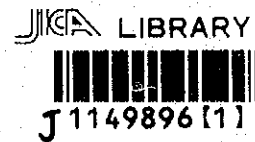


THE MASTER PLAN STUDY  
ON  
IMPROVEMENT AND REHABILITATION  
OF  
ROAD NETWORK  
IN  
ULAANBAATAR IN MONGOLIA

FINAL REPORT

DRAWINGS FOR F/S PROJECTS  
(ROADS, INTERSECTIONS AND BRIDGES)

March 1999



PACIFIC CONSULTANTS INTERNATIONAL  
YACHIYO ENGINEERING CO., LTD

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JR
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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
MINISTRY OF INFRASTRUCTURE DEVELOPMENT  
OF GOVERNMENT OF MONGOLIA  
ULAANBAATAR CITY GOVERNMENT

**THE MASTER PLAN STUDY  
ON  
IMPROVEMENT AND REHABILITATION  
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ROAD NETWORK  
IN  
ULAANBAATAR IN MONGOLIA**

FINAL REPORT

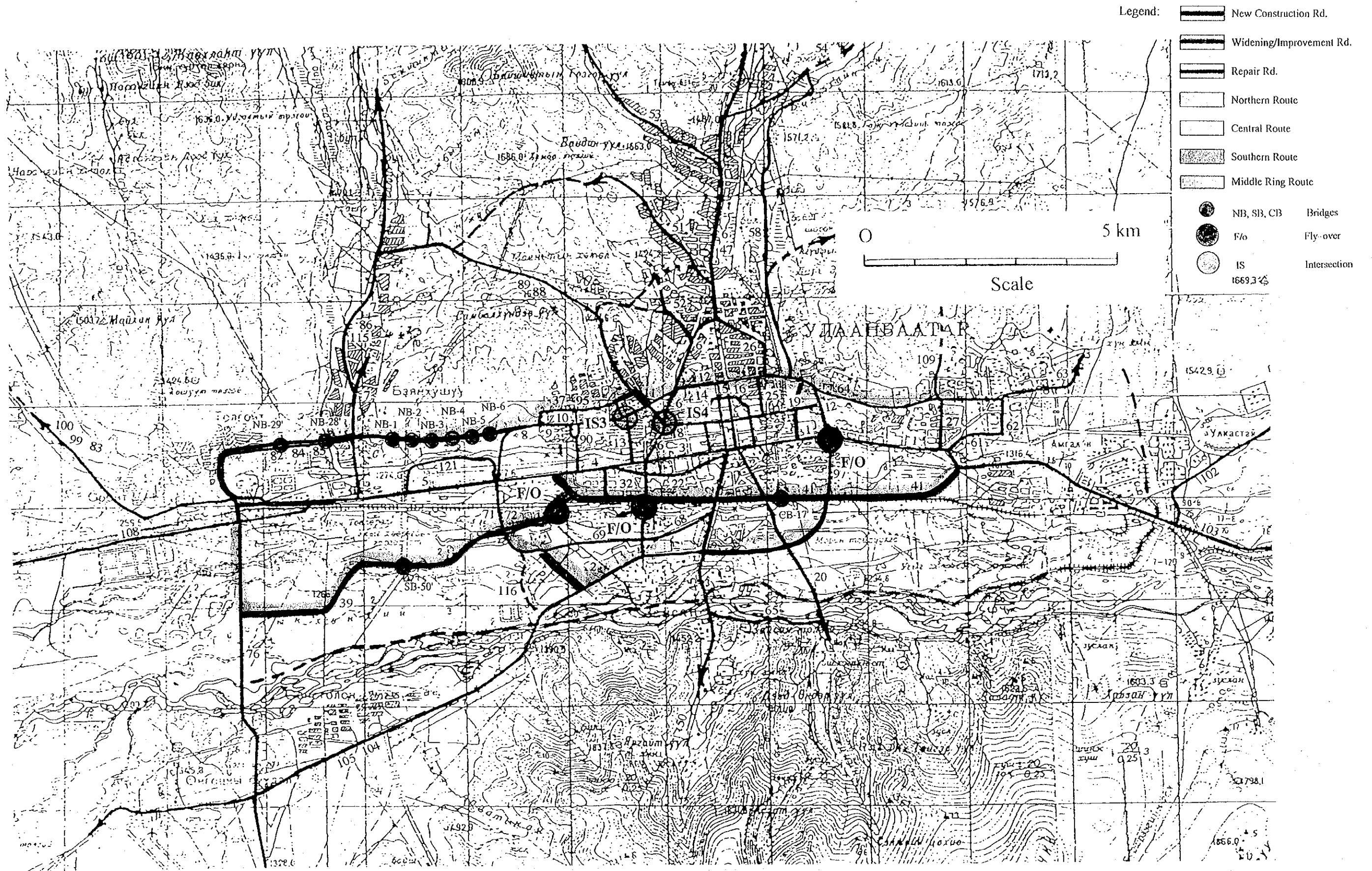
DRAWINGS FOR F/S PROJECTS  
(ROADS, INTERSECTIONS AND BRIDGES)

March 1999

PACIFIC CONSULTANTS INTERNATIONAL  
YACHIYO ENGINEERING CO., LTD



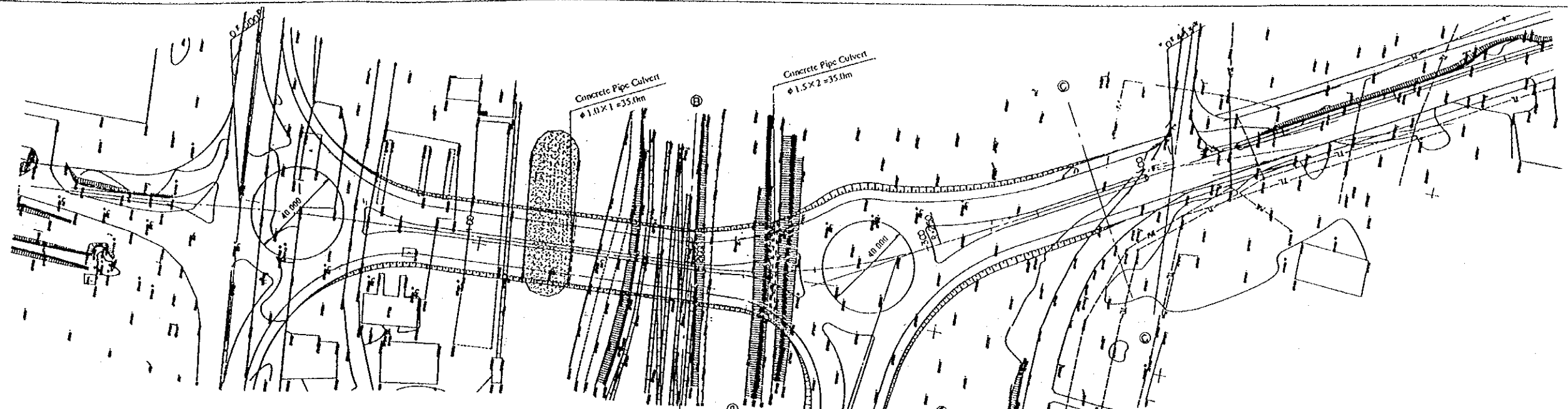
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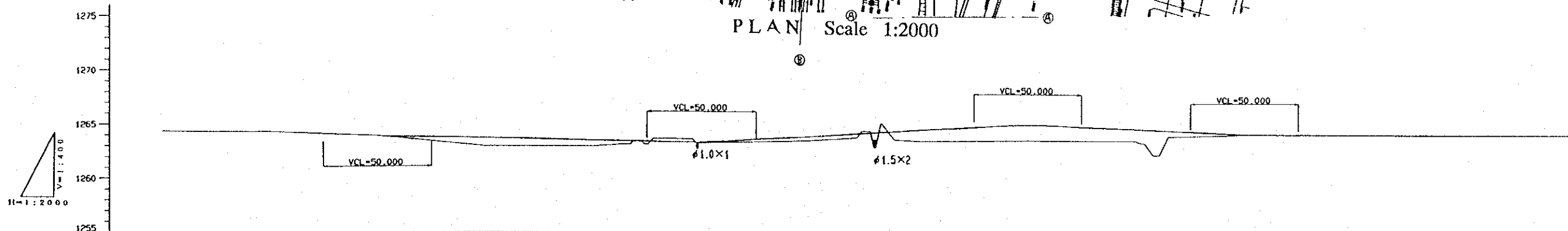
LOCATION MAP FOR F/S PROJECTS

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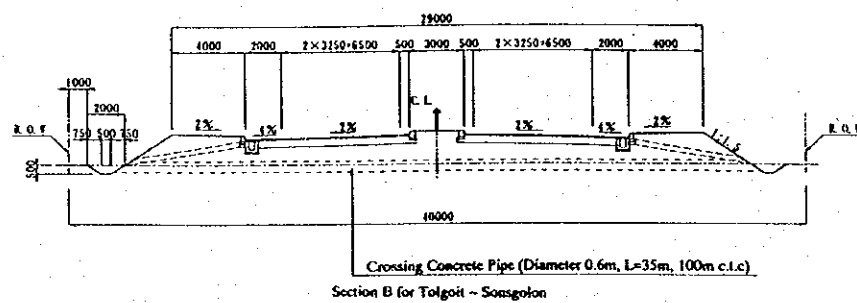


PLAN Scale 1:2000



STATION NO.	ACC. DISTANCE	GROUND HEIGHT	PROPOSED HEIGHT	GRADIENT	LEVEL
-100	100.000	1264.4			
-075	75.000				
-050	50.000	1264.4	1264.000		
-025	25.000				
0K 000	0.000	1264.0	1263.971		1264.000
025	25.000				
0K 050	50.000	1263.0	1263.757		
075	75.000				
0K 100	100.000	1263.0	1263.533		
125	125.000				
0K 150	150.000	1263.3	1263.413		1263.300
175	175.000				
0K 200	200.000	1263.5	1263.957		
225	225.000				
0K 250	250.000	1263.5	1264.533		
275	275.000				
0K 300	300.000	1263.7	1265.154		1265.300
325	325.000				
0K 350	350.000	1263.7	1264.800		
375	375.000				
0K 400	400.000	1264.3	1264.363		1264.300
425	425.000				
0K 450	450.000	1264.3	1264.300		
475	475.000				
0K 500	500.000	1264.2	1264.300		1264.300
525	525.000				
0K 550	550.000	1264.3	1264.300		

PROFILE Scale V=1:400



TYPICAL CROSS SECTION Scale 1:400

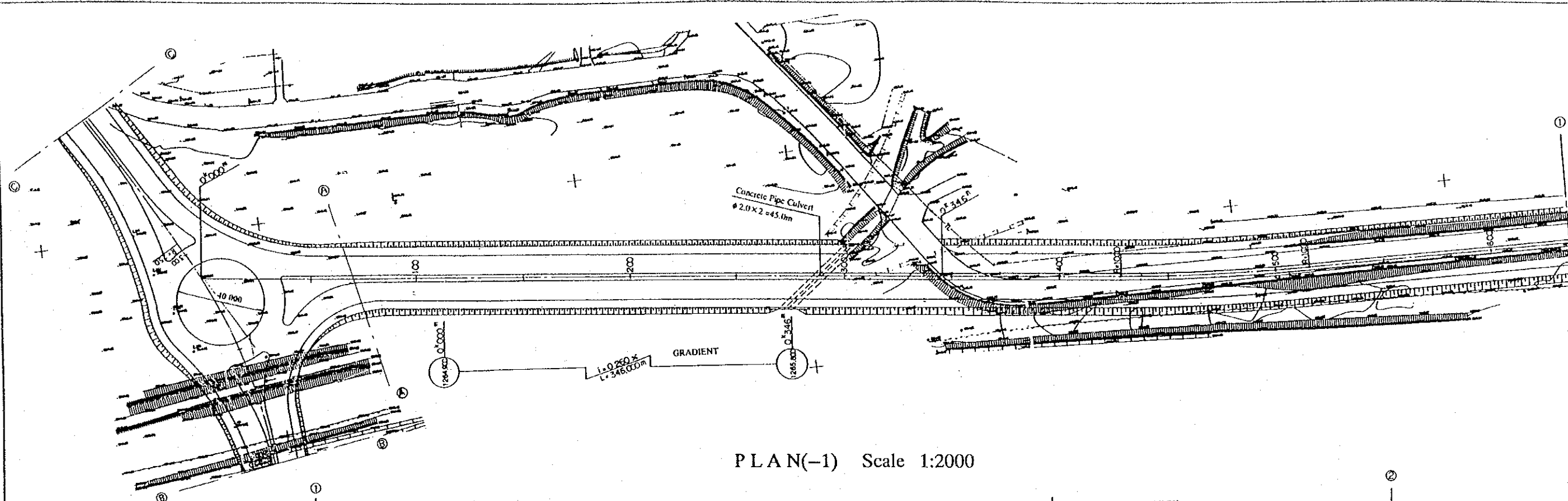


LOCATION MAP Scale 1:200000

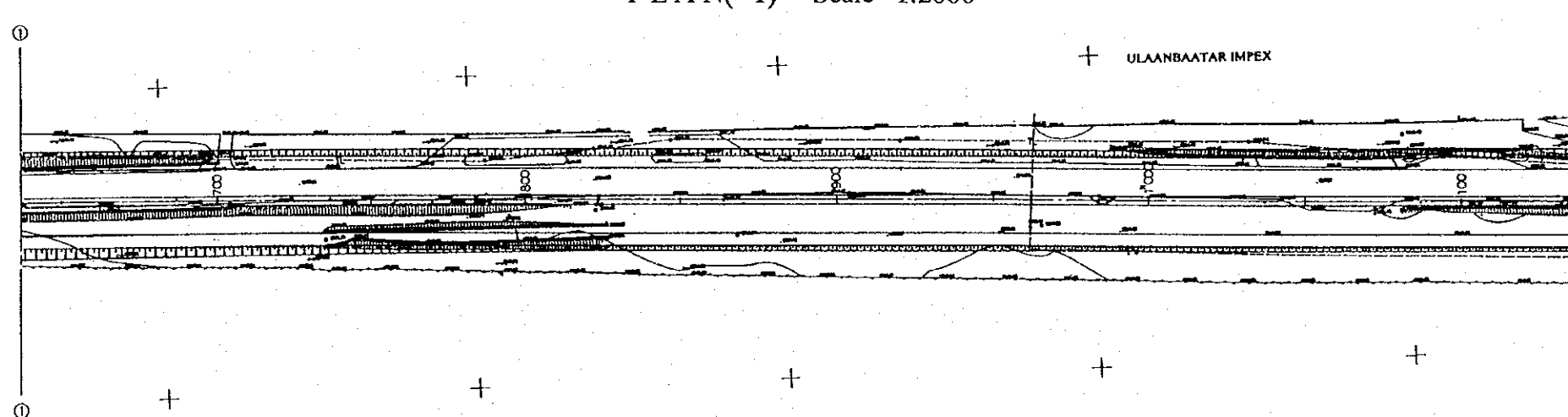
NEW CONSTRUCTION FOR TOLGOIT ~ SONGOLON Scale 1:2000

THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA		
PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING CO., LTD.	ULANBAATAR CITY GOVERNMENT		
DRAWING NEW CONSTRUCTION FOR TOLGOIT ~ SONGOLON	SCALE 1:400	1:2000	NO. 1

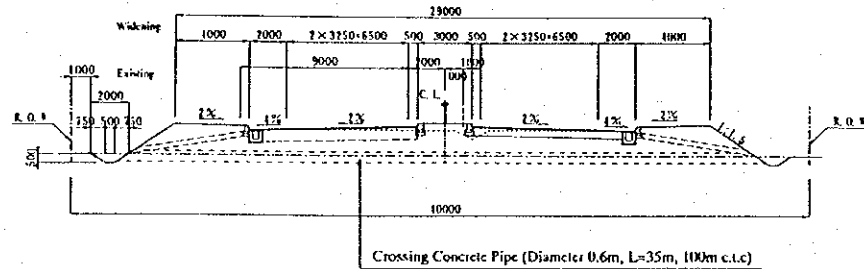




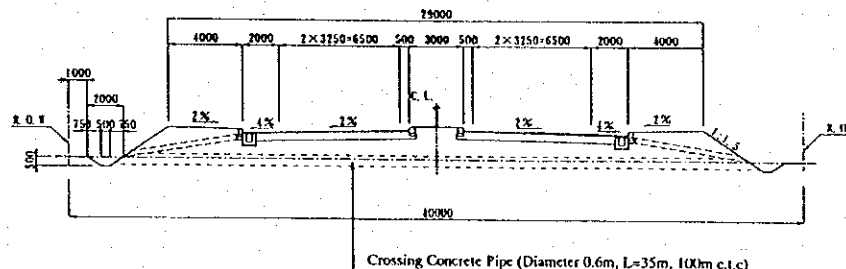
PLAN(-1) Scale 1:2000



PLAN(-2) Scale 1:2000



Section Type F for South Tolgoit



Section B for South Tolgoit (west)  
(Note: West part of 0.346km length is new construction)

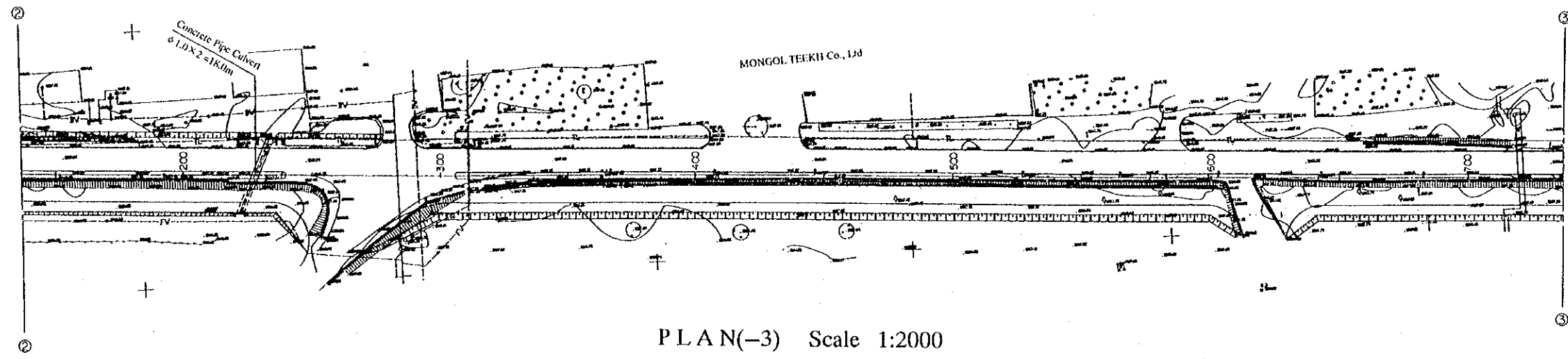
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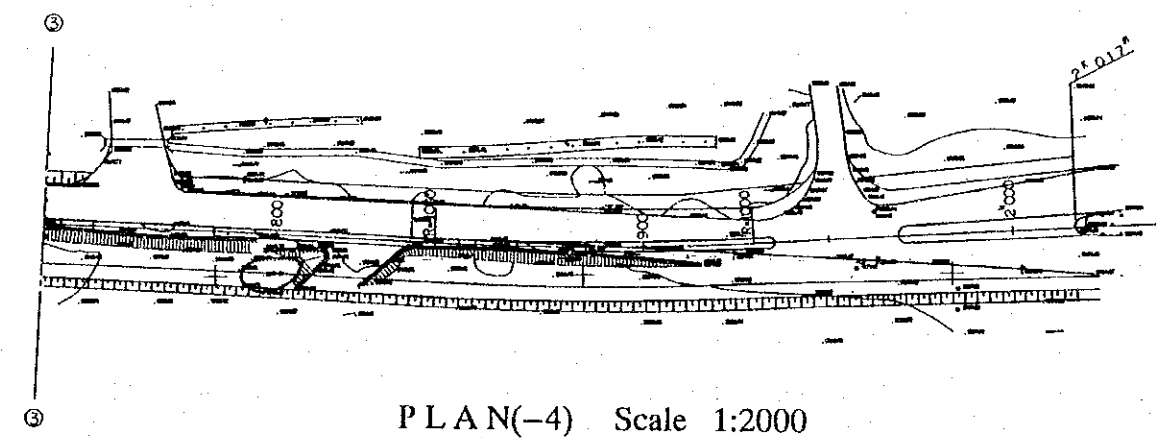
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IMPROVEMENT/WIDENING FOR SOUTH TOLGOIT (1) Scale 1:2000

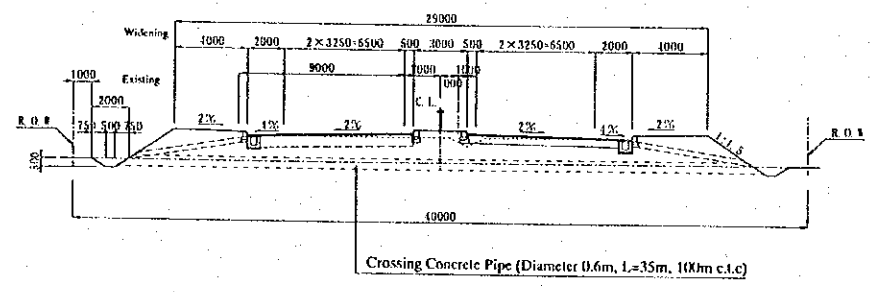
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
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			NO. 2



PLAN(-3) Scale 1:2000

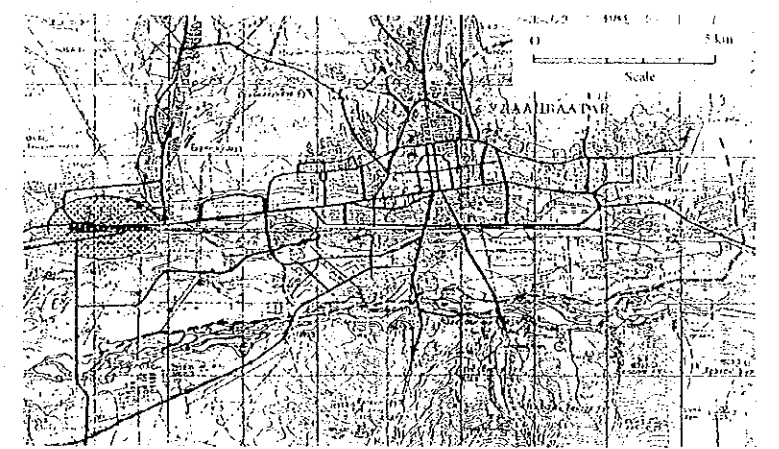


PLAN(-4) Scale 1:2000



Section Type F for South Tolgoi

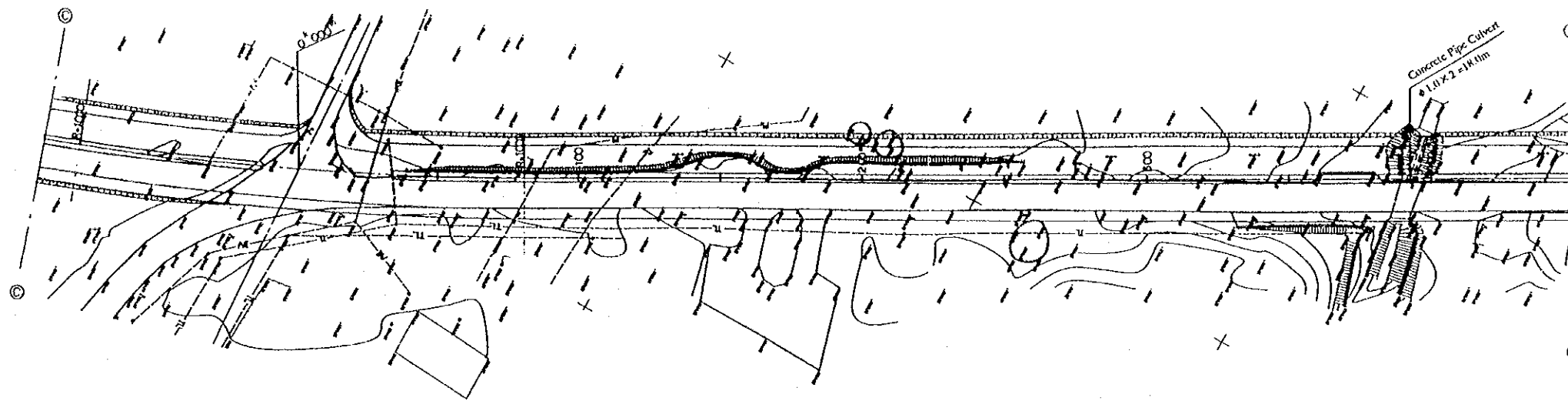
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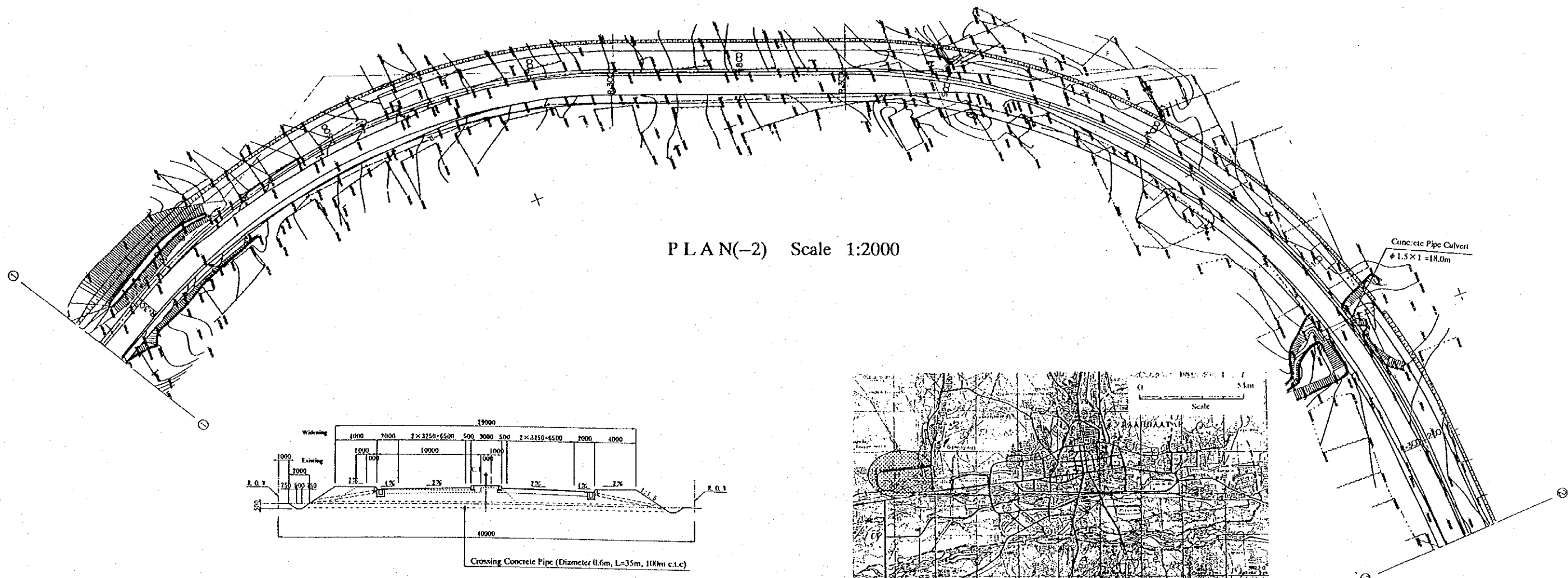
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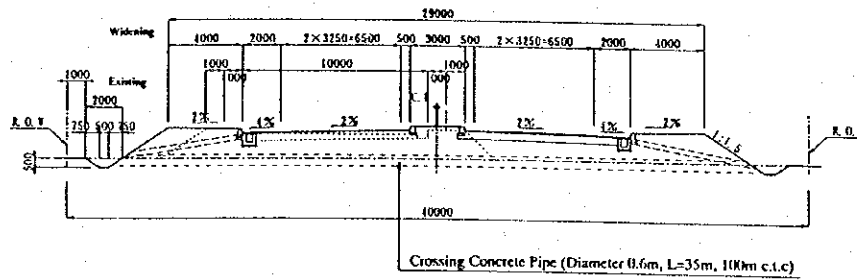
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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
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DRAWING	IMPROVEMENT/WIDENING FOR SOUTH TOLGOIT (2)	SCALE	1:400 1:2000 1:200000 NO 3



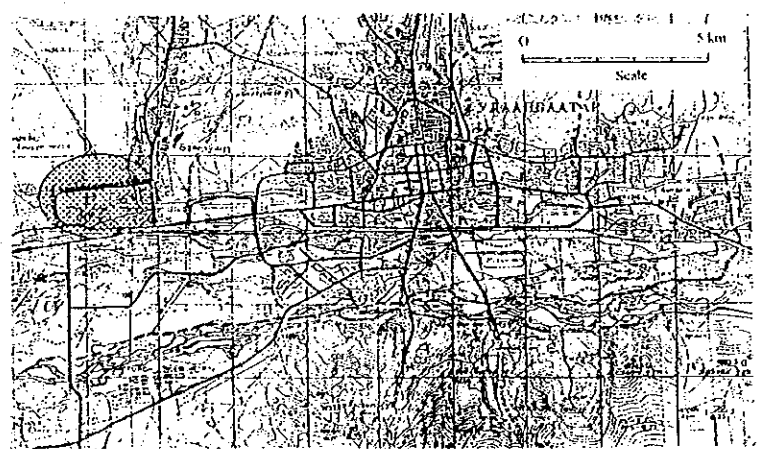
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PLAN(-2) Scale 1:2000



