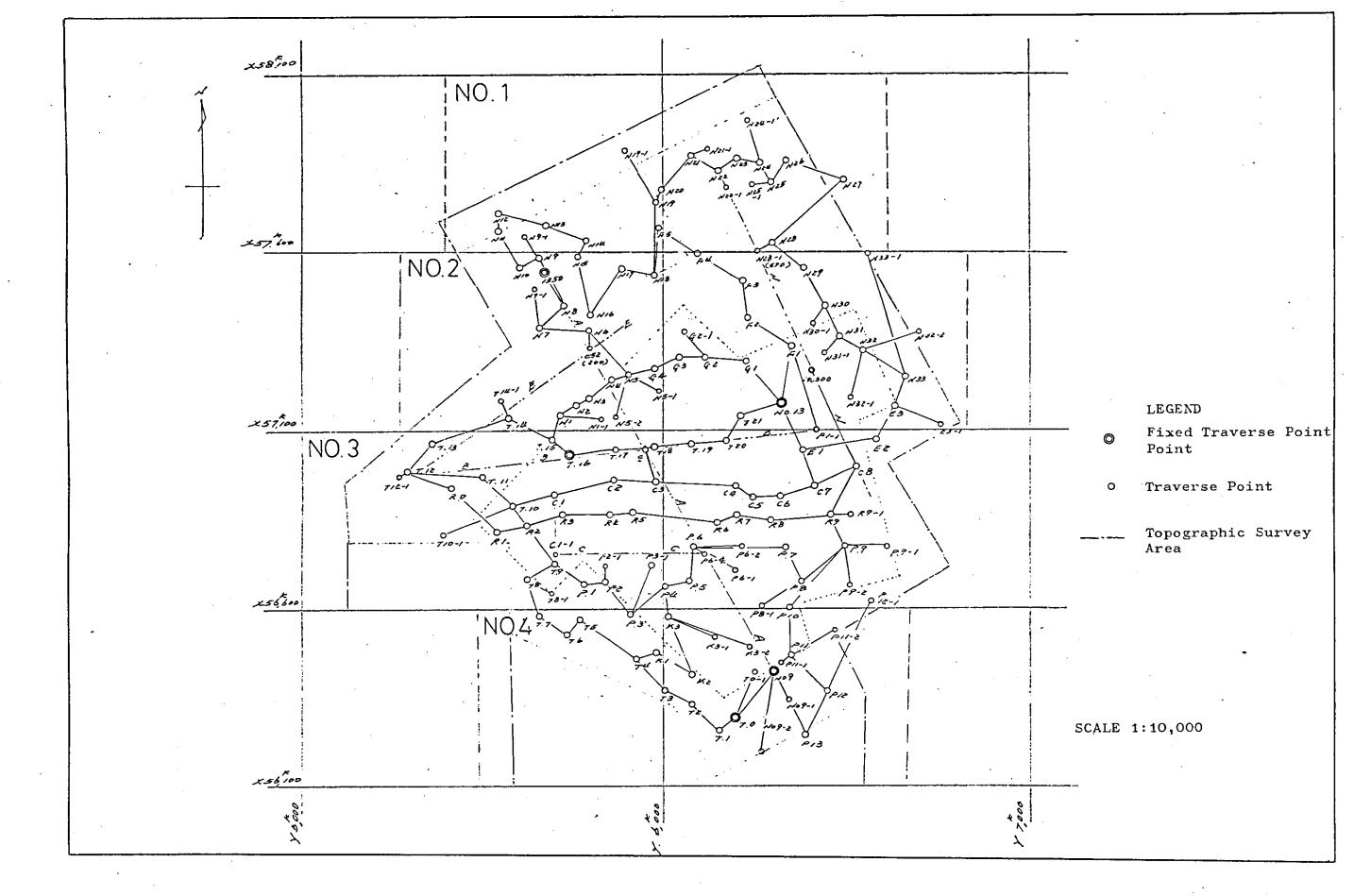


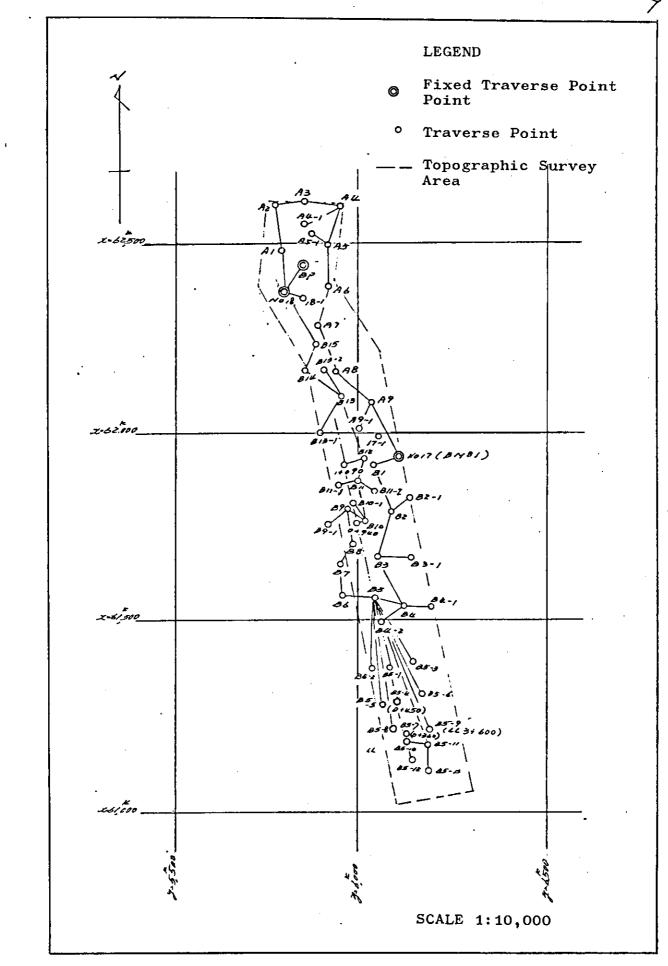
AREA INDICATION ON THE MAP ON THE REVERSE SIDE



AREA INDICATION ON THE MAP ON THE REVERSE SIDE

TRAVERSE NETWORK





TABULATION OF BENCH MARK

OF BENCH-MARK
DIFFERENCE OBSERVED CORR FOR ADJUSTED REMARKS
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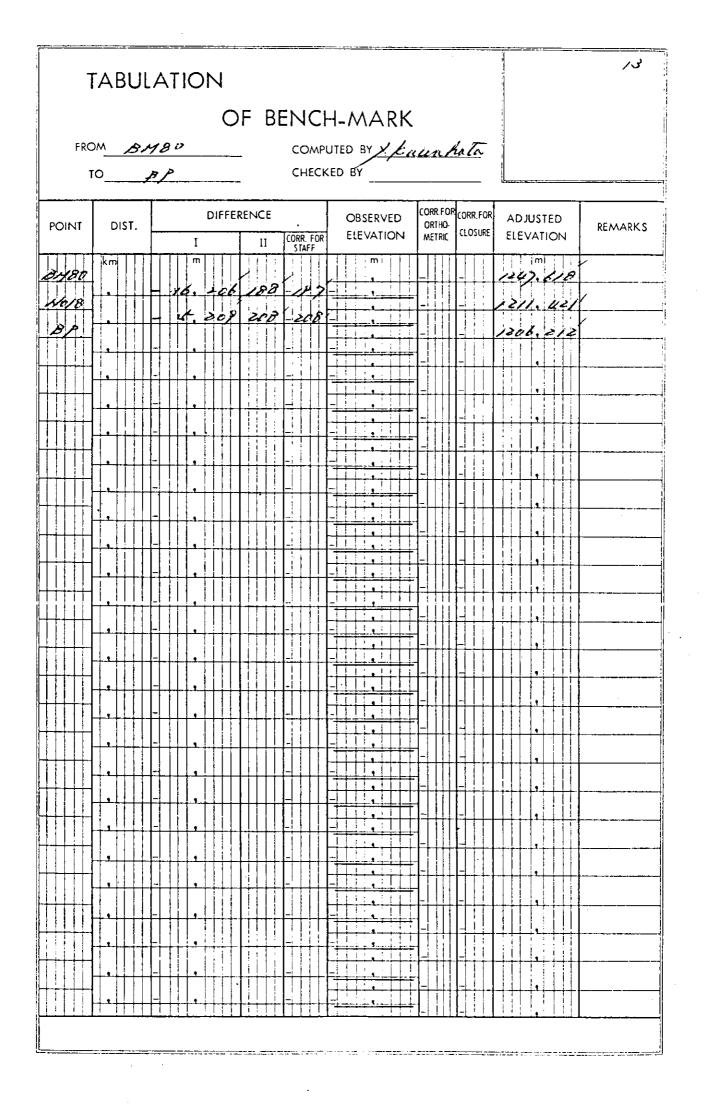
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TRAVERSE COMPUTATION

TRAVERSE COMPUTATION

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ZB	0/00	مرر رج OR رج ف	56 450.46	6 295.13	EXY
180(12-1) B.TA	106159104	Accorney	56 630 50	8 295, 29	ΒXΥ
d.E.TA		0.1746 1	- 1 12	- 16	dE
ETA		0.1746 1 2909.19 16,000			$\frac{de}{n}$
18	- 12114				

COMPUTATION TRAVERSE

Line N	<u>-/ TRAVERS</u>	E COMPUTA	TION	<u>م</u>	21
. NO	β	≪ & S	×	Y	NO
7.0	1. 5 . J. 1.	(11 26 35)	56 630,50	6 285 129	NOP
NOP	- 1 1.2	758,65		· · · · · · · · · · · · · · · · · · ·	
	136 127112	357, 53, 47			
	322144142		57 184,6714	6,267 ,5292	
NOIS	2	184.86	. 0	/	
	322 144:40	140,38,27	57 186.67	6267 .58	NOIS
1	821551505		57:041,7403	6,384 ,8237	
E1	- 1 2	، کان الا	/	~	
	82:55:505	1631 0/ 123	57041.73	6381 ,80	E1.
	82149100		56 952 ,4487	6.412 ,0836	
67	- 1 12	127.02	- : 2	. 4	
	82 48 58.	65150,21	56 952 , 63	6412,04	c7'
i	300.28 24		57 004 ,4379	6527 ,9757	-
<u> 28</u>	2	224,93 1	2	- · · · · · · · · · · · · · · · · · · ·	
	300 28:22	186: 18:43		6,427 ,94	C8 .
	211115155	· .	56 780 ,8714	6 503 ,2475	
<u>94</u>		217.72'	2	6	
	311.16 152	217135.35	58,280 ,85,	6503 .19	1991
	8 155153		56: 608 ,3580	1 A	
P10	2	136.31	- I		
	152 1 221 4	189157,39		6370 ,36	pio
	128 152160		56 476 ,0726	6.347 ,1953	
211	2	, 143 .71	1	— · . 8	
<u>~</u>	128 152.47	138,50,26	56 476,000	6347 .12	11911
	263	-	56 367 ,8760	6441 ,7790	
P12	511	125.44			
<u></u>	2/13/135/15/	202, 2.6, 17	56 367 ,8%	6441.63	pia
	308 14/13K	· · · · · · · · · · · · · · · · · · ·	56 251 ,9328	6393 ,9006	
41,44	- ' ' 2	· 20K.00 1	(K	11	•
	.308 141.32	331.07.49.	. 9,8. 125 /22 /	ر جرم، نی جربی کھ	21,0
	701-18148		56 430 . 5796	6 2 95 , 405	-
169	- 1.12		~	- : 12	
70	30'18'46	1221126135	56 630 · V3	6294,20	NOF
Zβ	2160 1 0125	2:210,00	56 430 . 43	ac , 20 ac	EXY
180(12-1) B.TA	محد ا م 180 م - کاد کان ا / ل		56 430 53	6295,41	вхү
d.E.TA	221,26,58	0.120 1	- 1 . +	- , 12	dE
ETA	22/12605	2210.00 18,000	0.005	0.0/2	de n
18	لريم (+		<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>		

P-2

TRAVERSE COMPUTATION

<u>55 9</u>

	IRAVER:				
ND	β	≪ & S	x	Y	ND
78	260.7.1	(62 08 3K)	56 729 38 1	5,707 157	79
Z2.	+ 1 1.3	98.23	ł		
	2401714	122, 15, 38	· · ·	1	
	14/136152	1	56 676 .9477	5.790 .6361	
<u>P1</u>	+ 1 12	61.05	· · · · ·	. 0	
	141 36.54	831 52132	56 676 pt.	· + 7P0.66	. 19
	247124118	r .	56 683 ,4610	<u>585/ 3377</u>	
<u></u>	+ 1 3	104.81	,		
	247 24121	15/1 16:53	56 683 .46.	5851 33	1 59
	251121		56 591 ,5437	5901 .6998	
<u>p3</u>	+ 12	128.16	· · · · · · · · · · · · · · · · · · ·	/	
	18:5126	50,08,17	56 591,54	5-201.62	ت درهر
	218135-7		56 673 ,6865	6000 0742	
PU	<u>بر، ۱ +</u>	67.881	· · ·	/	, ,
	218:25.10	88: 23, 27	56 67 6p.	6000.06	14
	96112150		56 675 ,2004	6068 ,0474	
AF	+ 1 3	100:46	· · · · · · · · · · · · · · · · · · ·	- 12	
	20 · 12 · 12	4156,20	56 675,20	6068.03.1	125.
	2661 0128	-	56 175 ,2814	6076 .6963	
<u>P6</u>	+ 1 12	261.07 1		2	
	26610130	881 56,50	95, 275, 28	6076.68	<u> </u>
	259:56: 3		56.780,0841	6337 ,7222	
P2	نۍ ۱ ۱ 🕂	107,000 1	·	2	
	25918616	168, 52,56	56 780 .08	6337.70	P7
	62,53,26		56 674 ,7684	6358,4183	
28	+ 1 2	178.50 1			, ·
	66100128	53,46,24	56 676.72	qu, 82,28	<u>P</u> B
	61150150		56 780 ,8495	6503,2183	
12	+ ' ' ' ' '	<u>/t</u>			' P 2'
	מן ישעי בעו	6.18.43	58 780 .8F .	6600 170	<u> </u>
	<u> </u>		· · · · · · · · · · · · · · · · · · ·	1	
<u> </u>			i	1	
ZA	1744 1 9 43	ا			EXY
2 P 180(n-1)	-1620 1 1	108,60	28.085	55,4028	-BXY
B.TA	2421 8134		55 780.851		dE
LE.TA E.TA	6.18.17	0.03 /	<u>+</u> 0	t : , v	dE_
1E	- 126	-//		<u> </u>	n

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TRAVERSE COMPUTATION

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ND	β	× & 5	x	¥	NO
711	122.47. 1	(128 57 38)	st 888 . 71	5.60K.62	
710	- 1 17/		1	1	
	122 146150	71,44,29		<u> </u>	T10.
	186111.20	ł	56 924 ,7115-	- 5'713,1367.	
01	- 1 11	159.21	+ , 2	+ /	
	186 111.9	77, 55,38 -	56 924 ,73	5713.15	c/~
	187118140	·	56 958 ,0109	- 5868 8254	-
<u> </u>	- • • //	124,14 1	+., 4	+ ,2	
	187-18-29	251 14,07.	56 958 .05	5868,84	CZ
	188 127166		56 968 , 3225	- 5992,5364	-
<u>C3</u>	- • • //	205.68 1	+ .6	+ .4	- ار
	188 27 35	931 41,42.	- 56 968 ,38 -	5 992 ,58 -	63
	2034 125 52		56 955 ,0674	- 6197, 7882,	
<u>cu</u>	- 1 ./2	49.75 1	f 87	+ ,5	-
	203125140		56 955 . 15 -	6197 ,84 -	c4
	1516 18116		56: 932 ,3864,	- 6242,0679.	-
<u>c</u> <u>s</u>	- 1 1/1	86,88	+ 10	+	
	154.18.3	1	56: 932,49	6242 .13	- 05
	16314/158		56 930 2277	- 6328,9311.	
<i>C</i> 6	- 1 - 1/1	85.911	+ 12	+ ; , 2	
	163.41.47		56 930 ,35 -	6329,00	- 6 -
	87:54:22		56 952,2890		- · ·
<u>C7</u>			+ , 14	+ . 8	
		36311,23	56 952,43	6412 .04 ,	c 7
-	4 1				
E/	1 1	•		: •	
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Σß	12941 5.15		56 952,43	6412,04	EXY
-80(n-1) B.TA	12601 1	/	56 952 . 29	6411 96	ВХY
d.E.TA	جی اچے الو کان	0.161 1	+ 14	- : 8	dE
ETA	- 223 - 123	825.85 5,000			den
18	+ 1,28				

P 24

X TRAVERSE COMPONITION						
NO	β	ح 2 S	×	Y	NO	
75	283.15.48	(322 27 13	55 45P. P3	· 62, 507 26 1	74	
74	1	، هربی ۱٫۰		• 1 0		
	283125-140	65, 43, 2.		3		
	235-142128	ζ	56 481,0636	5984,1033	-	
<u>K1</u>	+ 1 1/	111.60	X+ , 0	, 0		
			56 481 ,06	5984 .10 -	- K1	
	56142154	V .	1	6079,3339	r	
<u>K2</u>	+ 1 0	189.61	(+ , /			
	36.42.54	3381 8,25	- 56422.39-	6079,33	K2	
	12612132		56 598 ,8536	6008,7354	-	
<u>K3</u>	+ 1 /	75.321	+ . /	. 0		
i	1841/2130	353,22,58.	56 5 98 , 86 -		' K3 '	
	56145-18.	/	56 673 . 6718	\$220,0006	ŗ	
PU	+ 1 ./	I	+ , 2	, 0		
	56145119	2301 8117	56 673 161	6 000 106	pe	
	<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	I		
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Z B ,80(n-1)	<u> 807 1 41.00</u> - 720 1 1	427,92	56 673 . 69	6000.06	EXY	
B.TA	142 1 27 131		56 673 .67	6000.06	ВХҮ	
d.E.TA	21 8 1025	0.02 = 1	+ 0,02	0	d E	
ETA DE	- "1 "1 4	427.92 21,000		· · · · ·	<u>de</u> n	
<u>لم</u> ــــــــــــــــــــــــــــــــــــ						

Line No. T - 2

ND	β	0 8 S	x	Y	NO
T 15	113. 28. 62	(13/2 30 3)	57 03P.06	5746 .31	715
716		135.701			
10	/ ١٩٤١ ٢٠٠٠			1	
	1751461 6		57 043 ,8326	5882,3260	
717	+ 1 1 9	1	, 0	. 0	
	125-146-15		57 043 ,83 -	5882 ,33 ~	717
	-7PINt158	-	57 052 ,9980,		
718	±	111.78 1	(+	. 0	
	178.3617	831 21,26	- 57 053 .01	5966 ,09 -	718
	18/13/12	<u> </u>	57 065 ,9286	6077 .1156-	-
<u>719</u>	+ 1/0	93.121	(+ .)	+ ./	
	18/1 3/1 22	84156,48.	57065,94	6077 ,13 /	TIP
	134,36 0		57 074 ,1309-	6/69 ,8737-	
720	+ 1 . 2		1 ,2	+ ,/	
	A 1 8 20 1 20 1 20 1 20 1 20 1 20 1 20 1	39,32,57	57 074 , 15 ,		
.	136138126		57 140 ,7598.	6224,8944	
721	+ 1 + 2	61 122 1	_	+ ./	
	18K188186	441 11 ,32		6224,90	
	6 15416/12		57 184 , 6549		-
NOB	+ 1 /	1	+ ,2		
i		1771 53 147	57 134 167'	6 267 .58	1013
	i 1	· · · · · · · · · · · · · · · · · · ·)	•	
102	J 1	t	н		-
		t <u>ı</u>			
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zβ	1303 122.00	5.72 .49	57 184 . 67	6267,58	EXY
	-12601 1		57 184 65	6267 57	ВХY
B.TA d.E.TA	12210000	0.022 1	+ 0 02	+ 0,0/	dE
ETA	177144147	572.49 26.000			de
18	- 114	[<u></u>	<u> </u>	n

COMPUTATION 6د <u>P</u> TRAVERSE ß NO X 8 S Х Y NO At 0 v8 775,2P 6 حر 1 56 20 5 076 168 . . ı . . . ` , • Ŧ. t . . ŧ. . < 118.4154 56711.8990 ÷ <u>P6-1</u> I. 132 . 01 1 ŧ \$ 6192.4739 293 145 3K P6-1 . . 1 I. 1 89.3340 ŧ -56776.3807 P6-2 1 6219.0758 1 142140 ī ६-४९ 266-37-20 L ŧ . . P7 268 56 50 1 . 95,4807 PS-E 29.66 56771 7771 . 1 6105.1312 لمے۔ برحو 6/1/7 1 2 1 ł. . t. I. ; 1 1 ŧ ı. 17 160 52 56 6 358,39-وحر I ŧ 56 674 177 , ŧ I 1 1 ۱ I 1 1 ł I. 233, 1352 į 56603.1351 <u> 18-1</u> ŧ 111, 32 ł ١ J 6269.2163 Ì 244 120150 e8-1 1 1 . ; 1 ı : 1 T ٠, 1 ŧ. 1 69 56 730, 25 ح هر <u>هر / ا</u> 53 46 24 6 503 ۱ t 1 ŧ ı <u>P9</u> ŧ . Ì ı ı • i I 1 97.4452 56766,8362 ł 100. pc . . 1 6606.1910 <u>ا - 99</u> ļ 223 48128 ŧ. • ŀ ŧ 174.0404 į 56683.7527 6513.2792 <u>د-حرور</u> 87.62. ı. 1 1 i 2-20 300 117.60 ŧ 25 z p 1 ļ EXY . ٠ . 180(n-1) ł 1 : ΒXΥ . BTA ł - | d E d.E.TA . *'* ÷ . 1 ETA I 1 de n 18 ٦٢. ı.

