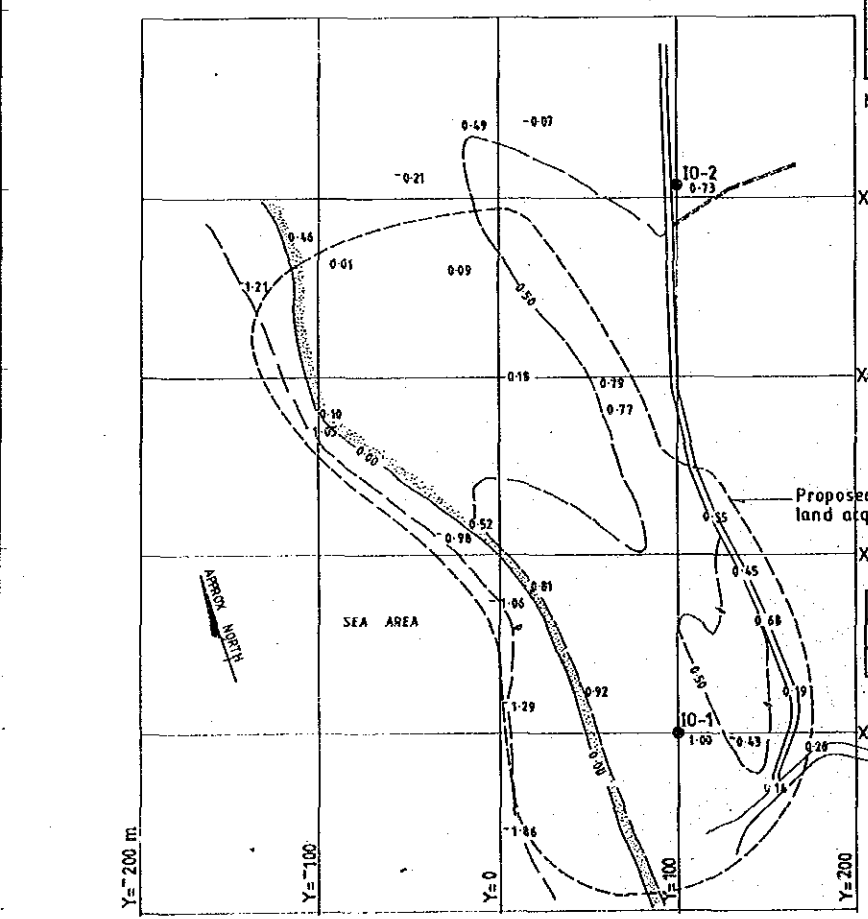


TRAVERSE POINTS

NO	X (m)	Y (m)	R.H.(m)
TA-1	500.00	500.00	10.00
TA-2	508.45	500.00	16.71

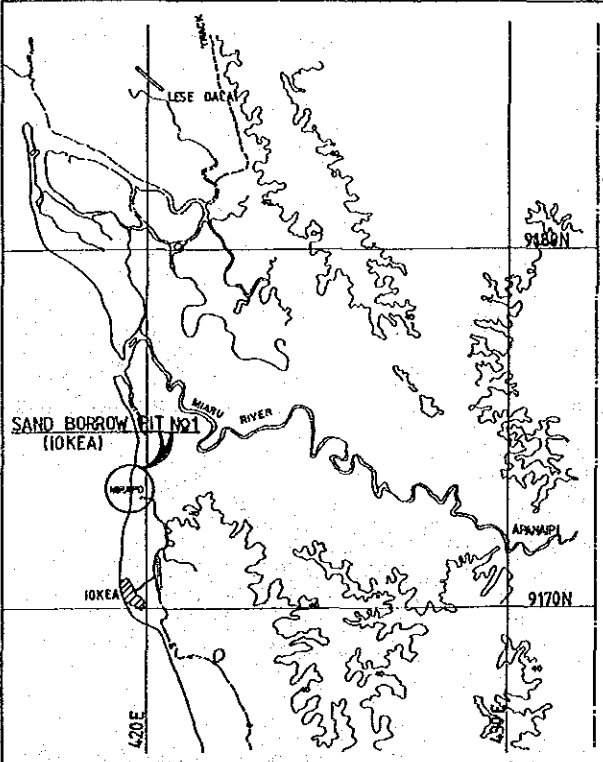
NOTE THE ABOVE DATA REPRESENT ASSUMED CO-ORDINATES AND HEIGHTS



TRAVERSE POINTS

NO	X (m)	Y (m)	R.H.(m)
KO-1	200.000	200.00	0.30
KO-2	233.58	196.64	0.53

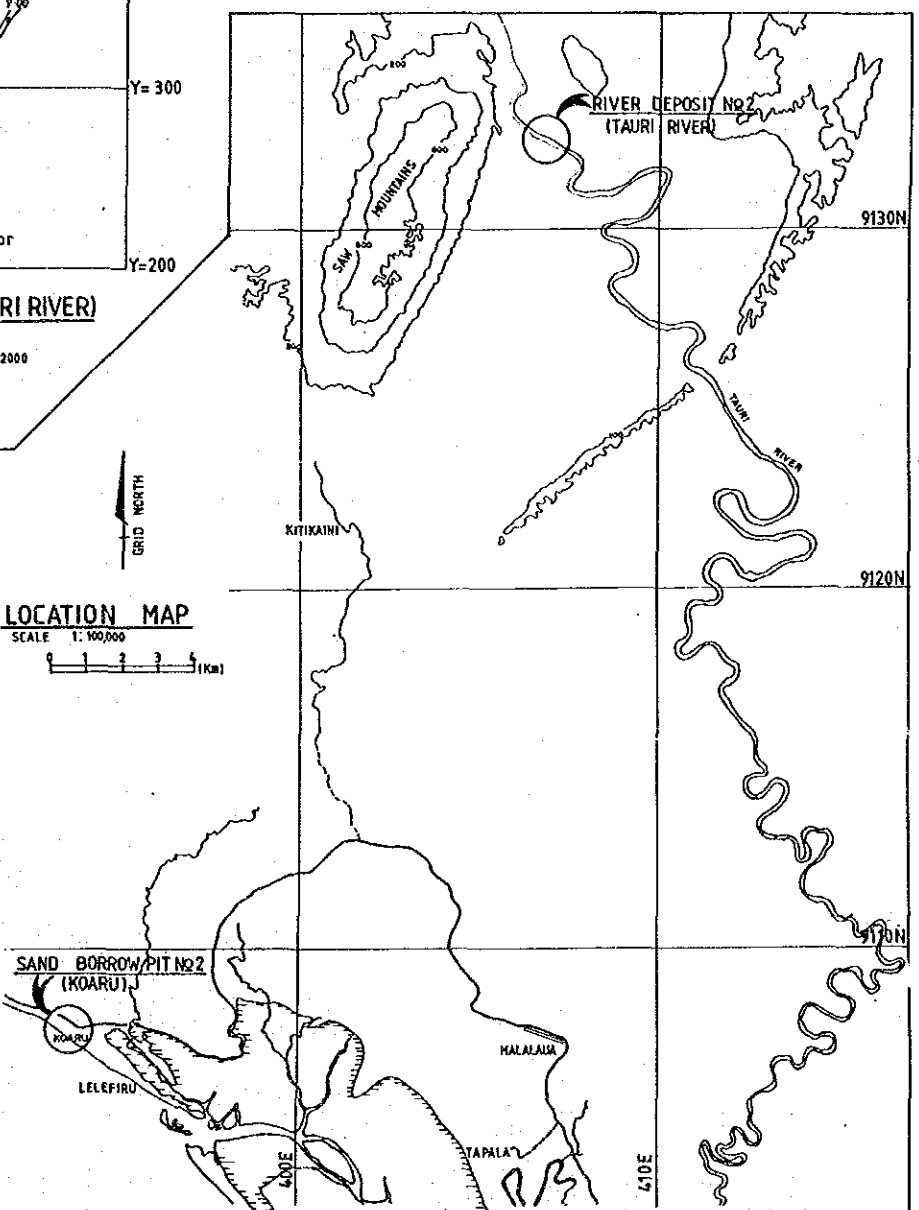
NOTE THE ABOVE DATA REPRESENT ASSUMED CO ORDINATES AND HEIGHT



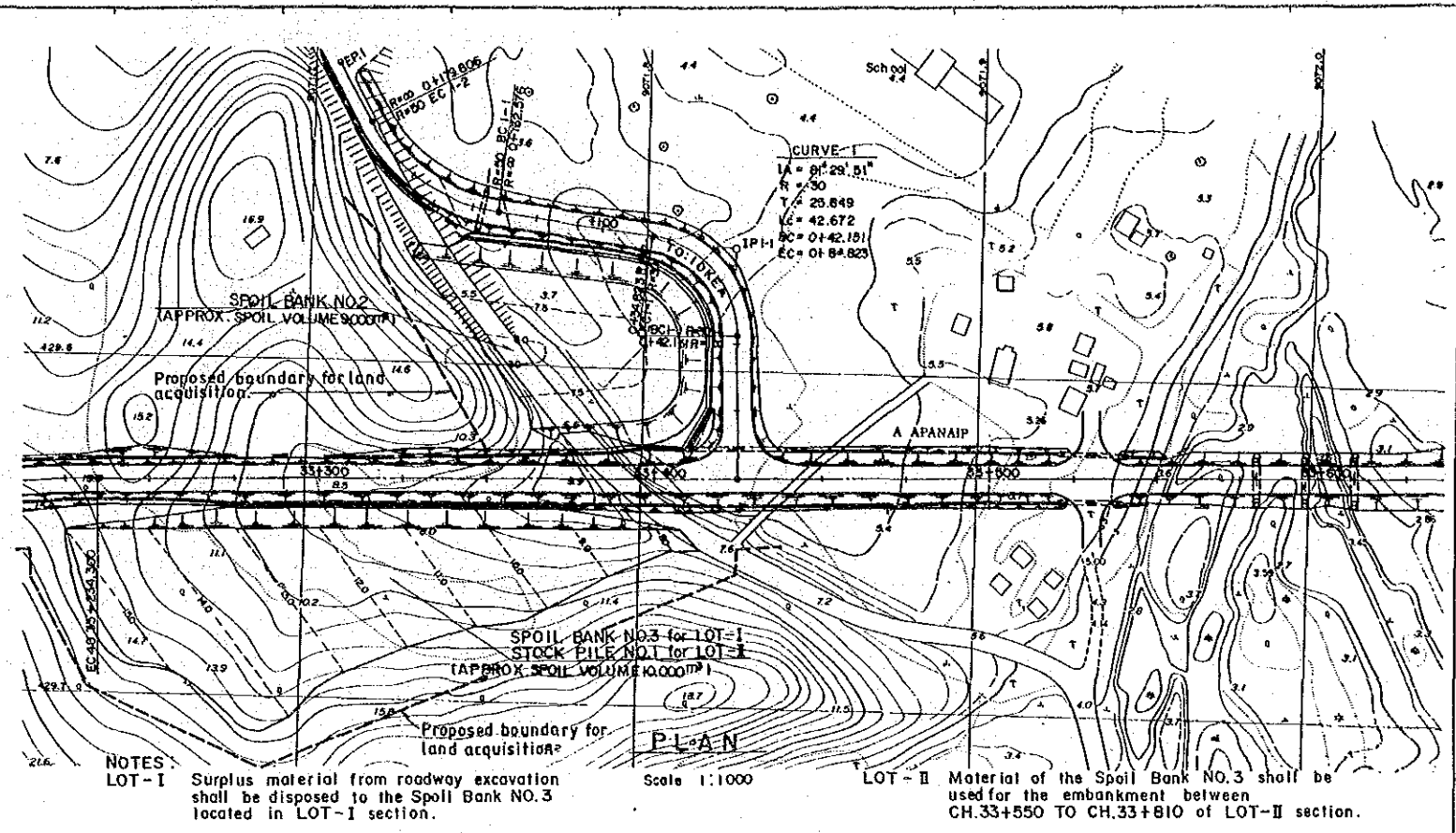
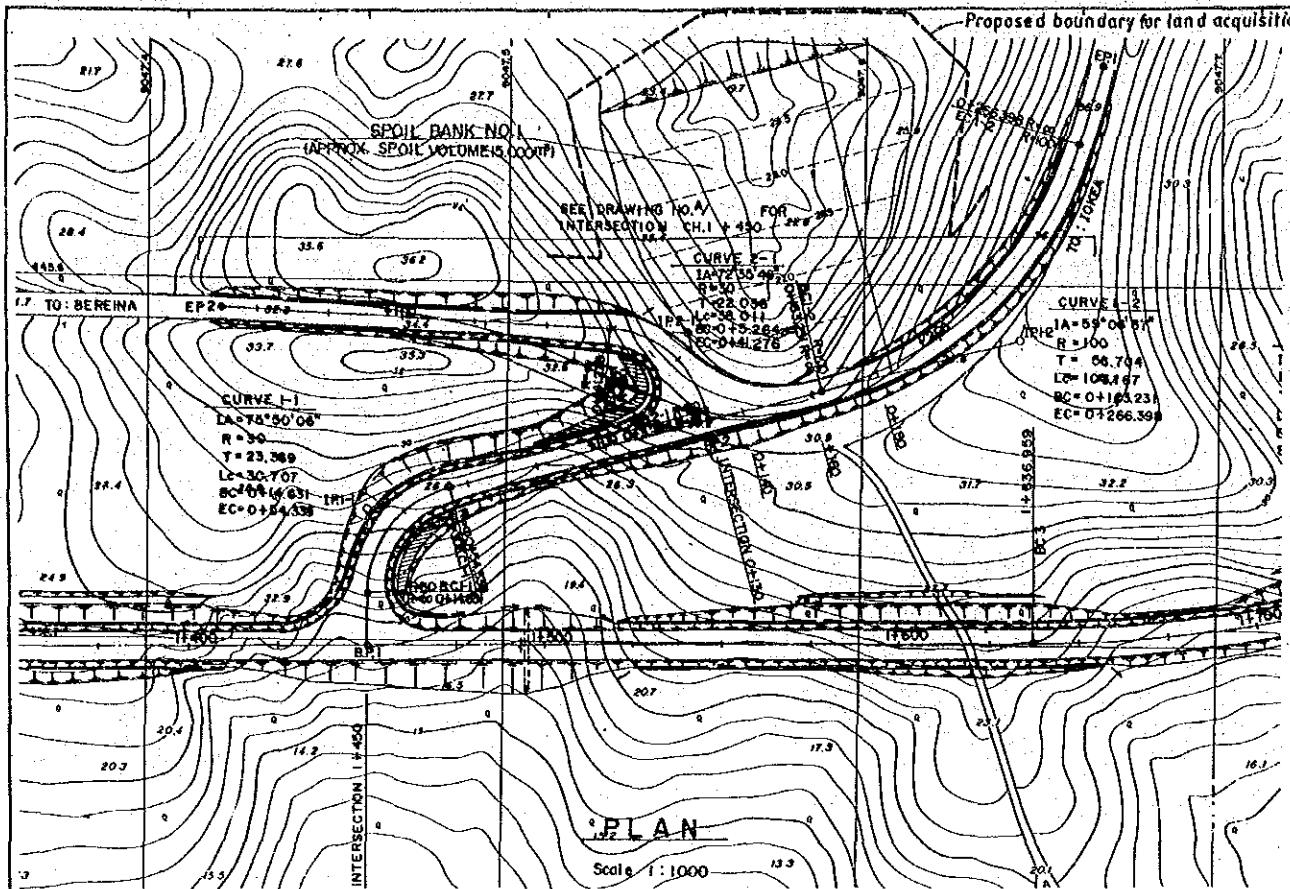
TRAVERSE POINTS

NO	X (m)	Y (m)	R.H.(m)
IO-1	100.000	100.00	1.00
IO-2	405.47	100.00	0.73

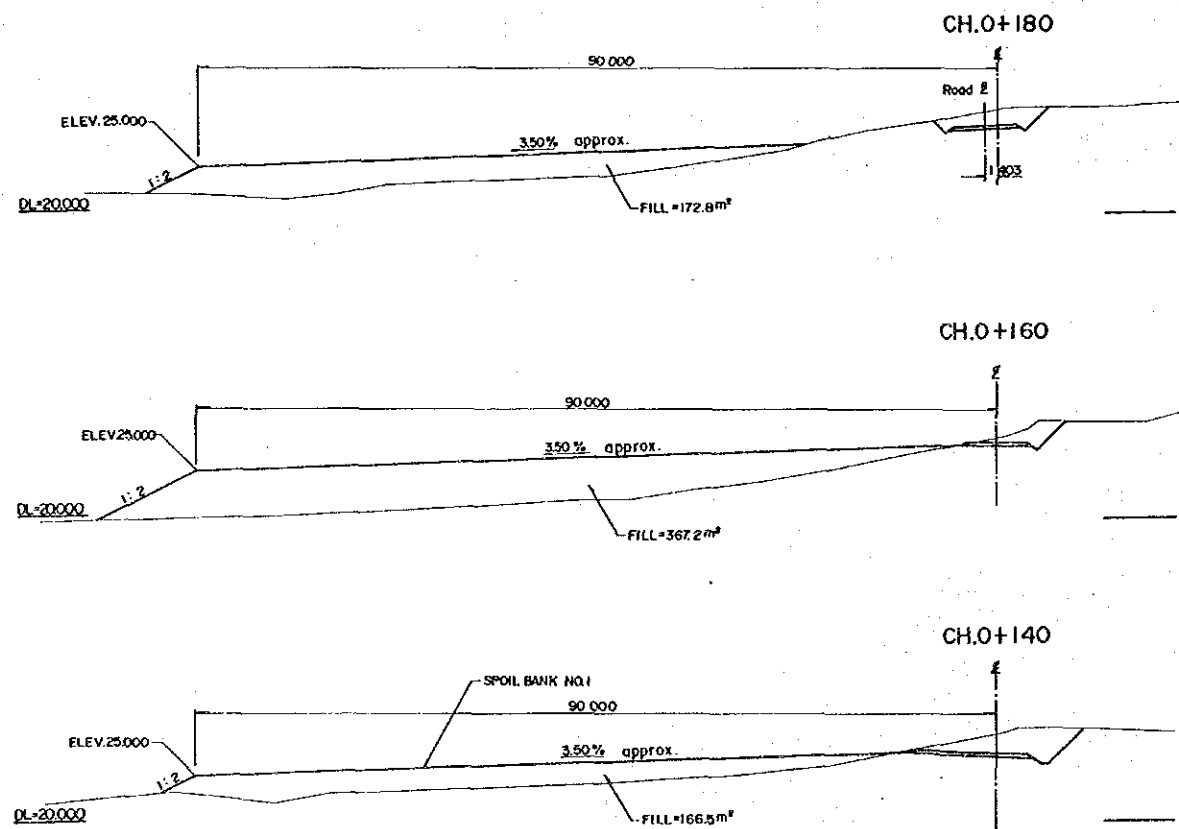
NOTE THE ABOVE DATA REPRESENT ASSUMED CO-ORDINATES AND HEIGHT



REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	DESIGN	DRAWN	RECOMMENDED	SCALE	SHEET	PROJECT No.	PAPUA NEW GUINEA	DRAWING No.
					JICA	JAPAN INTERNATIONAL CO-OPERATION AGENCY	K. E.	AS SHOWN					
					VERTICAL DATUM MEAN SEA LEVEL		CHECKED	APPROVED					A1 88078
					HORIZONTAL DATUM		DESIGNED	SECRETARY					
					SURVEY BOOK No.8		CHECKED						

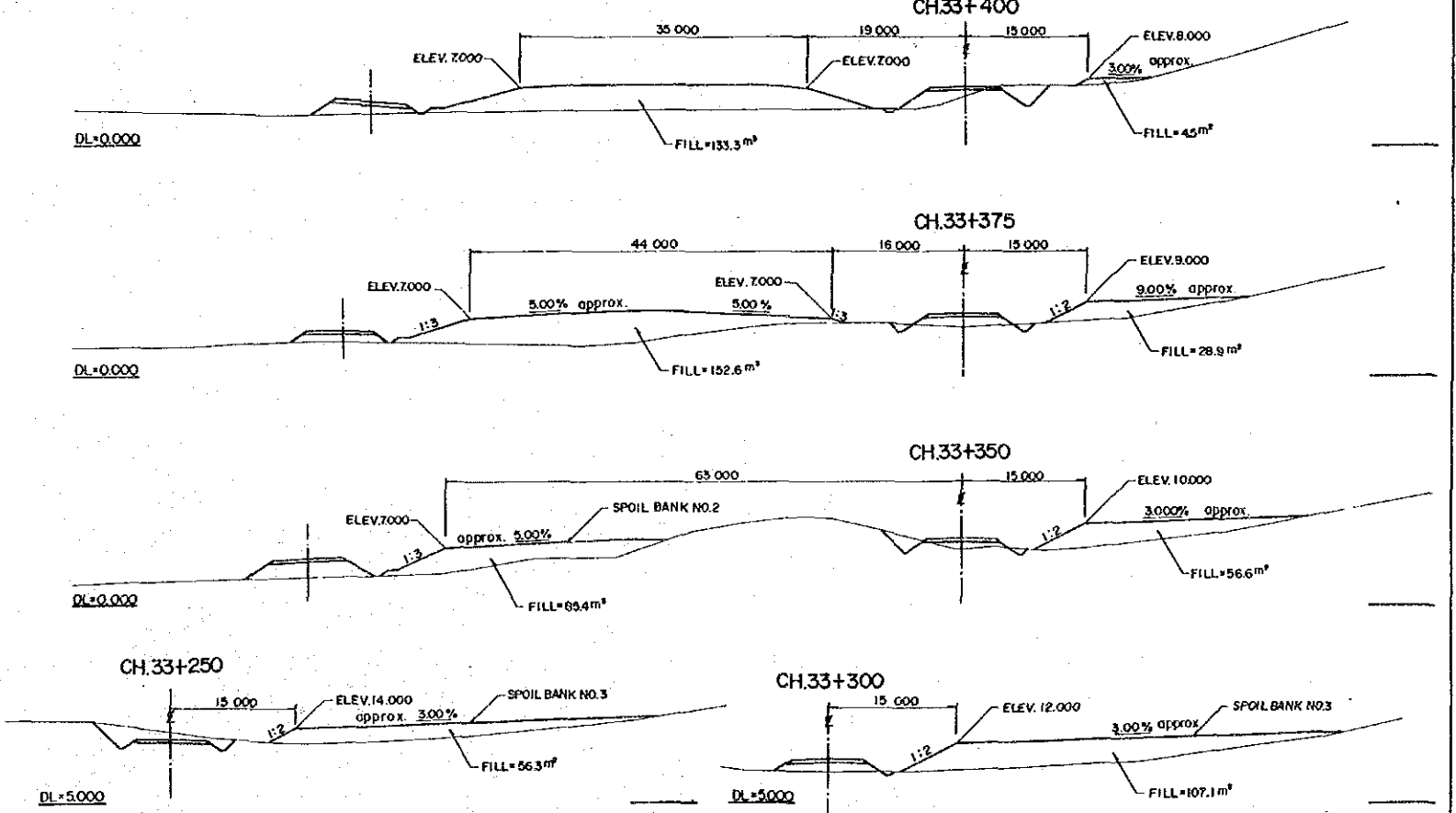


NOTES
 LOT-I Surplus material from roadway excavation shall be disposed to the Spoil Bank NO.3 located in LOT-1 section.
 LOT-II Material of the Spoil Bank NO.3 shall be used for the embankment between CH.33+550 TO CH.33+810 of LOT-II section.



