

ABDULLAH DAENG SIRUA ROAD

1. GENERAL

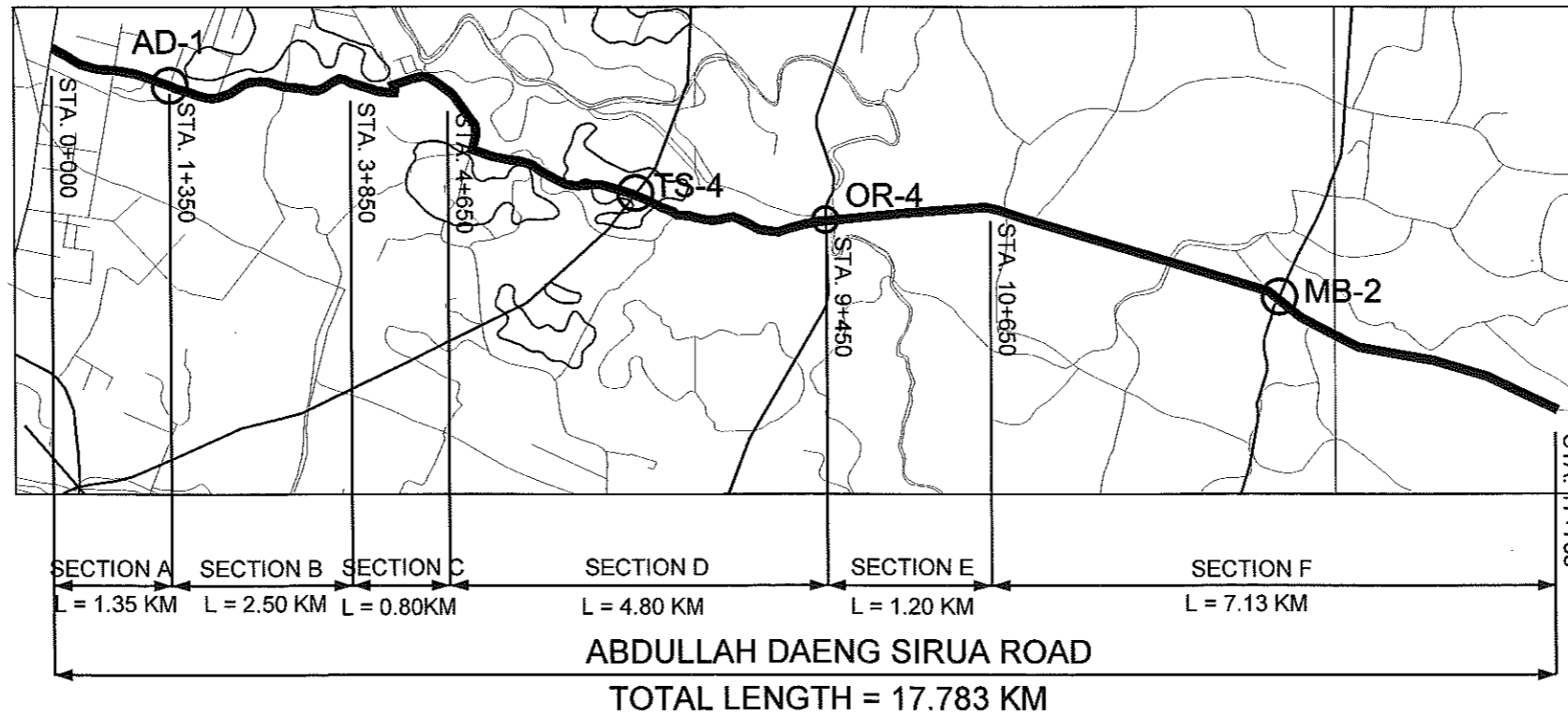