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TRAVERSE COMPUTATION

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ND	β	ح 2 S	×		Ŷ	NO
P10	· · · · · ·	مرد جه مرجر	58 675.	03 /	6 347 12	1 / 11
<u> 11.</u>	J I.	ļ,				
	i i	1			· · · · · · · · · · · · · · · · · · ·	_
	<u> </u>		: 	1 230.	0919	
<u>P11-1</u>	I I	38.682	:	56451. 6317.	2460]
	04.11.055	1 1	·		·	<i></i>
	<u> </u>	· .		6.2.	4445	
<u>P11-2</u>	<u>і і</u>	139175-1		56540. 6471.	0269 3554	_
	52.67.6	1 1		·	I	P11-2
	+ I				٩	_
	<u> </u>	,	;			
L	i I	1 1		<u> </u>	· · · · ·	
11	<u> </u>	138 50 26	58 367	BE	6441,88	\$ 1912
<u>p12</u>	1 1	•				·
	F	1 1	I	•	: 1	
	t 4		, <u>,,,,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,		f	
P12-1	L 1	271.77		23. 56605.	5006 9133	
	69.19.60	1 1		6572.	7516	P/2-1
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	a I		·	-	<u>!</u>	
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70	L 1	41 26 25	56,450	~~~ <	8 2R5 , 28	10p
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	22,19,51 9,85				: 	409-1
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-80(n-1) B.TA	s s				:	ΒXΥ .
d.E.TA	, ,			,	······································	dE
ETA	ê 6.				•	de n
DE.	<u>1</u> 1	L		·		

Line No. _____

TRAVERSE COMPUTATION

<u>P 28</u>

<u>. </u>								
ND	β	٩٤5		х			1	NO
77		(346.0151)	<u>ب (</u>	6 689	. 4.54 -	اللاج رى	· مرمر :	78
78	307177140	82,57	<u> </u>		113 - 56656	. 1937 . 7541		
78-/	F 1	<u> </u>	/	•	5707	.8107/		18-1
79	<u> </u>	(327. 09 38	<u>v. [</u>	<u>6 888</u>		5'604	,62	7-10
<u>T10</u>	102110125	210,66 '	1		56814	.2303 ~ .7365 ~	1	
T10-1	<u> </u>	1 1	<u>/</u>		1	.4501 ~	<u> </u>	710-1
711	1	(279, 5×52)	\$20 	\$ 994	.	1	<u> </u>	712
712	- 12 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	127.78 1	1		56944	.2051 /	<u> </u>]
712-1	· · ·		/	e	5424	.7871/		712-1
		(223.00,47)			<u> </u>		· · · ·	712
<u>T12</u>	<u>مرر ای اجرحر</u>	25.82	ſ		56982.	.3906/ .8183/	· · · · · · · · · · · · · · · · · · ·	
712-2	l I /	1 1	/	- <u> </u>	·	.5359,	<u> </u>	712-2
	·····	(23 26 28)	<u>, </u>	7 137		ره کې کې	1.72 '	716
<u>7/4</u> 7/4-1	271010	61:47 /	<u>.</u>		· 57190	.2723 / .6954 /	1	
710			/		•	.3620	I	714-1
		(71 41 2P	55	9211		<u>، 241</u> 9 م ، 2419	م سلمام ا	121
<u>c/</u>	ہ کا اوج ک	166 199 1			56757	.8871/ .1418/	t	
C1-1 C2			/		i	· · · · · · · · · · · · · · · · · · ·		61-1
		1 (at 14 07.	<u> </u>	<u>5 958</u>		<u>نے مرکز می</u> 24221	· 8	63
<u> </u>	681101N	192,91 1			57051,	4603/ 9875/		
c7.		(65 50 2/	/	· · · · ·	—i			63-1
	دی، جرب ، جرح	- (BS- 50 2/ - 65 195	ري	7004	·	<u>ر چی کی ۔</u> ر 2914 ر	ند مر ا	<i>c8</i>
<u>28</u> -201 200	1 1	2/1,05			57269.	7650 ——- 9338	·	وہ پیونے
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Z B 180(n-1)	<i>د</i> ر ، ، ، ،	· 27		1				EXY
180(11-1) B.TA		ACCURACY					_,	BXY
d.E.TA	······································		-				,	d E
EIA DE						<u> </u>	,	den
<u> </u>	·							

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TRAVERSE COMPUTATION

9 28

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NO	β	ح 8 S	. X		Y	ND
70	• • •	(4/2635,	36 1130	53	6225.	20 / 109
109	28, 9, 2, 19, 142	P1,716	<u> </u>	·		
NO8-1	<u> </u>	150, 58,27	56 350	361	، هرسی ک	B 11. 109-1
7.0	<u> </u>				و ا	
	همی ۱۸۷ افزیدی	، چے ک، بی بوجے			4	
NOP-2	· · · ·	184,48,00	54 1/27	. au .	<u> </u>	71 107-2
	1 I	,	<u> </u>			
·		1		,	· · · · · · · · · · · · · · · · · · ·	
	I i	1 1				
1.9		(22/2635)	200 27	. 47	6 182 .	V2 7.0
70	JUL5137106	140.2401				
70-1	+ +	27104.11-	1 56 427	. 45-1	6 246,	14 / 70-1
K2 1	1	(wug 08 -4	56 578	. 86 1	6000,	261 K3
KJ	هرك 14/4 لم/ حرب	148,266,		119.	5314	
163-1	· · ·	L I		· 56524. 6137.	9798 2877	123-1
K2	1 1	/		. 1		123
	317126146	م کا ۲ اعربی	/	115.3	3511	
K3-2	······································			56495.1 6224.1	3385	5-54
11	1 1	ديد في يوه	56 683	. 46 1	5-25-1	
59	من اجر ا نور	47.7411	/	337.1	102 /	
P2-1	· · ·	1 1		56727.4 、5852.8		29
_ رور	1 1	(15-1 16 553	ا ا هري کاي	SAR 1	5-801.	1
יצת	5161 0150	143,745	/	25. 56721.	1743	
	1 1			5963.	1098	1-20-1
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180(n-1) B.TA	1 1					вхү
d.E.TA		ACCURACY	••••••••••••••••••••••••••••••••••••••	<u> </u>	<u> </u>	dE
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COMPUTATION TRAVERSE

		E COMPUTA	TION	<u> </u>	00
ND	β	٢٤5	. X	Y	NO
7.11	14-1-1-1-1-1	(277 54 52)	56 PPK 68	(x vo) 147	712
TR	+ 1 1	127.78		,i	
	15-1261 3	1 1 1	- 1	l	
	2111 9119		56944,0376	5424.7861	
20	+ 1 16	150.00	+ . /	/	
	21119.25		56 944.051	5-11212.78	RO
	118137118		56821,1058	5512,4545	
R1	+ 1 1 5	118,82	+ . 2	- /	
	71912125	84.0745	56 821 . 13	5512,44	RI
	168.171.04		56832,7460	5625.6576	
<u>R2</u>	+ 16	93,78	+ . 2	2	
	1881171 40	72,2525	56832.77	5625.64 1	RZ
	200 18 2		56861,0654	5715,0595	
RU	+ 1 . 6	194. 73 1	يى ، - +	- , 2	
	200 18 8	92.4333	56861.10	5715.061	لو چې ا
	167118.40		56854.6530	5849,6371	
RE	+ 1 16	64.991	+ . Ľ	ى	
	167-18146	ED. 0219	56 854 ,70	5-849.61	RU
	1861 16122		56865,9003	5913.6473	
RF	+ 1 16	231.81	+ , 5	J	
	196-16-28	\$6.1847	56865195	158, 8182	P5-
	150:30:27		56840,4103	6144,0516	
Rb	+ 1 16	52.94	+ . 6		,
	لوبي اح مي احتكم	66.4920	\$6840,47	6144.01	Rb
	210124100		13861,2506	6192,7279	
<u>2</u>	+ 1 16	87.85	+ . 6		,
	210 '26' 6	97,1326	56861.31	6192.691	<i>P</i> 7
	1671 1.42		56843,9337	6289.9004	
<u>8 </u>	<u> </u>	166.612	+		
	167 1 48	84,1514	56849.00	628,9,8,41	R8
	24612812		56865,6178	6455.7031	
<u>R9</u>	6	- 87.27		- , 5	
	266'29'8	150,4422	56865.70 1	6455.65-1	29
Z B 180(n-1)	<u></u>	2,5° 1,3,2,6,P	•		EXY
180(17-1) B.TA		ACCURACY		· · · · · ·	BXY
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TRAVERSE

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0.0	26312100	233, 46, 24	56. 780 . 85	8 503 . 18	100
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Z B 30(17-1)	2115 150.20	- 1 5 5 6 P	\$\$ 780.76	6 503,25	EXY
BTA	57154152	/	56,080.76 56,080.35	6 503 19	ВХҮ
d.E.TA			- I.P	+ . 6	dE
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×8	182 . 1. 42	(84 1514)	58 865 .70	6 455 .65	29
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ND	β	~ & S	x	Ŷ	סא
714	81.40.40	(116 28 02)	\$7 083,46	\$ 701.51	725
TS	110	65.45			
	1 81.40.40	18.0842	• 1	1	
	220 158 126	1	57145,6552	5721,8926	
~1	+ 1 1/	56.84		1	
	V220158.27	59.0709	57 145.66	5721.87.	11
	185-146,56		57174.8286	5770.6747	
NZ	110	50,05	•	1	
	1,85-46.56	64,5405	57 174.83	5770 .67	NZ
	x68 122 145		57196,0587	5815,9990	
13		62.13	•	+ /	
	V158 142145	43,3650	57 196.06	\$ 816.01	13
	210 ,23 6	/	57241,0411	5858,8559	
NU	+ 1 . /	50.71	1	+ . /	
	121012317	73.5957	57 241.04	+ B&B, B7 ,	NE
	¥ 66 120 120.	/	57255.0194	5907,6013	
NS	1 10	176,24	4	+ 1/	
	V66.20,20		50,7250	\$ 907 61	NE
	ج الار الرادر		57386,6847	5790,4486	
NG	1 0	1-2, 44		+ , /	
	V1321-1W12	271.3319	57 386.68	5 390.26	15
	3116,39,20		57390,30:34	5656,9977	
N7	+ /	91.29	۰	+ . /	
	12 . هري 21		12,090,01	5 857.001	17
	107.45.8		57453,4813	5722,8895	
NB		146.71		+ , 2	
	V-071461 8	333,5848	57 453.48	5 722,91	NB
	92 156155		57585,3210	5653,5300	
19	0	55.08	1	+ , 2	
	~ 92 1541 56	245.5344	25 کی جر جر	56581551	19
	27214610		57559,6653	5593,3940	
x10	+ /	125.26	٤	<u>+ · 2</u>	
	12721461	339,3945	57557.67	5598, 11/	110
Σß	1843 111 .29	ES 1024,57		t	EXY
-80(12-1) B.T.A		ACCURACY			ВХΫ
d.E.TA	÷ 1	ACCOLUCI	-		d E
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		SE COMPUTA	TION	·····	P.36
ND	1845 11 3)	× 8 5	. X	Y	NO
	130 .37 .55		57678,0544	5854.5	1.24
xII	1.0	47,79	·	+ .	2
	180107150	- 340,1740	57 678.05	Stark .	- V X 111
1	302 121,50	2	57713,6314	5541.7	701
NIZ	× 1 10	140.201			<u>.</u> .
	-302 141,40	102,5930	59 718,631	5541.2	PO XNIZ
	191 158,08		57682,1131	5678,3	814
NR	/	115, 421	,,	+	ى
	1181 15-6148	114,5609	57682.11	5 678,4	41 XNB
	266 14/18	/	57633,4517	5783,0	420
NIL		45.72	· · · ·	+ .	بر
	1266 1441 18	201,4027	57 800, 45		
	168, 5-185		: 57590,9641	5766,1	563
NAS	1 0	171.66	l	<u>+</u> ,	ى
	128 ' 5.55	169,4622	57 50 , 96 ,	576611	IP XIK
	42 NJ 1 V8		57422,0315	5796.6	349
NIG	10	157,05	·	.	<u>//</u>
	1 42 . w1, wB	32,1800	57622,031	\$ 796.6	BXN13
	2461571/3	-	57555,0334	.5880.7	152
<u>~12</u>	3 1 /	P2 .74	, 	+ .	U
	-246 157114	99.1514	57 555 ,03	5880 .7	5 × NI7
	82127151		57540,1200	5972,2	483
NIB	1 10	100, 11 /	, I	4 .	4
	-82127151	1.4305	57540,121	5972.2	P N 13
	207 10:20	<u> </u>	57729,1405	5978,2	178
119	1 0	45, 8W		+ .	4
	V207 1 10124	28, 5529	(U. , R. V. C 2)	ه ه و حرمی	6 XNIP
	19012525		57772.6210	5996.6	935
120	1 1/	139.42			4
	-190 125-126	39,2905	57 772.61	ر، کاتر جری	1 1
	26015/13/1		57872,5838	6079.05	517
NEL	1 10	76.62	/	+ ,	<u>,-</u>
	250 151.01		57872.57	6078 1	0 121
ZB	83°152.25	220, 8425	4	ŧ	·EXY
180(n-1) B.TA	1 1 1 t	ACCURACY	tt		BXY
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ND	563 B 42 27	X & S	. x	Y	NO
	117.39.32	K	57373.8768	6145,1758	
122	1 0	63,28		- +	
	1117 139122		57 244 ,87	6 145.23 1	NZZN
	2261231825		57867,4107	6198,8400	
123	/	, , , , , , , , , , , , , , , , , , ,		ۍ ، ۲	
	122612315P		57 867 . 40 1	6 198.38	123
	227147124	-	57850,4758	6264.8007	
NEL	· · p	63107		+ . 5	
<u>~</u>	1227 147126		57850.471	6264.851	NZE
·	6/12/150		57794,6909	6294,2263	
Nes	1 1 0		/	+ . 6	
<u>~~~</u>	16/12/150		57 784.68	6294,29	Nat
	21517112	-	57855, 4189	6334.5022	
N26		169.07	· · · · · · · · · · · · · · · · · · ·	+ . 6	
100	265-17142		57 855,41	८ २४५८, ५४ /	1.33
	300 1 1 2	· · · · · · · · · · · · · · · · · · ·	57801.1688	6494.9488	/
1127		262,79	,	+ 16	
<u>N 27</u>	1 1/ V. J. O. C. T. L. V	228.4156	47 804 14	6475.01	(1)22
	8/13/120	22014100	<u>\$7 80/ 16 /</u> 57627.7231	6297.5275	NET
<u>N28</u>	1 81 144120		57637 12/	+ , 6	112
		- 1:0.1010	57556,6573	6381.4111	NED
	201:25-64			+ . 7	
<u>N29</u>	0	151,4200			
	201125.46	-	، کی (کی (پی) 57450.0667	<u>6438,8042</u>	<u> </u>
-	18/12/156			+ , 3	
<u>N30</u>	<u> </u>	92, 481	- , /	/_	
	-18/124.57	153,0657	57 450,06	6 438,871	NºU
	146125-126.		57367,6709	6480.5774	
<u>N3/</u>	1 0	24.50		+ . 7 6 12.80 : 65 1	1.1.1
 	~166'25- 48	119,3243	، 66، 76، 75، 75 (). 57330,4410	6546.2398	~ '/
- -	185-102-16		01520,4410		
1/32	D	129.21	/	+ 2	
* 0	V188- 1.22176	125,0459	5730,631	6546,00	<u>حلام م</u>
Z B ,80(n-1)	V-74814849		•	1	EXY
B.TA	a 9	ACCURACY			BXY
d.E.TA	+ 1 1 1	=	1	· · · · · ·	d E
ETA DE			<u></u>		$\frac{de}{n}$

		E COMPUTA	ATION	<u> </u>	36
NO	5.548 36 47	X & 5	. x	Y	NC
	252.23.24		57256,1759	6651,9949	
<u>ى سى مەر</u>		91,9L	1		
<u> </u>	1252123145		57256.17	6 652.07 1	دىرىر
	18,0144.00	· ·	57168,4809	6624.3803	1
<u>E3</u>	0	99,42	1 /		
	189 144.38	207,1322	\$7 168,47	6624.461	£3
	201 13 61 34	(m-)	57080,0732	6578,9005	
53	0	197 93	/	+	
	-231136126	258,4956	57 080,06	6578,981	EZ.
	14/14813/		57041,7376	6394.7185	
<u>E1</u> .	1 1 0		- /	+ .8	,
	24/148131/	.4320.3827	57 041 .731	6 384 ,80 1	E/
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Z B	686 <u>110-16</u>	5 5' 3 8.45 ,80	57 041.73	6 384,80	EXY
180(n-1) B.TA	-62-62 1 1 59512812	ACCURACY	+7 041.74	\$ 284,72	_BXY
LE.TA	- <u>کار احمال، وجیلی</u> 27 - 19 س احمال	/		+ . 8	d E
ETA DE	<u>רבוצטיפבט</u> //ו ו –	345.80 48,000			de n