CROSS SECTIONS OF SPOIL BANK NO. 1

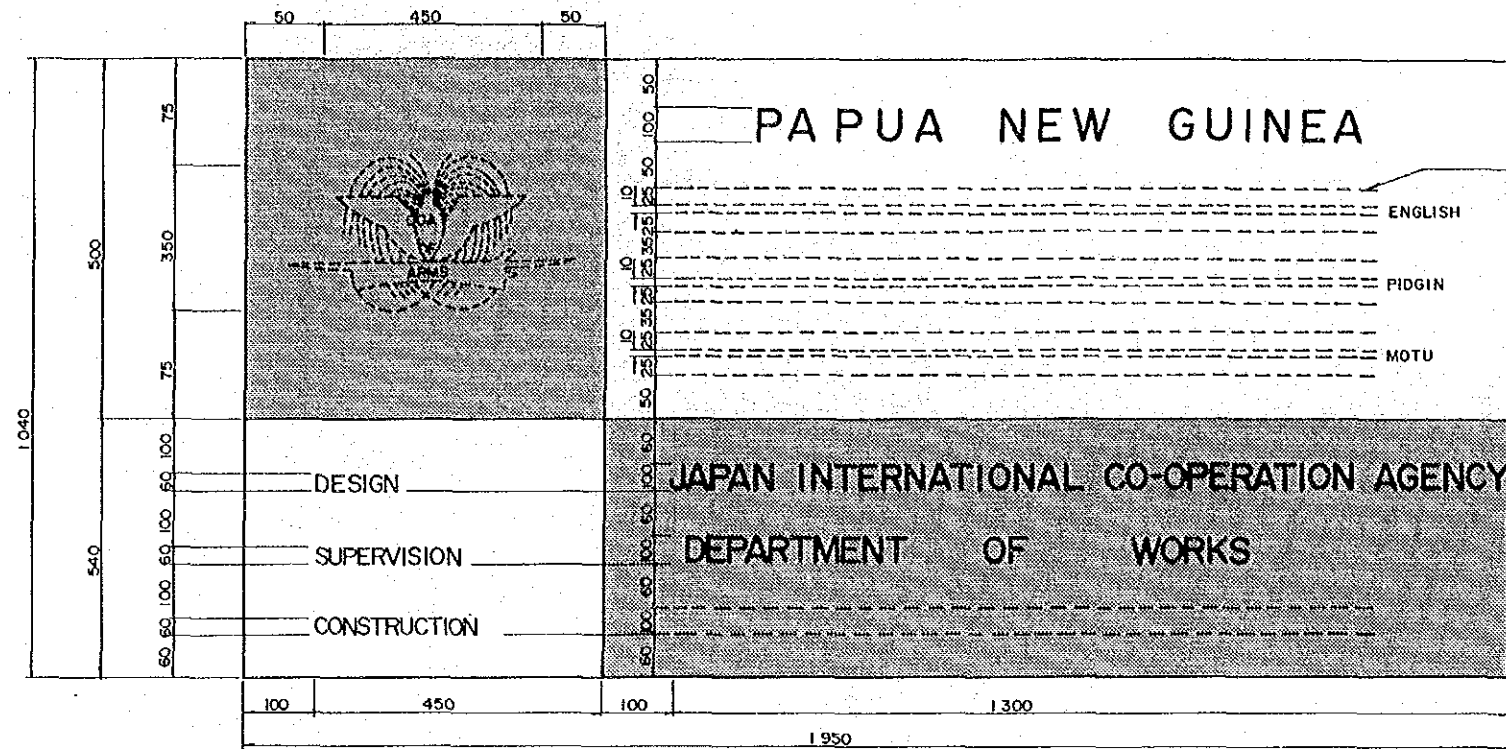
Scale 1:400



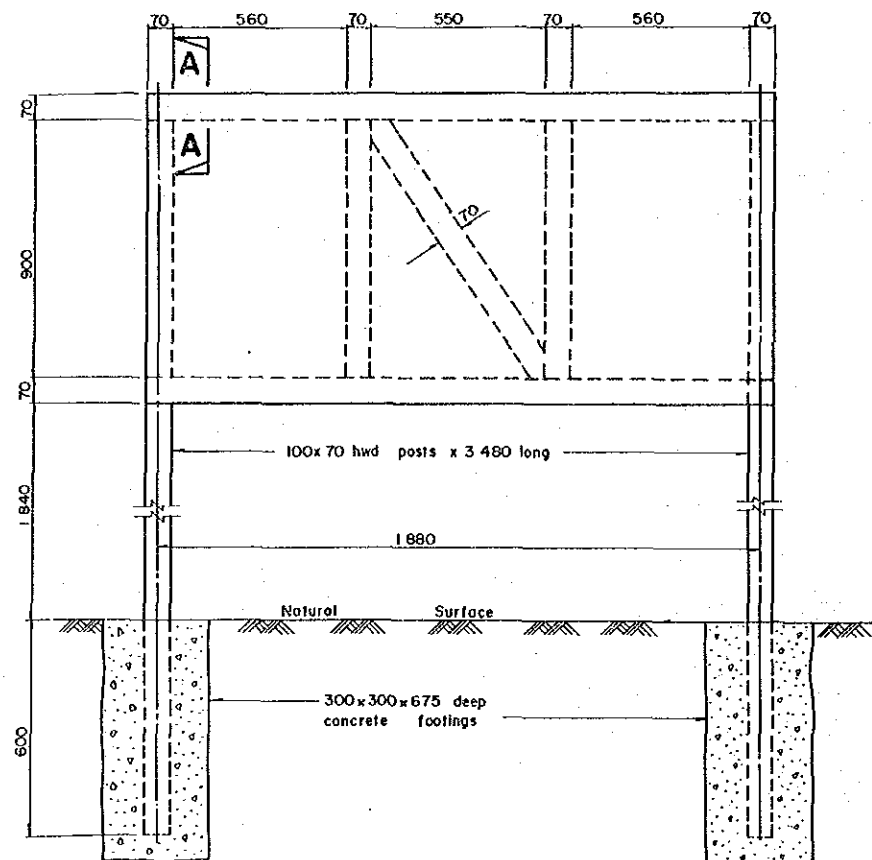
CROSS SECTIONS OF SPOIL BANK NO. 2 & NO. 3

Scale 1:400

REV. AMENDMENTS		BY	APP'D	DATE	SURVEY	DESIGN	DRAWN	RECOMMENDED	SCALES	CENTRAL / GULF PROVINCES	
					JICA	JAPAN INTERNATIONAL CO-OPERATION AGENCY	K. E.	<i>[Signature]</i>	AS SHOWN	TRANS-ISLAND HIGHWAY BERENA-MALALUA SECTION	
					VERTICAL DATUM MEAN SEA LEVEL.		PROJECT ENGINEER	PRINCIPAL ENGINEER		SPOIL BANK NO. 1, 2 & 3 FOR LOT-II / STOCK PILE NO. 1 FOR LOT II	
					HORIZONTAL DATUM		APPROVED	27.10.29		PLAN & CROSS SECTIONS	
					SURVEY BOOK NOS.		EXECUTIVE ENGINEER	SECRETARY		PAPUA NEW GUINEA	DRAWING No.
					25 Sep. 1989					DEPARTMENT OF WORKS	A1 / 87788.
									SHEET 38 OF 303	PROJECT No.	
										S.C. 120-33-814/B	



LAYOUT OF NOTICE BOARD
N.T.S



DETAILS OF FRAME AND POSTS
N.T.S

0.5 (26 gauge) flat galvanised steel sheet painted white and yellow on front face (See Notes)

70x50 hwd framing and brace

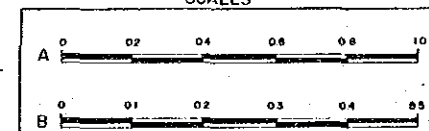
Post

SECTION A-A
N.T.S

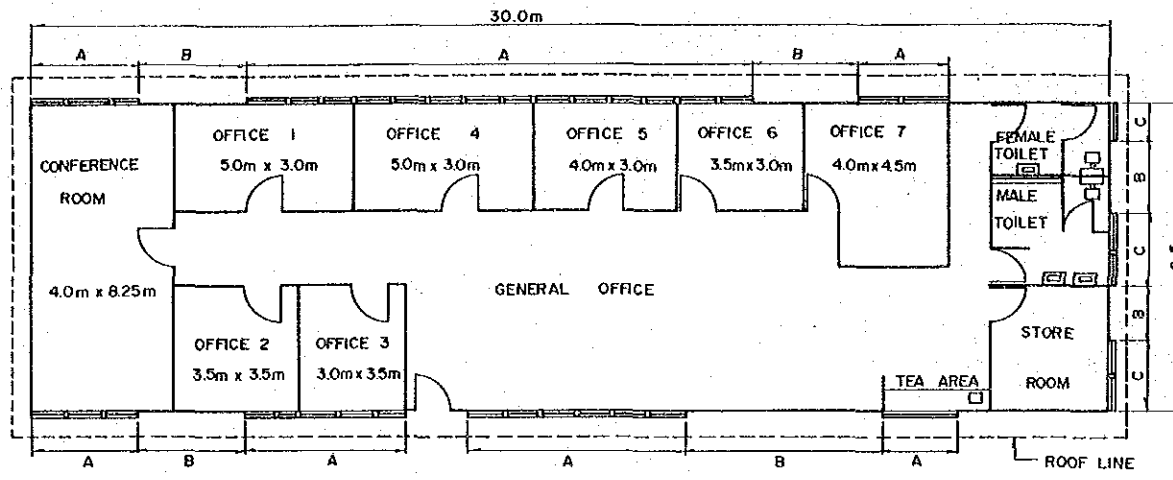
NOTES

1. All dimensions in MILLIMETRES.
2. Shaded areas to ASI433 10D43(Yellow)
3. Other areas, including frame and posts, shall be white.
4. Lettering shall be black.
5. Transfer of Coat of Arms to be supplied by the Department of Works.

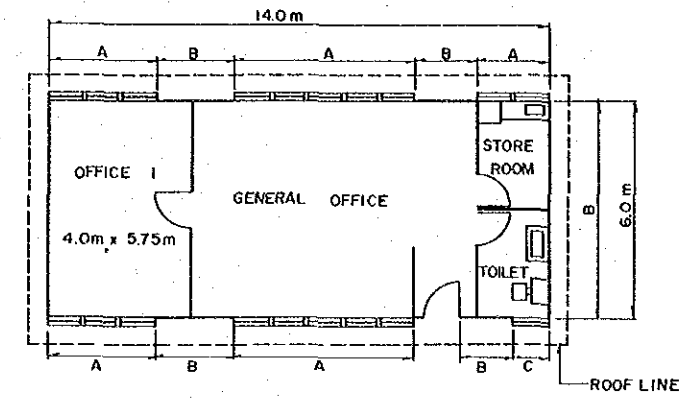
SCALES



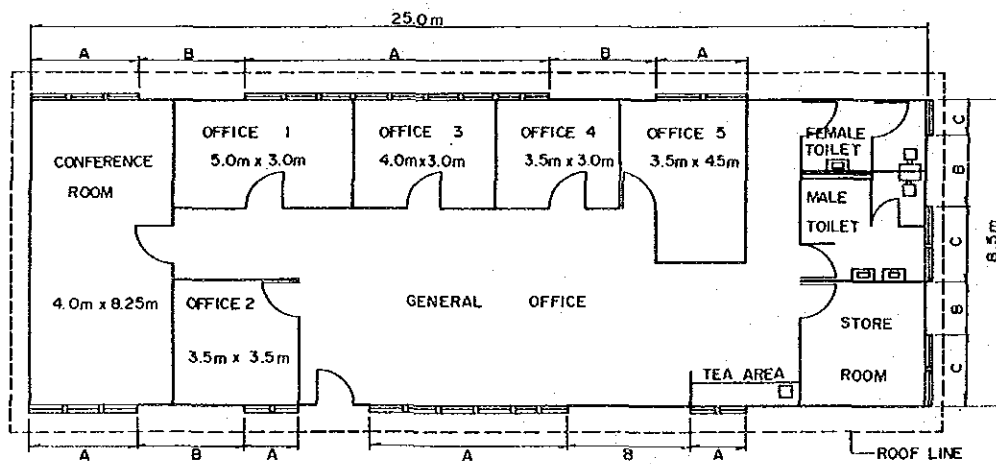
SURVEY JICA		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY		DRAWN K. E.		RECOMMENDED		SCALES NOT TO SCALE		CENTRAL / GULF PROVINCES	
VERTICAL DATUM Date MEAN SEA LEVEL		JAPAN INTERNATIONAL CO-OPERATION AGENCY		CHECKED C. Z. P.		PROJECT ENGINEER B. K. ...		APPROVED 24.10.99		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
HORIZONTAL DATUM		Principal J. ...		DESIGNED A. ...		EXECUTIVE ENGINEER T. ...		SECRETARY F. ...		PROJECT NOTICE BOARD	
SURVEY BOOK No.		25 Sep. 1999		CHECKED T. ...		SHEET 39 OF 303		PROJECT No. S.C.120-33-814/B		PAPUA NEW GUINEA DEPARTMENT OF WORKS	
REV.	AMENDMENTS	BY	APP'D	DATE	Principal		SECRETARY		DRAWING No. A1/ 87791		REV.



TYPE 1



TYPE 3

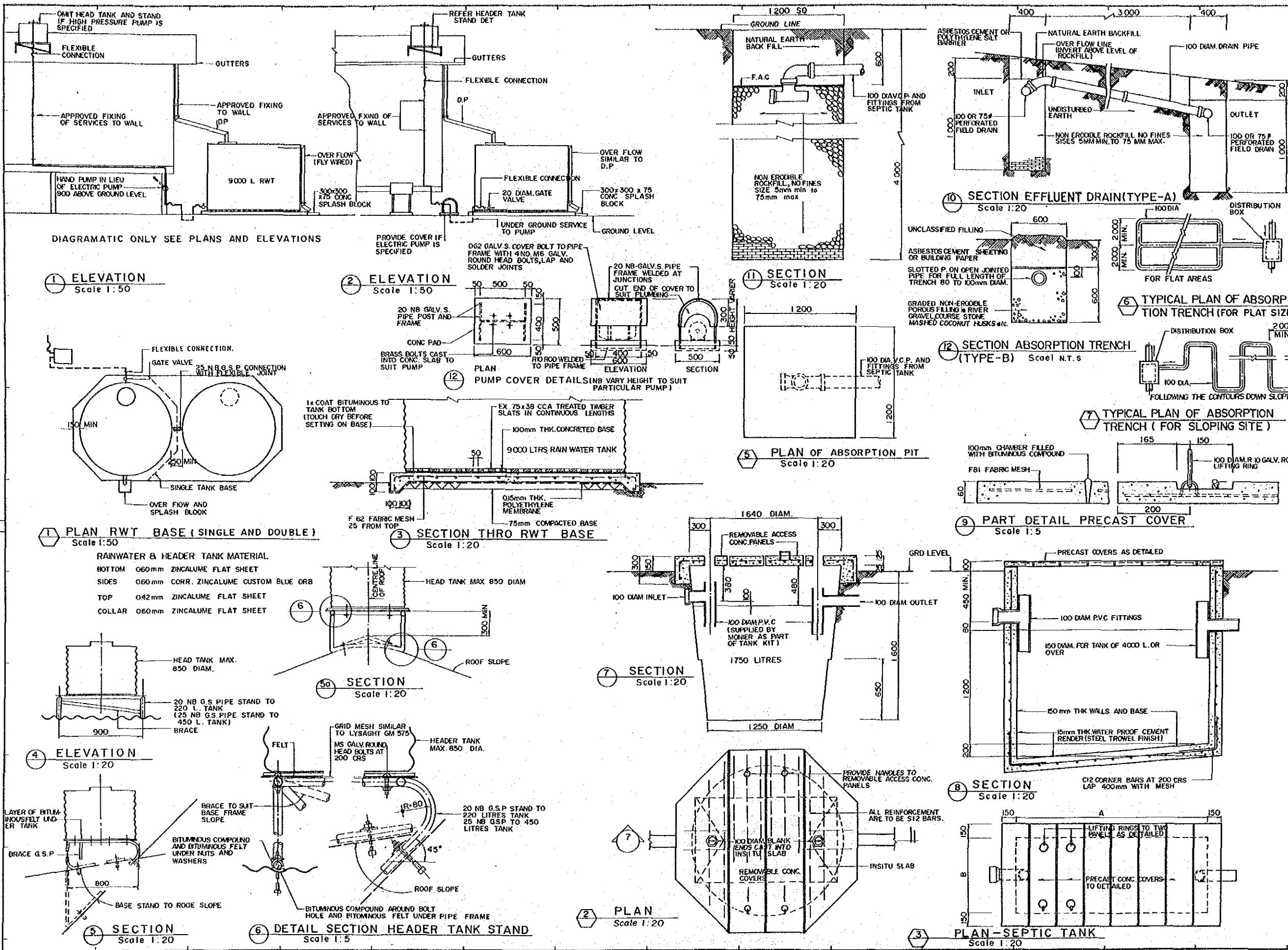


TYPE 2

LEGENO

- A - Clear glass adjustable louvre windows
- B - Bracing panel
- C - Highset frosted glass fixed louvre windows

				SURVEY JICA Date VERTICAL DATUM MEAN SEA LEVEL HORIZONTAL DATUM		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY <i>J. Kawanishi</i> Principal 25 Sep. 1989 Date		DRAWN K.E. <i>K. Kawanishi</i> PROJECT ENGINEER C. S. A. <i>A. M. M. M.</i> CHECKED A. M. M. M. CHECKED T. Kawanishi		RECOMMENDED <i>R. M. M.</i> PRINCIPAL ENGINEER 24.10.89 APPROVED <i>J. S. S.</i> SECRETARY		SCALES 1 : 100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION			
AMENDMENTS REV. BY APP'D DATE				SURVEY BOOK NO.S		EXECUTIVE ENGINEER		SECRETARY		SHEET 40 OF 303 PROJECT No. S.C. 120-33-814/B		ENGINEERS OFFICE ACCOMMODATION PAPIA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87792					



Letter	Date	Details	By
A	04/03	ABSORPTION PIT ADDED	G.K
B	04/04	PUMP COVER ADDED	paterson
C	04/03	NOTES CHANGED	D.Smith
D	04/03	LENGTH DIMENSION DELETED TO EFFLUENT DRAIN	OKaro
E	04/03	ROCKFILL SIZES NOTES ADDED TO EFFLUENT DRAIN	M.Hamer
F	04/03	ABSORPTION TRENCH ALTERED TO TYPE A & B SLATS TO BASE OF TANK	OKARGO
G	04/03	DET 6 TO HEADER TANK REVISED	G.K
H	04/03	F18 CORRECTED TO F81 (DET.9)	

