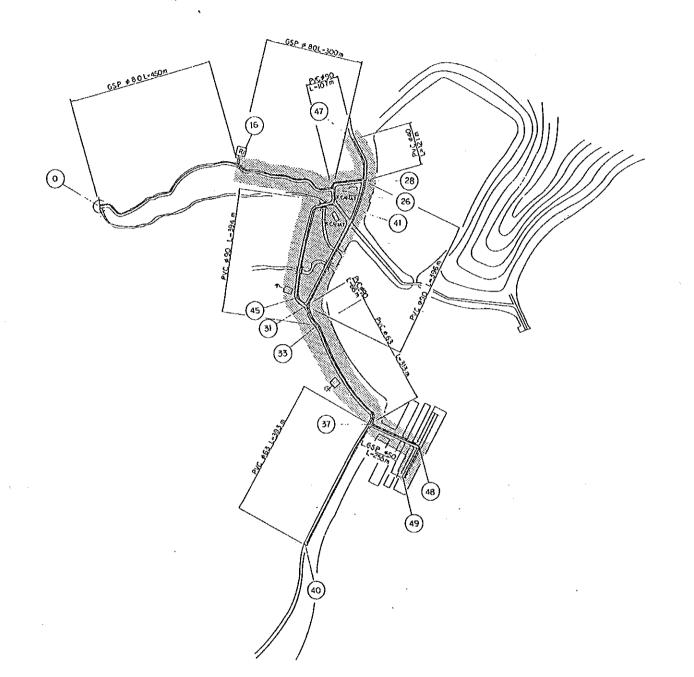


## DETAIL OF PIPELINE



## LEGEND

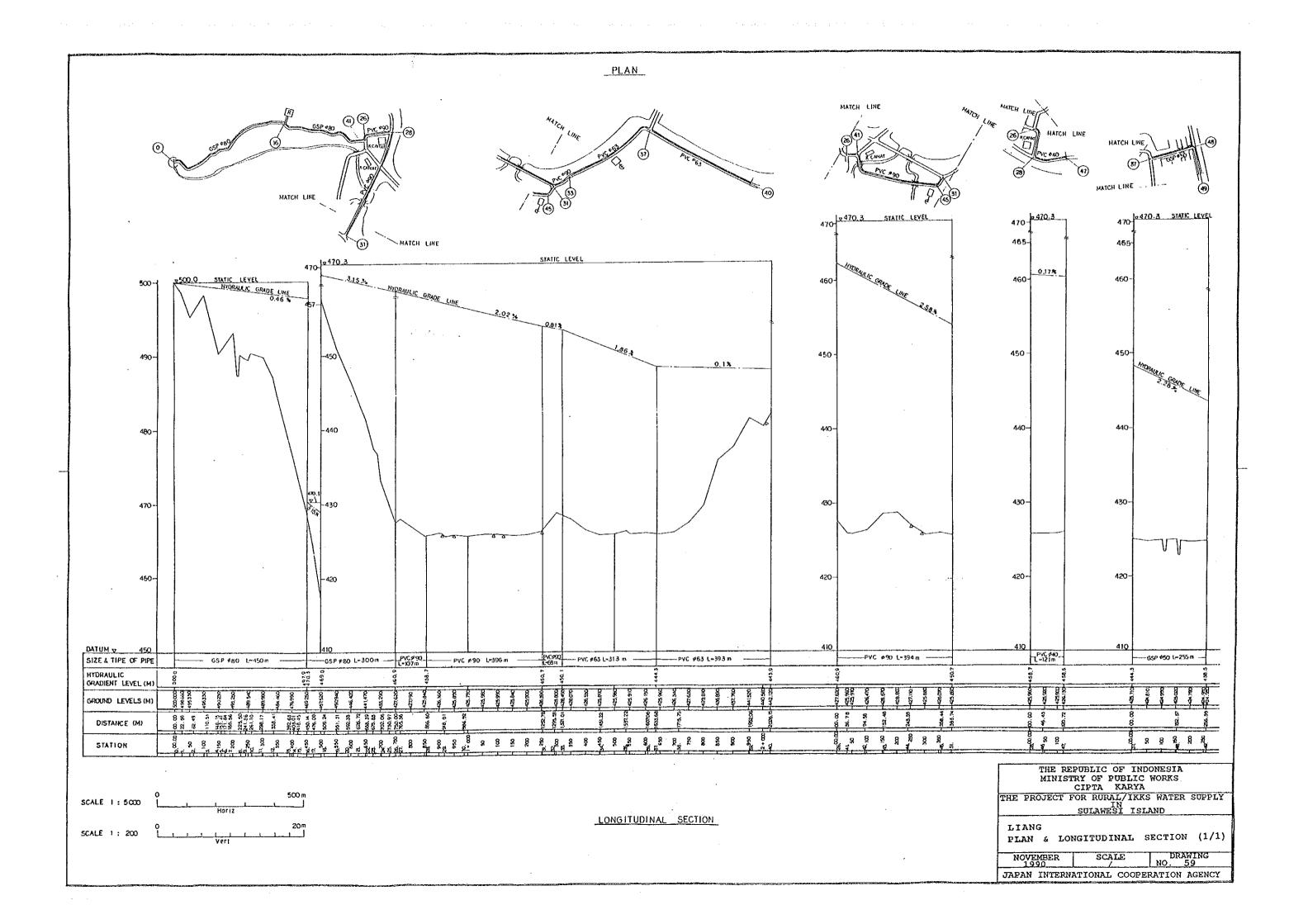
:SERVED AREA BY PUBLIC TAPS

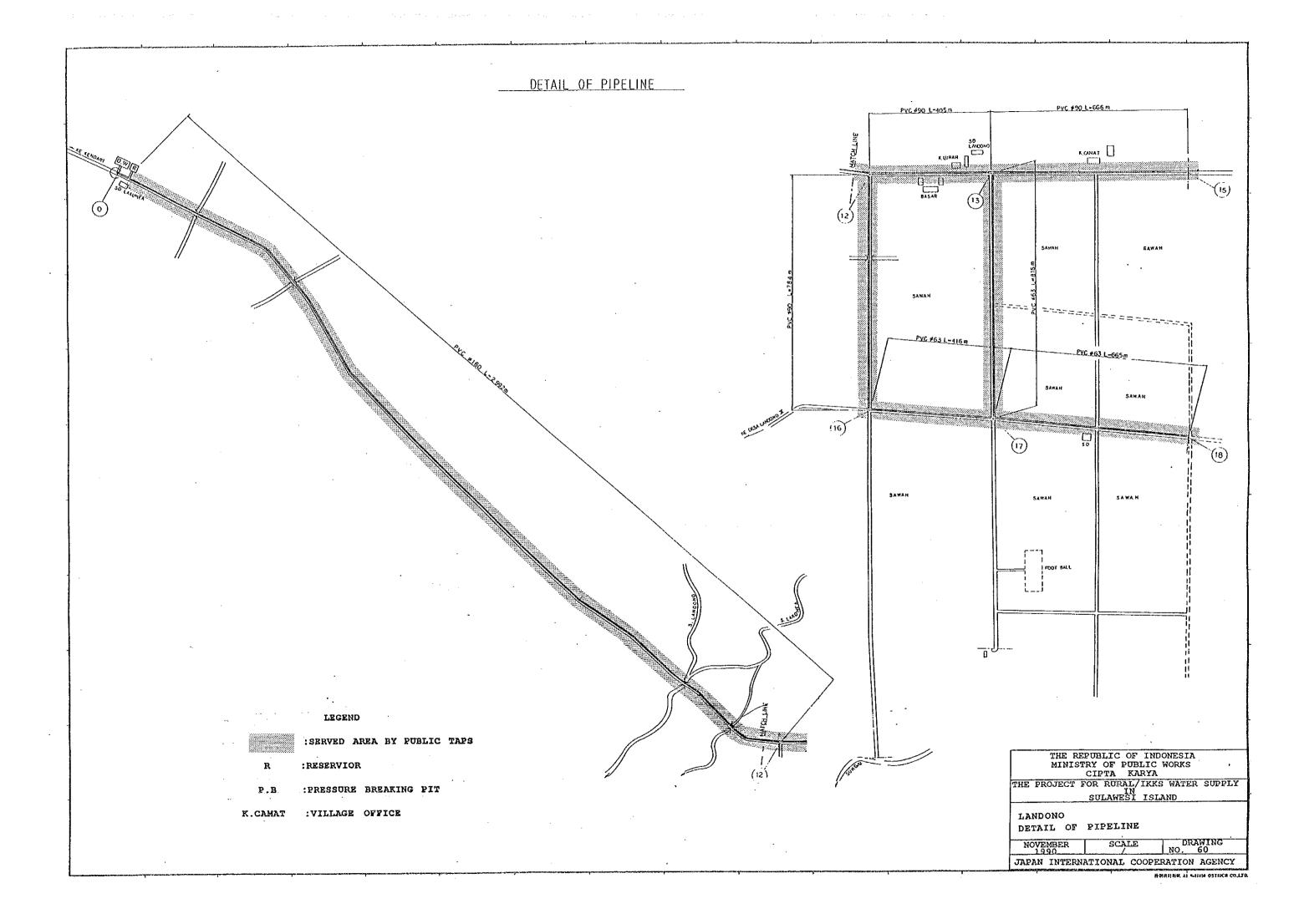
R :RESERVIOR

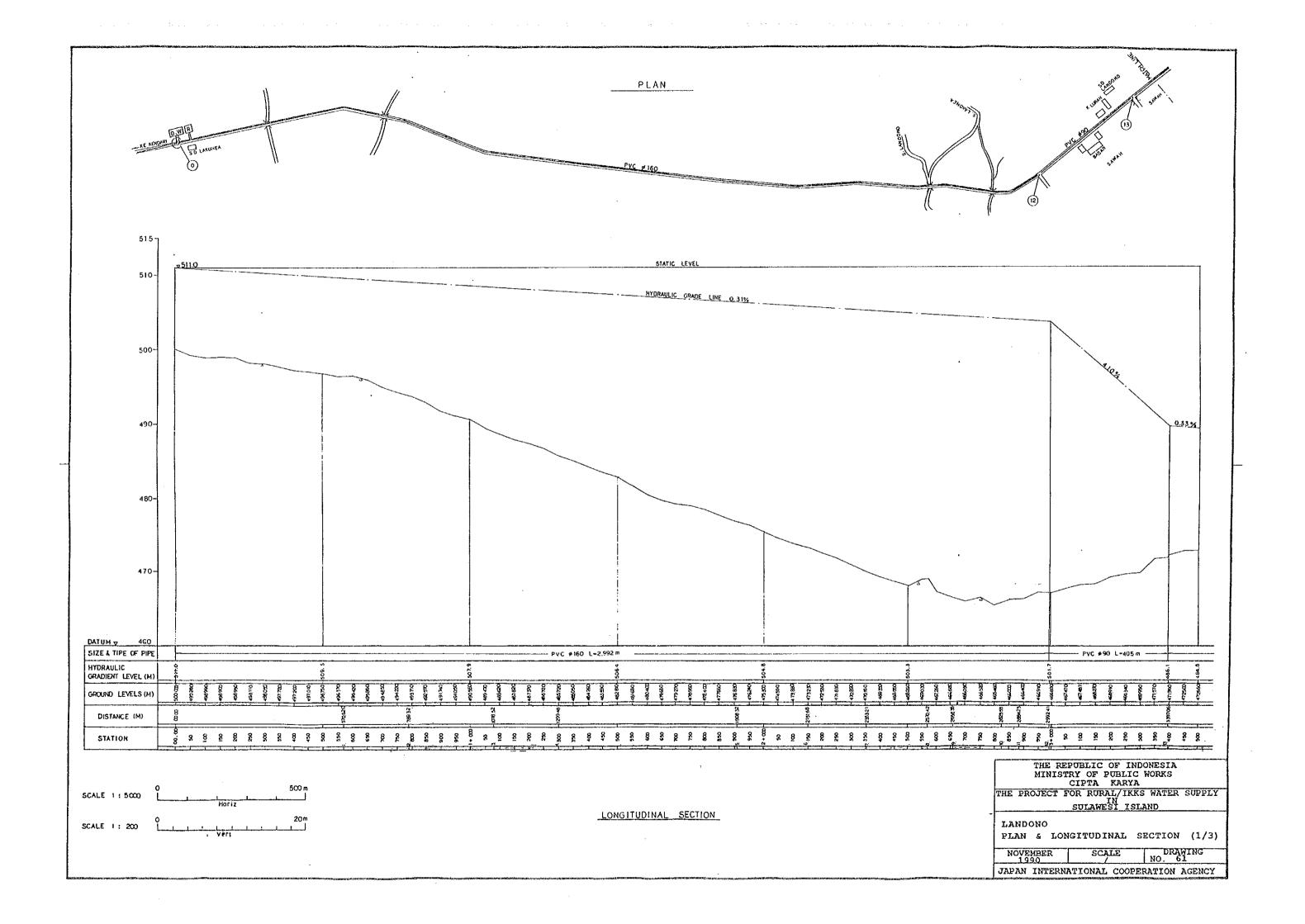
P.B :PRESSURE BREAKING PIT

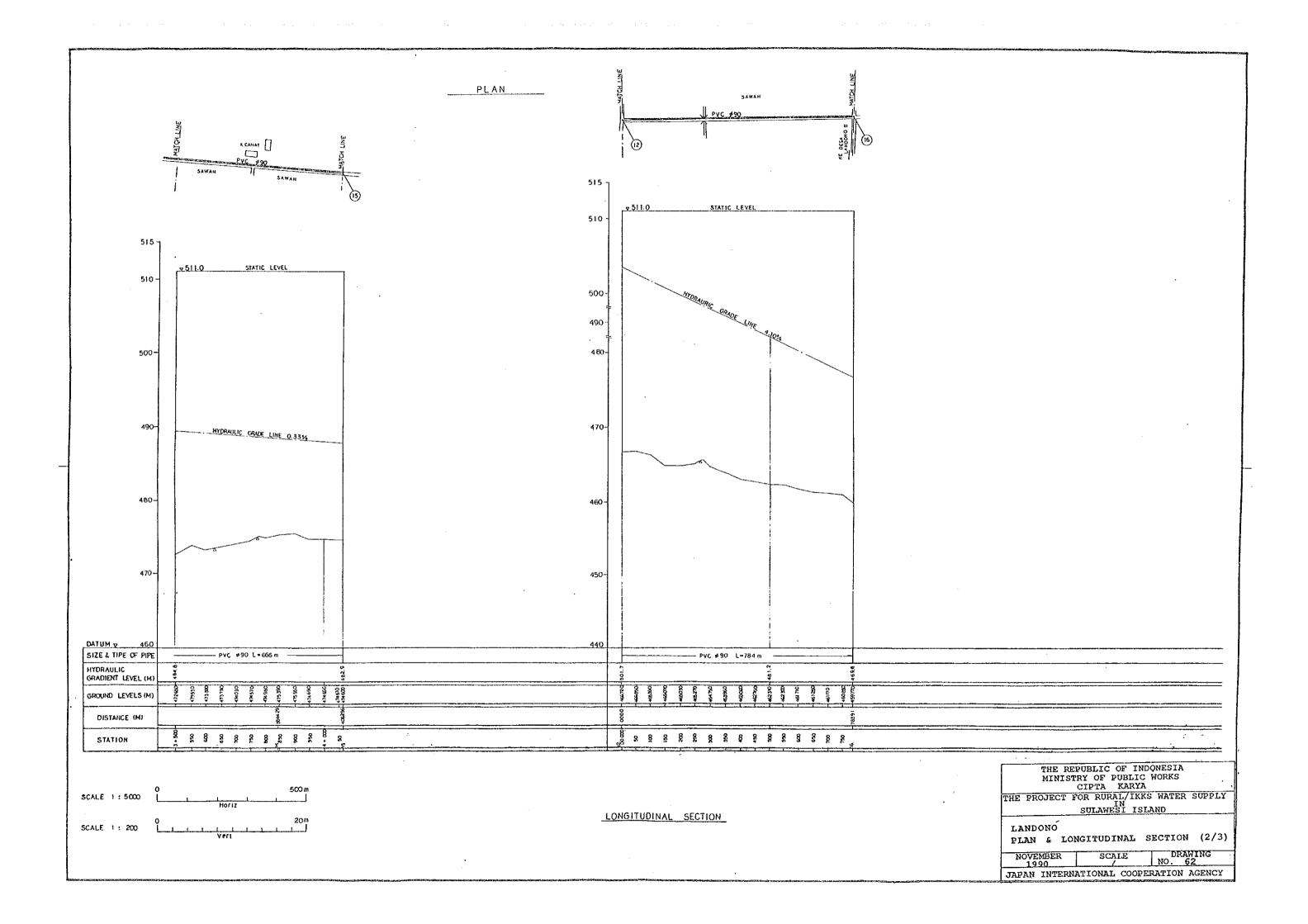
K.CAMAT : VILLAGE OFFICE

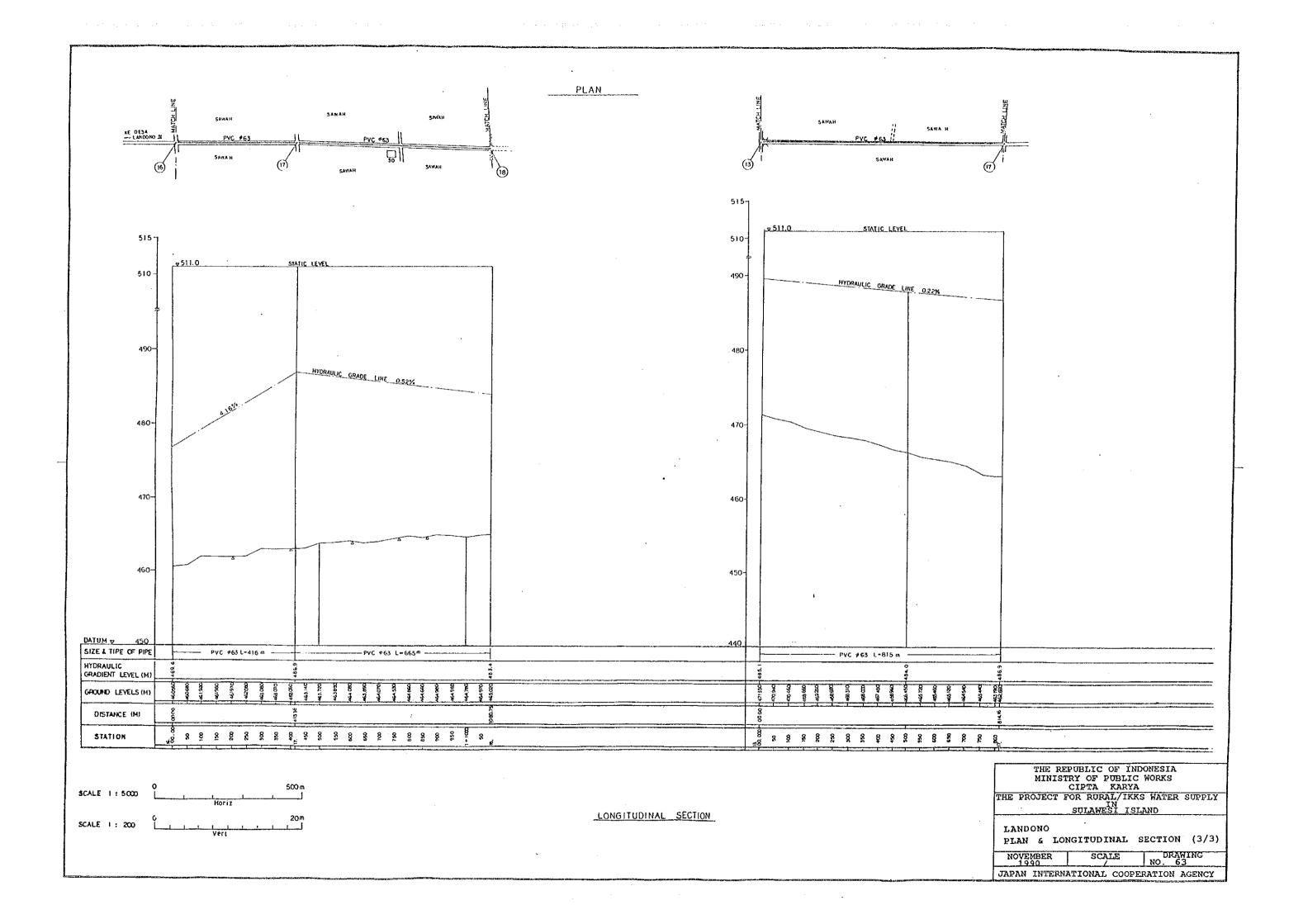
THE REPUBLIC OF INDONESIA			
MINISTRY OF PUBLIC WORKS			
		RYA	
THE PROJECT F	OR RURAL/	IKKS WATER	SUPPLY
SULAWESI ISLAND			
LIANG			
<b></b>	NAMES TAILS		
DETAIL OF	PIPELINE		
MOMENDED	SCALE	I DR	WING
NOVEMBER 1990	SCATE!	NO.	58
JAPAN INTERN	ATIONAL CO	OPERATION	AGENCY

