APPENDIX-2

Breakdown of Operation Cost

TAT SATISFACE

2. GEOLOGY (Inc. Surveying, Diamond drilling)

							1					
P	кешагкз	\$500/month 200 " 150 "		Bit, rod etc.								\$0.66/t ore
6	s/.	18.0 9.6	63.6	20.0	35.0	20.0			-			148.5
Amount (\$1,000)	*	1 1 1	,	1.1	,	t in the						
Amour	Total	18.0 9.6 36.0	63.6	20.0	35.0	50.0						148.6
2	کن ک	3 20 4	2.2	ન ન		н						
	Cuit	mam #		lot		tot						
140.00	Trem.	Labor Cost Staff Employee Worker	Labor cost total	Material Cost Equipment parts Others	Material cost total	Expenses						GEOLOGY TOTAL
		3		(3)		8						
e le constant	Kemarks	\$500/month 200 " 150 "		556 g/t, AN-FO, Dinamite	7/8" x 1.0 m, 1.6 m,	2.5 e/t	Polypipe, rubber	hose etc.		13.2 kWh/t Outside repair		\$8.91/t ore
(0(s/.	54.0 26.4 304.2	384.6	155.1	144.2	152.0 101.3 43.5 10.0	20.0	30.0 10.0 50.0 50.0	858.0	298.1 200.0 18.0 50.0	566.1	,808.7
Amount (\$1,000)	w	F I I	1	1 :	1 1	173.8 23.3		11111	197.1	1 1 1 1	ı	197.1 1,808.7
Amor	Total	54.0 26.4	384.6		144.2		20.0	30.0 5.0 10.0 50.0	1,055.1	298.1 200.0 18.0 50.0	566.1	2,005.8
į	ξ: Or	111	189	125	1,211	578	-1 r-4	ਜਕਸਸੰਜ		2,981		
ia L		men #			5 X	7 to : : :	: =	P F F E E		MWh lot "		
	וגפווו	Lebor Cost Staff Employee Worker	Labor cost total	Material Cost Explosive	Fuse, detonator Rod	Fuel Lubricants Equipment parts Tire, tube	Pipe, hose etc.	Steel products Steel pipe Rail etc. Safety fixtures Miscellaneous	Material cost total	Expenses Power cost Maintenance cost Repair cost Miscellancous	Expenses total	MINING TOTAL
		3	٠	(3)		-				(§)		

3. CONCENTRATOR (inc. Talling pond, Assay laboratory)

4. POWER PLANT

ı											٠						1
	þ	нешетка	\$500/month 200 " 150 "		0.3 e/kwh	·		\$3,000/month, Outside monein	onere i chan		Unit power cost \$1,449,500 =	Power plant cost allocated to each department				:	
	(00	s/.	6.00 0.00	31.8	1,152.9	15.0	1,317.3	36.0	10.0	46.0	Juit power cost \$1,449,	lant cost : ent	·				1,395.1
	Amount (\$1,000)	45		'	1 1 3	, i	54.4	ı		ı	Unit pos	Power plant department			÷		54.4
	Amo	Total	ခ စ ရှိ ဝ ရ	31.8	1,152.9	15.0	1,371.7	36.0	10.0	46.0	Note: 1)	8		:	٠.	•	1,449.5
)))	্লক ০	141	4,367	t ret ret		≓	H								
٠	7	Umit	man #		\$ 5 t	= =		lot	=								AL
	74.	Trem	Labor Cost Staff Employee	Labor cost total	Material Cost Fuel Lubricants	Tools etc Others	Material cost total	Expenses Repair cost	Others	Expenses total					÷	1	POWER PLANT TOTAL
	E C	Kemarks	\$500/month \$200 "		(2) 34", 1,200 g/t Rubber, metal liner	20 Ltd " 300 "	4,000 :: 145 :: ::				37.3 kWh/t Outside repair						\$8.61/t ore
	ô	s/.	30.08	127.8	236.3	35.9	-	46.8 29.2 4.2	622.7		840.2	864.2			 		1,614.7
	Amount (\$1,000)	s»	1 1 1	1	. 54.5 1 G . 5) }	52.	3.4 126.4 12.6	321.5		1 1	1		٠.			321.5
	Amo	Total	31.2	127.8	236.8	35.0	92:1	46.8 180.6 42.0	944.2		840.2 24.0	864.2					1,936.2
	į	ر رو رو	13.5	SS	270	9 63 63	33.	 -			8,402			٠.			
	1	Onit	เมลเม ห		, j,	·= ,= =		lot			MWh)TAL
		Irem	Labor Cost Staff Employee	Labor cost total	Material Cost Ball Liner	KAX Copper sulphate	Frother	rrocculant Lubricants Equipment parts Others	Material cost total	Expenses	Power cost Repair cost	Expenses total		- W			CONCENTRATOR TOTAL
			(3)		8					8					:		

5. MAINTENANCE (Repair shop, Water supply, Power distribution)

6. CENTRAL OFFICE (Administration)

		1,714	į	Amor	ount (\$1,000)	(00	ş	74			Amo	Amount (\$1,000)	(00	r	.
	Item		¥.13	Total	*	s/.	Kemarks	Iten))	Total	\$	S/S	Kemarks	
3	Labor Cost						7 a	(1) Labor Cost				٠.			
	Staff Employee Worker	man :	30 22 23	12.0	111	12.0	\$500/month 200 " 150 "	Mine manager Asst. Mine manager Staff	man "		24.0 12.0 12.0	E F 1	24.0 12.0	\$2,800/month 1,000 " 500 "	
	Labor cost total		37	66.0	'	66.0		Employee Worker	= =	12.2	21.6	1 1	21.6	200 " 150 "	
· (3)	Material Cost							Sub total		23	86.4	i	86.4		
	Tools Supplies	to =	нн	0.0	1,1	0.0 0.0		Expatriate	ua w	63	147.6	147.6	1	\$4,100/month	
	Lubricants Steel product	E E	++	0.4	1 1	2.4		Labor cost total		26	234.0	147.6	86.4		
	Equipment parts	ŧ	ĭ	8.0	•	8.0		(2) Material Cost						-	
	Material cost-total			31.0	•	31.0		Office supplies	o :	F4 7	2.0	. 1	20	\$200/man	
(E)	Expenses							ruel, indricants Others	=	rd rd	2.0	t 1	2.0		
	Power cost Repair cost	MWh lot	52	57.9	1 1	57.9	2.6 kWh/t Outside repair	Material cost total			20.2	i	20.2	-	
	Others	‡	1	0.7	. •	7.0	10%	(3) Expenses			٠.				
	Expenses total	:	:	74.9	; •	74.9			ww.	9	9	1 6	9,0	0.3 kWh/t	
								Communication	Q =	4 =4	12.0	2 I	12.0	\$1,000/month	
			,					Road expense Others	=	H	16.0	1 t	16.0	Sayan - Churin 20%	
								Expenses total			95.9	9.0	86.9		
												٠			
					÷								-		
														:	
								-							
				· · · · · · · · · · · · · · · · · · ·											
	MAINTENANCE TOTAL	ΑΓ		171.9	,	171.9	\$0.76/t ore	CENTRAL OFFICE TOTAL	TOTAL		350.1	156.6	193.5	\$1.56/t ore	