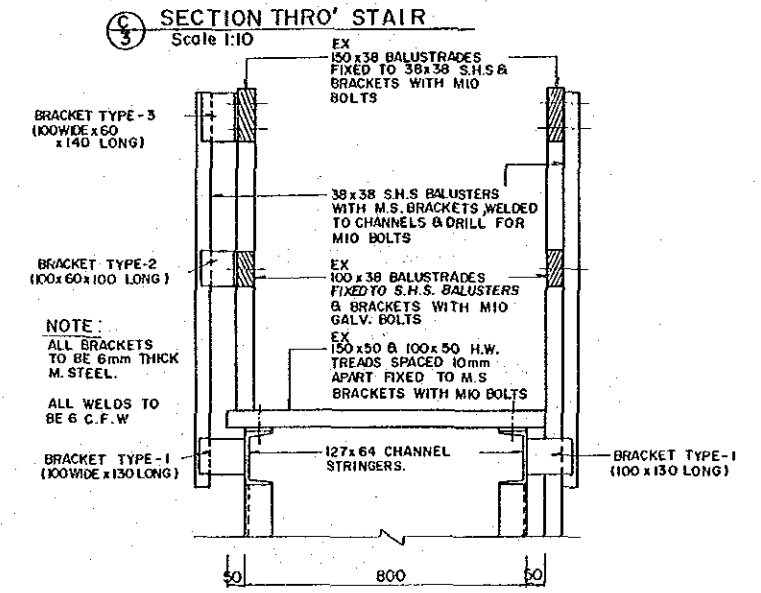
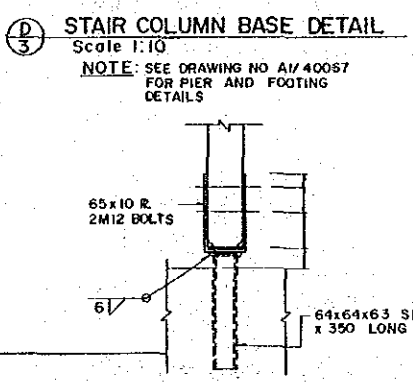
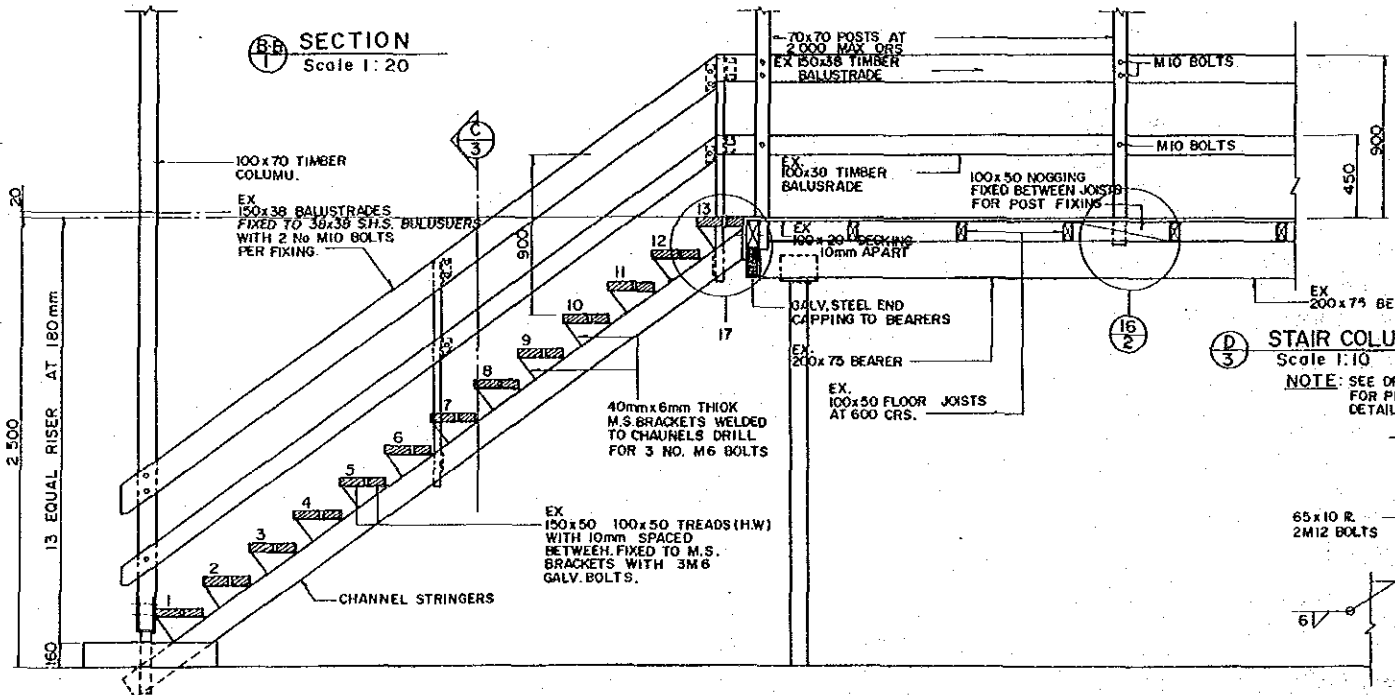
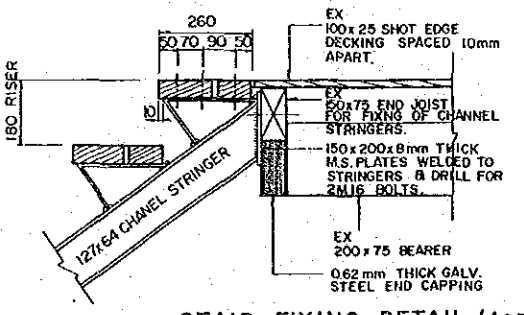
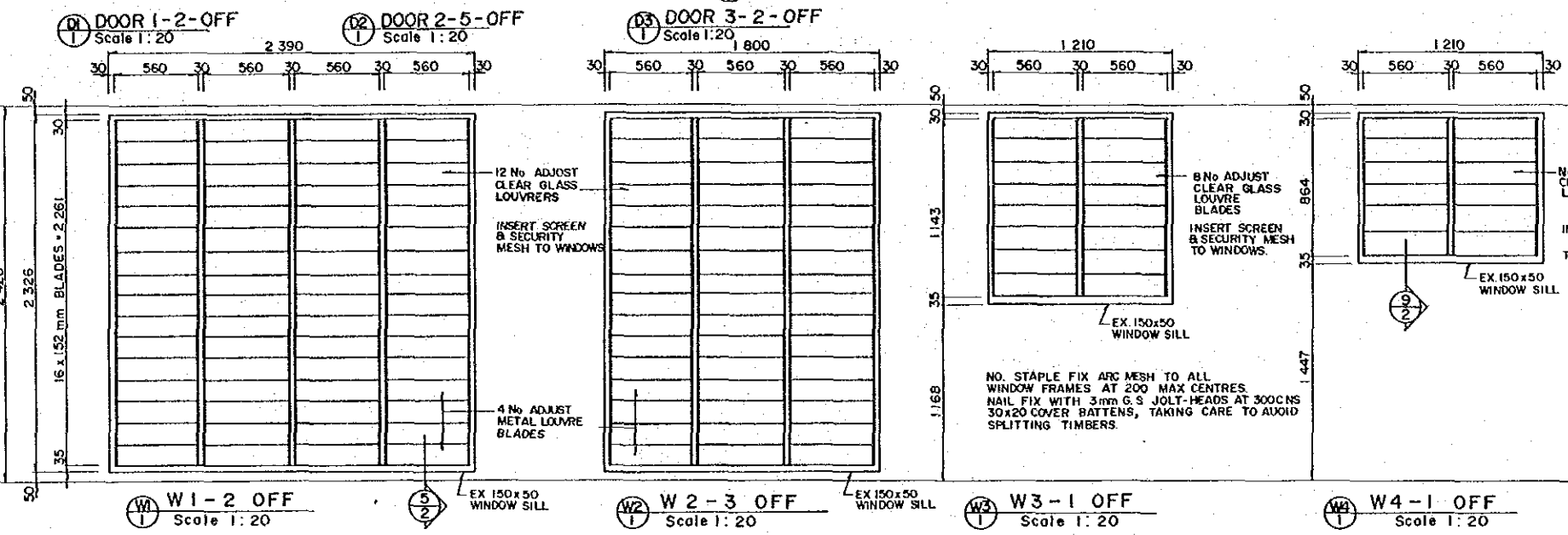
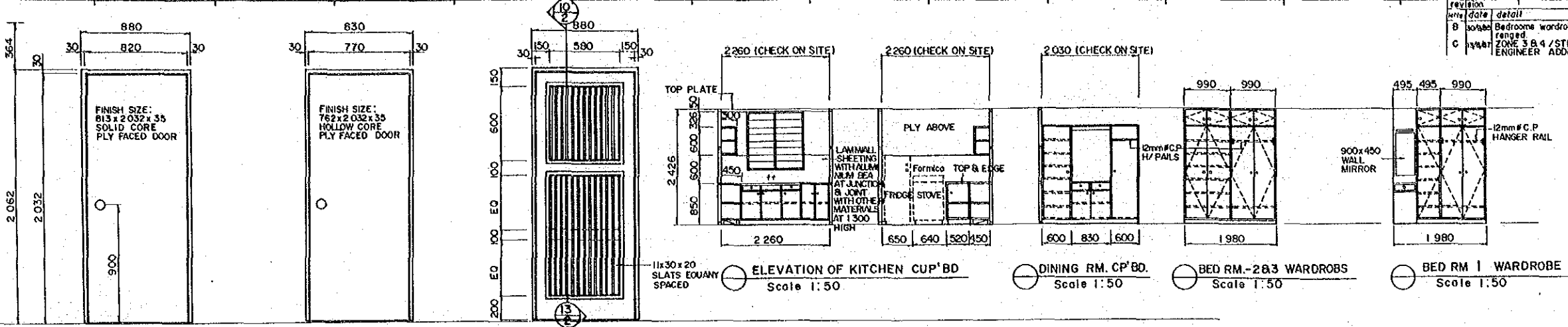
TABLE TO SEPTIC TANK
W.C. and/or URINAL WASTES

PERSON	LITRES	DIMENSIONS		MESH	
		A	B	WALLS	BASE
8 TO 12	2500	2400	800	F102	F102
13 TO 18	2600	2500	800	F102	F102
19 TO 23	3100	2700	900	F102	F102
24 TO 28	3400	2900	900	F102	F102
29 TO 33	3500	2700	1000	F102	F102
34 TO 38	3700	2900	1000	F102	F102
7	2200	2300	800	F102	F102
8 TO 12	4000	2800	1100	F102	F102
13 TO 18	4800	2900	1200	F102	F102
19 TO 23	5500	3300	1300	F 81	F 81
24 TO 28	6300	3500	1400	F 81	F 81
29 TO 28	7000	3600	1500	F 81	F 81
34 TO 38	7600	3700	1600	F 81	F 81

FOR 39 PERSON OR OVER REFER DRAW NO. A/40447

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	DESIGN	DRAWN	RECOMMENDED	SCALES	CENTRAL / GULF PROVINCES		
					JICA	JAPAN INTERNATIONAL CO-OPERATION AGENCY	K.E.		AS SHOWN	TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION		
					VERTICAL DATUM MEAN SEA LEVEL		PROJECT ENGINEER	PRINCIPAL ENGINEER		PLANS, ELEVATIONS SECTIONS AND DETAILS		
					HORIZONTAL DATUM		APPROVED	SECRETARY		PAPUA NEW GUINEA	DRAWING No.	REV
					SURVEY BOOK NO. 5	25 Sep. 1989	EXECUTIVE ENGINEER			DEPARTMENT OF WORKS	A1/ 87793	

revision	date	detail	approved
B	10/88	Bedrooms wardrobes details	D.R.
C	1/94	ZONE 3 B.4 / STRUCTURAL ENGINEER ADDED	



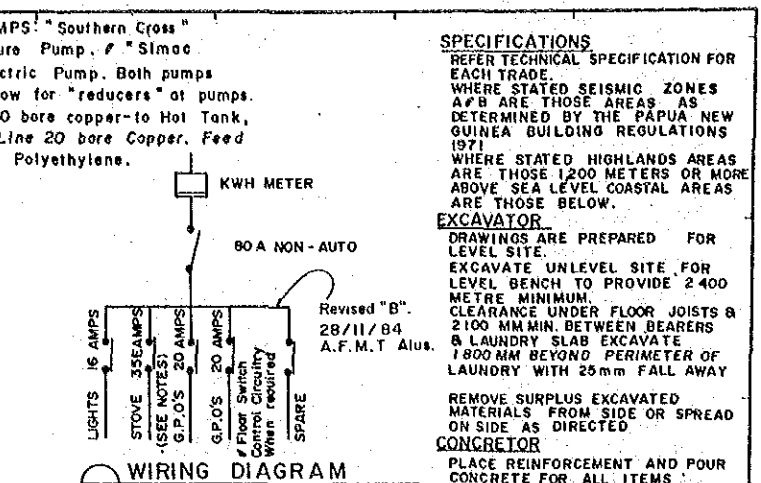
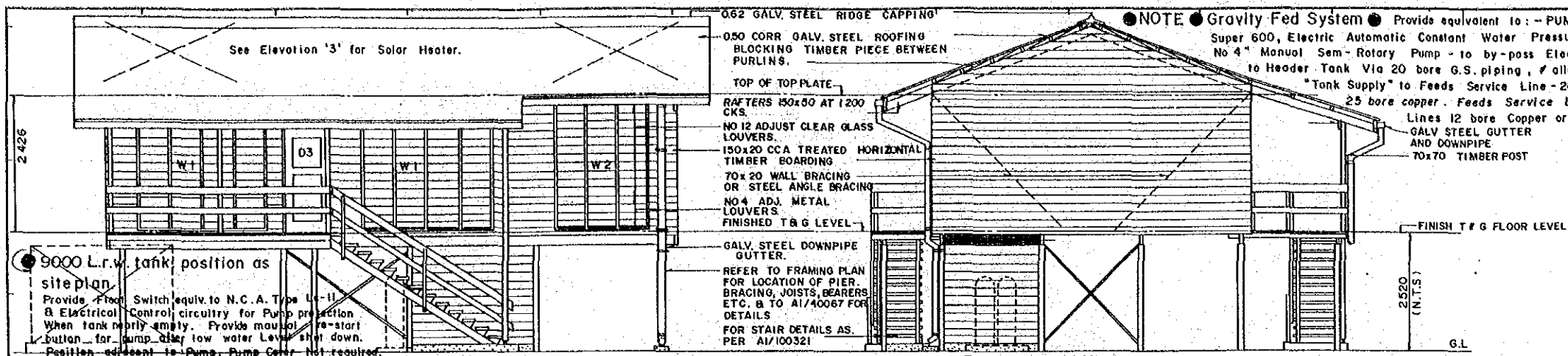
SPECIFICATION CONTINUED

DRAINLAYER:
CONNECT TO RETICULATED SEWERAGE WHEN AVAILABLE AS PER AI/100229 AI/100

ELECTRICIAN:
COMPLETE WIRING AND INSTALL FITTINGS IN ACCORDANCE WITH SCHEDULE WHERE POWER AVAILABLE OR NOT.
SOLAR HEATER REFER TO PLUMBER

PAINTER:
PAINT THE FOLLOWING:
ALL EXPOSED FRAMING (OTHER THAN FLOOR FRAMING) - WALLS & CEILING
LIVING ALL JOINERY INCLUDING BOTH SIDES CUPBOARD DOORS.
NON GALV STEEL OTHER THAN ROOFING - DULUX TIMBER COLOUR (2 COATS) TO STAIR TREADS AND REAR LANDING VERANDAH DECK (POLY URETHANE) (2 COATS) TO MAIN FLOOR.

SURVEY JICA		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY		DRAWN K.E		RECOMMENDED [Signature]		SCALES AS SHOWN		CENTRAL / GULF PROVINCES	
VERTICAL DATUM MEAN SEA LEVEL		DATE 25 Sep. 1989		CHECKED [Signature]		PROJECT ENGINEER [Signature]		APPROVED [Signature]		TRANS-ISLAND HIGHWAY - BEREINA-MALALAU SECTION	
SURVEY BOOK NOS		DATE		CHECKED [Signature]		EXECUTIVE ENGINEER [Signature]		SECRETARY [Signature]		DOOR & WINDOW SCHEDULE STAIR DETAILS, SECTION AND JOINERY ELEVATIONS	
REV.	AMENDMENTS	BY	APP'D	DATE				SHEET 42 OF 303	PROJECT No. S.C.120-33-814/B	PAPUA NEW GUINEA DEPARTMENT OF WORKS	DRAWING No. A1/ 87794



SPECIFICATIONS
REFER TECHNICAL SPECIFICATION FOR EACH TRADE.
WHERE STATED SEISMIC ZONES A & B ARE THOSE AREAS AS DETERMINED BY THE PAPUA NEW GUINEA BUILDING REGULATIONS 1971.
WHERE STATED HIGHLANDS AREAS ARE THOSE 1200 METERS OR MORE ABOVE SEA LEVEL COASTAL AREAS ARE THOSE BELOW.

EXCAVATOR
DRAWINGS ARE PREPARED FOR LEVEL SITE.
EXCAVATE UNLEVEL SITE FOR LEVEL BENCH TO PROVIDE 2400 METRE MINIMUM CLEARANCE UNDER FLOOR JOISTS & 2100 MM MIN. BETWEEN BEARERS & LAUNDRY SLAB EXCAVATE 1800MM BEYOND PERIMETER OF LAUNDRY WITH 25mm FALL AWAY

REMOVE SURPLUS EXCAVATED MATERIALS FROM SIDE OR SPREAD ON SIDE AS DIRECTED

CONCRETOR
PLACE REINFORCEMENT AND POUR CONCRETE FOR ALL ITEMS INDICATED AND INCLUDED IN SCOPE OF WORK. MONOLITHIC STEEL TROWEL FINISH TO FLOOR SLAB FOOTING TO CLOTHES HOIST SHALL BE 200x200x600 DEEP CONG. CONCRETE SHALL BE GRADE 20 REINFORCEMENT DESIGNATED F SHALL BE FABRIC CONFORMING TO AS 1304 AND R SHALL BE PLAIN ROUND BARS CONFORMING AS 1302

METALWORKER
REFER DRAWING A1/40067 FOR SCHEDULE OF PIER AND BRACING PROVIDE WHERE DIRECTED GALV. STEEL ROTARY CLOTHES HOIST SIMILAR TO HILLS
FIT GALV. STEEL ARC W62304 SECURITY MESH TO ALL WINDOWS

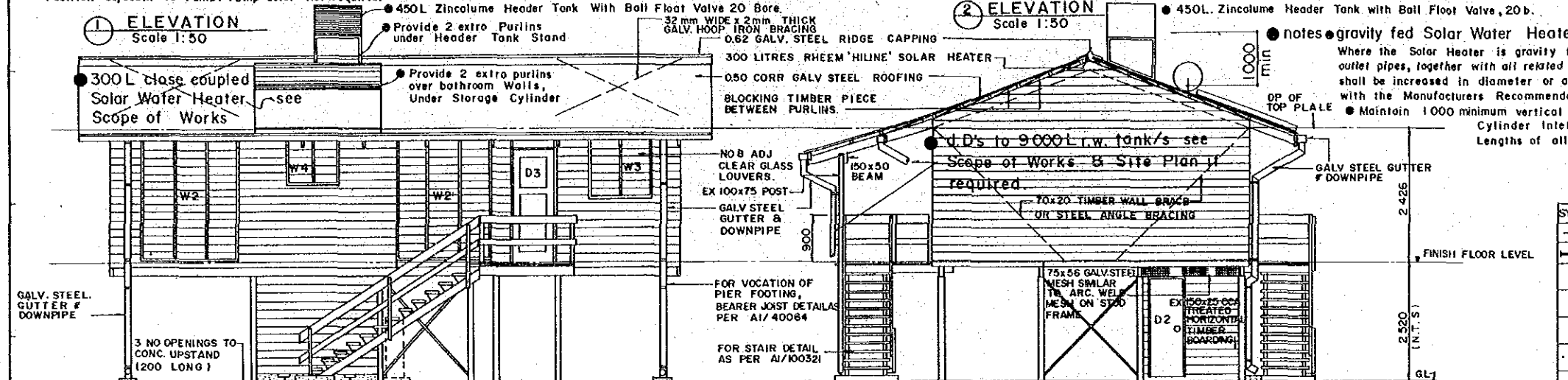
CARPENTER & JOINER
FRAME ALL COMPONENTS TO SIZES SHOWN AS INDICATED. TIMBER SHALL BE STRENGTH GROUP F11.

DOOR SCHEDULE
D-1 - 2032 x 813 x 35 20FF
D-2 - 2032 x 762 x 35 50FF
D-3 - FLY WIRE DOOR 2032 x 813 x 30 - 20 OFF SIZES ARE OVERALL FRAME AND LINING

HARDWARE
HANG ALL DOORS ON 100mm BRASS BUTTS. FIT 100mm C.P. CABIN HOOKS TO DOORS D1 & D2.
ALL LOCKS SHALL BE LOCKWOOD OR SIMILAR APPROVED IN SATIN CHROME FINISH.
D1 - 205 DEADLOCKING HIGH LA TCH
D2 - 535 EXTERIOR DOOR ESCAPE DEAD LATCH.
D2 TO TOILET & SHOWER 505 PRIVACY LATCH
FIT HILLS OR SIMILAR ALUMINIUM & P.V.C. WEATHER SEALS TO DP.

FLYWIRE DOORS
"LOCKWOOD" 307 SCREEN DOOR LATCH & LOCK WOOD 402 PNEUMATIC DOOR CLOSERS TO D3.

Revision B : 28/11/84 A.F.M.T alterations to Solar Water Heater / Header Tank.
Storage Tank & H.W. reticulation.
● reticulate hot water to: - Kitchen Sink Shower Wash Hand Basin - Laundry Tub, for Mains Pressure and Gravity Fed Systems
● solar heater type.
The solar heater used shall be the same as that currently accepted by D.W. Plant and Transport Branches Contract for supply of Solar Water Heaters. Contractor to comply fully with all installation recommendations of the Manufacturer.
● solar heater position.
The Solar Heater shall face Northerly. If the siting of the House faces the Bathroom to 1h Solh-then see Scope of Works for revisions for "Against Pitch Stand" or strengthening of rafters and purlins on opposite side.
● Provide "With Pitch" or "Against Pitch" or "Cross Pitch" Stands - all as recommended by the Manufacturer.