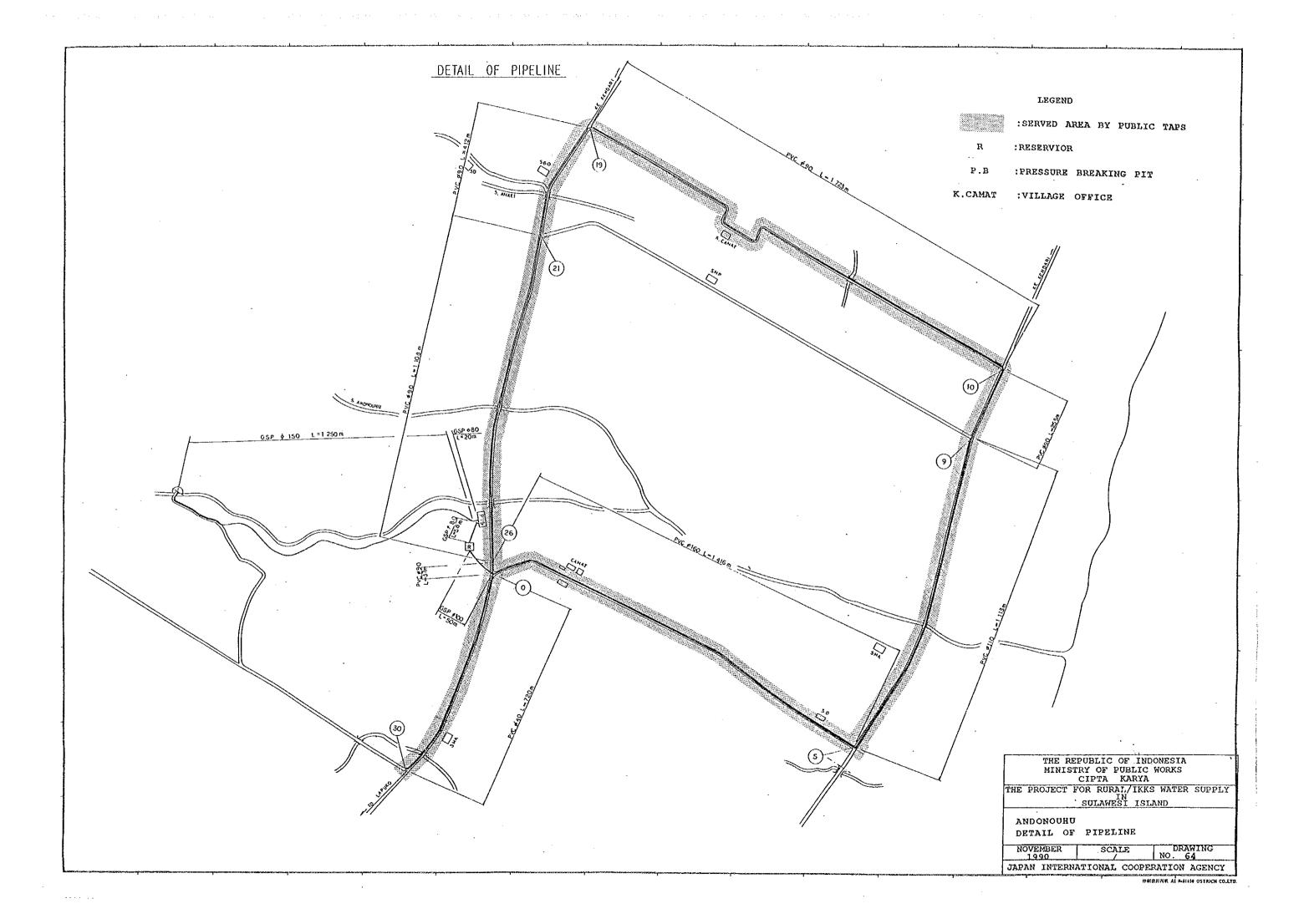


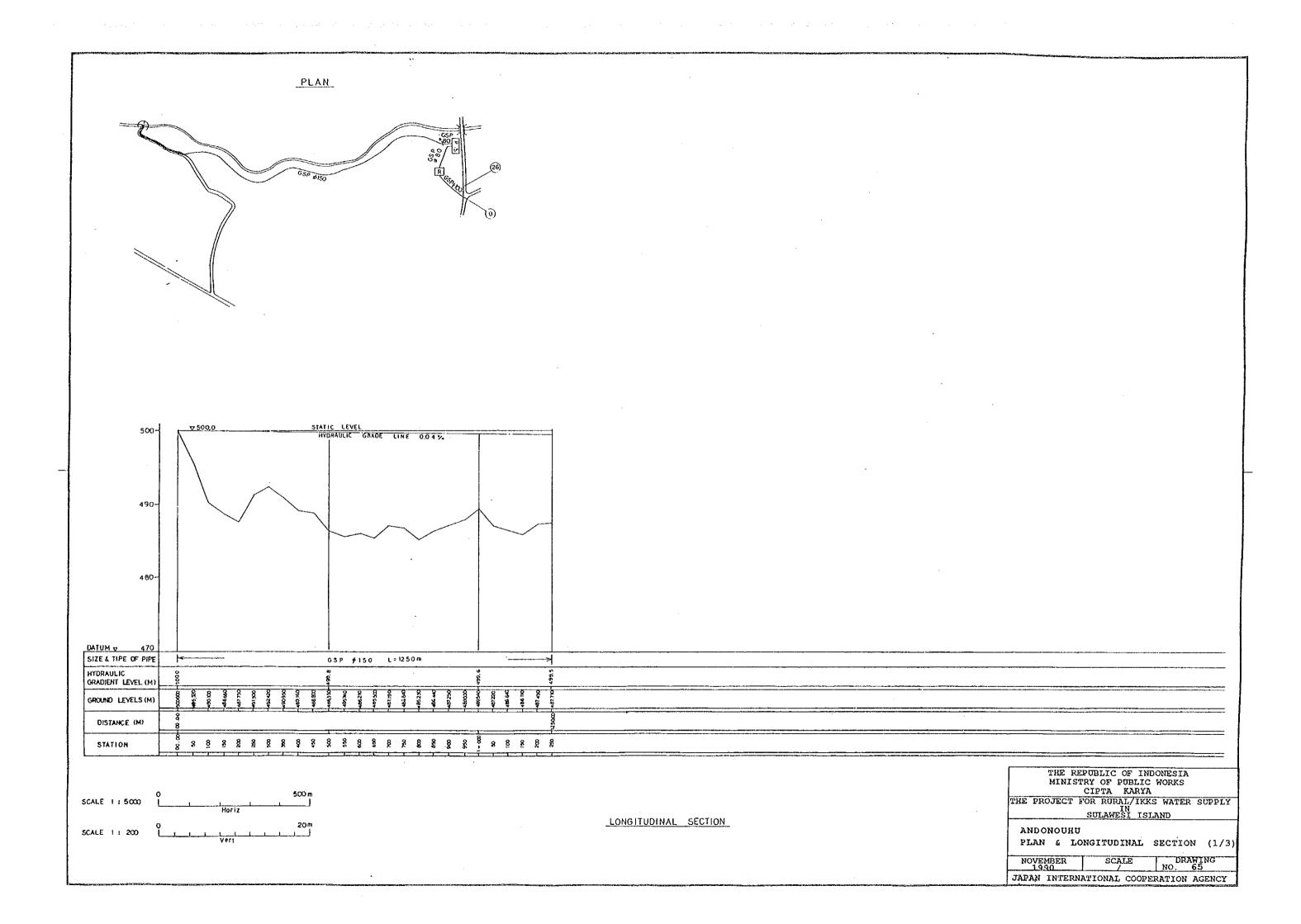


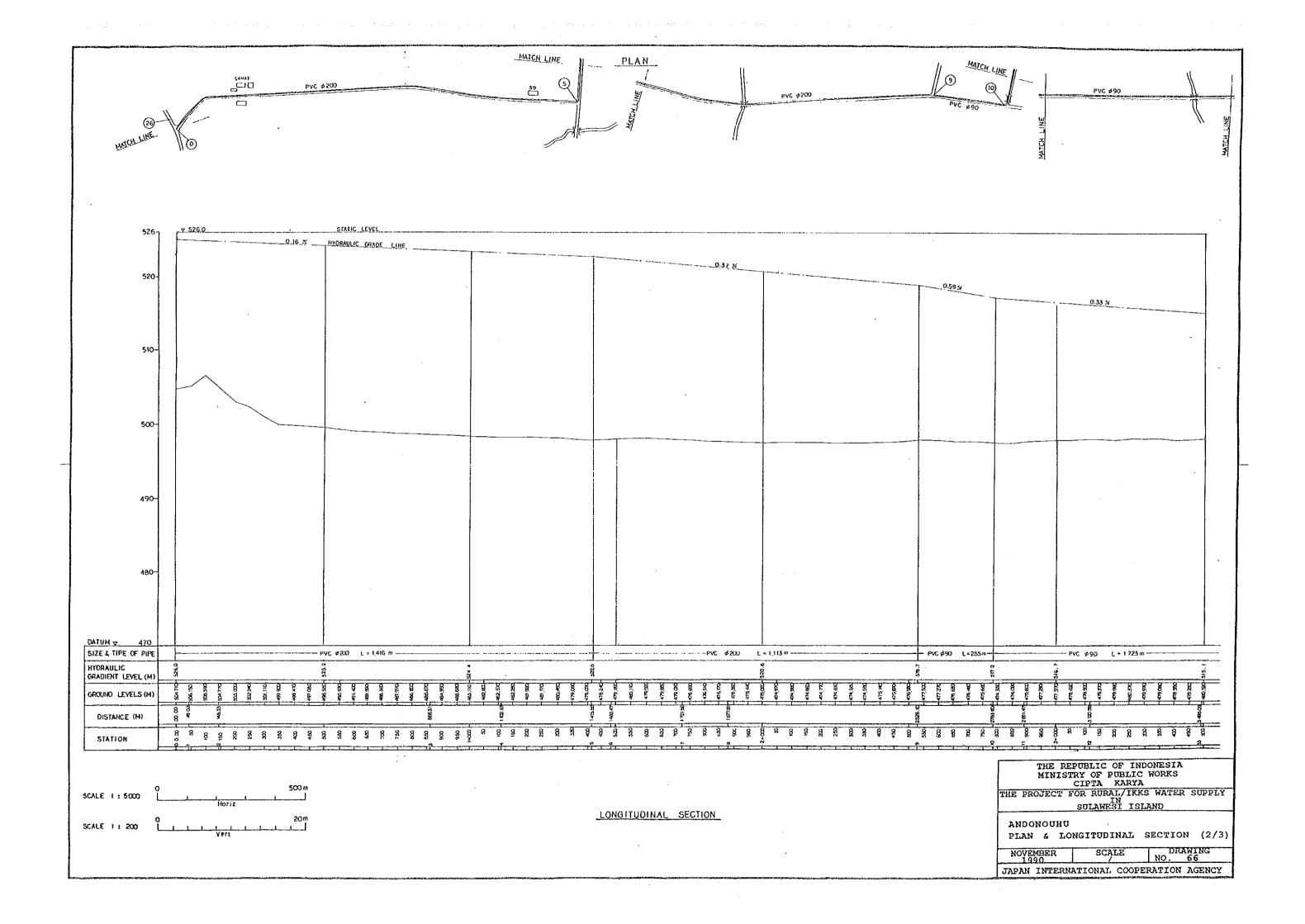


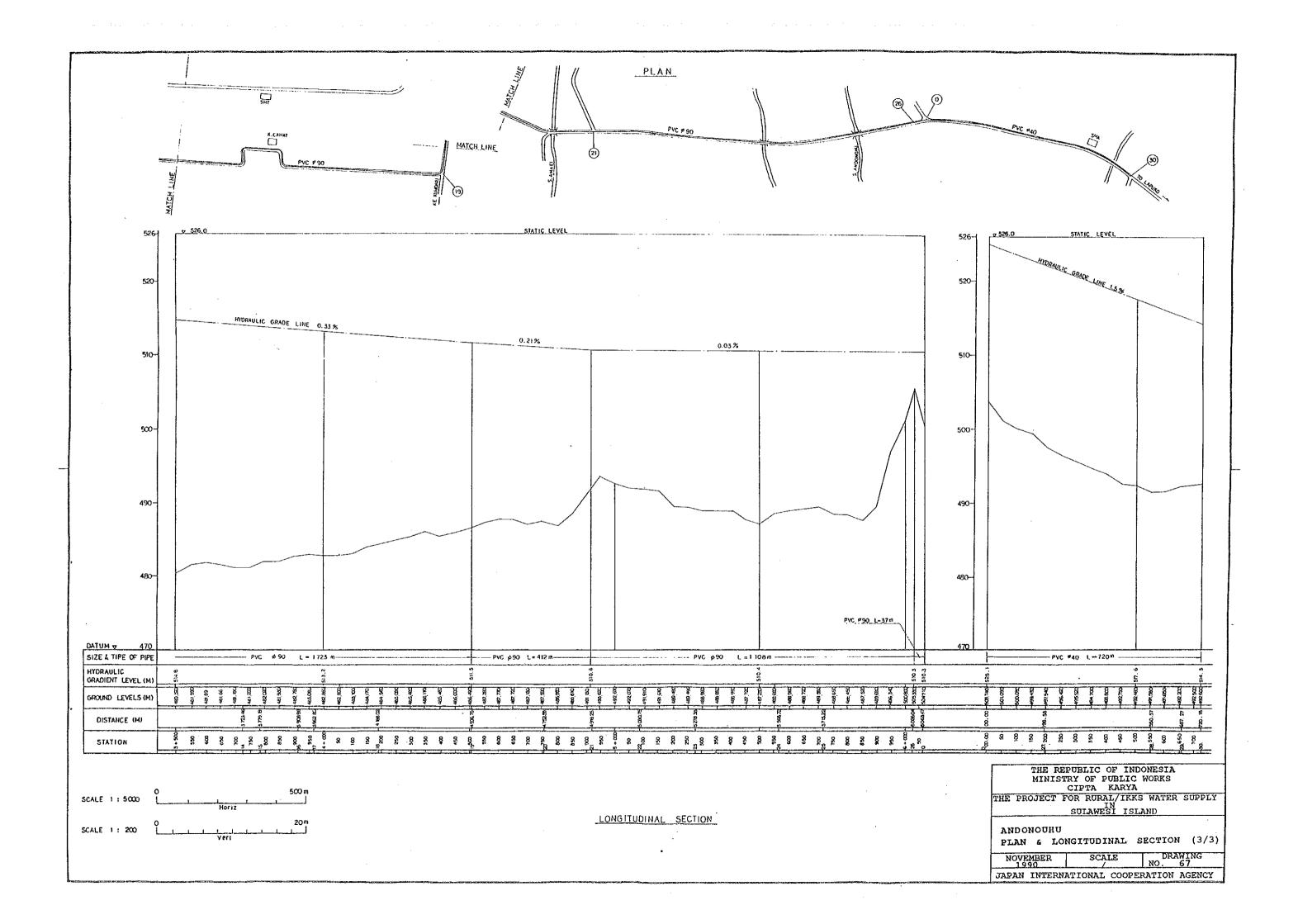


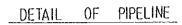


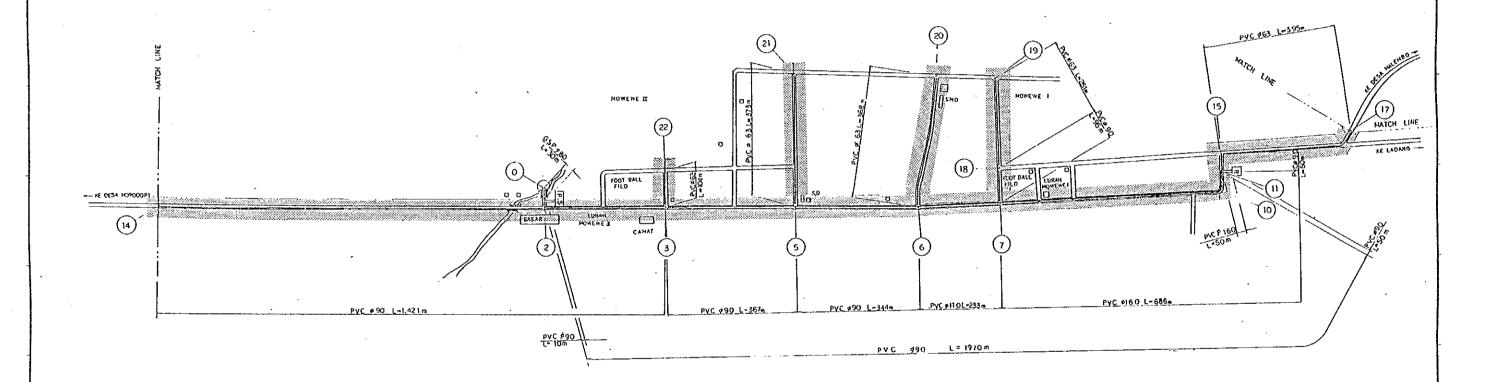












## Legend

SERVED AREA BY PUBLIC TAPS

R :RESERVIOR

P.B :PRESSURE BREAKING PIT

K.CAMAT

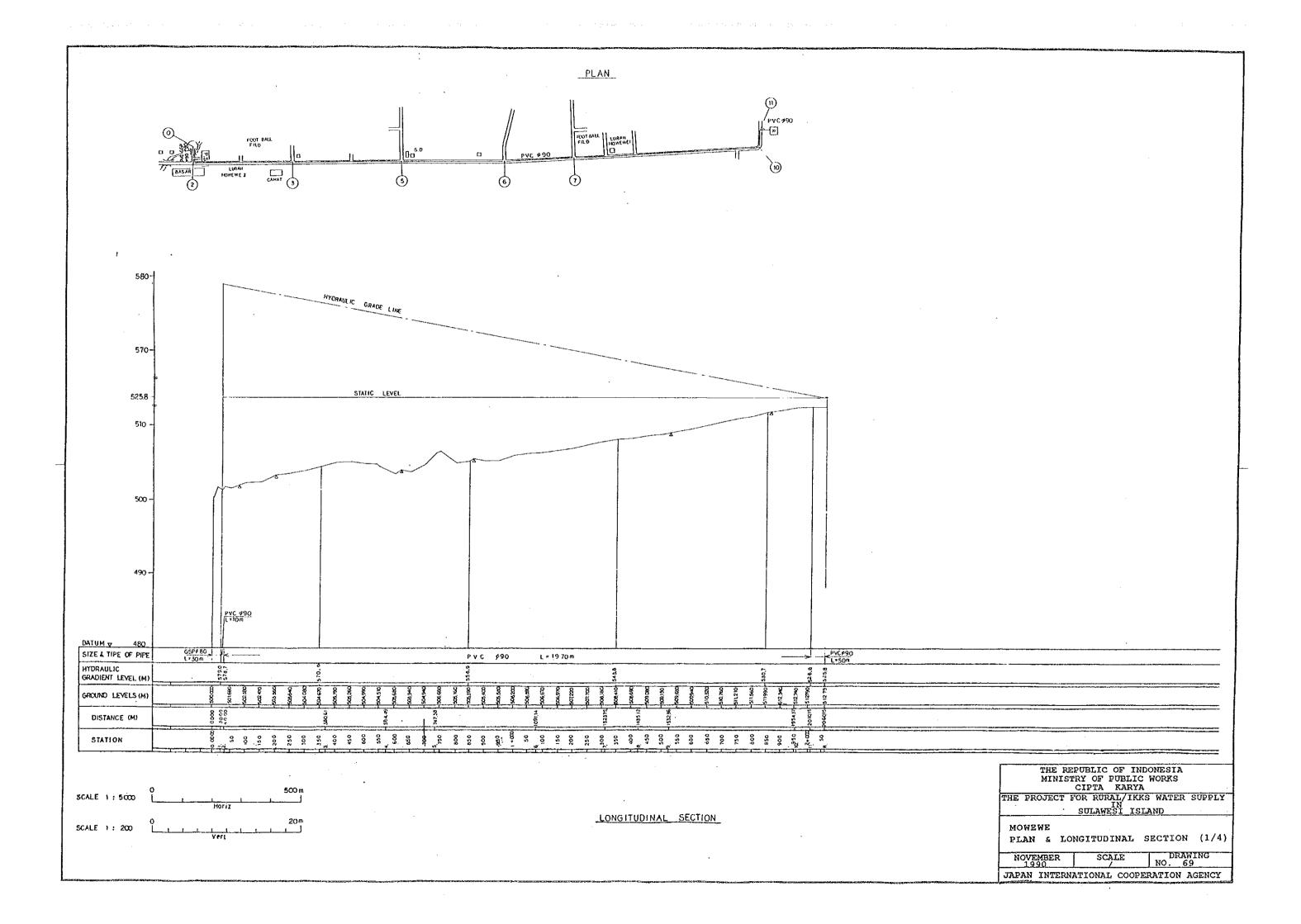