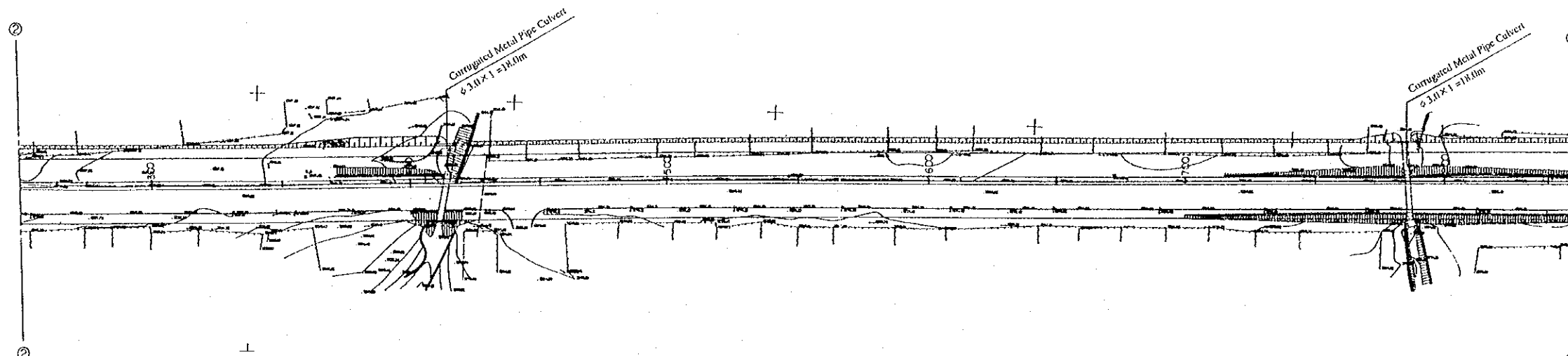
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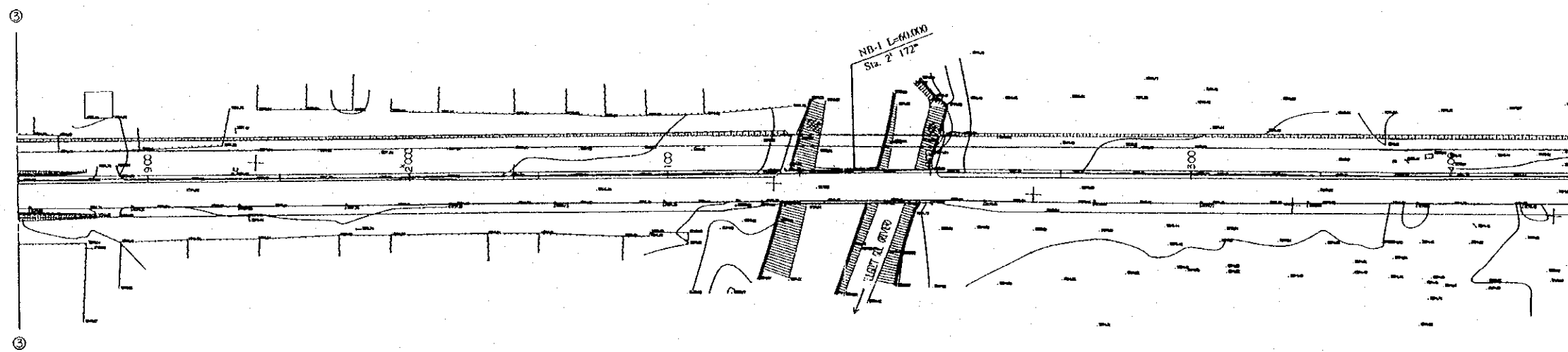
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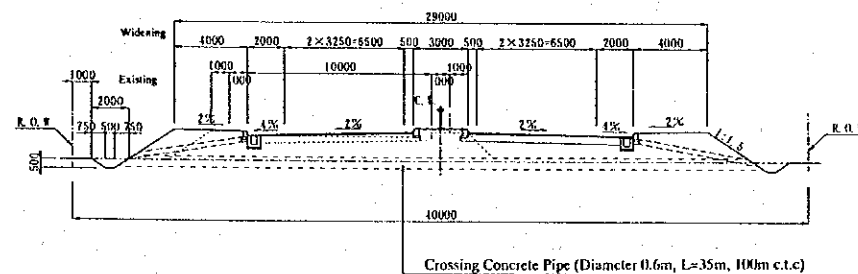
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING CO., LTD.		ULANBAATAR CITY GOVERNMENT	
DRAWING (IMPROVEMENT / WIDENING FOR NW TOLGOIT (1))	SCALE 1:400 1:2000 1:200000	NO.	4



PLAN(-3) Scale 1:2000



PLAN(-4) Scale 1:2000



Section Type F for NW Tolgoit

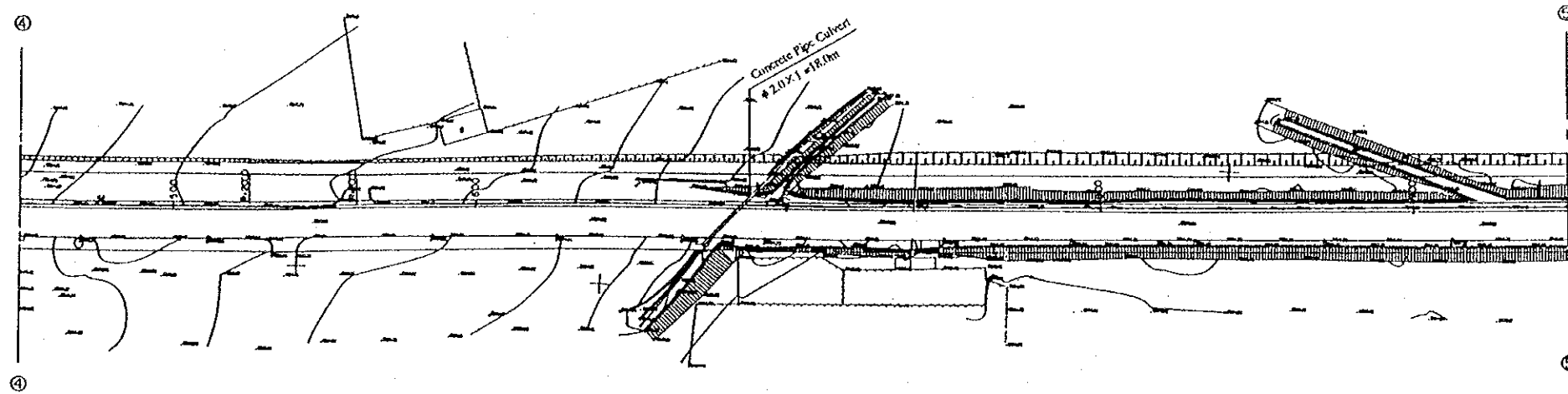
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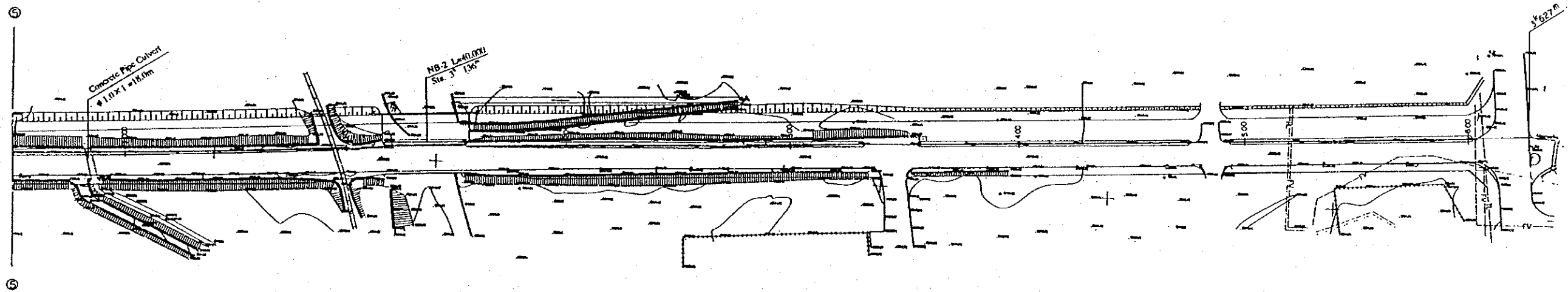
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IMPROVEMENT/WIDENING FOR NW TOLGOIT (2) Scale 1:2000

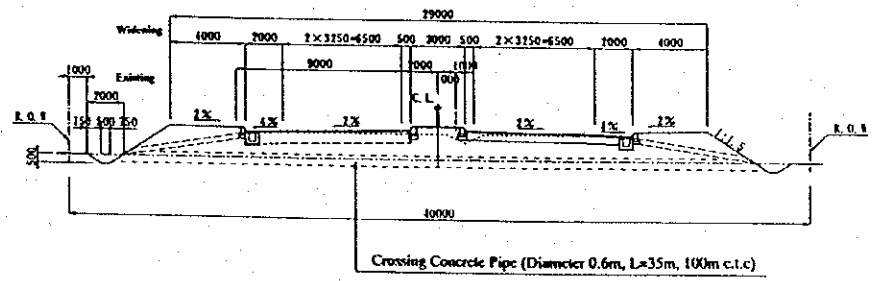
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
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DRAWING (IMPROVEMENT/WIDENING FOR NW TOLGOIT (2))	SCALE	1:400 1:2000 1:200000	NO. 5



PLAN(-5) Scale 1:2000



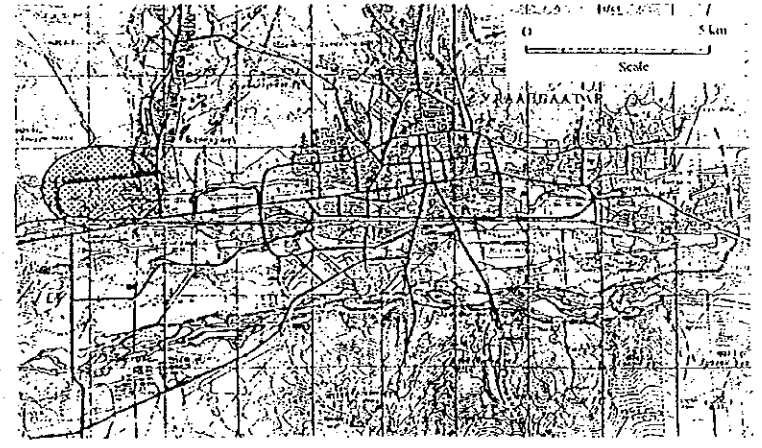
PLAN(-6) Scale 1:2000



Section Type F for NW Tolgoit

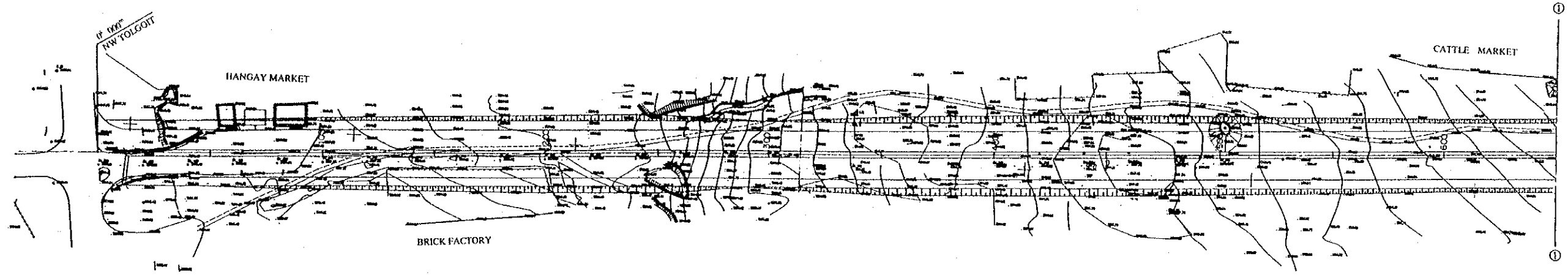
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IMPROVEMENT/WIDENING FOR NW TOLGOIT (3) Scale 1:2000

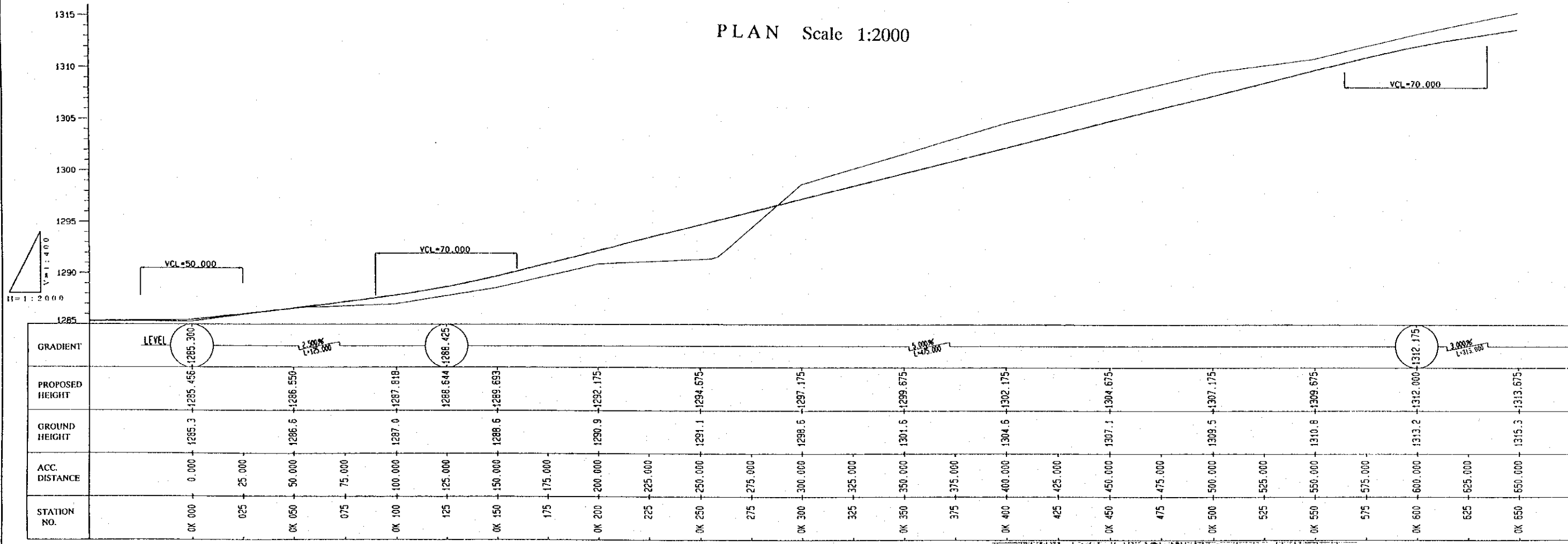


LOCATION MAP Scale 1:200000

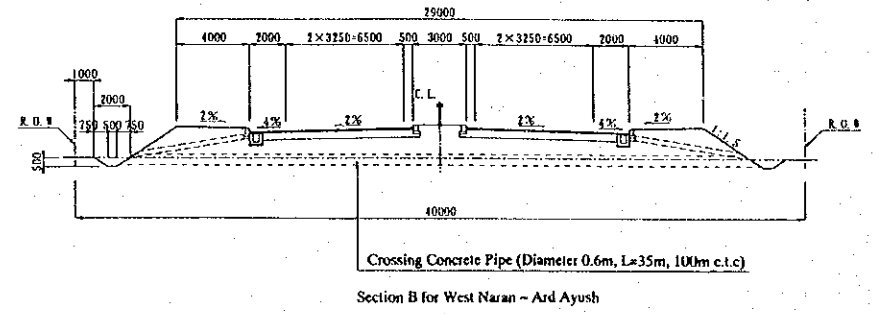
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
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URANWU IMPROVEMENT / WIDENING FOR NW TOLGOIT (3)	SCALE	1:400 1:2000 1:200000	NO. 6