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TRAVERSE COMPUTATION

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715	• • •	(18 8. 42)	57 145.66	5721.89'	NI
~//	258148110	7	96.5	652	
NI-1	1 1		57132.5		11-1
NU		1 73 59 57	57 255.02	\$ 807.61	NS
15	222130114	92.50	116.3	011 .	1
15-1	1	1	57213.7		15-1
NG 1		(71 05 820)	50, 222 (2)	13,507,61	NS
NS	2241/91 0	126:07	202.3	5917 /	
15-2	1 1	1 1	57133.6	5772	x5-2
NS	r t	1318 2017	57 386,68	5780.46	NB
NG	J61 p14/	55.49	174.2	958/	
252 (200)	4 4		5795.7	77907	202) (205)
NB	1 *	(271 23 17)	10,090,01	x 657,00'	17
N7	26015726	112.76	352.3	30457 10007	
17-1	•	· 1 +	5642.	1759/	17-1
~7	i 1	(46 12 40)	57 453, 48	5722, 21	N3
~8	1071/0150	108,16	373.2	2630 /	1
1040		1 1	5674.5		02:20
N8		(333 58 48	57 585, 42	5-658.55	~17
18	168,50,58	71,19	322.4		
19-1	• •		5615.5		19-1
118	i 1	(1 43 5)	57738,13	5 878,26	1118
<u>~19</u>	12 191 191 12	151.89	331.0		
119-1			5899.8		119-1
N20	, i , 1,	(2 95 9E)	57 872, 47	6 078,10	121
121	205-11-16	46,951	64.	40217 ,	
N21-1	1 I	<u> </u>	6121.		N21-1
N=1	3 1	(120 2036)		6 145 , 23	122
1/22	2121 811	\$8.08	152.1	2837~ 3632~	
122-1	<u>, , , , , , , , , , , , , , , , , , , </u>	• •	6172.0	0690- 1	x122-1
1/23	· F - 1	(104 2357)	57 850.47	6 266.85	N24
124	601 0-130	121.36	57967.4		
N24 7	i 1	1 1	6222.3		NZGI
ZA				t	EXY
_80(n-1) B.TA	1 1	ACCURACY		· · · · · · · · · · · · · · · · · · ·	BXY
d.E.TA					d E
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Line N		E COMPUTA	TION	<u> </u>	48
NO	ß	ح 2 S	. X	γ	ND
NB	116. 4.26	(138 20 17	57 285.02	5-207 61	*5
NS	+ 1 1 4		/ .	ę	1
<u>// N</u>	116 1 11:00			1	
	17/1416	~	57273,8505	5975.1127	
<u>G4</u>	+ 1 14	70.63		+ . /	
	171 1 11 10	65,2857	57273,86	5- 275-12	GU
	2016129.45	· · · · · · · · · · · · · · · · · · ·	57303, 1599	6039.3743	
<u> </u>	+ 1 15	74,05.		فی ا ۲	
<u> </u>	204129150	/	57 202 , 18	603P,401	63
	184123154	<u> </u>	57303,1861	6113,4243	7 -
~7	+ 1 1 4	108.00		· · · · · · · · · · · · · · · · · · ·	
<u> 9-2</u>	184123148		5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+ . L 6113,46,	14->
	1 1	/	57294.9014	6221.6075	<u> </u>
	2431120				
<u> 41</u>	+ 1 • 4			+ , 6	C.
	2431 1.24	151,2409	57 294,94	6221.67	<u> </u>
	20012,005		57184,6220	6267,5068	
Nols	+ 1 1 4	11		+ 12	
	200.29.38	-77153.47	57 184 167	6267 58	NOIS
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ZB	1117 00-0	E 5 UUZ, 76	57 184. 67	6 267 ,53	EXY
180(n-1) B.TA	900, 1 18,20,17		57 184.62	6 267 .51	ВХΥ
d.E.TA	177 153122	.0.086 /		+ . 7	d E
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	228117149		57417,3562	6226,6939	
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	220 17144	349,5453	57 417 .36	6226,681	FZ
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	13616140		+7 +18.011	6208,491	FJ
	176 . 4.48		57598,7070	6099.0181	
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	130	24610022	55,32	218	.1222/ .5900/	
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	130'	1 1	(153 6 57)	57 367,66.	6 480 .65	1.31
	131	240.59.14	76,06	214	.06114	
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	131	1 1	(119 32 43)	57 330, 23-	6 5 46 , 33'	1/102
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COMPUTATION TRAVERSE

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COMPUTATION TRAVERSE

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COMPUTATION TRAVERSE

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DISTANCE AND HEIGHT COMPUTATION

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Line No. 7.-/

Distance & Height Computation

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Distance & Height Computation

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Line No. A

K Distance & Height Computation TZO - TZI TZI - NOIS KOB - EI EI - CT C8 - P9 P9 - P10 P10 - P1 c7 - c8 P11 🛶 P12 P12 -V. + 4 22 24 + 0 25 27 462824 + 12 [1] 8 04 2 30 - 0 56 D 13 4 ١Z 28 20 أفرجي В - 4 J2 44 - 0 25 49 7 2 49 7 + 7 R 43 5 + 0 1210 +0 -10 41 41 8 22 2 510 Vo + 11 32 34 + 0 25 113 (-2 4 9 29 12 5 8 +12 11 30 248 28 27 8 11 +4 -0 Q +6 ىر__ -0 5 S 61218 185 088 SH 092 127 O24 22/ 200 318 127 86 678 125 762 137 676 143 828 5'× 12 045 6 87 0 46 - 11 68 0 60 1+ 28 27 Sin Vo + + 8 + 30 25 -----7 90 + 8 PZ h. . . 1.19 ۰.,۰ μş 101820 11802 87 11808 22 11825 U2 1802 28 h٥ К 1 + 128 123 ✓ \U <u>20|2</u> 121 + / 3/ 7 1.16 + + 128 + 130 + 1 41 f 32 27 28 1.00 24 16 23 - / 3/ 100 - 141 ----Н 28 36 1388 72 1388 27 1377 93 N27 56 1376 97 1401 66 1431 58 1433 02 142KOL e 1 1 1. 1. 1 -1 1 1077 92 Ho אישים לצעת 18 89.51 1881 76 1377 55 11231 91 1424 0.0 1376 26 1401 65 143301 3× 86 406 184 863 Cos Vo 61 216 93 364 226 229 217 722 127 023 13K 312 125 1442 143 711 dD, dD, . So

Line No. C

Distance & Height Computation

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Distance & Height Computation

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5 51.626 111 788 191 108 75 5071 820 858 1280 278 750.	USZ 170 825
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H 1415 61 1122 22 13/28 25 13/20 03	
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Distance & Height Computation

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Distance & Height Computation

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Line No. X/

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Distance & Height Computation

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V1 -	+ 2 42 1	5+0	4.31	-5-5	~ 20	_0	w 2/	-0	6 29	-2	43 21	+2	18 2	-24	11 2	450	16 18	+/2	2 20
٧z	-2 421	0-0	4 22	+50	e/ 3	+0	3 12	+0	6 18	72	43 8	-21	18 11	+74	1. y . K.	-54	16 28	-12	2 50
Vo	+ 2 42 1	6 + 0	11 22	- 1.	-/14	-01	16	-0	6 24	-2	11. 11	+21	18 6	-74	3 47	+5 6	2823	+12	7 45
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Sin Vo	+ ~ 96	1+0	05	- 11	37 -	- 0	11-	- 0	0.9'	- 2.	3 27-	+ 6	32			+ 20	1.3	+ 8	55
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Line No.

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V.	+ 12 26 58	- 3. 18 18	- 6 22 20	-6 24 42		- 6 42 12	-2 0 - 20 - 0 5-	8 8-6184	7-54/2
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S S'×	129 914	/					189 474 262	825 110 607	12/652
<u>Sin Vo</u>	+ 10:08	- 12 42	-7 07'	- 265'	- 1 43	- 8 48'	- + 9.11 - 11	29 -12 15	-12 at
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i	+ ,24	+ ; 31		+ , , , -	+ 141	+ 1 20	+ 1 4/ + 1	11/ + , 22	+ /27
f	- //	- /22	- / 27	- 141	- 1 29			23 - 127	- 126
н	1467 80	1463 57	111.56 35	1118 66	11.47 35			62 111 16 43	
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Line No., C. (OPEN) Distance & Height Computation

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Line No. $F. G(OPEN)$ Distance	&	Height	Computation	

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- dDz = 0.999857383 £ = - 0.000142

Line No. Nolk~No20 Distance & Height Computation

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Line No. A

Distance & Height Computation

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Line No. B

Distance & Height Computation 1017-51 B1-52 B2-83 B3 -84 B4 - B5 BS - B6 B6 - B7 137 - 188 B8-B9 89 🛶 8/3 V. + 4 25 28 + 4 43 25 - 2 24 26 ρ + c UU -5-3035 - 4 47 20 +2 18 36 ~ ٧z +22/20 -11 25 32 - 11/12 32 - 5 20 + 2 26 26 + 05 27 + + - 30 31 +.~ + 4 47 20 ~ 20 -2 10/2 Vo + 5 -2125125 + C 26 30 + 11 42 58 14 -2 24/25 46 نون ا صحا سم ۔ -1 47 20 -0 ~~~ \sim +2/12/29 S 67 181 NI VUB 125 6PO 143 461 26 P85 88 454 84 526 62 326 87 108 49 646 51 * - 284 +10 15 1+10 33 1 Sin Vo 72 51+ د ج ان - 0 05 -811 - 5 53 /- <u>8</u> 84 ナノ 11 1246 36 h. . hz. 1246.94 1254 091 1276 68 1266 58 1265-421 1277 87 1276 74 1261 05 1252 84 1254 88 hoù К 123 + .1 24 + 1 42 1 42 + 1272 + 1.15 + + 100 10 -27 116 + 1 f 27 116 - / 23 27 س جے ر 1.00 ج بن 46 24 16 Н 1213 48 1253 82 1284 27 1276 74 1273 44 1273 441,264 26 1,25 1881,251 67 1,250 65 E D + · 2 + ح J. نۍ ا 12 -----1 ST. 12000 1264 28 Ho 1243 48 1276 76 1274 46 1273 481 1265 29 1/250 93 1251 21 1253 20 51* 15-126 26 142 91 78 92 131 1.0-Cos Vo 67 12 88 45 84 14 62 98 22 49 61 d Driv dD2 So

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Line No. S.

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Distance & Height Computation

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re.	1247 27	1211/86	1229 74	1226 68'	1221 41	1212 56	12.2 11			
К					//	121210	1212 64			
i	+ / 2.0	+ 127	+ 126	+ / 22	+ / 30				<u> </u>	
f	- / 27			1	- / 23	+ / 23	+ 1 48	· · · · ·	+ 116	1
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Line No. A (OPEN)

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Distance & Height Computation NOIS ~ NOIS ALL ~ ALL-1 AS ~ AS-1 A9 ~ A9, NOI7 ~ NOI7 NO18 ----- BP -- $\mathbf{M}_{\mathbf{1}}$ تن ــ 12/10 sV + W 10-19 Vo + 123 28 8 18 38 + 2 51 -6 336 211 - / × S 91498 48 225 106 742 53 433 78 725 76 100 5 1 + 2 59 + 1/021 + 5 20 + 0 86 803 Sin Vo - 3-120-----16 1 1211 21' 121121. 1181 61 120K PZ 1231 78 1246 36 h. h2 h. К 148 - 128 4 /182 48: 55 1/2 1 + 127 + + + 1 + f 44 200 129 -+ *ئ*ى 131 125 _ ----н 1206 15 1206 16 е Нo 1206 16 1202 21 1203 58 234 22 1 200 200 1212 17' <u>ہ</u> ک 91 34 48 22' Cos Vo 28 64 24 106 71 XU 122 67

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Line No. B (OPFN) Distance & Height Computation

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Line No. 8 (oPr.x) Distance & Height Computation

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Line No. 35 (OPEN) Distance & Height Computation

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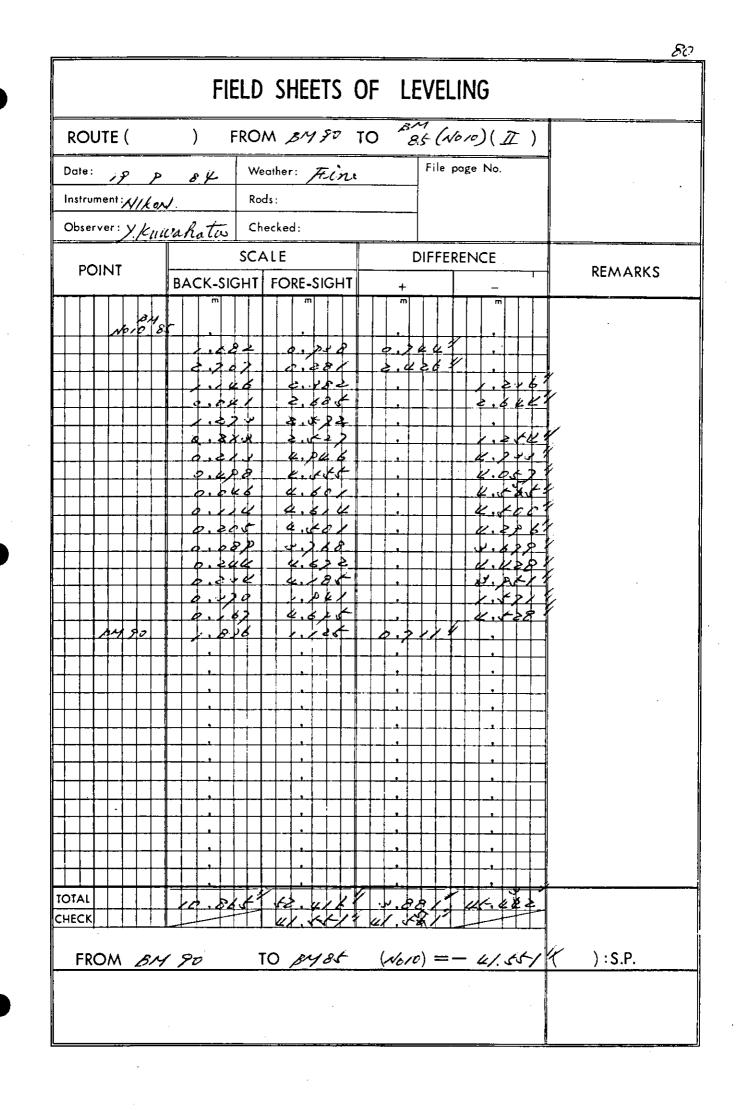
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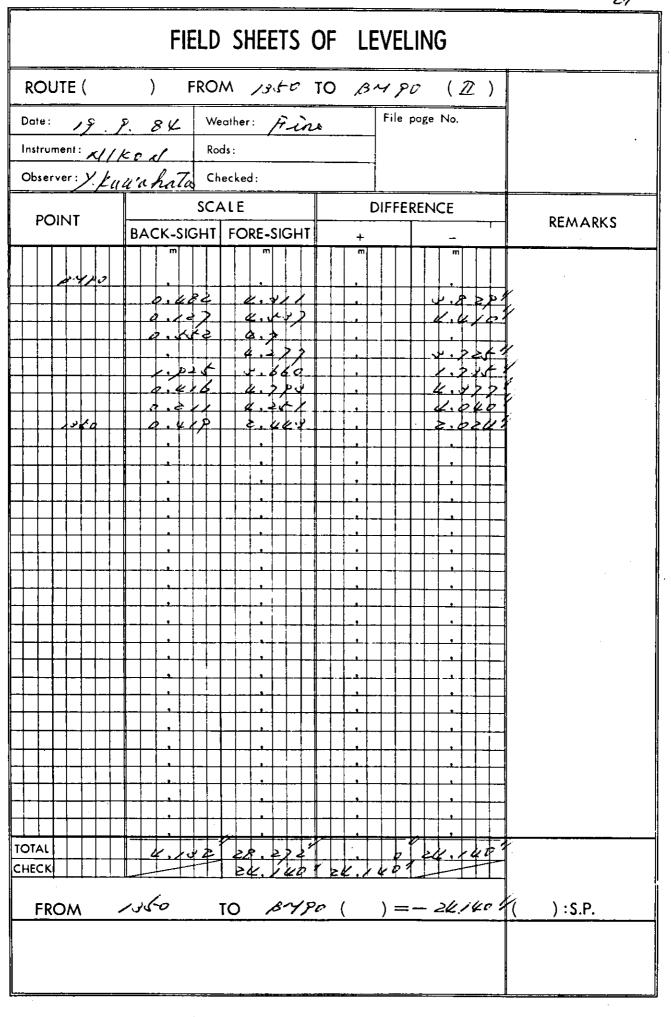
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Line No. 1912 Distance & Height Computation

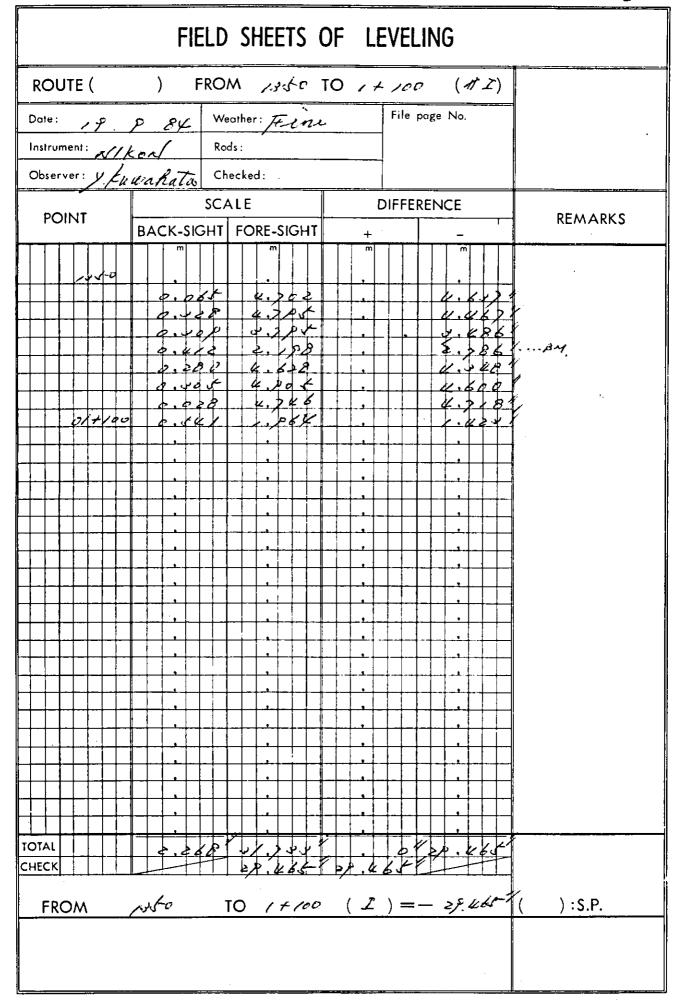
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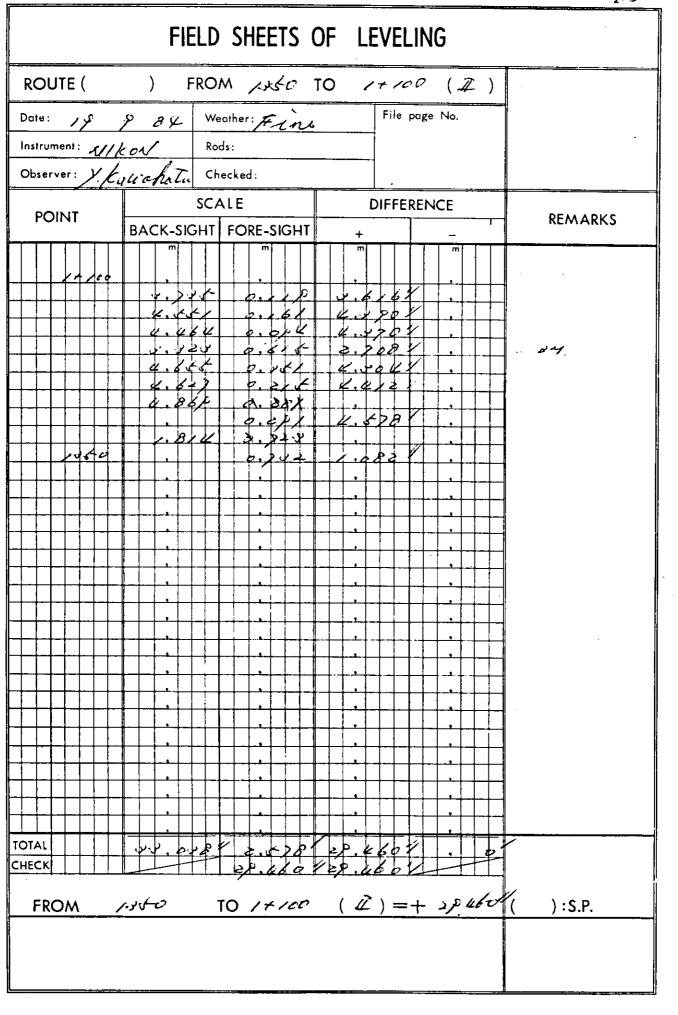