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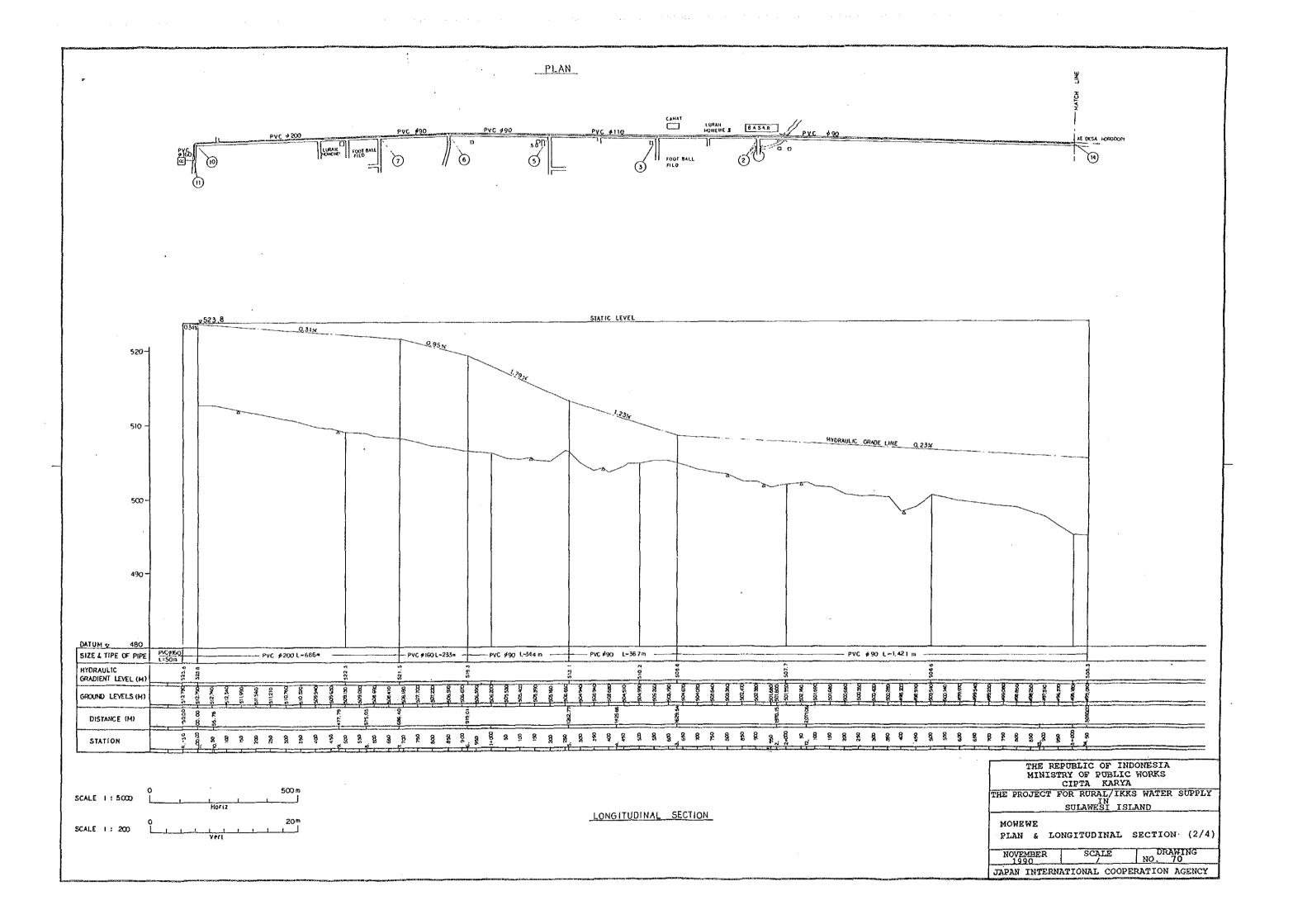
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
CIPTA KARYA
THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

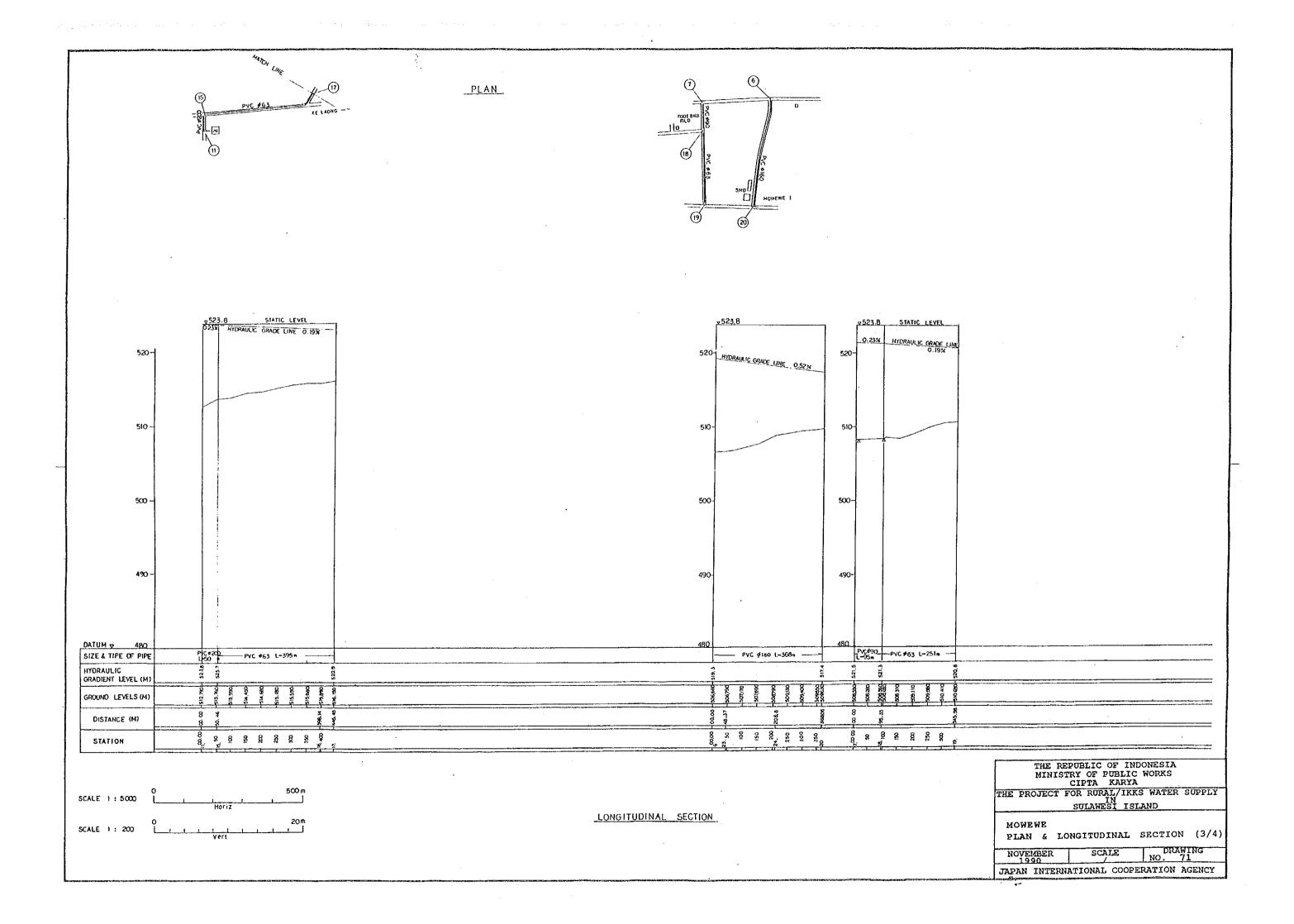
Mowewe

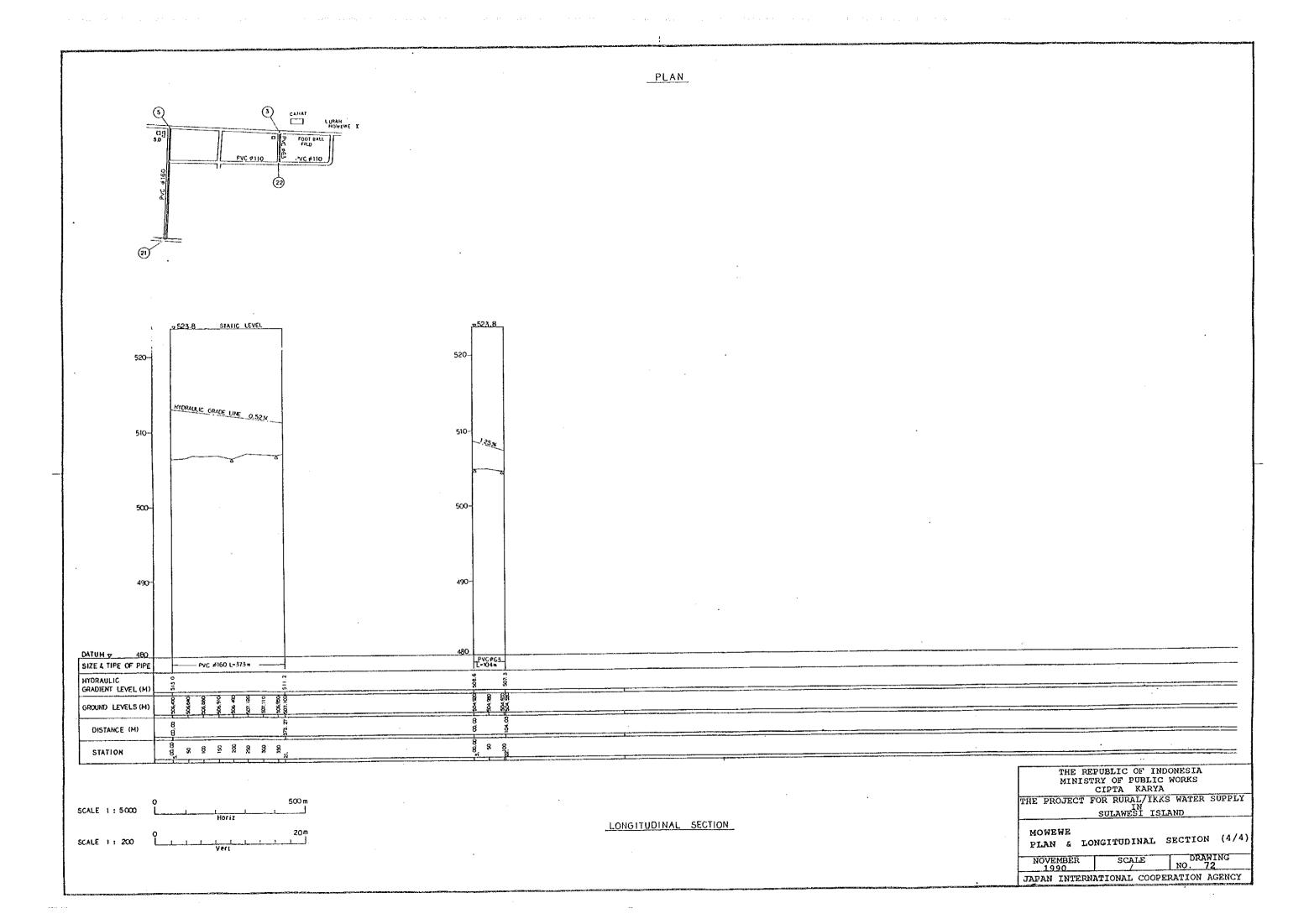
DETAIL OF PIPELINE

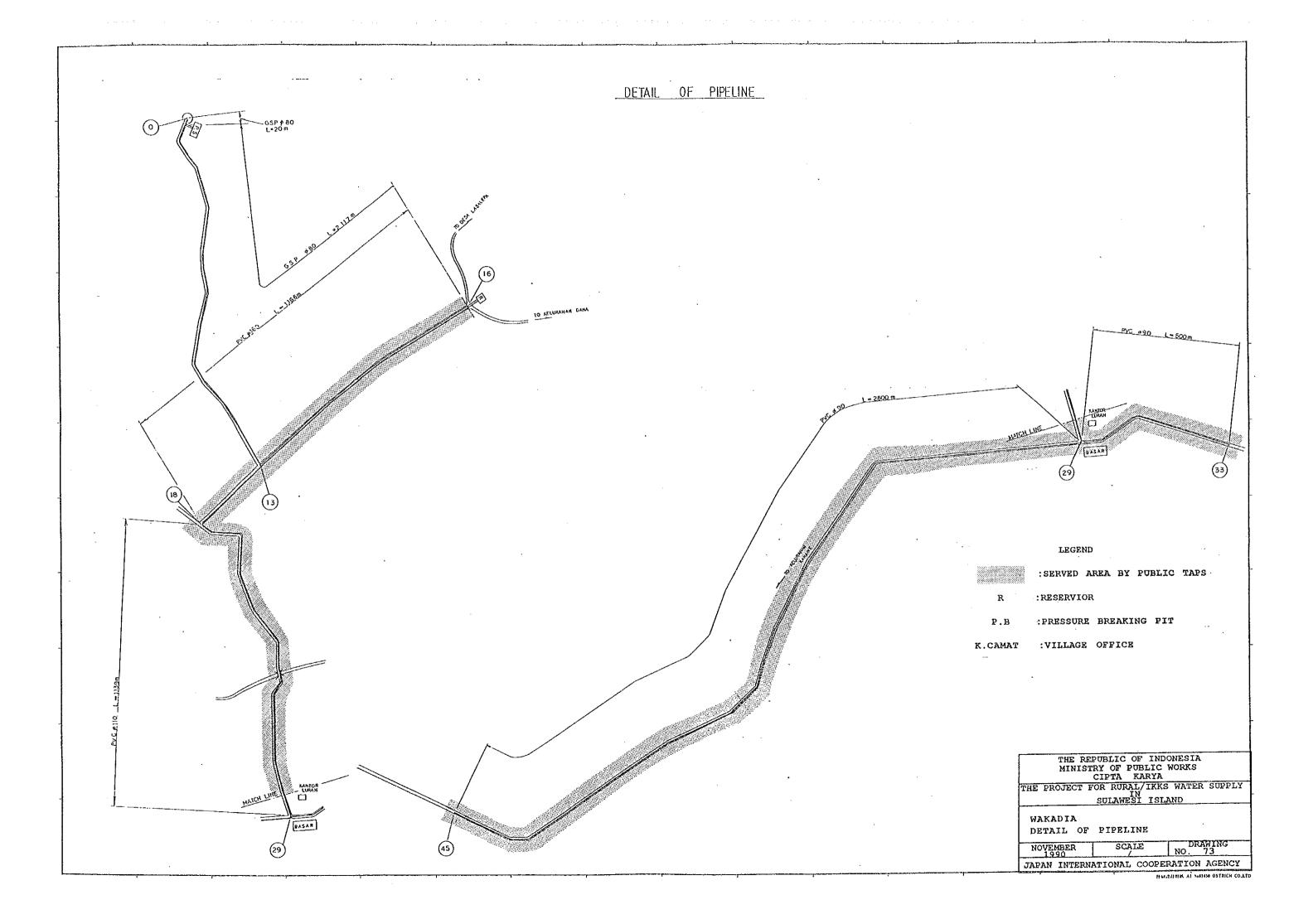
NOVEMBER 1990 JAPAN INTERNATIONAL COOPERATION AGENCY