7. WELFARE FACILITIES

8. LIMA HEAD OFFICE

	Thom:	101	į	Amc	Amount (\$1,000)	(00)	rojan are D		į	TIME	! {	Amor	Amount (\$1,000)	0)	C.
			5	Total	•	s/.	SATERION		11014		3	Total	s	S/.	Wenter
3	Labor Cost							3	Labor Cost						
	Staff Employee Worker	man *	22 27	36.0 52.8 8.6		36.0 52.8 48.6	\$500/month 200 " 150 "		General manager Staff Employee	man *	H 01 4	24.0 12.0 9.6	1 1 1	24.0 12.0	\$2,000/month 500 " 200 "
	Labor cost total		52	137.4	'	137.4			Worker	<u>.</u>	4 ;	7.2	•	7.2	156 *
<u>3</u>	Material Cost	:	,	;	1	;			Sub total Expatriate	men	# #	52.8 49.2	1 6	25.8	\$4.100/month
	Medicina mat.	jo =	4 ~	15.0	' , '	1 5	school		Labor cost total			102.0	49.2	52.8	
	Mis. materials Others	t	रतन	10.0	1 1	70.0		8	Material Cost						
	Material cost total			43.0		43.0			Office supplies Fuel etc.	to:	нн	5.0	1 1	12.0	\$1,000/man
ල	Expenses								Material cost total			17.0	,	17.0	
	Power cost Repair cost	MWh lot	2,102	210.2	1 1	210.2	9.3 kWh/t 300 houses x \$20	(3)	Expenses						
	Expenses total			216.2	'	2.16.2			Office rental	lot 1	-1-	15.0	ì i	15.0	300 m ² x \$50
					÷		-		Travel expenses Communication		1 1-1 1-	15.0	. e. l	12.0	Local, overseas Telenhone, teler
•			, , , , , , , , , , , , , , , , , , , 						Bank charges Remuneration	¥ E	-1 -1	10 0	1 I	10.0	\$3.000 x 2. Lawver
								•	Various charges Miscellaneous	* =	F4 F4	12.0	1.1	12.0	etc. 5%
									Expenses total			77.0	3.0	74.0	
			: '					٠				. :	-		
					•										
: .		· 					•								
				٠.			*								
÷ "			÷.				•				-				
	WELFARE FACILITIES TOTAL	ES TOT	A.L.	396.6	'	396.6	\$1.76/t ore		LIMA HEAD OFFICE TOTAL	TOTAL		196.0	52.2	143.8	\$0.87/t ore
										1	1				

9. CONCENTRATE HAULING

11. TAX, COMMISSION

e	Yenary:	256.6 FOB x 2%	96.2 \$1.5/t	352.8 \$1.57/t ore
(00)	s/.	256.6	36.2	352.8
Amount (\$1,000)	in-	1	ı	ı
Amoi	Total \$ S/.	256.6	36.2	352.8
į	3 3	ř	t 64,100	
į	Oille	lot	+	TOTAL
Thomas	11611	1) Tax	(2) Commission	TAX, COMMISSION TOTAL
- Land	Wellian No.	86.3 Mine - Callao, \$18/wt (1)	=	\$5.80/t ore
Amount (\$1,000)	\$ 5/.	- 86.3	- 1,173.2	- 1,259.5 \$5.80/t ore
Атоп	Total	86.3	1,173.2	1,259.5
1	<u>بر</u>	4,794	" 65,181 1,173.2	
	,	wt		
1	11511	(1) Pb-Concentrate	(2) Zn-Concentrate	HAULING TOTAL

10. CONCENTRATE SHIP LOADING

1 1	vemana	464.1 \$6.7/wt, Port, Conveyor etc.	34.6 \$0.5/wt	498.7 \$2.22/t ore
(00)	5/.	464.1	34.6	498.7
Amount (\$1,000)	**	,	•	,
	Total	464.1	34.6	498.7
2	2	69,275	69,275	
1	Office	wt	=	'AL
1.041	11611	Loading Expenses	Storage Expenses	SHIP LOADING TOTAL
		3	8	

APPENDIX-3

Breakdown of Additional Investment and Replacement Cost

1. ADDITIONAL INVESTMENT

(\$1,000)

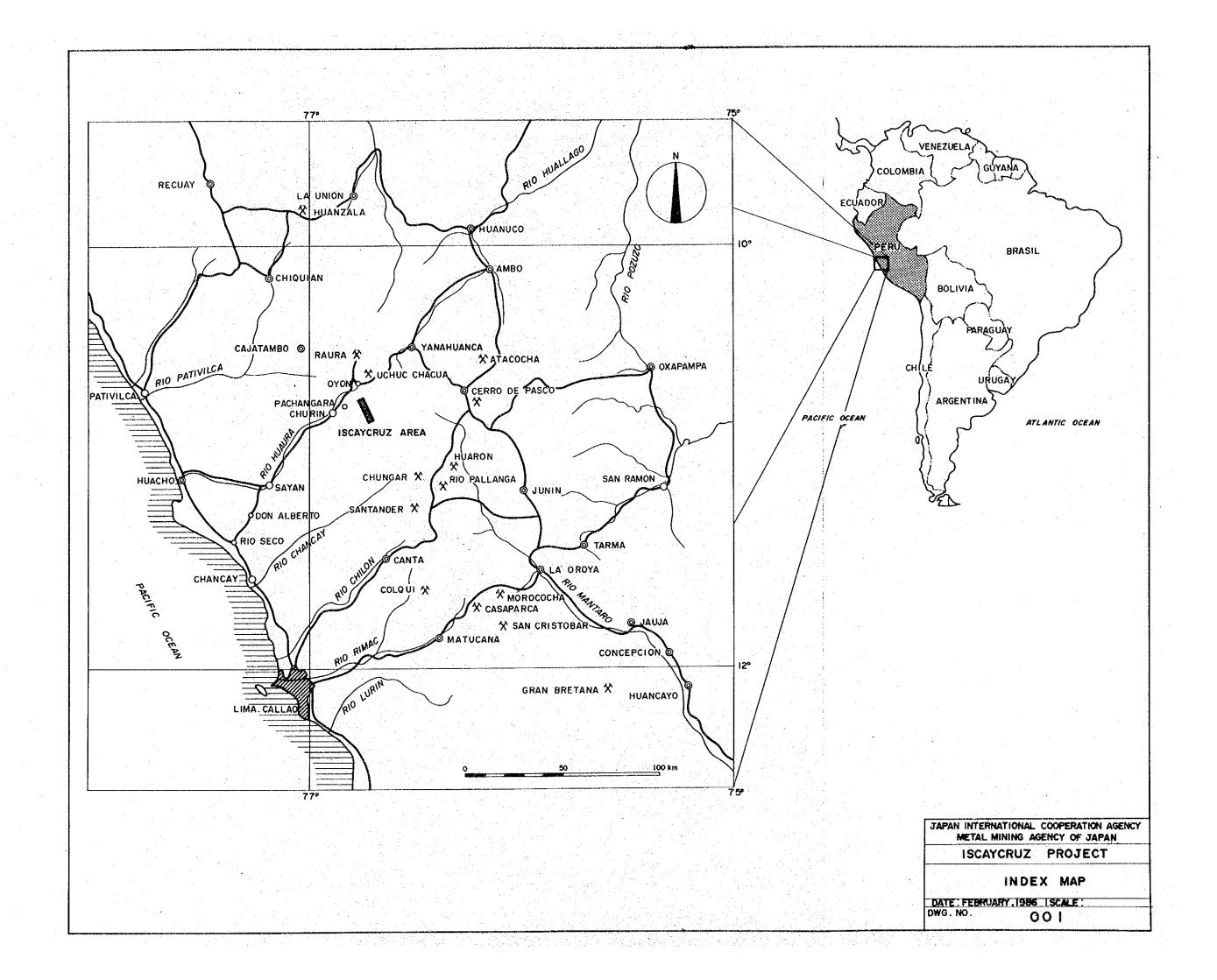
Item	2	3	4	5	6	7	8	9	Total
Tailing pond: Civil work	<u> </u>	_ ;	-:	150	150	160	_		460
Pump etc.		-	· <u></u> .	- ·	-	15	: -		15
Total	<u> </u>	<u> </u>	· ·	150	150	175			475