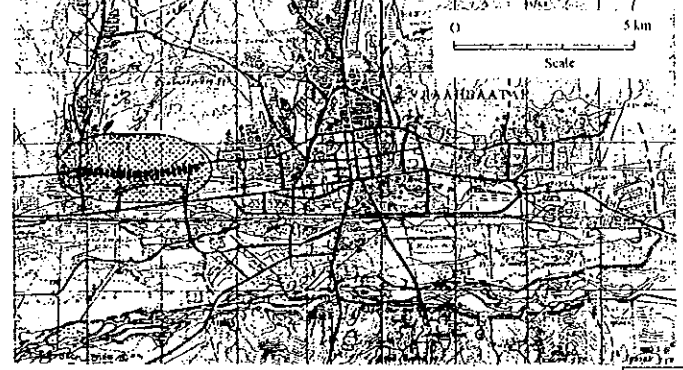
PLAN Scale 1:2000



PROFILE Scale V=1:400 H=1:2000



TYPICAL CROSS SECTION Scale 1:400

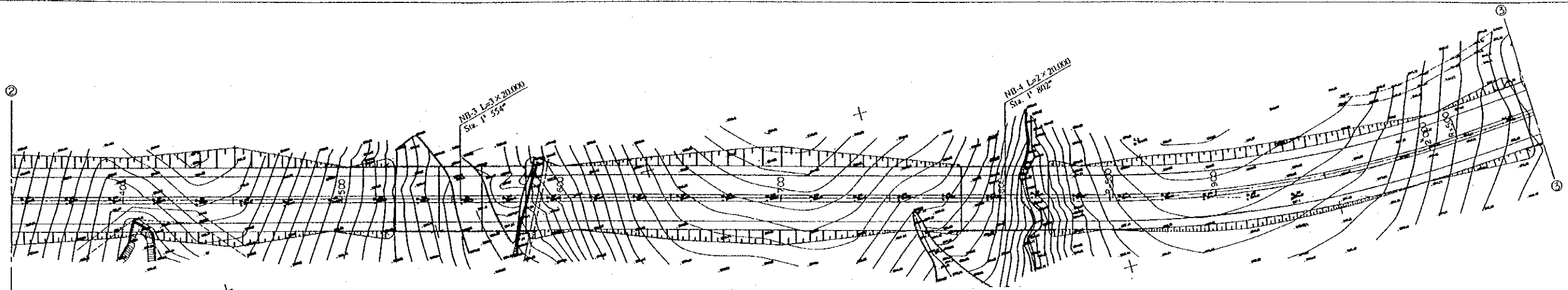


LOCATION MAP Scale 1:200000

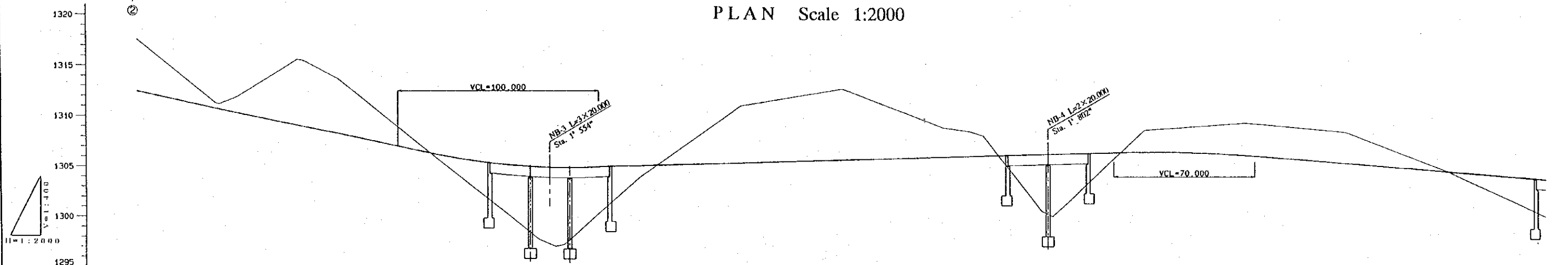
NEW CONSTRUCTION FOR WEST NARAN ~ ARD AYUSH (1) Scale 1:2000

THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA		
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DRAWING NO.	SCALE	1:400 1:2000 1:200000	NO. 7





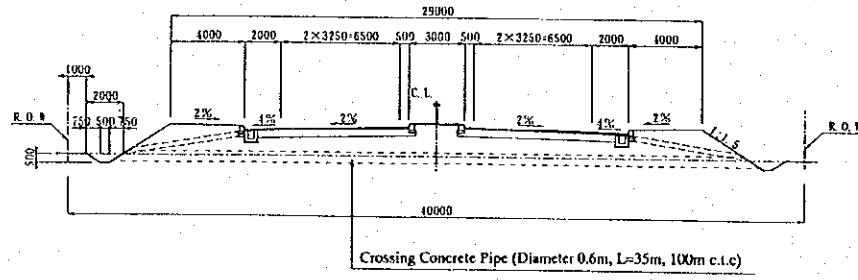
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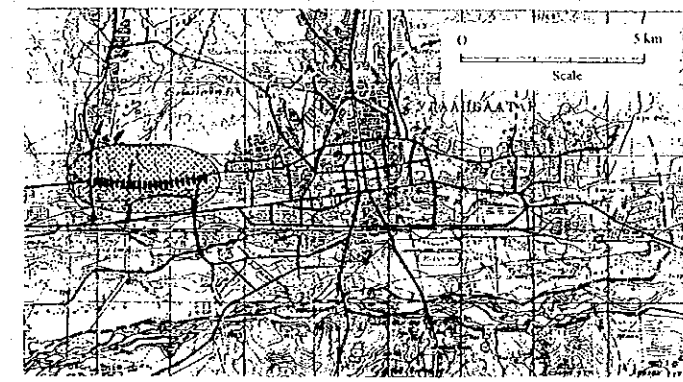
H=1:2000

PROFILE Scale V=1:400

STATION NO.	ACC. DISTANCE	GROUND HEIGHT	PROPOSED HEIGHT	GRADIENT
1K 350	+1350.000	1317.6	+1312.435	
375	+1375.000			
1K 400	+1400.000	1311.9	+1310.270	
425	+1425.000			
1K 450	+1450.000	1313.7	+1308.070	
475	+1475.000			
1K 500	+1500.000	1306.2	+1305.970	
525	+1525.000			
530	+1530.000			
1K 550	+1550.000	1297.7	+1304.885	
575	+1575.000			
1K 600	+1600.000	1303.8	+1304.970	
625	+1625.000			
1K 650	+1650.000	1310.9	+1305.270	
675	+1675.000			
1K 700	+1700.000	1312.5	+1305.570	
725	+1725.000			
1K 750	+1750.000	1308.8	+1305.870	
775	+1775.000			
1K 800	+1800.000	1300.5	+1306.170	
825	+1825.000			
1K 850	+1850.000	1308.5	+1306.435	
870	+1870.000			
875	+1875.000			
1K 900	+1900.000	1309.3	+1306.105	
925	+1925.000			
1K 950	+1950.000	1308.4	+1305.310	
975	+1975.000			
2K 000	+2000.000	1304.5	+1304.510	
025	+2025.000			
050	+2050.000	1300.0		



TYPICAL CROSS SECTION Scale 1:400

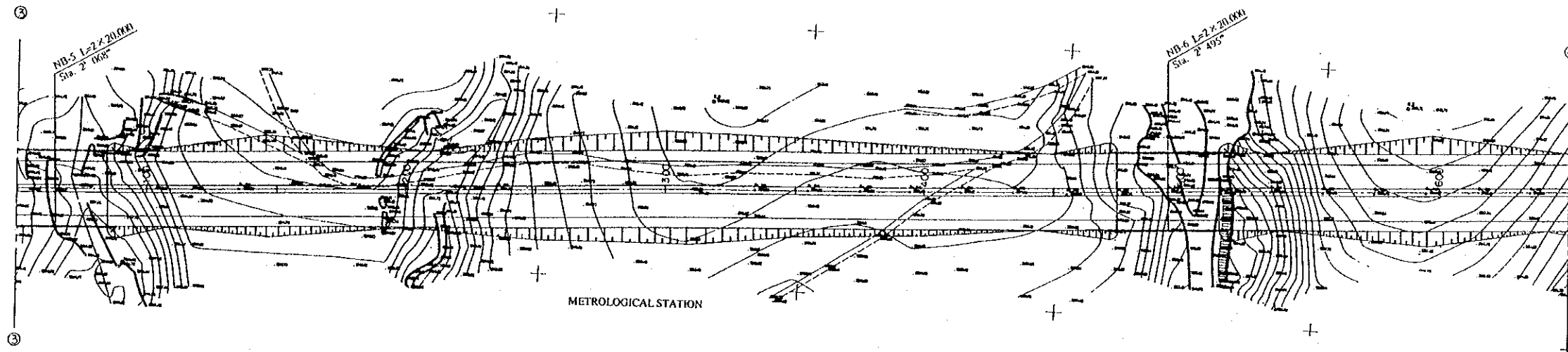


LOCATION MAP Scale 1:200000

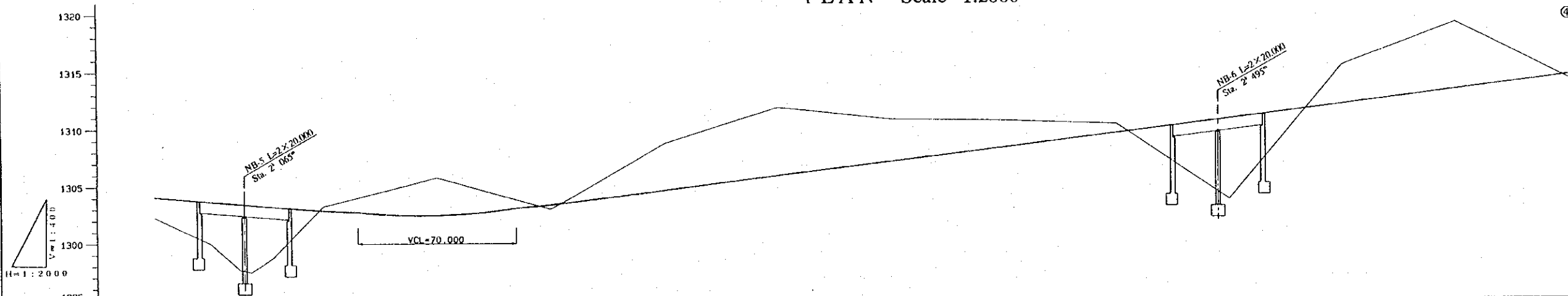
NEW CONSTRUCTION FOR WEST NARAN ~ ARD AYUSH (3) Scale 1:2000

THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL		YACHIYO ENGINEERING CO., LTD.	
YACHIYO ENGINEERING CO., LTD.		ULANBAATAR CITY GOVERNMENT	
DRAWING NO.	NEW CONSTRUCTION FOR WEST NARAN ~ ARD AYUSH (3)	SCALE	1:400 1:2000 1:200000



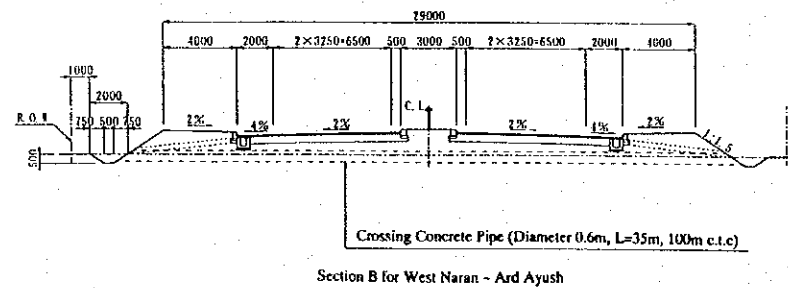


PLAN Scale 1:2000



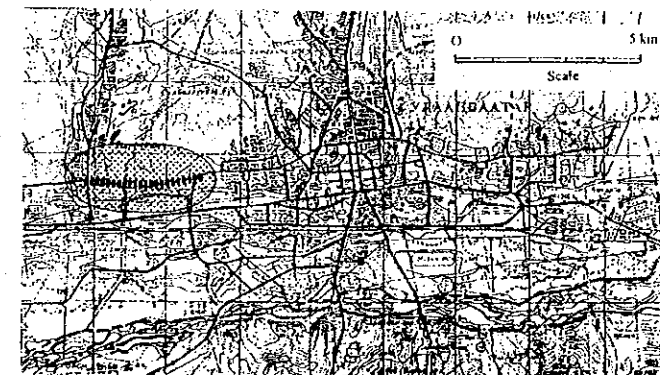
GRADIENT	1.600% L=200.000		-1.302.110		-2.300.000	
PROPOSED HEIGHT	1303.710	1302.910	1302.469	1303.360	1304.610	1308.860
GROUND HEIGHT	1300.0	1303.3	1305.8	1303.0	1308.7	1311.8
ACC. DISTANCE	2025.000	2075.000	2150.000	2225.000	2300.000	2375.000
STATION NO.	025	075	150	225	300	375