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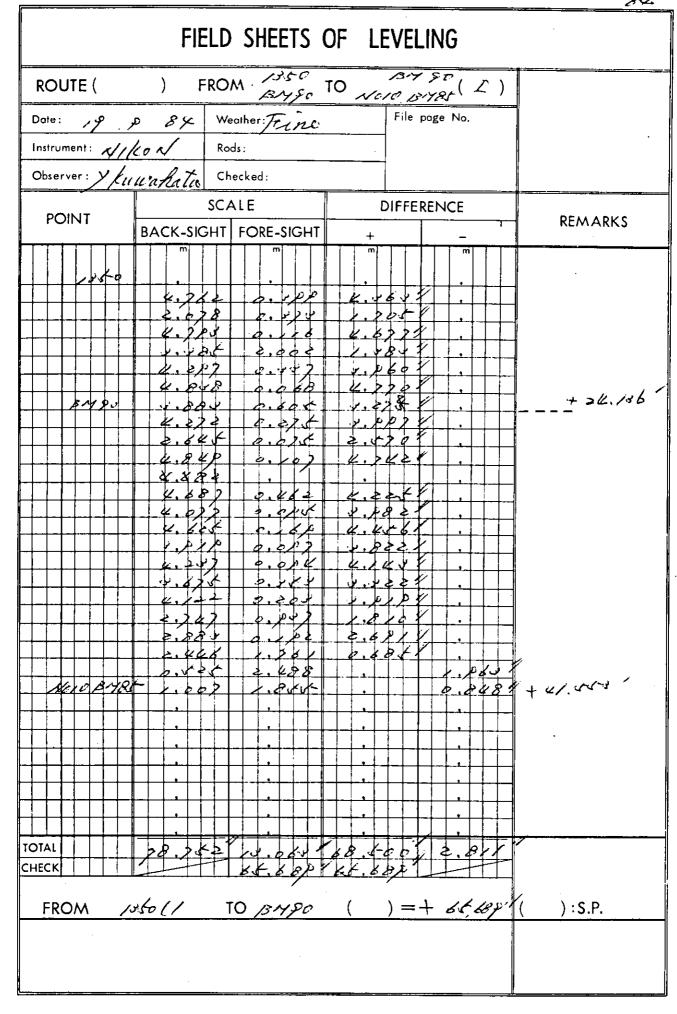


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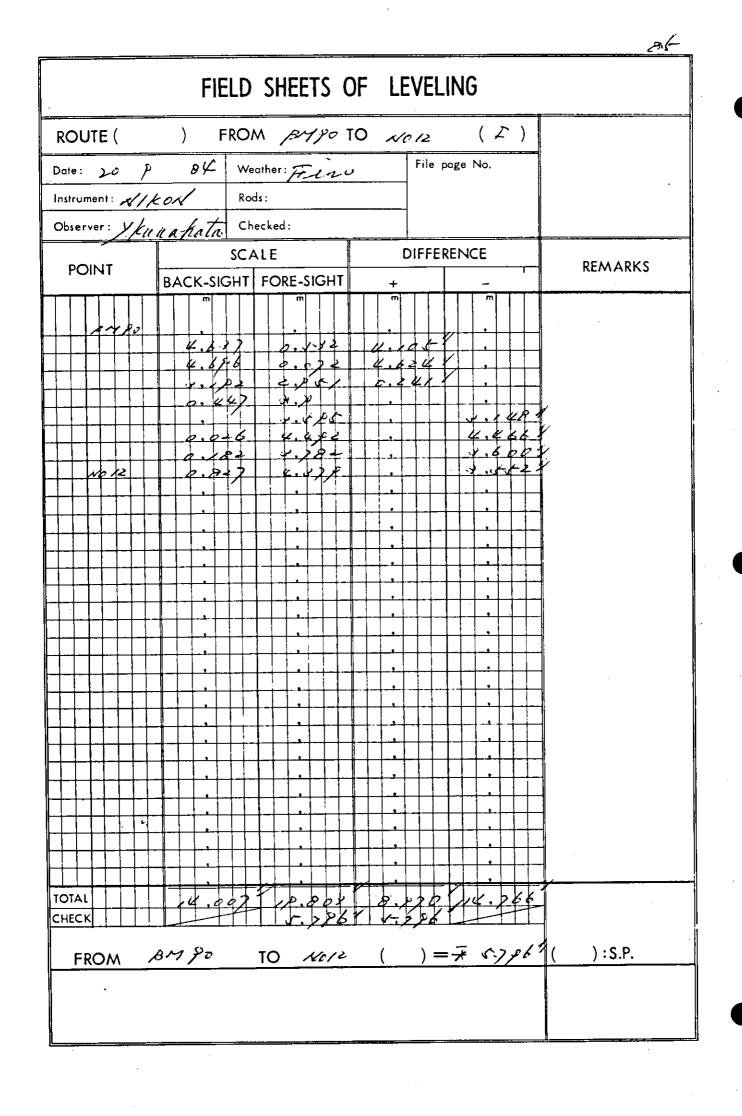


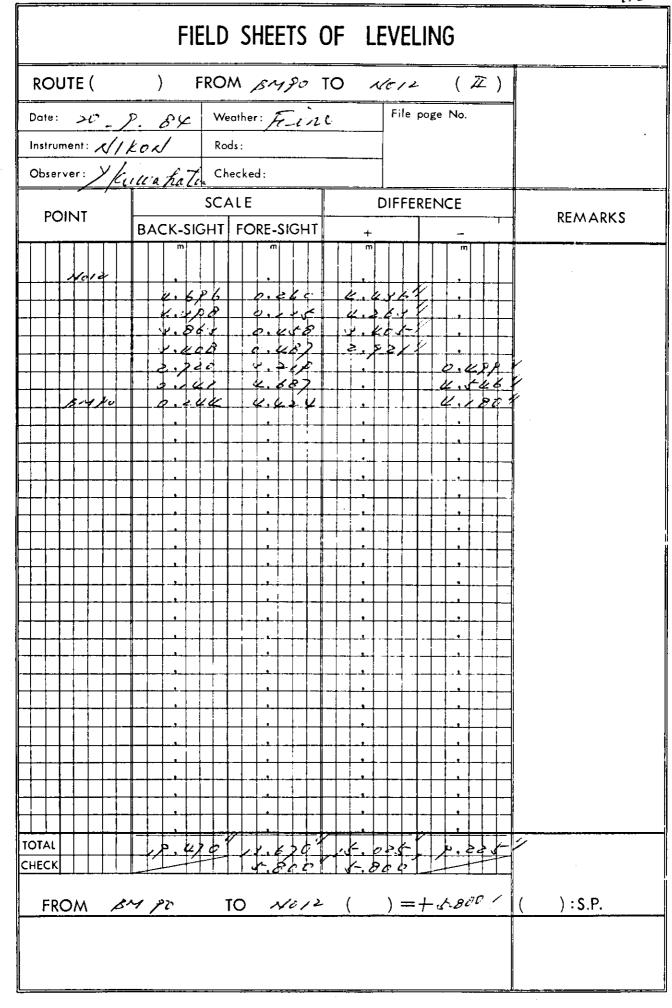
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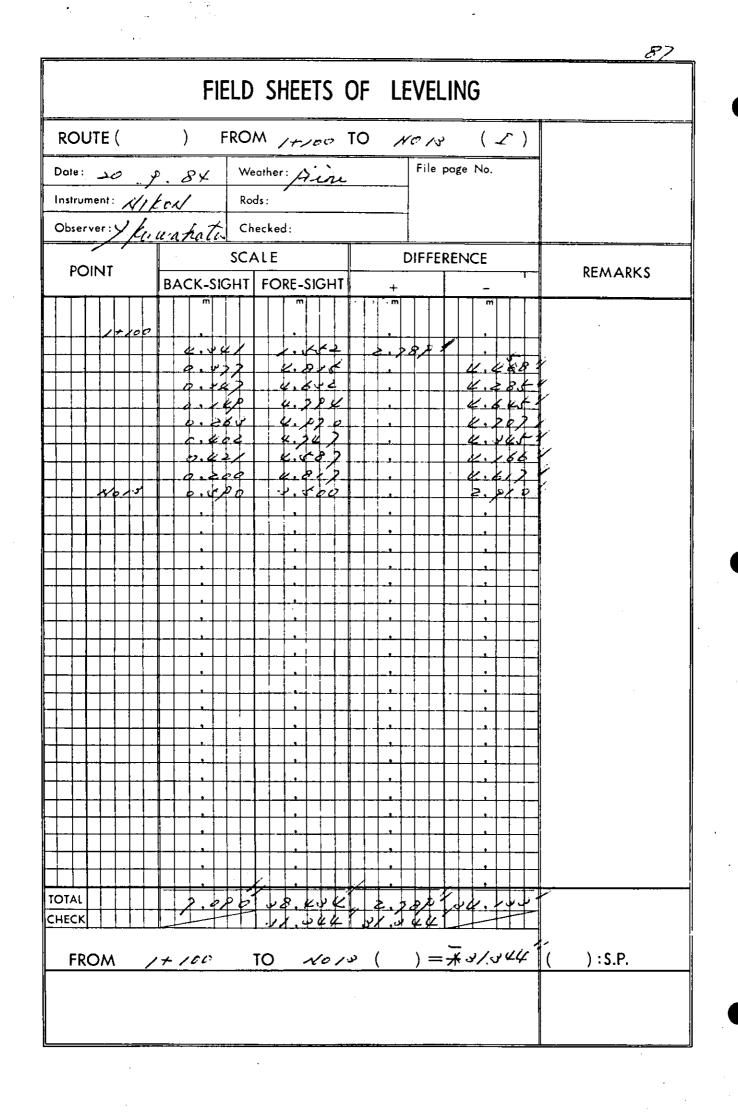


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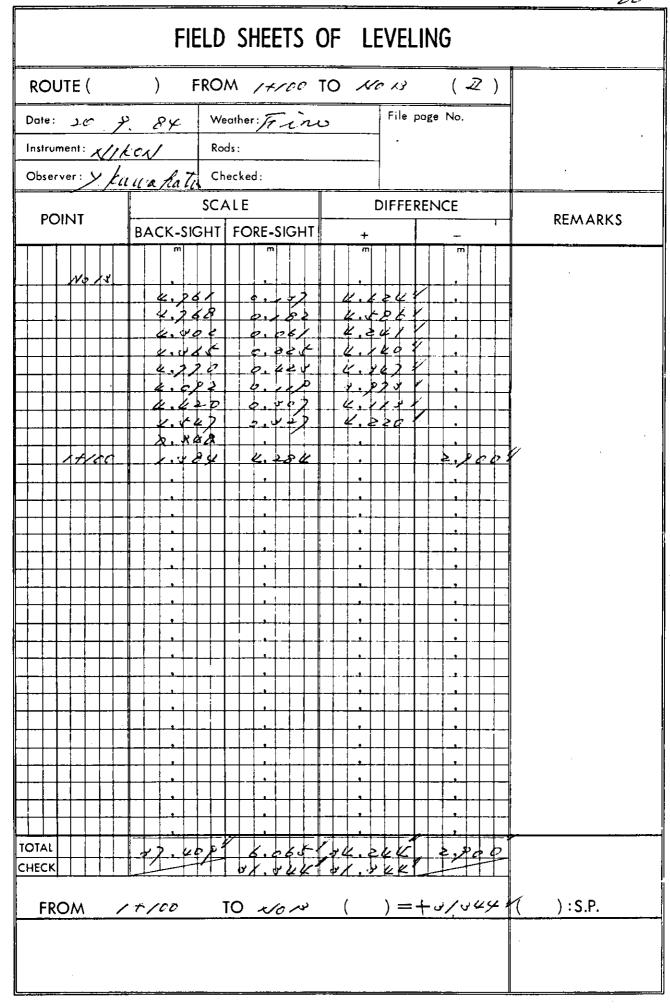


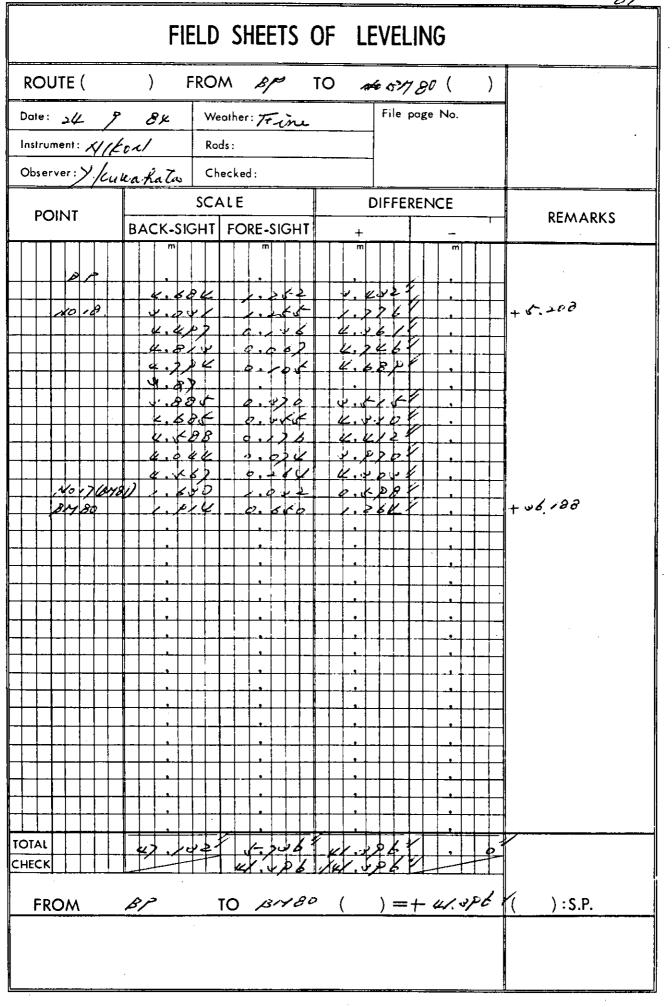
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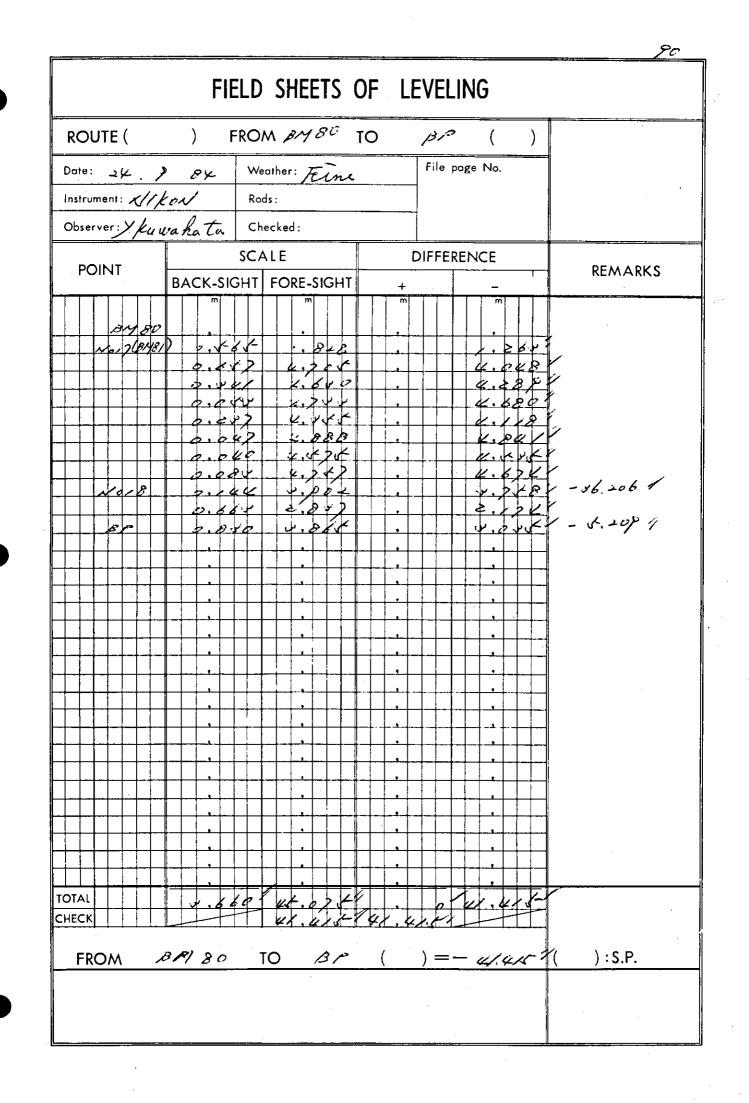


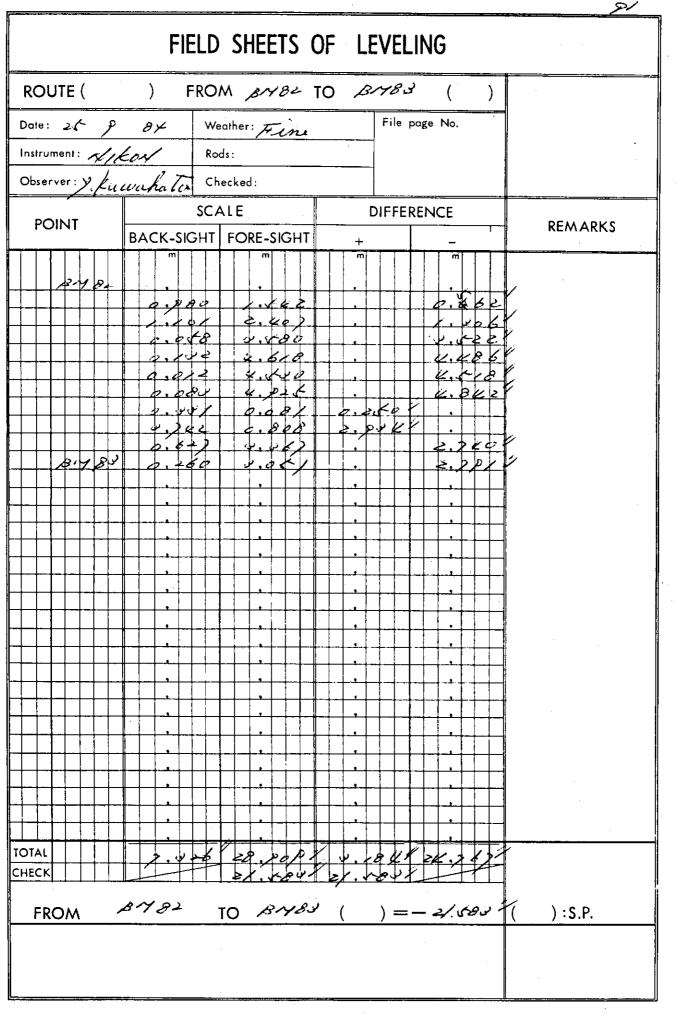


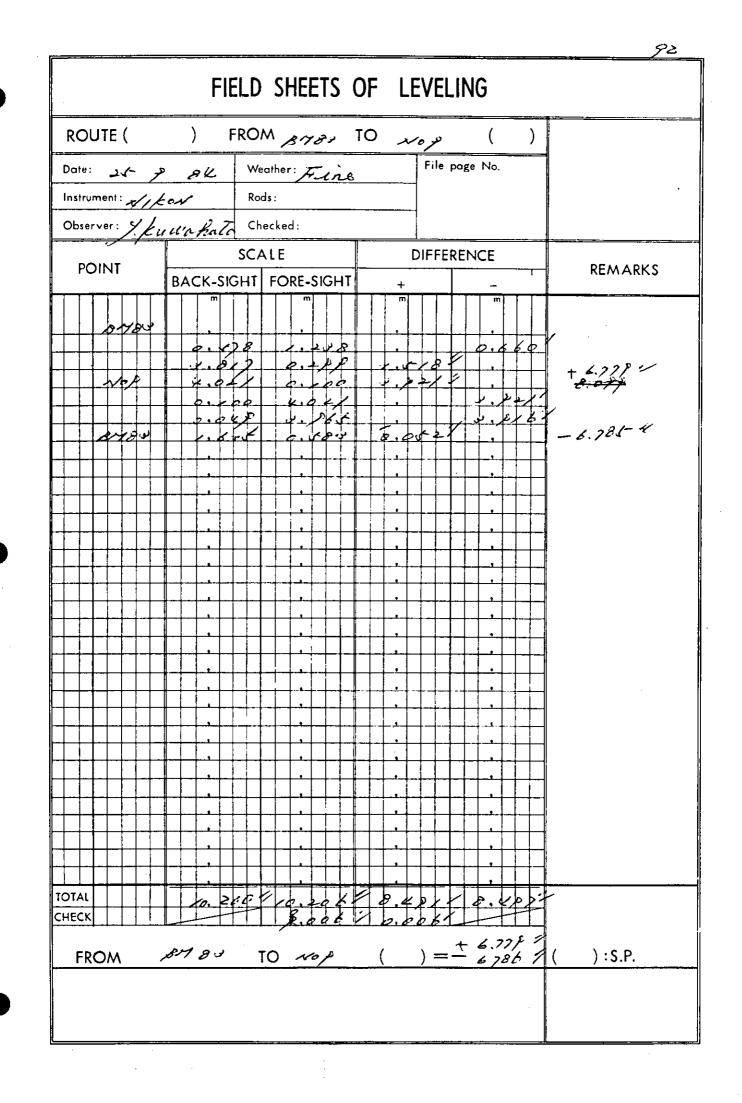
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## DISTANCE MEASUREMENT