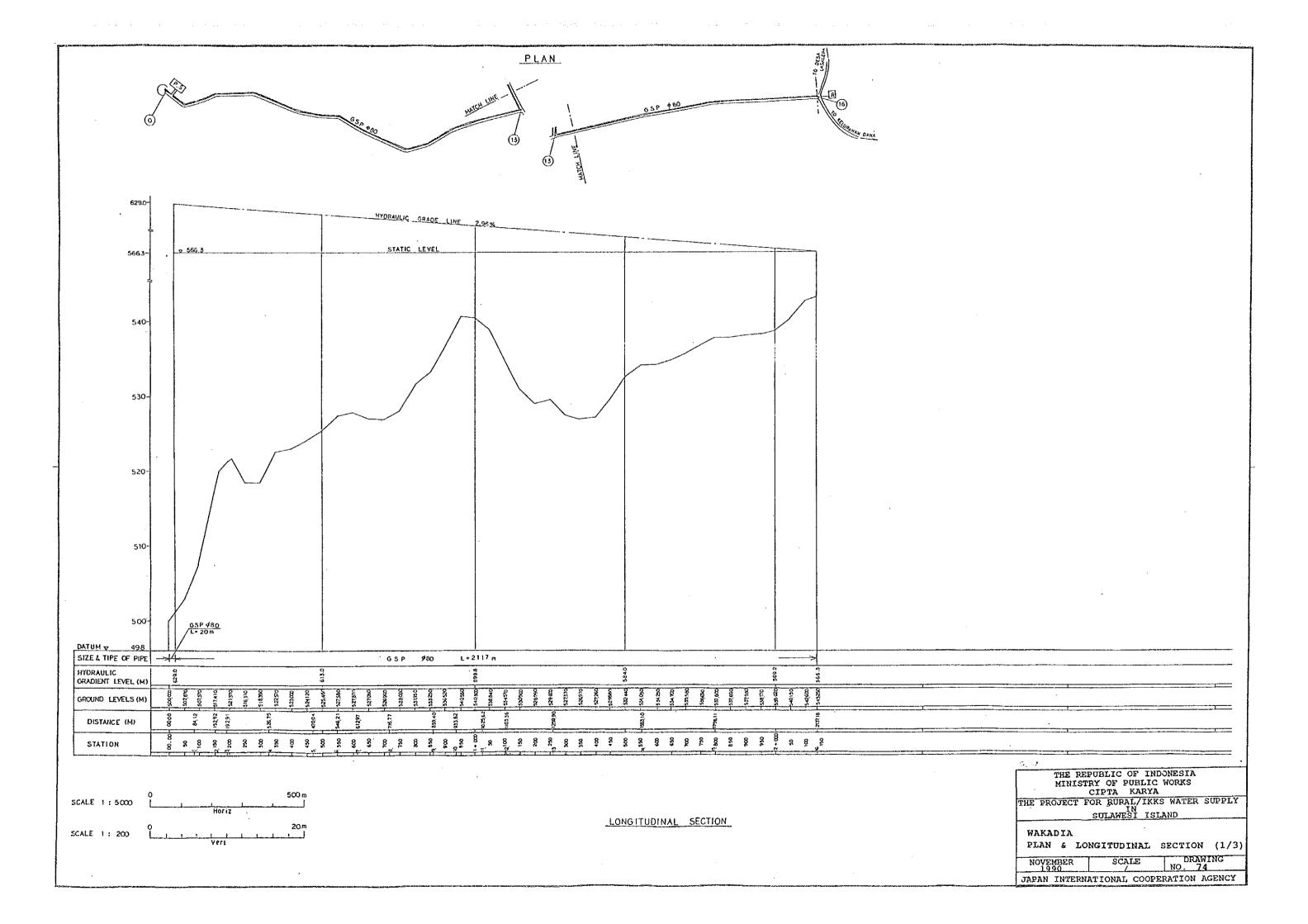


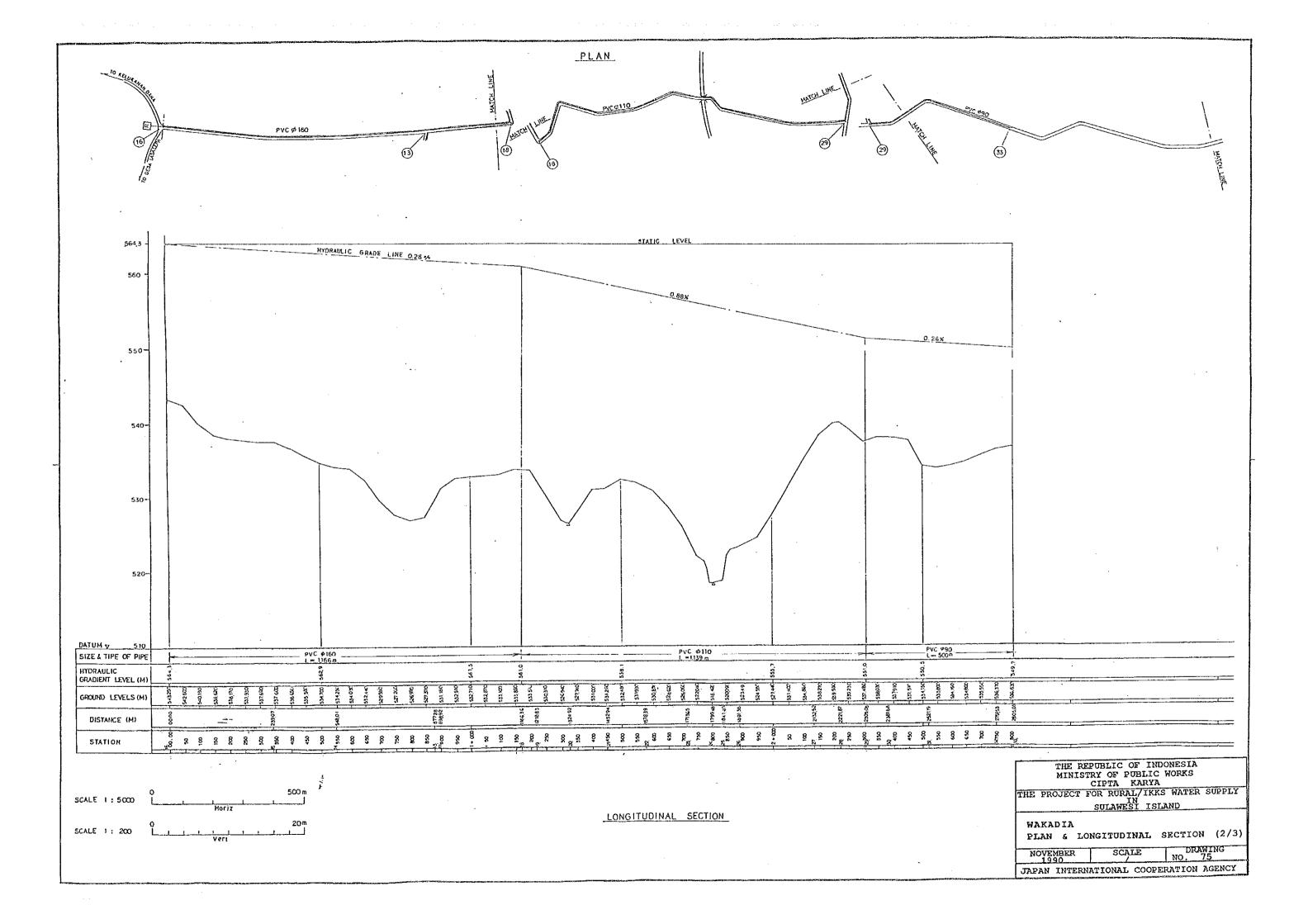


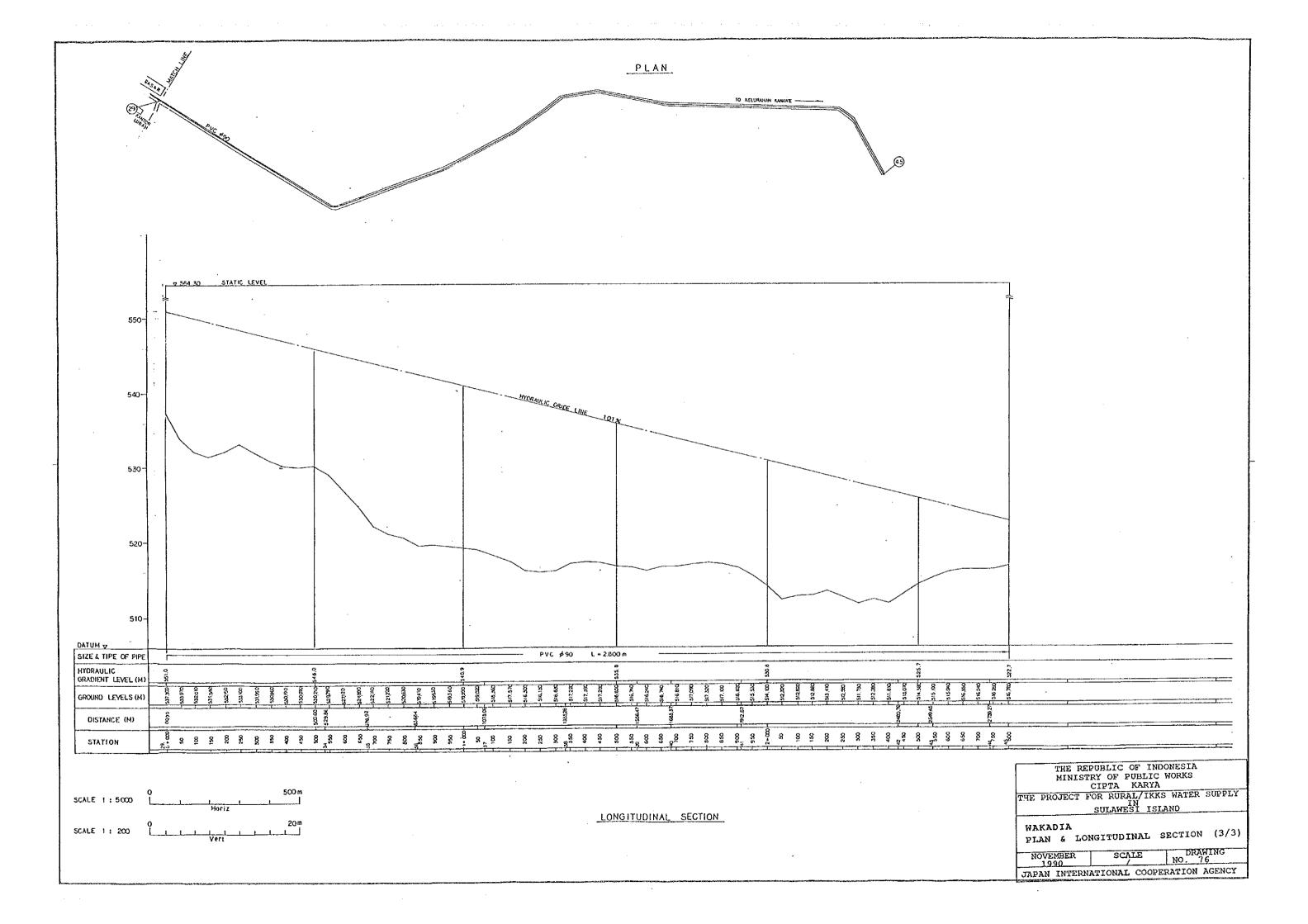


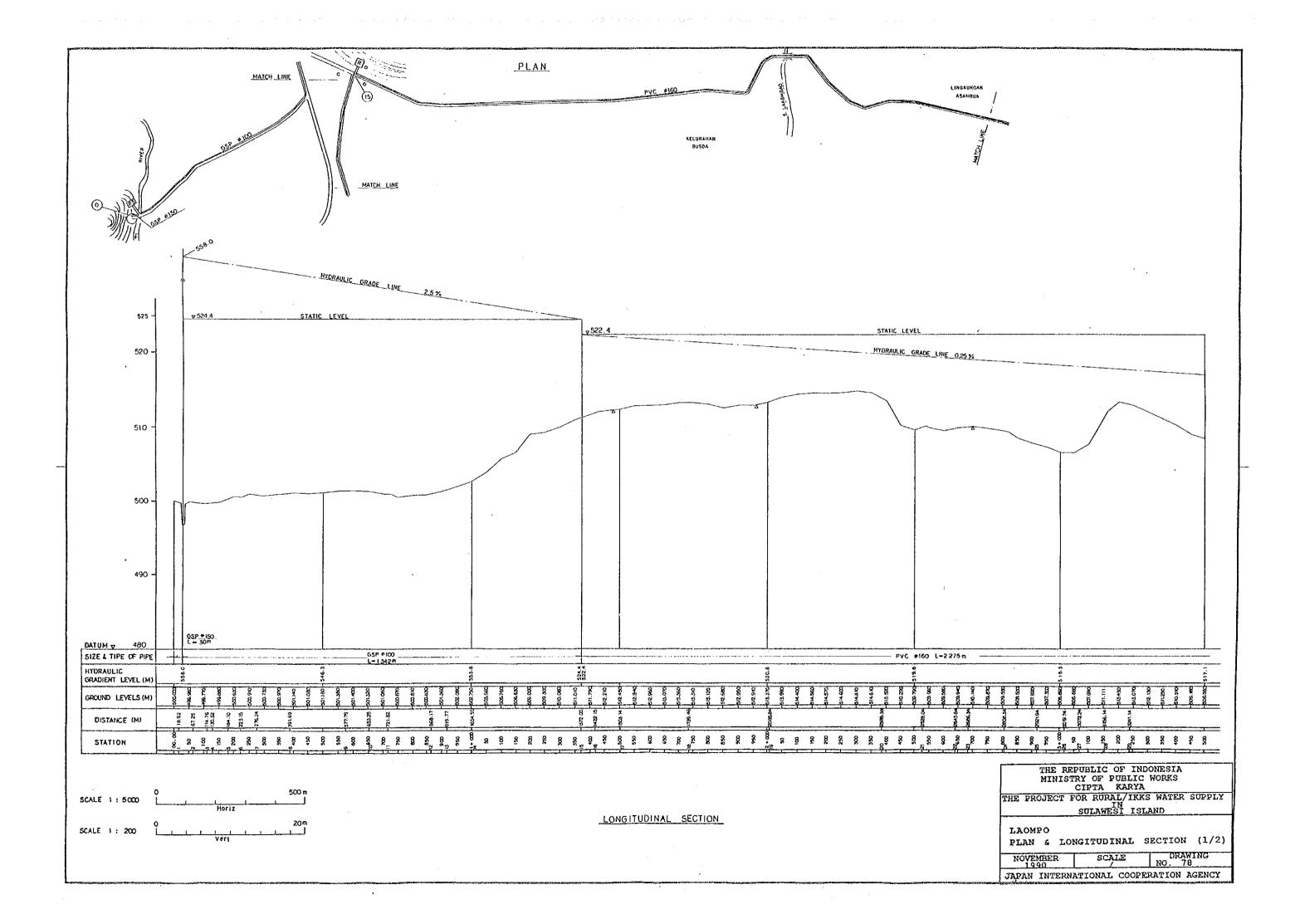


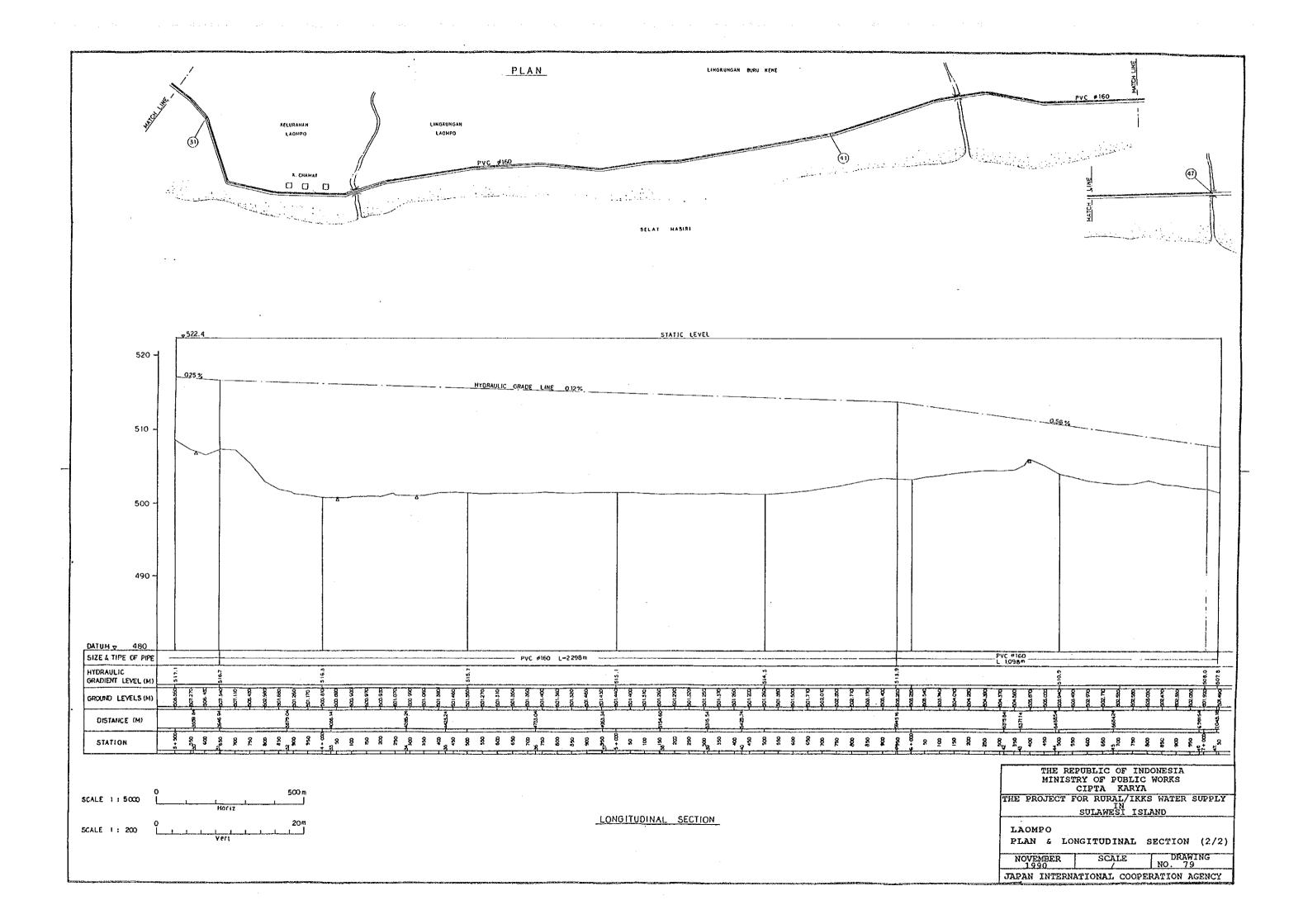


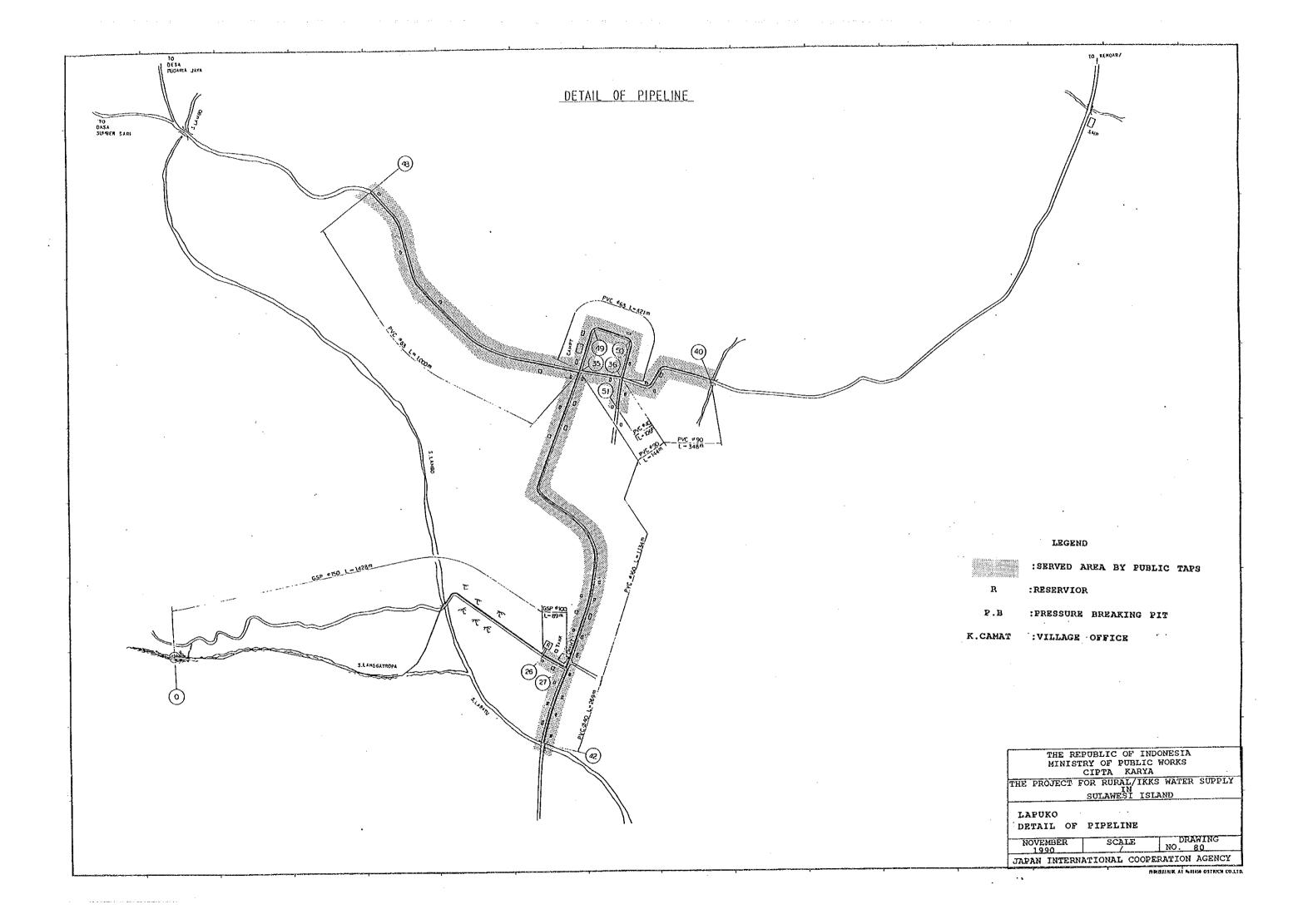


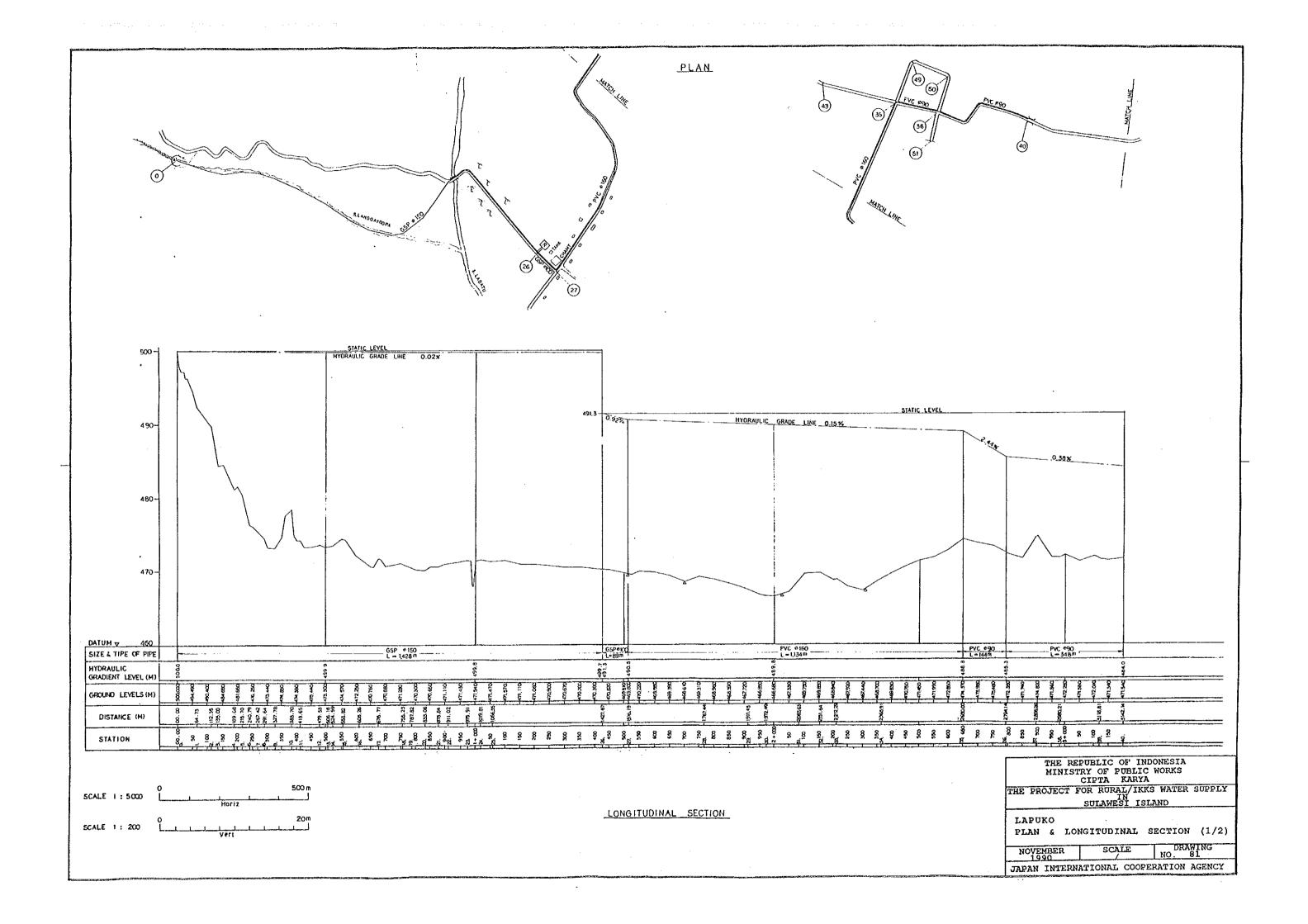


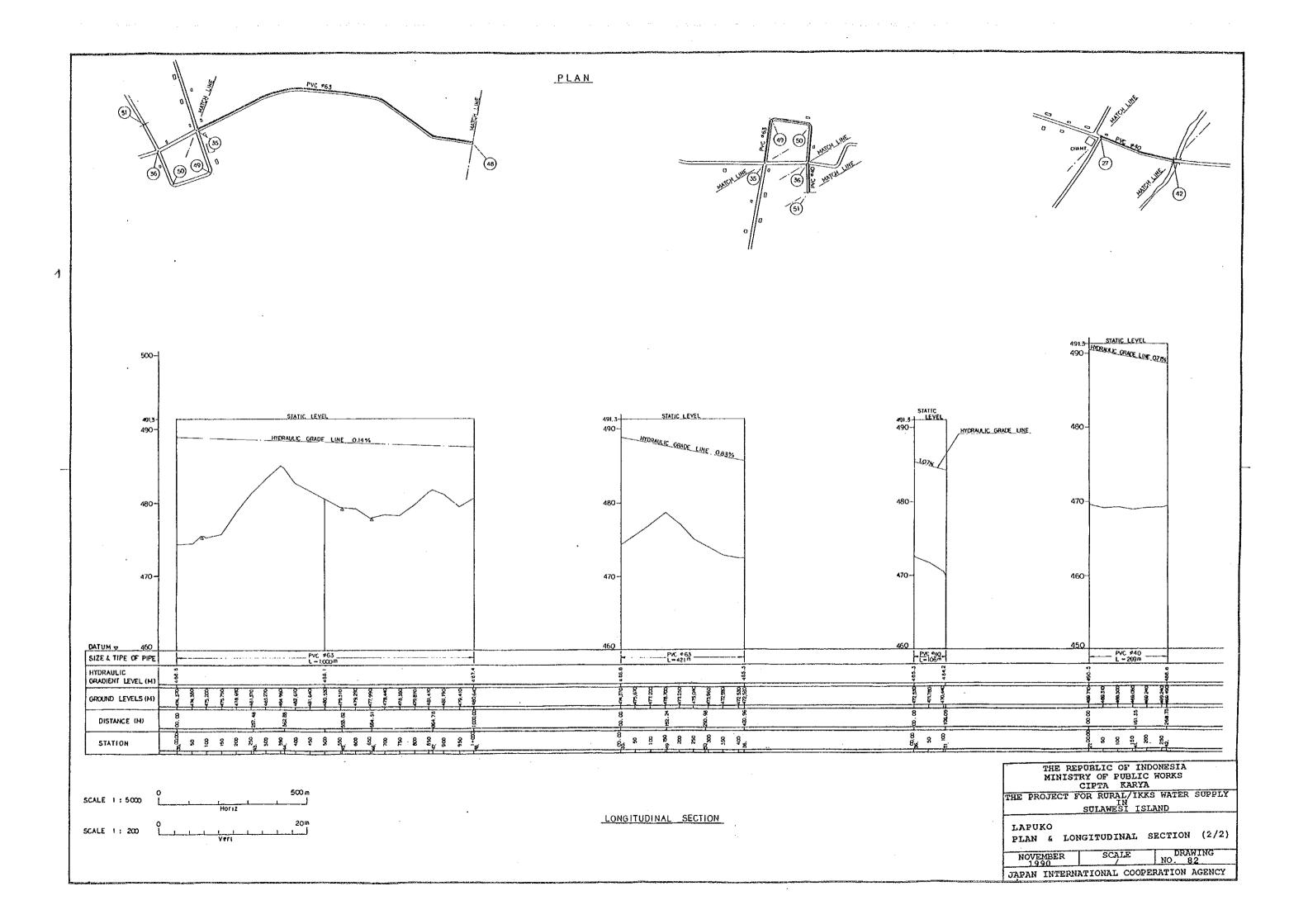


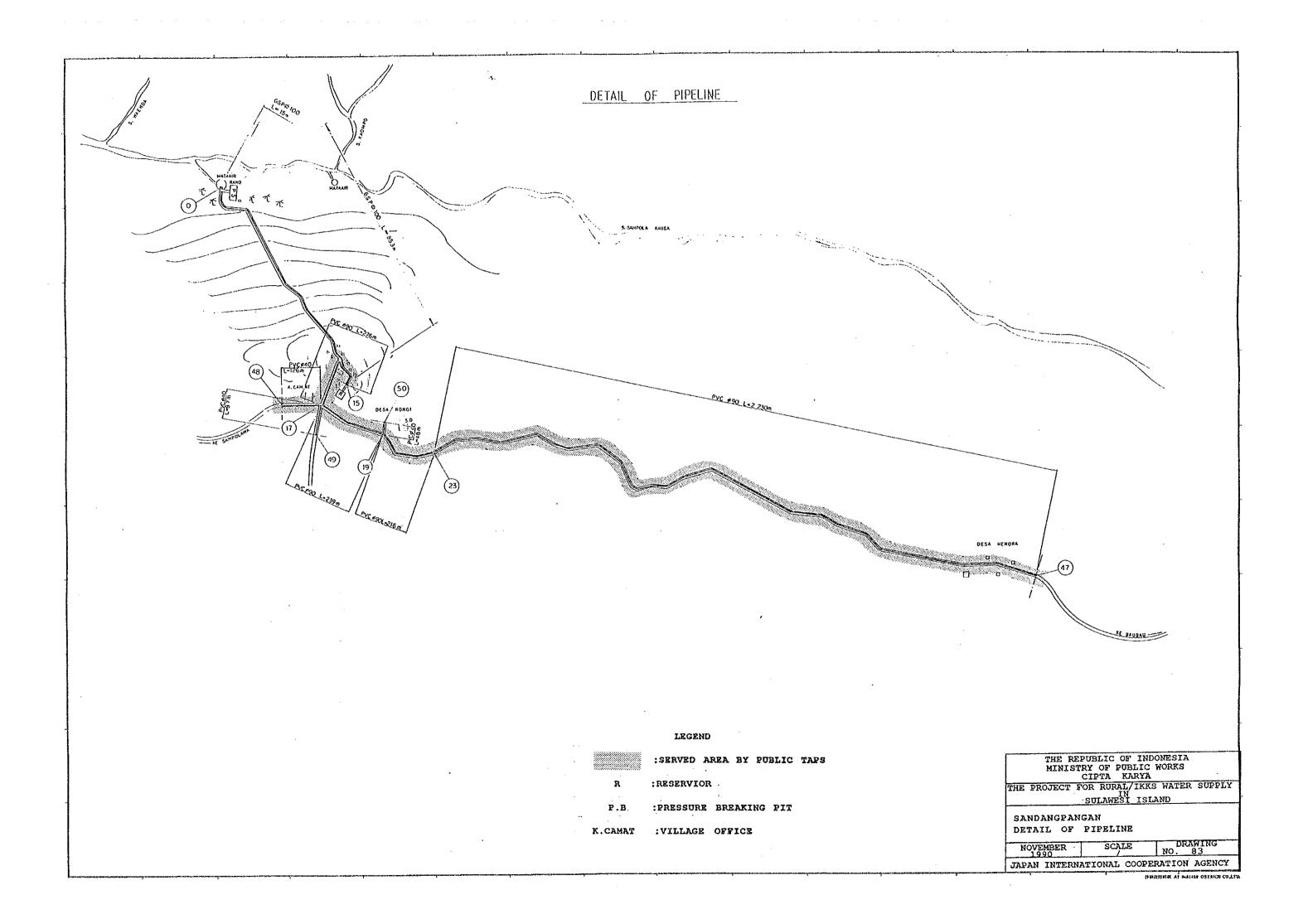


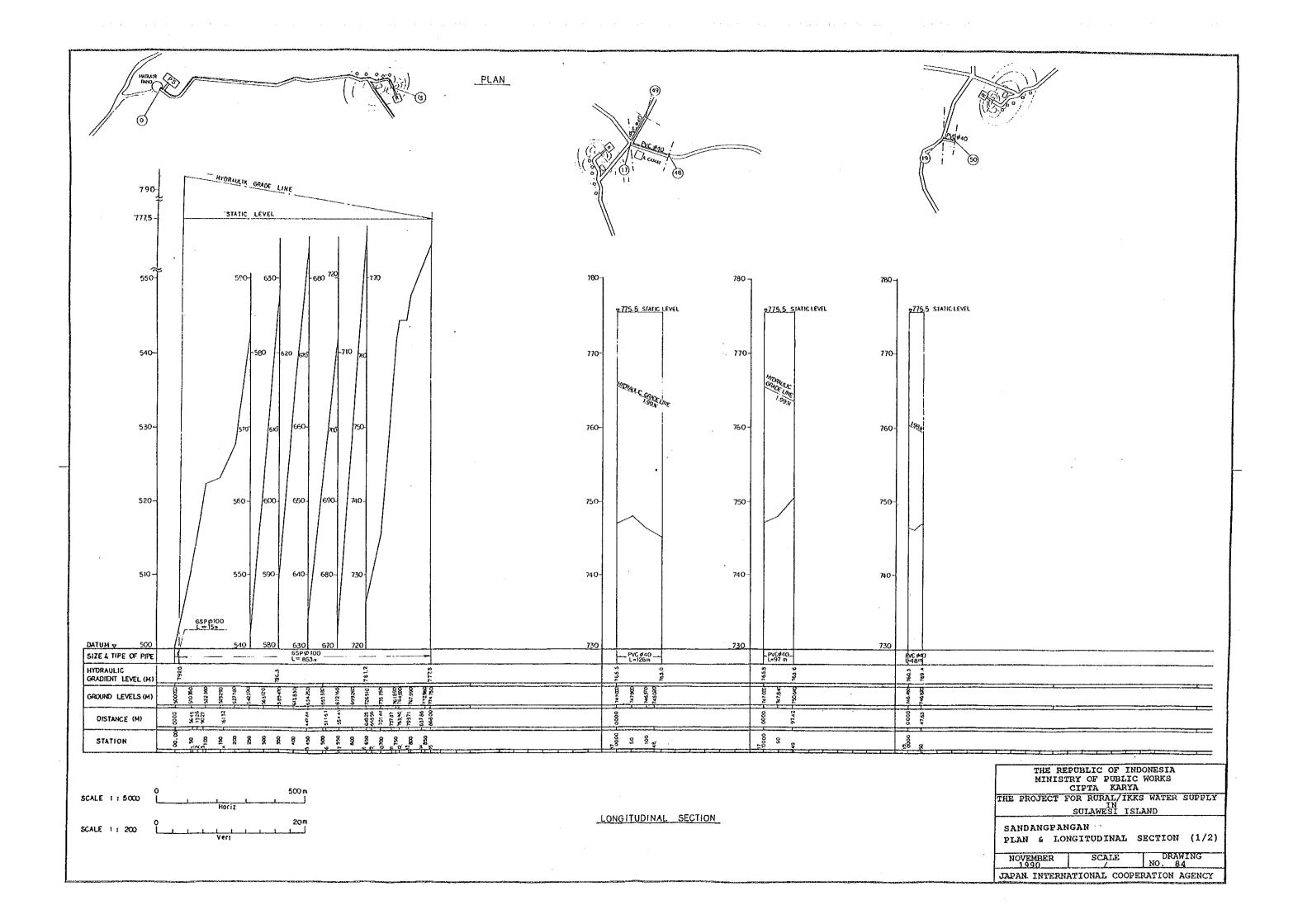


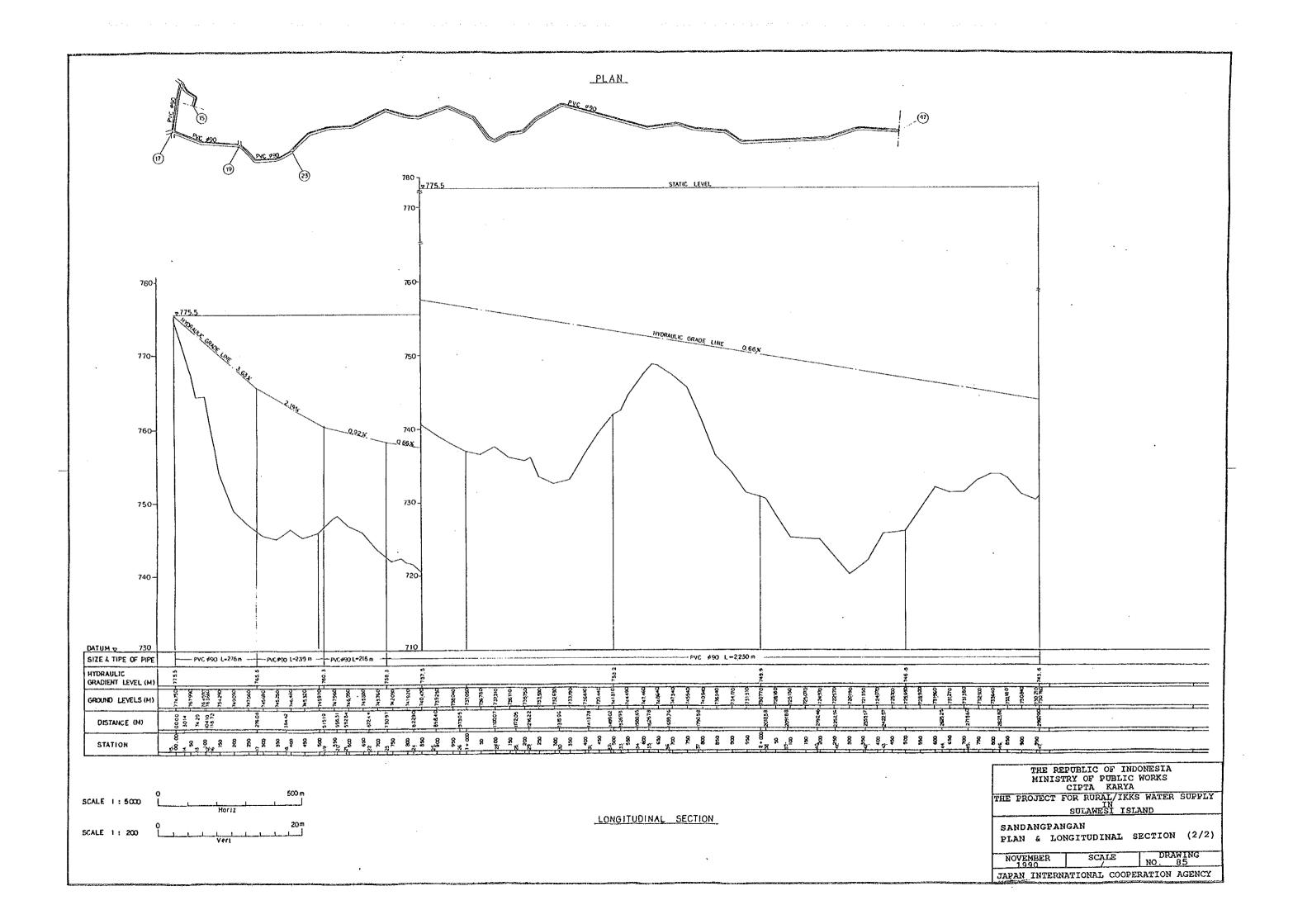




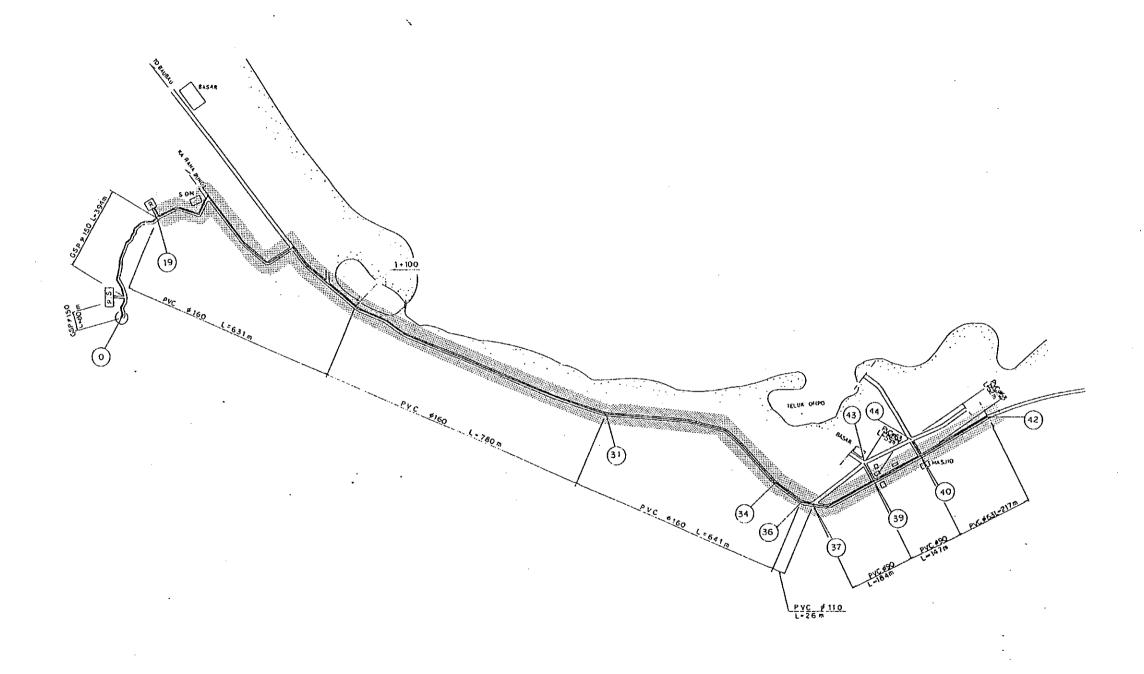








# DETAIL OF PIPELINE



Legend

SERVED AREA BY PUBLIC TAPS

:RESERVIOR

:PRESSURE BREAKING PIT

K, CAMAT

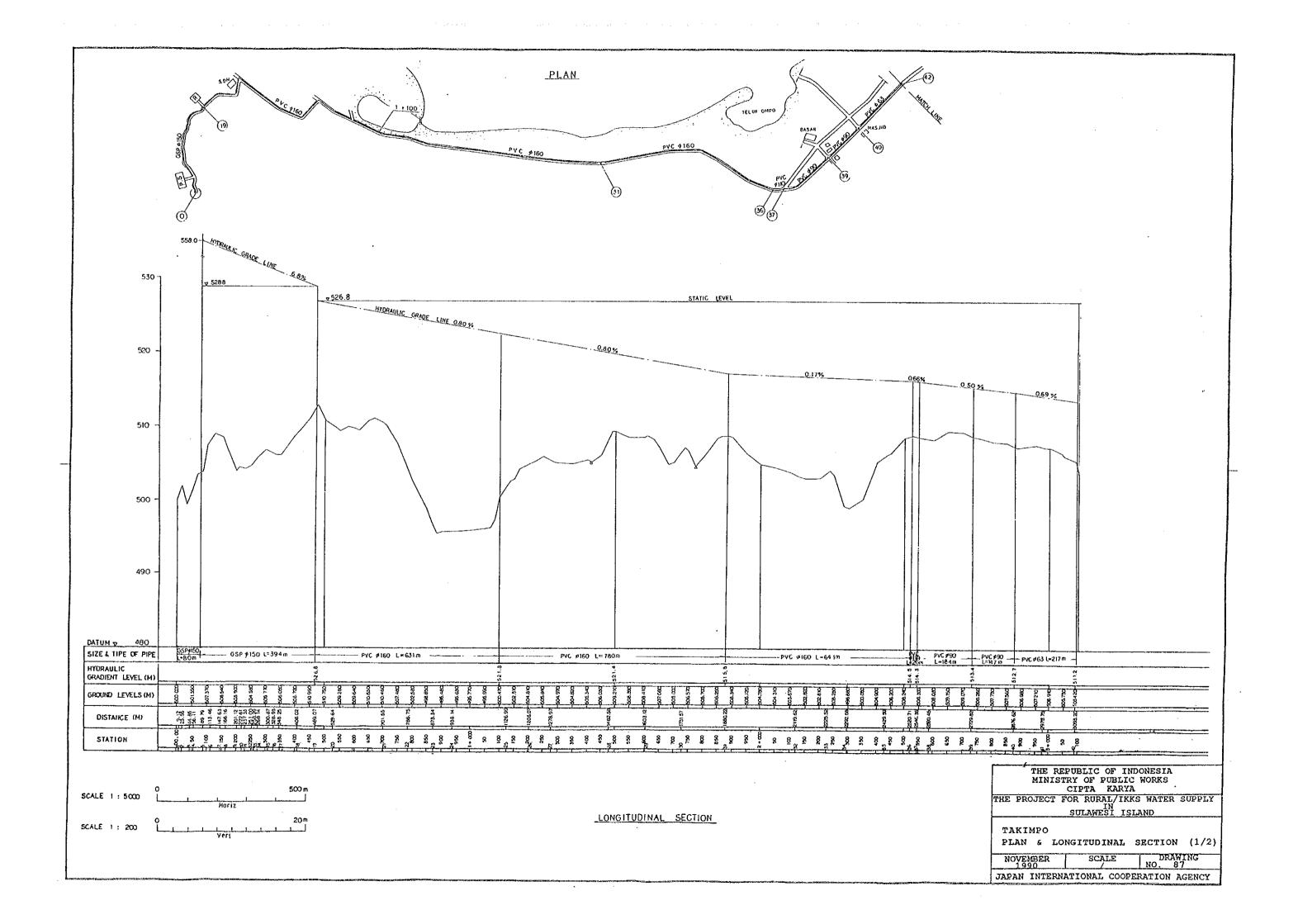
:VILLAGE OFFICE

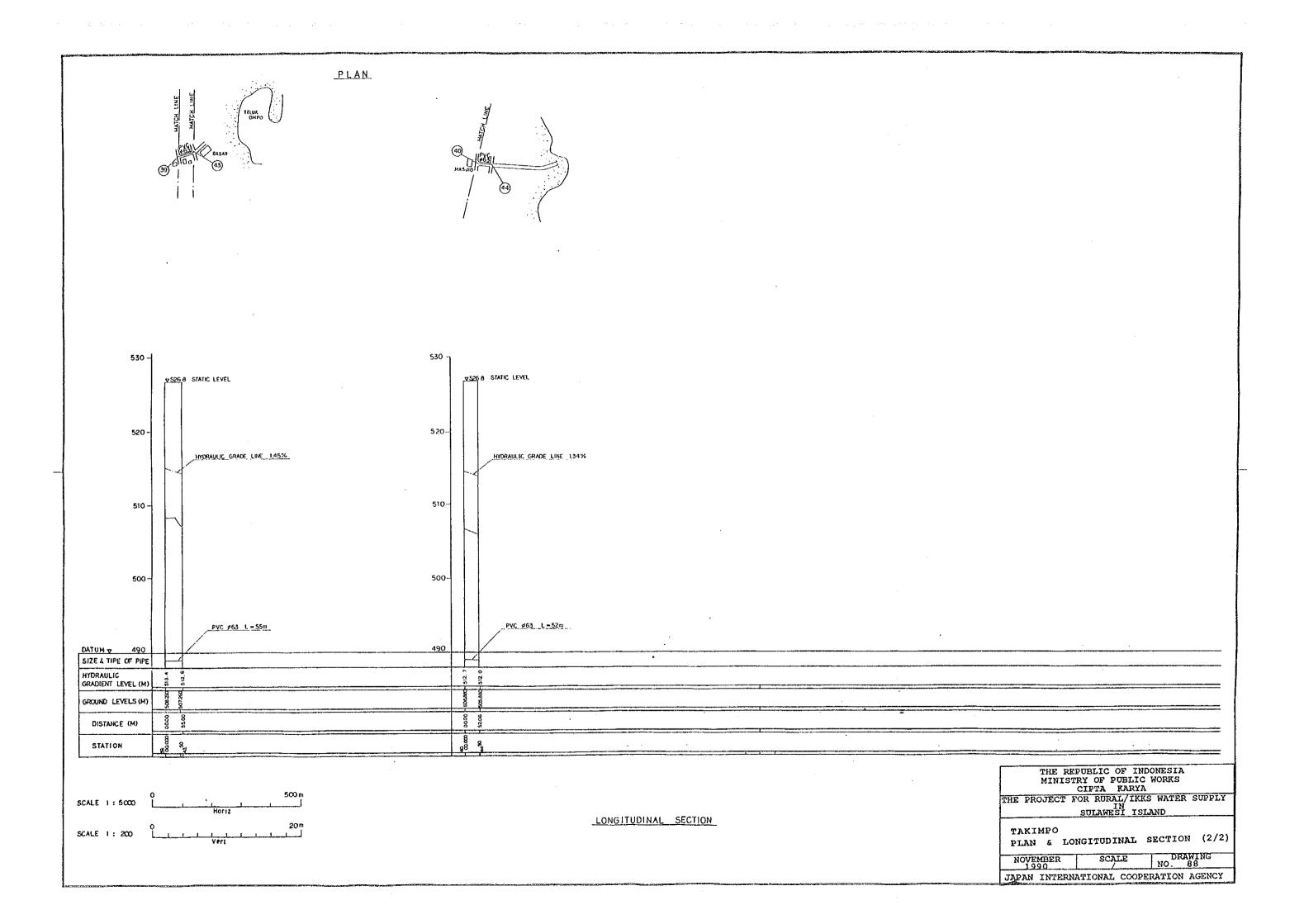
THE	REPUB	LIC	OF	IND	ONES	ΙA
MIN	ISTRY	OF	PUBI	LIC	WORK	S
	CII	$AT^{c}$	KAI	RYA		