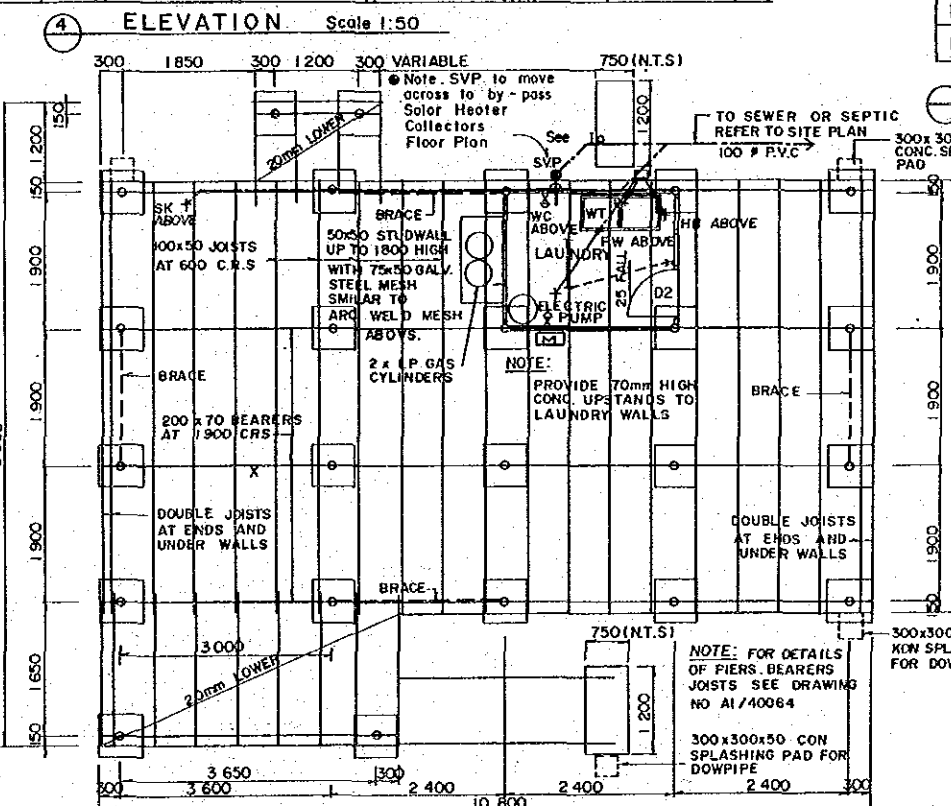
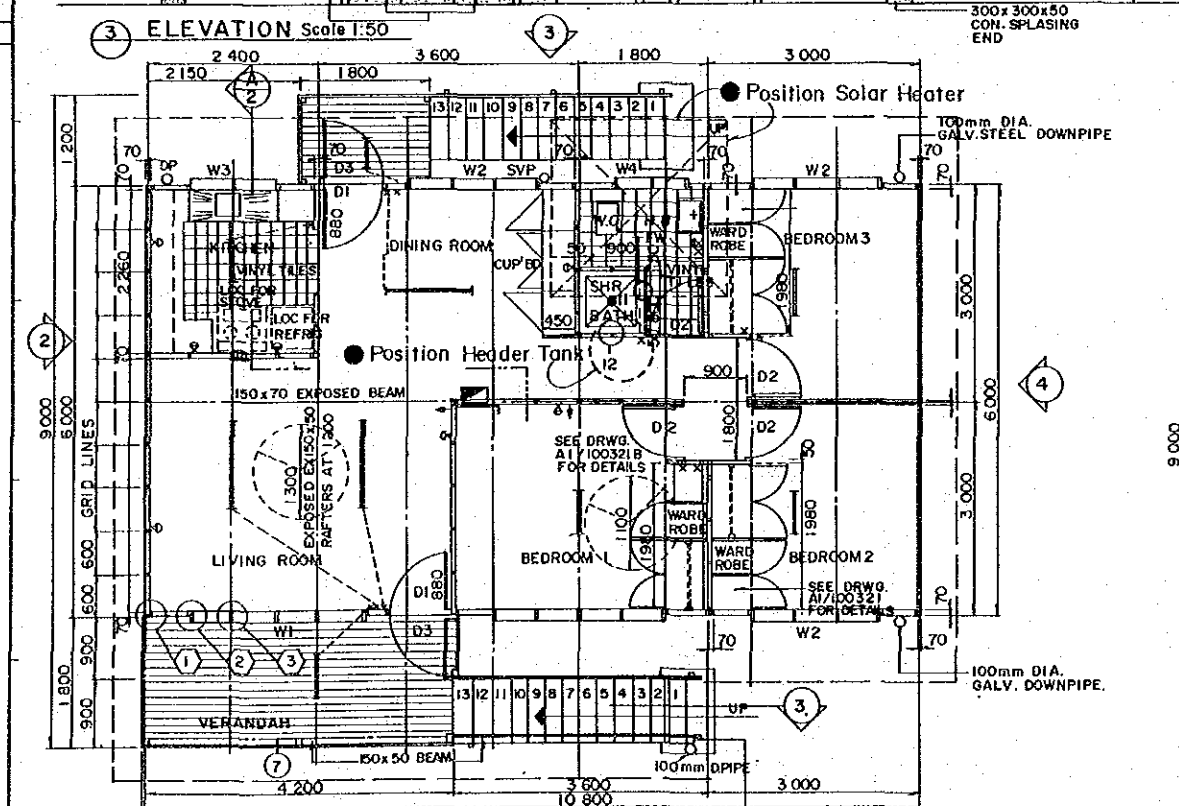


SYMBOL FITTING DESCRIPTIONS

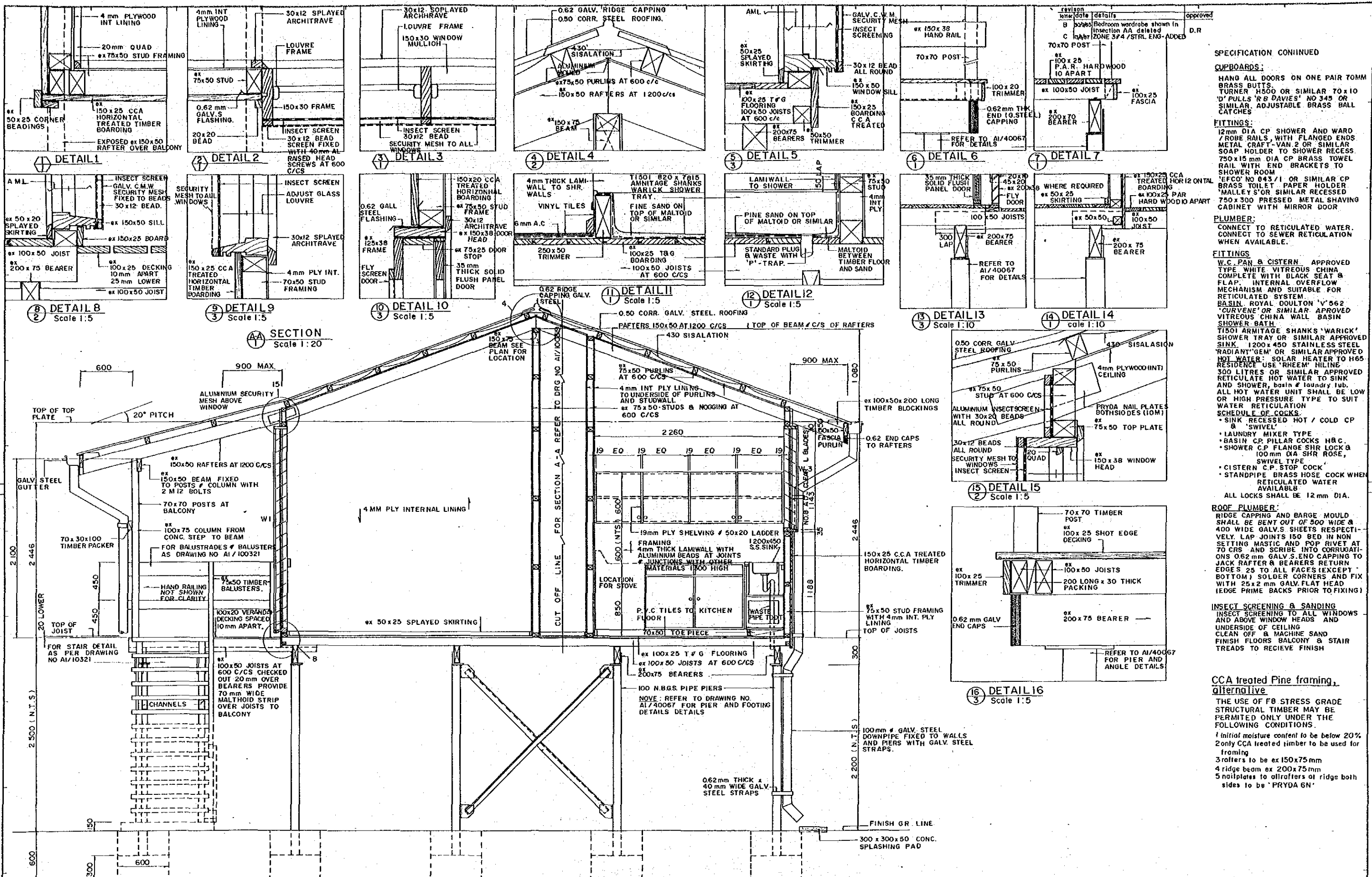
→	1500mm CEILING FAN WITH REGULATOR FITTING WEATHERITE OR SIMILAR
→	1x40 BATTEN FLUORESCENT FITTING H.P.P. APPROVED TYPE
→	1x20 BATTEN FLUORESCENT FITTING H.P.P. APPROVED TYPE
→	MAIN DISTRIBUTION BOARD WESTING HOUSE CIRCUIT BREAKER
X	SWITCH 10 AMP ONE WAY FLUSH APPROVED TYPE
→	G.P.O. 10 AMP FLUSH APPROVED TYPE
M	METER BOX ELECT. COMMISSION SPECIFICATION
→	35 AMP ISOLATING SWITCH FOR STOVE MOUNTED 400

ELECTRICAL LEGEND

SK - STAINLESS STEEL SINK
H.B. - HAND BASIN
SHR. - SHOWER TRAY
W.C. - WATER CLOSET
W.T. - WASH TROUGH
D.T. - DISCONNECTION TRAP
I.O. - INSPECTION OPENING
S.V.P. - SOIL VENT PIPE



REV	AMENDMENTS	BY	APP'D	DATE	SURVEY	DESIGN	DRAWN	RECOMMENDED	SCALES	CENTRAL / GULF PROVINCES
					JICA	JAPAN INTERNATIONAL CO-OPERATION AGENCY	K.E.	AS SHOWN	AS SHOWN	TRANS-ISLAND HIGHWAY BEREINA-MALAIUA SECTION
					VERTICAL DATUM MEAN SEA LEVEL.		PROJECT ENGINEER	APPROVED		PLANS, ELEVATIONS ELECTRICAL LEGEND AND WIRING DIAGRAM
					HORIZONTAL DATUM		EXECUTIVE ENGINEER	28/11/84		PAPUA NEW GUINEA DEPARTMENT OF WORKS
					SURVEY BOOK NO. 8	J. Mahito 25 Sep. 1989		SECRETARY		DRAWING No. A1/ 87795
									SHEET 43 OF 303	PROJECT No. S.C.120-33-814/ B



SPECIFICATION CONTINUED

CUPBOARDS:
HANG ALL DOORS ON ONE PAIR TOMM BRASS BUTTS. TURNER H500 OR SIMILAR TO X10 'D' PULLS 'R B DAVIES' NO 345 OR SIMILAR. ADJUSTABLE BRASS BALL CATCHES.

FITTINGS:
12mm DIA CP SHOWER AND WARD / ROBE RAILS, WITH FLANGED ENDS METAL CRAFT-VAN 2 OR SIMILAR SOAP HOLDER TO SHOWER RECESS. 750x15mm DIA CP BRASS TOWEL RAIL WITH END BRACKETS TO SHOWER ROOM. 'EFCO' NO 043/1 OR SIMILAR CP BRASS TOILET PAPER HOLDER. 'MALLEYS' OR SIMILAR RECESSING 750x300 PRESSED METAL SHAVING CABINET WITH MIRROR DOOR.

PLUMBER:
CONNECT TO RETICULATED WATER. CONNECT TO SEWER RETICULATION WHEN AVAILABLE.

FITTINGS:
W.C. PAN & CISTERN. APPROVED TYPE WHITE VITREOUS CHINA COMPLETE WITH BLACK SEAT & FLAP. INTERNAL OVERFLOW MECHANISM AND SUITABLE FOR RETICULATED SYSTEM. BASIN, ROYAL DOUTON 'V' 562 'CURVENE' OR SIMILAR APPROVED VITREOUS CHINA WALL BASIN SHOWER BATH. T1501 ARMITAGE SHANKS 'WARICK' SHOWER TRAY OR SIMILAR APPROVED SINK 1200x450 STAINLESS STEEL 'RADIANTHEM' OR SIMILAR APPROVED HOT WATER. SOLAR HEATER TO H65 RESIDENCE USE 'RHEEM' HILINE 300 LITRES OR SIMILAR APPROVED RETICULATED HOT WATER TO SINK AND SHOWER, both of laundry tub. ALL HOT WATER UNIT SHALL BE LOW OR HIGH PRESSURE TYPE TO SUIT WATER RETICULATION SCHEDULE OF COCKS:
• SINK RECESSED HOT / COLD CP & SWIVEL
• LAUNDRY MIXER TYPE
• BASIN CP PILLAR COCKS H&C.
• SHOWER CP FLANGE SHR LOCK & 100mm DIA SHR ROSE, SWIVEL TYPE
• CISTERN C.P. STOP COCK
• STANDPIPE BRASS HOSE COCK WHEN RETICULATED WATER AVAILABLE.

ALL LOCKS SHALL BE 12mm DIA.

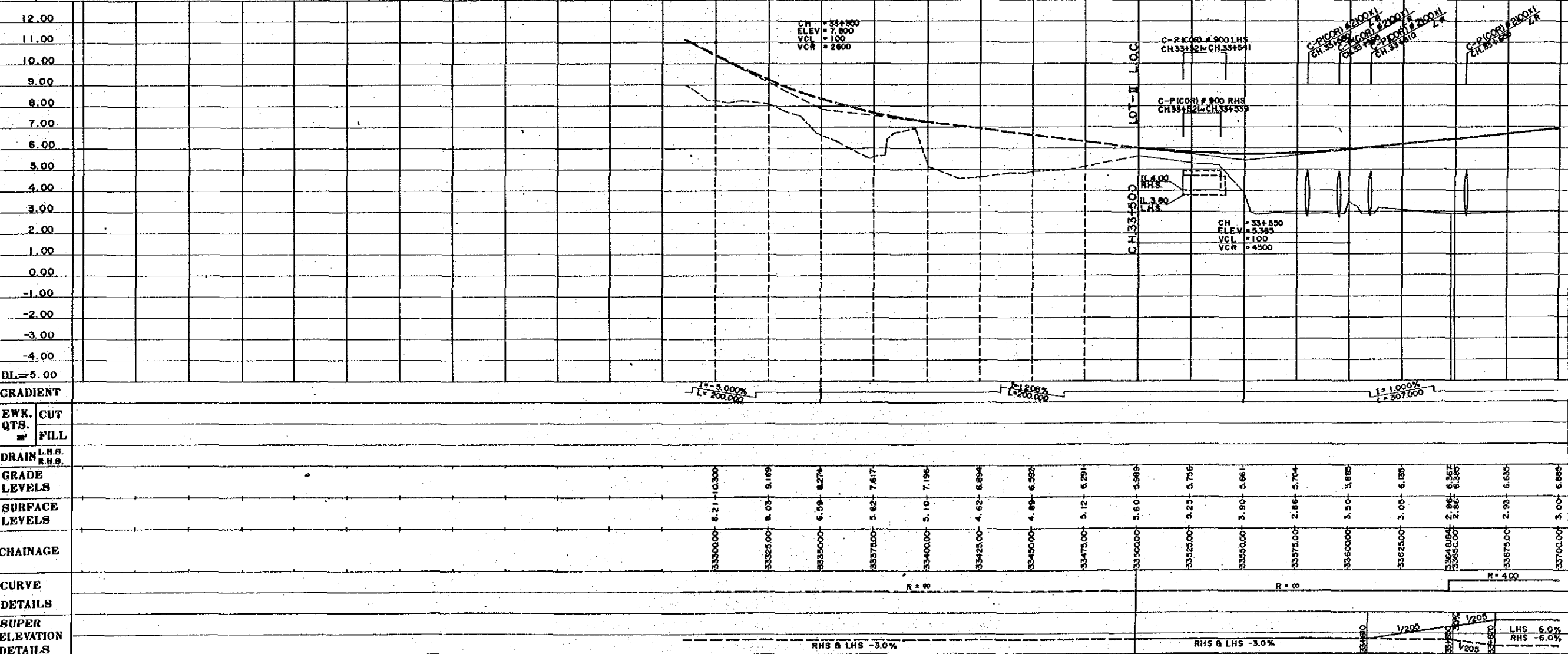
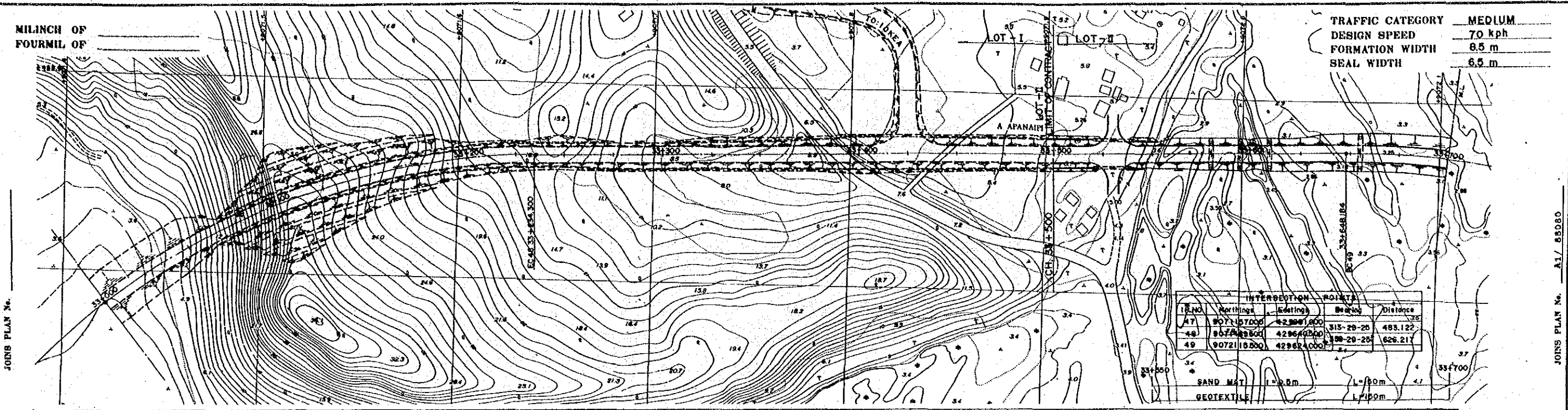
ROOF PLUMBER:
RIDGE CAPPING AND BARGE MOULD SHALL BE BENT OUT OF 500 WIDE & 400 WIDE GALV. SHEETS RESPECTIVELY. LAP JOINTS 150mm BED IN NON SETTING MASTIC AND POP RIVET AT 90 CRS AND SCRIBE INTO CORRUGATIONS. 0.62mm GALV. S. END CAPPING TO JACK RAFTER & BEARERS RETURN EDGES 25 TO ALL FACES EXCEPT BOTTOM. SOLDER CORNERS AND FIX WITH 25x2mm GALV. FLAT HEAD (EDGE PRIME BACKS PRIOR TO FIXING).

INSECT SCREENING & SANDING:
INSECT SCREENING TO ALL WINDOWS AND ABOVE WINDOW HEADS AND UNDERSIDE OF CEILING. CLEAN OFF & MACHINE SAND FINISH FLOORS BALCONY & STAIR TREADS TO RECEIVE FINISH.