DISTANC	E MEASUR	EMENT	s	itation :
		DIRECT REAL	DING	No 6
Inst Height	Eccentricity Diagra	ım Date: تر	) EK S	tn. Page
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		••••		ile Page
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	· · · · · · · ·	Booker :		
Inst. No		Checked :		PACIFIC ACIM SOUTET CO., LTD.
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Reflecter Stn.	167 19			
Reflecter No.	M	 M	M	M
Reflecter Height	•	•	•	•
Time	м	M	м	M
Measuring I	5021 · 1501	•	,	•
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Inst. No	•••••••	• • • Booker : • • • Checked :		PACIFIC ALERO SUBJET CO., UN.
Reflector Stn.	10 ]			
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Inst. No	· · · · · · ·	Checked :		PACIFIC AEDA SADTET CB., LTN.
Reflecter Stn.	NO 7			
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Reflecter Stn.	4010	~10. (B	0 M_B3)					
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Inst Height	Eccentric	bity Diagra	m [	Date: 12	-7 -8	Stn. P	age of	
_ <u>II</u> м		•••	::: [	Weather : A	ine			
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unununun ununun		•••	•••• [E	Booker:				
Inst. No	 	•••	$\cdots$	Checked :			MCIFIC ACM	
		0	c k a	, <b>)</b>				
Reflecter Stn.	1101	<i>v</i>	SKP	<u> </u>				
Reflecter No.		A		M		м		м
Reflecter Height				•	<u> </u>	•		•
Time Measuring	N		· · · · · ·	M		M		M
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22	·	222	106	8.026		•		•
3	1880.	<u> 918</u>	1068	.017		•		<b>.</b>
4	·	PCH.		· 023		•		•
5				•		•		•
Mean	1828	p167	1068	8.0221		•		•
Atmospheric Observ.	Temp.(°C) P	ress.(mb)	Temp.(℃)	Press.(mb)	Temp.(℃)	Press.(mb)	Temp.(℃)	Press.(mb)
Inst. I								
Refl. I	≥Pi	718	100	7.P				
Inst. 2								
Refl. 2		<u>.</u>						
Sum							· .	
Mean				·				
Correction Ecc. Corr.	N.	Λ.		м •		м •		м •
Reflecter Constant		. '		•		•		•
Instrument Constant	•			• •		•		•
Atm. Corr.	( PPM) .	,	( PPM	).	( PPM	).	( РРМ	).
Sum Corr.		,				•		•
Distance Observed Dist.						•		•
Slope Dist.		,	1.0	•		•		•
Remarks	· · · · · ·							
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DISTANC	E MEASU				Statio	Station :		
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Inst Hoight	Eccentricity Dia	Diagram Date: 13 - 2 - 84- Stn. Page of						
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		• • • •	Visibility : C	road	File F	Dage		
	· · · · · · · ·	· • • •	Observer :	Kunsts	7B			
uutuun Euronaan	• • • • • •	• • •	Booker :				7	
Inst. No	• • • • • • •	• • •	Checked :			PACIFIC ACT	S SHITEY CO., CO.	
Reflecter Stn.	NO.P			•				
Reflecter No.	<u></u>		10					
Reflecter Height	M		M	<u> </u>	M		М	
Time			•					
Measuring	J342.178	•	M		M	· · · · · ·	M	
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4	.178				· · · · · · · · · · · · · · · · · · ·			
5			· · · · ·					
Mean	2862.178		•		•			
Atmospheric Observ.	Temp.(°C) Press.(m		) Press.(mb)	Temp.(℃)	Press.(mb)	Temp.(℃)	Press.(mb)	
Inst.			•					
Refl.	-28 -22-	Ha						
Inst. 2		7			- -			
Refl. 2					•			
Sum								
Mean			· · ·					
Correction Ecc. Corr.	M .		M •		м •		M •	
Reflecter Constant	•		•		•			
Instrument Constant	•		•		•		•	
Atm. Corr.	( PPM) .	( PP	^{M)} .	( PPM)	•	( PPM	)	
Sum Corr.	•		•		•		•	
Distance Observed Dist.	•		•		•		-	
Stope Dist.	•		•		•		•	
Remarks					, <u></u> ,	<b>~</b>		

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DISTANC	E MEASUR	EMENT	Station :		
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Inst Height	Eccentricity Diagra	im Date: 🖌	- 9 - 84	Stn. Page . of	
м н		Weather :	Weather : Fine,		
		Visibility :	good.	File Page	
	•••••	Observer : X	kuwahata		
	· · · · · · · ·	Booker :		/==7	
Inst. No		Checked :		PACIFIC ALCO SPATET CO., LTU.	
				· ·	
Reflecter Stn.	NOIL				
Reflecter No.	M		м	M	
Reflecter Height	· · ·	•	•	•	
Time	12:70 M	12 : 18 M		M	
Measuring I	<u>ـ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰</u>	2-371.040	*	· ·	
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3	2-27/.328	0 هردن .	•	•	
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5	للمرب من .			· · ·	
Mean	•	2871.348	· .		
Atmospheric Observ.	Temp.(°C) Press.(mb)		Temp.(℃) Press	s.(mb) Temp.(℃) Press.(mb)	
Inst. 1	26.2 718	•			
Refl. I					
Inst. 2				·	
Refl. 2					
Sum					
Mean					
Correction Eco. Corr.	M	M •	м •	M -	
Reflecter Constant	•	•	•	•	
Instrument Constant	•	•	•		
Atm. Corr.	( PPM) .	( PPM) .	( PPM) .	( PPM) .	
Sum Corr.	· •	·	•		
Distance Observed Dist.		•	•		
Slope Dist.	•	· · · · · · · · · · · · · · · · · · ·	•		
Remarks					
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DISTANCE MEASUREME			NT CT READING			Station : NO 1K					
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nst. No	• • • • •	•••		Booker : Dhecked :			MCHALLER MCHALLER	SHEFTY CO., LIN.			
Reflecter Stn.	ЛО	15									
Reflecter No.		M		M		M		м			
Reflecter Height		•		•		•		•			
Measuring I	41p	M · 142	417	M. 140		M		м •			
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lean Atmospheric Observ.		•	418	1P.116 .		•	•				
	Temp.(℃)	· · · ·	Temp.(℃)	Press.(mb)	Temp.(°C)	Press.(mb)	Temp.(℃)	Press.(mb			
nst. I	مد	718				·					
nst. 2						•		· · · · · · · · · · · · · · · · · · ·			
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orrection co. Corr.		м		M •		M		М •			
eflecter Constant		•		•		•		•			
nstrument Constant	( РРМ)	•	( PPM		( РРМ)		( PPM	•			
um Corr.	•								•		•
)istance bserved Dist.		•		•		• •		•			
Nope Dist.		•		4		•		4			
emarks											
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DISTANCE MEASUREMENT DIRECT READING						Stati	Station: X/C <del>/S</del>		
Inst Height	Eccer	ntricity Diagra	[	Date: $\varphi - \beta - e^{\beta} \neq$		Stn. Page of			
	· · · ·	•••		Weather: Fine Visibility: Gaach			File Page		
	· · · ·	•••	••••	Observer :	Kuwaha To	-			
		• • •	•••	Booker:				Ţ	
Inst. No	1	**'·····		Checked :			PICIFIC ALL	IN SUBTET CO., LTD	
Reflecter Stn.	10	15							
Reflecter No.									
Reflecter Height		M •		M •	м			M •	
Time			 				ļ		
Measuring I	الاحرر	р <mark>м</mark> 9 <i>-766</i>	1939	, м . <u></u>	M •			м •	
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3	رور ر	8.740	15 . 4 . B. C.S .				•		
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5	_	. 762		, 24 ye .		• • ·	•		
Mean Atmospheric Observ.		•	193	8.774	· ·	<u>.    </u>		•	
Atmospheric Observ.		Press.(mb)	Temp.(℃)	Press.(mb)	Temp.(°C) Pre	ss.(mb)	Temp.(℃)	Press.(mb)	
Inst. I	300	76RS							
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Refl. 2									
Sum						·			
Mean		м		м	M			1.4	
Correction Eco. Corr.		•		•	•		M .		
Reflecter Constant		•						•	
Instrument Constant		•		•	•			•	
Atm. Corr.	( РРМ	).	( PPM	)	( PPM) .		( РРМ	)	
Sum Corr.		•		•	•			•	
Distance Observed Dist.	ř ř	•		•					
Slope Dist.				•			-	•	
Remarks									

DISTANCE	Station : NO 17						
Inst Height	Eccentricity Diagra		Date: 1 16 - 84				
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	Visibility: gaud. File F Observer: Vkugahata		· · ·			2	
Inst. No		Checked :			PICIFIC AEBO SHIT	(Y CO., LTM.	
Reflecter Stn.	NO 15						
Reflector No.							
Reflector Height	M 	M •	M .		• •	<b>)</b>	
Time	NA	м	M		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Measuring I	2,37.3K1	•	•				
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4	2137.347 · x41	•			· · · · · · · · · · · · · · · · · · ·		
5	JK 3	•	•		•		
Mean	2137.346	•					
Atmospheric Observ.	Temp.(℃) Press.(mb)	Temp.(℃) Press.(mb)	Temp.(℃) Pres	s.(mb)	Temp.(℃) Pr	ess.(mb)	
Inst. I	مرسر عمد	•					
Reft. I							
Inst. 2							
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Sum							
Mean							
Correction Ecc. Corr.	м	M •	м		•		
Reflecter Constant	•	•			•		
Instrument Constant		· •	•		•		
Atm. Corr.	( PPM) .	( PPM) .	( PPM)		( PPM) .		
Sum Corr.	•	•	•				
Distance Observed Dist.	•	•					
Slope Dist.			•		•		
Remarks		· · · · · · · · · · · · · · · · · · ·					

DISTANC	Station : No 18			
Inst Height				
	Eccentricity Diagra	am Date: 🖌	-9-84	Stn. Page of
∥ ┌──┴┻┓ м	•••••••	Weather :	Fine	
		Visibility		File Page
			Kuwahata	·
			pueverano	
		Booker :		
Inst. No	1	Checked :		MICIFIC AFEB SWOTET CO., LTD.
Reflecter Stn.	NOIP		10 17	
Reflecter No.				
Reflecter Height	M ·	M •	M .	M •
Time				
Measuring	2086.562	> px M. con A	ر. جدس مر جدس	M
2	2000.002	2086 . stest		Ì
2		000.003		
	2086.544	•	5-28.6;	
4	· · · · · · · · · · · · · · · · · · ·	•	K 20	
5	· 570			
Mean Atmospheric Observ.	2086-559	2086 .556	528.7	
Atmospheric Observ.	Temp.(°C) Press.(mb)	Temp.(℃) Press.(mb)	Temp.(℃) Press	s.(mb) Temp.(℃) Press.(mb)
Inst. I	28°C 746	•	יב שי	26
Refi. I				
Inst. 2				
Refl. 2				
Sum				
Mean				
Correction	м	M	м	M
Ecc. Corr.	•	•	•	•
Reflecter Constant	•	•	•	•
Instrument Constant	•	•	•	•
Atm. Corr.	( PPM)	( PPM) .	( PPM) .	( PPM) .
Sum Corr.	•	•	•	•
Distance				
Observed Dist.	•	•	•	•
Slope Dist.	-	•	•	•
Remarks	• •			

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DISTANC	E ME	ASUR		NT T READ	DING	Statio	n: 4020	
M	Eccen ⁻	Weather : Visibility :		Date: 8-P-84 Weather: Frine Visibility: Jacob. Observer: J. Luwa hat		File P	Stn. Page of File Page	
Inst. No	• • • • • • • • • • • •	• • • •		Booker :	. <u></u>		A CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT.	аланатт са.,ца.
Reflecter Stn.	NO	يې د	10	19		, ·		
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Mean Atmospheric Observ.		Press.(mb)		1.012	Тетр.(℃)	Press.(mb)	Temp.(℃)	Press.(mb)
Inst. I	3/	260	, ·	•		•		
Inst. 2		· · · · · · · · · · · · · · · · · · ·		, ,				
Refl. 2 Sum								
Mean Correction Eco. Corr.		<u>і</u> м		M •		м •		<u>і</u> м •
Reflecter Constant		•		•		•		•
Atm. Corr.	( PPM		( РРМ		( РРМ)		( PPM	
Sum Corr. Distance Observed Dist.		•		•		•		•
Slope Dist.		•		•				•

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DISTANCE MEASUREMENT DIRECT READING						Station : 12 جر T			
Inst Height	Eccen	tricity Diagra	am	Date: B	- 7 - 6	يو ج	Stn. P	age	
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		•••	••••	Booker:	<u></u>				
Inst. No	<del></del>			Checked :	T			MICIFIC ACC	O SURVEY CO., LTR.
Reflecter Stn.	No	2							
Reflecter No.									
Reflecter Height		м •		м •	1	M			M .
Time	· · .								
Measuring		М		м		M			м
l	617	2.221		•		•			•
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3	617	. 770		• •			· · ·		
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5		•			•				•
Mean	61	. 770 -	F.	•					•
Atmospheric Observ.		Press.(mb)	Temp.(℃)	Press.(mb)	Temp.(℃)	Press	.(mb)	Temp.(℃)	Press.(ml
Inst. I	JOC	74.9.		•					
Refl. I									
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Sum									
Mean									
Correction		м		М		м			М
Ecc. Corr.		•		·		•			•
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Atm. Corr.		<b>′</b> .	( PPM	PPM) ( PPM) .				· .	
Sum Corr.		•		•		•			•
Distance Observed Dist.		•		•					•
Slope Dist.			•						

