

NOTES:  
 1. ALL DIMENSIONS IN MILLIMETER UNLESS OTHERWISE SPECIFIED.  
 2. ALL ELEVATIONS(EL.) ARE IN METER.

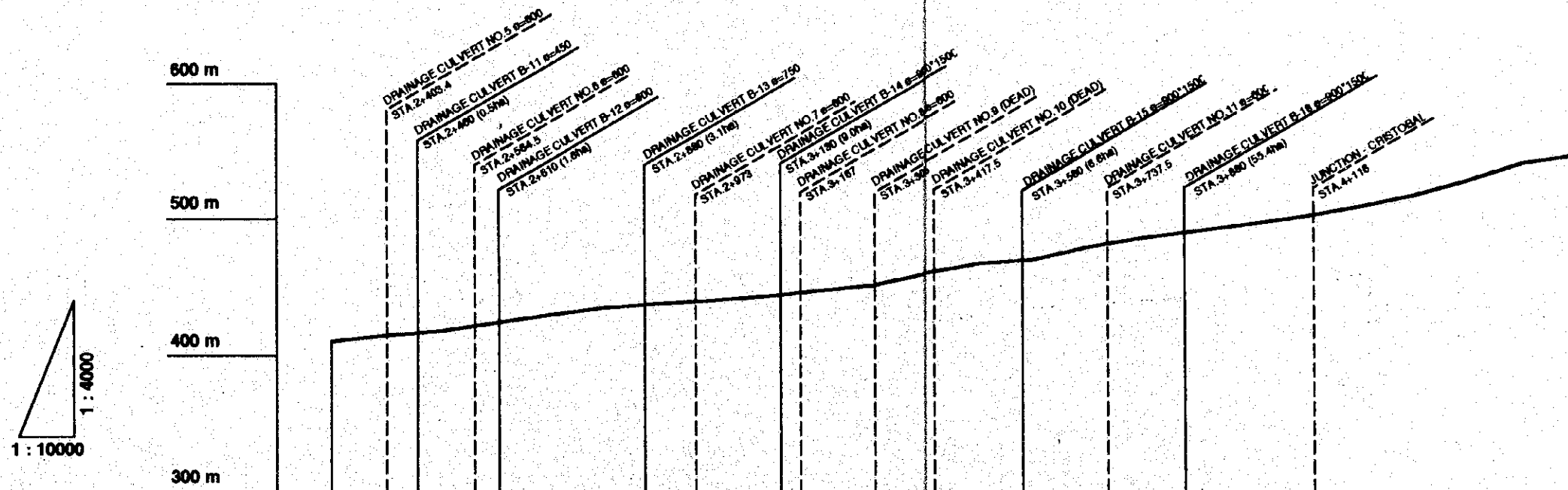
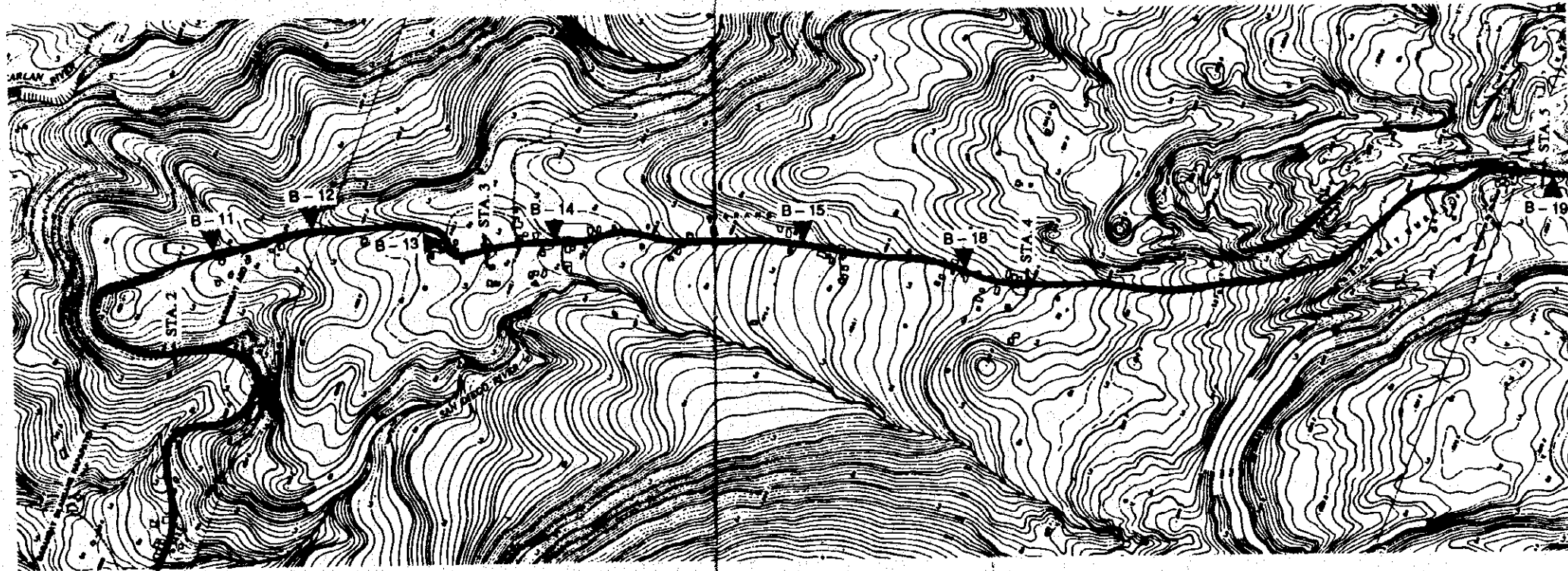
SCALE 1:10,000

PROPOSED ROAD TYPE	TYPE 1 (W=5.0m)										TYPE 2 (W=4.0m)														
PROPOSED L-SHAPE GUTTER	L=373m										L=78m														
ORIGINAL GROUND ELEV.	296.500	301.173	305.363	311.076	318.245	320.576	322.211	326.447	330.185	335.828	342.006	347.828	348.830	355.757	357.421	365.557	371.021	378.860	385.760	394.294	397.348	400.380	406.314	410.761	
DISTANCE																									
ACCUMULATED DIST.	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	

THE REPUBLIC OF THE PHILIPPINES  
 THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON  
 PLAN OF ROAD IMPROVEMENT (1/15)  
 SAN FRANCISCO - BUKAL ROAD OF NAGCARLAN

DRAWING NO. 7 SHEET 1 OF 3  
 PAGE 8

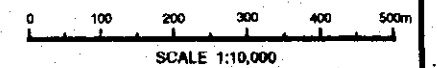
JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED ROAD TYPE	TYPE 2 (W=4.0m) STA. 1+981 STA. 5+014 L=3033m																							
PROPOSED L-SHAPE GUTTER																								
ORIGINAL GROUND ELEV.	410.761	414.787	417.985	423.604	429.845	434.670	438.022	440.446	443.863	447.802	451.927	456.811	467.909	470.419	479.578	486.120	481.228	486.108	501.850	508.822	517.040	528.086	541.055	547.057
DISTANCE																								
ACCUMULATED DIST.	2000	2400	2500	2800	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600
STATION	2+000	2+400	2+500	2+800	2+700	2+800	2+900	3+000	3+100	3+200	3+300	3+400	3+500	3+600	3+700	3+800	3+900	4+000	4+100	4+200	4+300	4+400	4+500	4+600

NOTES:

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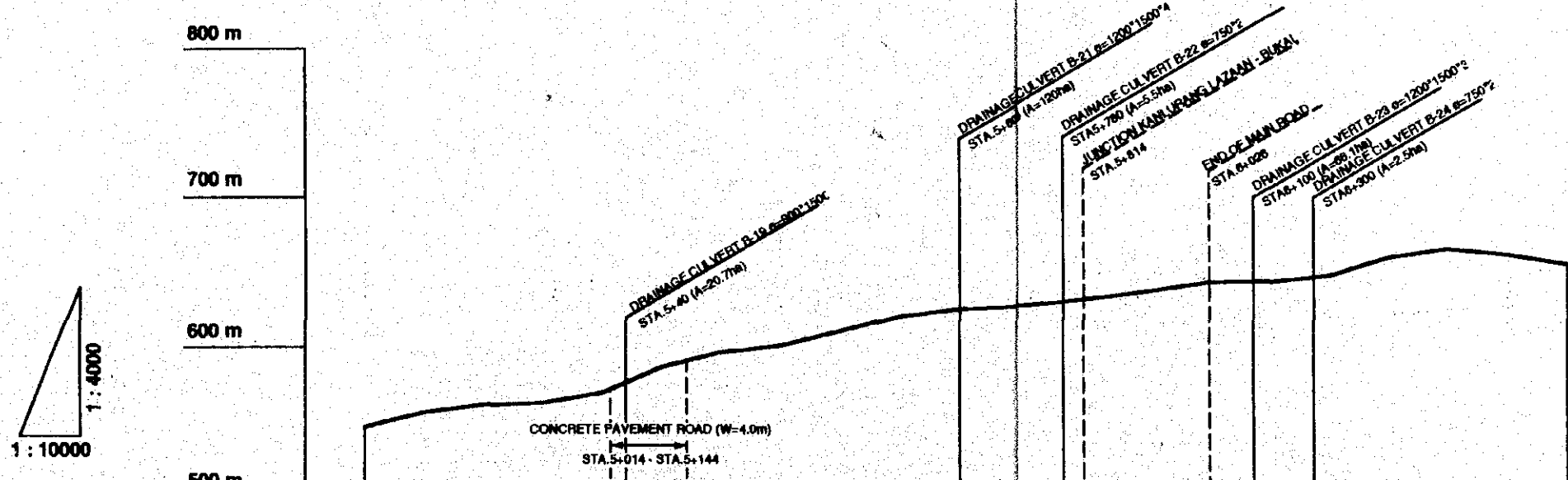
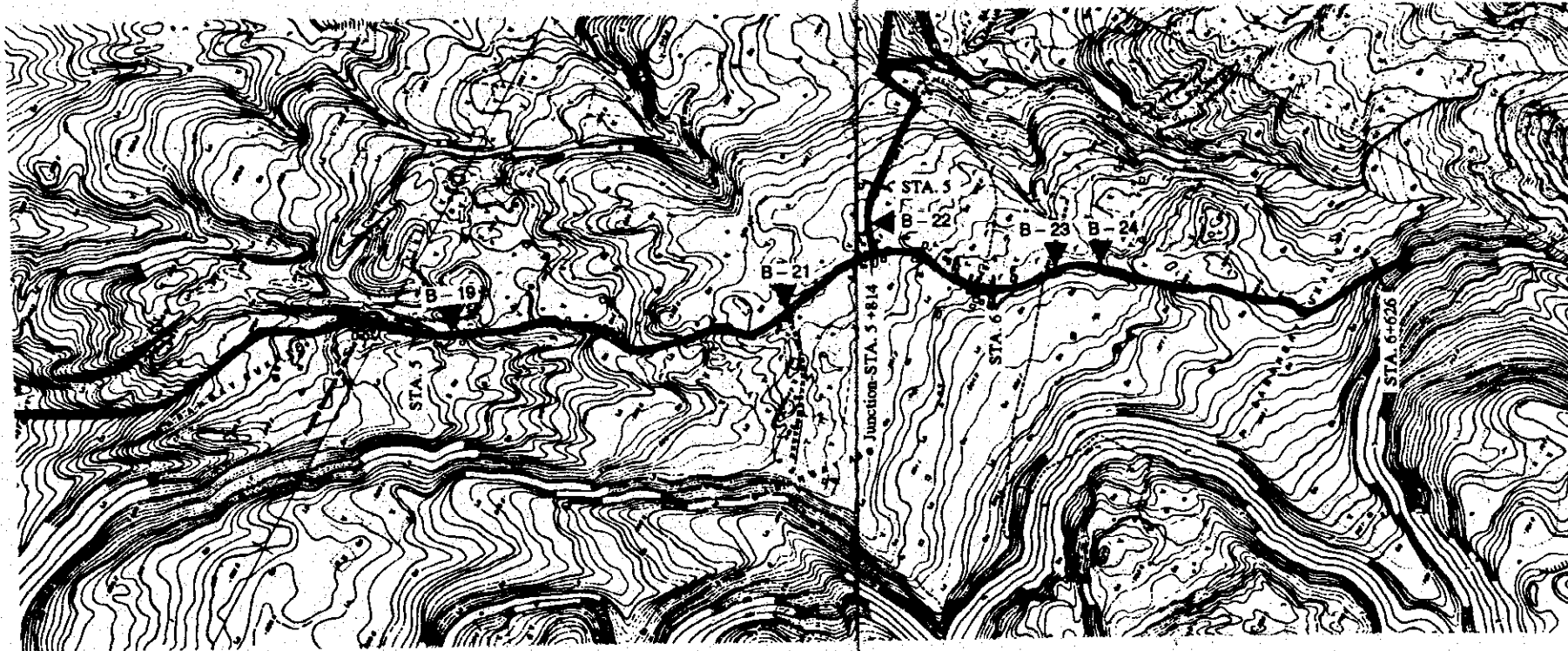
THE REPUBLIC OF THE PHILIPPINES

THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON

PLAN OF ROAD IMPROVEMENT (2/15) SAN FRANCISCO - BUKAL ROAD OF NAGCARLAN

DRAWING NO. 7 SHEET 2 OF 3 PAGE 8

JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED ROAD TYPE	TYPE 2 (W=4.0m) STA. 1+001 - STA. 5+014 L=3033m	TYPE 2 (W=4.0m) STA. 5+144 - STA. 6+026 L=882m	TYPE 2 (W=4.0m) STA. 6+026 - STA. 6+626 L=600m
PROPOSED L-SHAPE GUTTER	L=130m		
ORIGINAL GROUND ELEV.	547.057, 550.665, 561.859, 563.912, 570.054, 587.196, 597.223, 601.436, 611.297, 621.252, 626.176	632.005, 636.572, 642.187, 643.704, 644.216, 648.087, 660.191, 665.769, 667.765, 655.211	
DISTANCE			
ACCUMULATED DIST.	4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600	5800, 5900, 6000, 6026, 6126, 6226, 6326, 6426, 6526, 6626	
STATION	4+600, 4+700, 4+800, 4+900, 5+000, 5+100, 5+200, 5+300, 5+400, 5+500, 5+600	5+800, 5+900, 6+000, 6+026, 6+126, 6+226, 6+326, 6+426, 6+526, 6+626	

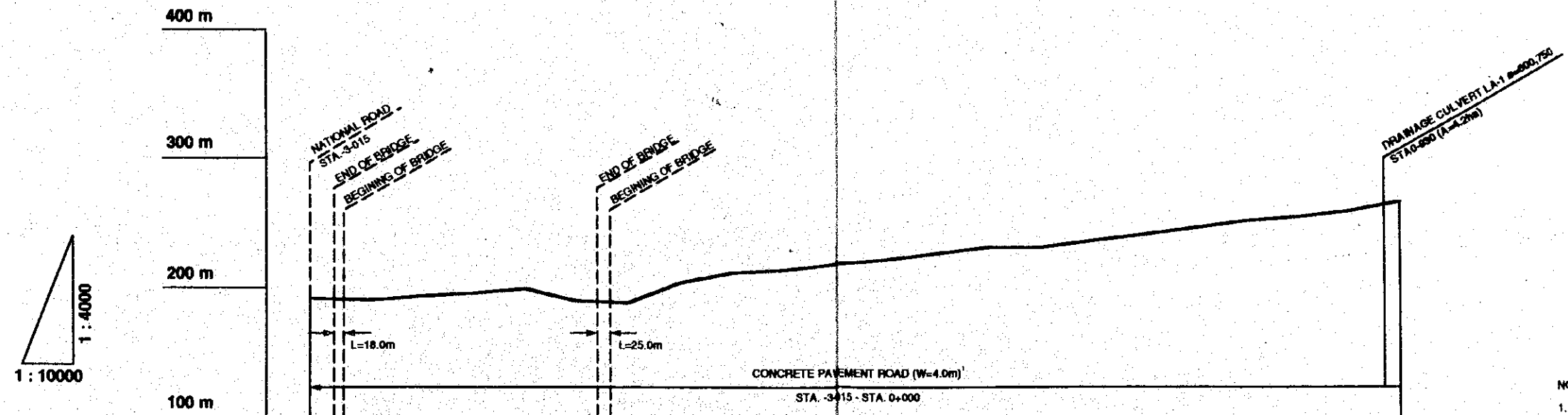
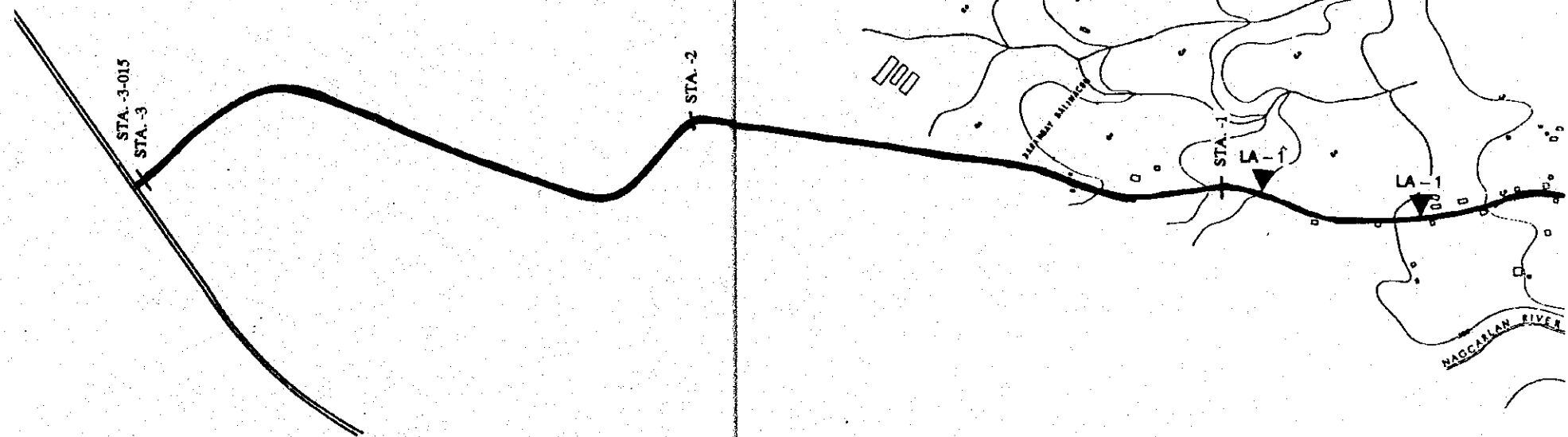
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SCALE 1:10,000

THE REPUBLIC OF THE PHILIPPINES  
 THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON  
 PLAN OF ROAD IMPROVEMENT (3/15) SAN FRANCISCO - BUKAL ROAD OF NAGCARLAN

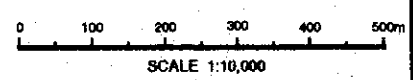
DRAWING NO. 7 SHEET 3 OF 3  
 PAGE 10

JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED ROAD TYPE	
PROPOSED L-SHAPE GUTTER	
ORIGINAL GROUND ELEV.	181.992, 190.635, 193.504, 195.645, 198.131, 199.730, 199.470, 203.992, 211.568, 213.382, 218.098, 221.354, 226.123, 230.870, 238.000, 240.877, 245.823, 251.534, 254.388, 258.877, 266.292, 271.328
DISTANCE	
ACCUMULATED DIST.	3+015, 2+800, 2+600, 2+400, 2+200, 2+000, 1+800, 1+600, 1+400, 1+200, 1+000, 800, 600, 400, 200, 0
STATION	3+015, 2+800, 2+600, 2+400, 2+200, 2+000, 1+800, 1+600, 1+400, 1+200, 1+000, 800, 600, 400, 200, 0

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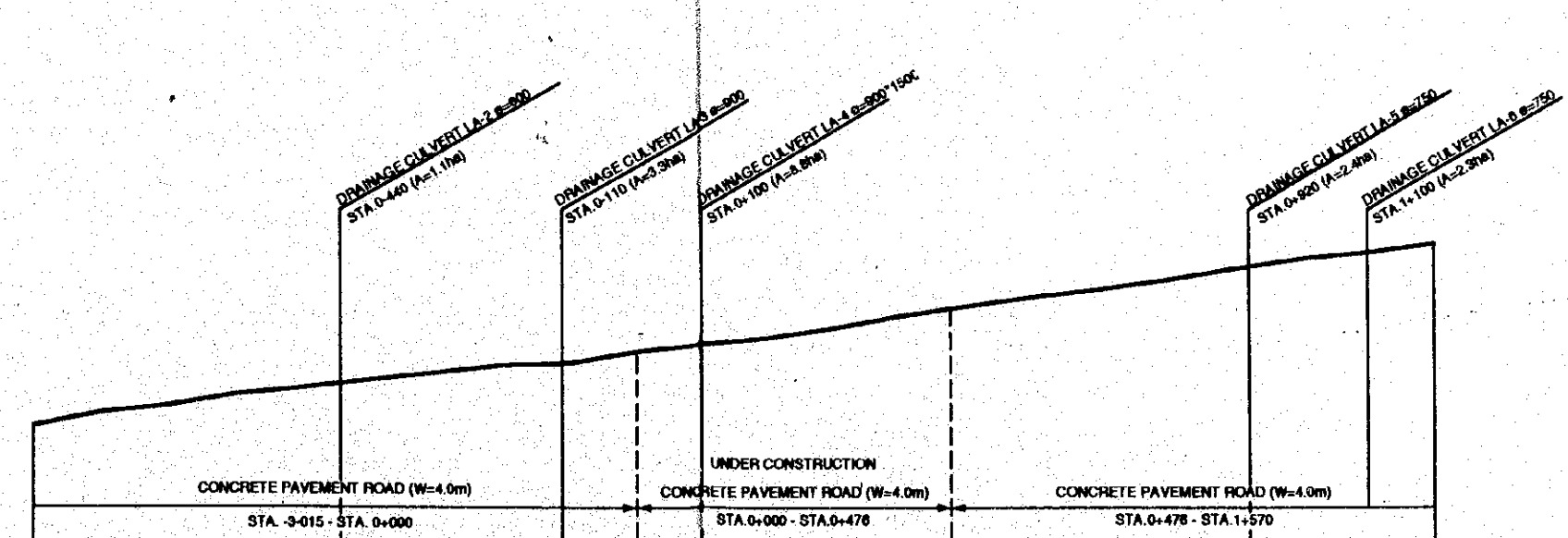
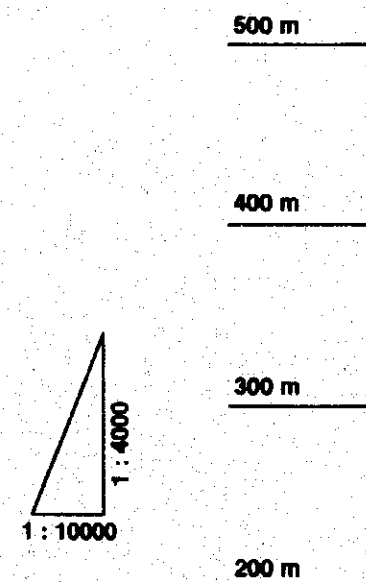
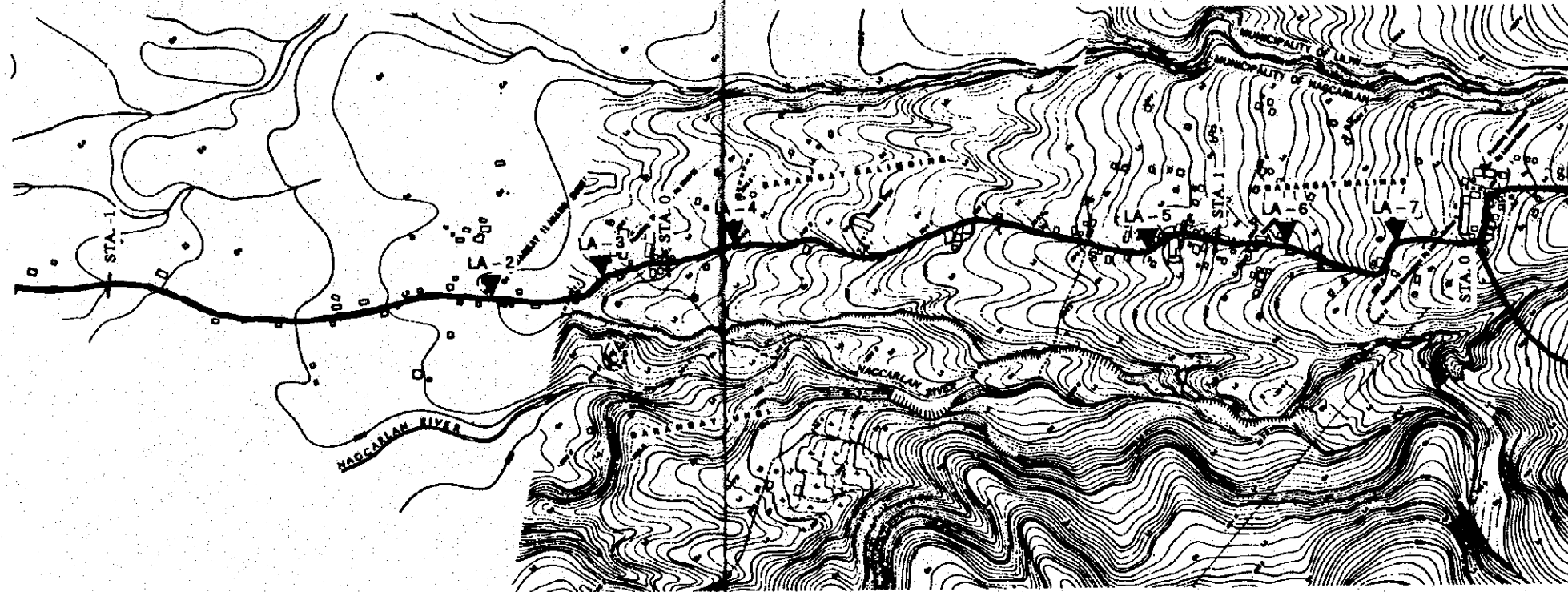
THE REPUBLIC OF THE PHILIPPINES

THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON

PLAN OF ROAD IMPROVEMENT (4/15) SINIPIAN - SILANGAN LAZAN ROAD OF NAGCARLAN

DRAWING NO. 7 SHEET 1 OF 3 PAGE 11

JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED ROAD TYPE	CONCRETE PAVEMENT ROAD (W=4.0m)												CONCRETE PAVEMENT ROAD (W=4.0m)												CONCRETE PAVEMENT ROAD (W=4.0m)											
PROPOSED L-SHAPE GUTTER	L=3015m												L=478m												L=1094m											
ORIGINAL GROUND ELEV.	271.326	273.256	283.354	285.935	294.058	296.775	302.940	307.629	309.500	315.614	323.822	329.510	337.022	342.778	348.152	352.858	358.336	365.246	371.198	374.688	380.016															
DISTANCE																																				
ACCUMULATED DIST.	-400	-300	-200	-100	0	100	200	300	400	500	600	700	800	900	1000	1100	1200																			
STATION	0+800	0+700	0+600	0+500	0+400	0+300	0+200	0+100	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000	1+100	1+200															

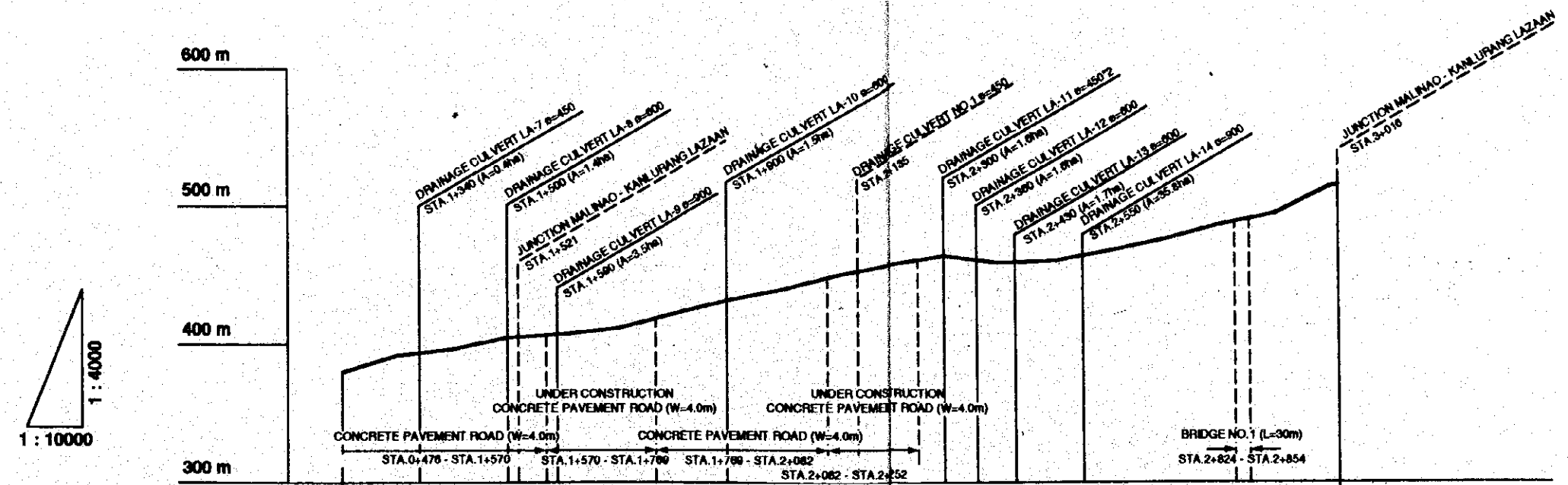
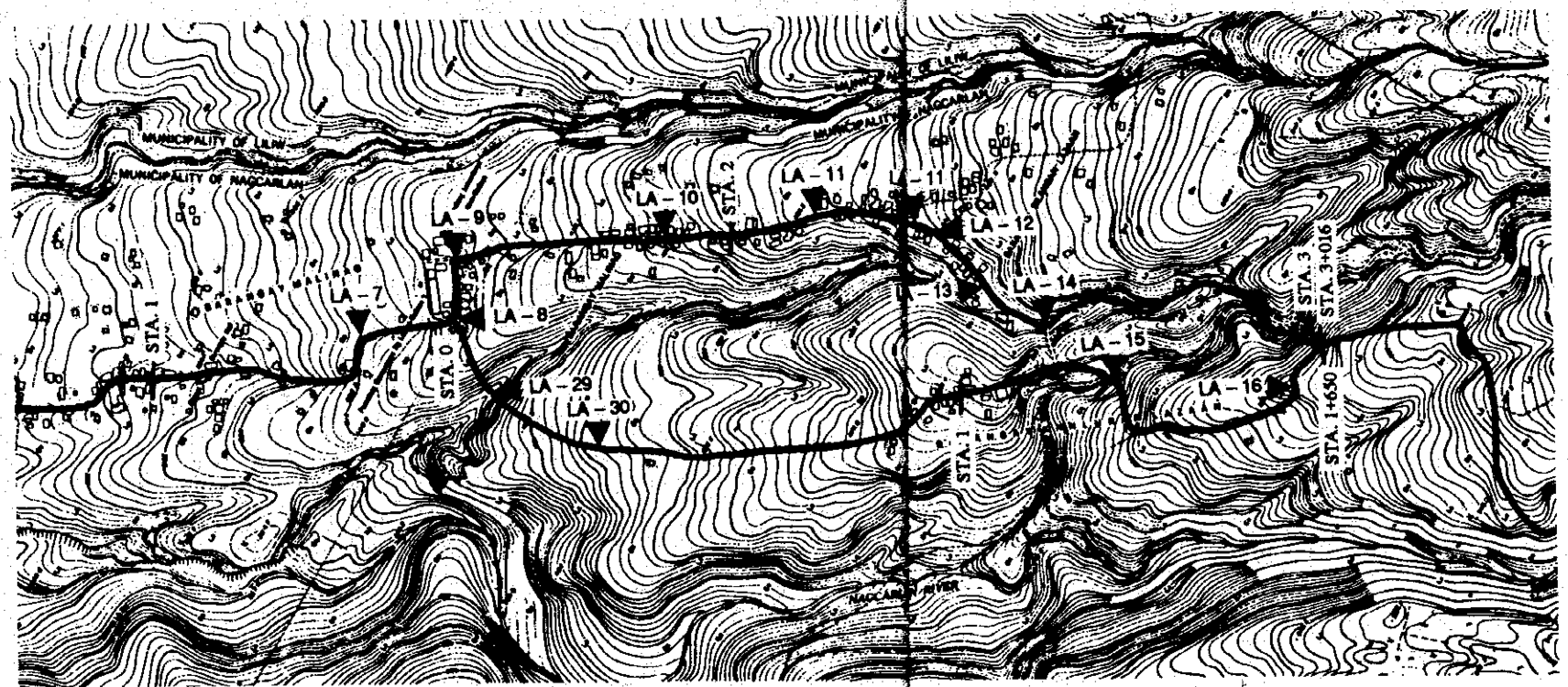
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SCALE 1:10,000

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 THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON  
 PLAN OF ROAD IMPROVEMENT (6/15) SINIPIAN - SILANGAN LAZAAAN ROAD OF NAGCARLAN

DRAWING NO. 7 SHEET 2 OF 3  
 PAGE 12

JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED ROAD TYPE	TYPE 2 (W=4.0m)																		
PROPOSED L-SHAPE GUTTER	L=1094m				L=199m			L=313m				L=179m							
ORIGINAL GROUND ELEV.	360.016	391.942	398.585	403.046	407.537	411.824	422.165	431.914	439.487	448.848	467.304	463.787	458.535	460.075	467.533	475.447	486.153	493.864	513.791
DISTANCE																			
ACCUMULATED DIST.	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000
STATION	1+200	1+300	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	2+400	2+500	2+600	2+700	2+800	2+900	3+000

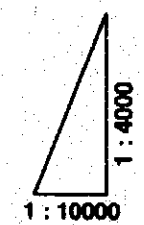
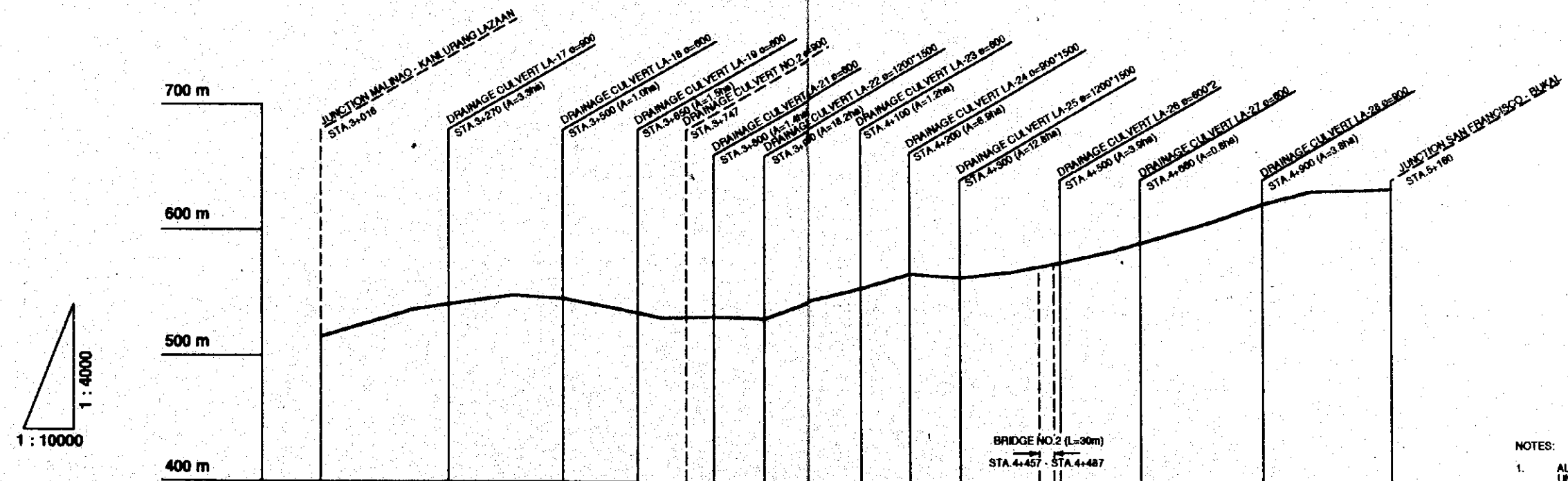
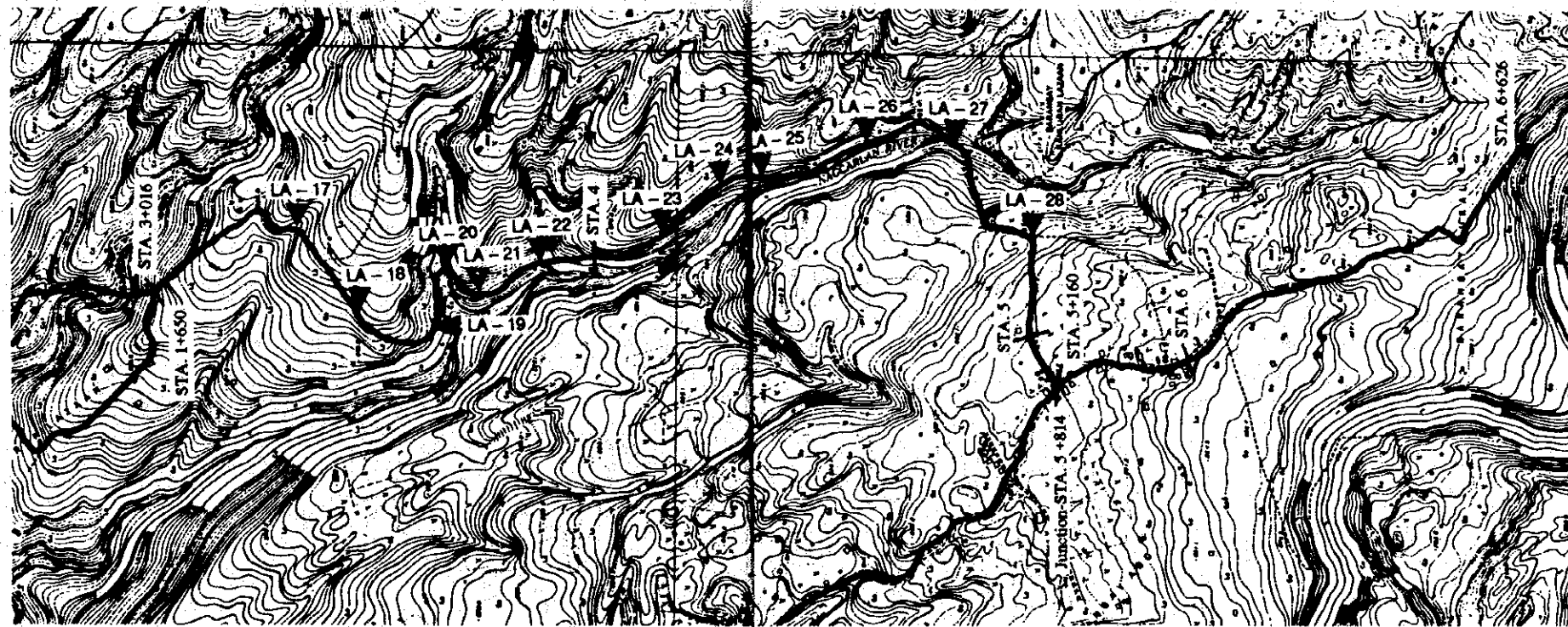
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THE REPUBLIC OF THE PHILIPPINES  
 THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON  
 PLAN OF IMPROVEMENT (6/15) SINIPIAN - SILANGAN LAZAAAN ROAD OF NAGCARLAN

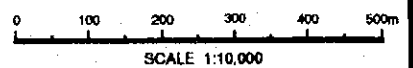
DRAWING NO. 7 SHEET 3 OF 3  
 PAGE 13

JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED ROAD TYPE	TYPE 2 (W=4.0m)																						
PROPOSED L-SHAPE GUTTER	STA. 3+016 - STA. 5+160 L=2144m																						
ORIGINAL GROUND ELEV.	525.044	530.868	542.783	548.291	545.798	538.420	530.176	531.148	528.728	538.727	553.998	565.282	562.617	568.859	574.206	582.824	594.027	606.883	620.800	631.024	631.619	632.774	
DISTANCE																							
ACCUMULATED DIST.	3+016	3+100	3+200	3+300	3+400	3+500	3+600	3+700	3+800	3+900	4+000	4+100	4+200	4+300	4+400	4+500	4+600	4+700	4+800	4+900	5+000	5+100	5+160
STATION	3+016	3+100	3+200	3+300	3+400	3+500	3+600	3+700	3+800	3+900	4+000	4+100	4+200	4+300	4+400	4+500	4+600	4+700	4+800	4+900	5+000	5+100	5+160

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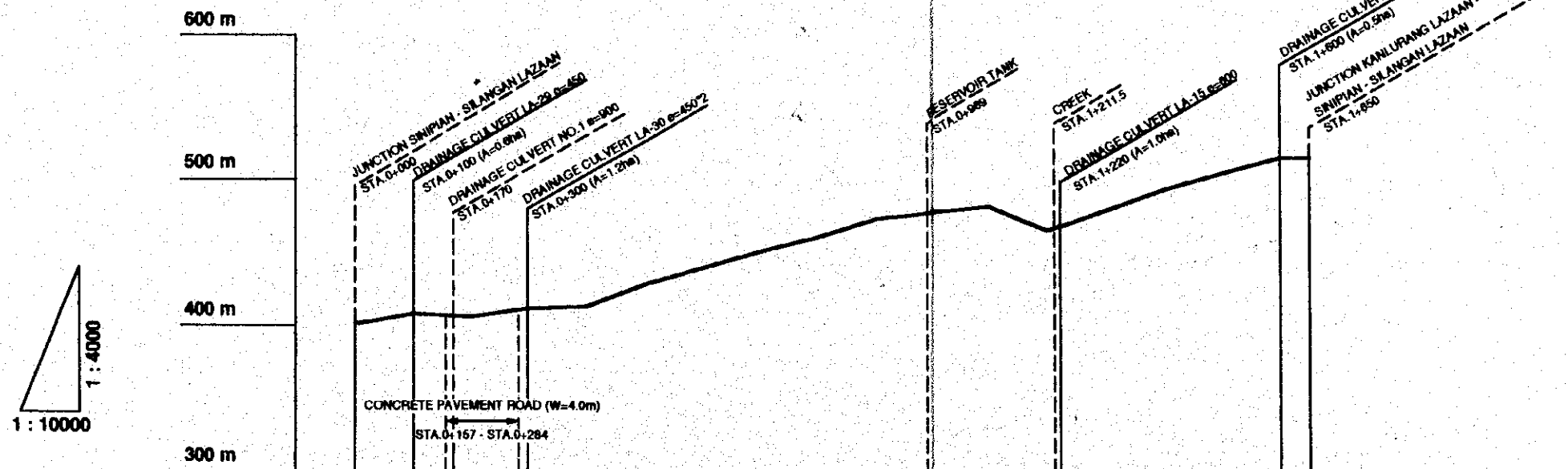
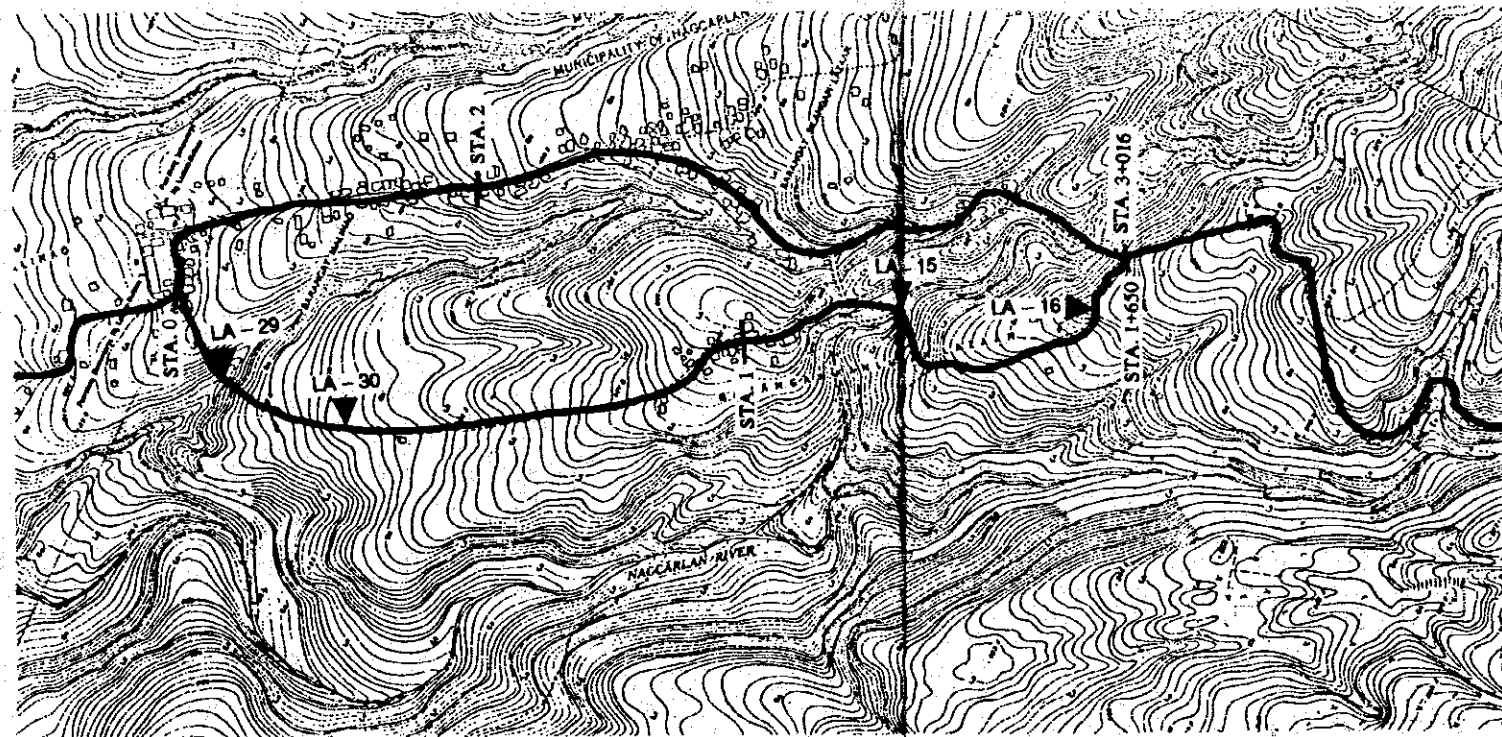
THE REPUBLIC OF THE PHILIPPINES

THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON

PLAN OF ROAD IMPROVEMENT (7/15) KANLURANG LAZAAN - BUKAL ROAD OF NAGCARLAN

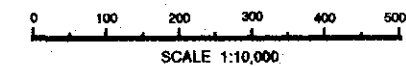
DRAWING NO. 7 SHEET 1 OF 1 PAGE 14

JAPAN INTERNATIONAL COOPERATION AGENCY



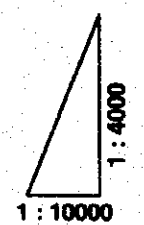
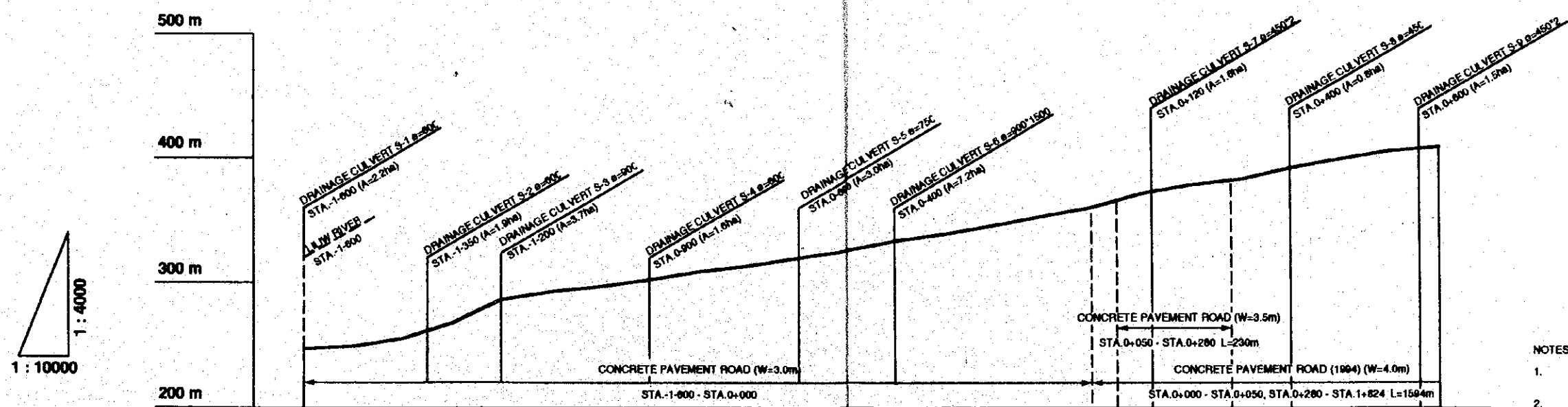
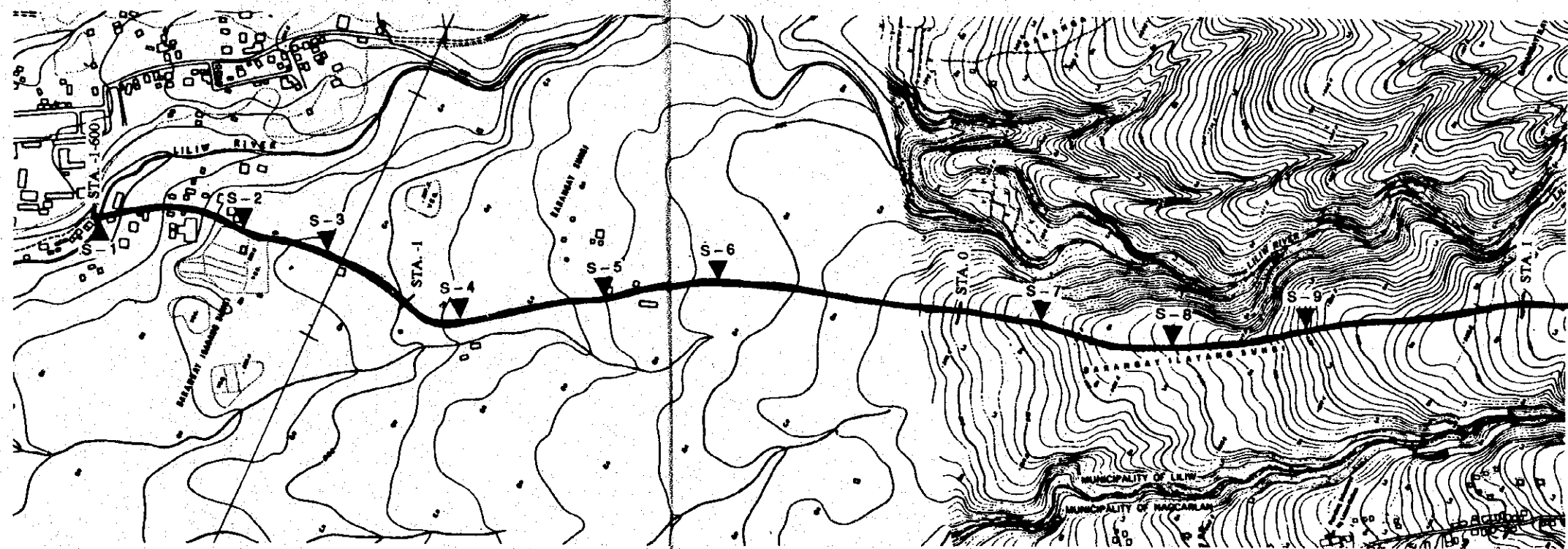
PROPOSED ROAD TYPE	TYPE 2 (W=4.0m) STA. 0+000 - STA. 0+157 L=157m	TYPE 2 (W=4.0m) STA. 0+284 - STA. 1+850 L=1300m
PROPOSED L-SHAPE GUTTER	L=127m	
ORIGINAL GROUND ELEV.	407.559 408.584 408.785 412.678 413.884 428.417 440.581 451.857 461.863 474.330 478.800 482.797 486.161 486.889 484.787 505.813 516.082 516.207	
DISTANCE		
ACCUMULATED DIST.	0 100 200 300 400 500 600 700 800 900 1000	1100 1200 1300 1400 1500 1600 1650
STATION	0+000 0+100 0+200 0+300 0+400 0+500 0+600 0+700 0+800 0+900 1+000	1+100 1+200 1+300 1+400 1+500 1+600 1+650

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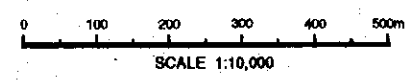


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 THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON  
 PLAN OF ROAD IMPROVEMENT (8/15) MALINAO - KANLURANG LAZAAAN ROAD OF NAGCARLAN  
 DRAWING NO. 7 SHEET 1 OF 1  
 PAGE 15  
 JAPAN INTERNATIONAL COOPERATION AGENCY





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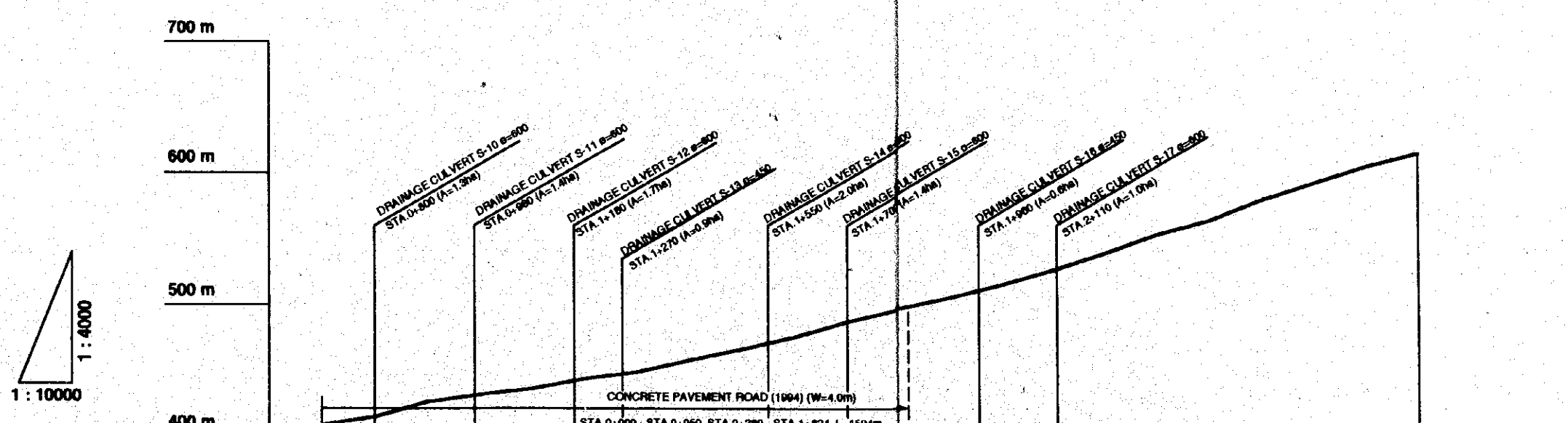
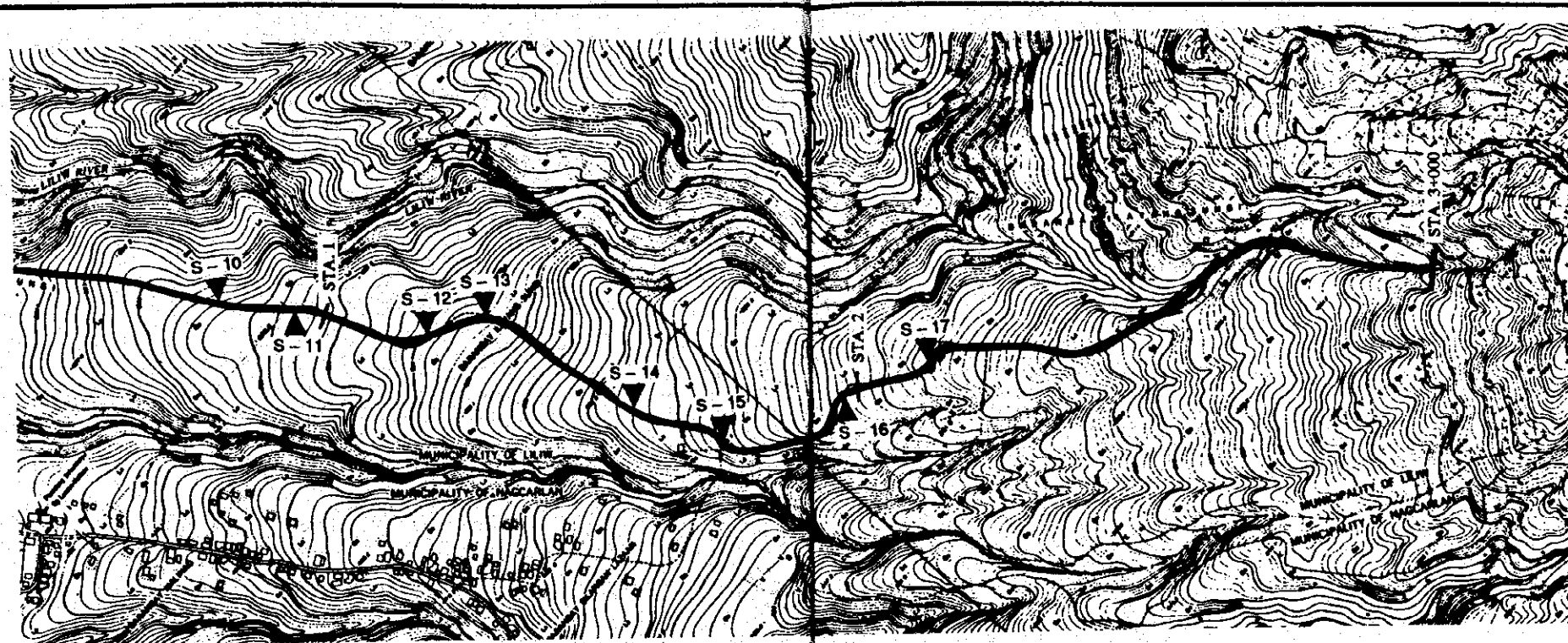


PROPOSED ROAD TYPE	
PROPOSED L-SHAPE GUTTER	
ORIGINAL GROUND ELEV.	247.039, 249.237, 255.441, 267.480, 288.283, 292.749, 297.103, 302.621, 308.908, 313.743, 320.223, 333.778, 338.082, 345.981, 353.207, 390.288, 371.571, 376.641, 383.055, 391.920, 398.332, 405.708, 408.210
DISTANCE	L=1800m, L=1824m
ACCUMULATED DIST.	-1000, -1500, -1400, -1300, -1200, -1100, -1000, -900, -800, -700, -600, -500, -400, -300, -200, -100, 0, 100, 200, 300, 400, 500, 600, 700
STATION	-1+600, -1+500, -1+400, -1+300, -1+200, -1+100, -1+000, 0+900, 0+800, 0+700, 0+600, 0+500, 0+400, 0+300, 0+200, 0+100, 0+000, 0+100, 0+200, 0+300, 0+400, 0+500, 0+600, 0+700

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 THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON  
 PLAN OF ROAD IMPROVEMENT (9/15) IBANGBANG SUNGI - ILAYANG SUNGI ROAD OF LILIW

DRAWING NO. 7 SHEET 1 OF 2  
 PAGE 18

JAPAN INTERNATIONAL COOPERATION AGENCY

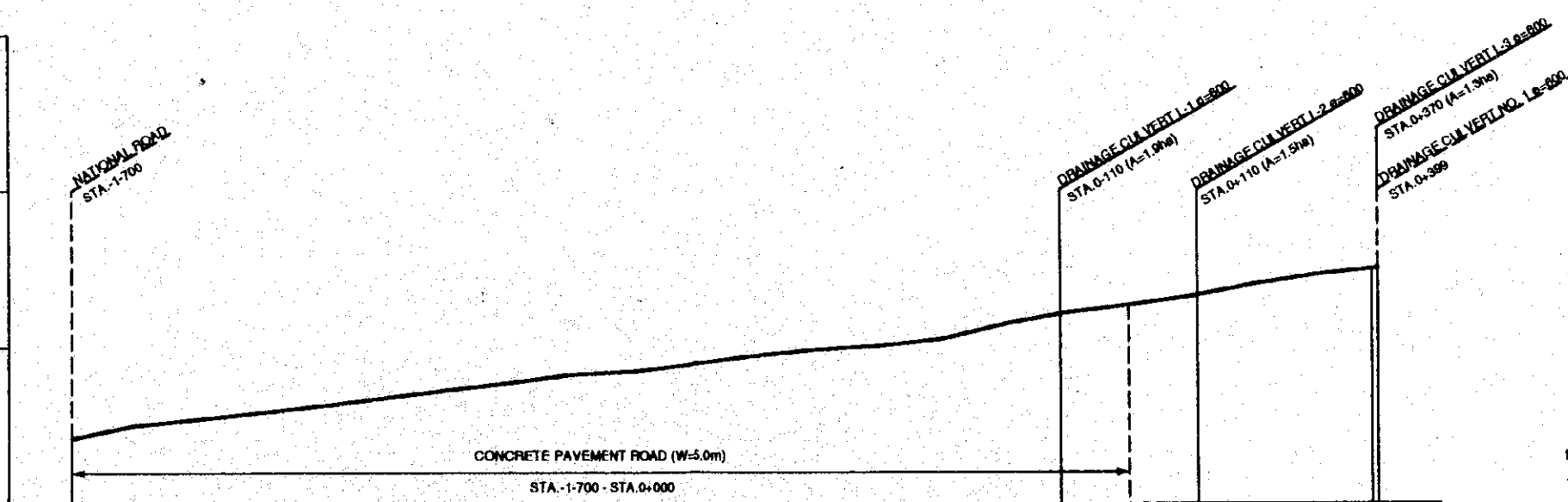
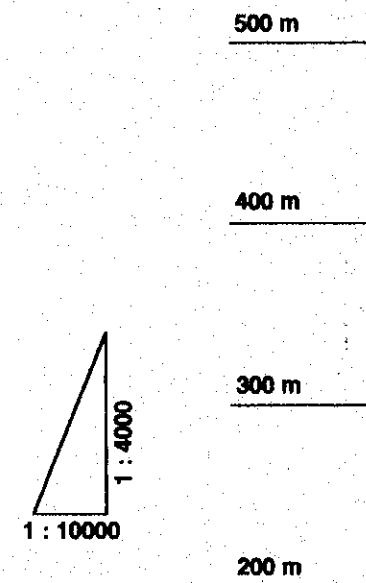
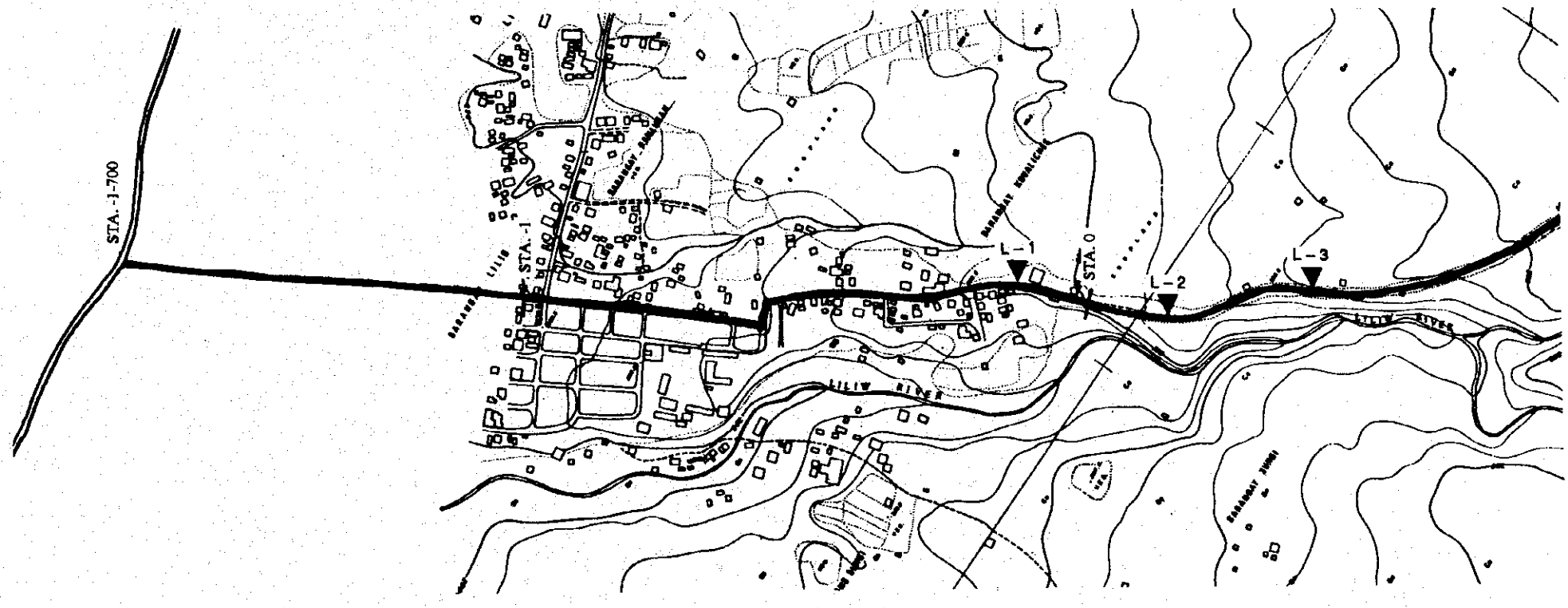


PROPOSED ROAD TYPE	TYPE 2 (W=4.0m)																												
PROPOSED L-SHAPE GUTTER	L=1824m																												
ORIGINAL GROUND ELEV.	409.216	415.464	428.741	432.275	436.810	444.200	448.543	458.475	466.737	475.871	487.496	498.154	505.396	514.842	525.791	536.468	552.840	563.286	578.717	589.881	603.837	613.700							
DISTANCE	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800
ACCUMULATED DIST.	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800							
STATION	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	2+400	2+500	2+600	2+700	2+800							

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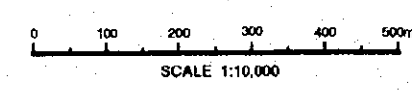
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THE REPUBLIC OF THE PHILIPPINES  
 THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON  
 PLAN OF ROAD IMPROVEMENT (10/15) IBANGBANG SUNGI - ILAYANG SUNGI ROAD OF LILIW  
 DRAWING NO. 7 SHEET 2 OF 2  
 PAGE 17  
 JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED ROAD TYPE	CONCRETE PAVEMENT ROAD (W=5.0m)																			TYPE 1 (W=5.0m)			
PROPOSED L-SHAPE GUTTER	L=1700m																			L=1607m			
ORIGINAL GROUND ELEV.	241.859	250.223	254.205	258.402	262.994	267.820	272.480	277.275	282.681	284.737	286.808	284.550	286.411	300.912	305.004	314.582	321.984	328.500	332.188	338.876	345.800	350.087	
DISTANCE																							
ACCUMULATED DIST.	-1700	-1500	-1300	-1100	-900	-700	-500	-300	-100	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	
STATION	-1-700	-1-600	-1-500	-1-400	-1-300	-1-200	-1-100	-1-000	0-800	0-700	0-600	0-500	0-400	0-300	0-200	0-100	0+000	0+100	0+200	0+300	0+400	0+500	