REV. AMENDMENTS		BY	APP'D	DATE	SURVEY BOOK NO. 8	SURVEY JICA Date	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY	DRAWN K.E. CHECKED DESIGNED CHECKED	RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER	SCALES AS SHOWN	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY BERENIA-MALALAU SECTION SECTIONS DETAILS
					25 Sep. 1989			27.9.89	24.9.89	SHEET 44 OF 303	PAPUA NEW GUINEA DEPARTMENT OF WORKS
										PROJECT No. S.C. 120-33-814/B	DRAWING No. A1/ 87796

MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m



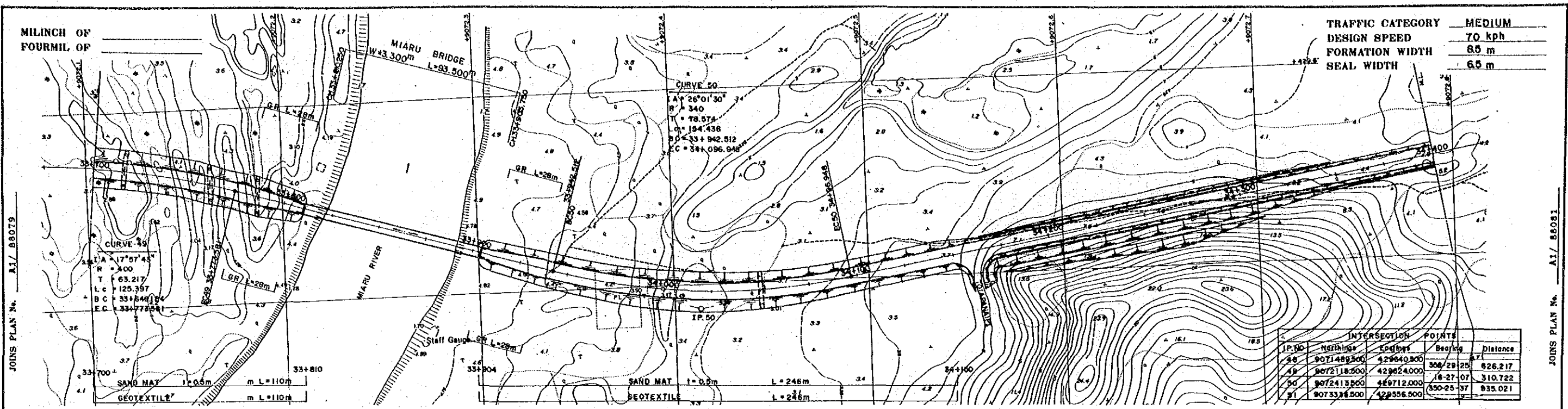
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

<p>REV. AMENDMENTS</p>		<p>BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. A4893 SURVEY BOOK NO.8</p>		<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Principal J. Yuki Date 25 Sep. 1989</p>		<p>DRAWN K.E. Checked Designed Checked</p>		<p>RECOMMENDED PROJECT ENGINEER APPROVED Principal Engineer Date 27.10.89 Executive Engineer Secretary</p>		<p>SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 33 + 500 CH.33 + 700 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88079</p>			
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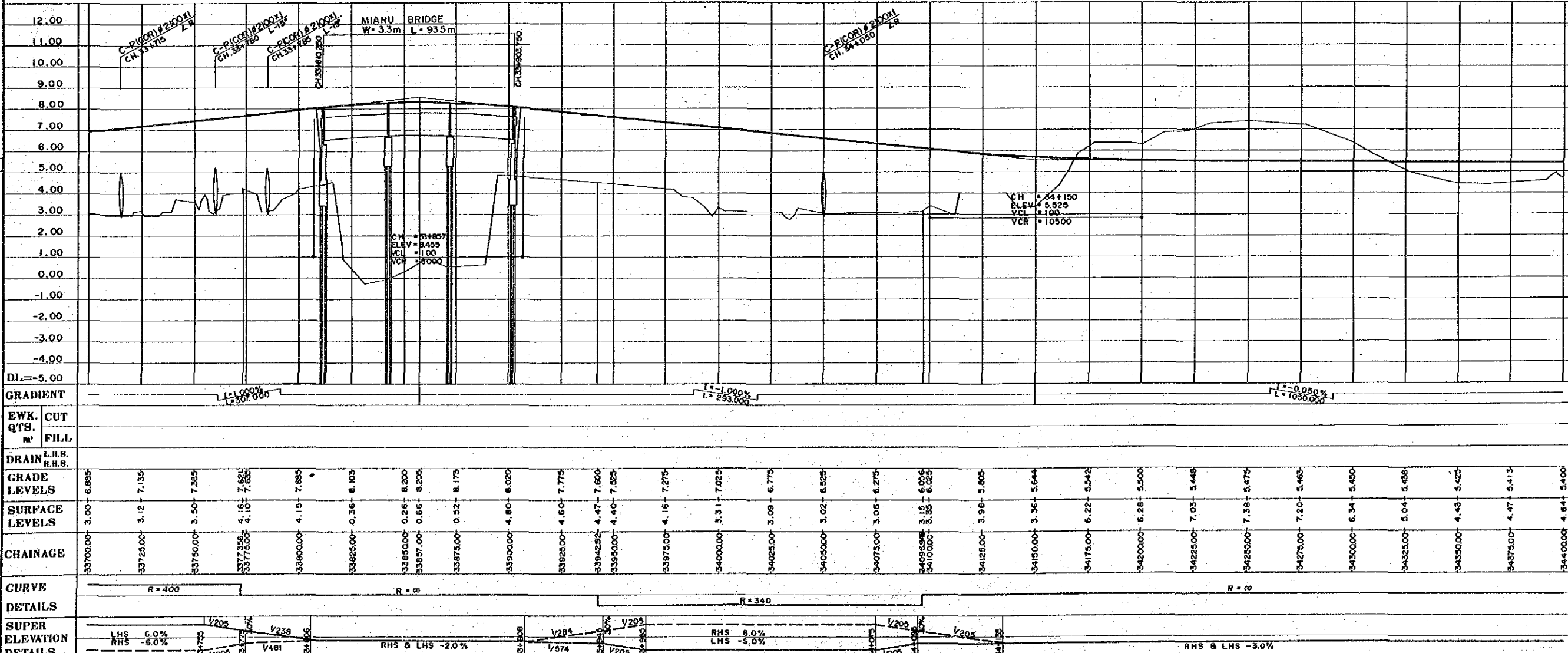
JOINS PLAN No.

JOINS PLAN No. A1/ 88080



TRAFFIC CATEGORY	MEDIUM
DESIGN SPEED	70 kph
FORMATION WIDTH	65 m
SEAL WIDTH	65 m

IP. NO.	Northing	Easting	Bearing	Distance
48	9071489.500	429640.800	308°29'25"	826.217
49	9072118.500	429624.000	16°27'07"	310.722
50	9072413.500	429712.000	350°25'37"	833.021
51	9073318.500	429556.500		



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS

DIST	OFFSET	R.L.

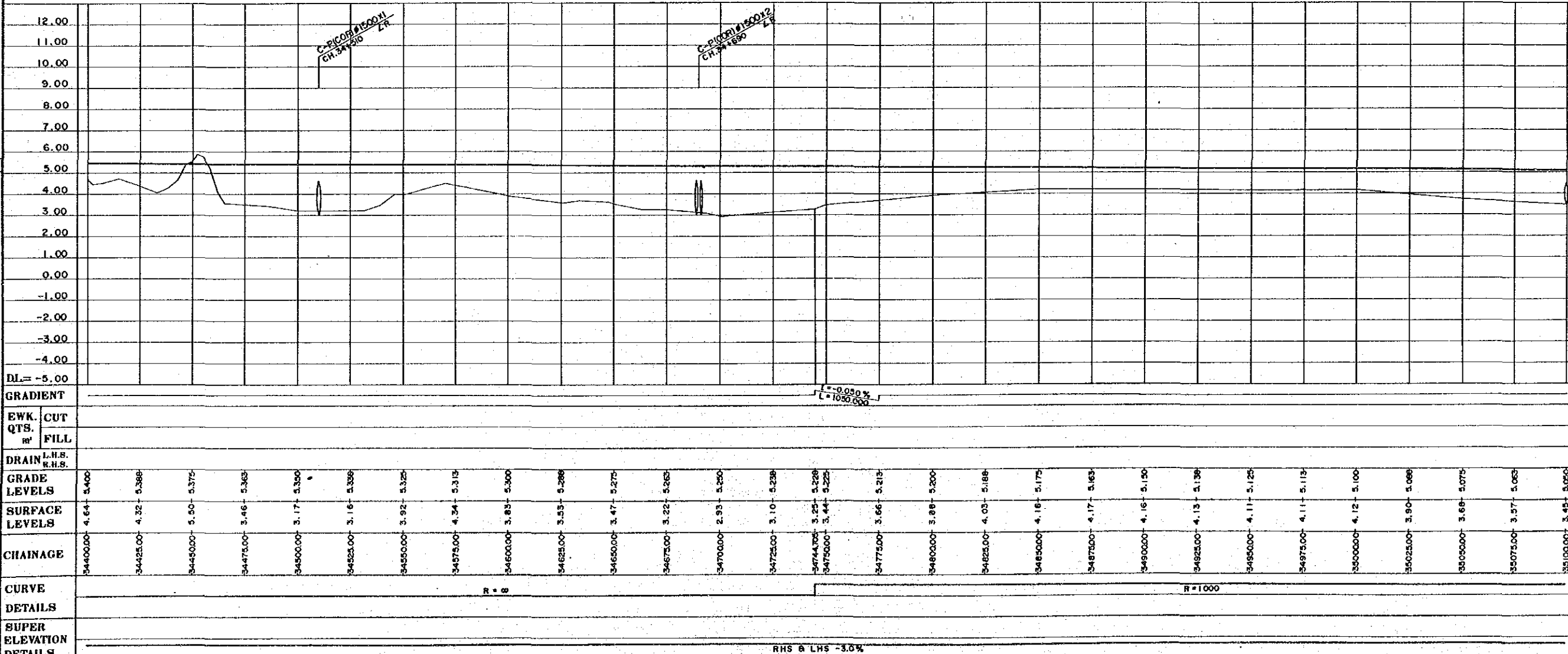
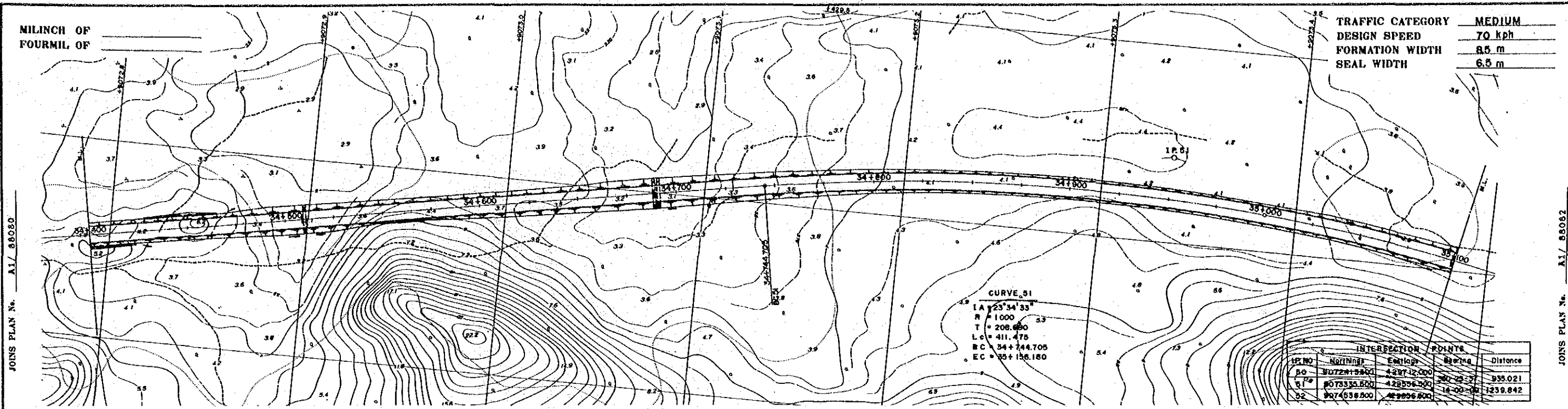
GRADIENT L = 1000 L = 293.000 L = 1000 L = 293.000 L = 1050.000		EWK. CUT QTS. m' FILL		DRAIN L.H.S. R.H.S.		GRADE LEVELS		SURFACE LEVELS		CHAINAGE		CURVE DETAILS R = 400 R = 0 R = 340 R = 0		SUPER ELEVATION DETAILS LHS 6.0% RHS -6.0% V205 V238 V481 RHS & LHS -2.0% V284 V205 V205 V205 LHS 5.0% RHS -5.0% V205 V205 RHS & LHS -3.0%											
REV.		AMENOMENTS		BY		APP'D		DATE		SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKYO TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NO.8		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989		DRAWN K.E. CHECKED DESIGNED A. Maja H. CHECKED		RECOMMENDED PROJECT ENGINEER APPROVED 25. 10. 89 EXECUTIVE ENGINEER SECRETARY		SCALES 0 10 20 30 40 50 60 70 80 90 100m HORIZ SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100		SHEET 46 OF 303		PROJECT No. S.C. 120-33-814/B		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 33 + 700 — CH. 34 + 400 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88080	

MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88080

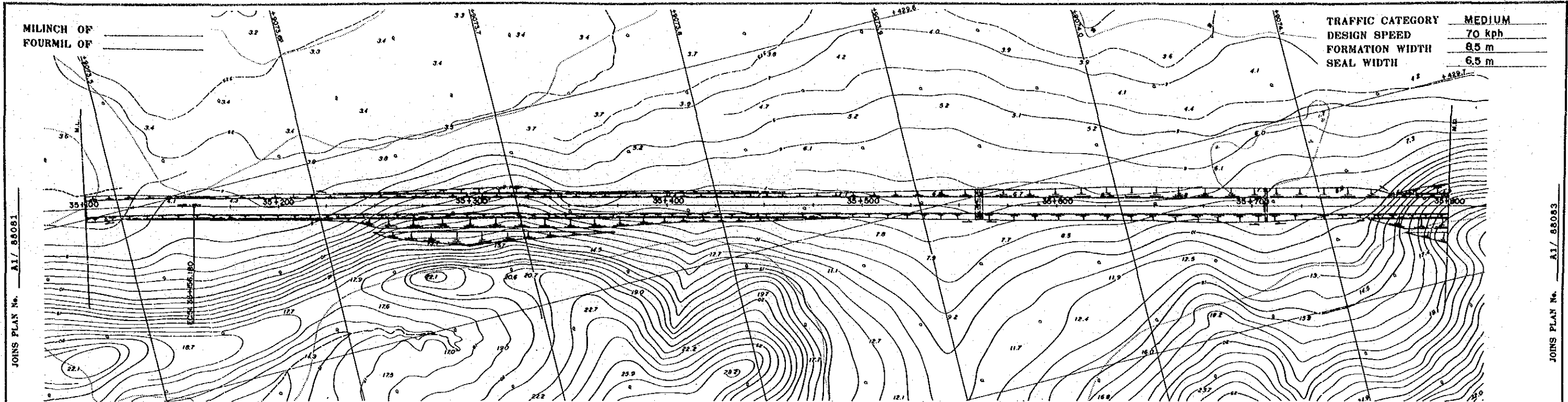
JOINS PLAN No. A1/ 88082



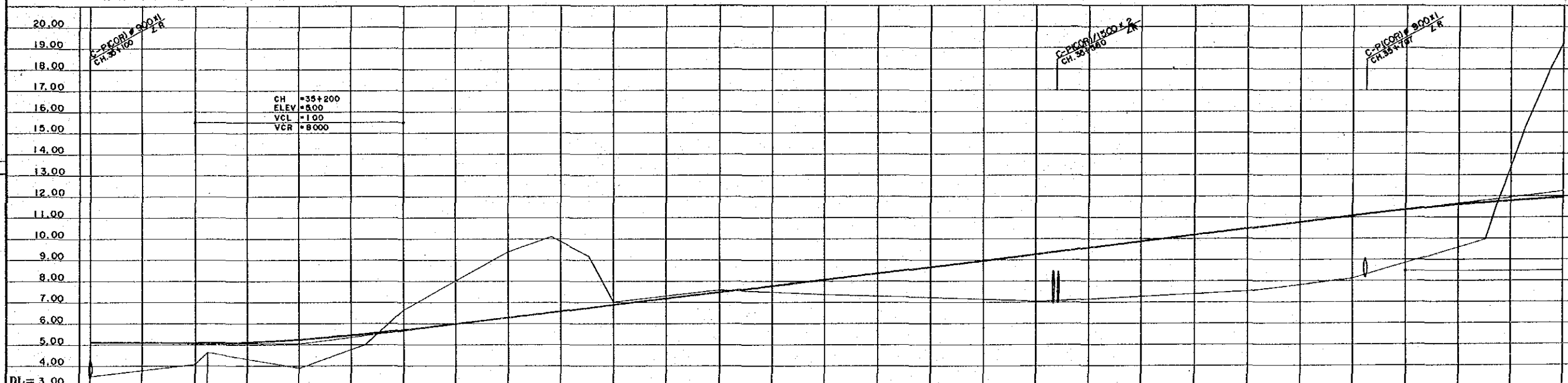
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

SURVEY JICA VERTICAL DATUM OKKIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA089 SURVEY BOOK NOS.		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Principal: <i>J. Kawai</i> Date: 25 Sep. 1989		DRAWN K.E. <i>K. Kawai</i> CHECKED <i>C. A. J.</i> DESIGNED <i>A. Magaki</i> CHECKED <i>P. Kawasumi</i>		RECOMMENDED <i>R. Hage</i> PROJECT ENGINEER APPROVED <i>J. Lewis</i> 29. 10. 89 PRINCIPAL ENGINEER EXECUTIVE ENGINEER		SCALES 0 10 20 30 40 50 60 70 80 90 100m HORIZ. SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAUVA SECTION) PLAN & LONGITUDINAL SECTION CH. 34 + 400 CH. 35 + 100 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88081			
REV.	AMENDMENTS	BY	APP'D	DATE	SHEET 47 OF 303		PROJECT No. S.C. 120-33-814/B		REV.				



TRAFFIC CATEGORY	MEDIUM
DESIGN SPEED	70 kph
FORMATION WIDTH	8.5 m
SEAL WIDTH	6.5 m



- NOTES:
- Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 - Scale factor of 0.9996 at central meridian 147° East Longitude applies

CH	ELEV	VCL	VCR
35+200	5.00	1.00	8.000

CH	ELEV	VCL	VCR
35+000	3.45	3.72	3.038
35+025	4.03	4.56	5.024
35+050	4.25	3.84	5.156
35+075	4.71	6.57	5.339
35+100	7.94	9.30	6.200
35+125	7.94	9.84	6.500
35+150	6.97	7.25	7.100
35+175	7.53	7.41	7.700
35+200	7.30	7.24	8.300
35+225	7.17	7.07	8.900
35+250	6.96	7.08	9.500
35+275	7.20	7.33	10.100
35+300	7.46	7.74	10.700
35+325	8.02	8.77	11.300
35+350	9.52	13.31	11.756
35+375	19.05		11.877

OFFSET PEGS		
DIST	OFFSET	R.L.

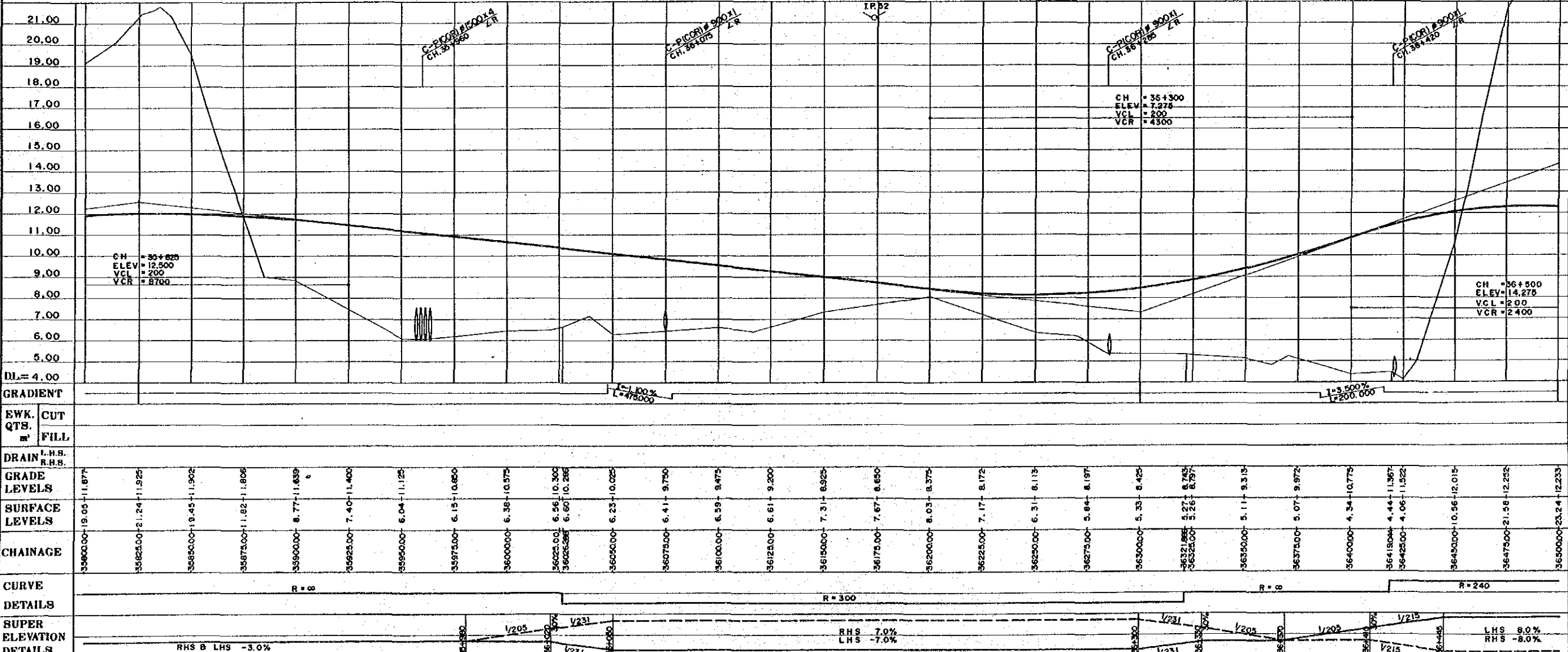
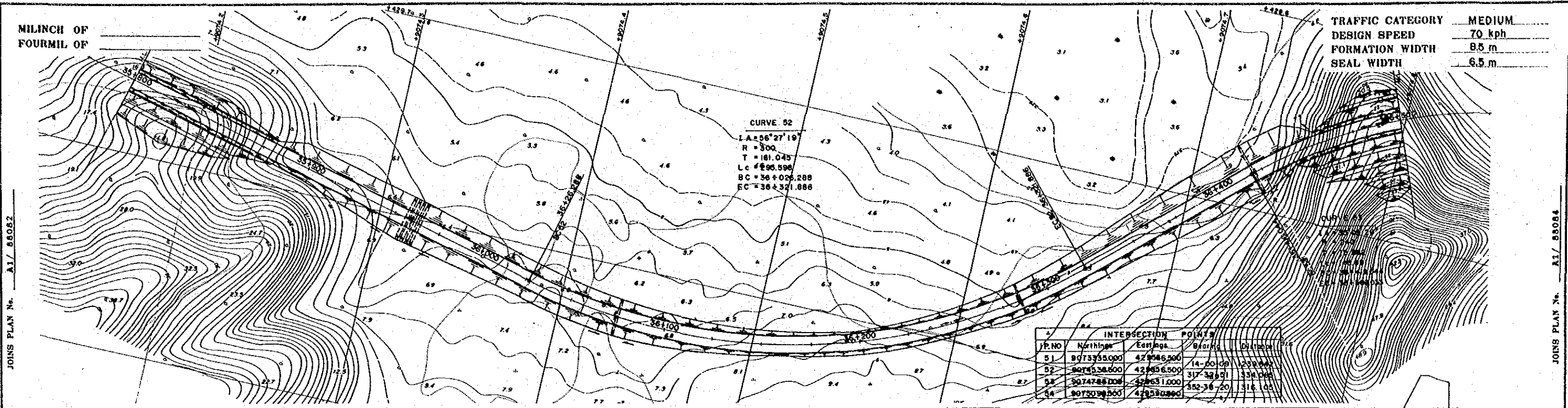
REV AMENDMENTS BY APP'D DATE		SURVEY JICA VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA893 SURVEY BOOK NOS		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY 25 Sep. 1989 Date		DRAWN K.E. CHECKED DESIGNED PROJECT ENGINEER EXECUTIVE ENGINEER		RECOMMENDED APPROVED PRINCIPAL ENGINEER SECRETARY		SCALES 0 10 20 30 40 50 60 70 80 90 100(m) HORIZ SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10(m) VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 35 + 100 — CH. 35 + 800 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88082	
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MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88082