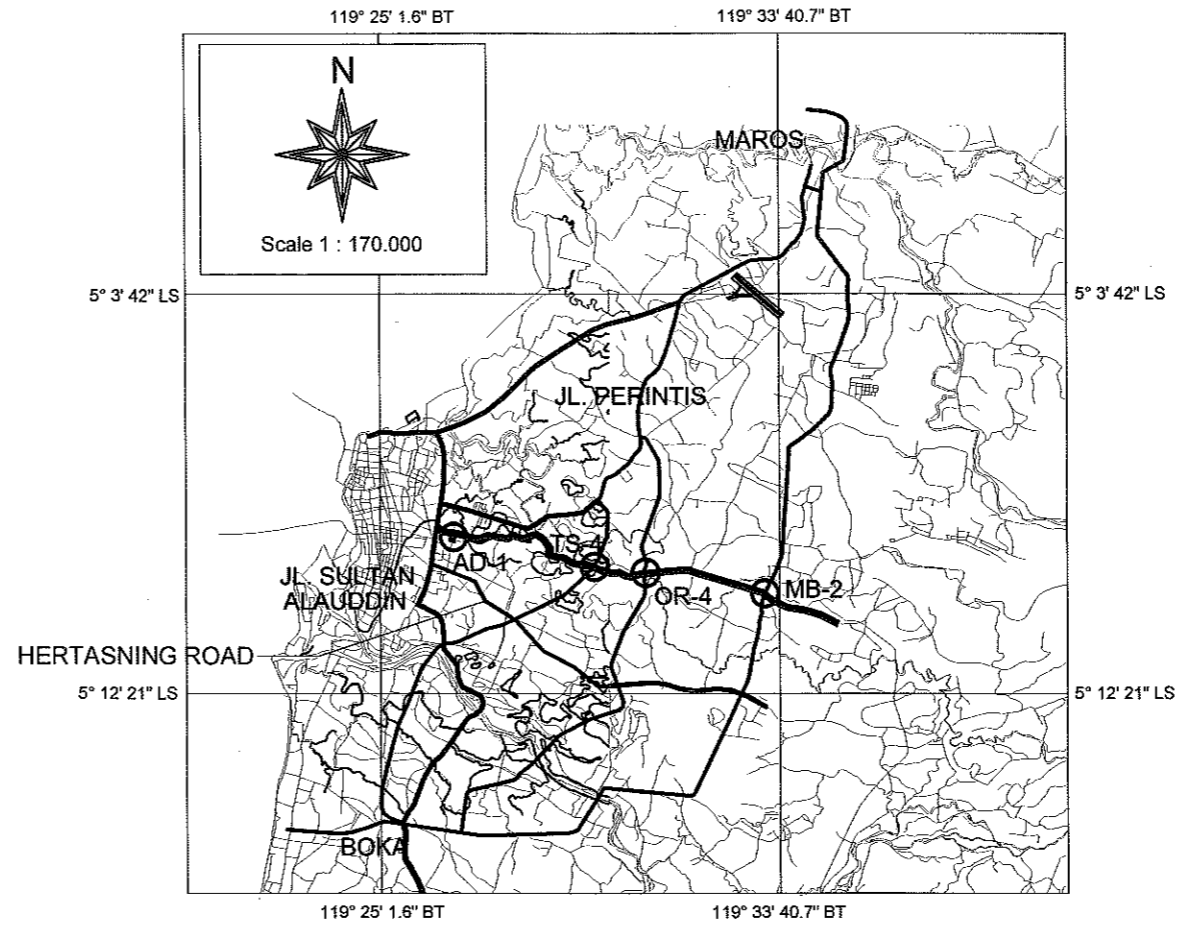
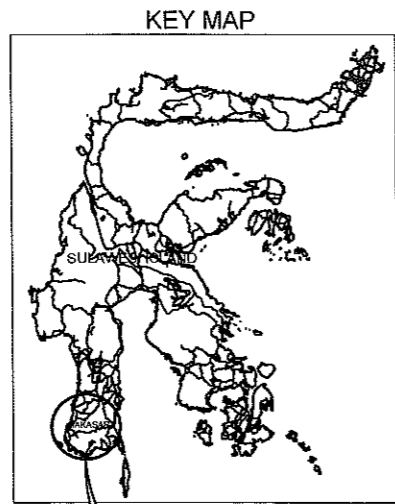
DRAWINGS INDEX - 3