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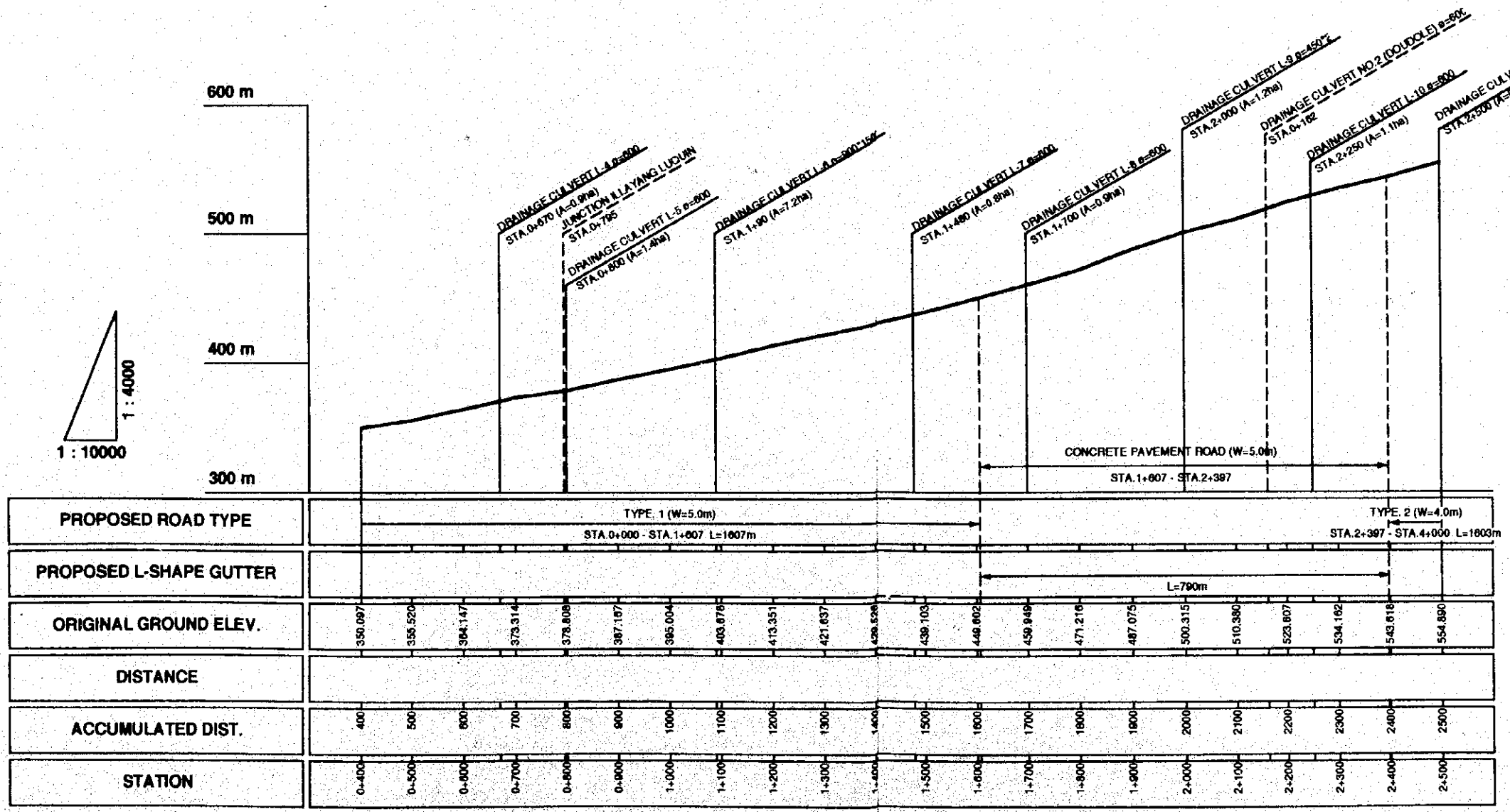
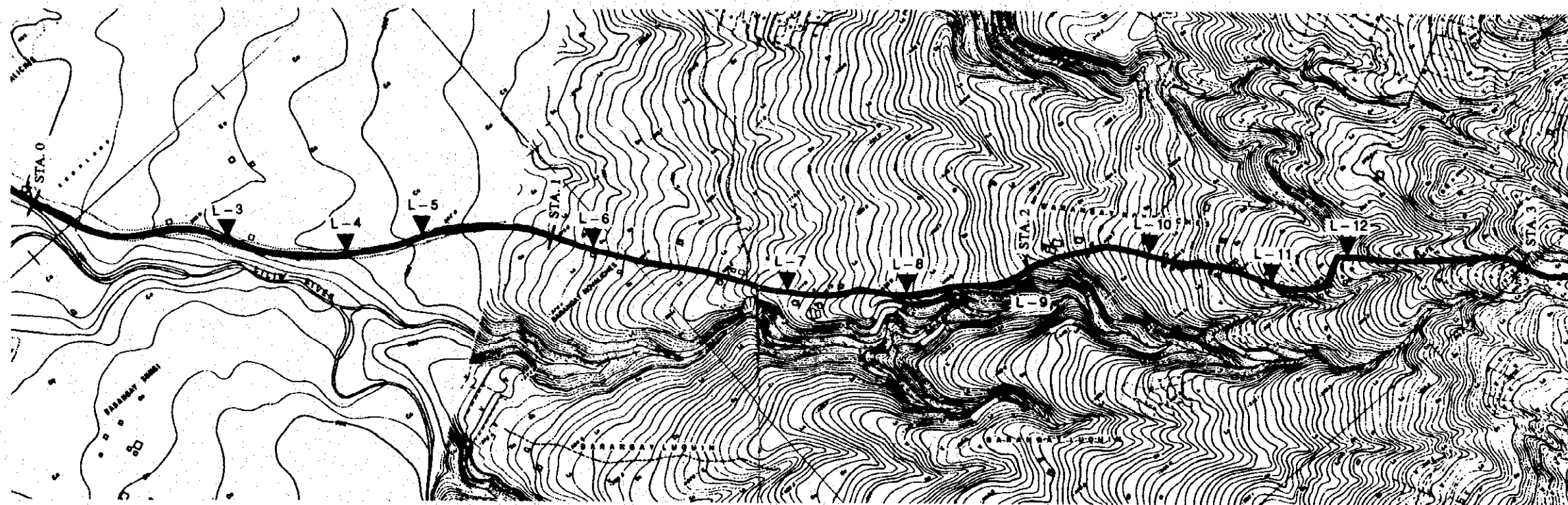
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THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON

PLAN OF ROAD IMPROVEMENT (11/15) NOVALICHES - LUQUIN ROAD OF LILIW

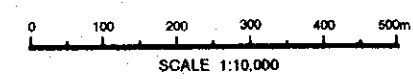
DRAWING NO. 7 SHEET 1 OF 3 PAGE 18

JAPAN INTERNATIONAL COOPERATION AGENCY



1 : 4000  
1 : 10000

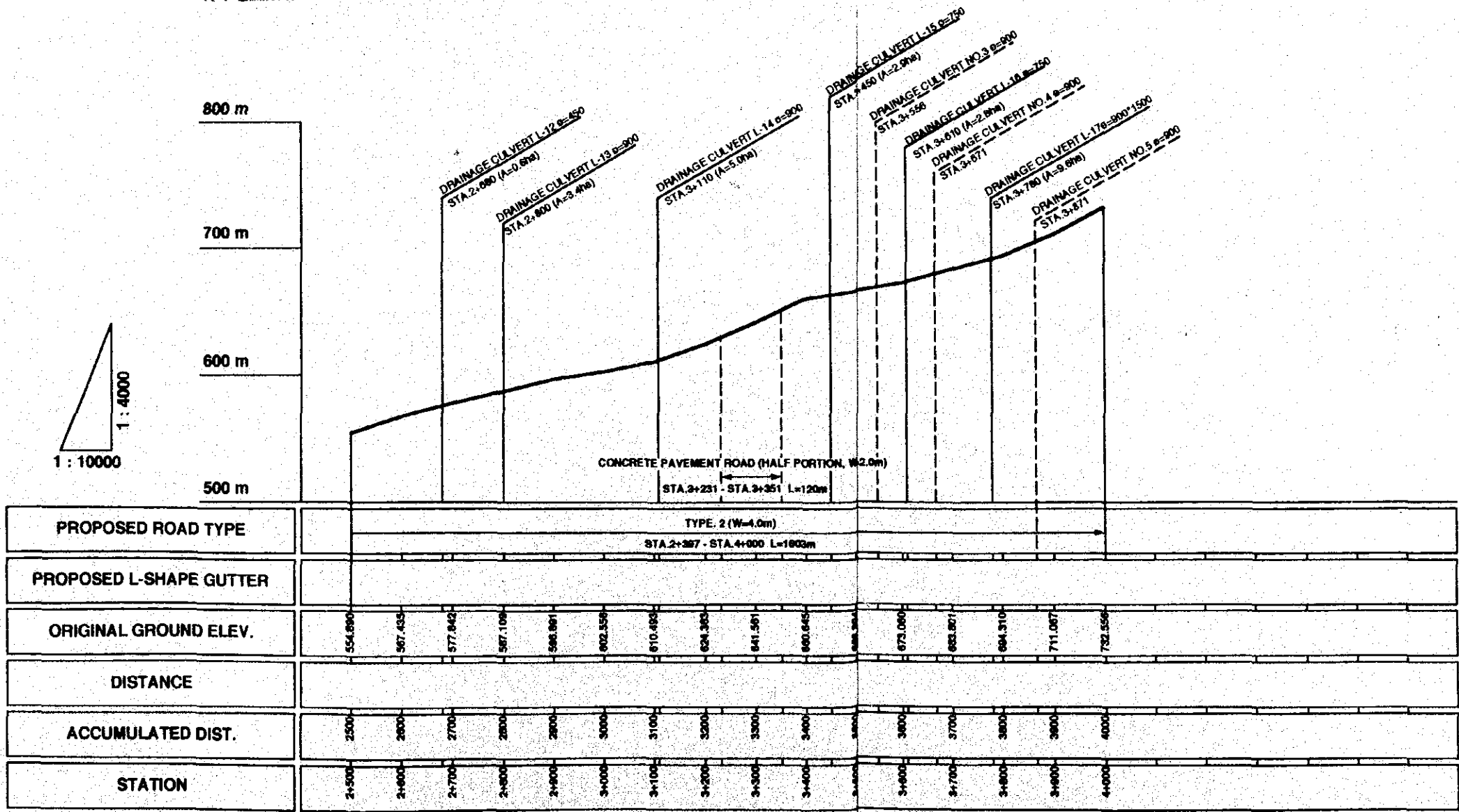
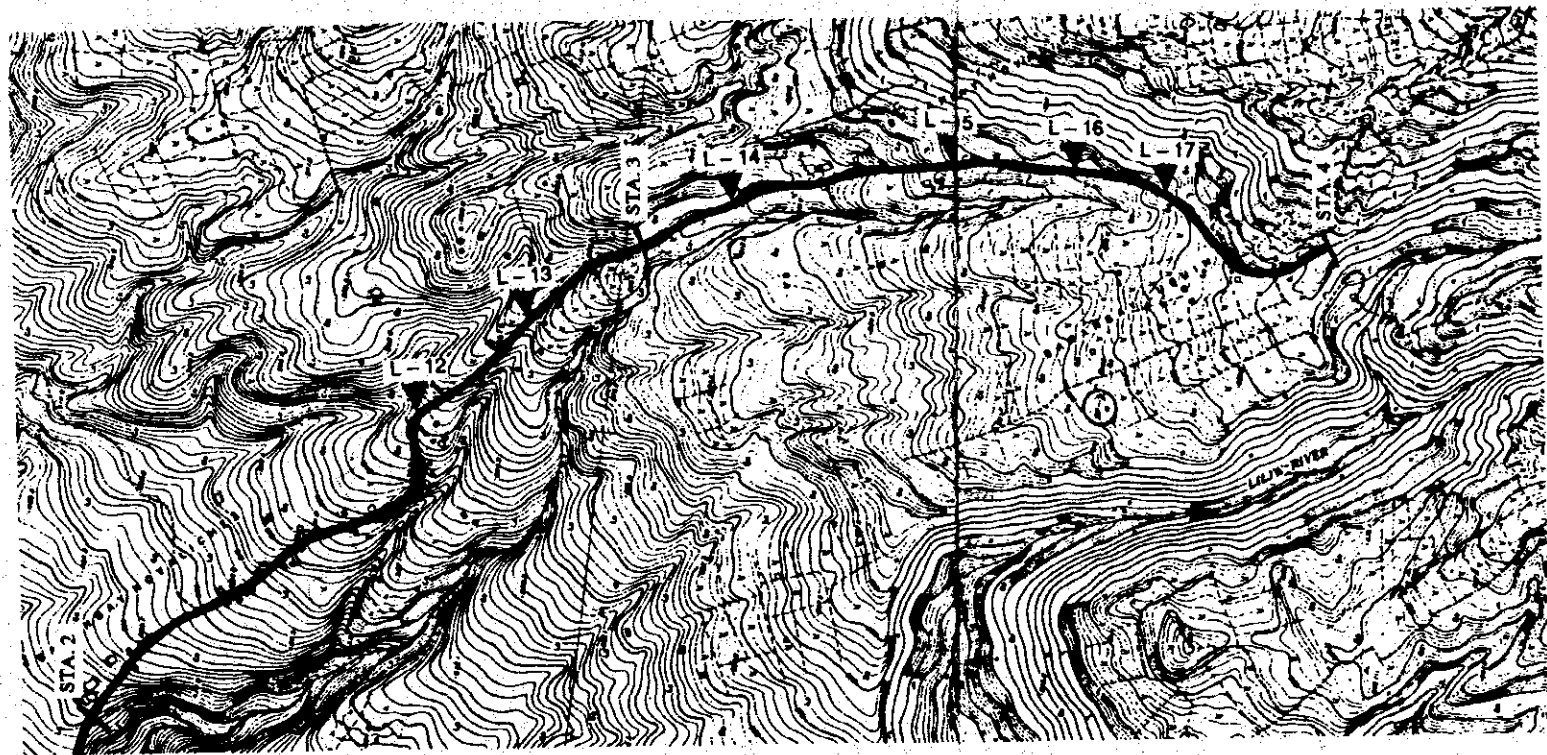
- NOTES:
1. ALL DIMENSIONS IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
  2. ALL ELEVATIONS(EL.) ARE IN METER.



THE REPUBLIC OF THE PHILIPPINES  
 THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON  
 PLAN OF ROAD IMPROVEMENT (12/15) NOVALICHES - LUQUIN ROAD OF LILIW

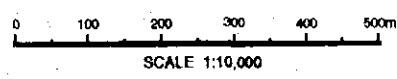
DRAWING NO. 7 SHEET 2 OF 3  
 PAGE 18

JAPAN INTERNATIONAL COOPERATION AGENCY



1 : 10000

- NOTES:
1. ALL DIMENSIONS IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
  2. ALL ELEVATIONS(EL.) ARE IN METER.



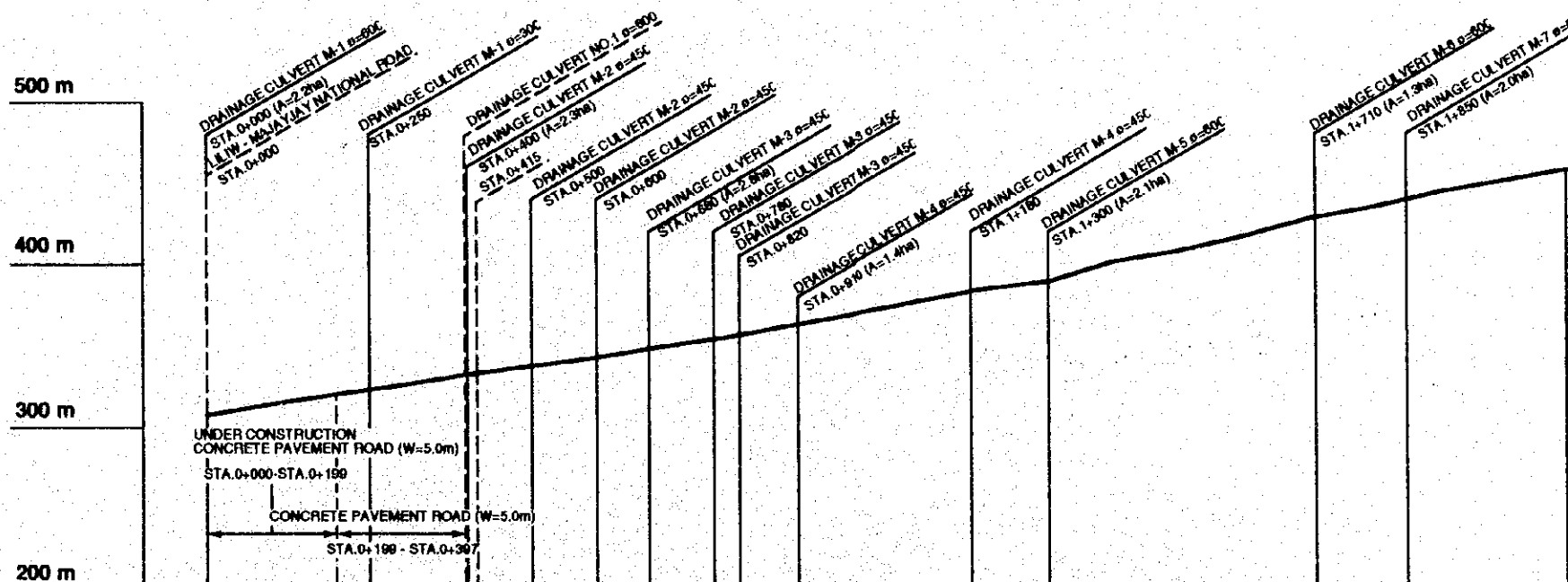
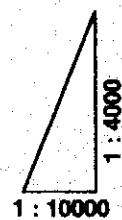
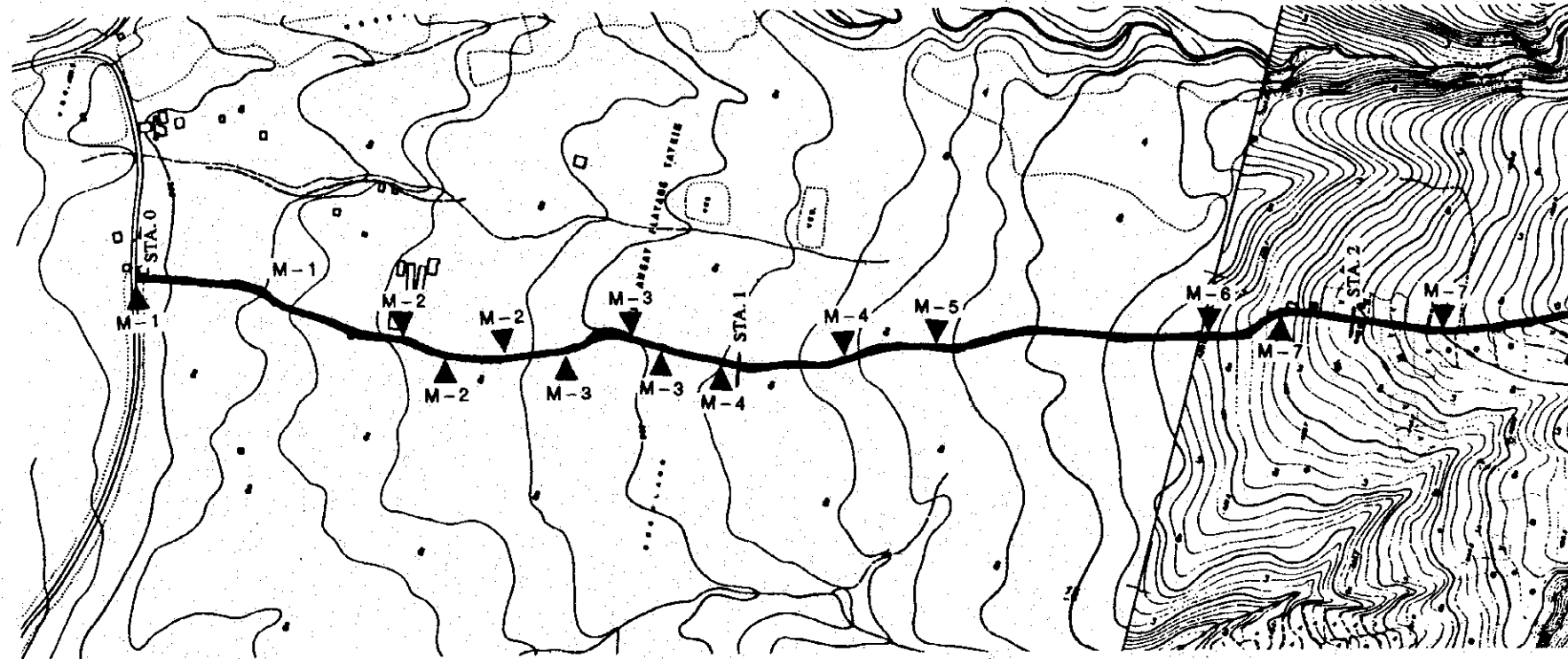
THE REPUBLIC OF THE PHILIPPINES

THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON

PLAN OF ROAD IMPROVEMENT (13/15) NOVALICHES - LUQUIN ROAD OF LILIW

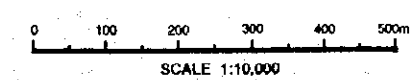
DRAWING NO.	7	SHEET	3 OF 3
		PAGE	20

JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED ROAD TYPE	TYPE 2 (W=4.0m)																					
PROPOSED L-SHAPE GUTTER	L=199m		L=199m																			
ORIGINAL GROUND ELEV.	307.775	314.503	320.500	326.183	332.707	337.866	342.798	348.613	355.210	362.515	368.716	377.853	384.927	389.310	401.513	407.874	416.961	427.954	435.036	444.024	450.897	458.057
DISTANCE																						
ACCUMULATED DIST.	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100

- NOTES:
- ALL DIMENSIONS IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
  - ALL ELEVATIONS(EL.) ARE IN METER.