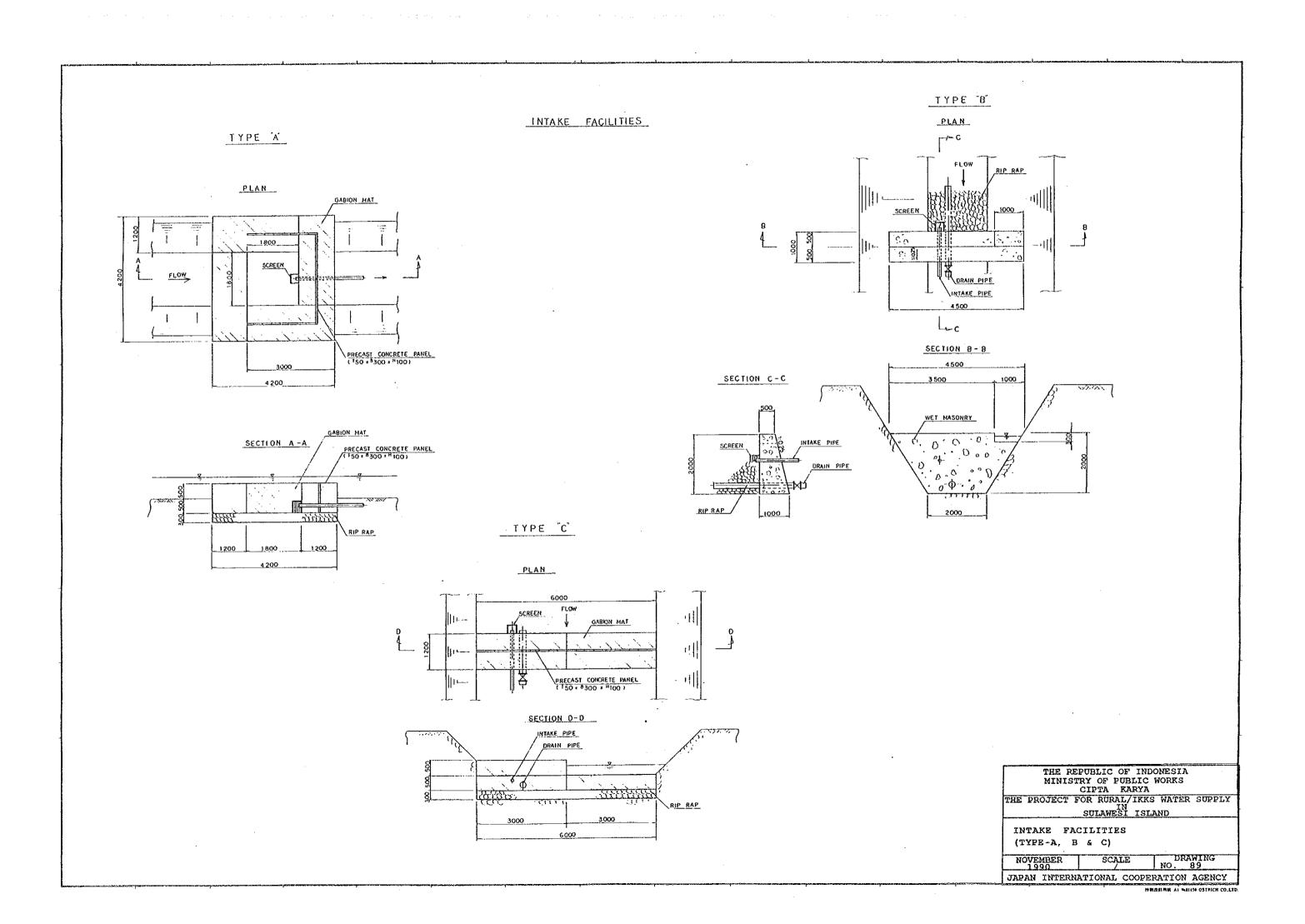
TAKIMPO DETAIL OF PIPELINE

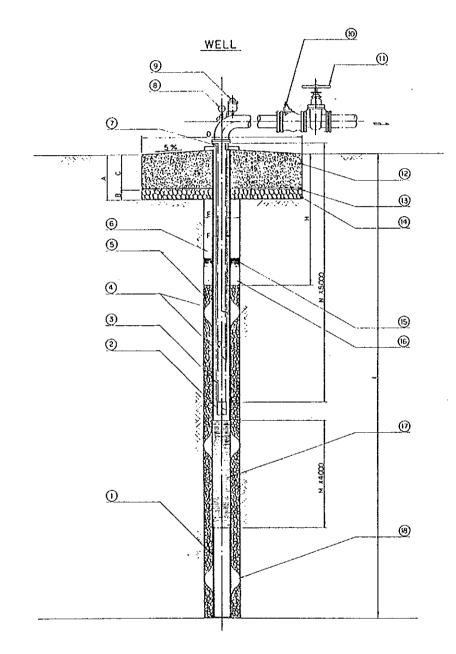
NOVEMBER SCALE DRAWING NO. 86.

JAPAN INTERNATIONAL COOPERATION AGENCY









### LIST OF MEMBERS

NO.	NAMÉ	10	CHECK VALVE
1	CACING	11	SLUICE VALVE
2	PUMP BODY	12	CONCRETE
3	DISCHARGE PIPE	13	REINFORCING BER
4	HOW WATER REVEL ELECTRADE	14	CRUSHED STONE
5	GLAVEL PACK	15	CLAY
6	CEMENT SEAL	16	SAND
7	SUBMERSIBLE CABLE	17	SCREEN
8	PRESSURE GAUGE	18	CENT RISER
9	AIR VENT		<del></del>

### DIMENSIONS

	MASAMBA	
A	650	ma
8	150	p m
ε	500	pe car
D	1800	n n
Ę	400	02
F	200	A.A
Ğ	80	пп
H	15.000	n n
1	80	ra.
N	12	nas.
×	5	nos.

A	650	m m
8	150	m pe
C	500	an
D	1.800	пя
E	400	8.8
F	200	fit IR
Ğ	80	88
н	15.000	(A E)
ï	51	m.
N	7	101
м	4	nas.

	SALAKAN	
A	650	<b>60</b>
8	150	M D
C	500	R.P.
0	1.800	72
Ε	400	d R
F	200	NR.