JOINS PLAN No. A1/ 88084



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

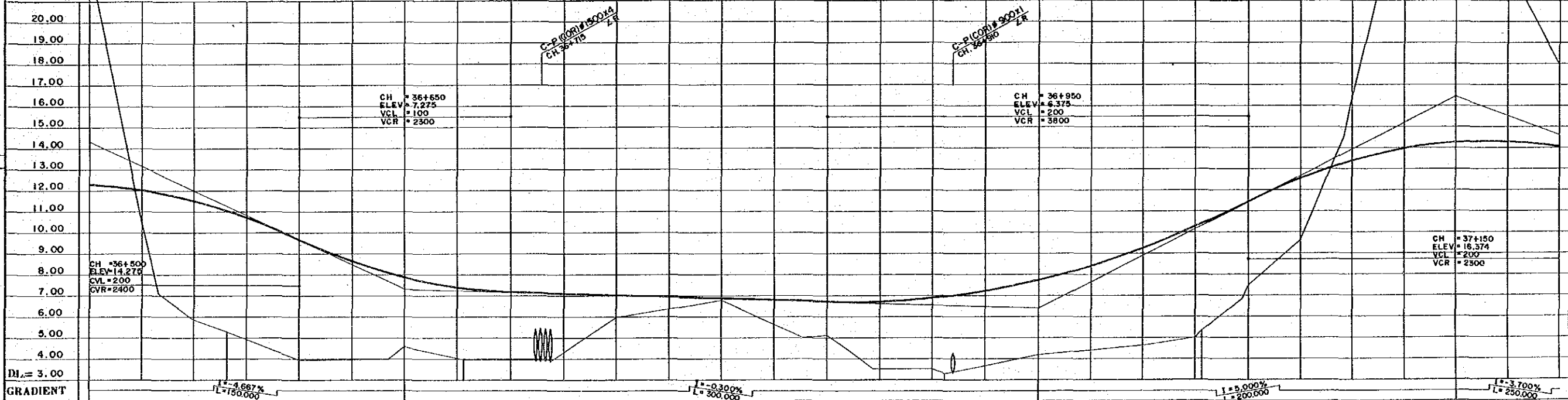
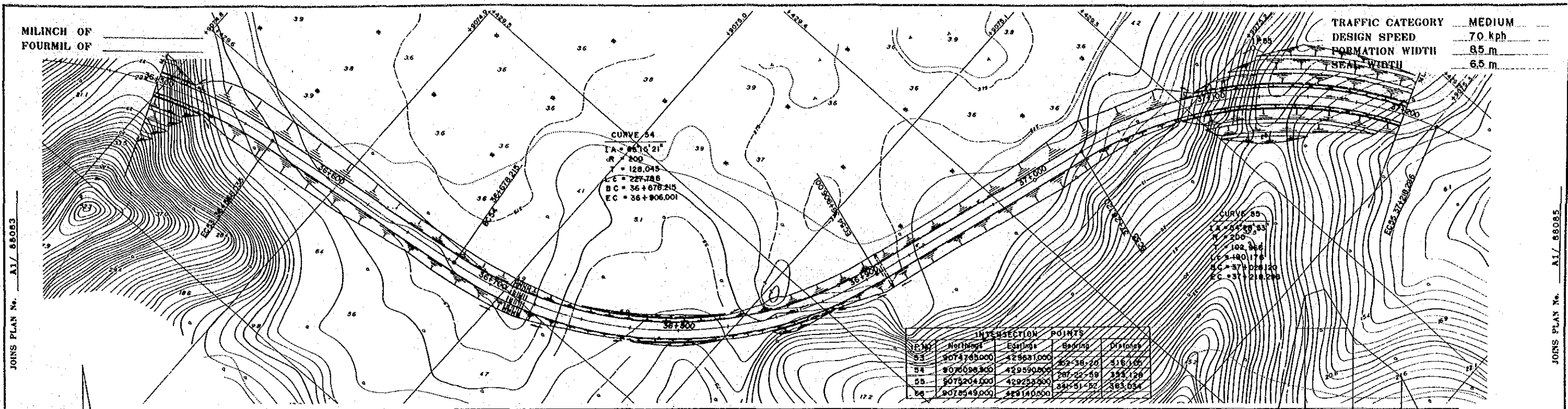
JICA JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989 Vertical Datum: MEAN SEA LEVEL TOKYO TIDE G. Horizontal Datum: AZIMUTH DATA A.M.G. AA089 Survey Book No. 8		DESIGN K. E. PROJECT ENGINEER L. K. EXECUTIVE ENGINEER		RECOMMENDED APPROVED: 26.10.89 SECRETARY		SCALES HORZ SECTION 1:1,000 VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 35 + 800 — CH. 36 + 500 P.A.P.U.A. NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88083				
REV.	AMENDMENTS	BY	APP'D	DATE								

MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88083

JOINS PLAN No. A1/ 88085



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

CH	ELEV	VCL	VCR
36+500	7.275	100	2300
36+950	6.375	200	3800
37+150	16.374	200	2500

CHAINAGE	GRADE LEVELS	SURFACE LEVELS
36600.00	12.235	23.24
36625.00	11.960	10.46
36650.00	11.43	5.84
36675.00	10.968	5.25
36700.00	10.647	4.90
36725.00	9.608	3.92
36750.00	8.978	3.93
36775.00	7.821	4.56
36800.00	7.356	4.01
36825.00	7.354	3.34
36850.00	7.125	5.83
36875.00	6.975	4.28
36900.00	6.900	5.94
36925.00	6.825	6.36
36950.00	6.750	6.77
36975.00	6.675	5.11
37000.00	6.665	3.90
37025.00	6.856	3.49
37050.00	6.925	3.27
37075.00	7.195	3.66
37100.00	7.700	4.18
37125.00	8.370	4.40
37150.00	9.206	4.62
37175.00	10.209	4.98
37200.00	10.344	5.35
37225.00	11.375	7.45
37250.00	12.489	9.59
37275.00	13.331	16.31
37300.00	13.902	26.67
37325.00	14.200	24.54
37350.00	14.227	22.51
37375.00	13.991	17.84

OFFSET PECS
DIST OFFSET R.L.

<p>DESIGN: JAPAN INTERNATIONAL CO-OPERATION AGENCY</p> <p>DESIGNED: a. Magato</p> <p>CHECKED: 7. Kawakami</p>		<p>DRAWN: K.E.</p> <p>CHECKED: [Signature]</p> <p>DESIGNED: a. Magato</p> <p>CHECKED: 7. Kawakami</p>		<p>RECOMMENDED: [Signature]</p> <p>APPROVED: 25. 10. 1989</p> <p>SECRETARY: [Signature]</p>		<p>SCALES: HORIZ SECTION 1:1,000; VERTICAL SECTION 1:100</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 36 + 500 — CH. 37 + 200</p>	
<p>VERTICAL DATUM: MEAN SEA LEVEL TOKEA TIDE G. ORIGIN</p> <p>HORIZONTAL DATUM: AZIMUTH DATA A.M.G. AA009 ORIGIN</p> <p>SURVEY BOOK NO. 8</p>		<p>DATE: 25 Sep. 1989</p>		<p>PROJECT No. S.C. 120-33-814/R</p>		<p>PAPUA NEW GUINEA DEPARTMENT OF WORKS</p>		<p>DRAWING No. A1/ 88084</p>	

MILINCH OF
FOURMIL OF

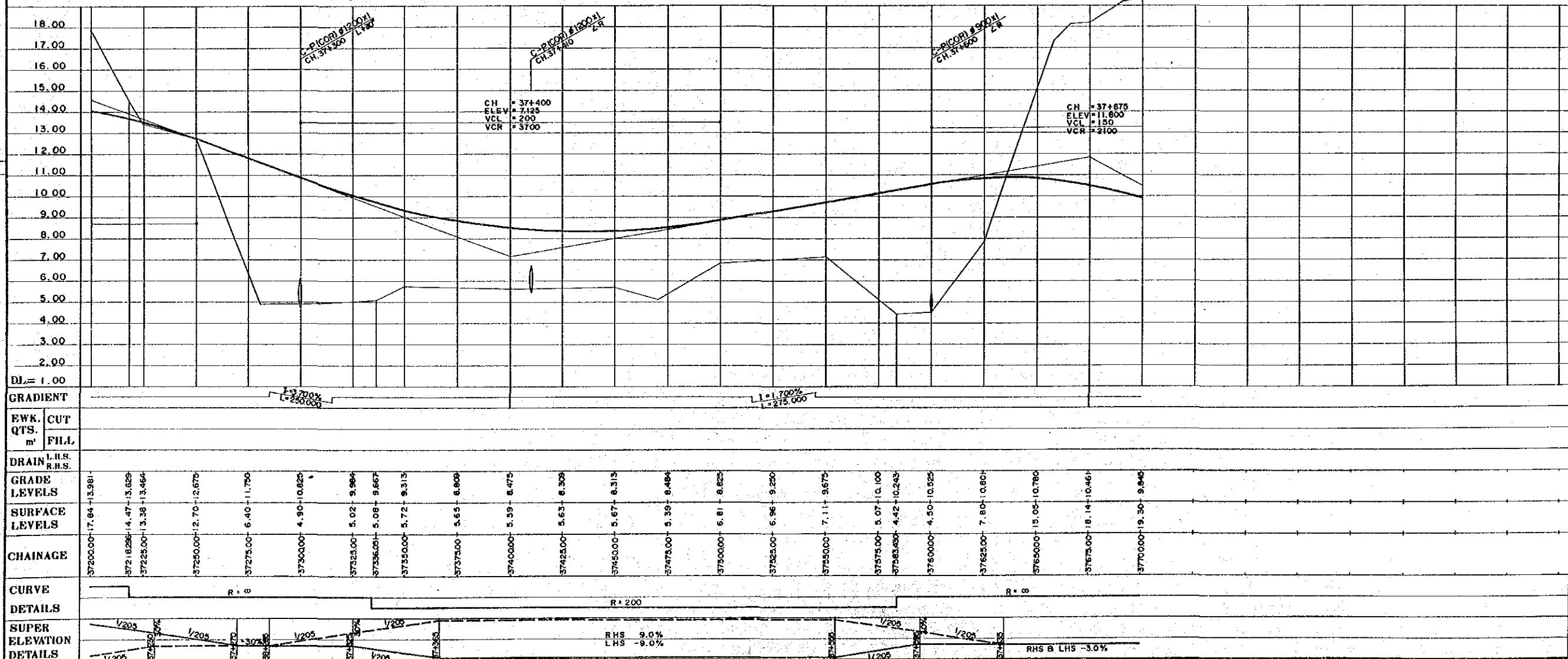
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

CURVE 56
I A = 70° 52' 08"
R = 200
T = 142.314
Lc = 247.372
B.C = 37+336.051
E.C = 37+683.430

INTERSECTION POINTS			
IP No	Northings	Eastings	Distance
55	9075204.000	429253.500	341-51-52 363.034
56	9075549.000	429140.500	270-59-44 892.135
57	9075564.500	428248.500	

JOINS PLAN No. A1/ 88084

JOINS PLAN No. A1/ 88085



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

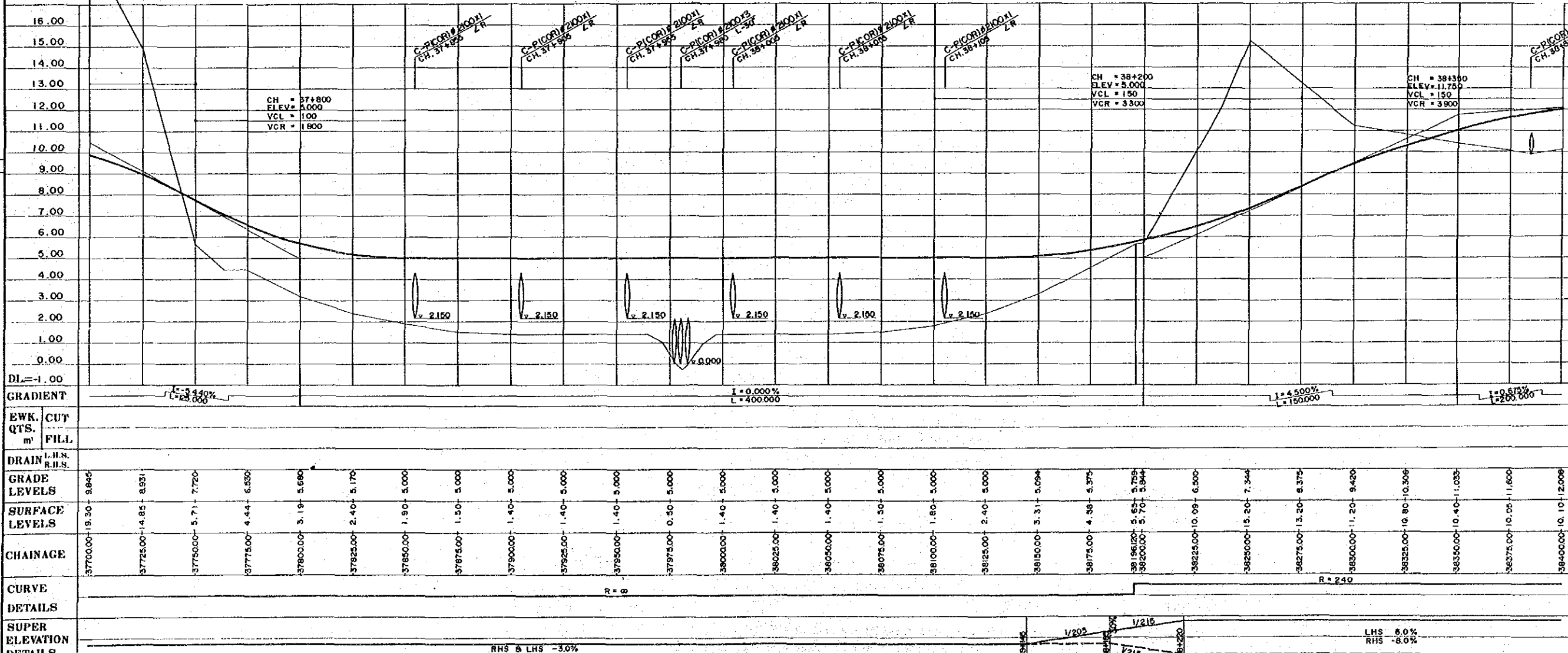
OFFSET PEGS
DIST OFFSET R.L.

REV	AMENDMENTS			BY	APP'D	DATE	SURVEY BOOK REF.	JICA JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989 Principal: <i>J. Yabuki</i>	DRAWN: K.E. CHECKED: <i>[Signature]</i> DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i>	PROJECT ENGINEER: <i>[Signature]</i> EXECUTIVE ENGINEER: <i>[Signature]</i>	RECOMMENDED: <i>[Signature]</i> PRINCIPAL ENGINEER: <i>[Signature]</i> APPROVED: 25.10.89 SECRETARY: <i>[Signature]</i>	SCALES: 0 10 20 30 40 50 60 70 80 90 100m HORIZ. SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 37 + 200 — CH. 37 + 700 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88085	
	SHEET 51 OF 303		PROJECT No. S.C.120-33-814/B										DRAWING No. A1/ 88085	

MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

IP NO	Northings	Eastings	Bearing	Distance
56	8075648.000	429140.000	270-09-44	892.135
57	8075964.000	428248.000	330-28-52	377.503
58	8075883.000	428042.000		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.I.

REV	AMENDMENTS	BY	APP'D	DATE	SURVEY JICA Date	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date	DRAWN K.E. Date	RECOMMENDED Date	SCALE HORIZ SECTION 1:1,000 VERTICAL SECTION 1:100	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 37 + 700 — CH. 38 + 400
					VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NO.8					PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88086

JOINS PLAN No. A1/ 86065

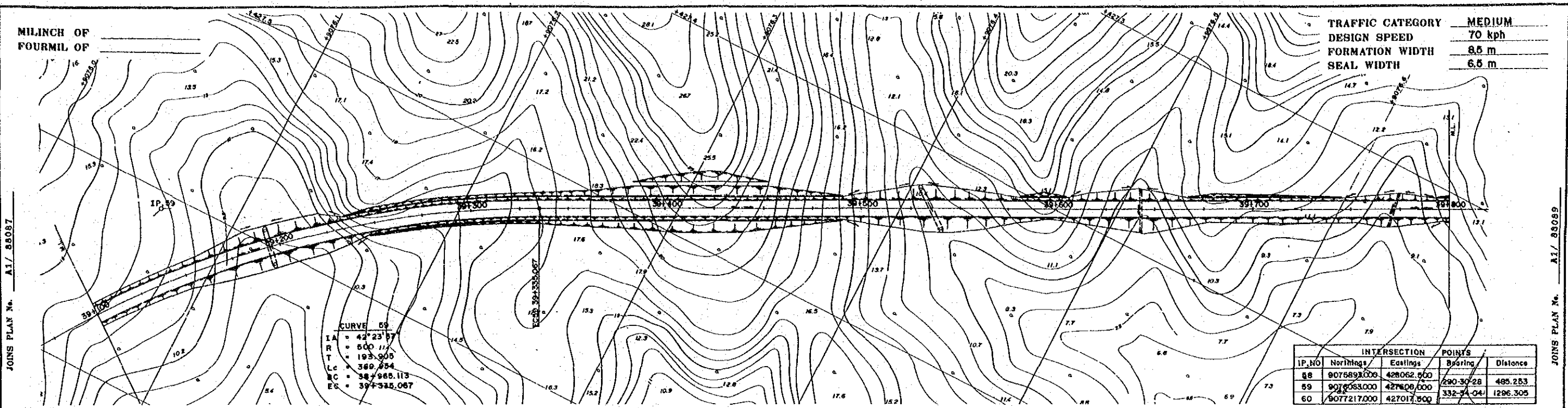
JOINS PLAN No. A1/ 86087

MILINCH OF
FOURMIL OF

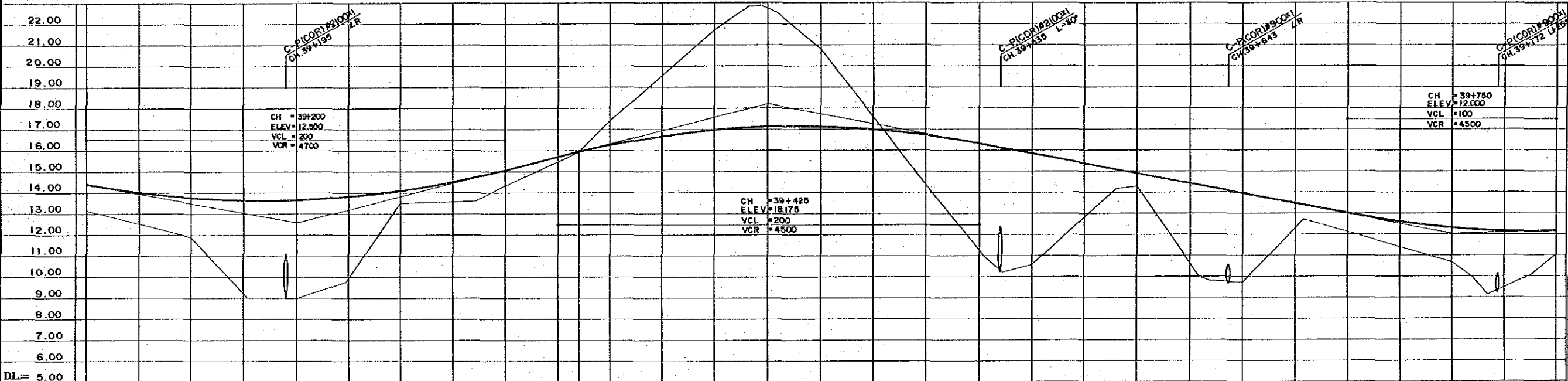
TRAFFIC CATEGORY	MEDIUM
DESIGN SPEED	70 kph
FORMATION WIDTH	8.5 m
SEAL WIDTH	6.5 m

JOINS PLAN No. A1/ 88087

JOINS PLAN No. A1/ 88089



IP No	INTERSECTION		POINTS	
	Northing	Eastings	Bearing	Distance
58	9075893.006	428062.950	290-30-28	495.253
59	9075883.000	427808.000	332-54-04	1296.305
60	9077217.000	427017.800		