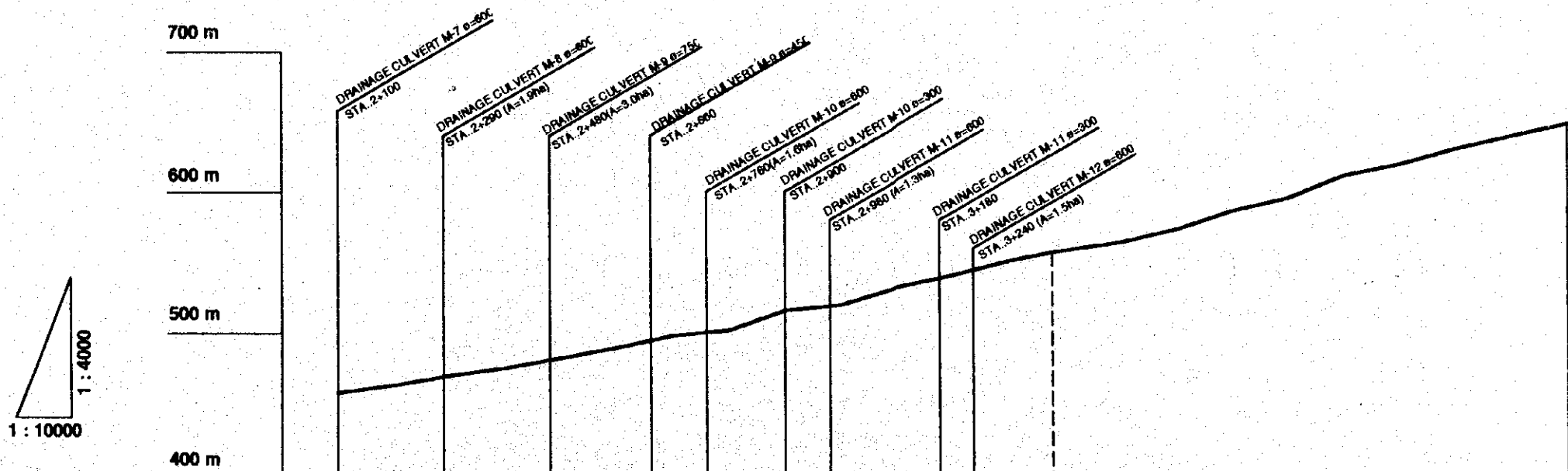
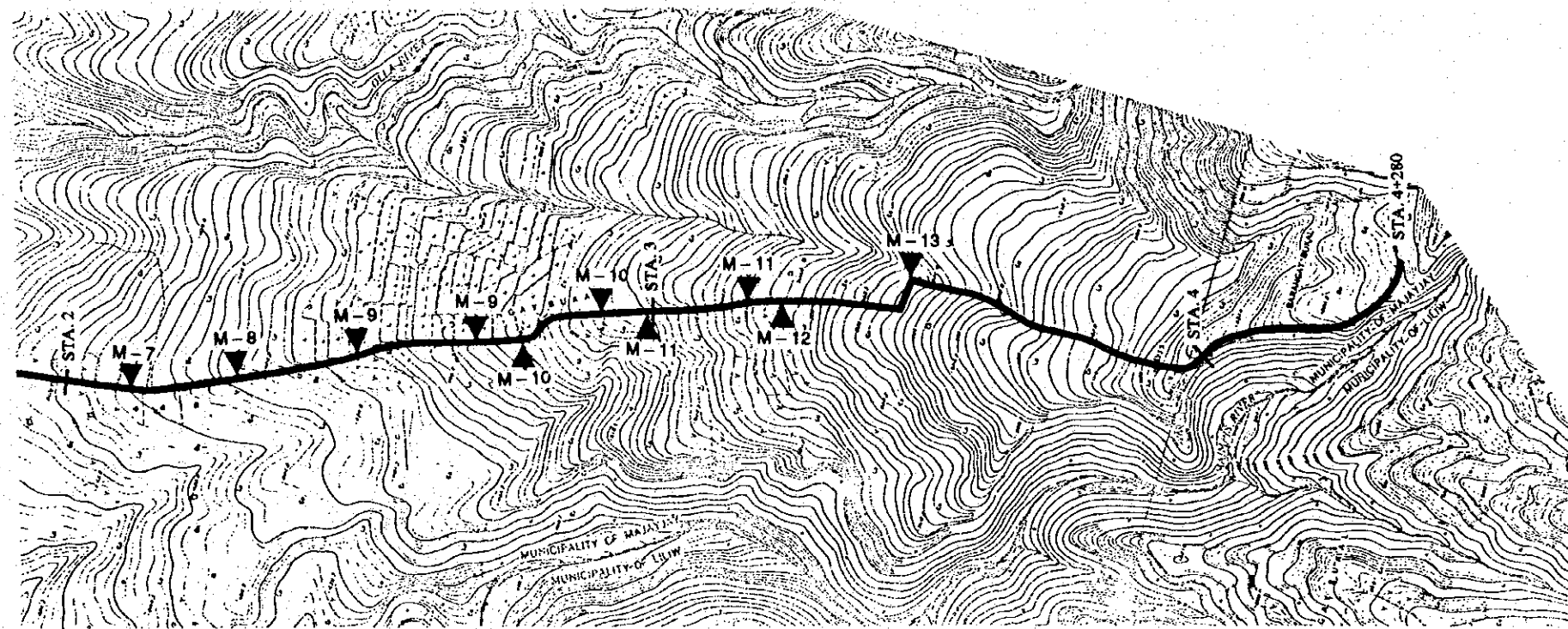
THE REPUBLIC OF THE PHILIPPINES

THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON

PLAN OF ROAD IMPROVEMENT (14/15) PANGIL - BUKAL ROAD OF MAJAYJAY

DRAWING NO. 7 SHEET 1 OF 2 PAGE 21

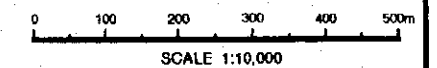
JAPAN INTERNATIONAL COOPERATION AGENCY



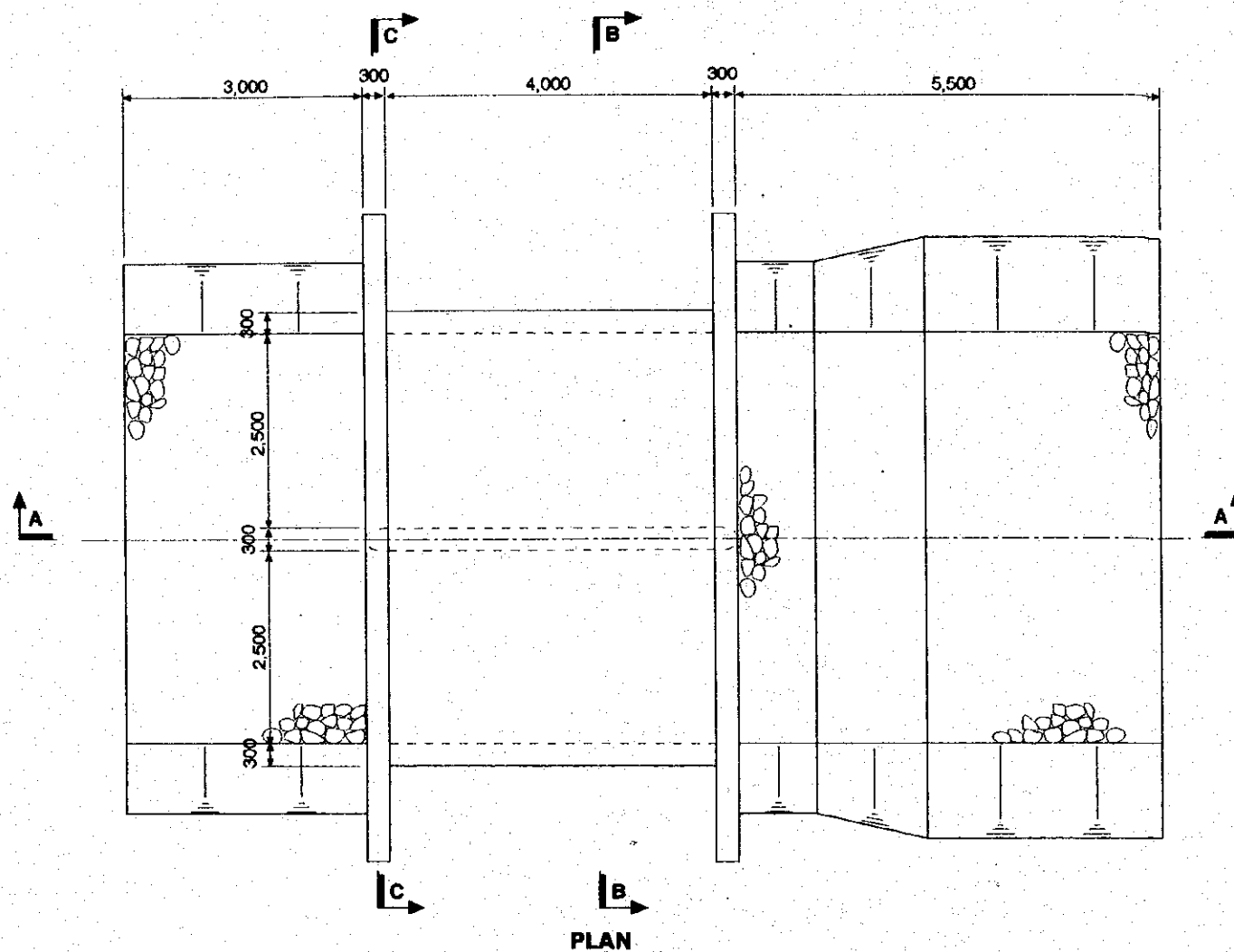
PROPOSED ROAD TYPE	TYPE 2 (W=4.0m)															TYPE 2 (W=4.0m)														
	STA. 0+387 - STA. 3+380 L=2983m															STA. 3+380 - STA. 4+280 L=900m														
PROPOSED L-SHAPE GUTTER																														
ORIGINAL GROUND ELEV.	458.057	463.312	468.813	475.475	482.308	488.428	498.288	501.784	515.815	520.077	532.108	540.827	550.842	557.883	556.842	564.000	573.000	586.000	596.000	611.000	618.000	630.000	638.000	648.000						
DISTANCE																														
ACCUMULATED DIST.	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3380	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300						
STATION	2+100	2+200	2+300	2+400	2+500	2+600	2+700	2+800	2+900	3+000	3+100	3+200	3+300	3+380	3+400	3+500	3+600	3+700	3+800	3+900	4+000	4+100	4+200	4+300						

NOTES:

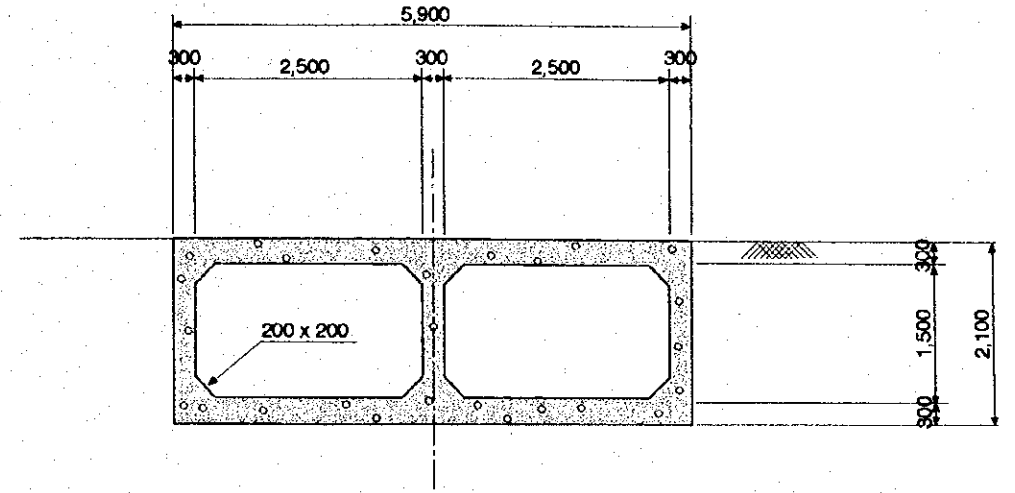
- ALL DIMENSIONS IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
- ALL ELEVATIONS(EL.) ARE IN METER.



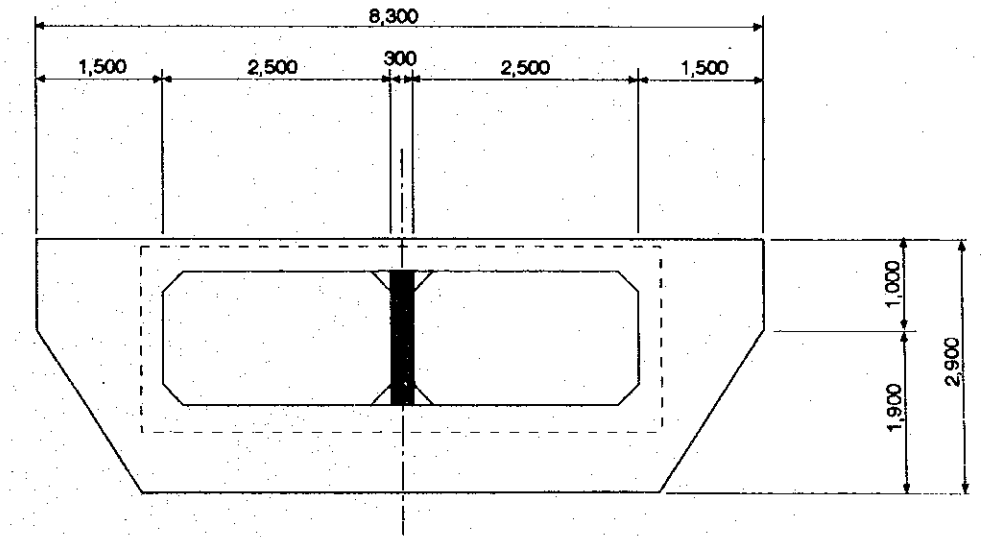
THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF ROAD IMPROVEMENT (15/15) PANGIL - BUKAL ROAD OF MAJAYJAY	
DRAWING NO.	SHEET 2 OF 2
7	PAGE 22
JAPAN INTERNATIONAL COOPERATION AGENCY	



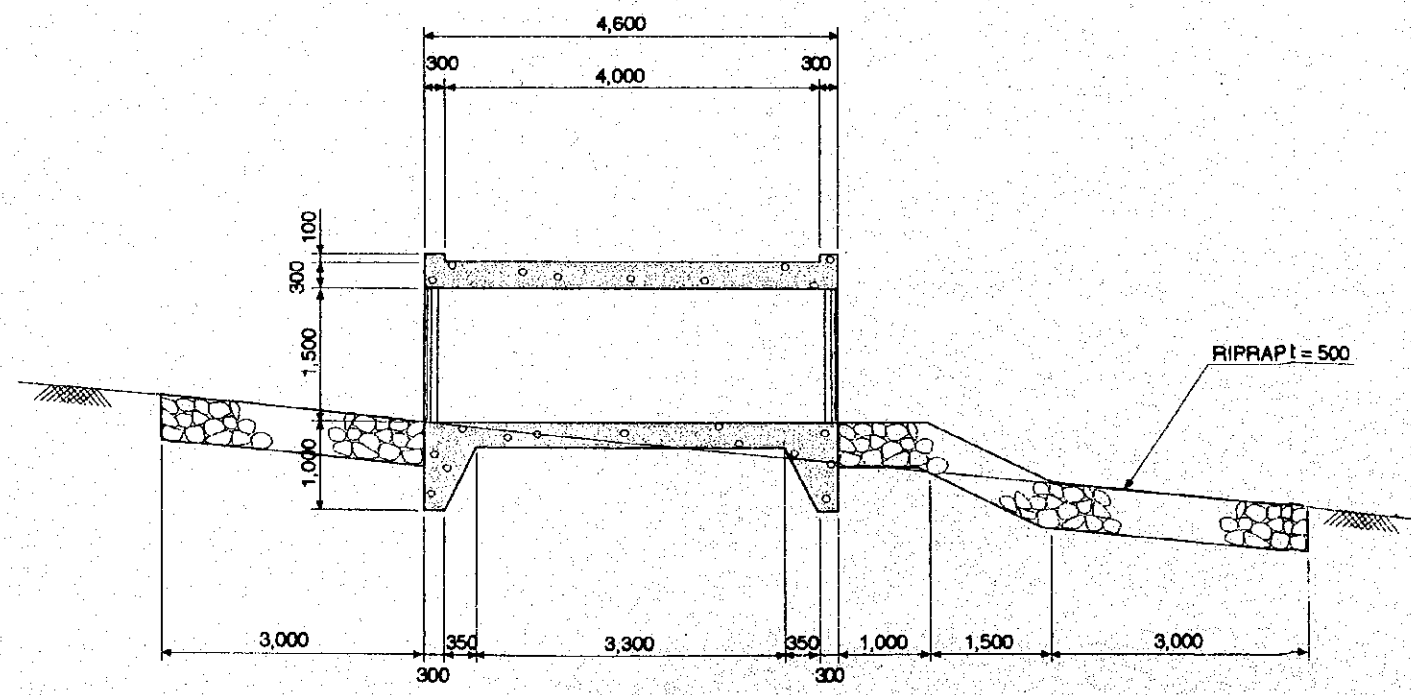
PLAN



SECTION B-B



SECTION C-C



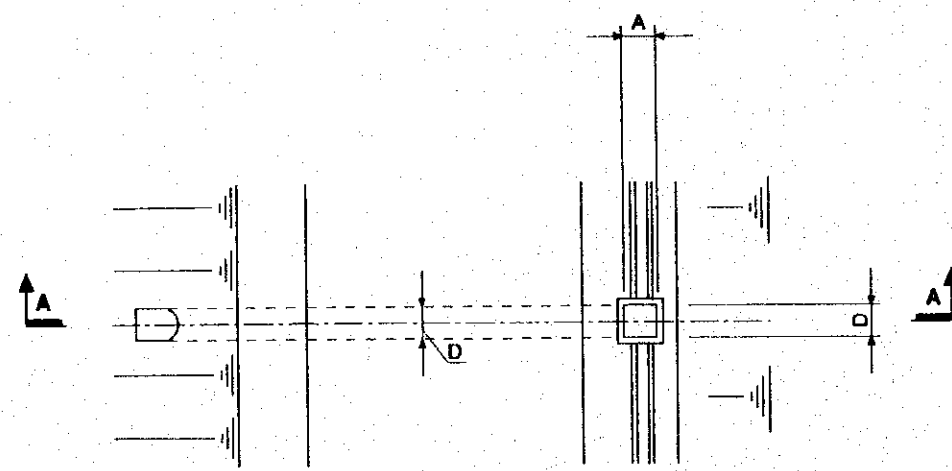
SECTION A-A

NOTES:

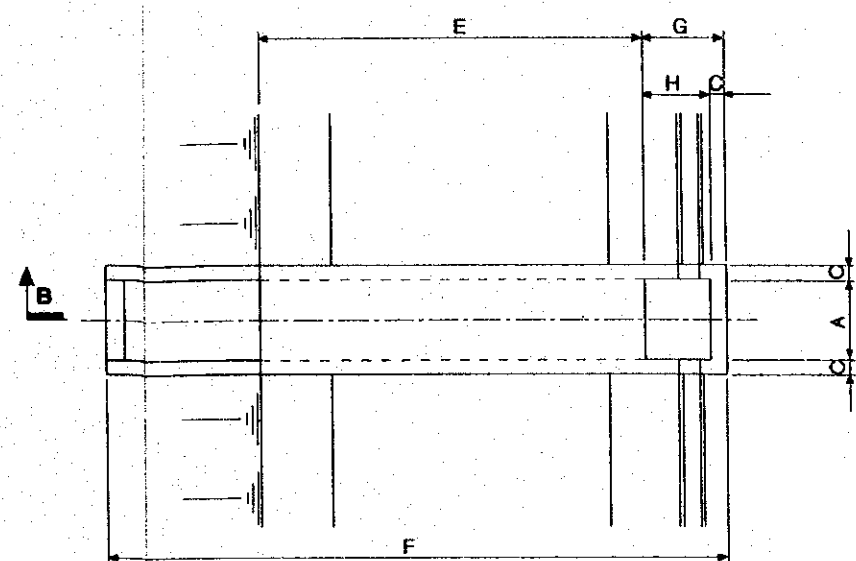
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
2. A COMPRESSIVE STRENGTH OF 210 kg/cm<sup>2</sup> FOR A REINFORCED CONCRETE, 180 kg/cm<sup>2</sup> FOR PLAIN CONCRETE, AND 135 kg/cm<sup>2</sup> FOR LEVELLING CONCRETE IS REQUIRED.
3. RIPRAP OF THE UPSTREAM AND DOWNSTREAM SHALL BE GROUTED.

THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF BRIDGE	
DRAWING NO.	SHEET 1 OF 1
8	PAGE 23
JAPAN INTERNATIONAL COOPERATION AGENCY	

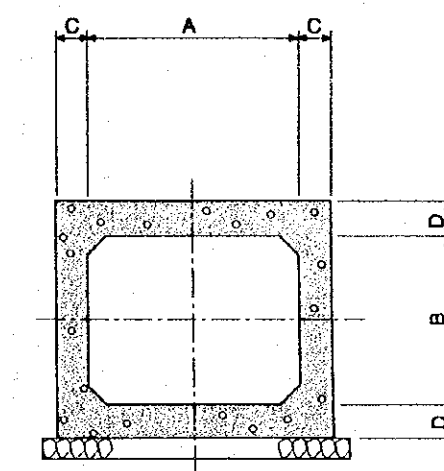




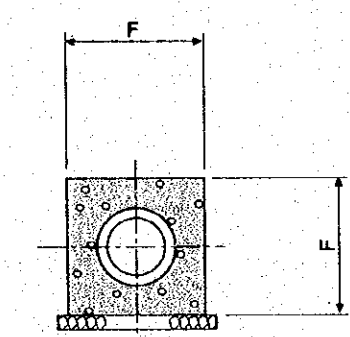
**DRAINAGE PIPE**



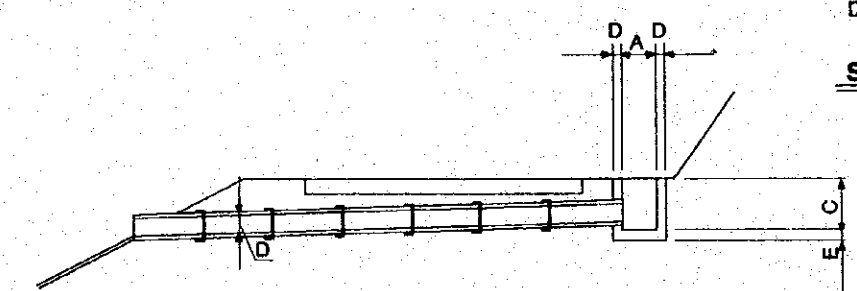
**DRAINAGE CULVERT**



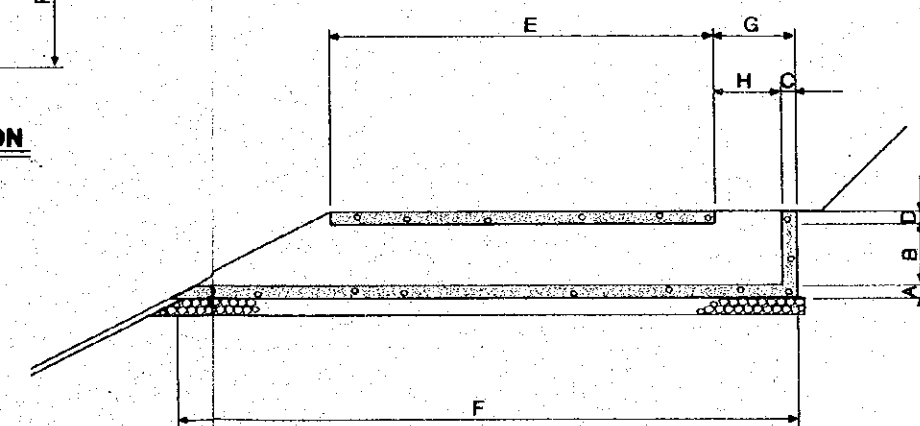
**STANDARD SECTION**



**STANDARD SECTION**



**SECTION A-A**



**SECTION B-B**

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
  2. A COMPRESSIVE STRENGTH OF 210 kg/cm<sup>2</sup> FOR A REINFORCED CONCRETE, 180 kg/cm<sup>2</sup> FOR PLAIN CONCRETE, AND 135 kg/cm<sup>2</sup> FOR LEVELLING CONCRETE IS REQUIRED.
  3. DRAINAGE CULVERTS SHALL BE CONSTRUCTED AT THE PLACE INDICATED BY THE SUPERVISOR CORRESPONDING TO THEIR OWN CATCHMENT AREAS. THE DIAMETER OF THE DRAINAGE CULVERT IS SHOWN BELOW.