G	80	fs #A
Н	15.000	BA
1	42	m
М	6	nos.
М	3	nos.

THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
CIPTA KARYA

THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

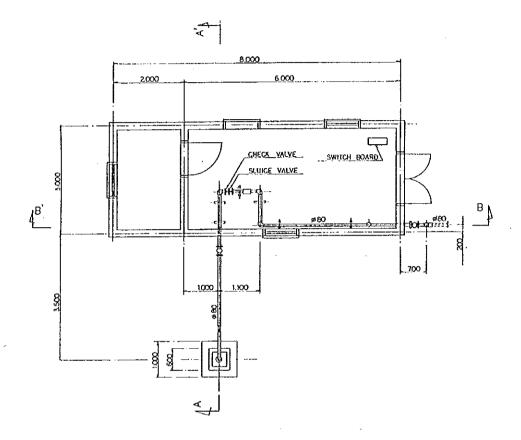
DETAIL OF DEEP TUBE WELL

NOVEMBER SCALE DRAWING
1990 / NO. 90

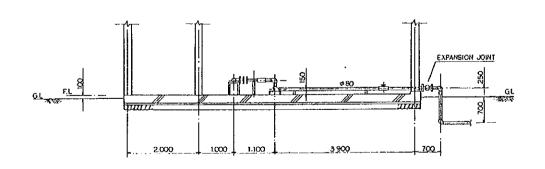
JAPAN INTERNATIONAL COOPERATION AGENCY

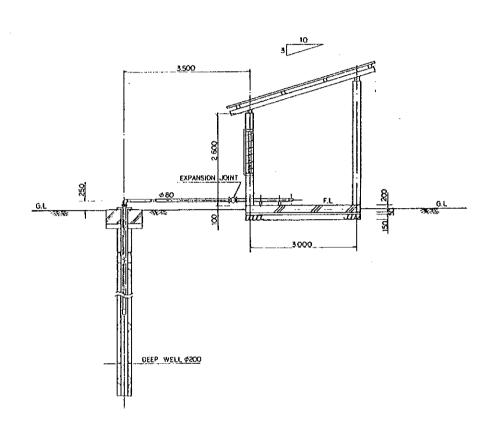
PLAN

SECTION A - A'



SECTION 8 - B'





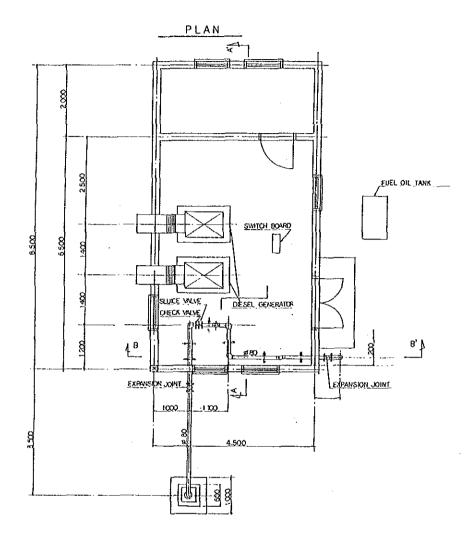
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
CIPTA KARYA
THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

PUMPING STATION (1/5)

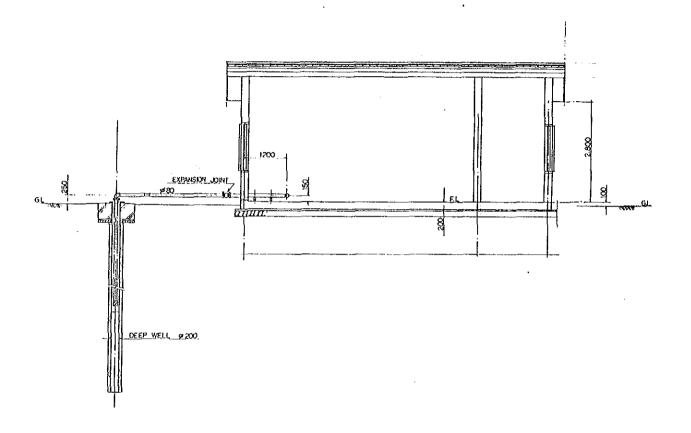
NOVEMBER SCALE DRAWING
1990 / NO. 91

JAPAN INTERNATIONAL COOPERATION AGENCY

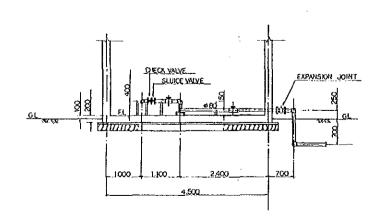
PUMPING STATION (5=1/50)