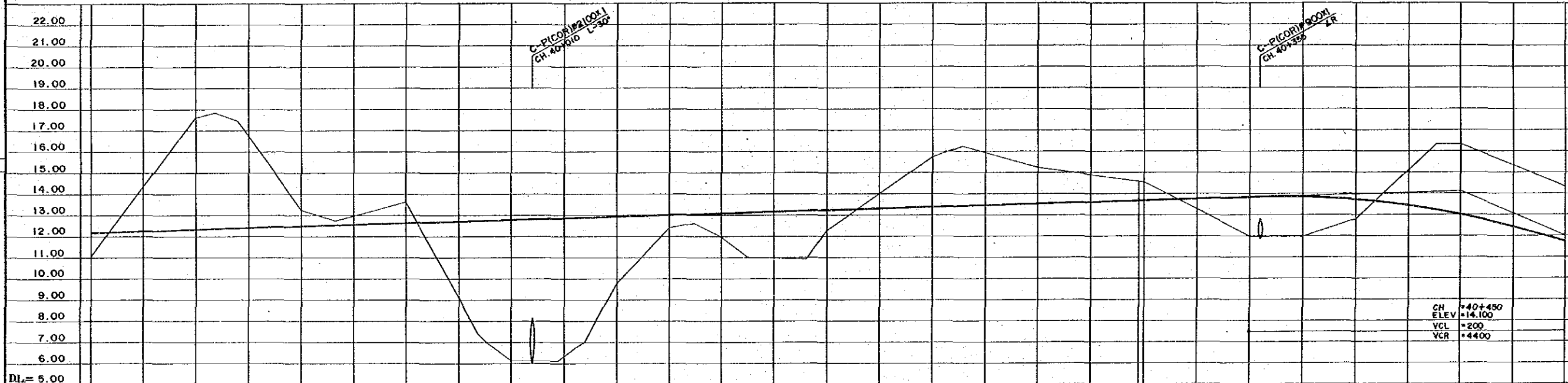
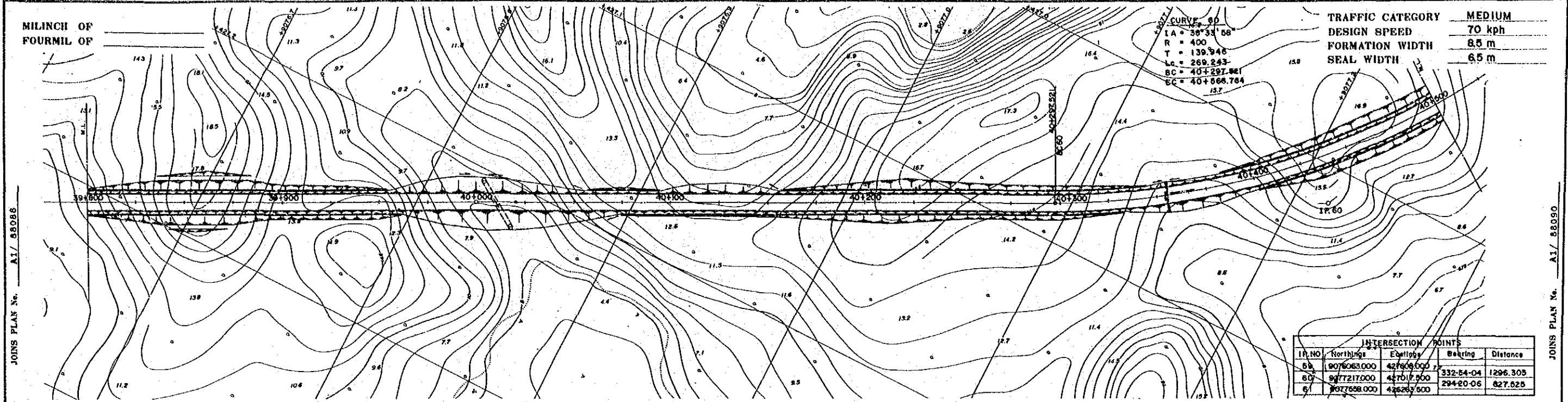


NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

DL= 5.00	GRADIENT		LHS R.H.S.	LHS R.H.S.	GRADE LEVELS	SURFACE LEVELS	CHAINAGE	CURVE DETAILS	SUPER ELEVATION DETAILS
	EWK. CUT	FILL							
					13.11-14.350	12.49-13.967	39100.00	R=500	LHS 5.0% RHS -5.0%
					11.86-13.719	9.21-13.605	39150.00		
					8.97-13.625	9.89-13.780	39200.00		
					9.21-13.605	13.49-14.069	39250.00		
					13.57-14.462	14.32-15.050	39300.00		
					15.45-15.675	15.91-15.916	39350.00		
					17.39-16.231	19.52-16.850	39400.00		
					21.64-16.931	22.67-17.075	39450.00		
					20.75-17.061	17.53-16.950	39500.00		
					14.35-16.681	11.25-16.275	39550.00		
					10.56-15.800	12.80-15.325	39600.00		
					14.26-14.850	10.39-14.375	39650.00		
					9.70-13.900	12.29-13.425	39700.00		
					11.39-12.544	12.10-12.950	39750.00		
					10.65-12.275	9.47-12.144	39800.00		
					11.00-12.150		39850.00		

OFFSET PEGS
DIST OFFSET R.L.

<p>REV. AMENDMENTS</p>		<p>BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKYO TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK Nos</p>		<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989</p>		<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>		<p>RECOMMENDED PROJECT ENGINEER APPROVED EXECUTIVE ENGINEER</p>		<p>SCALES HORIZ SECTION 1:1,000 VERTICAL SECTION 1:100</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 39 + 100 — CH. 39 + 800</p>		<p>PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88088</p>		<p>PROJECT No. S.C.120-33-814/B SHEET 54 OF 303</p>	
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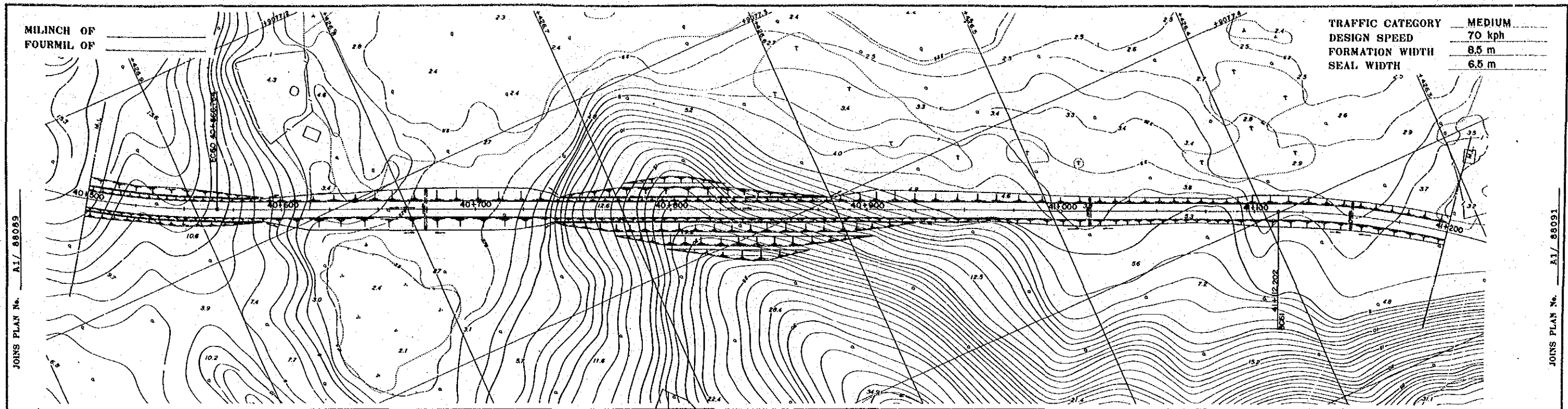


CH. 39+800	39+825.00	39+850.00	39+875.00	39+900.00	39+925.00	39+950.00	39+975.00	40+000.00	40+025.00	40+050.00	40+075.00	40+100.00	40+125.00	40+150.00	40+175.00	40+200.00	40+225.00	40+250.00	40+275.00	40+300.00	40+325.00	40+350.00	40+375.00	40+400.00	40+425.00	40+450.00	
11.00	14.25	17.55	16.70	13.20	12.94	13.59	9.04	6.10	6.33	9.80	12.40	11.93	10.95	12.25	13.99	15.70	15.89	14.85	14.94	14.51	13.23	11.95	12.77	15.09	16.29	15.28	14.28
11.00	14.25	17.55	16.70	13.20	12.94	13.59	9.04	6.10	6.33	9.80	12.40	11.93	10.95	12.25	13.99	15.70	15.89	14.85	14.94	14.51	13.23	11.95	12.77	15.09	16.29	15.28	14.28

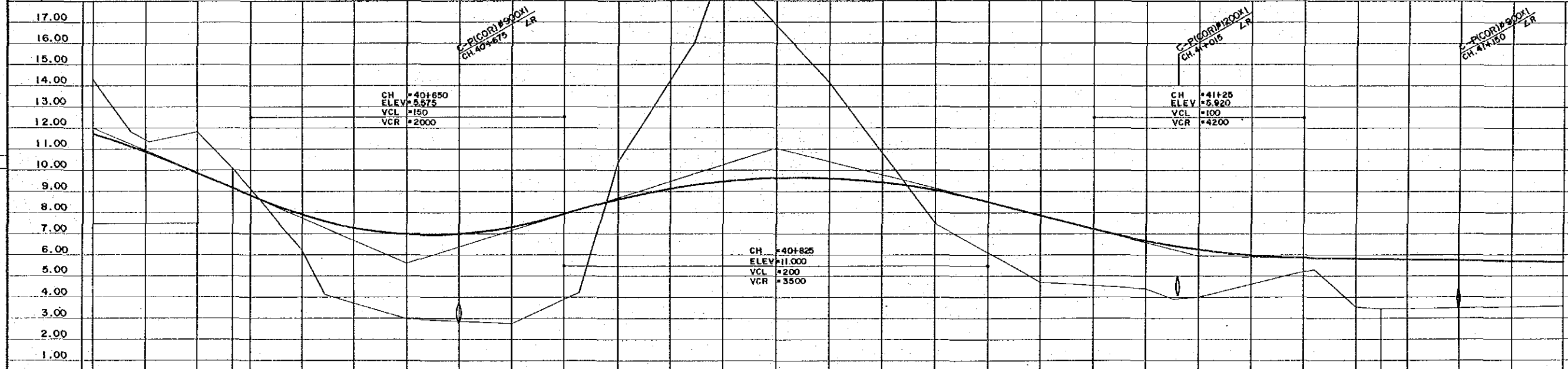
NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9998 at central meridian 147° East Longitude applies

OFFSET PEGS
 DIST OFFSET R.L.

REV AMENDMENTS BY APP'D DATE		SURVEY JICA Date VERTICAL DATUM MEAN SEA LEVEL TOKYO TIDE G. HORIZONTAL DATUM AZIMUTH DATA A.M.G. AAG89 SURVEY BOOK NTS		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 26 Sep. 1989		DRAWN K.E. CHECKED DESIGNED CHECKED		RECOMMENDED PROJECT ENGINEER APPROVED EXECUTIVE ENGINEER		SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 39 + 800 — CH. 40 + 500		PAPER NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88089	
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TRAFFIC CATEGORY	MEDIUM
DESIGN SPEED	70 kph
FORMATION WIDTH	8.5 m
SEAL WIDTH	6.5 m



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

DL = 0.00																													
GRADIENT	-4.26% L=200.000					-3.100% L=175.000					-2.540% L=200.000					-0.160% L=575.000													
EWK. CUT																													
QTS.																													
m' FILL																													
DRAIN																													
L.H.S.																													
R.H.S.																													
GRADE LEVELS	14.28	11.41	9.83	9.12	7.86	7.25	6.95	6.96	7.27	7.90	8.57	9.29	9.57	9.72	9.07	8.46	7.82	7.19	6.62	6.21	5.94	5.84	5.80	5.78	5.76	5.72	5.68	5.64	
SURFACE LEVELS	14.28	11.41	9.83	9.12	7.86	7.25	6.95	6.96	7.27	7.90	8.57	9.29	9.57	9.72	9.07	8.46	7.82	7.19	6.62	6.21	5.94	5.84	5.80	5.78	5.76	5.72	5.68	5.64	
CHAINAGE	40500.00	40625.00	40750.00	40875.00	41000.00	41125.00	41250.00	41375.00	41500.00	41625.00	41750.00	41875.00	42000.00	42125.00	42250.00	42375.00	42500.00	42625.00	42750.00	42875.00	43000.00	43125.00	43250.00	43375.00	43500.00	43625.00	43750.00	43875.00	44000.00
CURVE DETAILS	R=400										R=∞										R=400								
SUPER ELEVATION DETAILS	RHS & LHS -3.0%																				LHS 6.0% RHS -6.0%								

OFFSET PEGS

DIST	OFFSET	R.L.

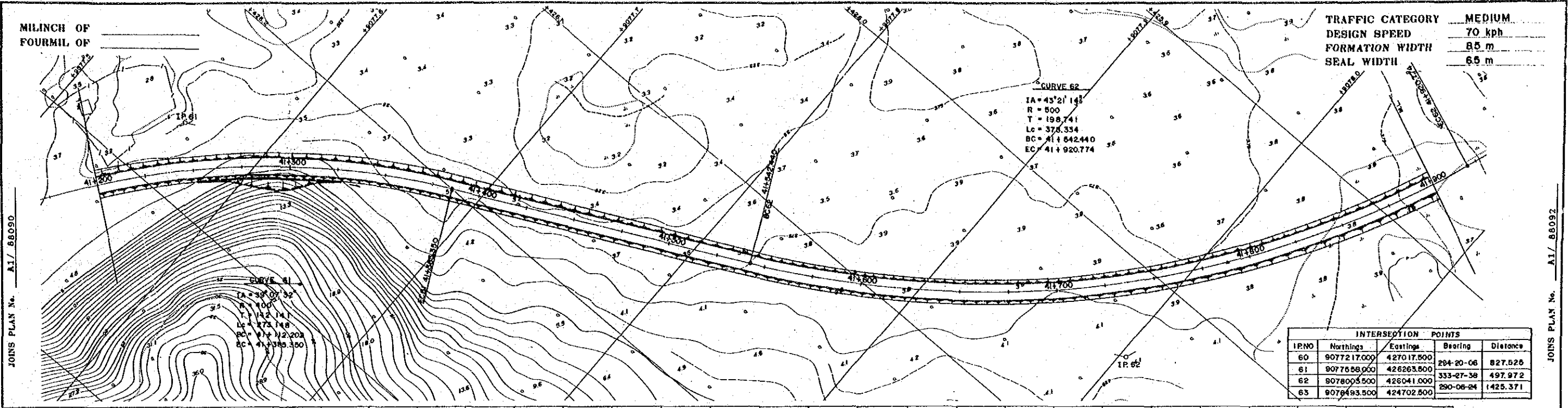
SURVEY JICA Date: _____ VERTICAL DATUM: ORIGIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM: ORIGIN AZIMUTH DATA A.M.G. A4089 SURVEY BOOK NO. _____		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989		DRAWN K.E. CHECKED: _____ DESIGNED: _____ CHECKED: _____		RECOMMENDED PROJECT ENGINEER: _____ PRINCIPAL ENGINEER: _____ APPROVED: _____ 25.10.89 EXECUTIVE ENGINEER: _____ SECRETARY: _____		SCALES 0 10 20 30 40 50 60 70 80 90 100m HORIZ SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 40 + 500 --- CH. 41 + 200 P.A.P. NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88090	
REV.	AMENDMENTS	BY	APP'D	DATE			SHEET 56 of 303		PROJECT No. S.C.120-33-814/R		

MILINCH OF
FOURMIL OF

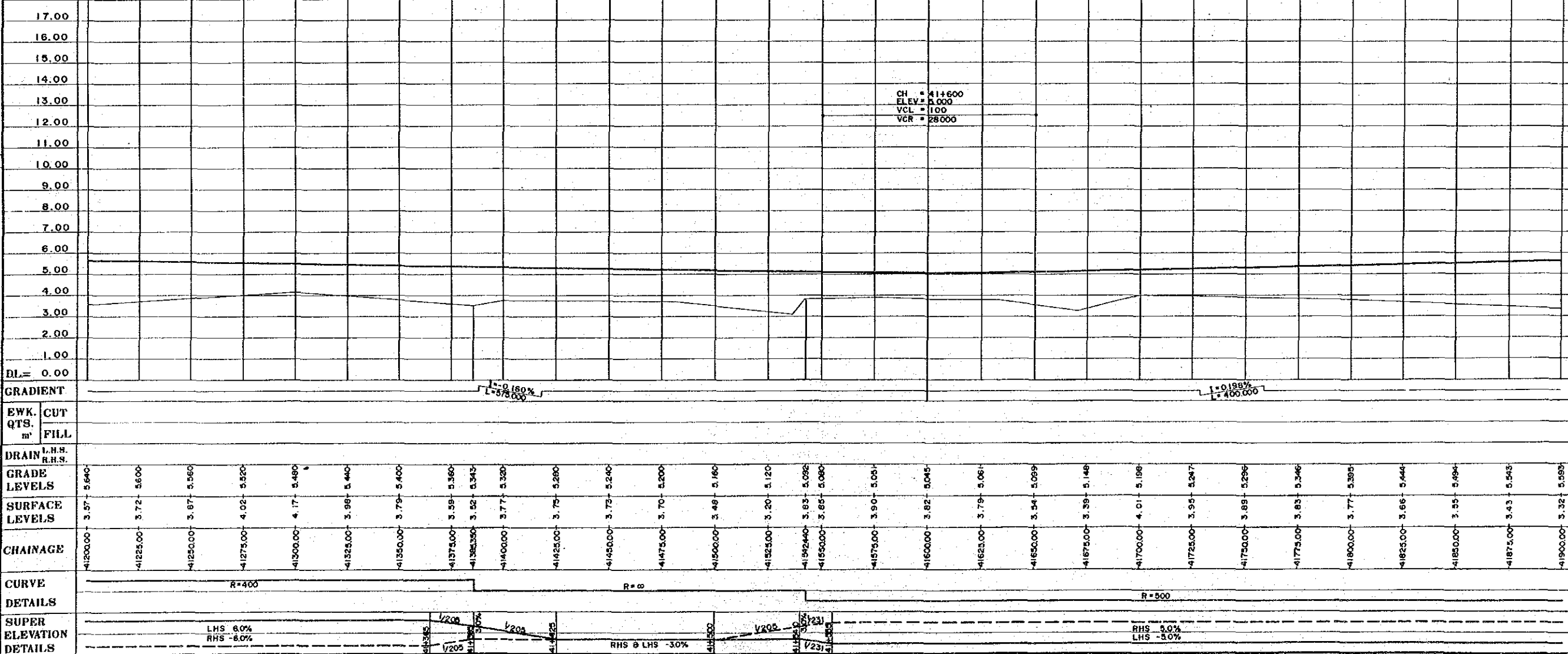
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88090

JOINS PLAN No. A1/ 88092



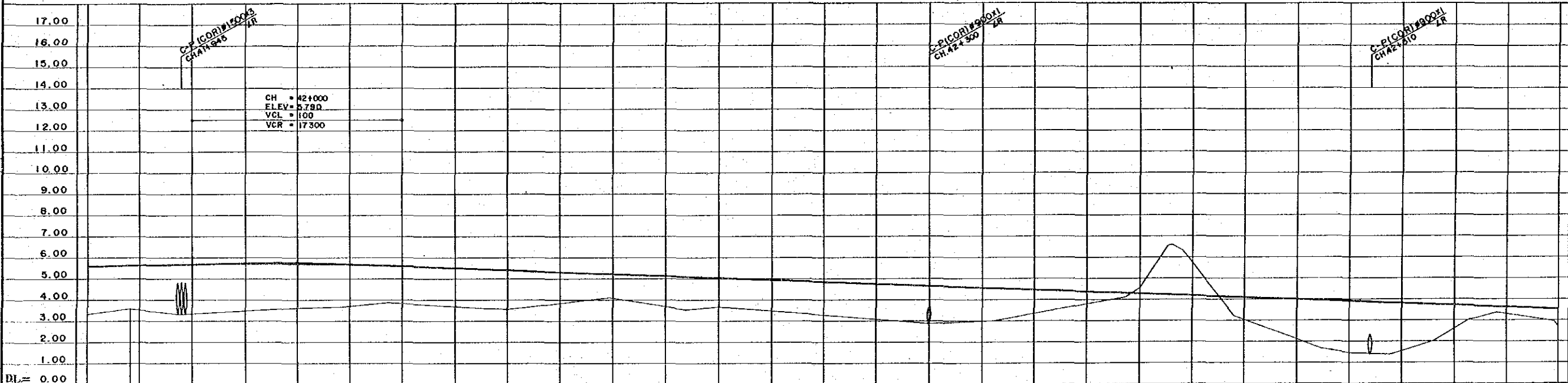
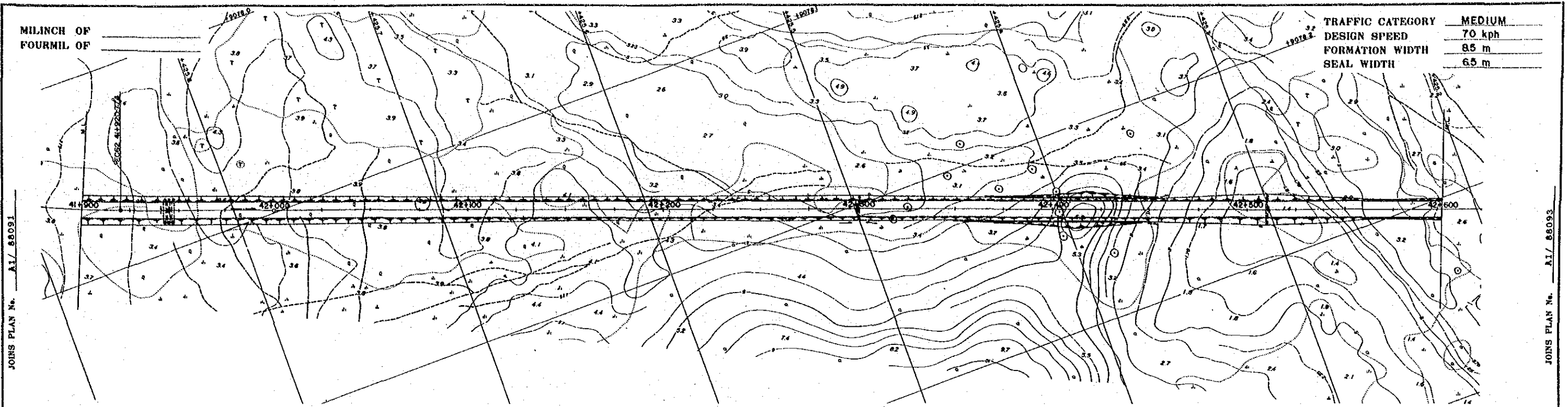
INTERSECTION POINTS				
IPNO	Northings	Eastings	Bearing	Distance
60	9077217.000	427017.500	294-20-06	827.525
61	9077658.000	426263.500	333-27-38	497.972
62	9078005.500	426041.000	290-06-24	1425.371
63	9078493.500	424702.500		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