(ABDULLAH DAEND SIRUA ROAD)

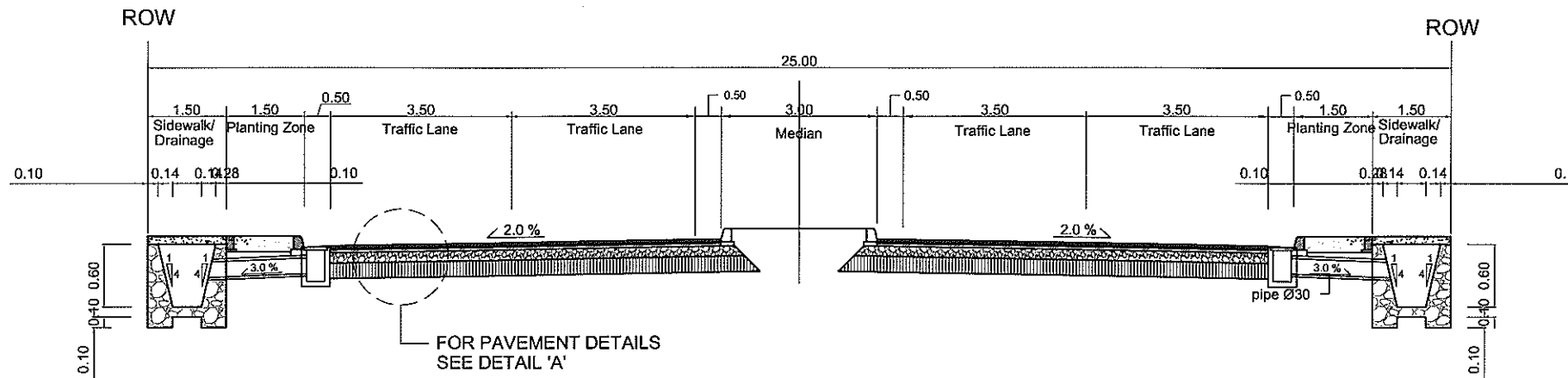
NO	DRAWING TITLE	DRAWING NO	REMARKS
1	GENERAL		
1.1	DRAWING INDEX	GE - 01	
1.2	LOCATION MAP	GE - 02	
2	TYPICAL CROSS SECTIONS		
2.1	TYPICAL CROSS SECTIONS	TC - 01	
3	ROADWAY - PLAN AND PROFILE		
3.1	PLAN AND PROFILE (1/11)	PP - 01	
3.2	PLAN AND PROFILE (2/11)	PP - 02	
3.3	PLAN AND PROFILE (3/11)	PP - 03	
3.4	PLAN AND PROFILE (4/11)	PP - 04	
3.5	PLAN AND PROFILE (5/11)	PP - 05	
3.6	PLAN AND PROFILE (6/11)	PP - 06	
3.7	PLAN AND PROFILE (7/11)	PP - 07	
3.8	PLAN AND PROFILE (8/11)	PP - 08	
3.9	PLAN AND PROFILE (9/11)	PP - 09	
3.10	PLAN AND PROFILE (10/11)	PP - 10	
3.11	PLAN AND PROFILE (11/11)	PP - 11	
4	ROADWAY - INTERSECTIONS		
4.1	TS - 4 ABDULLAH DAENG SIRUA / TRANS - SULAWESI	IN - 01	
4.2	MB - 2 ABDULLAH DAENG SIRUA / MAMMINASA BAYPASS	IN - 02	
4.3	OR - 4 ABDULLAH DAENG SIRUA / OUTERING ROAD	IN - 03	
4.4	AD - 1 BEGINNING OF ABDULLAH DAENG SIRUA	IN - 04	