SECTION A-A



SECTION B-B'



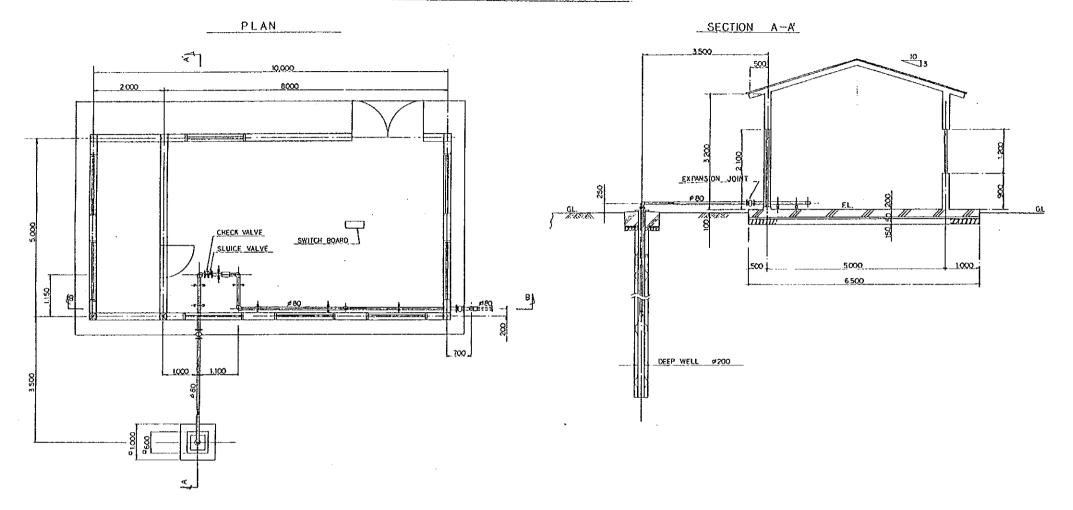
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
CIPTA KARYA
THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

PUMPING STATION (2/5)

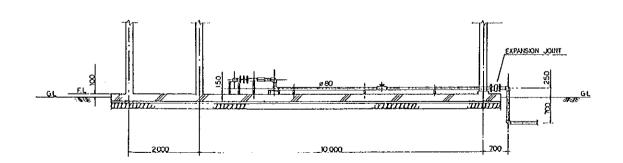
1990 / NO. 92

JAPAN INTERNATIONAL COOPERATION AGENCY

# PUMPING STATION (S=1/50)



### SECTION B-B'



THE REPUBLIC OF INDONESIA

MINISTRY OF PUBLIC WORKS

CIPTA KARYA

THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

PUMPING STATION (3/5)

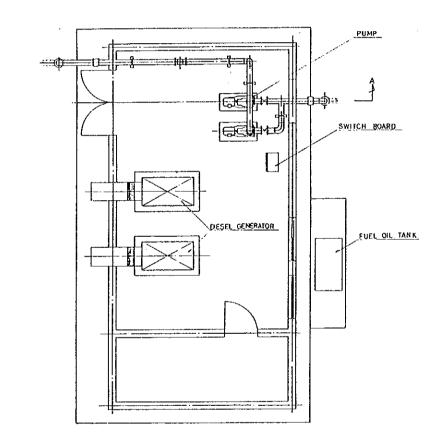
NOVEMBER SCALE DRAWING
1990 / NO. 93

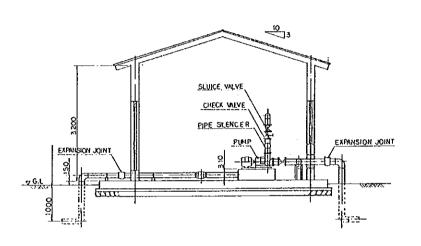
JAPAN INTERNATIONAL COOPERATION AGENCY

## PUMPING STATION (S=1/50)

PLAN .

SECTION A - A





THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
CIPTA KARYA

THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

PUMPING STATION (4/5)

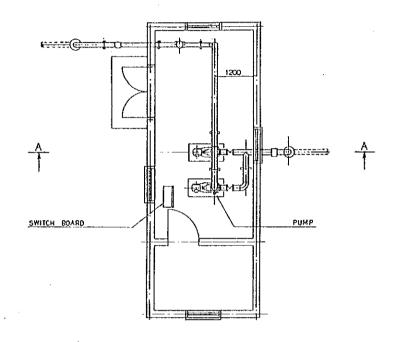
NOVEMBER SCALE DRAWING
1990 NO. 94

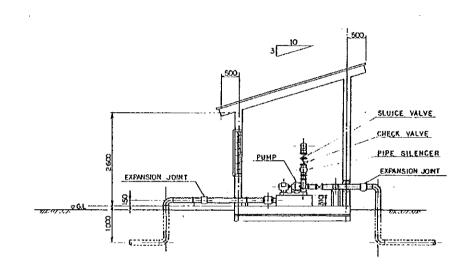
JAPAN INTERNATIONAL COOPERATION AGENCY

HORRINGE AT MARIES OSTRICE CO.LTD.

PLAN

SECTION A - A



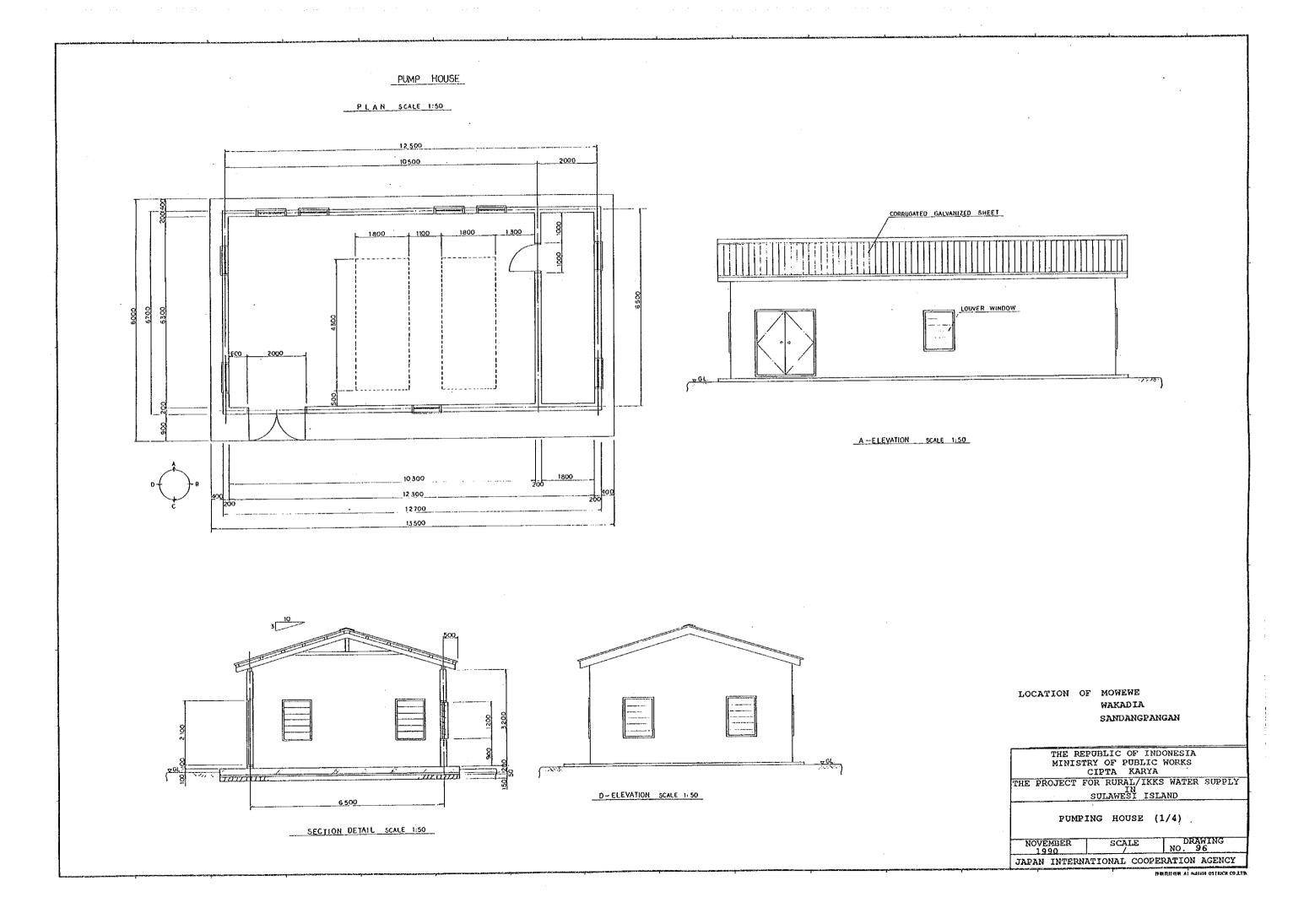


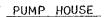
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
CIPTA KARYA
THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

PUMPING STATION (5/5)

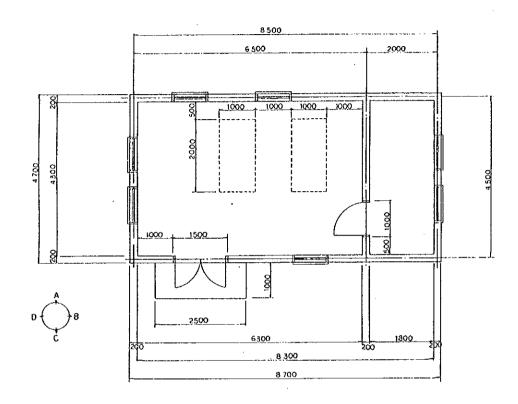
NOVEMBER SCALE DRAWING
1990 NO. 95

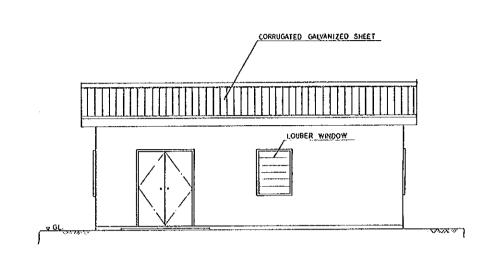
JAPAN INTERNATIONAL COOPERATION AGENCY



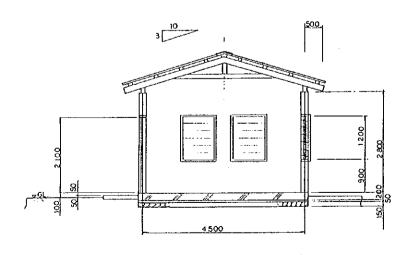


### PLAN SCALE 1:50

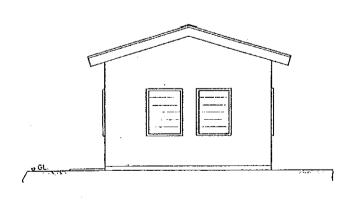




A-ELEVATION SCALE 1:50



SECTION DETAIL SCALE 1:50



D-ELEVATION SCALE 1:50

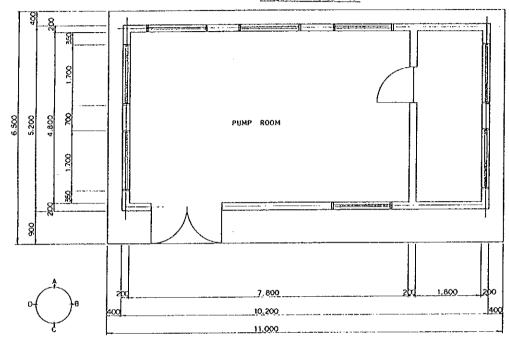
## LOCATION OF SALAKAN

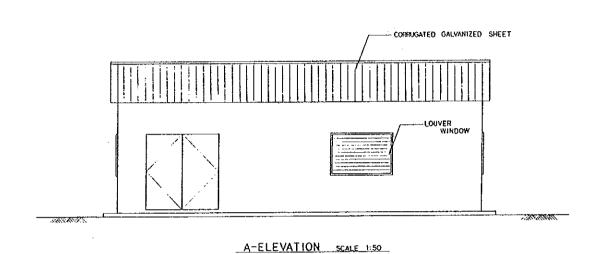
	EPUBLIC OF I TRY OF PUBLI CIPTA KARY	C WORKS		
CIPTA KARYA THE PROJECT FOR RURAL/IKKS WATER SU IN SULAWESI ISLAND				
PUM	PING HOUSE	(2/4)		
NOVEMBER 1990	SCALE	DRAWING NO. 97		
		PERATION AGENCY		

HUBINUR VI ETITES GALECIA COTTO

PUMP HOUSE

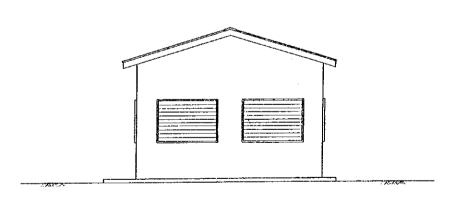
PLAN SCALE 1:50





900

SECTION DETAIL SCALE 1:50



D-ELEVATION SCALE 1:50

LOCATION OF LANDONO BONEBOBAKAL LAOMPO

TAKIMPO

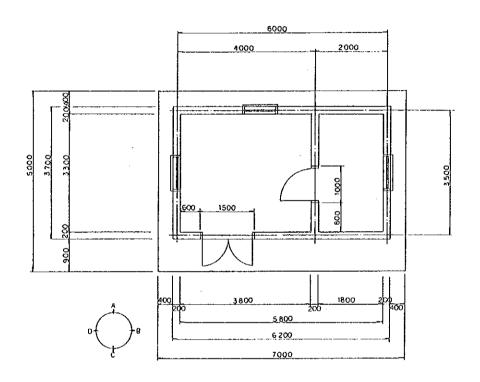
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
CIPTA KARYA
THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

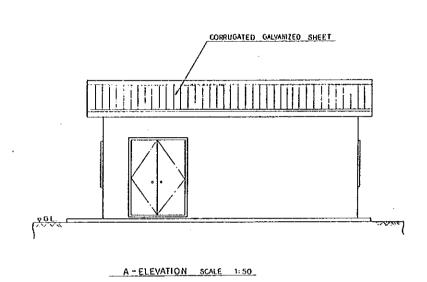
PUMPING HOUSE (3/4)

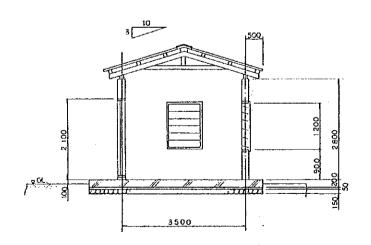
NOVEMBER 1990 SCALE NO. 98

JAPAN INTERNATIONAL COOPERATION AGENCY PERMITE AL MAINS DEFEICH COLLTD.

#### PLAN SCALE 1:50







SECTION DETAIL SCALE 1:50

LOUVER WINDOW

•

LOCATION OF MASAMBA

THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
CIPTA KARYA
THE PROJECT FOR RURAL/IKKS WATER SUPPLY
IN
SULAWESI ISLAND

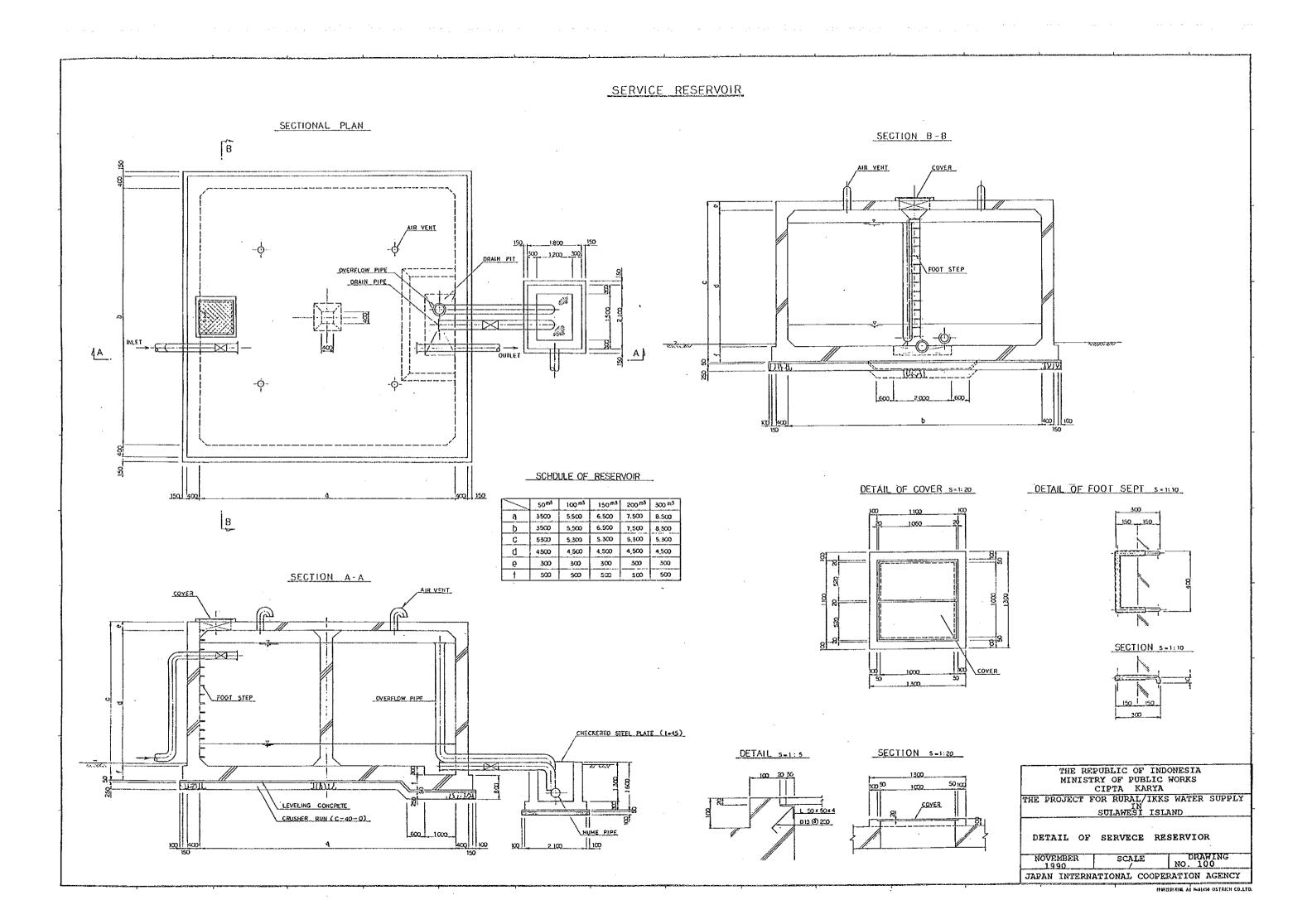
ANDONOUHU

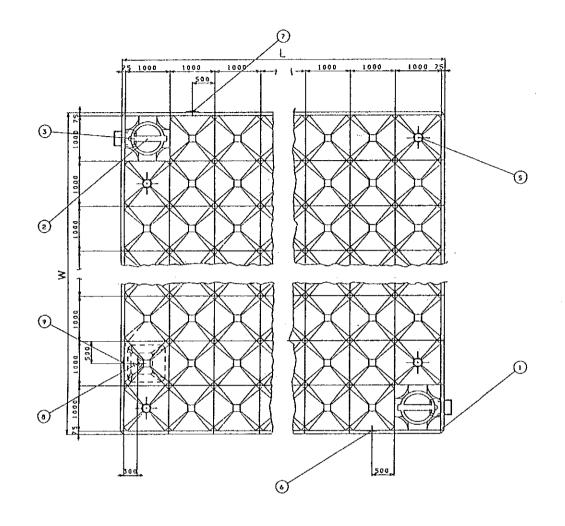
PUMPING HOUSE (4/4)