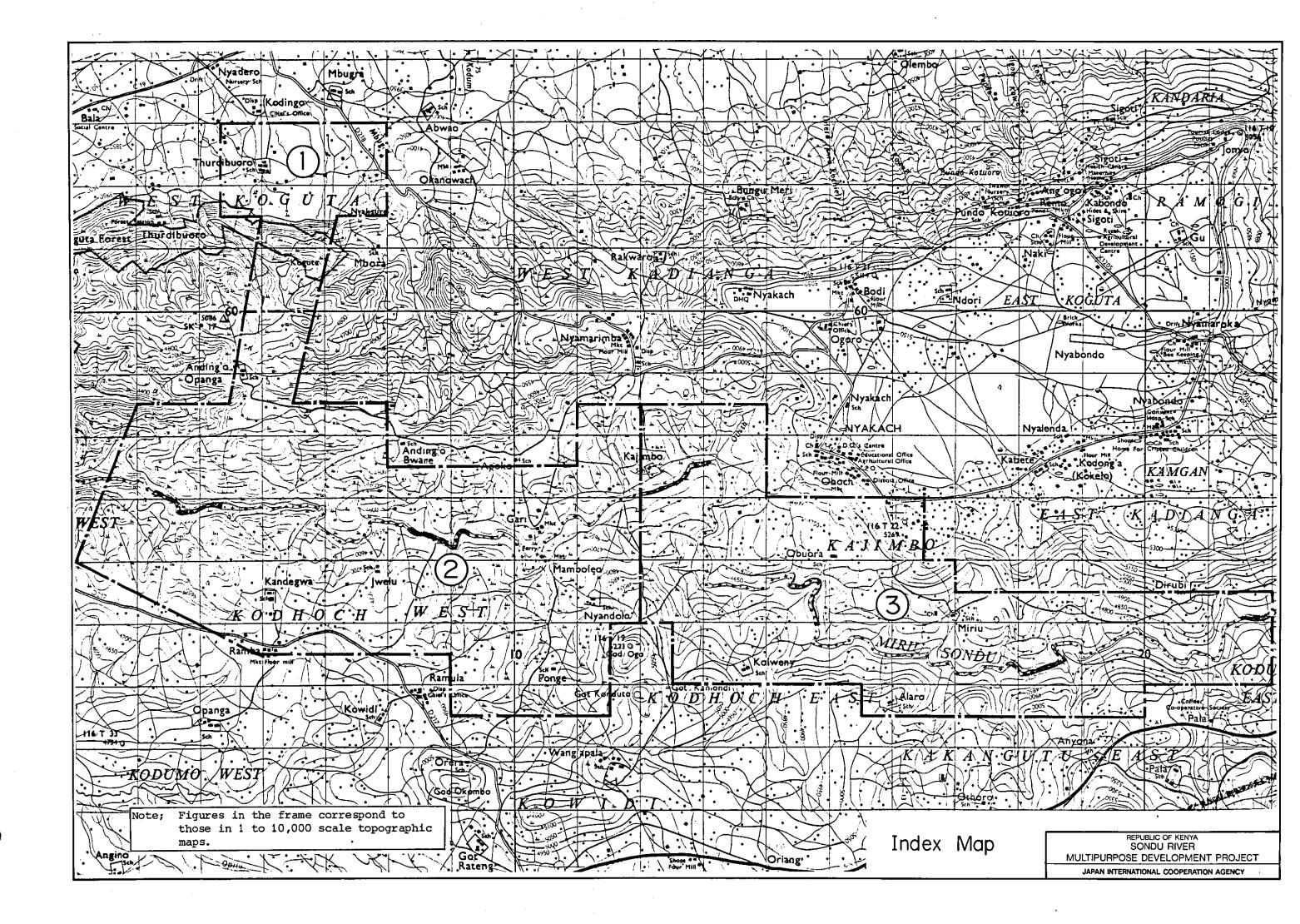
DISTANCE MEASUREMENT DIRECT READING				Station : DING			
Inst Height	Eccentricity Diagra			Py_ Stn. P			
r-ll_n M		Weat	ther : Time		01		
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		Obse	rver: Y. Ker any	hates			
untimmitmumu	••••••	••• Book	er:				
Inst. No	• • • • • • •	Chec	ked :		MCIFIC AED	SHITEY CO., LTD.	
Reflecter Stn.	NO 2						
Reflector No.							
Reflector Height	M .	M .		M •		M	
Time							
Measuring I	2 208 · 74P	1000 م م	244	M		M	
2	1		217	•		•	
3	· 736 2-208 · 208		725	•		•	
4	. بردر	•		•			
5	. 743			•		•	
Mean		2208.7	2006	•		•	
Atmospheric Observ.	Temp.(°C) Press.(mb)	Temp.(°C) Pre	ess.(mb) Temp.(°C)	Press.(mb)	Temp.(℃)	Press.(mb)	
Inst. I	عربية عدين		• · · · ·				
Refl. I							
Inst. 2							
Refl. 2						-	
Sum							
Mean							
Correction Ecc. Corr.	м	M		M •		м -	
Reflecter Constant	• ·	•		•			
Instrument Constant		•		•			
Atm. Corr.	( PPM) .	( PPM) .	( PPN	•	( PPM)	•	
Sum Corr.	•			•		•	
Distance Observed Dist.	•			•		•	
Slope Dist.	•	· .		•		•	
Remarks							
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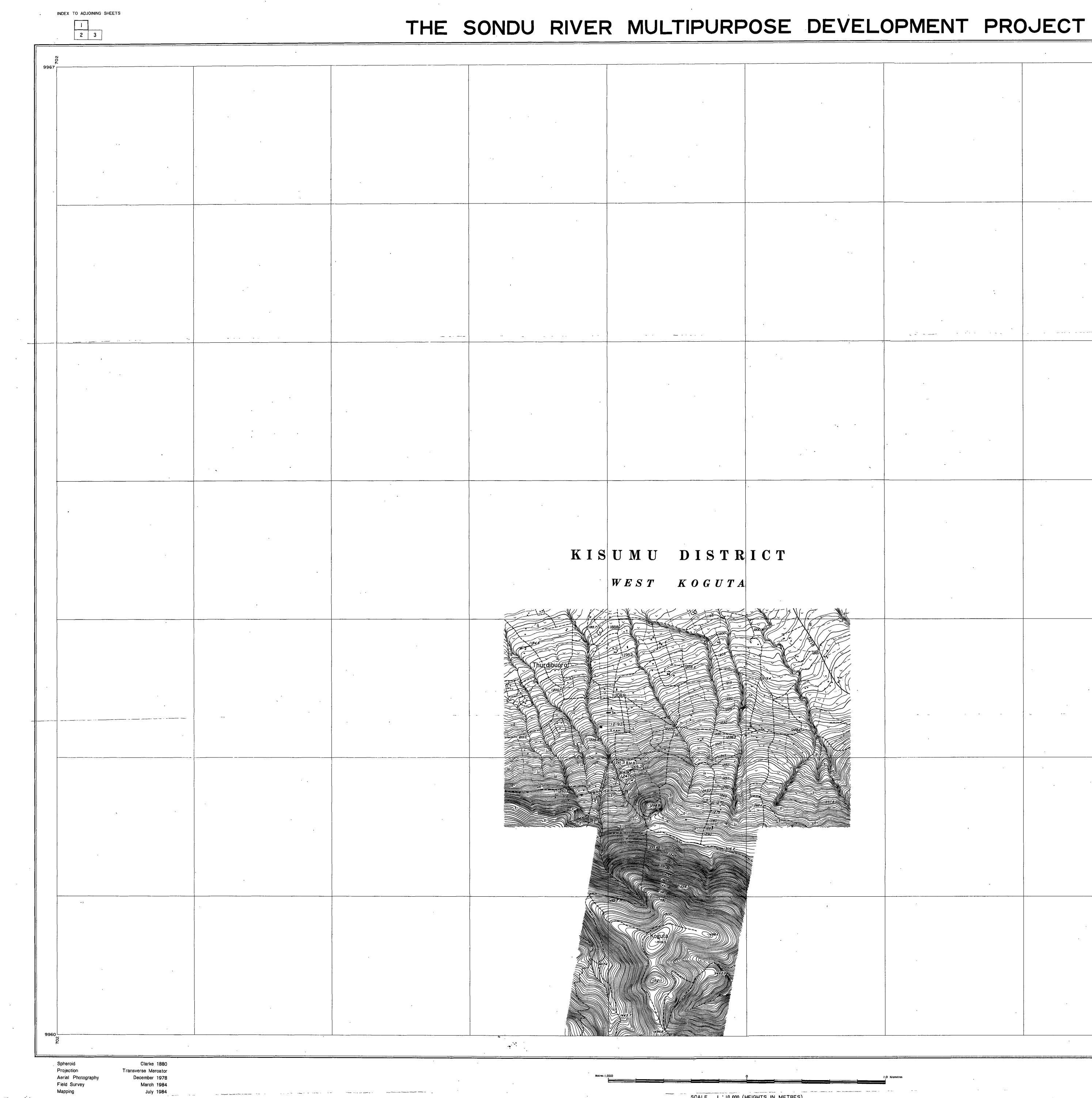
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DISTANC	Station	Station: NoP				
Inst Height	Eccentricity Diagra			Stn. Page - of		
	· · · · · · · ·	Weather:	File P	age .		
□		Observer : Y	he wahater			
	,	· · · Booker :				
Inst. No		Checked :		INCIFIC ACHI SHIYEY CO., LTII.		
Reflecter Stn.	NOIL	2/0/2	NO 12			
Reflecter No.						
Reflecter Height	M .	M .	M •	M •		
Time						
Measuring I	1863 · V22	1864.567	1863 · 542	M •		
2	. +28	· 412 1863 · 8562	. 402	•		
3	1863.548	1863. 2562	1863.546	•		
4	· 124	. 56-256	.546	•		
5	•	•	•	•		
Mean	•	•	1863.536"	·		
Atmospheric Observ	Temp.(℃) Press.(mb)	) Temp.(°C) Press.(mb)	Temp.(℃) Press.(mb)	Temp.(℃) Press.(mb		
Inst. 1	v2 722					
Refl. I						
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Refl. 2						
Sum				· · · · · · · · · · · · · · · · · · ·		
Mean			M	м		
Correction Ecc. Corr.	M	M .	M •			
Reflecter Constant	•	· .	•	·		
Instrument Constant	•		•			
Atm. Corr.	( PPM) .	( PPM) .	( PPM) .	( PPM)		
Sum Corr.	•	<u> </u>	•	•		
Distance Observed Dist.				•		
Slope Dist.	• • •	•	•	•		
Remarks			· · · · · · · · · · · · · · · · · · ·			
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## TOPOGRAPHIC MAP





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EVELOP	MENT	PROJECT	SHEET NO.1
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			LEGEND Road Main Track
			Track and Footpar = = = = Road under Consti (Approx. Align.)
			Watercourse Watercourse (wide 
			→
			● Water Tank Building Ch Church
·····	<pre></pre>		Mos Mosque Soh School Mkt Market Disp Dispensary
			Wall Fence Power Transmissi Tower
			△ Trigonometrical St ▽ Trigonometrical St ^{B.M} Bench Mark ○ Traverse Point
-、 -   .			Minor Leveling Po     Spot Height     Boundary of Land
	-		Image: Comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the comparison of the compar
			Scattered Tree     L     Scrub     T     Palms     Plantation     Orchard
	·		Swamp Seasonal Swamp Sand or Mud Cultivated Land B
			Standard Contour Index Contour Line Supplementary 1/2 Contour Line
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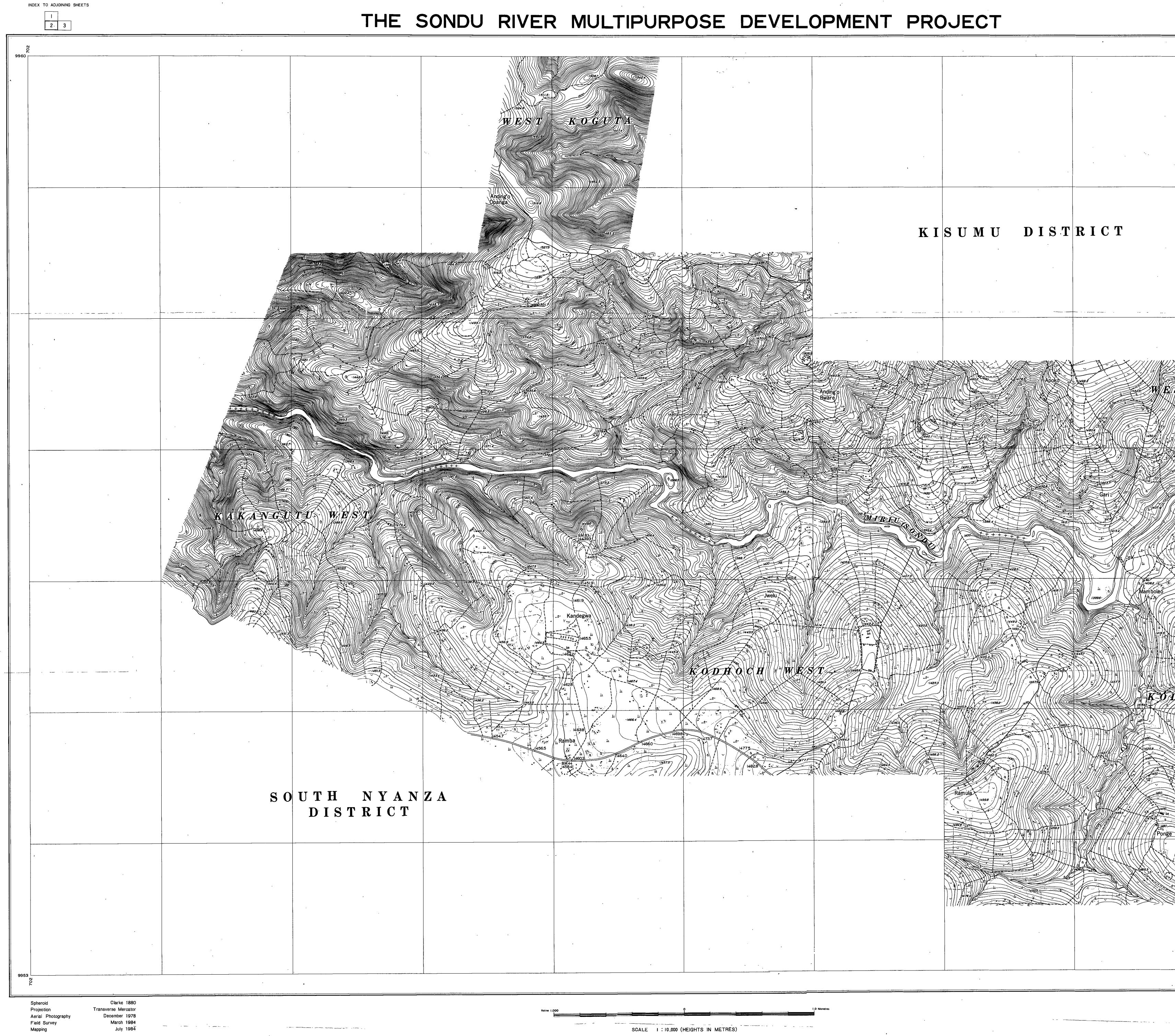
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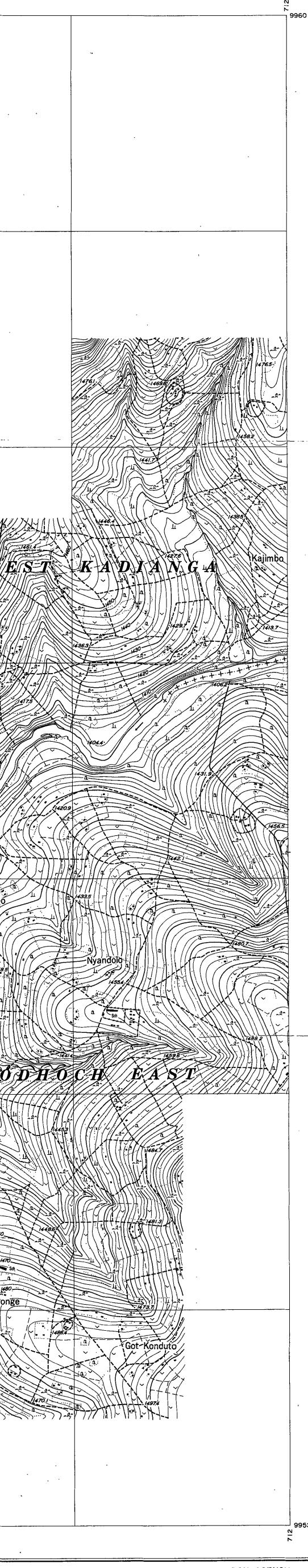
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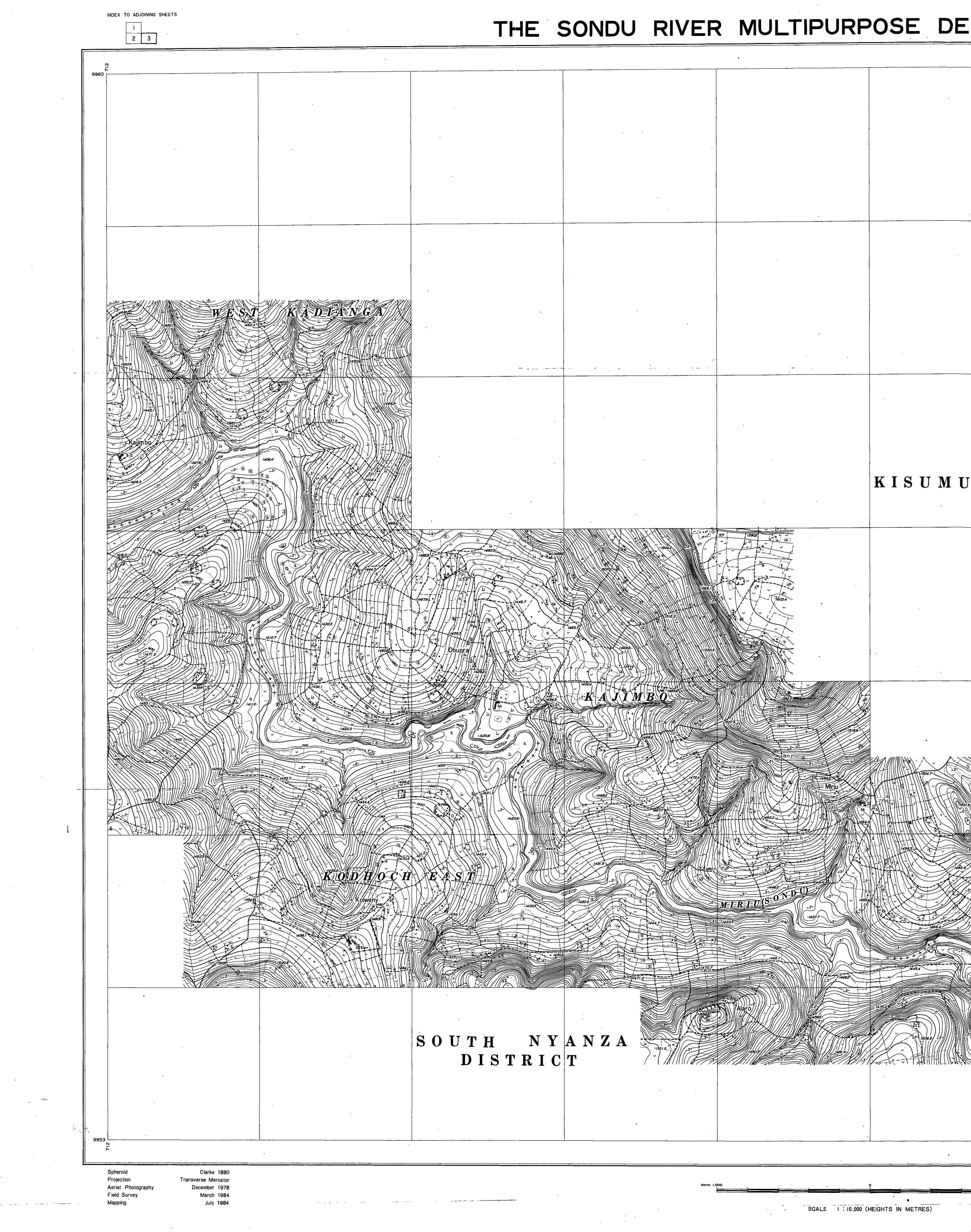




LEGEND = = = = Road under Constru (Approx, Ali Cutting and Embankm Watercourse (wide — — — — Watercourse (Indefinite Direction of Flow <u>Ferry</u> Ferry  $\overline{}$ Revetmen Water Tan **[---+|**↓ Foot Bridge Trigonometrical Station Secondary B. M. Bench Mark Traverse Point Minor Leveling Point Spot Height ---- Boundary of Land Use [[t]] <u>F</u>] Cemetery ---- Levee between Fields A≯ Forest -an Thicket a Scattered Tree Scrub Ш ጥ Palms Plantation  $\sim$ Orchard Ó Swamp  $\bigcirc$ Seasonal Swamp Sand or Mud Cultivated Land Boundary . . ..... ----- Standard Contour Line Index Contour Line Supplementary 1/2 Interval Contour Line Depression Slope որապորհատարին Cliff Outorop Rock +++++++ Boundary District

JAPAN INTERNATIONAL COOPERATION AGENCY

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# THE SONDU RIVER MULTIPURPOSE DEVELOPMENT PROJECT

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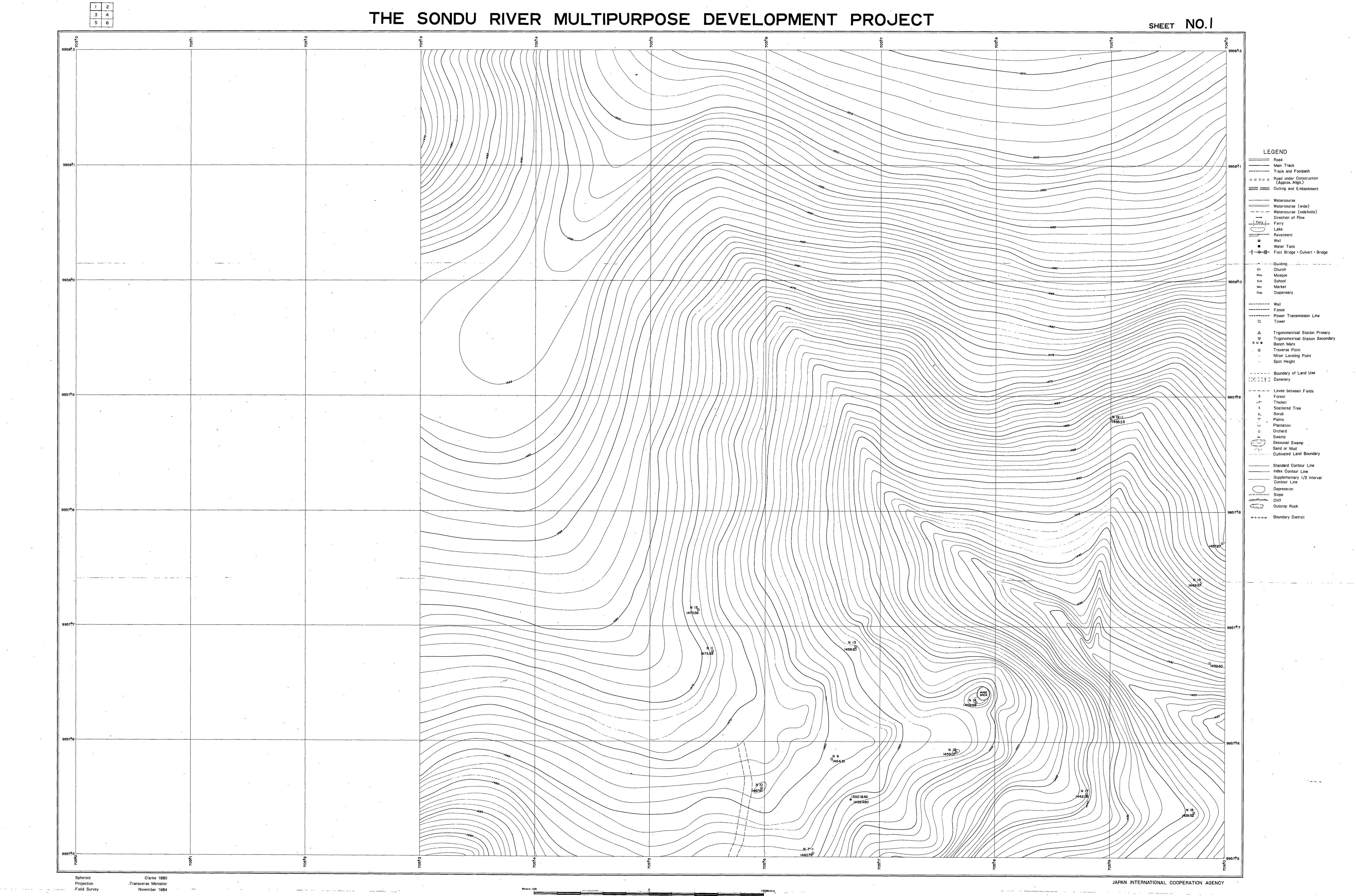
JAPAN INTERNATIONAL COOPERATION AGENCY