H=1:2000  
PROFILE Scale V=1:400



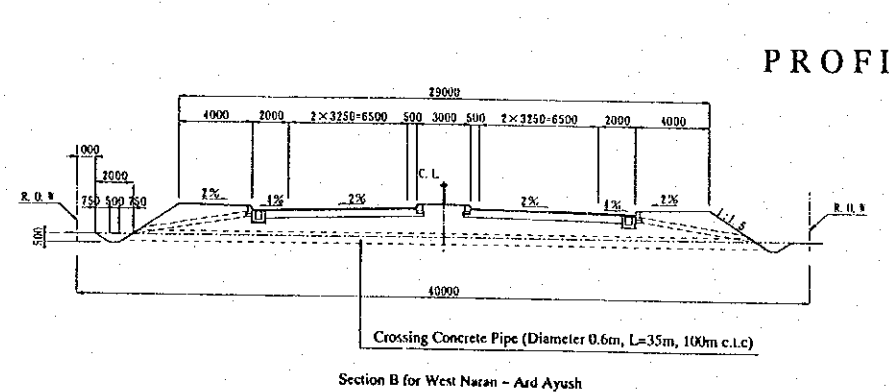
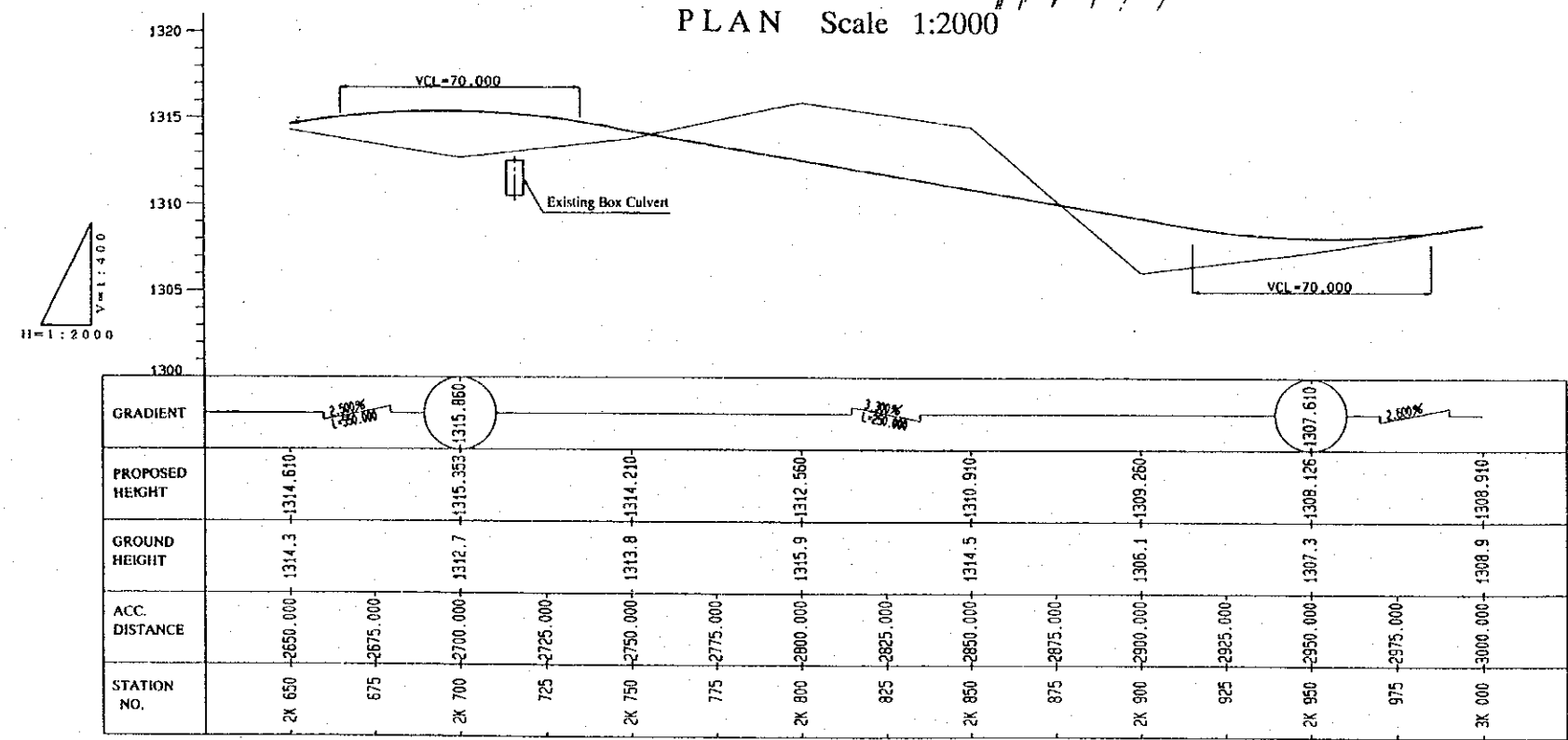
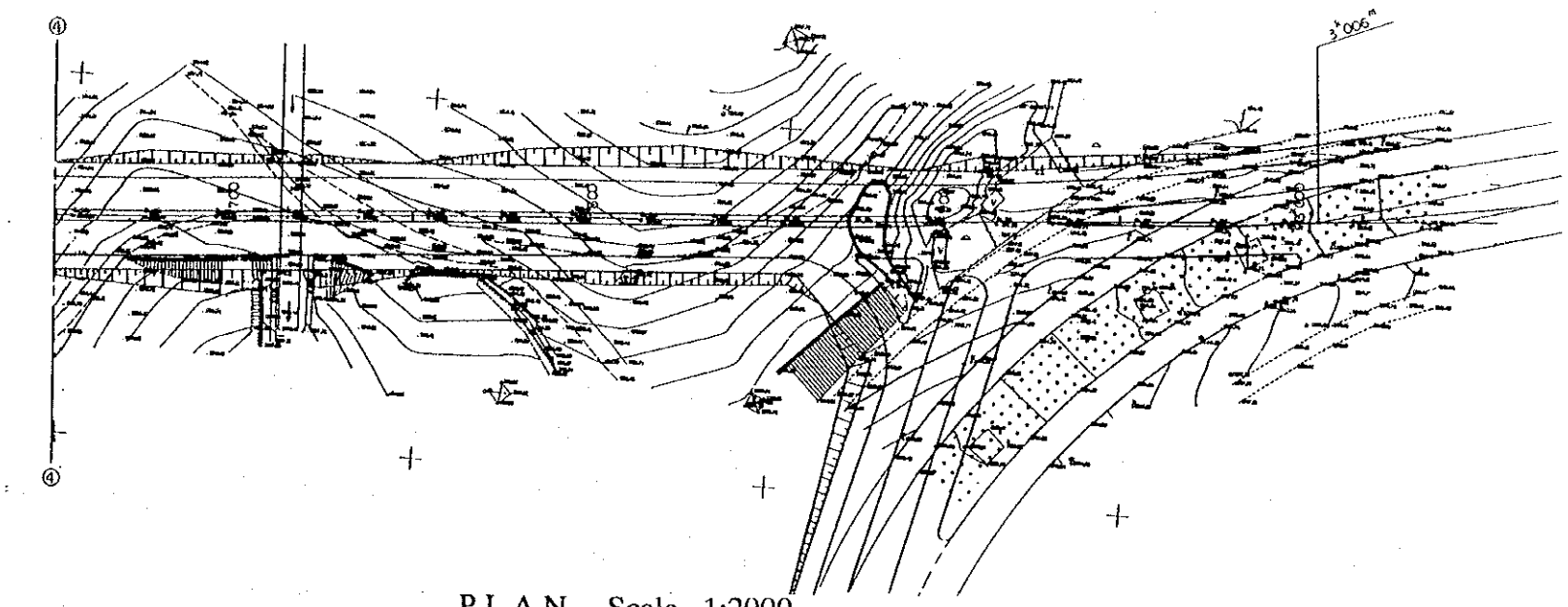
TYPICAL CROSS SECTION Scale 1:400

NEW CONSTRUCTION FOR WEST NARAN ~ ARD AYUSH (4) Scale 1:2000

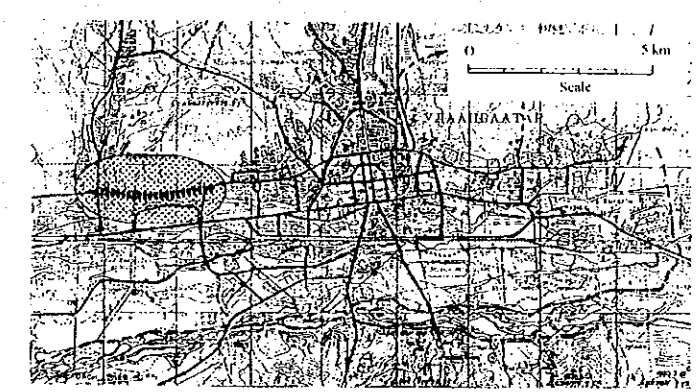


LOCATION MAP Scale 1:200000

THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
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DRAWING NO.	SCALE	1:400 1:2000 1:200000	NO. 10



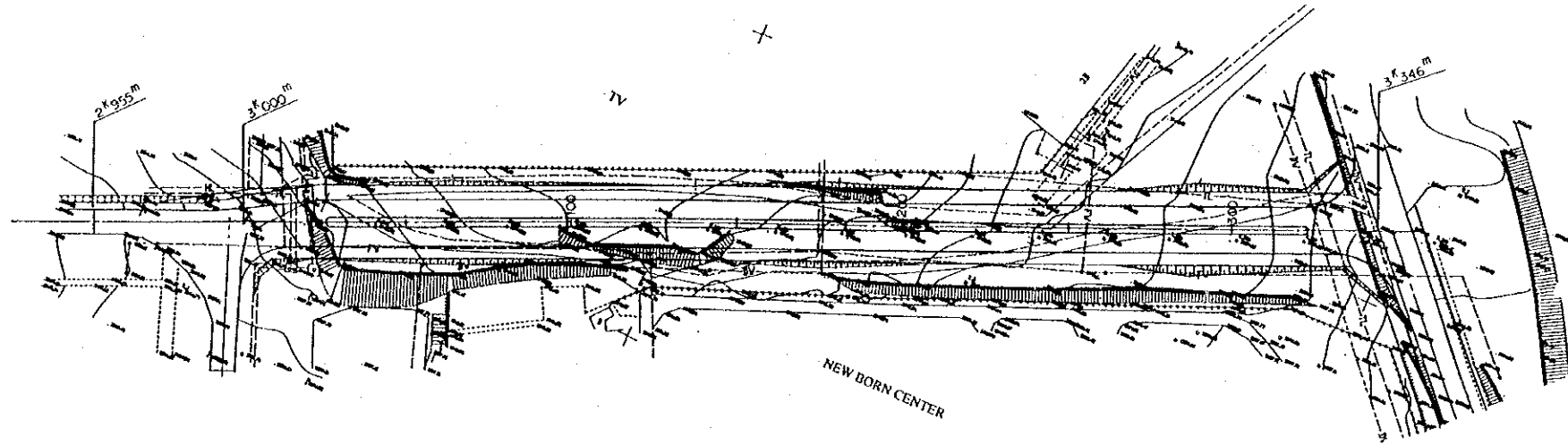
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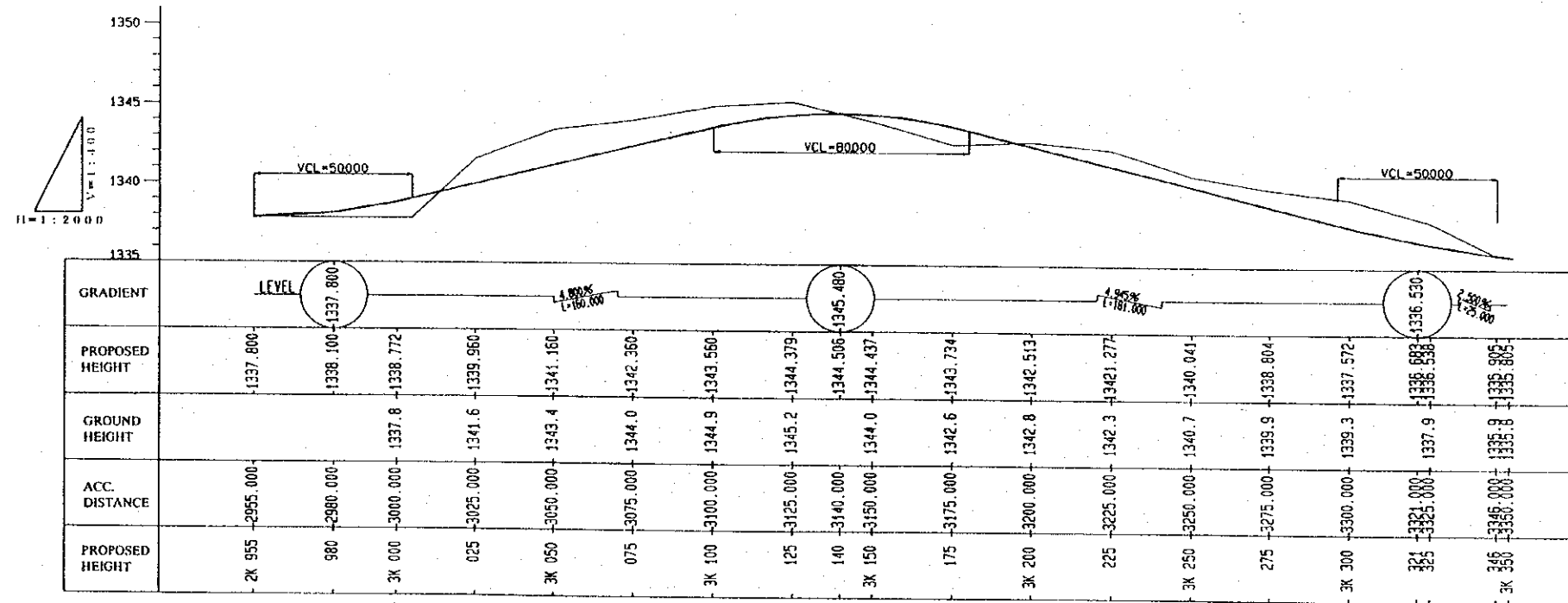
LOCATION MAP Scale 1:200000

NEW CONSTRUCTION FOR WEST NARAN ~ ARD AYUSH(5) Scale 1:2000

THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING CO., LTD.		ULANBAATAR CITY GOVERNMENT	
DRAWING NO.	SCALE	NO.	1:1
NEW CONSTRUCTION FOR WEST NARAN ~ ARD AYUSH(5)	1:400 1:2000 1:200000		