**SCALE**

D	A	B	C	D	E	F
ø300	600	600	1000	100	100	600
ø450	750	750	1200	100	100	750
ø600	900	900	1200	100	100	900
ø750	1000	1000	1500	150	150	1050
ø900	1200	1200	1800	150	150	1200

**SCALE**

A	B	C	D	E	F	G	H
1200	900	200	200	5500	9500	1400	1200
1200	1500	200	200	5500	10700	1400	1200
1200	1500	200	200	5500	11000	1700	1500

DIAMETER OF CULVERT (mm)	CATCHMENT AREA (ha)
ø300	0.304
ø450	0.810
ø600	2.024
ø750	3.238
ø900	5.688
900*1500	11.117
1200*1500	16.136

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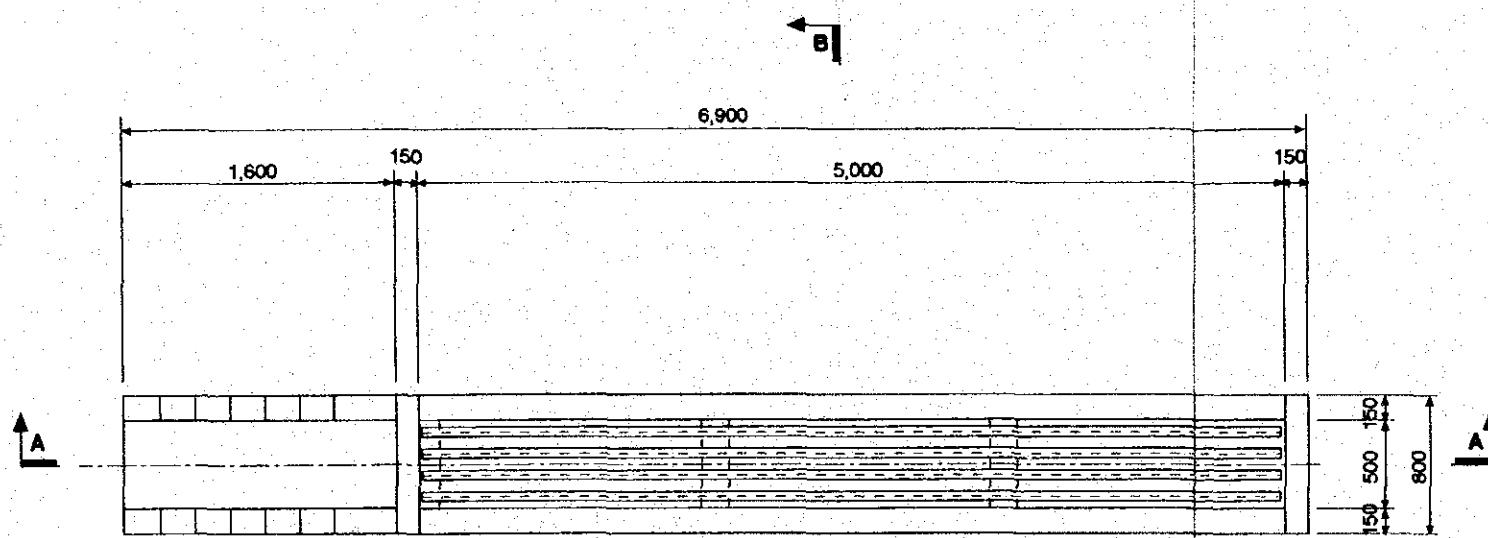
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON

PLAN OF CROSS DRAIN (TYPE. 1)

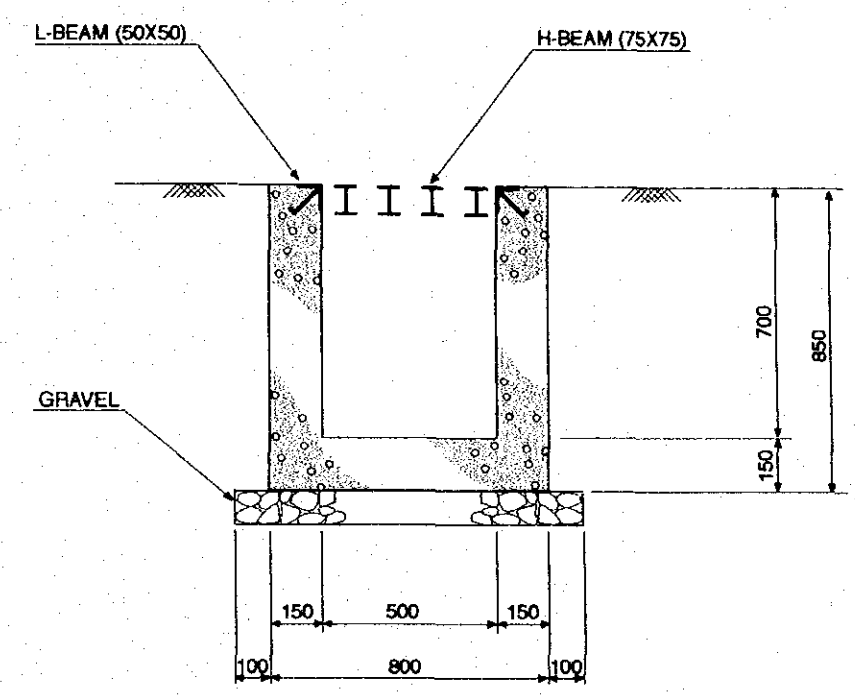
DRAWING NO. 8 SHEET 1 OF 2

PAGE 24

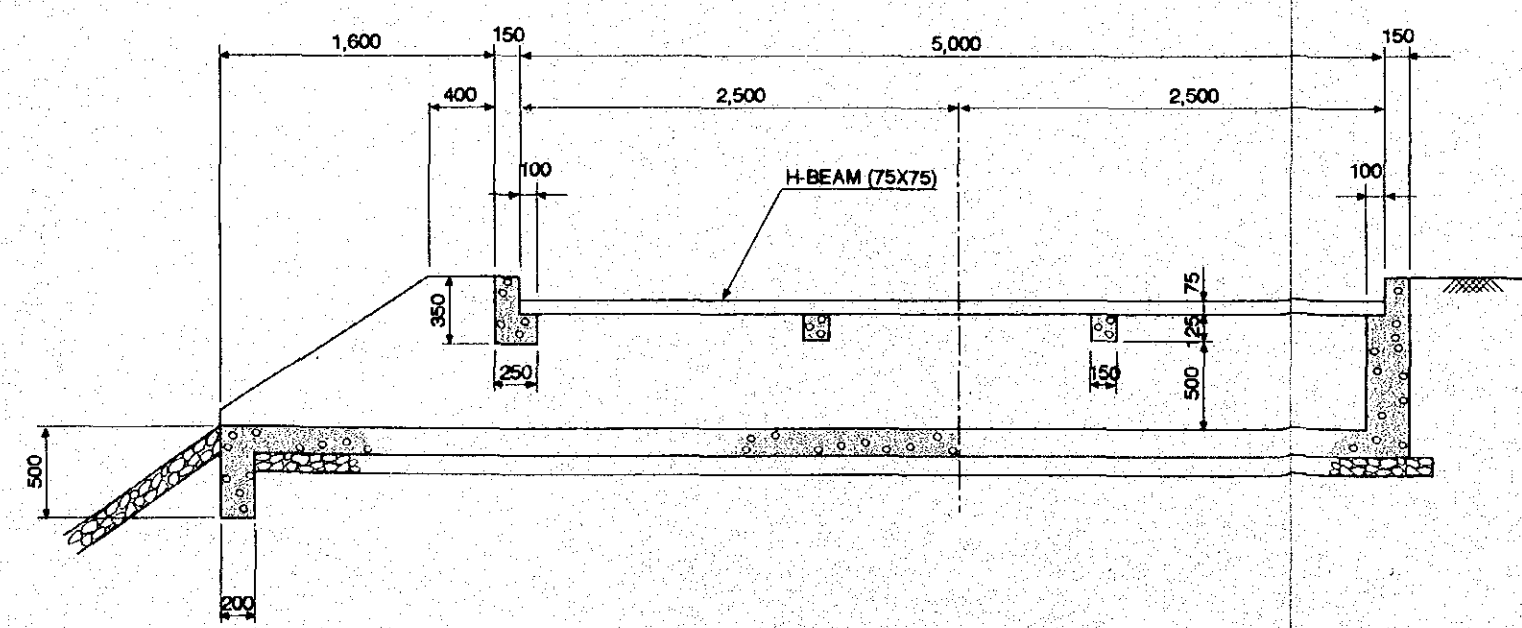
JAPAN INTERNATIONAL COOPERATION AGENCY



**PLAN**



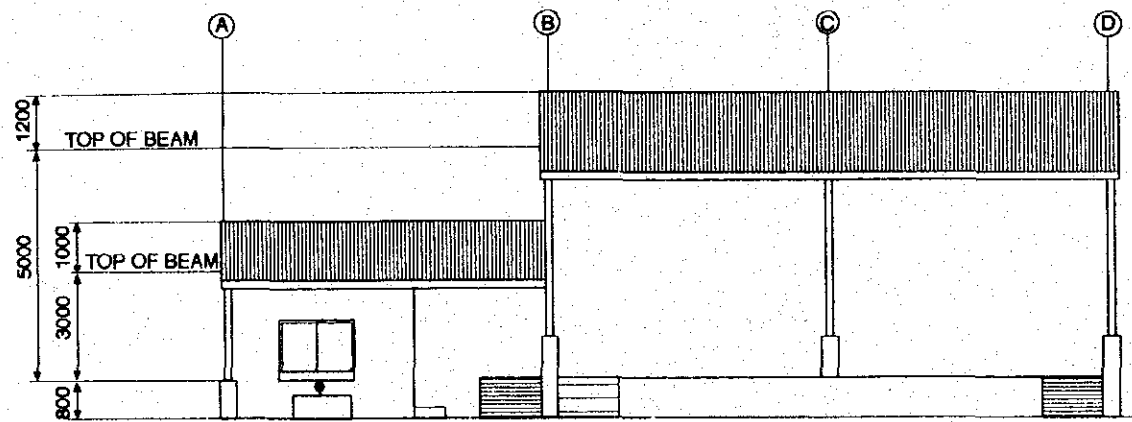
**SECTION B-B**



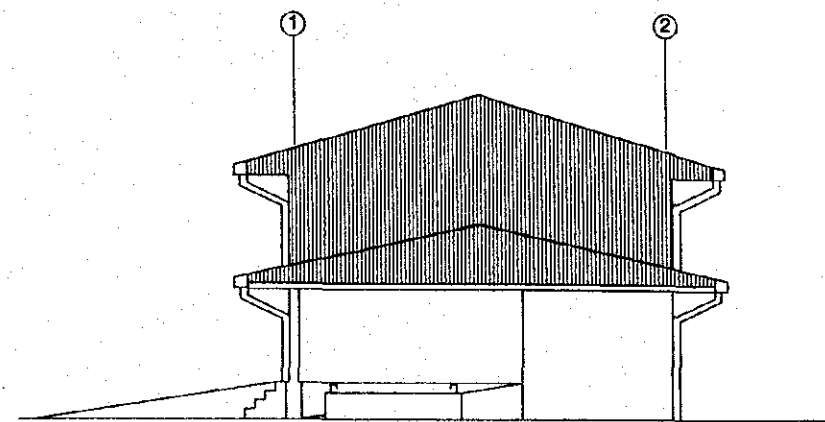
**SECTION A-A**

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
  2. A COMPRESSIVE STRENGTH OF 210 kg/cm<sup>2</sup> FOR A REINFORCED CONCRETE, 180 kg/cm<sup>2</sup> FOR PLAIN CONCRETE, AND 135 kg/cm<sup>2</sup> FOR LEVELLING CONCRETE IS REQUIRED.
  3. H-BEAM AND L-BEAM SHALL BE PLATED WITH HOT DIP GALVANIZING.

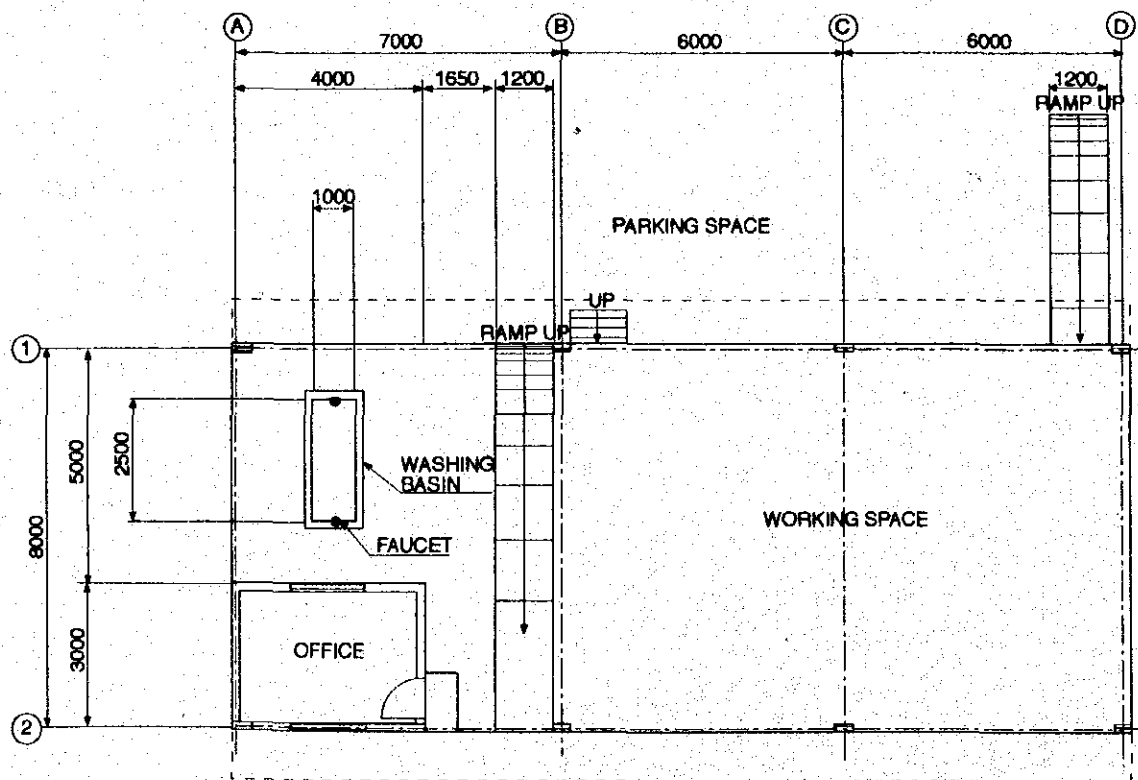
THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF CROSS DRAIN (TYPE. 2)	
DRAWING NO.	SHEET 2 OF 2
9	PAGE 25
JAPAN INTERNATIONAL COOPERATION AGENCY	



**FRONT ELEVATION**  
MTS

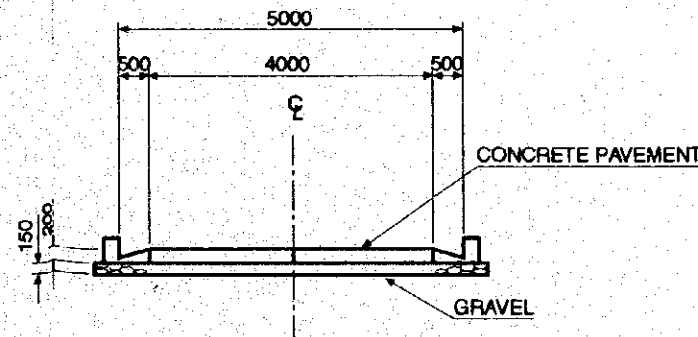
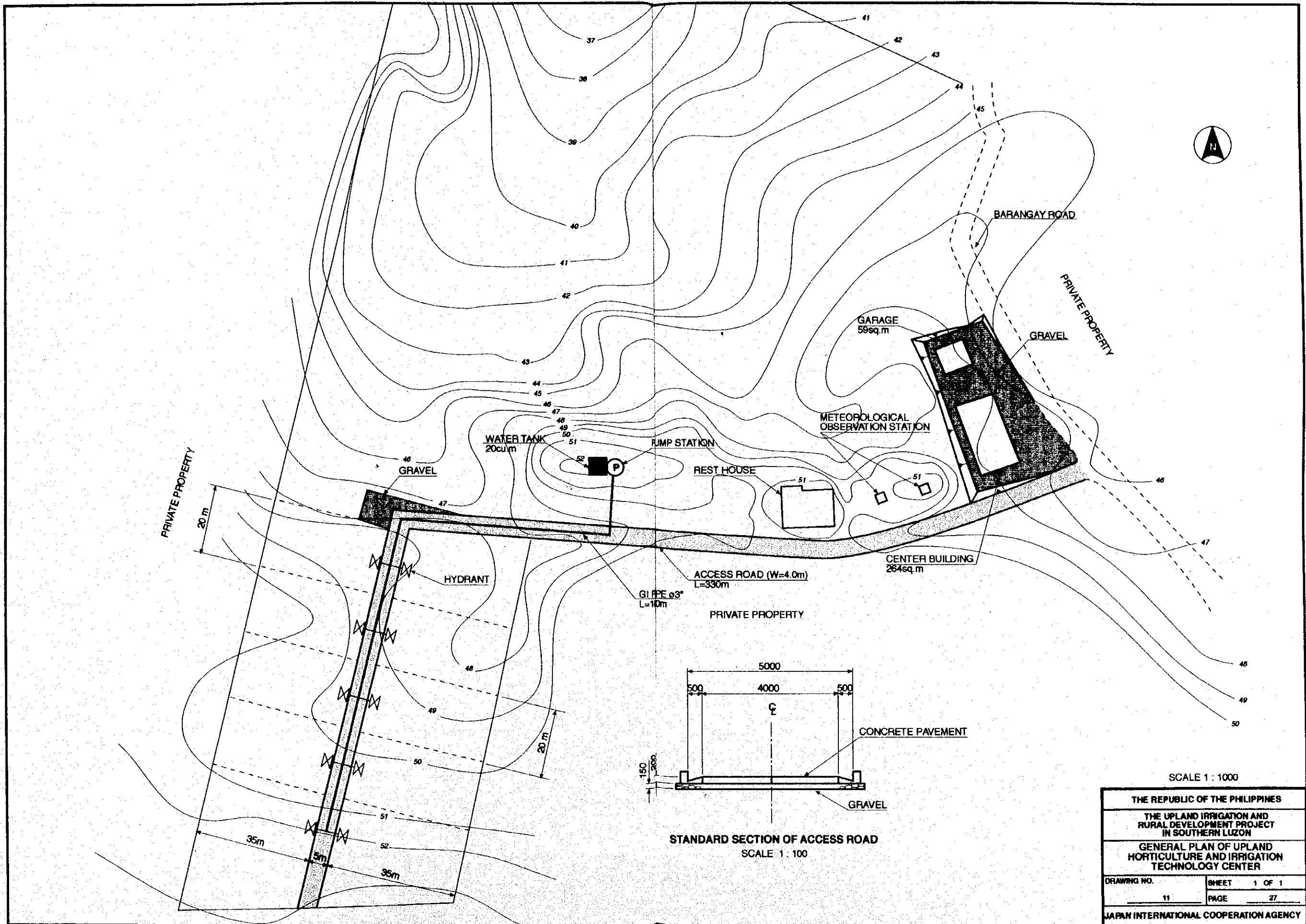


**LEFT SIDE OF ELEVATION**  
MTS



**TRADING POST FLOOR PLAN**  
MTS

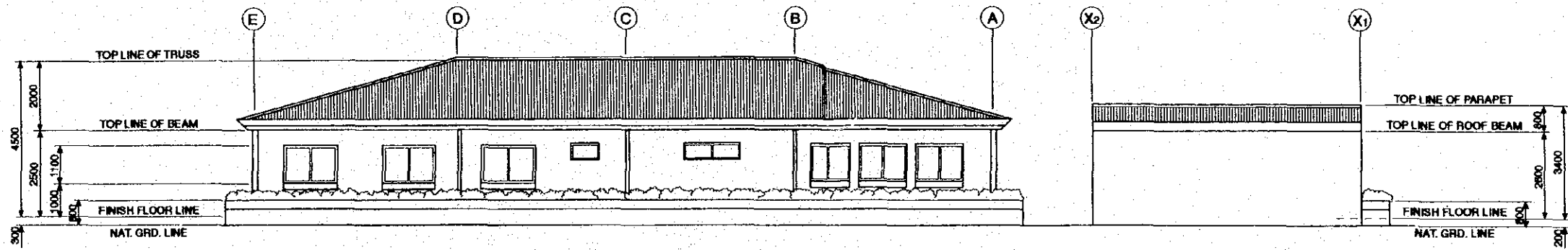
THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF TRADING POST	
DRAWING NO. 10	SHEET 1 OF 1 PAGE 28
JAPAN INTERNATIONAL COOPERATION AGENCY	



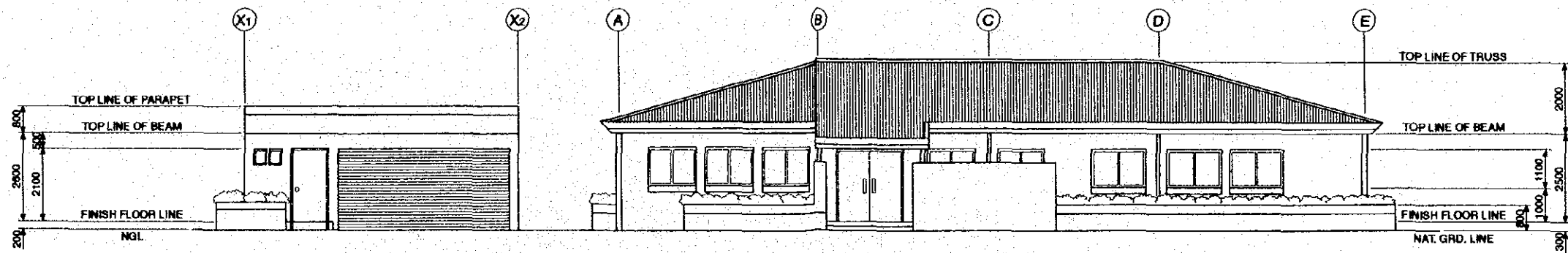
STANDARD SECTION OF ACCESS ROAD  
SCALE 1 : 100

SCALE 1 : 1000

THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
GENERAL PLAN OF UPLAND HORTICULTURE AND IRRIGATION TECHNOLOGY CENTER	
DRAWING NO.	SHEET 1 OF 1
11	PAGE 27
JAPAN INTERNATIONAL COOPERATION AGENCY	

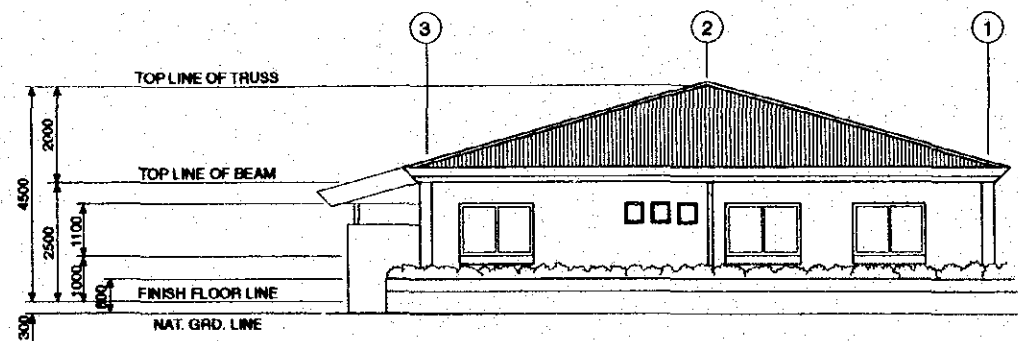


**REAR ELEVATION**  
MTS.

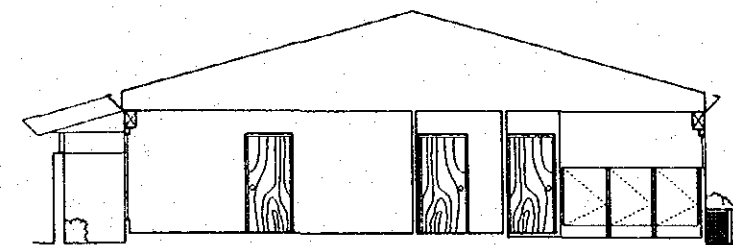


**FRONT ELEVATION**  
MTS.

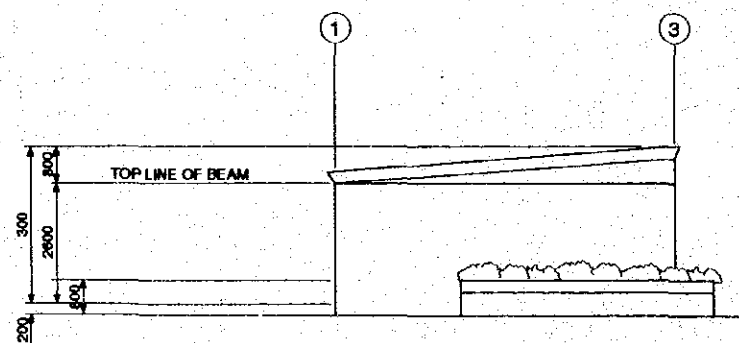
THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF UPLAND HORTICULTURE AND IRRIGATION TECHNOLOGY CENTER BUILDING (1/3)	
DRAWING NO.	SHEET 1 OF 3
12	PAGE 28
JAPAN INTERNATIONAL COOPERATION AGENCY	



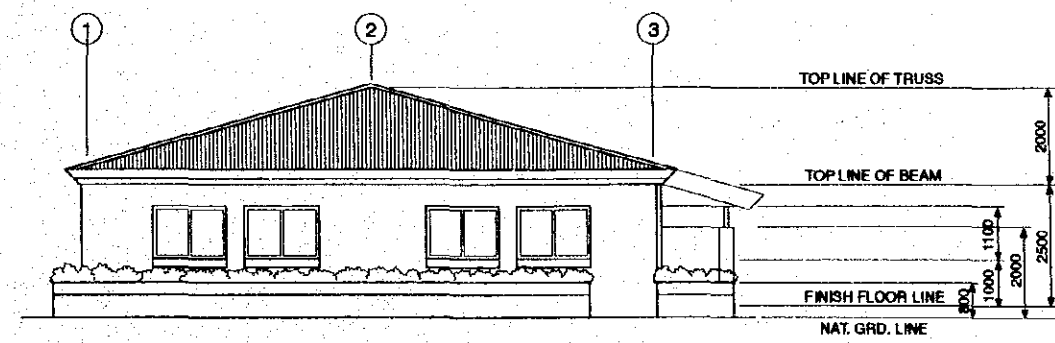
**RIGHT SIDE ELEVATION**  
MTS.