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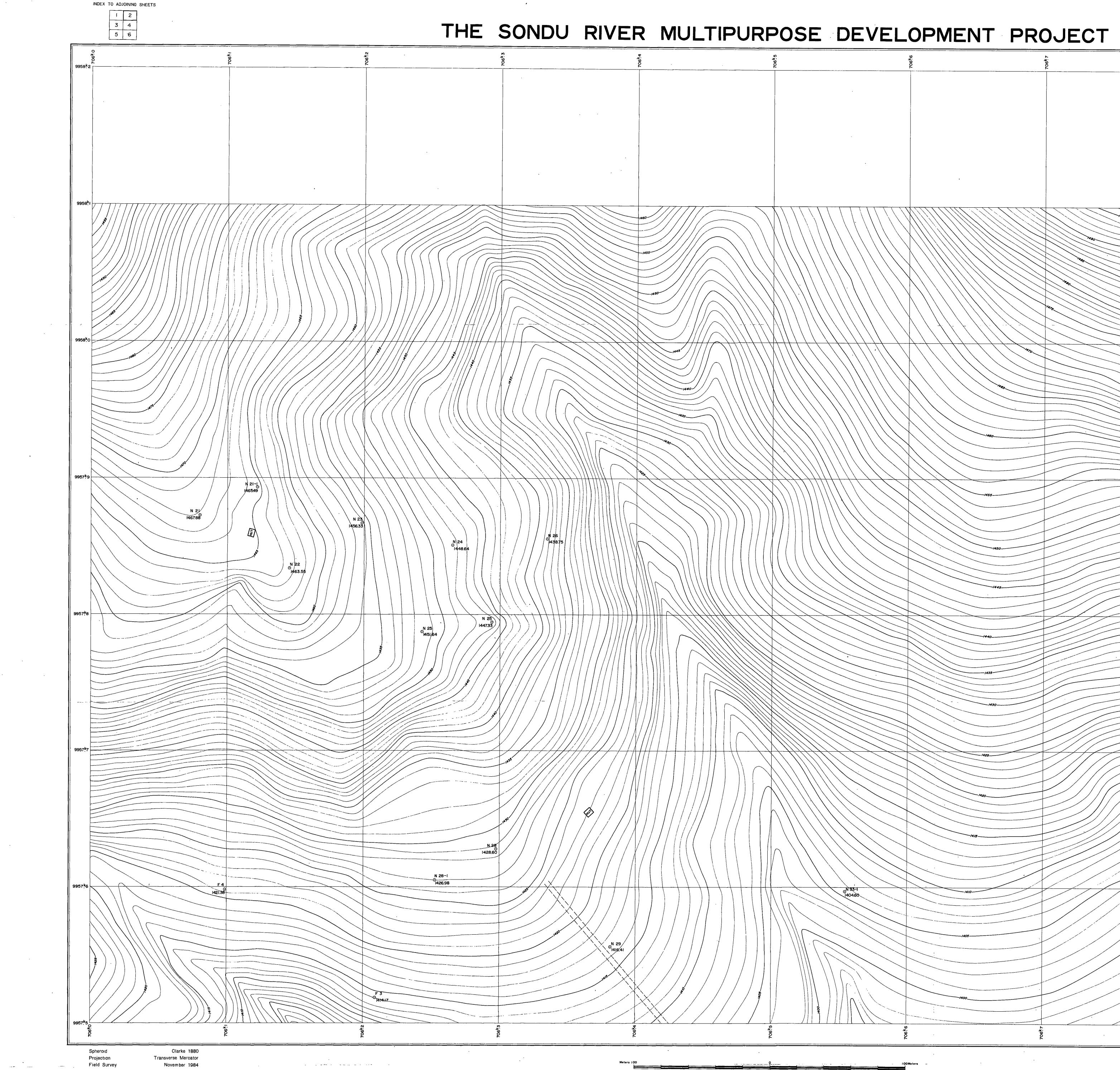
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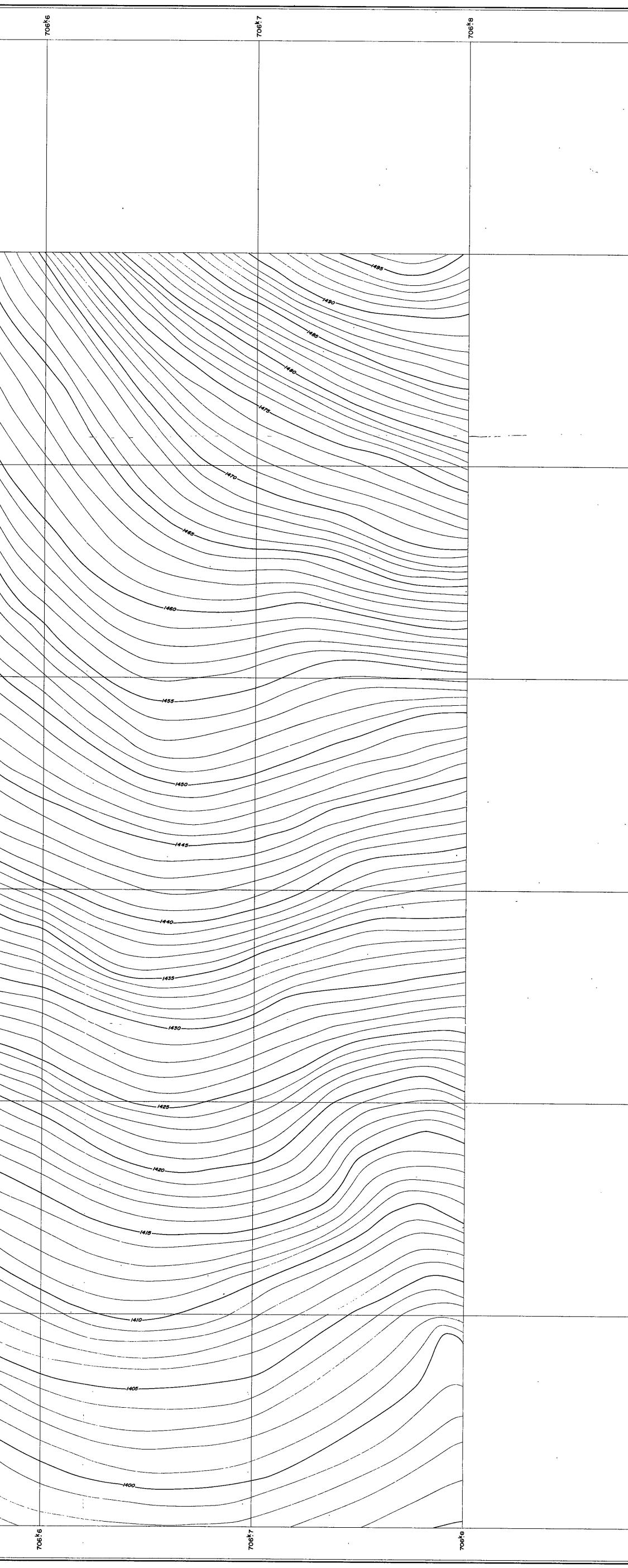
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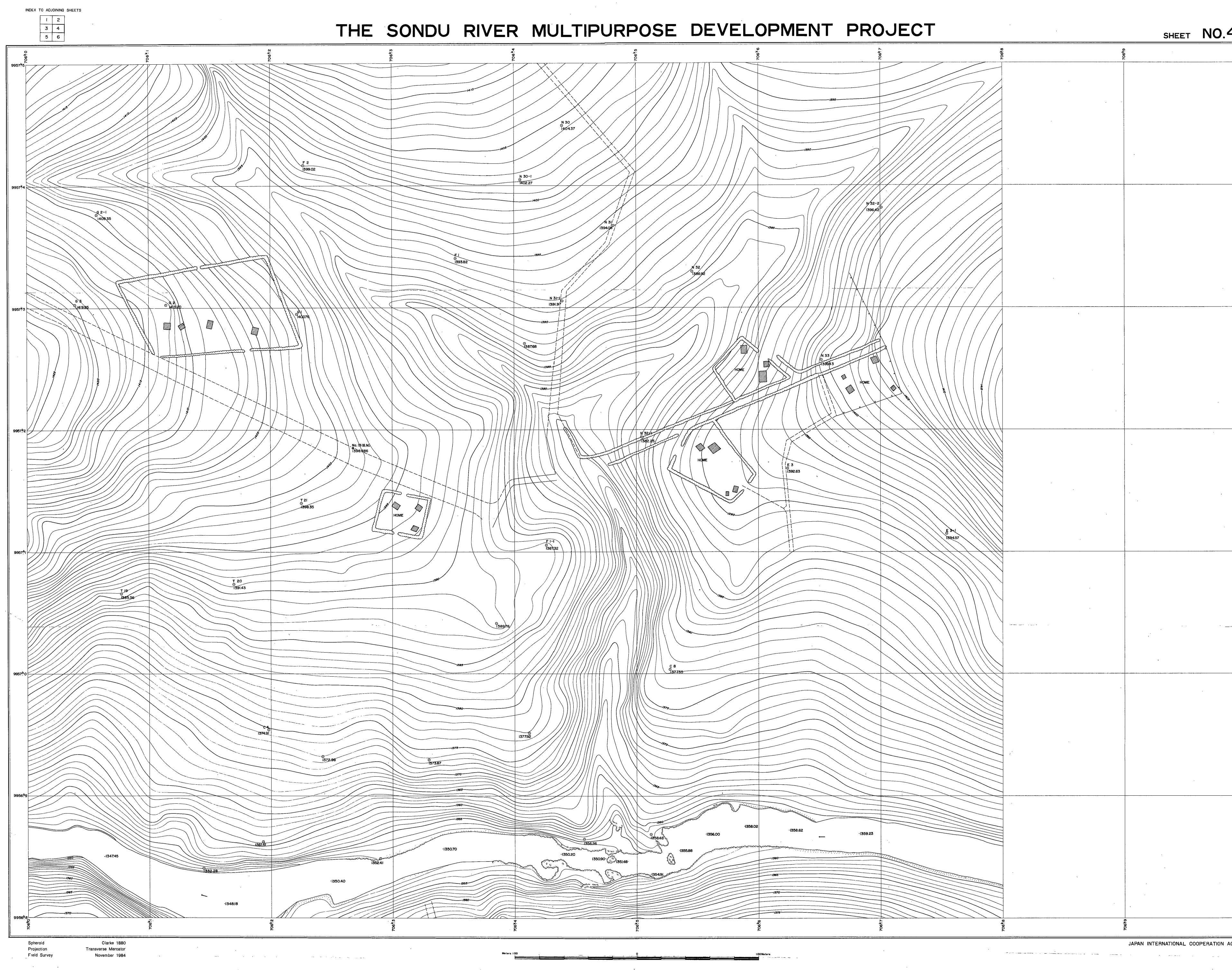
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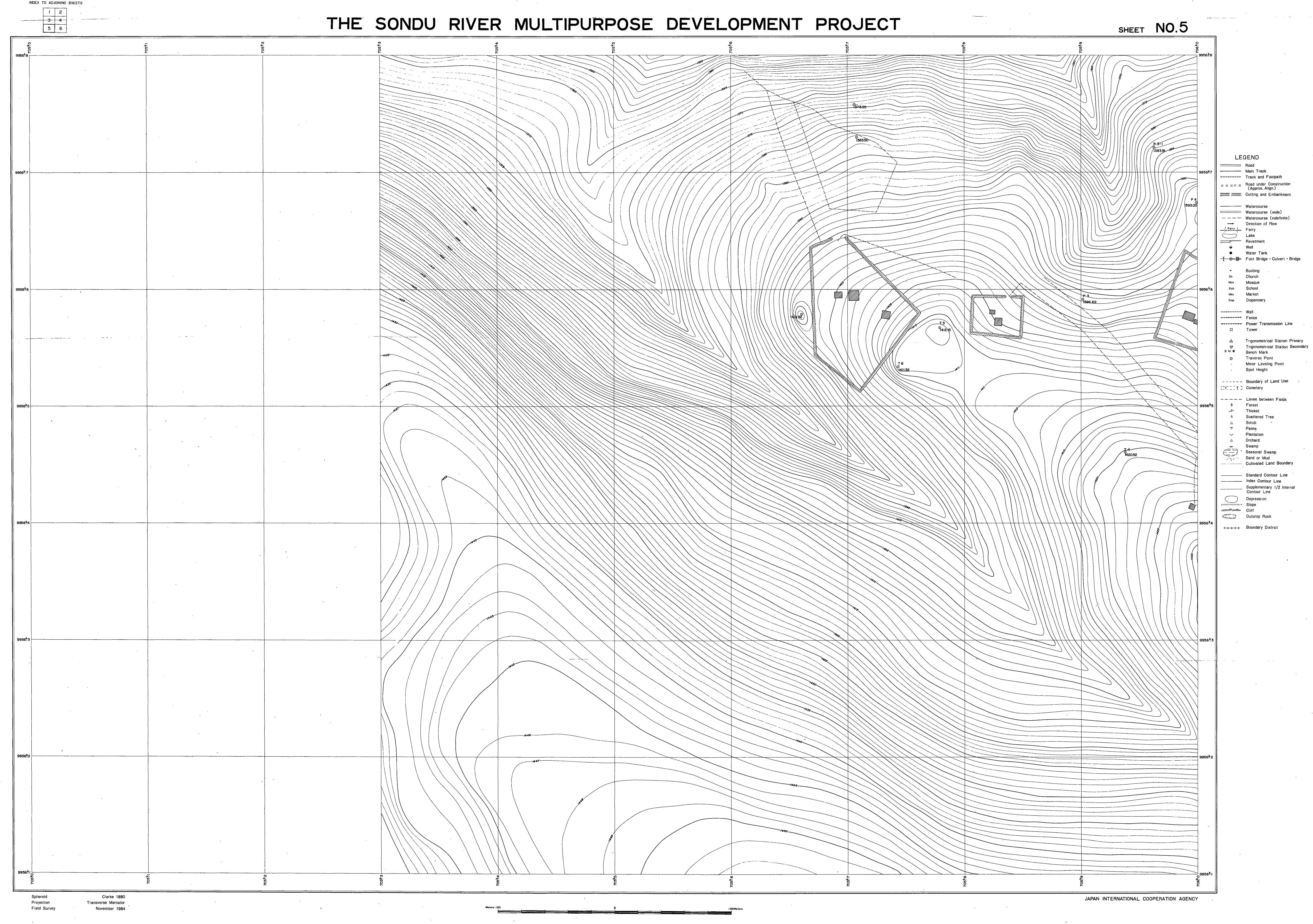
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				I F(	GEND
			k-		Road Main Track
			9957 <mark>*</mark> 4		Track and Footpath
					Road under Construction (Approx. Align.) Cutting and Embankment
					Watercourse
					Watercourse (wide) Watercourse (indefinite) Direction of Flow
					Ferry Lake
				•	Revetment Well
				_ ↓₩=∭=	Water Tank Foot Bridge • Culvert • Bridge
				- Ch	Building
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				۵	Trigonometrical Station Primary
				♥ B. M. ©	Trigonometrical Station Secondary Bench Mark Traverse Point
				⊙	Fraverse Point Minor Leveling Point Spot Height
					Boundary of Land Use
				(2+2 2 2 ± 2	Cemetery
		· · · · · ·	9957 <u></u> k 2	 ?	Levee between Fields Forest
	· ·			а 1	Thicket Scattered Tree Scrub
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				می <i>ند</i>	Orchard Swamp
					Seasonal Swamp Sand or Mud Cultivated Land Boundary
		,			Standard Contour Line
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			9957 <u></u> *1	+++++++++++++++++++++++++++++++++++++++	Boundary District
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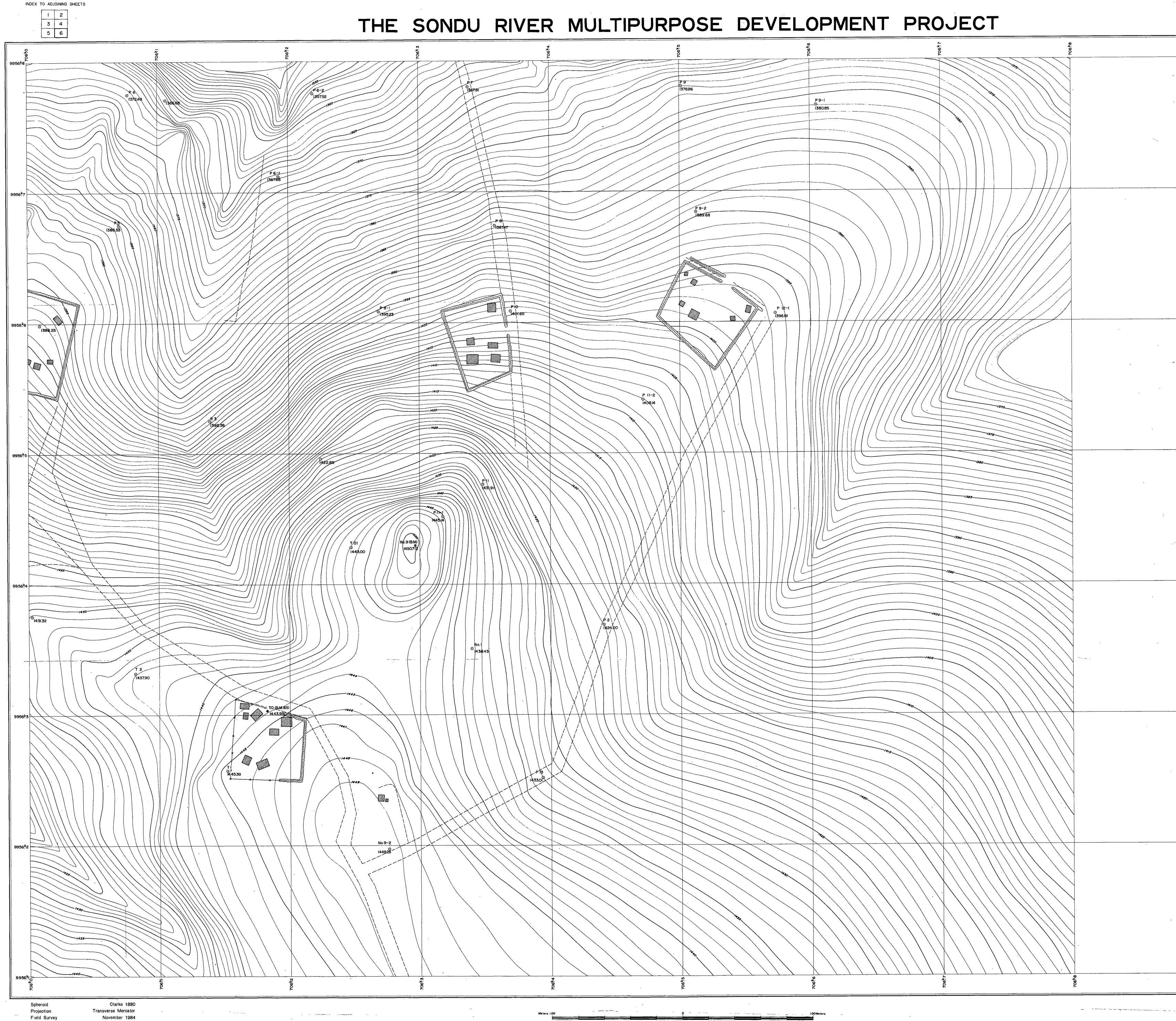
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A Trigonometrical Station Primary Supplementary 1/2 Interval