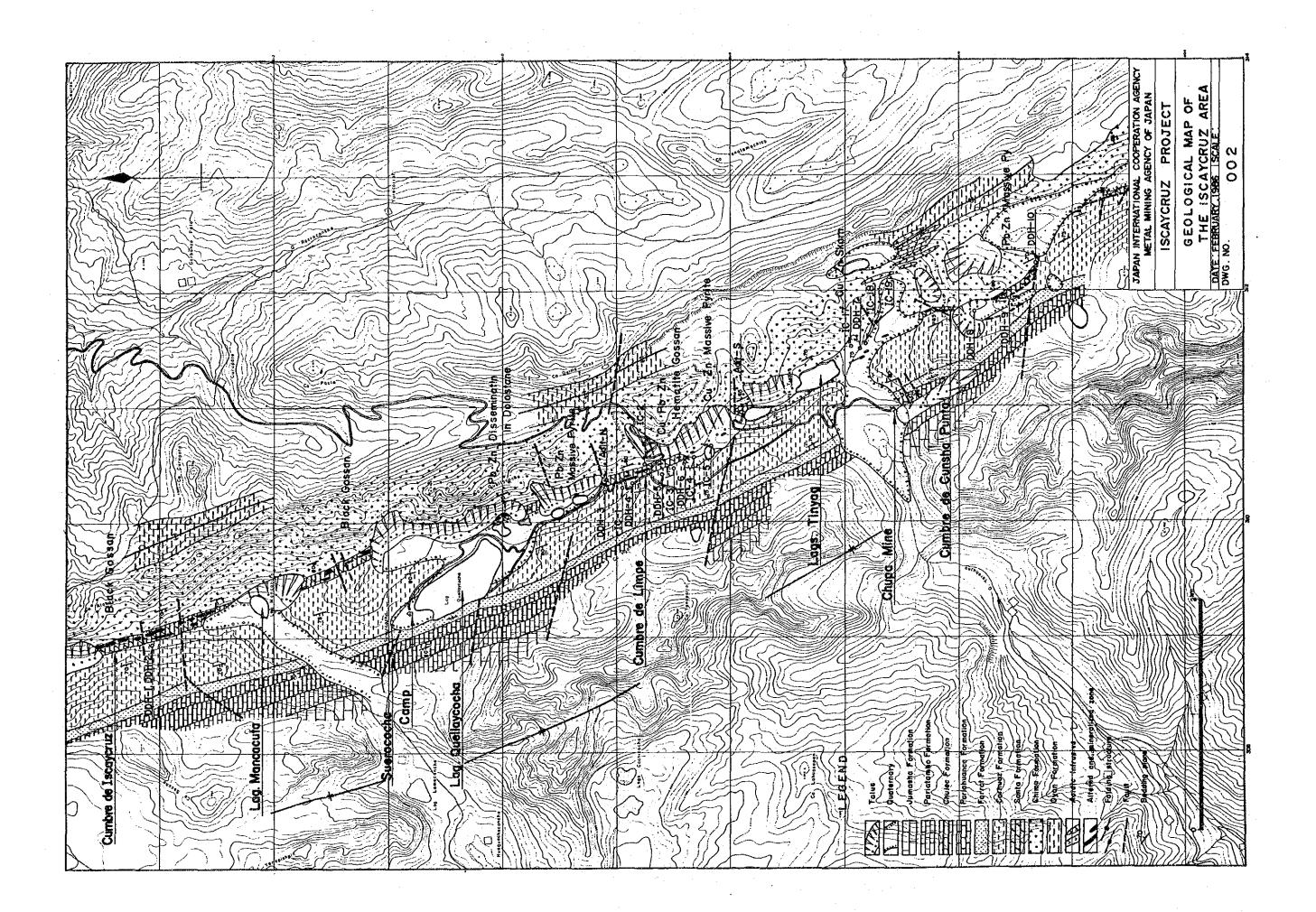
2. REPLACEMENT COST

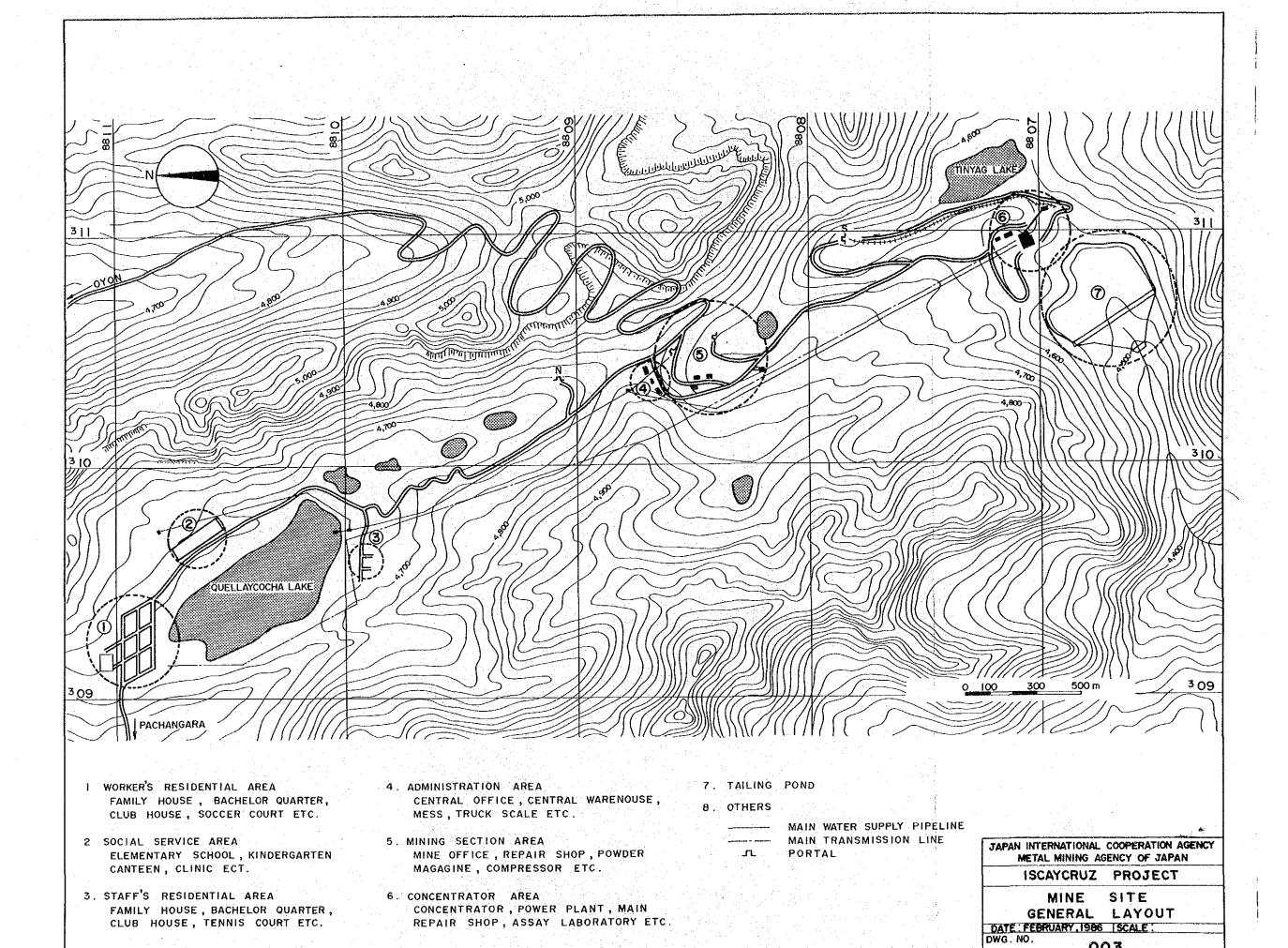
(\$1,000)

			·					• • • •	1,000/
	2	3	4	5	6	7	8	9	Total
230	-	.—	_	230	230	230	_	-	690
190	-				190	190			380
4					24	24			48
4	<u> </u>			·	(3)	12	. —	· · ·	24
90			· —	90		90			180
9	_	~~	_	_	45	(5)			90
19	_	_	19		19		19		57
20	20	_	20		20	— .	20	_	80
178	_	_	_ : .	178	-	. –	_		178
134			134	_		· _	. —	_	134
108		. —			108			_	108
	20		173	498	648	591	39	_	1,969
						,			
19	-	19		19	_	19		_	5 7
20	_		20	_	20		20		60
62	-	-		62	_		-	_	62
134	· _	<u> </u>	_	134		—	·	-	134
60		_	-	-	60		_	_	60
20	· -	-	-	-	20	_	-		20
4 0		_		40	_	_	-	_	40
		19	20	255	100	19	20	_	433
				·					
, i	20	19	193	753	748	610	59	_	2,402
	230 190 4 4 90 9 19 20 178 134 108	230 - 190 - 4 - 90 - 9 - 19 - 20 178 - 134 - 108 - 20 - 62 - 134 - 60 - 20 - 40 -	230 190 4 4	230	230	230	230	230	2 3 4 5 6 7 8 9 230