<p>REV. AMENDMENTS</p>		<p>BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK H7.8</p>		<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989 Dns</p>		<p>DRAWN K.E. CHECKED C. J. A. DESIGNED A. Magar CHECKED J. Kamukani</p>		<p>RECOMMENDED K. K. K. PROJECT ENGINEER APPROVED 25.10.89 J. L. S. EXECUTIVE ENGINEER</p>		<p>SCALES 0 10 20 30 40 50 60 70 80 90 100m HORIZ. SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 41 + 200 --- CH. 41 + 900 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88091</p>	
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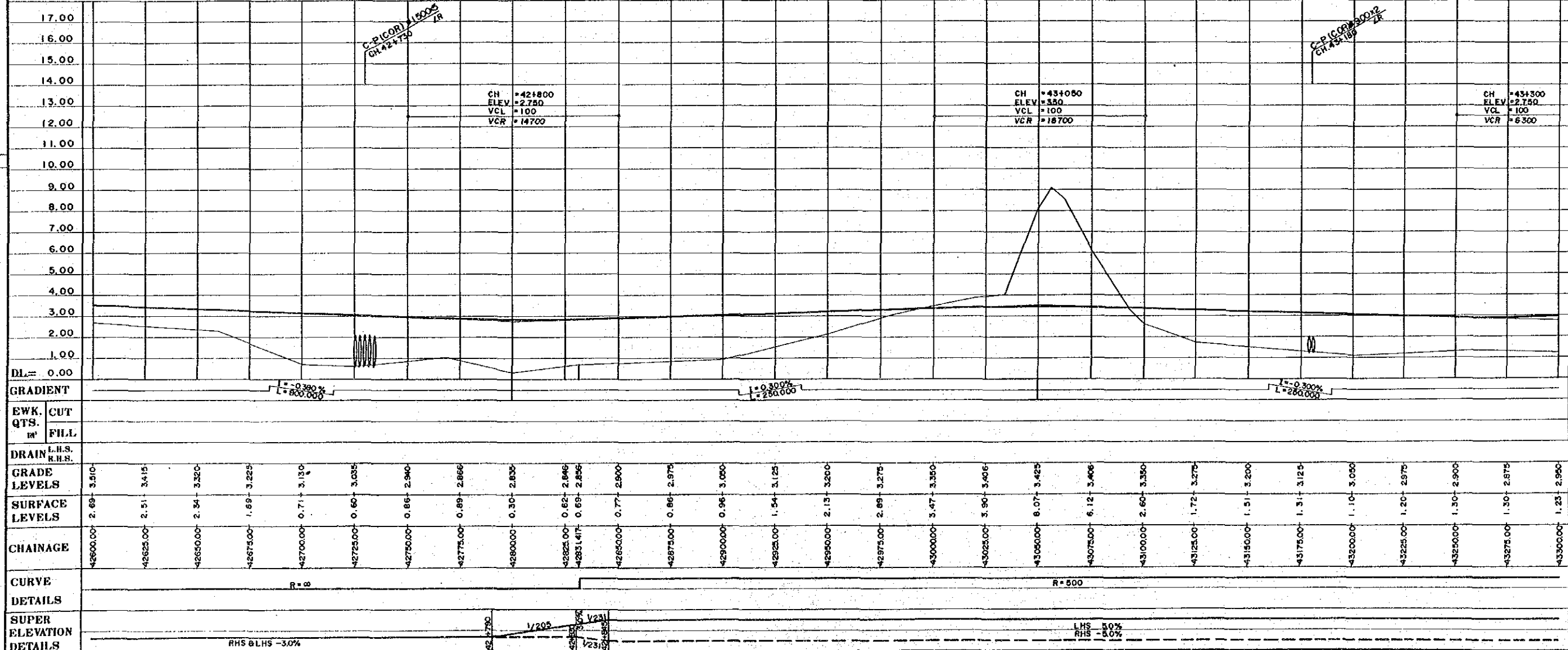
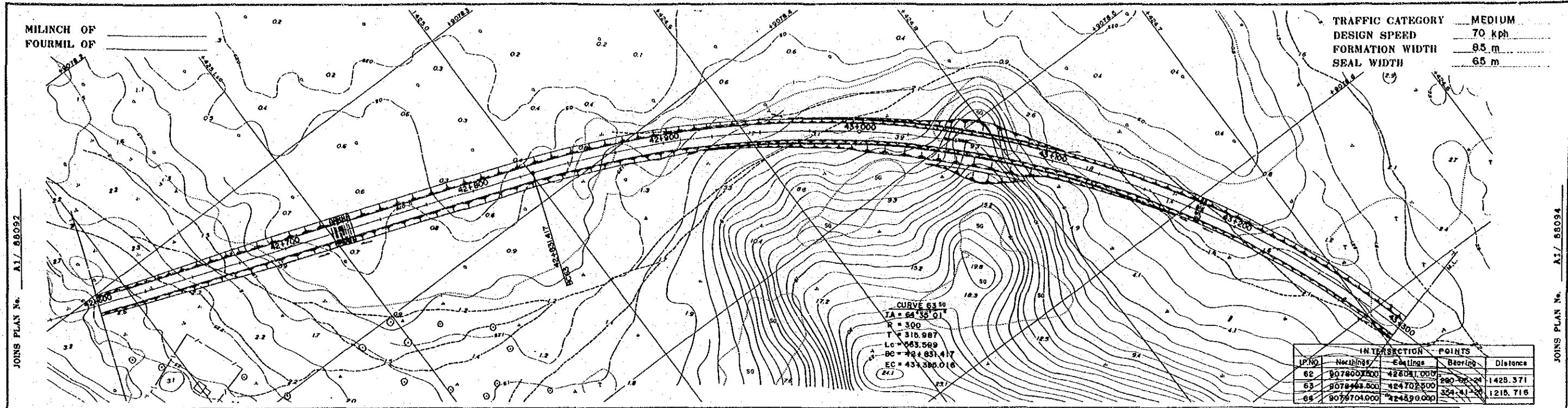
NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

GRADIENT	L = 0.198%		L = -0.380%	
	L = 1:400.000		L = 800.000	
EWK. CUT				
QTS.				
m' FILL				
DRAIN I.H.S. R.H.S.				
GRADE LEVELS	5.593			
SURFACE LEVELS	3.32	3.57	3.52	3.64
CHAINAGE	41900.00	41925.00	41950.00	41975.00
CURVE DETAILS	R = 500			
SUPER ELEVATION DETAILS	RHS & LHS -3.0%			

OFFSET PEGS

DIST	OFFSET	R.L.

JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NOS			DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY 25 Sep. 1989 Date Principal			DRAWN K.E. CHECKED C.A.H. DESIGNED A. Majidi CHECKED Kambhoni		RECOMMENDED PROJECT ENGINEER APPROVED 26.9.89 SECRETARY FAR (15)		SCALES 0 10 20 30 40 50 60 70 80 90 100m HORIZ SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100			CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 41 + 900 — CH. 42 + 600 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88092		
			SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NOS			PROJECT ENGINEER EXECUTIVE ENGINEER		APPROVED 26.9.89 SECRETARY		SHEET 58 OF 303 PROJECT No. S.C.120-33-814/B P.A.P. NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88092					
REV.	AMENDMENTS	BY	APP'D	DATE	REV.			REV.			REV.				



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS

DIST	OFFSET	R.L.

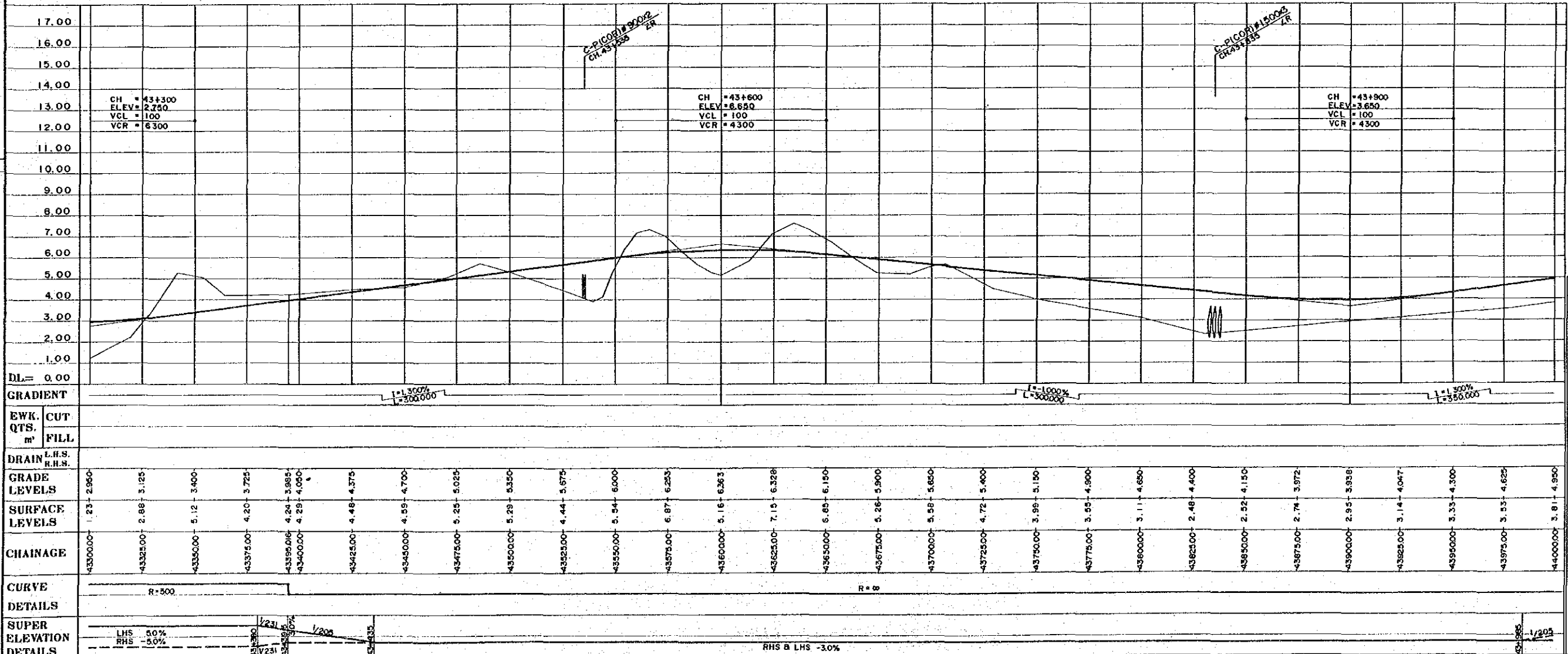
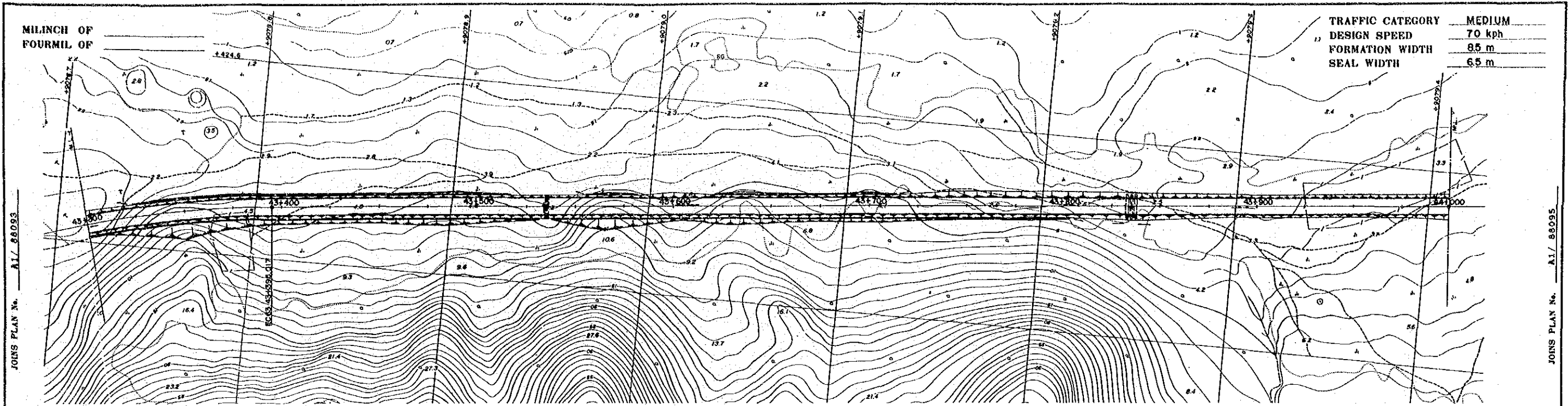
REV AMENDMENTS BY APP'D DATE		SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA099 SURVEY BOOK No. 8		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989		DRAWN K.E. CHECKED DESIGNED CHECKED		RECOMMENDED PROJECT ENGINEER PRINCIPAL ENGINEER APPROVED SECRETARY		SCALES 0 10 20 30 40 50 60 70 80 90 100(m) HORIZ. SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10(m) VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 42 + 600 — CH. 43 + 300 P.A.P.U.A. NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88093	
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MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88093

JOINS PLAN No. A1/ 88093



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	DESIGN	DRAWN	CHECKED	RECOMMENDED	APPROVED	SECRETARY	SHEET	PROJECT No.	PAPUA NEW GUINEA	DRAWING No.
					JICA Date	JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989	K.E. Date					60 OF 303	S.C. 120-33-814/B	PAPUA NEW GUINEA	A1/ 88094

GRADE LEVELS	SURFACE LEVELS	CHAINAGE
2.950	1.23	43300.00
3.125	2.88	43325.00
3.600	5.12	43350.00
3.725	4.20	43375.00
3.985	4.24	43395.00
4.050	4.29	43400.00
4.375	4.48	43425.00
4.700	4.59	43450.00
5.025	5.25	43475.00
5.350	5.29	43500.00
5.675	4.44	43525.00
6.000	5.54	43550.00
6.225	6.87	43575.00
6.263	5.16	43600.00
6.328	7.15	43625.00
6.150	6.68	43650.00
5.900	5.26	43675.00
5.650	5.88	43700.00
5.400	4.72	43725.00
5.150	3.99	43750.00
4.900	3.85	43775.00
4.650	3.11	43800.00
4.400	2.48	43825.00
4.150	2.52	43850.00
3.972	2.74	43875.00
3.938	2.85	43900.00
4.047	3.14	43925.00
4.300	3.33	43950.00
4.625	3.53	43975.00
4.950	3.81	44000.00

DL = 0.00
GRADIENT 1:1.300% L=300.000, 1:1.000% L=300.000, 1:1.300% L=350.000

CURVE DETAILS R=500, R=8

SUPER ELEVATION DETAILS LHS 5.0%, RHS 5.0%, RHS & LHS -3.0%

VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE G.
HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. A4009
SURVEY BOOK H2.S

DESIGN JICA
JAPAN INTERNATIONAL CO-OPERATION AGENCY
Date: 25 Sep. 1989

DRAWN K.E.
CHECKED
DESIGNED A. Magalie
CHECKED

RECOMMENDED
PROJECT ENGINEER
APPROVED
PRINCIPAL ENGINEER
SECRETARY

SCALES
HORIZ SECTION 1:1,000
VERTICAL SECTION 1:100

CENTRAL / GULF PROVINCES
TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION)
PLAN & LONGITUDINAL SECTION
CH. 43 + 300 — CH. 44 + 000

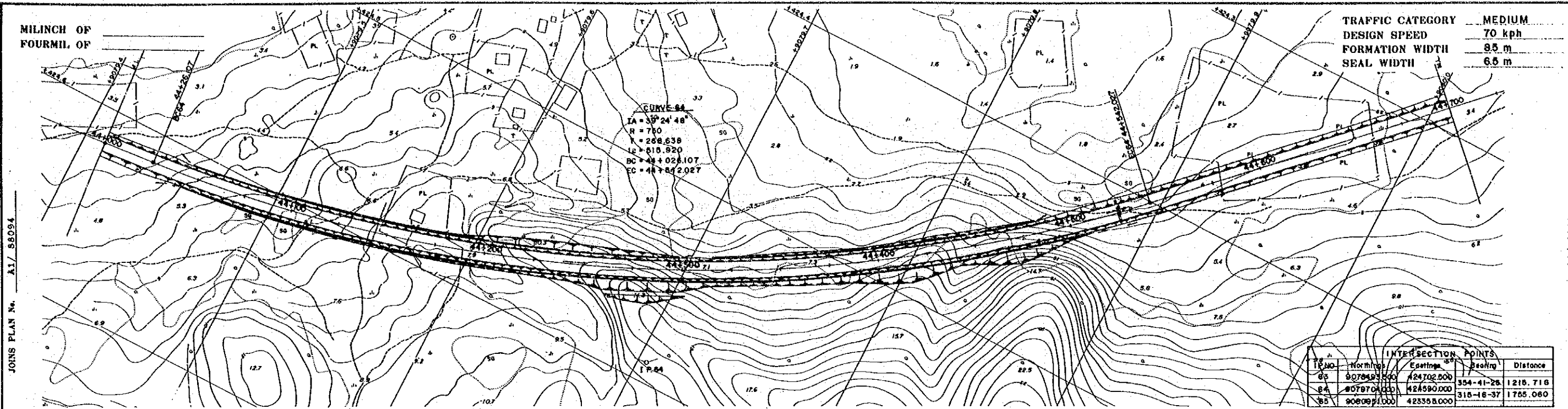
DEPARTMENT OF WORKS
DRAWING No. A1/ 88094

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FOURMIL OF

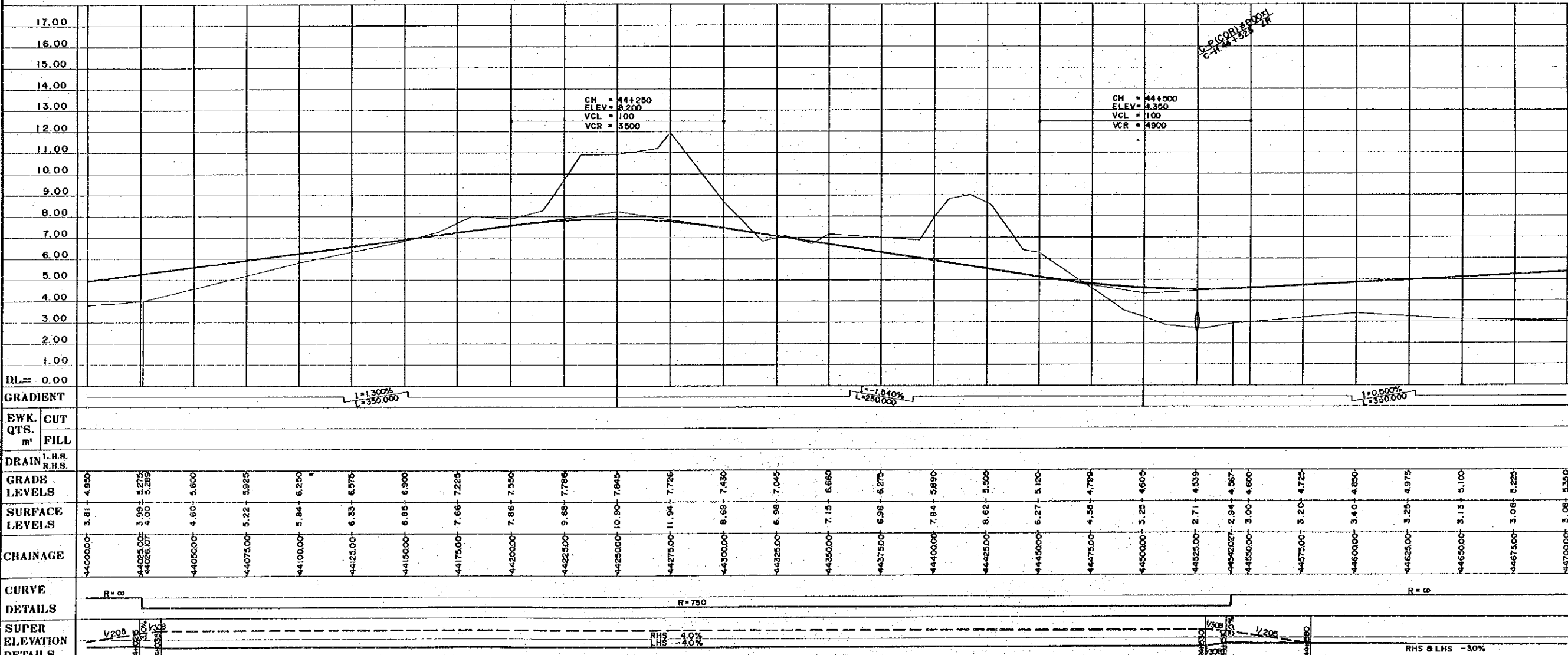
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88094

JOINS PLAN No. A1/ 88095



INTERSECTION POINTS				
TR. NO.	Northings	Eastings	Bearing	Distance
03	9078493.500	424702.500	354-41-28	1218.718
04	9079708.100	424590.000	318-18-37	1755.060
05	9080911.000	423358.000		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

SURVEY JICA VERTICAL DATUM ORIGIN MEAN SEA LEVEL, IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. A4809 SURVEY BOOK NOS.		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY 25 Sep. 1989		DRAWN K.E. CHECKED DESIGNED CHECKED		RECOMMENDED APPROVED PRINCIPAL ENGINEER EXECUTIVE ENGINEER		SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 44 + 000 — CH. 44 + 700 PAPUA NEW GUINEA DEPARTMENT OF WORKS	
REV	AMENDMENTS	BY	APP'D	DATE				SHEET 61 of 303	PROJECT No. S.C. 120-33-814/B	DRAWING No. A1/ 88095	