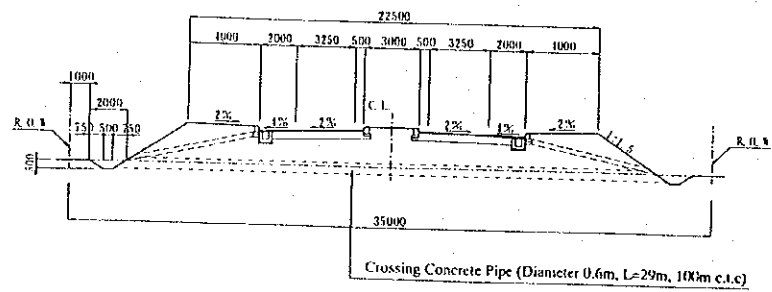


PLAN Scale 1:2000



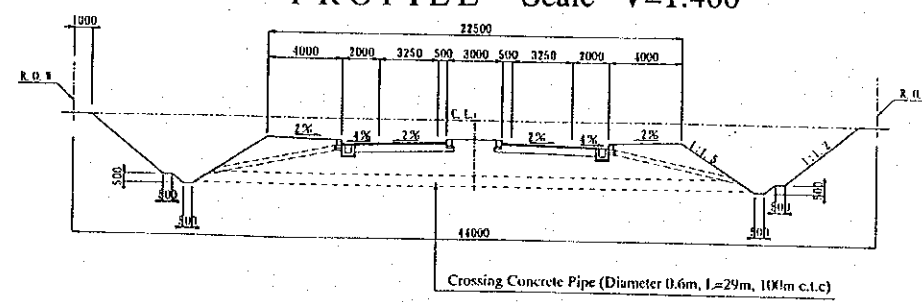
H=1:2000

PROFILE Scale V=1:400



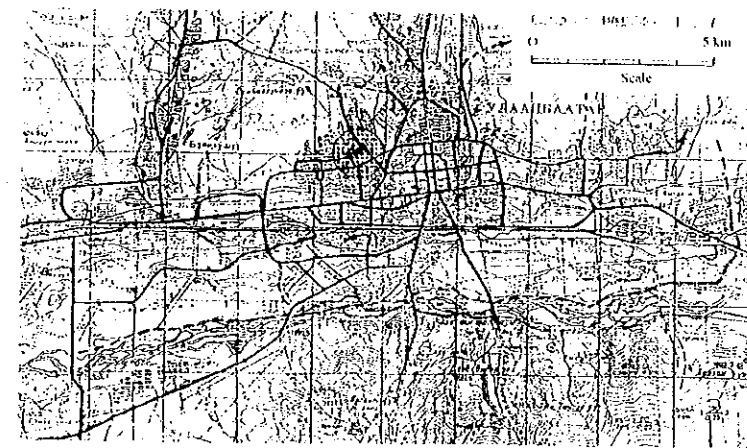
Section B' for South TV - N/Rd. NO.88 (Embankment)

TYPICAL CROSS SECTION Scale 1:400



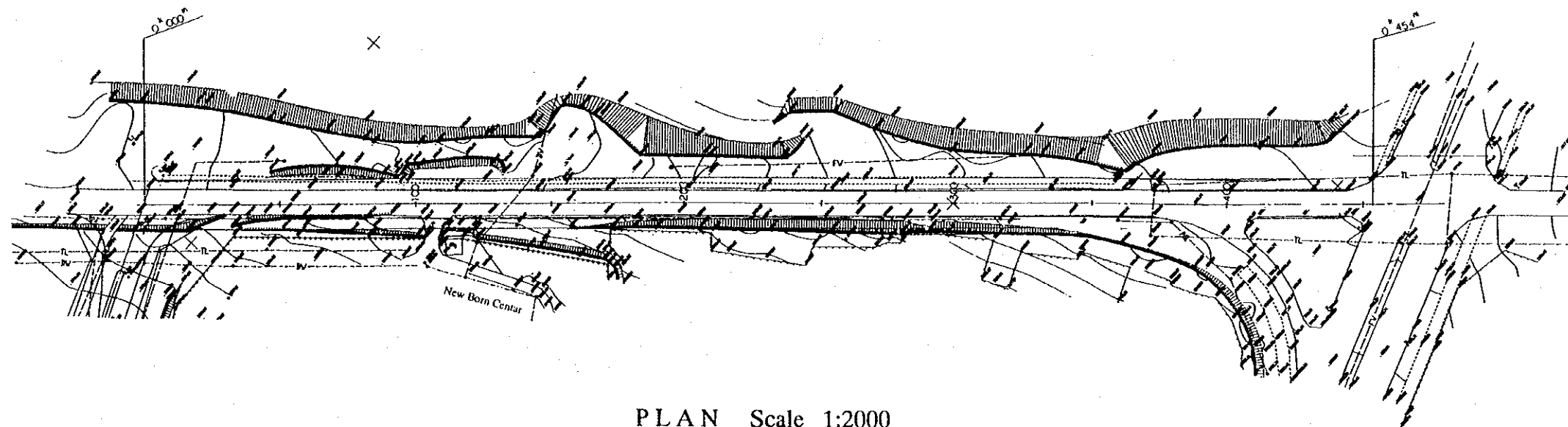
Section B' for South TV - N/Rd. NO.88 (Cut)

NEW CONSTRUCTION FOR SOUTH TV~N/RD. NO.88

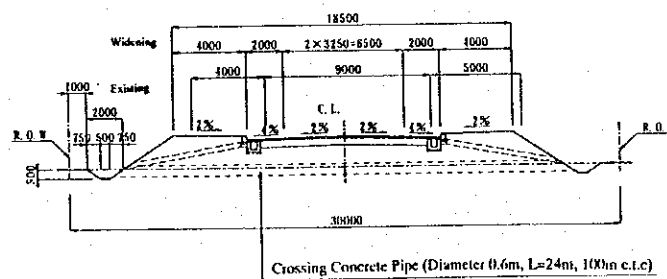


LOCATION MAP Scale 1:200000

THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL		YACHIYO ENGINEERING CO. LTD.	
DRAWING: NEW CONSTRUCTION FOR SOUTH TV - N.RD. NO. 88		SCALE: 1:400 1:2000 1:200000	NO. 2



PLAN Scale 1:2000



Section Type G for N/Rd.88 - IS11

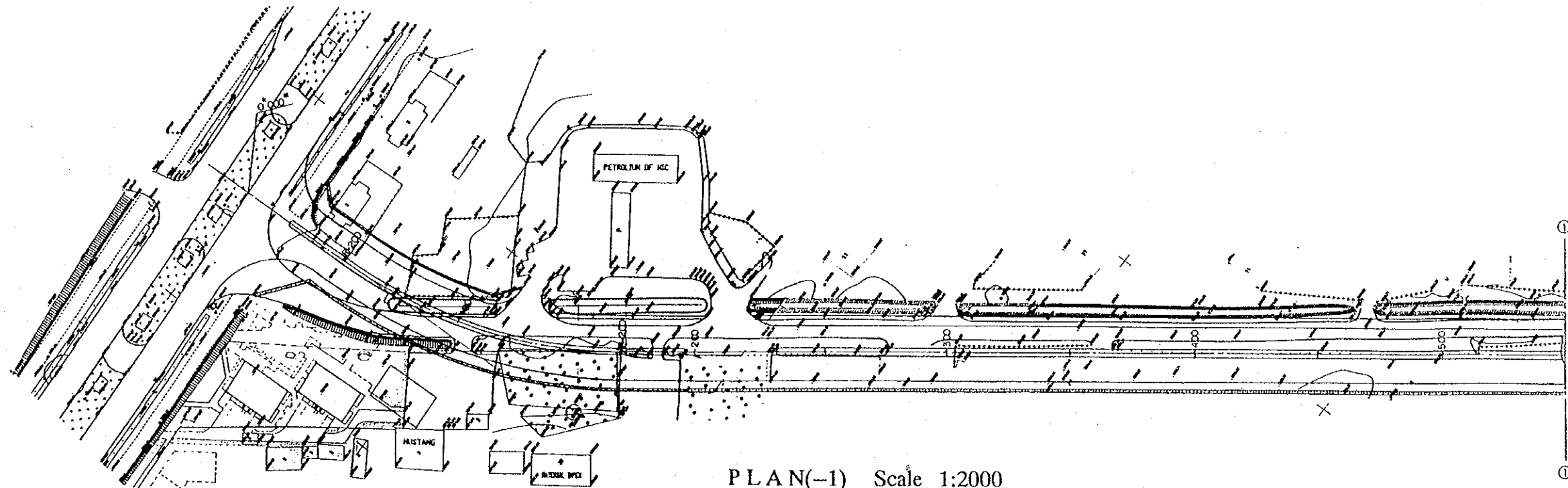
TYPICAL CROSS SECTION Scale 1:400



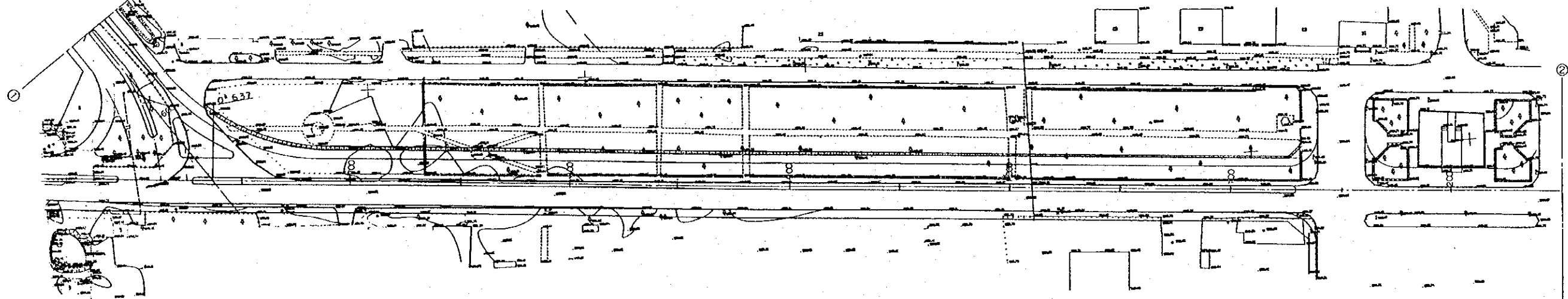
LOCATION MAP Scale 1:200000

IMPROVEMENT/WIDENING FOR N/RD. 88 ~ IS11 Scale 1:2000

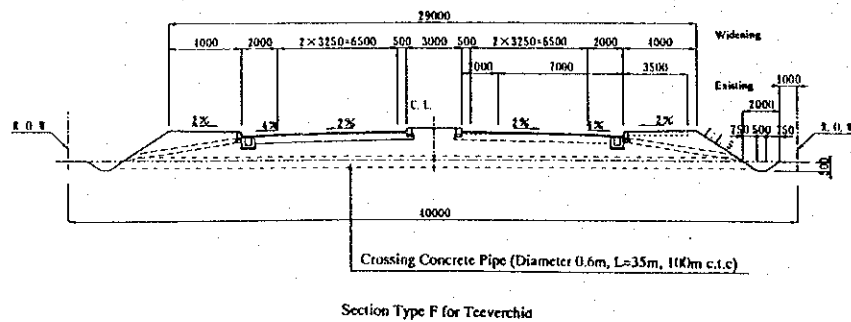
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING CO., LTD.		ULAANBAATAR CITY GOVERNMENT	
DRAWING	IMPROVEMENT/WIDENING FOR N/RD. 88 - IS11	SCALE	1:400 1:2000 NO. 17