DRAWINGS





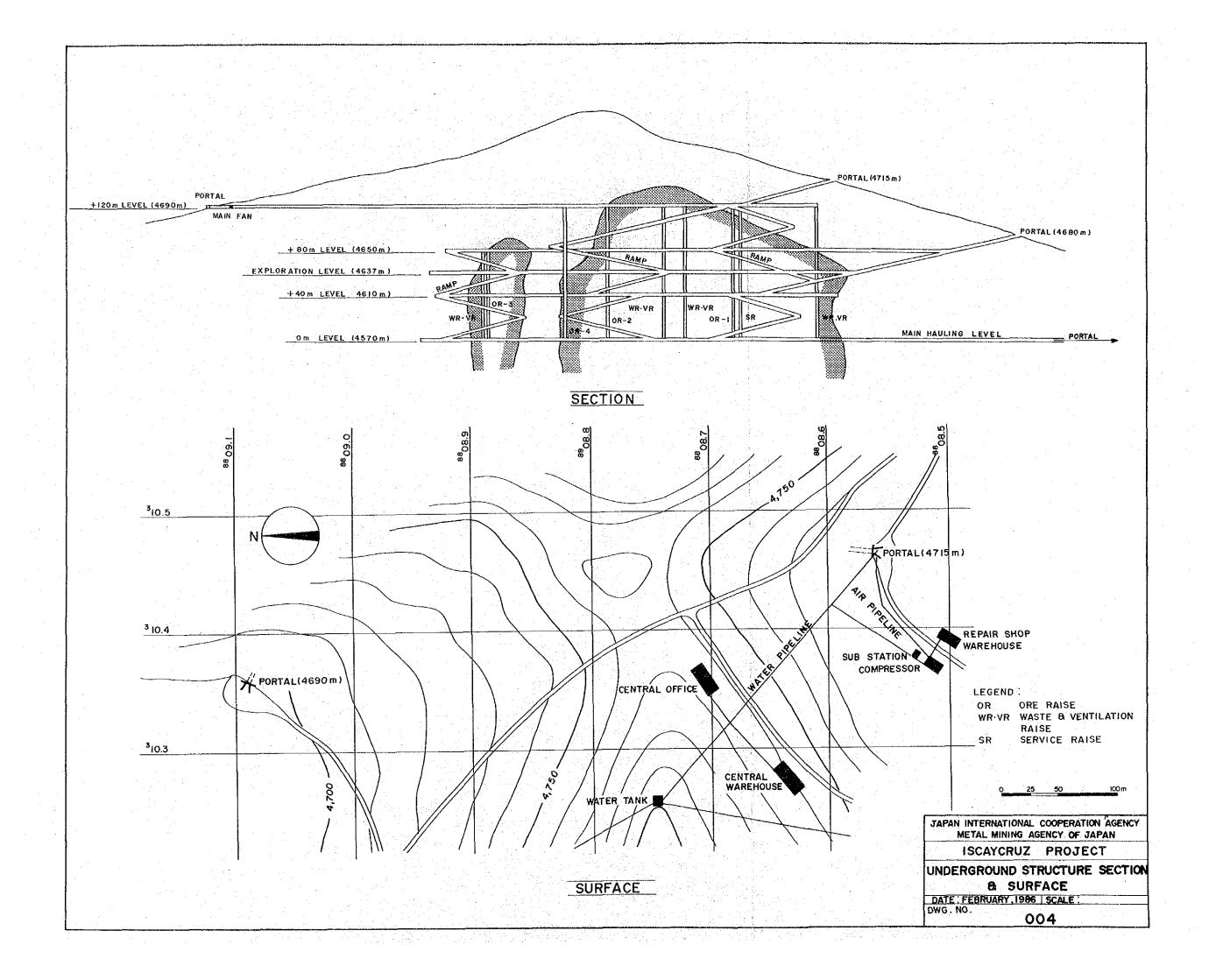


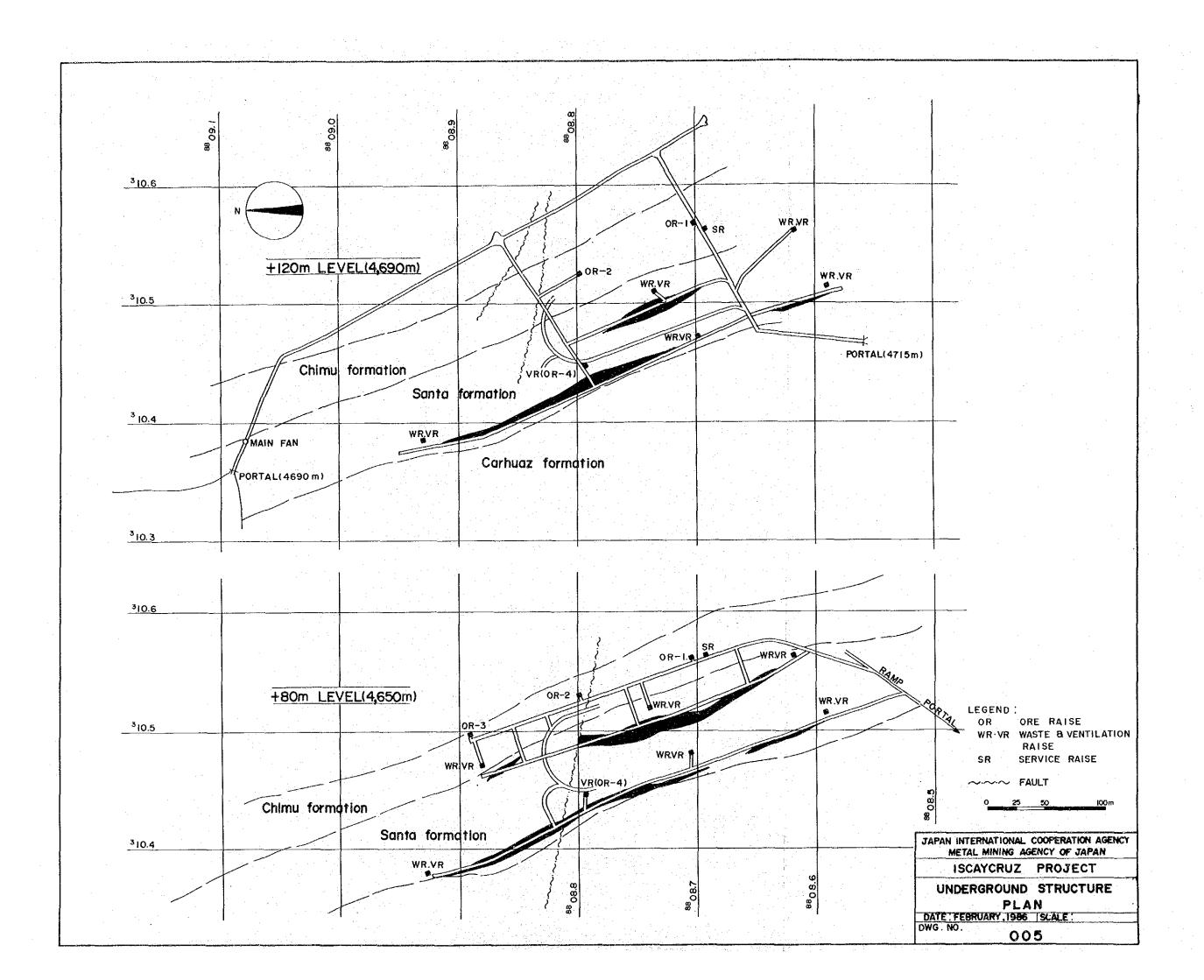