**SECTION**  
MTS.



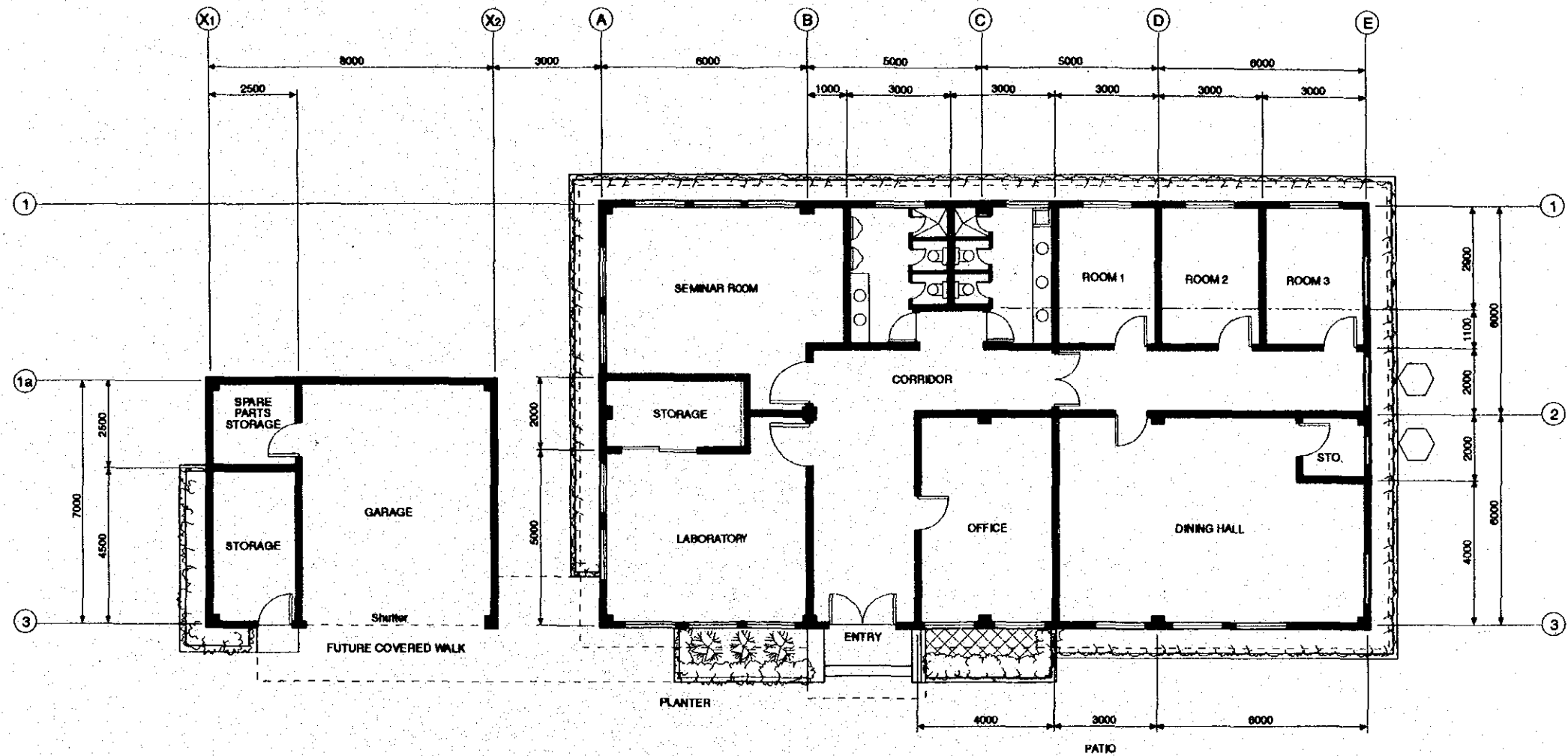
**GARAGE**



**TECHNOLOGY CENTER**

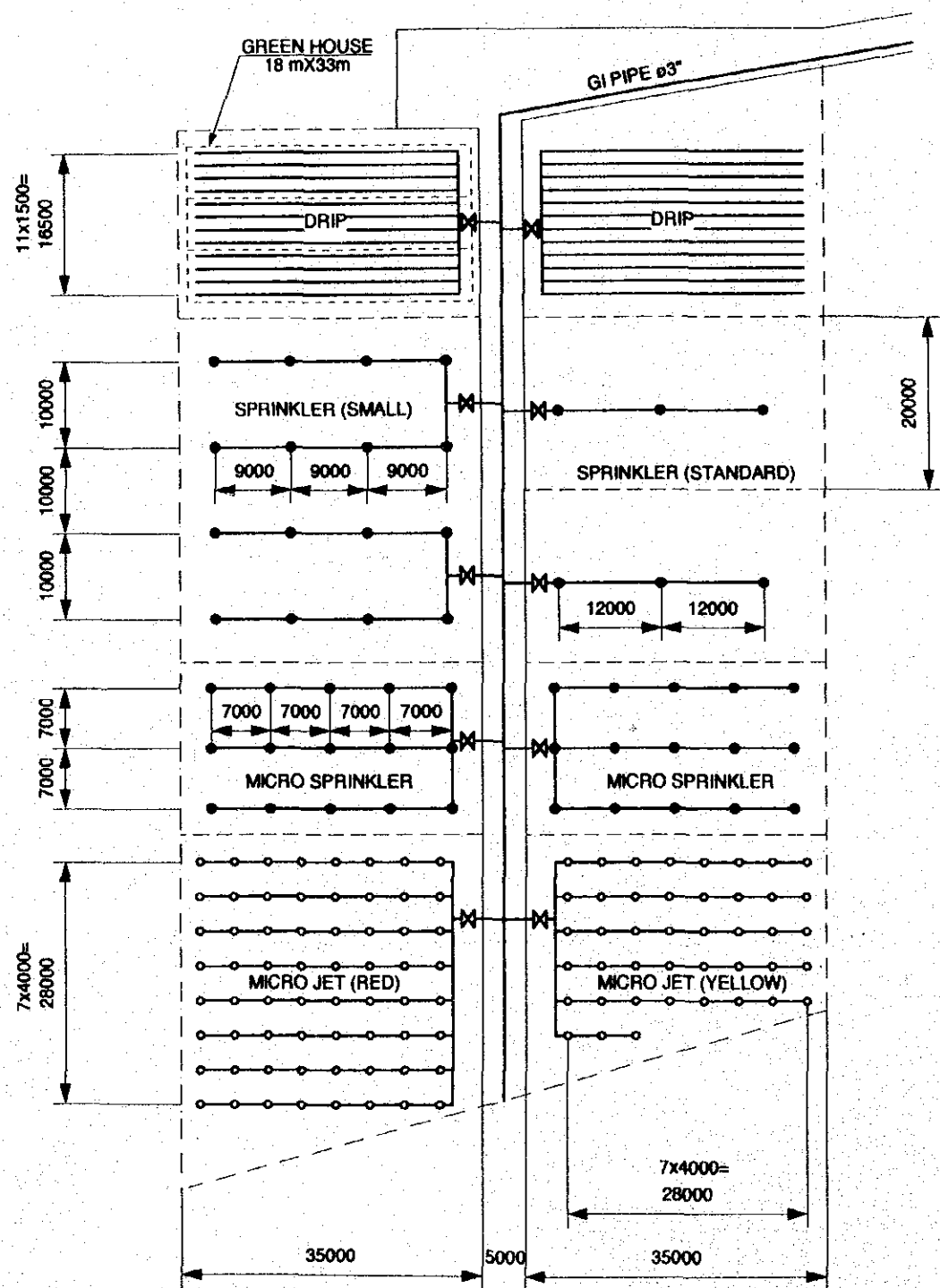
**LEFT SIDE ELEVATION**  
MTS.

THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF UPLAND HORTICULTURE AND IRRIGATION TECHNOLOGY CENTER BUILDING (2/3)	
DRAWING NO.	SHEET 2 OF 3
12	PAGE 29
JAPAN INTERNATIONAL COOPERATION AGENCY	

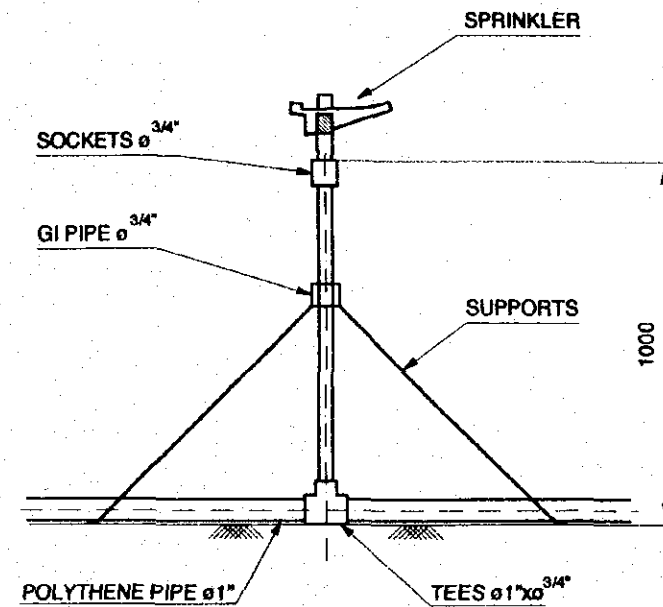


**GROUND FLOOR PLAN**  
MTS.

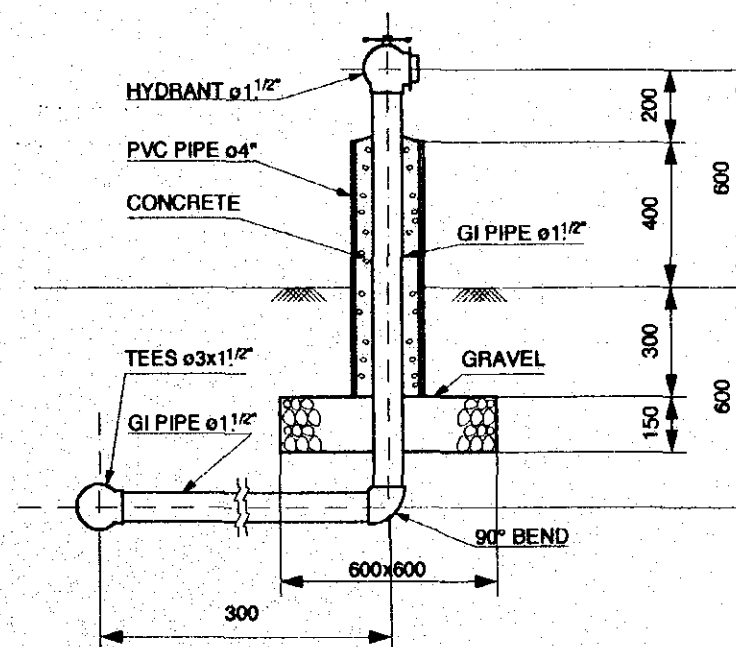
THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF UPLAND HORTICULTURE AND IRRIGATION TECHNOLOGY CENTER BUILDING (3/3)	
DRAWING NO.	SHEET 3 OF 3
12	PAGE 30
JAPAN INTERNATIONAL COOPERATION AGENCY	



ARRANGEMENT OF IRRIGATION INSTRUMENTS  
MTS



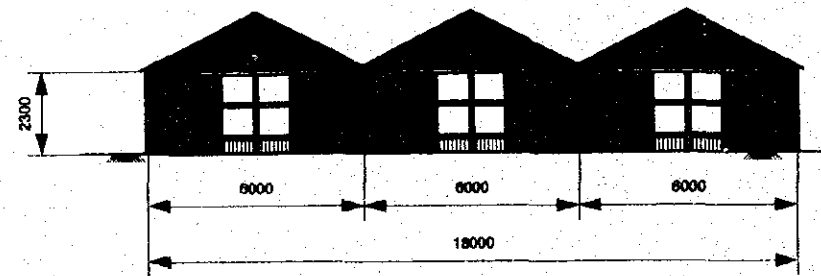
DETAIL OF SPRINKLER INSTALLATION  
SCALE 1 : 20



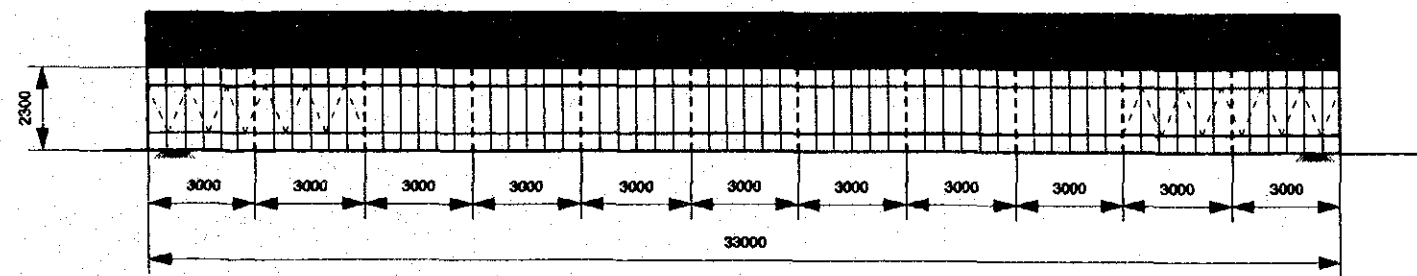
DETAIL OF HYDRANT INSTALLATION  
SCALE 1 : 20

THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF DEMONSTRATION FARM (1/3) ARRANGEMENT OF IRRIGATION INSTRUMENTS	
DRAWING NO.	SHEET 1 OF 3
13	PAGE 31
JAPAN INTERNATIONAL COOPERATION AGENCY	

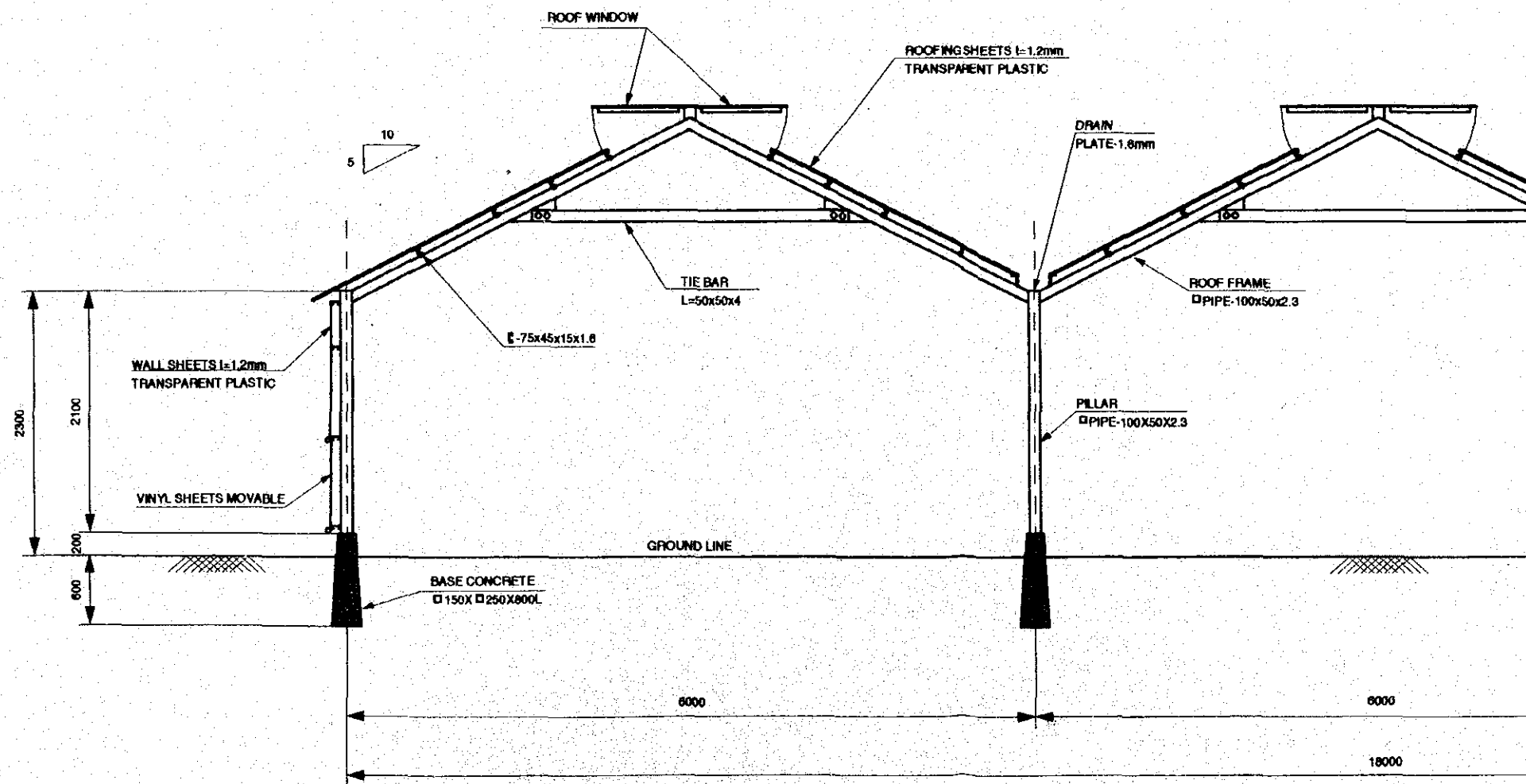




**FRONT ELEVATION**  
SCALE 1 : 200

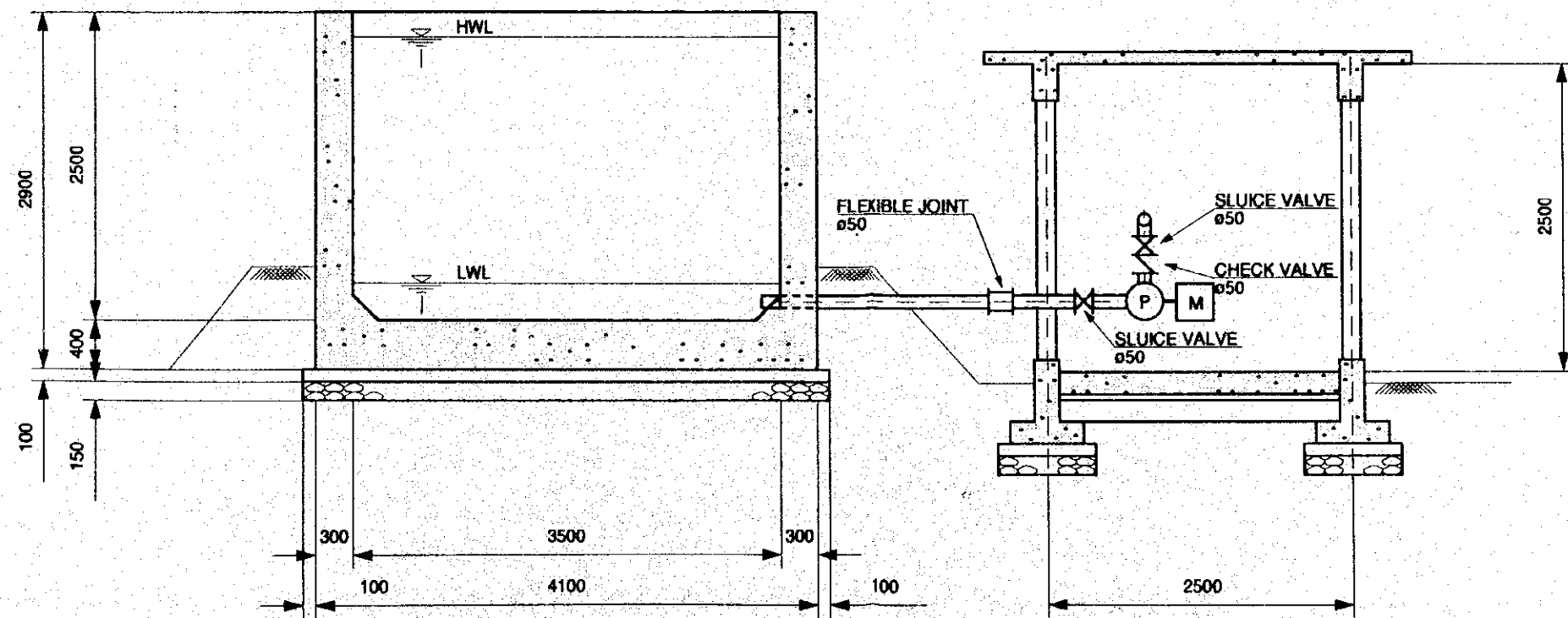
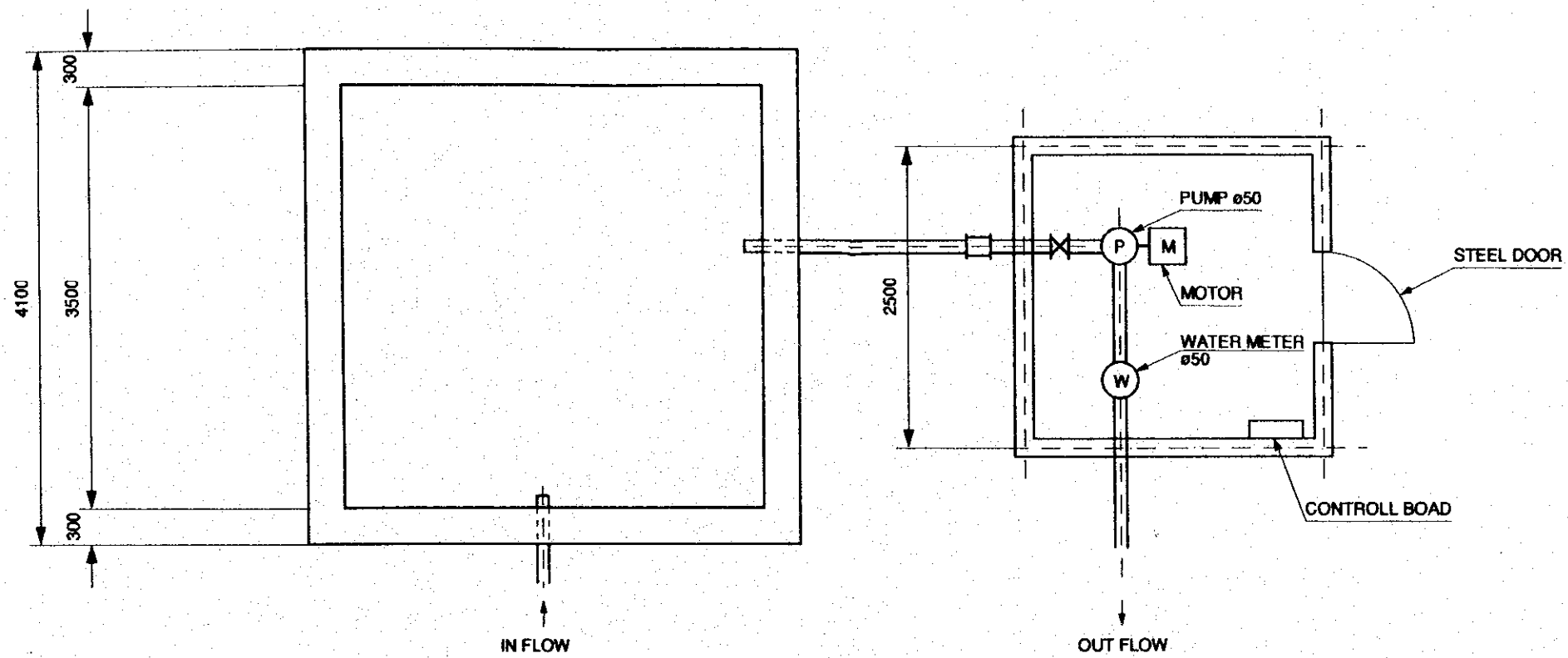