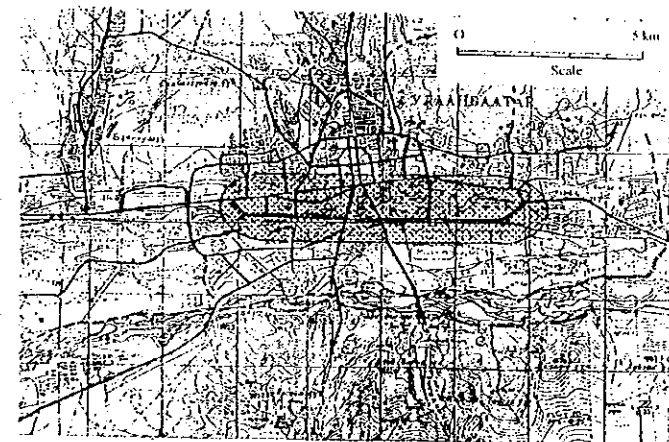
PLAN(-1) Scale 1:2000



PLAN(-2) Scale 1:2000



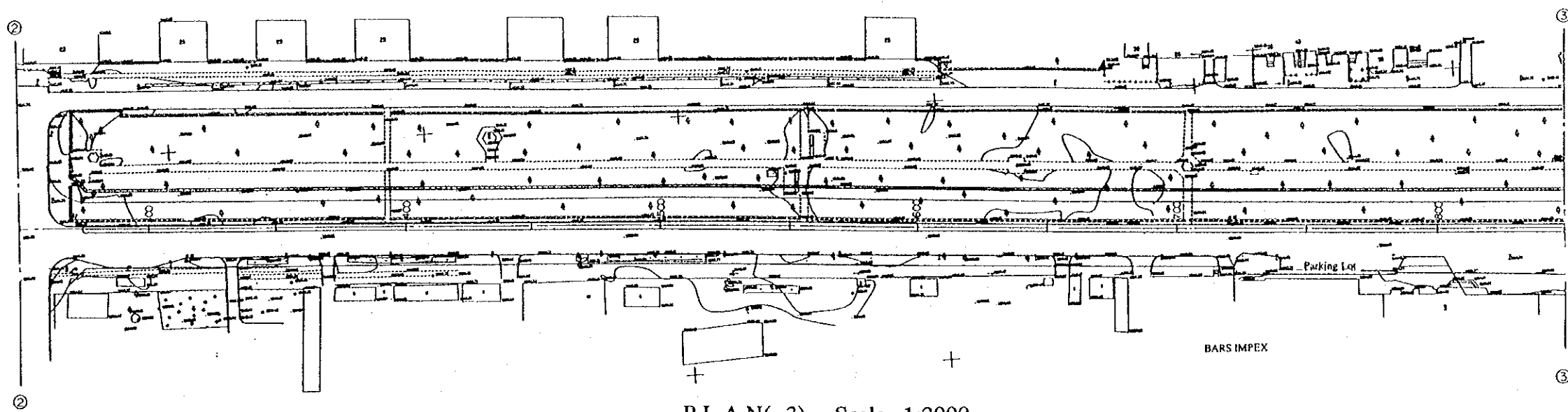
TYPICAL CROSS SECTION Scale 1:400



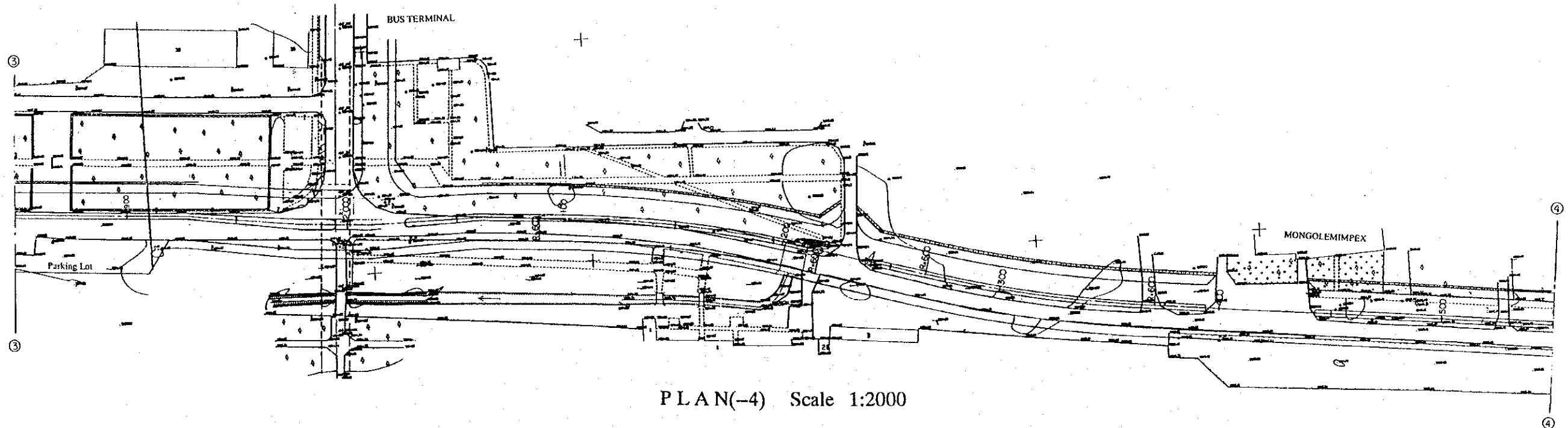
LOCATION MAP Scale 1:200000

NEW CONSTRUCTION FOR TEEVERCHID (1) Scale 1:2000

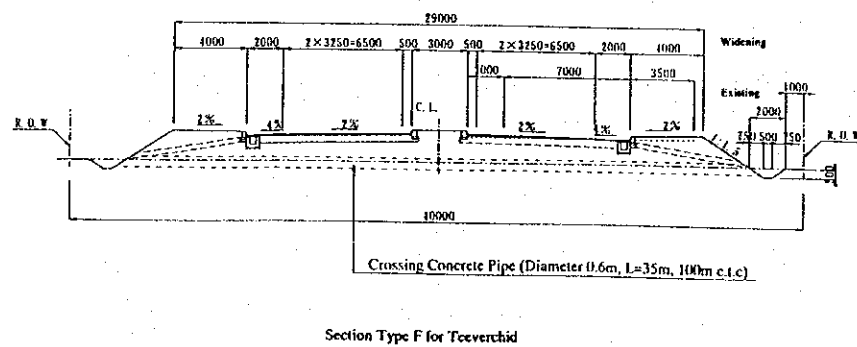
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL		YACHTO ENGINEERING CO. LTD.	
DRAWING: NEW CONSTRUCTION FOR TEEVERCHID (1)		SCALE: 1:400 1:2000 1:200000	NO. 1..



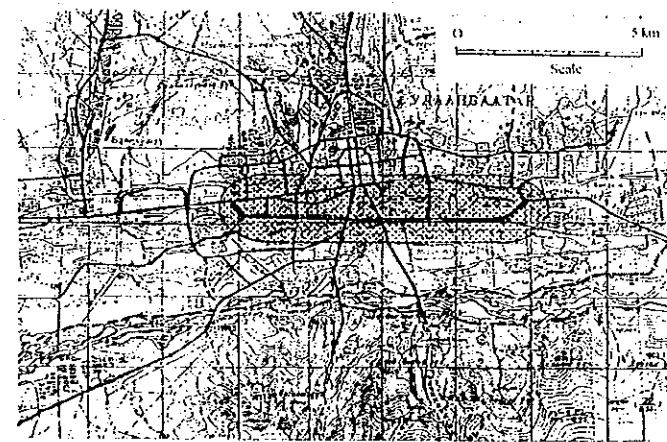
PLAN(-3) Scale 1:2000



PLAN(-4) Scale 1:2000



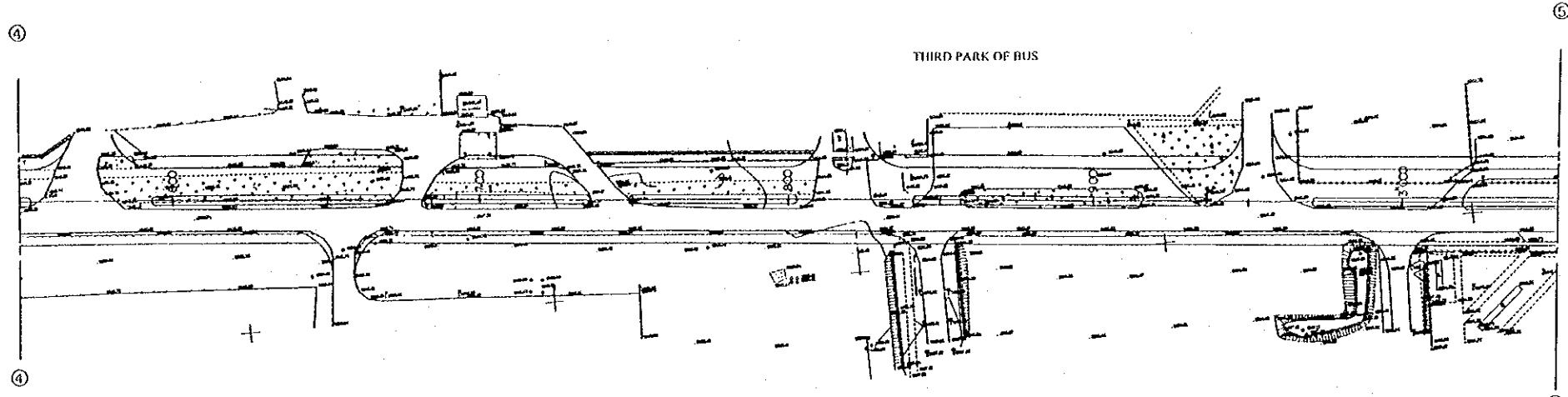
TYPICAL CROSS SECTION Scale 1:400



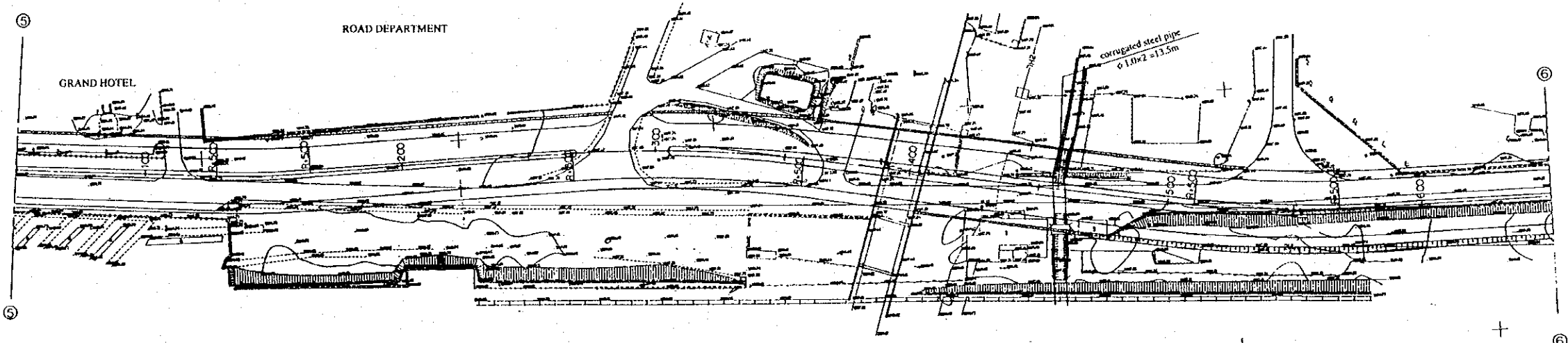
LOCATION MAP Scale 1:200000

NEW CONSTRUCTION FOR TEEVERCHID (2) Scale 1:2000

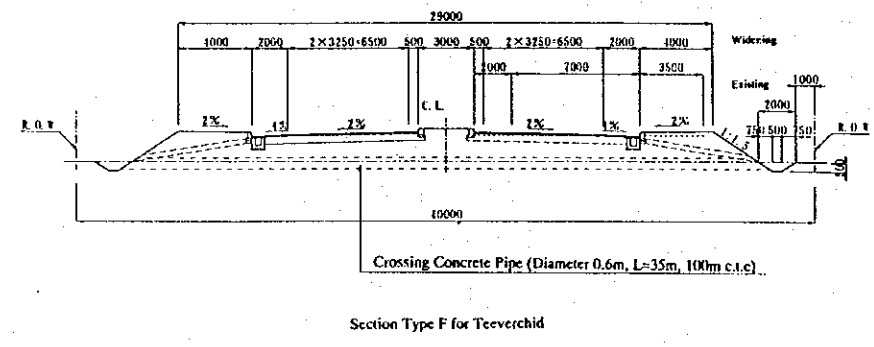
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING CO., LTD.		ULAANBAATAR CITY GOVERNMENT	
DRAWING NO.	NEW CONSTRUCTION FOR TEEVERCHID (2)	SCALE	1:400 1:2000 1:200000
			NO. 15



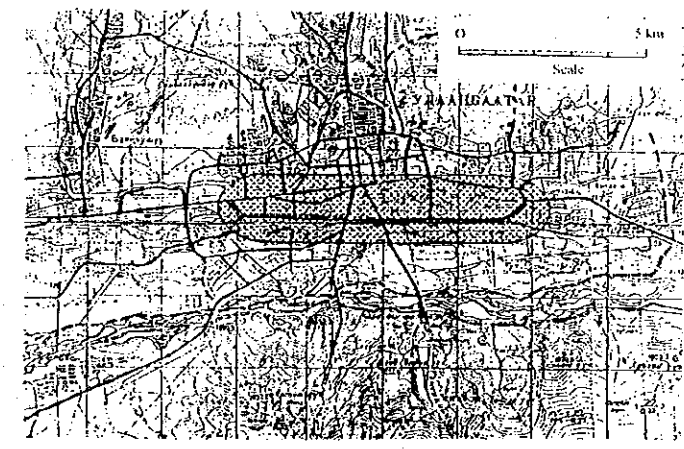
PLAN(-5) Scale 1:2000



PLAN(-6) Scale 1:2000



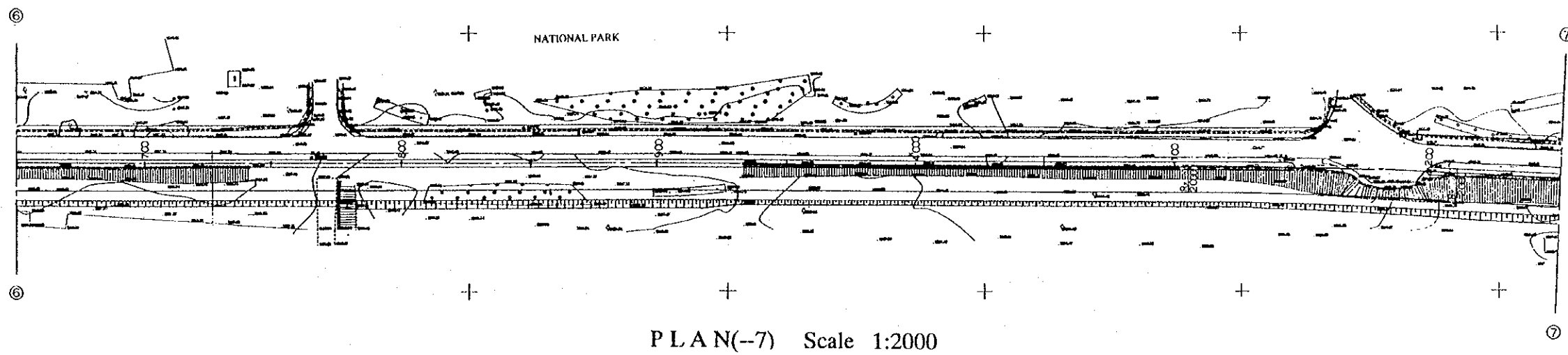
TYPICAL CROSS SECTION Scale 1:400



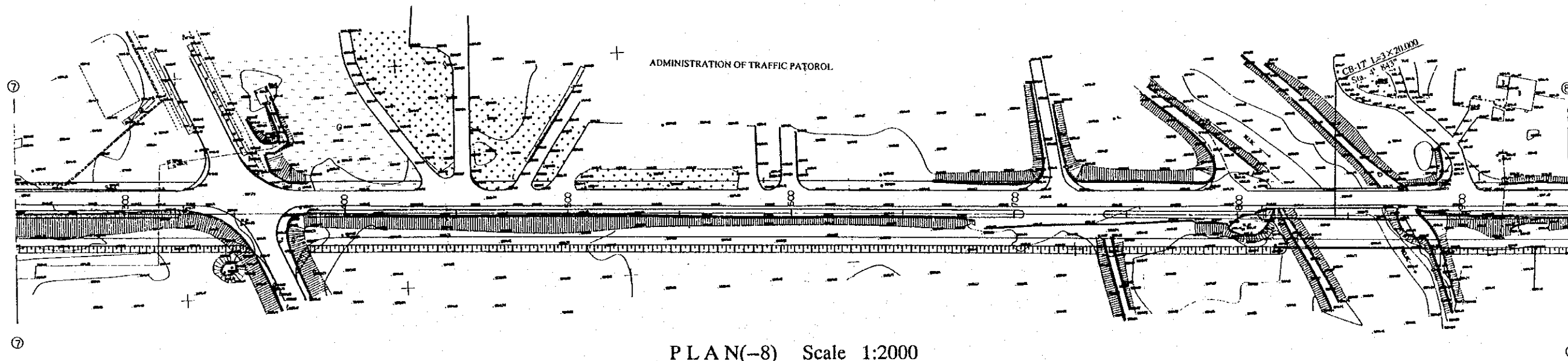
LOCATION MAP Scale 1:200000

NEW CONSTRUCTION FOR TEEVERCHID (3) Scale 1:2000

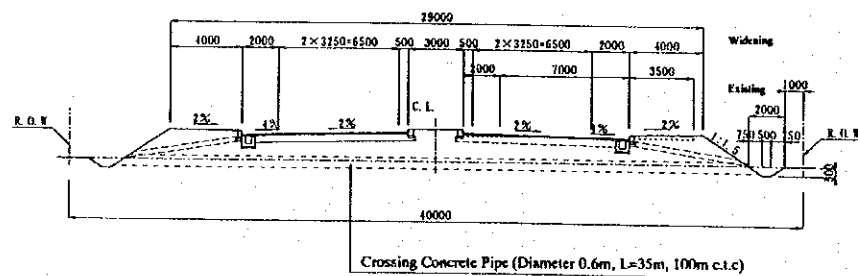
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING CO. LTD.		ULAANBAATAR CITY GOVERNMENT	
DRAWING NO.	NEW CONSTRUCTION FOR TEEVERCHID (3)	SCALE	1:400 1:2000 1:200000
			NO. 16