003

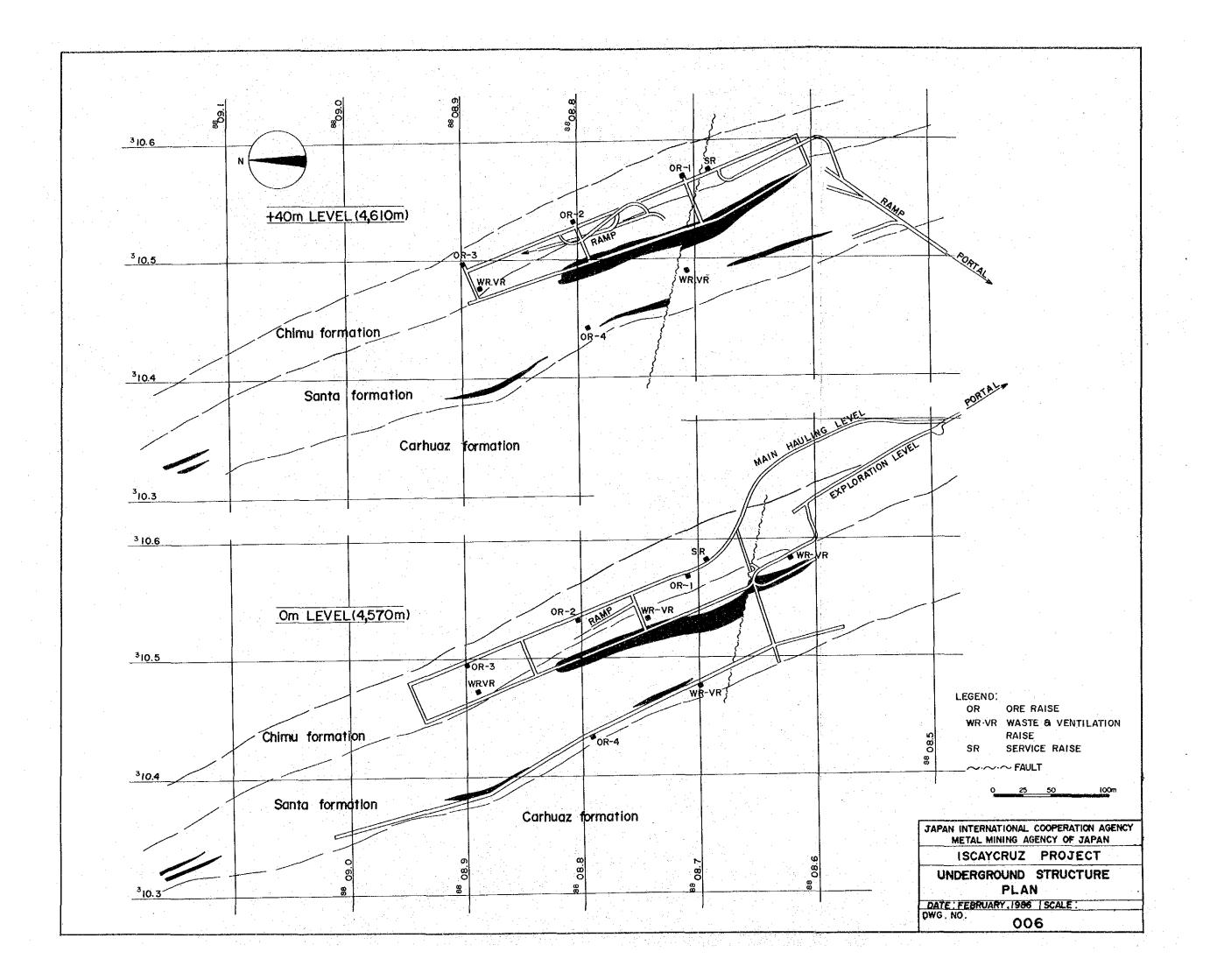
REPAIR SHOP, ASSAY LABORATORY ETC.