SCALE I : 1,000 (HEIGHTS IN METRES)



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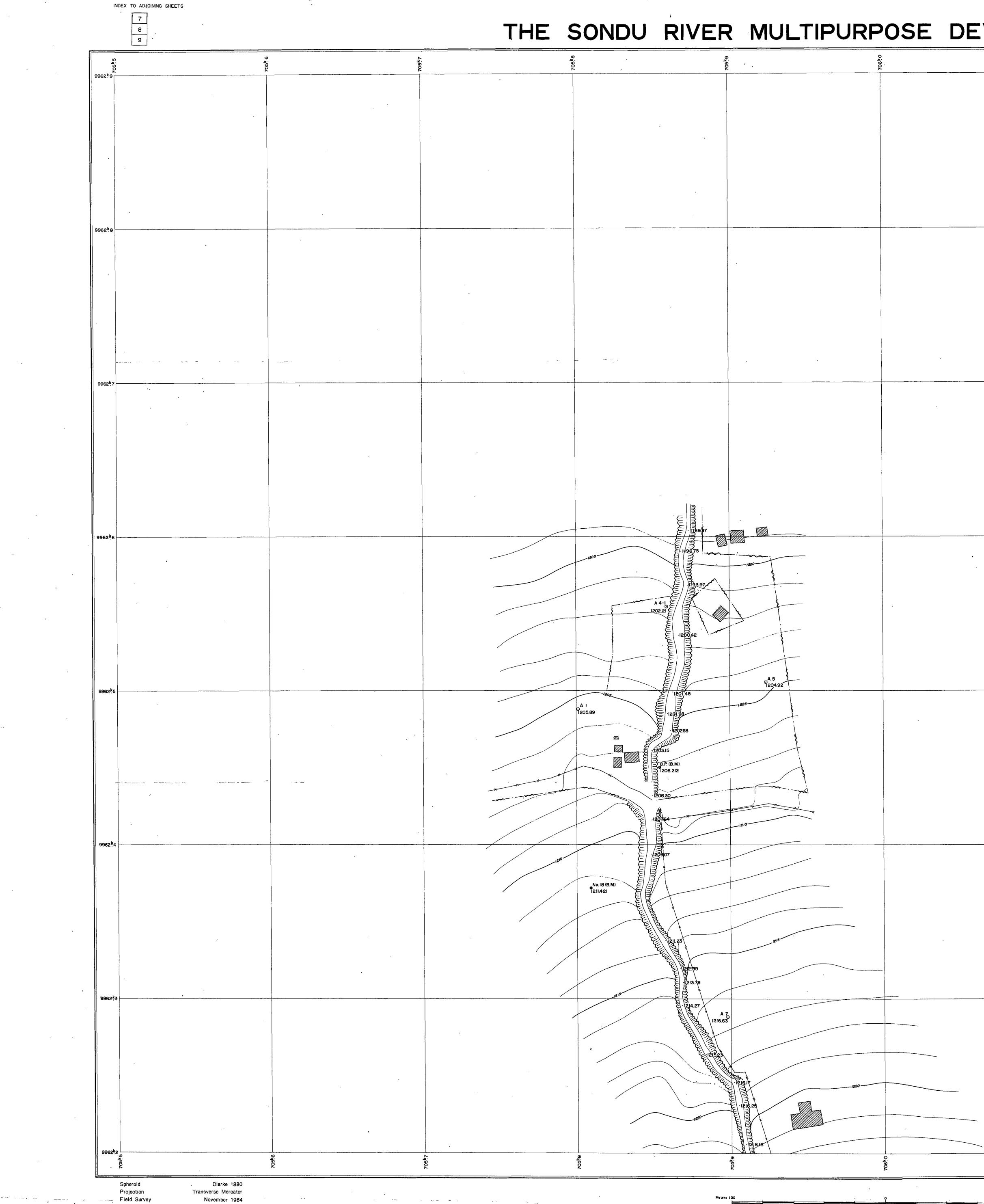
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				LEGEND ————— Road
			9956 ^k .7	Main Track Track and Footpath
				= = = = Road under Construction (Approx. Align.)
				— — — Watercourse (indefinite) — Direction of Flow
				ForryFerry Lake Revetment
				<ul><li>Well</li><li>Water Tank</li></ul>
				- Foot Bridge • Culvert • Bridge ■ Building
			-	Ch Church Mos Mosque
		·	9956 <u>*</u> 6	Sch School Mkt Market Disp Dispensary
				Wall
				Fence 
				△ Trigonometrical Station Primary
				<ul> <li>Trigonometrical Station Secondary</li> <li>B M Ø Bench Mark</li> <li>Traverse Point</li> </ul>
				Minor Leveling Point Spot Height
				Boundary of Land Use
-				Levee between Fields
			9956 ^k 5	Forest     Scattered Tree
				ム Scrub ① Palms
				<ul> <li>✓ - Plantation</li> <li>♂ Orchard</li> <li>→ Swamp</li> </ul>
			•	Seasonal Swamp Sand or Muð
				Cultivated Land Boundary     Standard Contour Line
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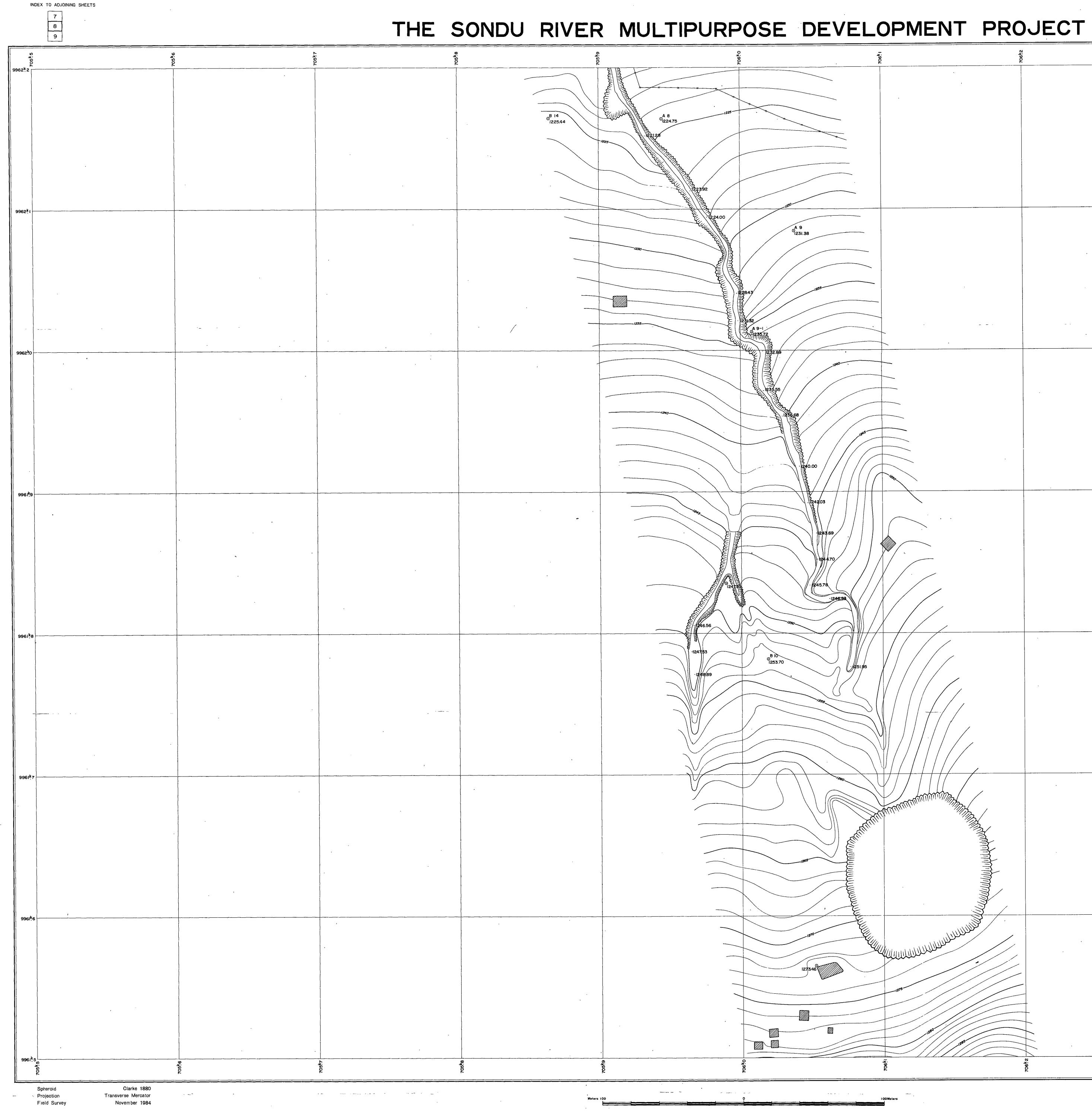
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						LEGEND Road
						Main Track Track and Footpath = = = = Road under Construction (Approx Align)
						(Approx. Align.)
						Watercourse (wide)
r I						———— Watercourse (indefinite) —— Direction of Flow — <u>(Ferry</u> ) Ferry
						Lake Revetment Well
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					9962 ^k 7	sch School , Mkt Market
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						Fence Power Transmission Line Tower
						<ul> <li>△ Trigonometrical Station Primary</li> <li>♥ Trigonometrical Station Secondary</li> </ul>
						B.M. Bench Mark O Traverse Point - Minor Leveling Point
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					ч. 	Swamp Seasonal Swamp Sand or Mud Cultivated Land Boundary
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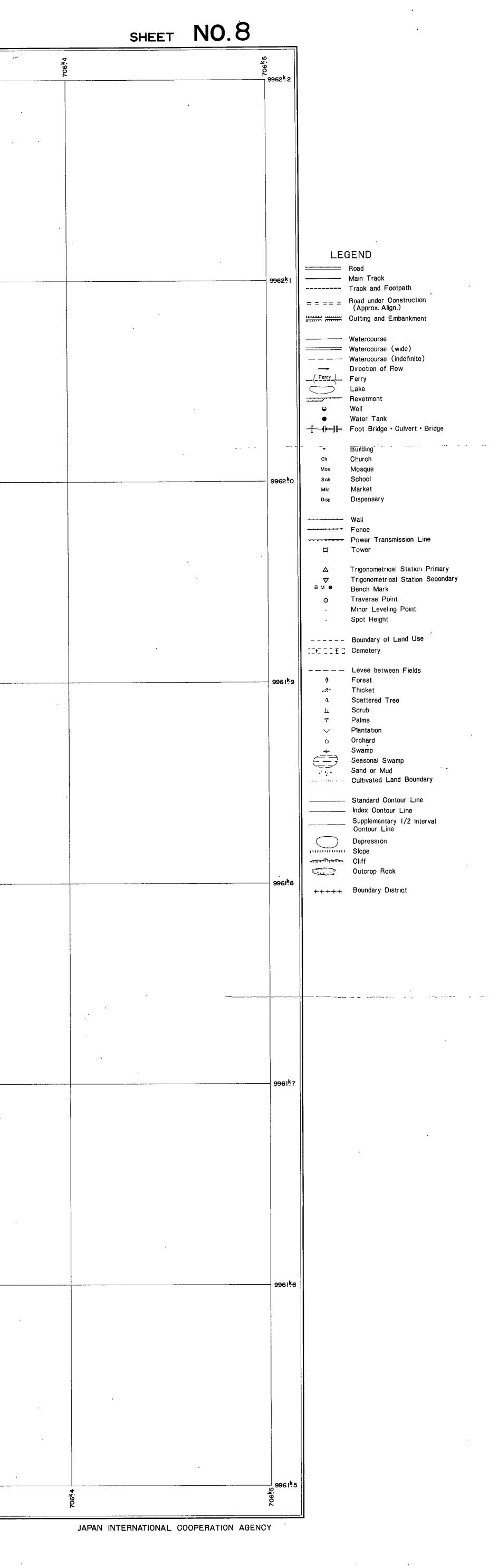
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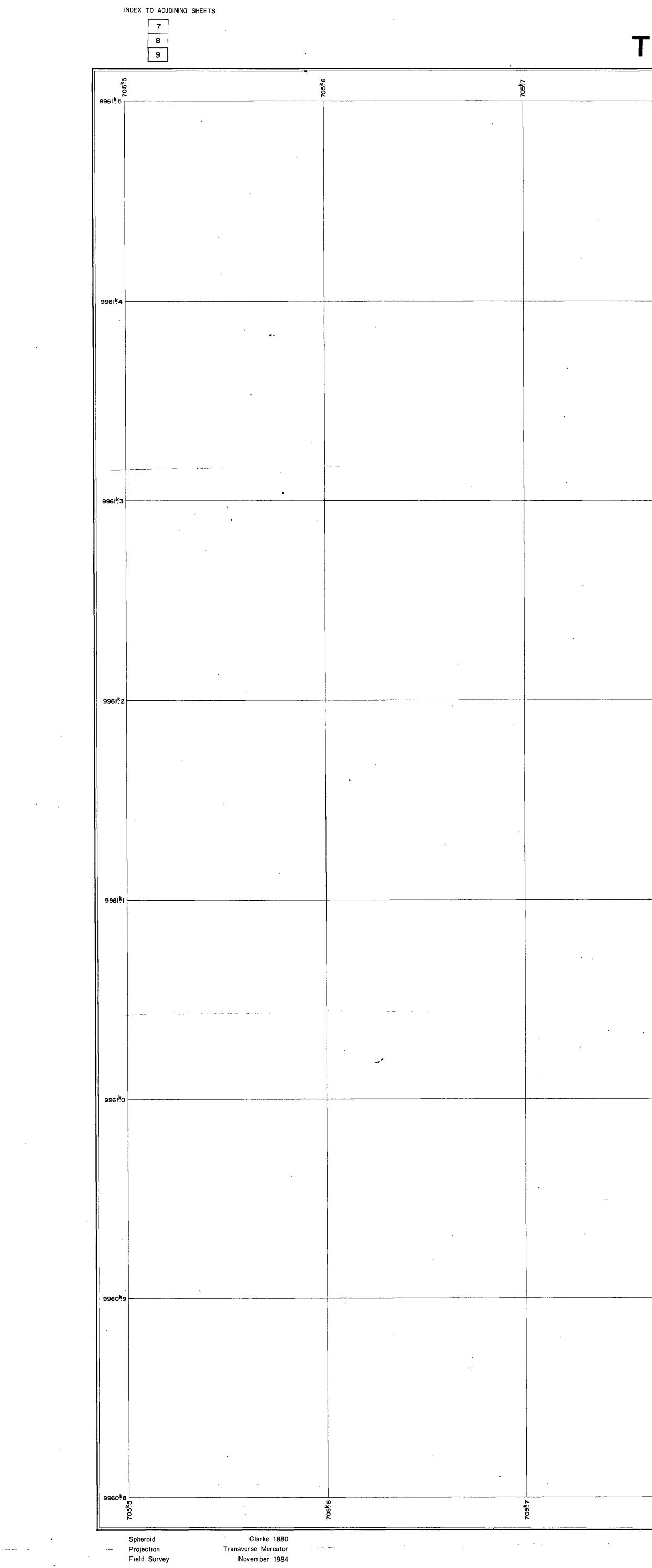
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SCALE 1:1,000 (HEIGHTS IN METRES)

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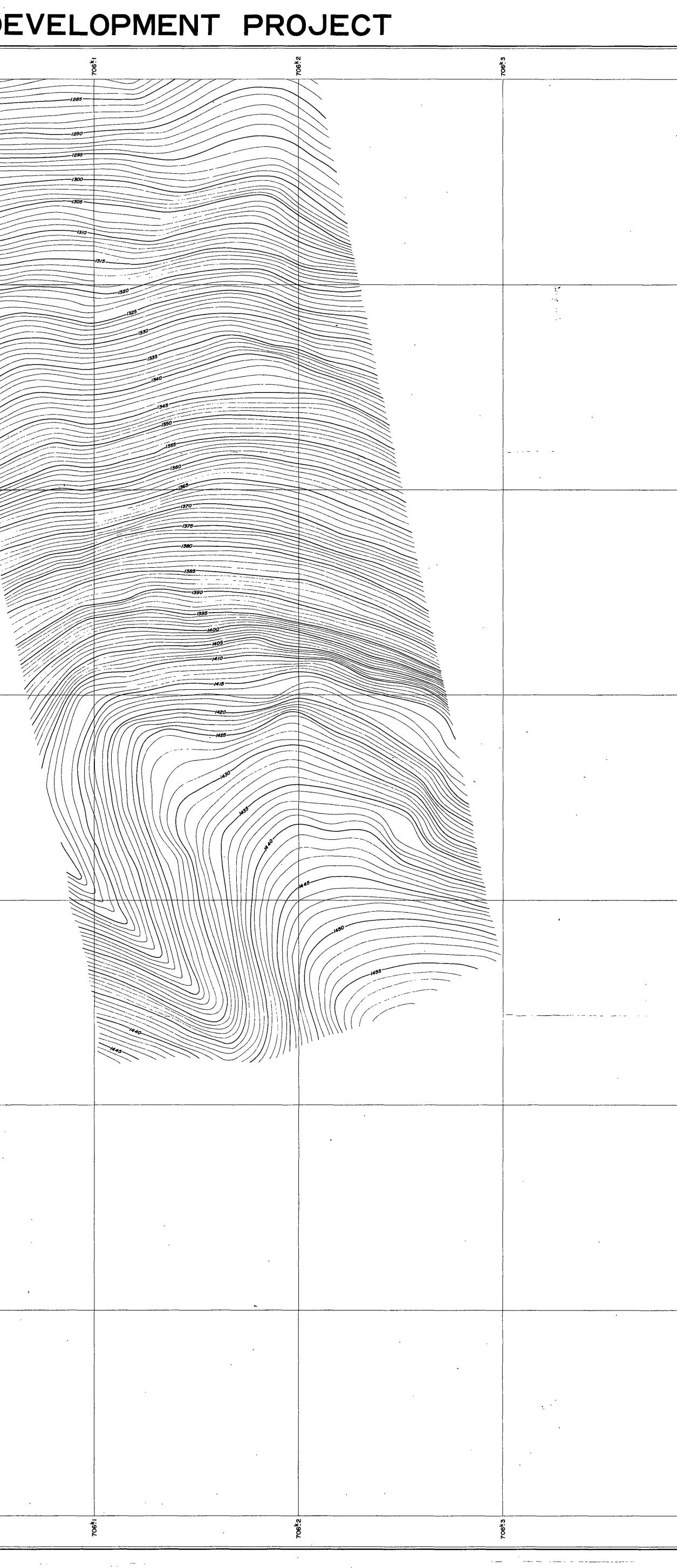
SCALE I : 1,000 (HEIGHTS IN METRES)

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	SHEET NO.9		-
, 		9961 <u>k</u> 5	
			LEGEND
	· · · · · · · · · · · · · · · · · · ·	9961 <u>k</u> 4	Road Main Track Track and Footpath Road under Construction
			= = = = Road under Construction (Approx. Align.)
			Watercourse (wide) ————— Watercourse (indefinite) ————————————————————————————————————
			Lake Revetment Well Water Tank
			- → ↓ Foot Bridge • Culvert • Bridge •, Building ch Church
		9961 <u>k</u> 3	Mos Mosque Sch School Mkt Market Disp Dispensary
			Wall Fence Power Transmission Line
			ロー Tower A Trigonometrical Station Primary マー Trigonometrical Station Secondary
			В м. © Bench Mark O Traverse Point Minor Leveling Point Spot Height
			Boundary of Land Use
		9961 <u></u> *2	Levee between Fields
			L Sorub
·			Swamp Seasonal Swamp Sand or Mud Cultivated Land Boundary
			Standard Contour Line     Index Contour Line     Supplementary I/2 Interval     Contour Line
			Depression Slope Cliff Outcrop Rock
		9961 <u>k</u> 1	+++++++ Boundary District
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