NO	DRAWING TITLE	DRAWING NO	REMARKS
5	DRAINAGE AND STRUCTURES		
5.1	DETAILS OF DRAINAGE (1/2)	DR - 01	
5.2	DETAILS OF DRAINAGE (2/2)	DR - 02	
5.3	DETAILS OF CATCH PIT	DR - 03	
5.4	GENERAL LAYOUT OF SINGLE PIPE CULVERT	DR - 04	
5.5	GENERAL LAYOUT OF DOUBLE PIPE CULVERT	DR - 05	
5.6	INLET/OUTLET OF PIPE CULVERTS	DR - 06	
5.7	BOX CULVERT (1)	DR - 07	
5.8	BOX CULVERT (2)	DR - 08	
6	MISCELLANEOUS		
6.1	TRAFFIC SIGNS	MS - 01	
6.2	DETAIL OF TRAFFIC SIGN	MS - 02	
6.3	STANDARD OF GUARDRAIL	MS - 03	
6.4	STANDARD OF KILOMETER POS AND GUIDE POST	MS - 04	
6.5	MEDIAN, SIDEWALK AND PLANTING ZONE	MS - 05	
6.6	STANDARD OF ELECTRICAL POLE	MS - 06	
6.7	DETAIL FOUNDATION FOR ELECTRICAL POLE	MS - 07	
6.8	TRAFFIC SIGNAL (1/2)	MS - 08	
6.9	TRAFFIC SIGNAL (2/2)	MS - 09	

LOCATION MAP



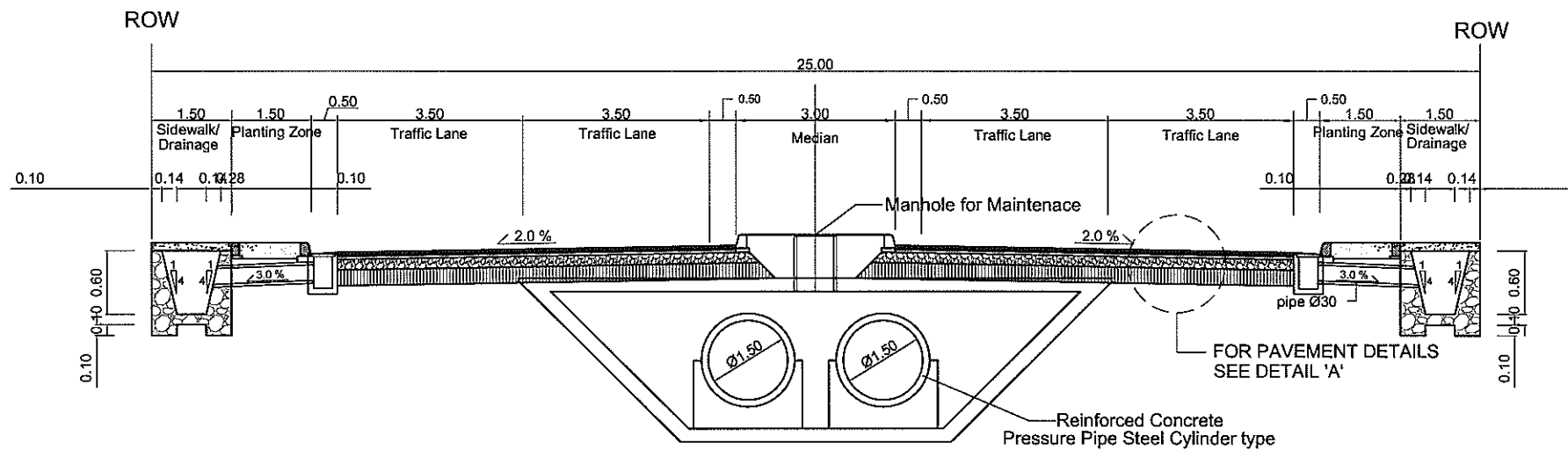
2. TYPICAL CROSS SECTIONS



TYPE-A1 (W=25.00 M)

STA. 1+225 - STA.1+900
 STA. 4+800 - STA.4+950
 STA. 6+075 - STA.17+783

FOR PAVEMENT DETAILS
 SEE DETAIL 'A'