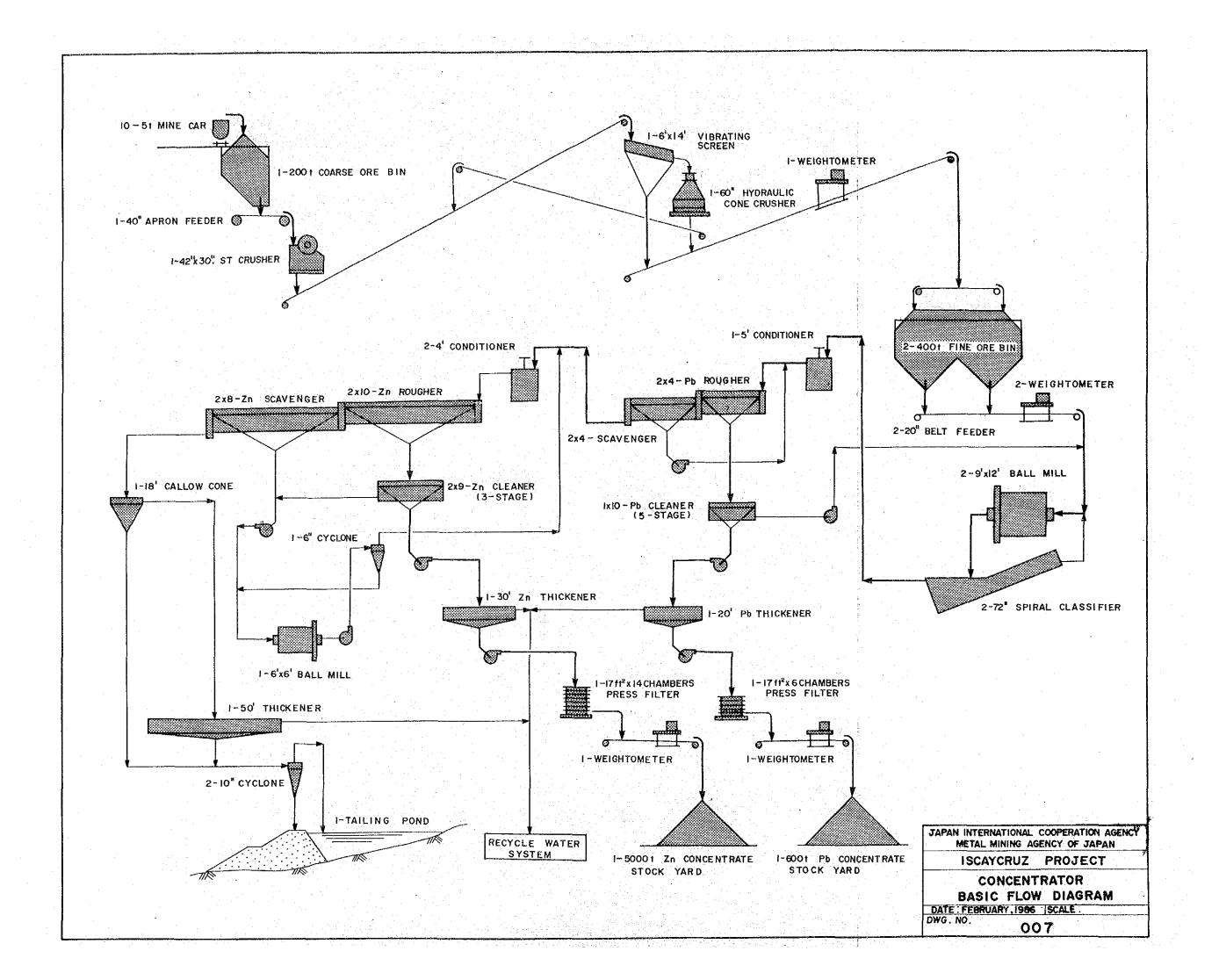
FAMILY HOUSE, BACHELOR QUARTER,

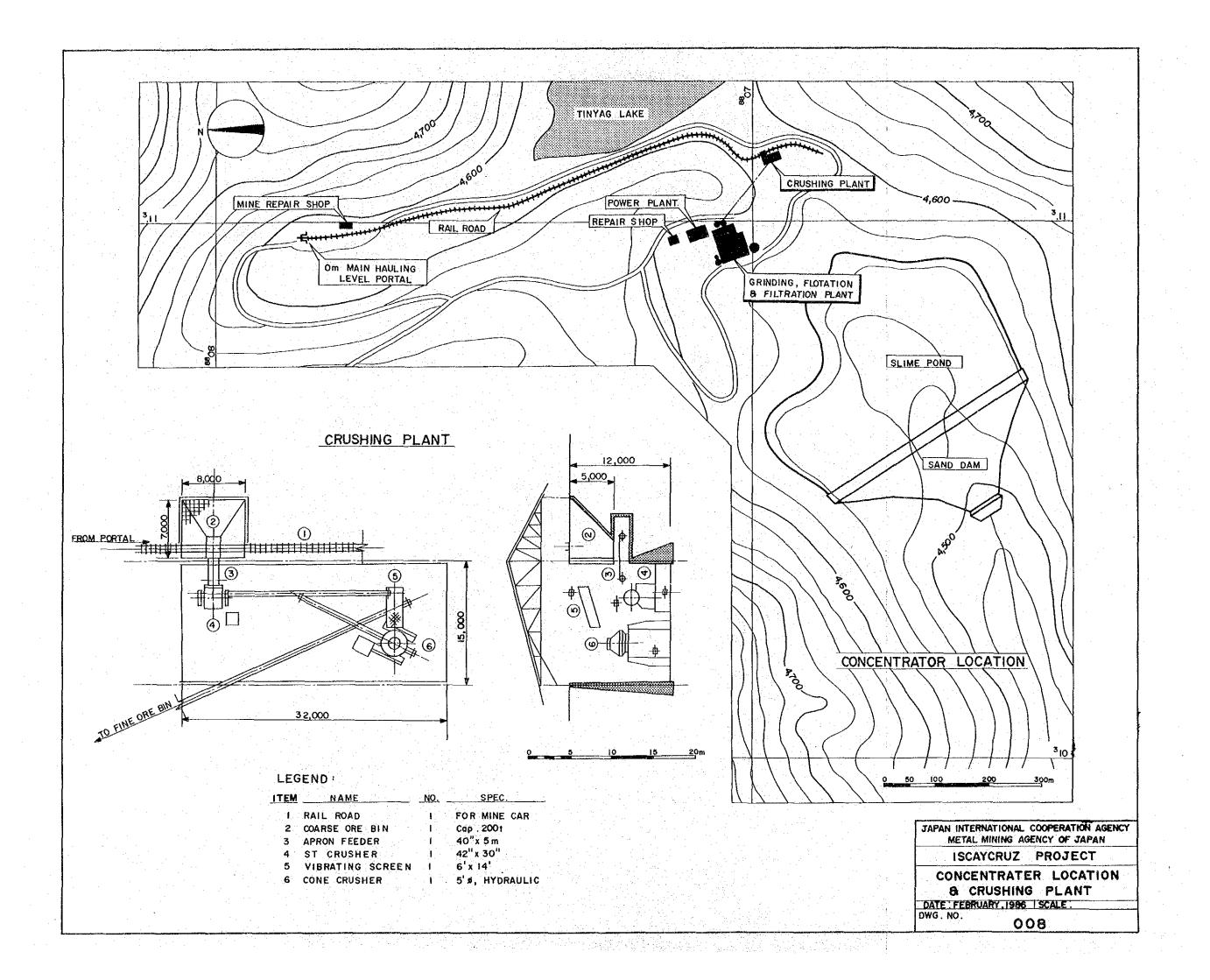
CLUB HOUSE, TENNIS COURT ETC.