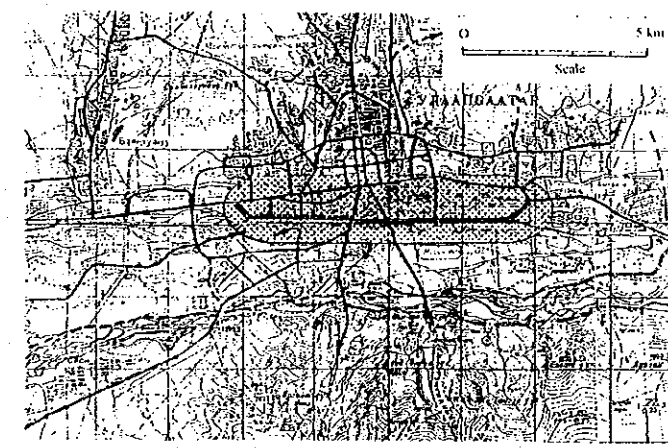
PLAN(-7) Scale 1:2000



PLAN(-8) Scale 1:2000



TYPICAL CROSS SECTION Scale 1:400

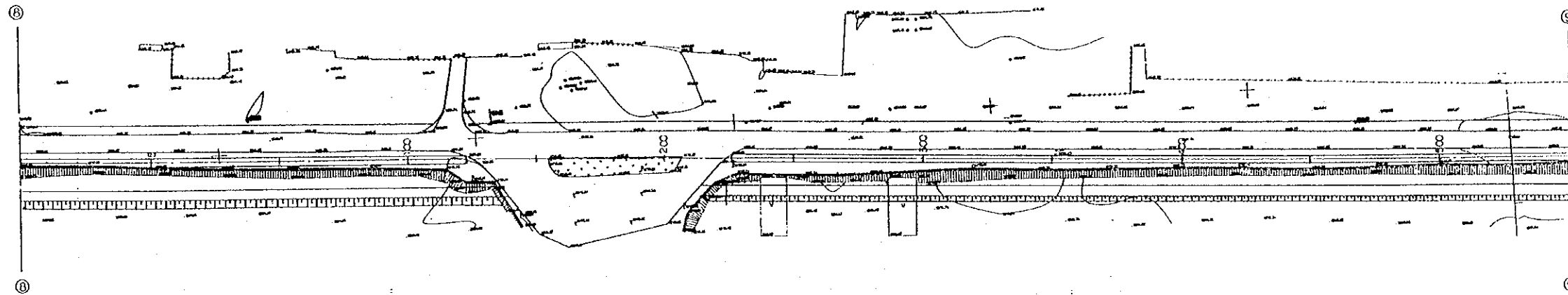


LOCATION MAP Scale 1:200000

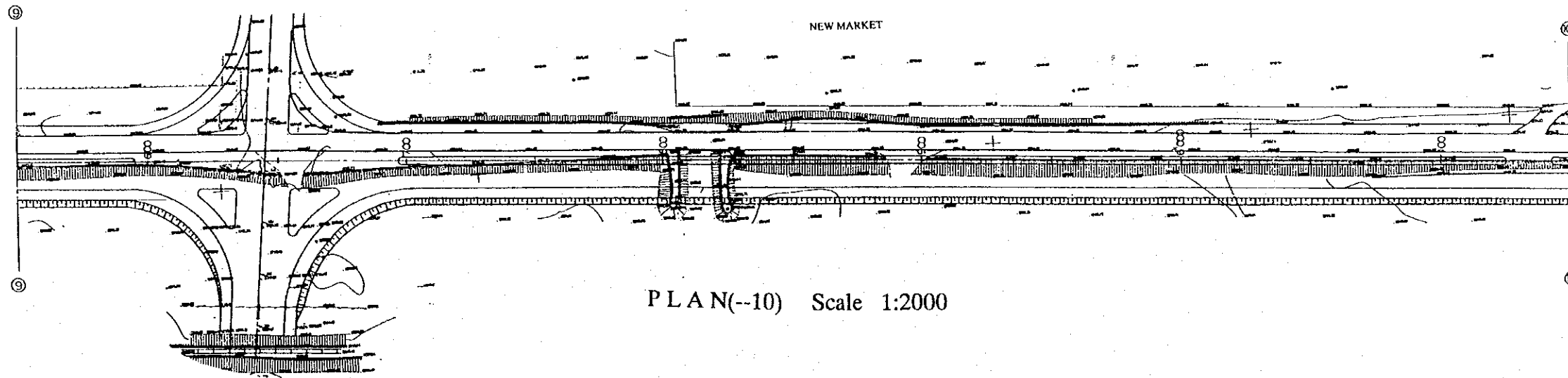
NEW CONSTRUCTION FOR TEEVERCHID (4) Scale 1:2000

THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL YACIHO ENGINEERING CO. LTD.		ULANBAATAR CITY GOVERNMENT	
DRAWING: NEW CONSTRUCTION FOR TEEVERCHID (4)	SCALE: 1:400 1:2000 1:200000	NO.	17

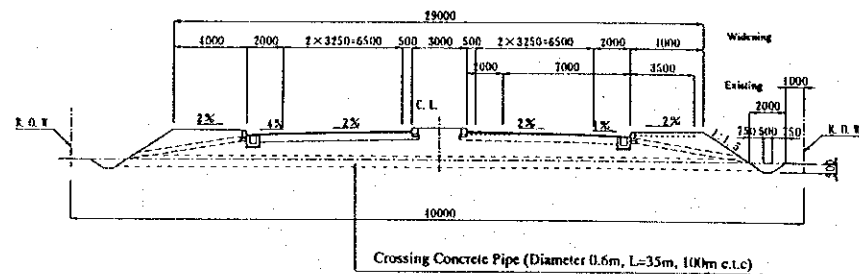




PLAN(-9) Scale 1:2000

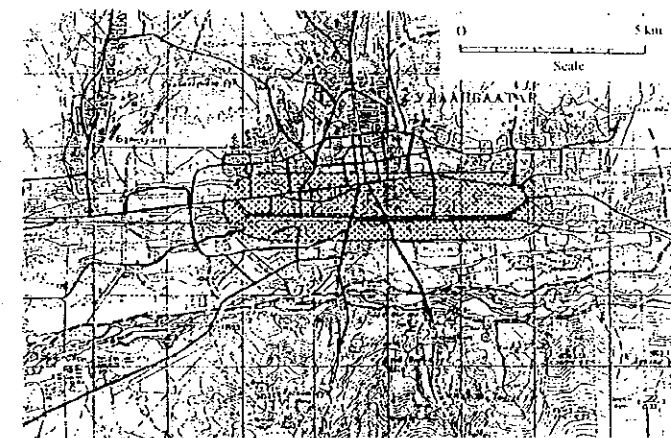


PLAN(-10) Scale 1:2000



Section Type F for Teverchid

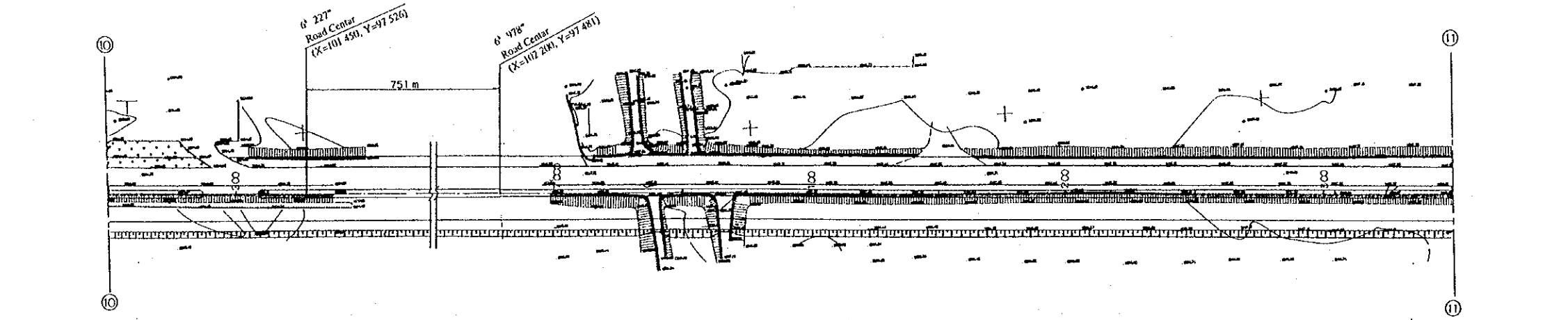
TYPICAL CROSS SECTION Scale 1:400



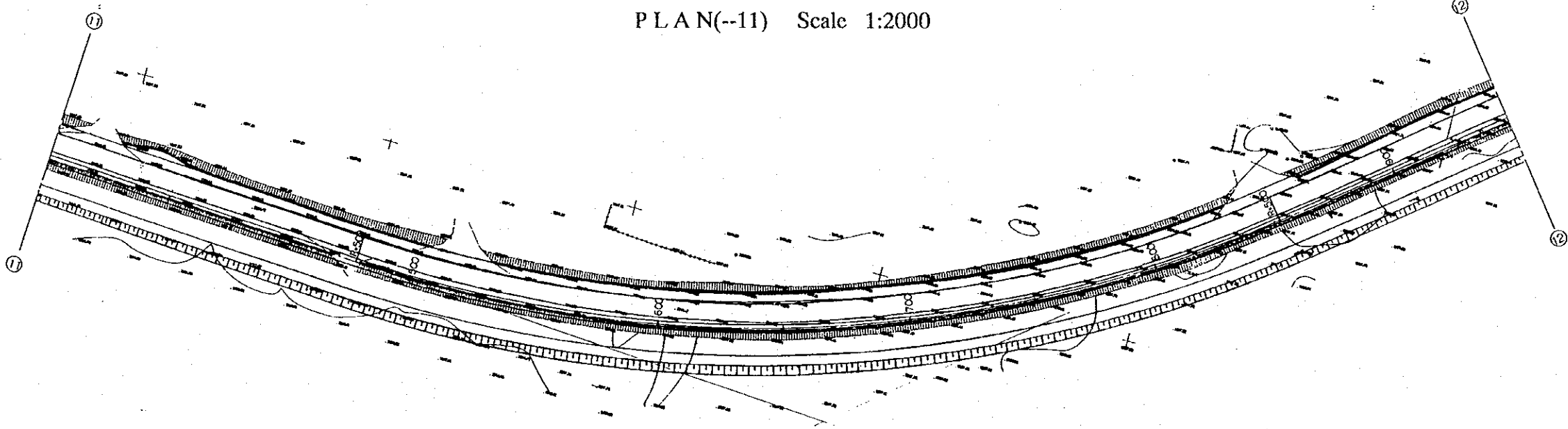
LOCATION MAP Scale 1:200000

NEW CONSTRUCTION FOR TEEVERCHID (5) Scale 1:2000

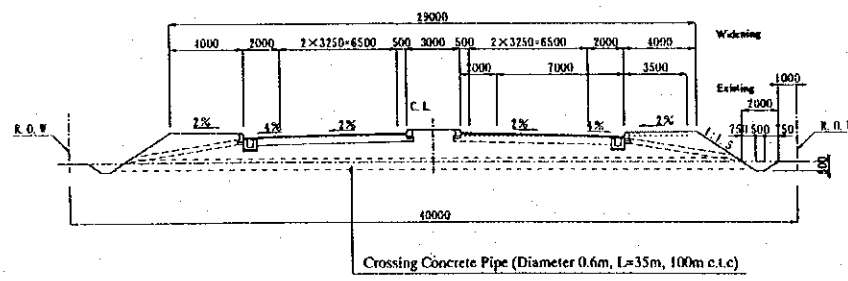
THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA	
PACIFIC CONSULTANTS INTERNATIONAL YACHYO ENGINEERING CO., LTD.		ULAANBAATAR CITY GOVERNMENT	
DRAWING NO.	SCALE	NO.	10
NEW CONSTRUCTION FOR TEEVERCHID (5)	1:400 1:2000 1:200000		



PLAN(--11) Scale 1:2000

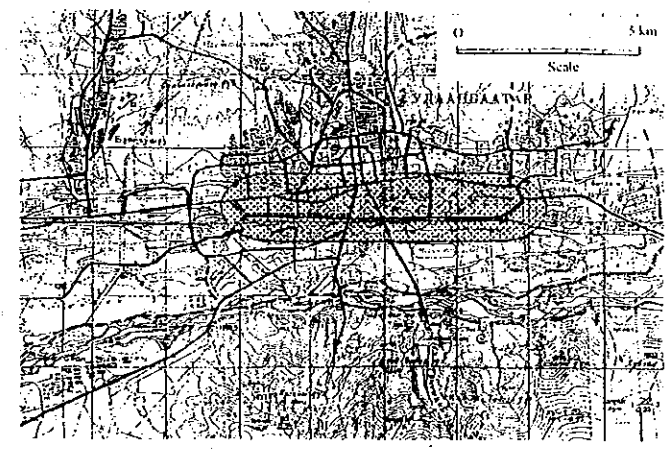


PLAN(--12) Scale 1:2000



Section Type F for Teeverchid

TYPICAL CROSS SECTION Scale 1:400



LOCATION MAP Scale 1:200000

NEW CONSTRUCTION FOR TEEVERCHID (6) Scale 1:2000

THE MASTER PLAN STUDY ON IMPROVEMENT AND REHABILITATION OF ROAD NETWORK IN ULAANBAATAR			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	MINISTRY OF INFRASTRUCTURE DEVELOPMENT OF GOVERNMENT OF MONGOLIA		
PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING CO., LTD.	ULAANBAATAR CITY GOVERNMENT		
DRAWING NEW CONSTRUCTION FOR TEEVERCHID (6)	SCALE	1:400 1:2000 1:200000	NO. 19