NOVEMBER SCALE DRAWING NO. 99

JAPAN INTERNATIONAL COOPERATION AGENCY

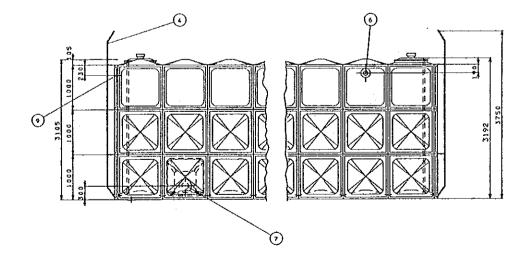
D-ELEVATION SCALE 1:50





#### DIMENSIONS

			·······		
SITE	TANK CAPACITY				
3115	M 3	W (M)	L (M)	H (M)	HÍGHT (M)
MASAMBA	300	10	10	3	15
LANDONO	150	7	7. 5	3	10
MOWEWE	150	7	7. 5	. 3	10
WAKADIA	150	7	7. 5	3	50
LAPUKO	100	6	6	3	50
TAKIMPO	200	8	8.5	3	15
UHONOGNA	150	7	7.5	3	20

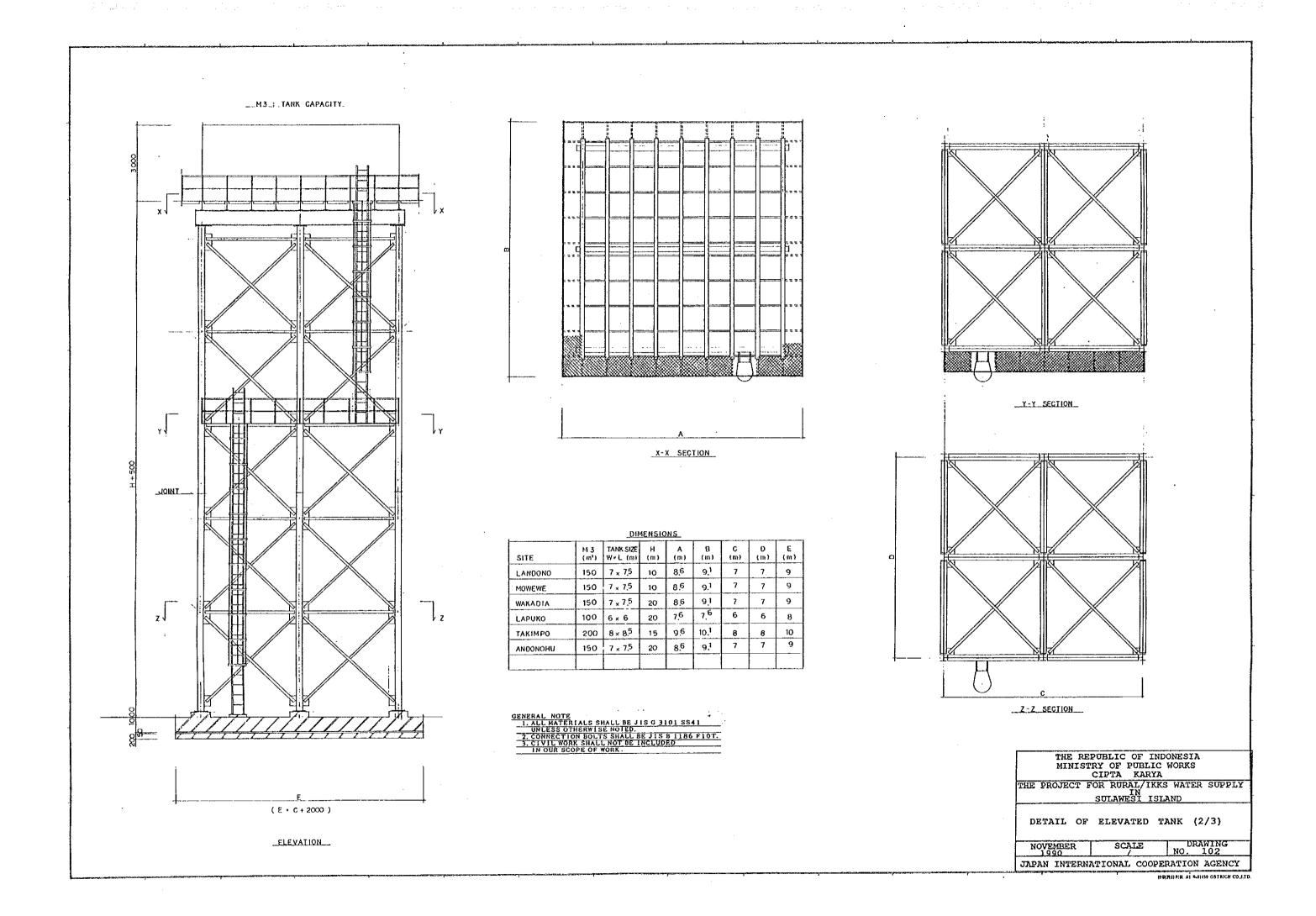


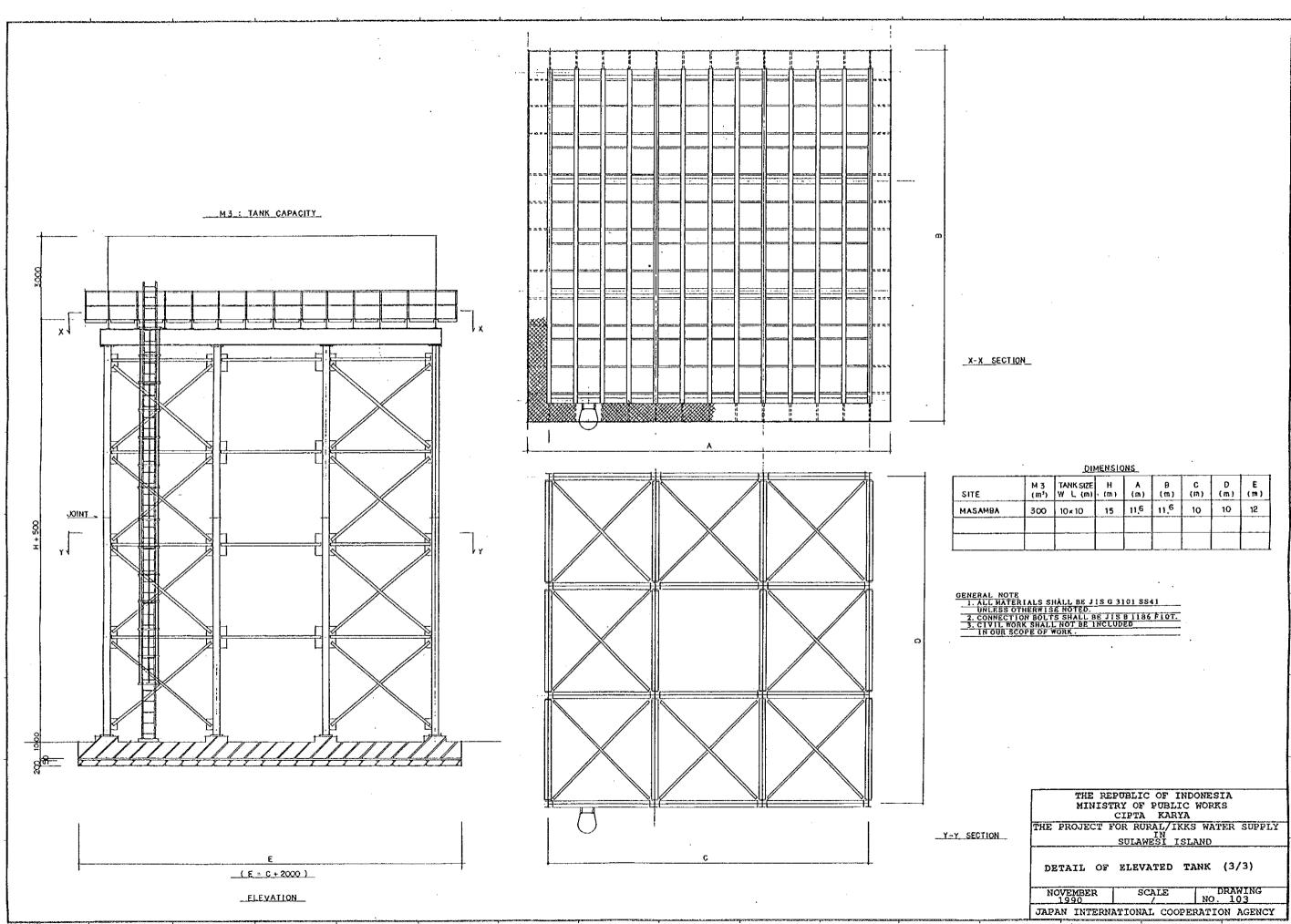
### FRP WATER TANK

No.	11 8 11 6	MATERIAL	5	IZE	OR dT	Υ
	N A M E	TANK	300	200	150	100
ı	WATER TANK	F. R. P	1	i	1	1
5	HANHOLE	F. R. P	5	5	2	1
3	INTERNAL LADOER	F. R. P	2	5	2	1
- 4	EXTERNAL LADDER	5. G. P	2	2	2	1
5	AIR VENT (100A)	P. V. C	6	6	4	4
6	INLET	516EL	100	80	80	80
7	<b>0UTLET</b>	STEEL	150	150	150	100
8	DRAINAGE	STEEL	80	50	50	50
9	OVER FLOW	STEEL	150	100	100	100

NOTE
i. Bridgestone with one to be noted tiable? If the erection of our water tank is not made in eccordance with tank dimension shown in the

	THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS CIPTA KARYA				
THE PROJECT E	FOR RURAL/IKI IN SULAWESI IS	KS WATER SUPPLY LAND			
DETAIL OF	ELEVATED T	ANK (1/3)			
NOVEMBER 1990	SCALE	DRAWING NO. 101			
JAPAN INTERN	ATIONAL COOP	ERATION AGENCY			



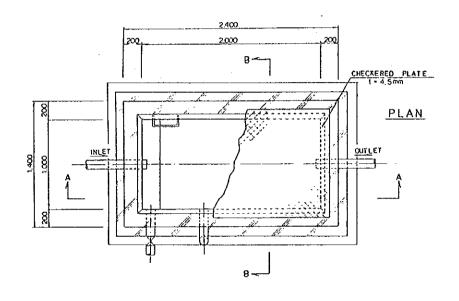


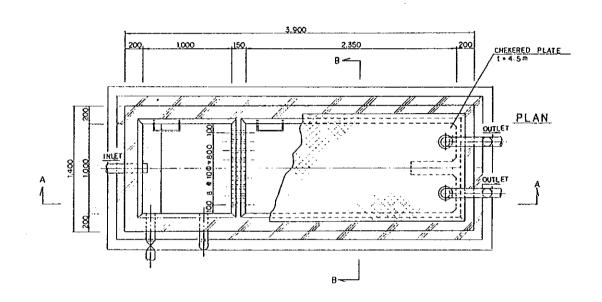
SAND SETTLING PIT

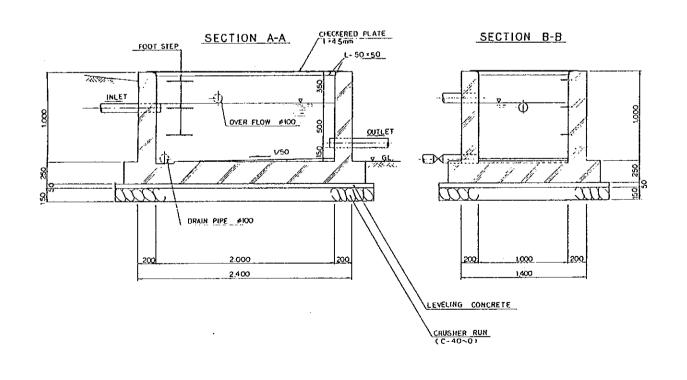
AT ULSALU, LIANG (5-1/20)

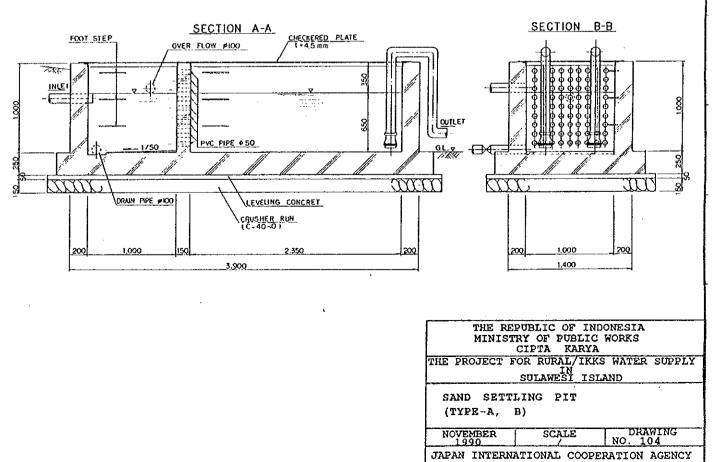
SAND SETTLING PIT

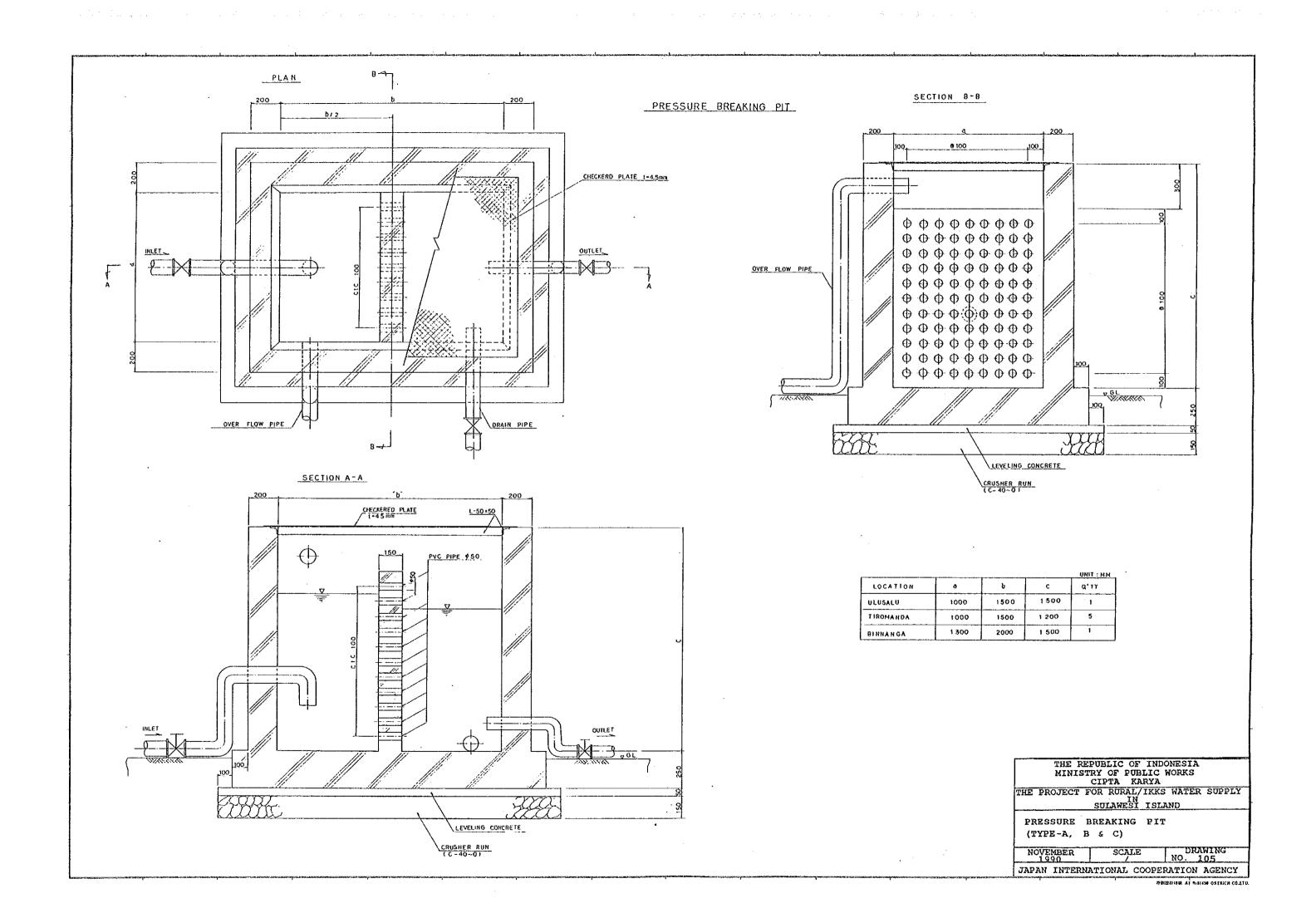
AT ANDUONOHU, MOWEWE, LAOMPO (\$ - 1/20)





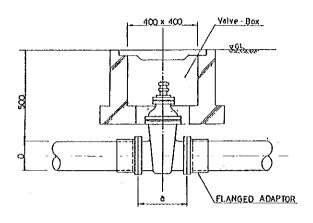






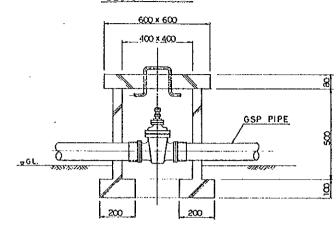


SLUICE VALVE

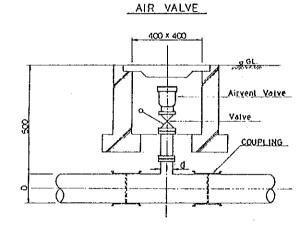




SLUICE VALVE



AIR VALVE



	Q(mm)	D(mm)	Discription
ø 50	50	63	Single Airvent Valve
ø80	75	90	
<b></b> 100	75	110	
<b></b> 150	75	150	•
<b>9200</b>	75	200	•
Ф250	75	250	•

Ф80

Ф100

Ø150

۵500

ø250

240

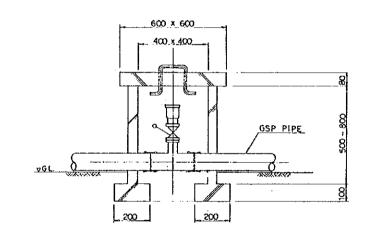
250

280 160

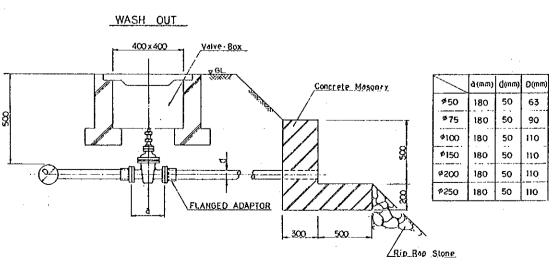
300 200 380 250

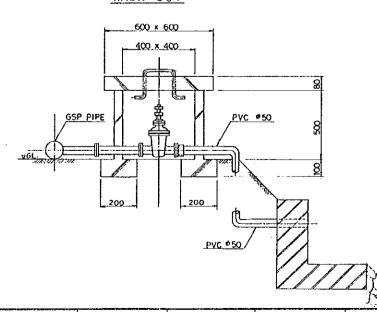
90

110









THE REPUBLIC OF INDONESIA

MINISTRY OF PUBLIC WORKS

CIPTA KARYA

THE PROJECT FOR RURAL/IKKS WATER SUPPLY

SULAWESI ISLAND

VALVE CHAMBER

(SLUCE VALVE,

AIR VALVE & WASH OUT)

NOVEMBER SCALE DRAWING
1990 NO. 106

JAPAN INTERNATIONAL COOPERATION AGENCY

SMM STAR AT MATES OFFICE COLLED.