**SIDE ELEVATION**  
SCALE 1 : 200



**SECTION**  
SCALE 1 : 50

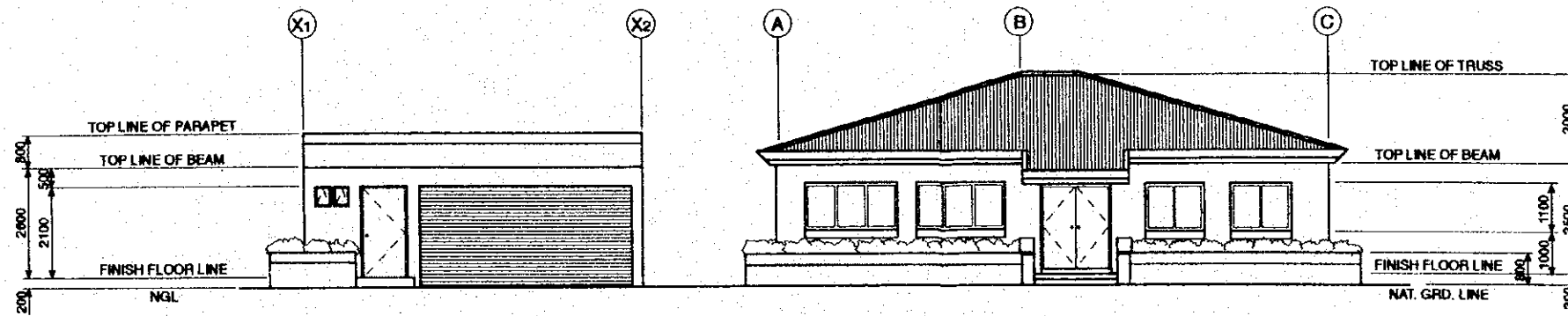
THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF DEMONSTRATION FARM (2/3) GREEN HOUSE	
DRAWING NO.	SHEET 2 OF 3
13	PAGE 32
JAPAN INTERNATIONAL COOPERATION AGENCY	



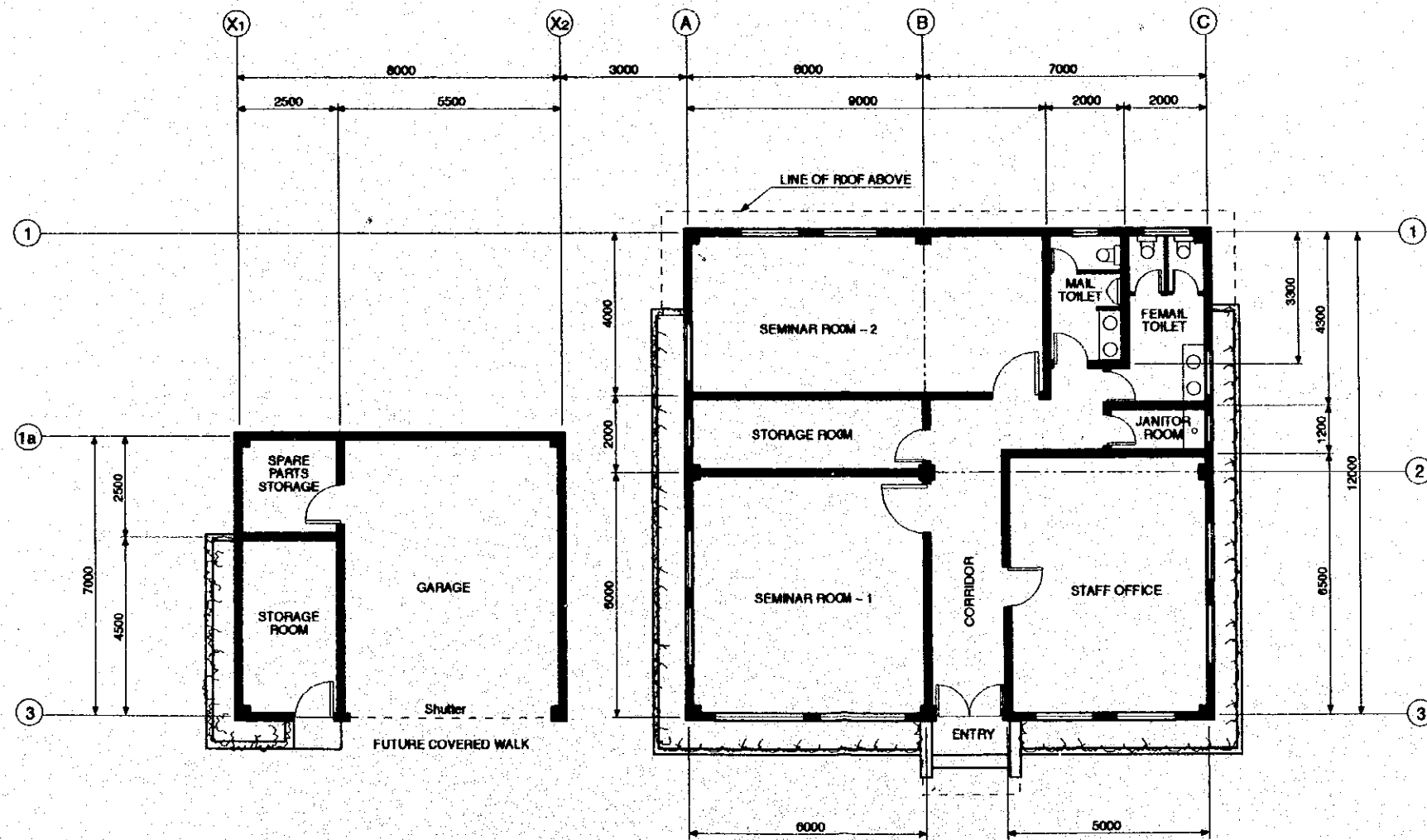
**SPECIFICATION OF PUMP**  
 PUMP CAPACITY : 162 lit/min  
 PUMP DIAMETER : 50 mm  
 PUMP HEAD : 30 m  
 MOTOR POWER : 2.2 kw

SCALE 1 : 50

THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF DEMONSTRATION FARM (3/3) WATER TANK AND PUMP STATION	
DRAWING NO.	SHEET 3 OF 3
13	PAGE 33
JAPAN INTERNATIONAL COOPERATION AGENCY	

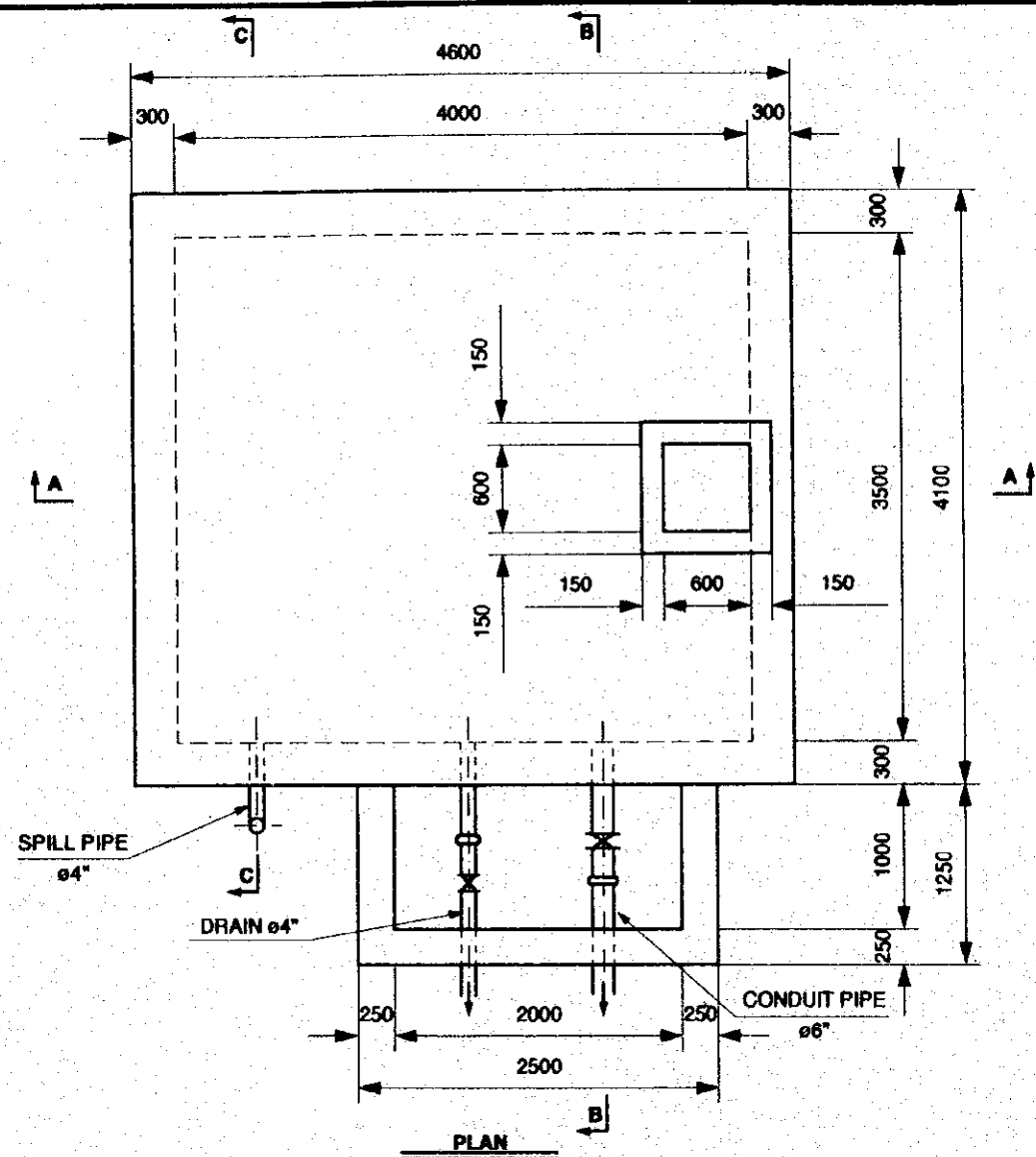


**FRONT ELEVATION**  
MTS.

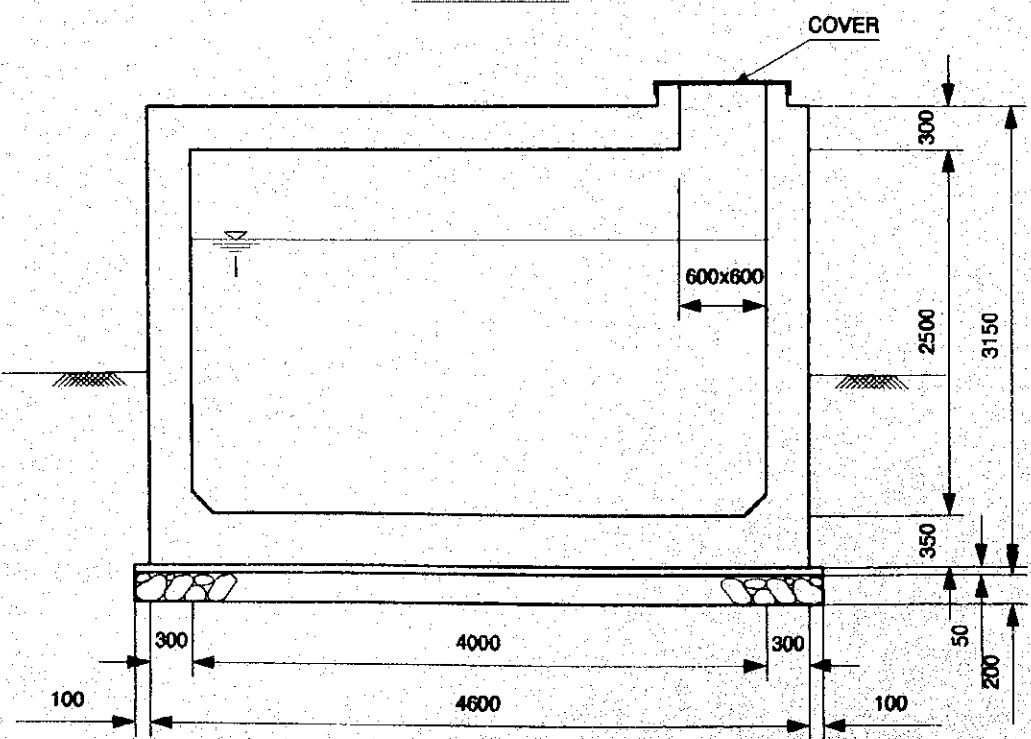


**GROUND FLOOR PLAN**  
MTS.

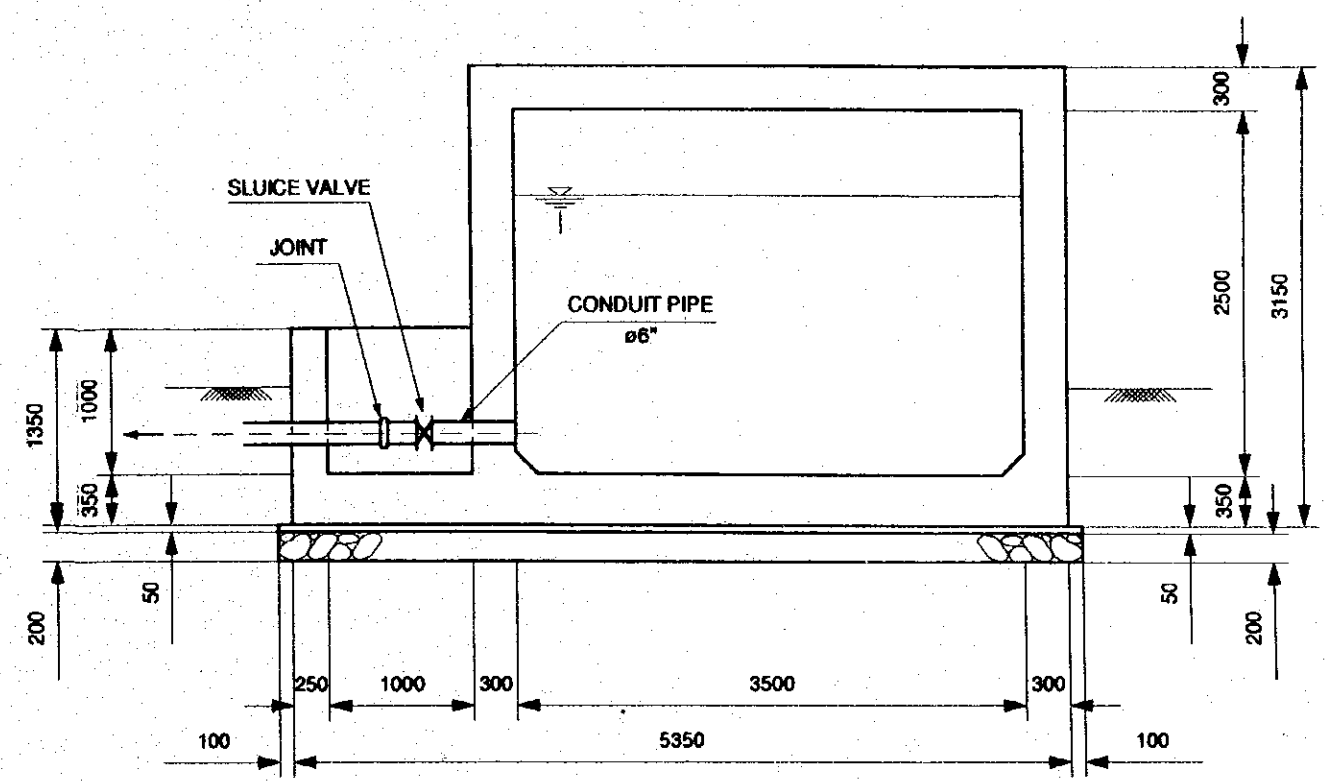
THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
PLAN OF SOIL CONSERVATION EXTENSION CENTER	
DRAWING NO. 14	SHEET 1 OF 1 PAGE 24
JAPAN INTERNATIONAL COOPERATION AGENCY	



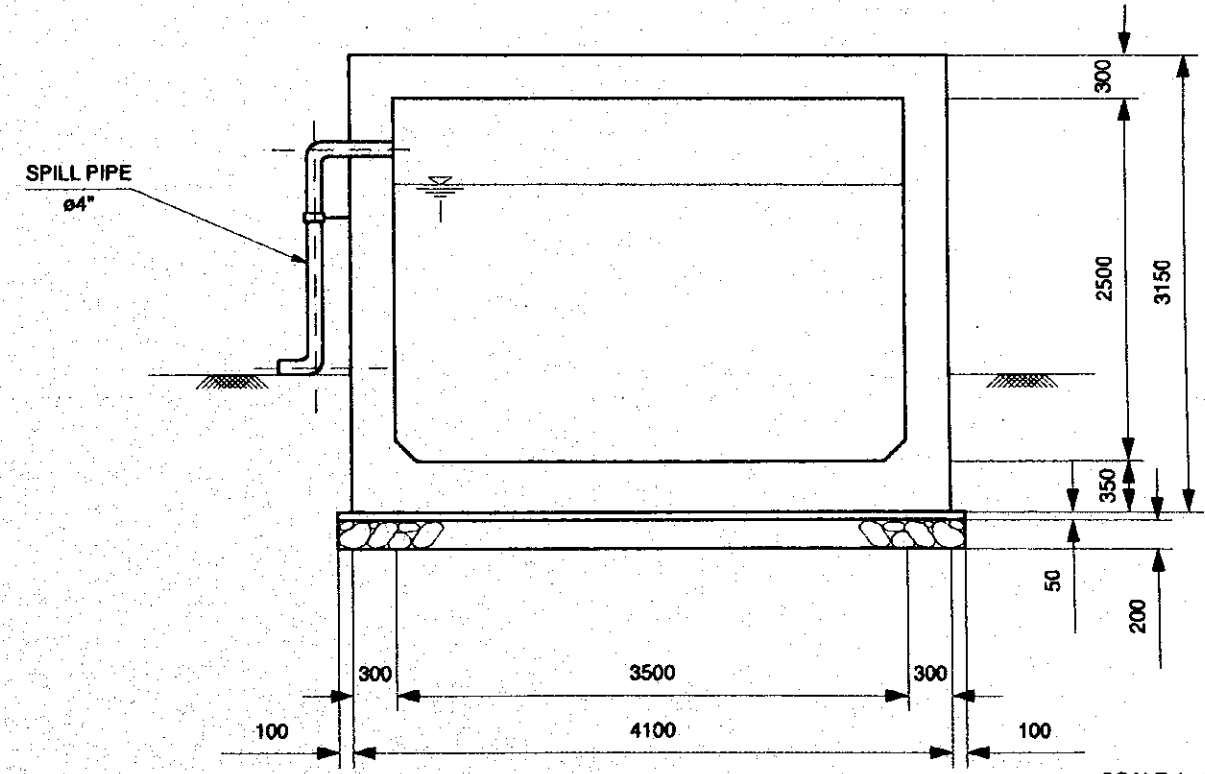
PLAN



SECTION A - A



SECTION B - B



SECTION C - C

SCALE 1 : 50

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
  2. A COMPRESSIVE STRENGTH OF 210 kg/cm<sup>2</sup> IS REQUIRED FOR A REINFORCED CONCRETE, 135 kg/cm<sup>2</sup> FOR LEVELLING CONCRETE.
  3. THE MAXIMUM SIZE OF AGGREGATES FOR CAST-IN-PLACE CONCRETE SHALL NOT BE LARGER THAN 25 MILLIMETERS.
  4. ALL MATERIALS (SCREEN, COVER, STEP) MADE OF STEEL SHALL BE PLATED WITH HOT DIP GALVANIZING.

THE REPUBLIC OF THE PHILIPPINES	
THE UPLAND IRRIGATION AND RURAL DEVELOPMENT PROJECT IN SOUTHERN LUZON	
REHABILITATION WORK OF RURAL WATER SUPPLY GAWANAN SPRINGS	
DRAWING NO.	SHEET 1 OF 1
15	PAGE 35
JAPAN INTERNATIONAL COOPERATION AGENCY	

JICA