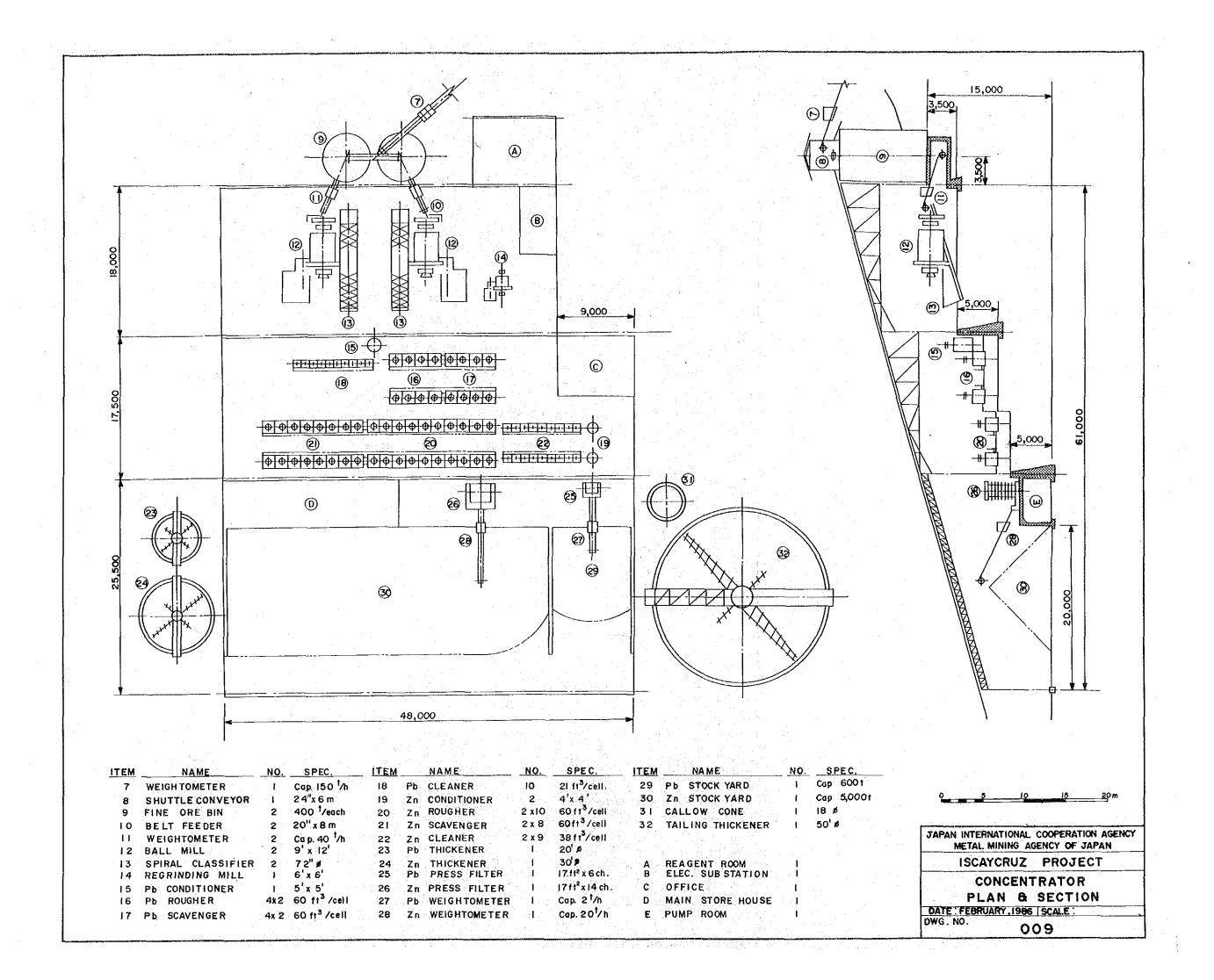


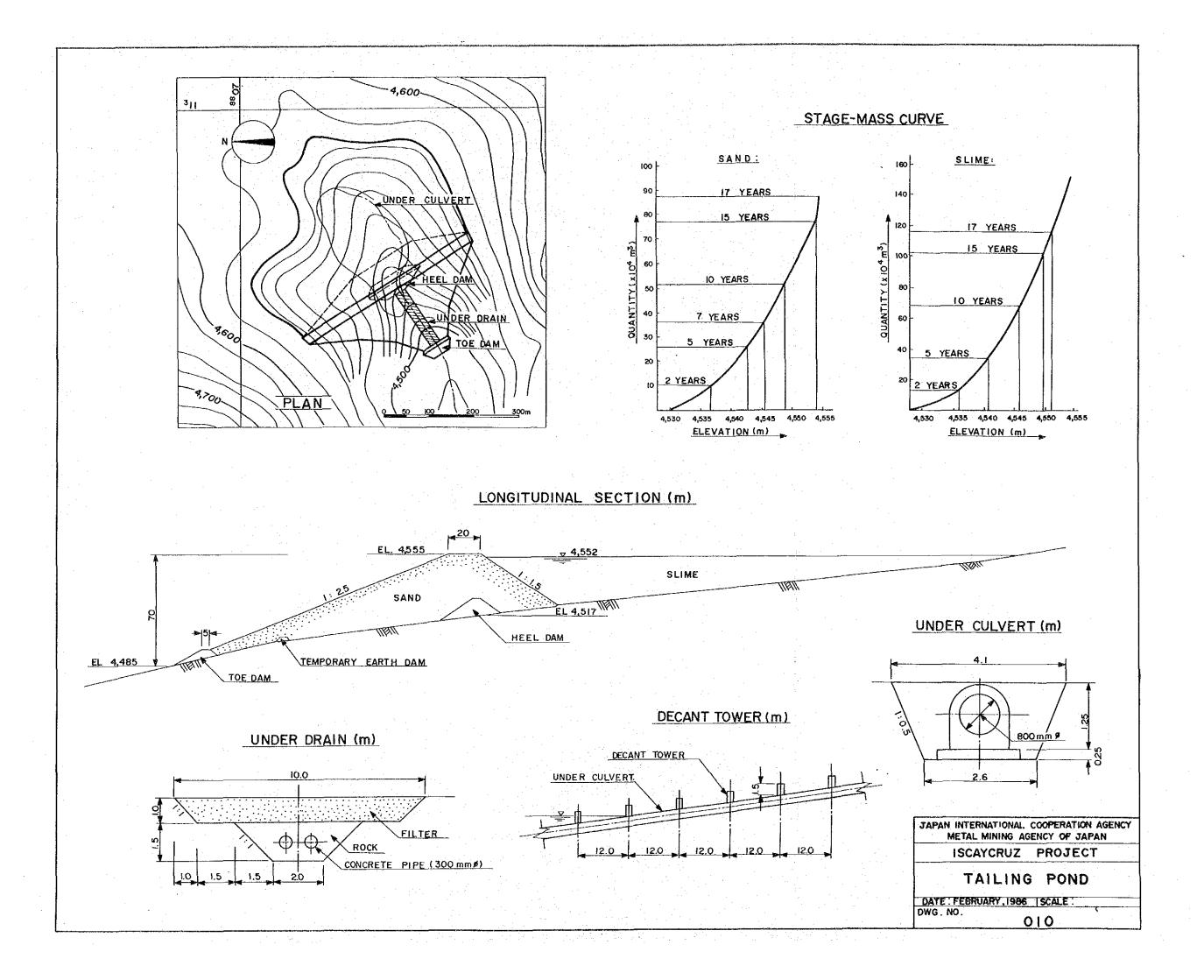


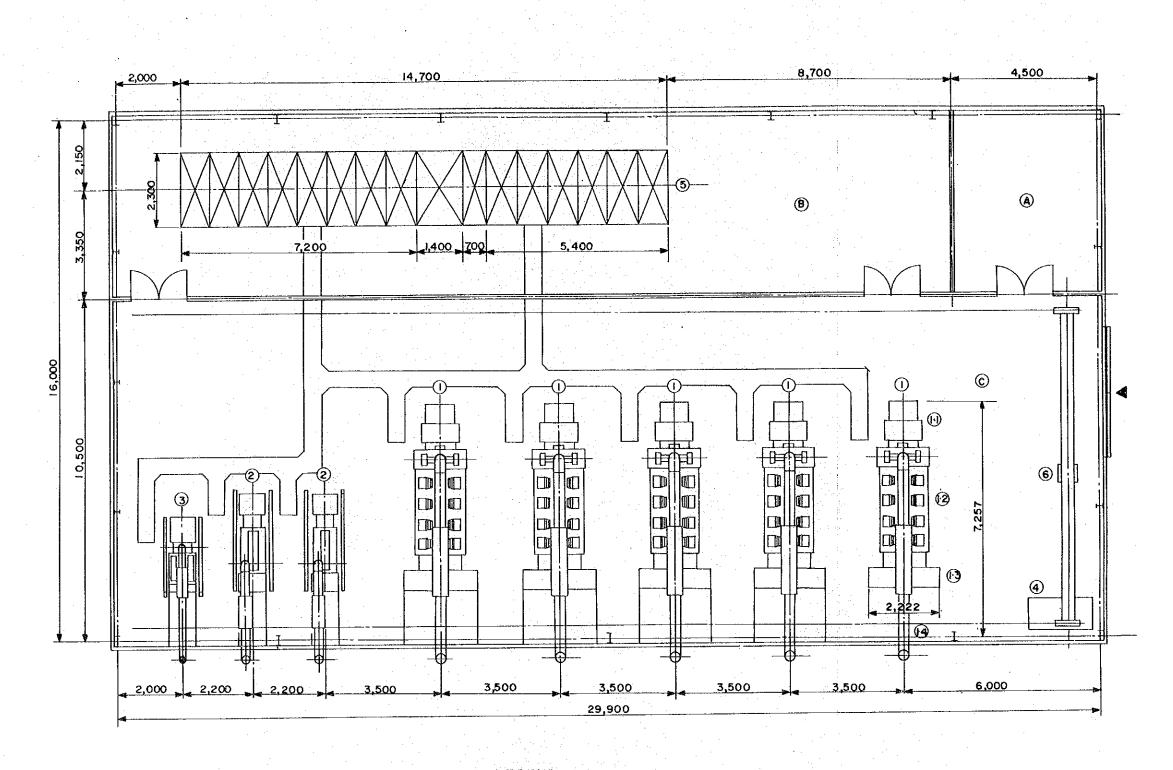












LEGEND :

- 820 KW DIESEL GENERATOR UNIT
- I-I GENERATOR
- 1.2 DIESEL ENGINE
- 1-3 RADIATOR
- 1.4 EXHAUST DUCT 2 175 KW DIESEL GENERATOR UNIT.
- 3 75KW DIESEL GENERATOR UNIT.
- 4 FUEL OIL TANK

- HIGH VORTAGE SWITCHGEARS &
- CONTROL PANELS
- OVERHEAD CRANE
- STOCK ROOM
- CONTROL ROOM
- MAINTENANCE SPACE

JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN

ISCAYCRUZ PROJECT

POWER PLANT

GENERAL LAYOUT DATE: FEBRUARY, 1986 | SCALE:

011