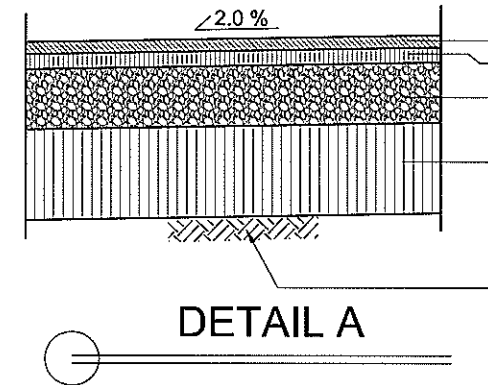
TYPE-A2 (W=25.00 M)

STA. 4+400 - STA.4+800
 STA. 4+950 - STA.6+075

Note : Parking space for water pipes maintenance
 vehicle shall be install at appropriate locations.

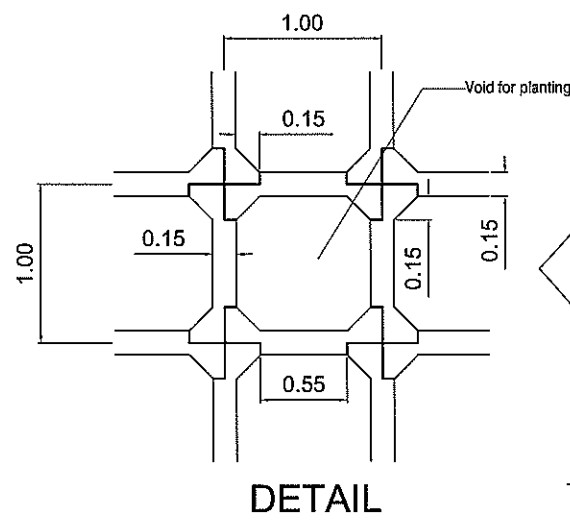
FOR PAVEMENT DETAILS
 SEE DETAIL 'A'

Reinforced Concrete
 Pressure Pipe Steel Cylinder type

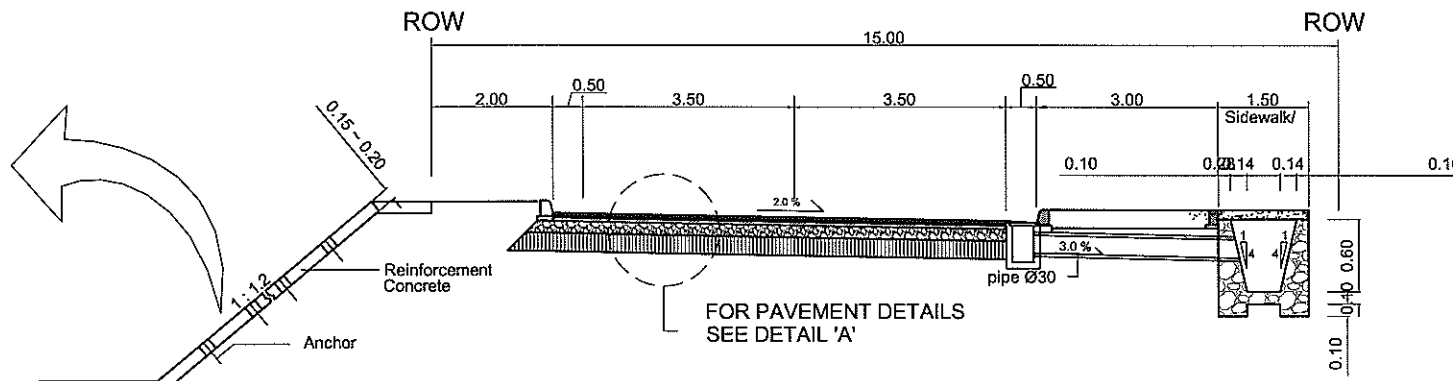


4 CM AC-WEARING
 6 CM AC-BINDER
 20 CM CLASS A BASE
 30 CM CLASS B BASE
 SUBGRADE CBR ≥ 8%

DETAIL A



DETAIL



TYPE-B (W=15.00 M)

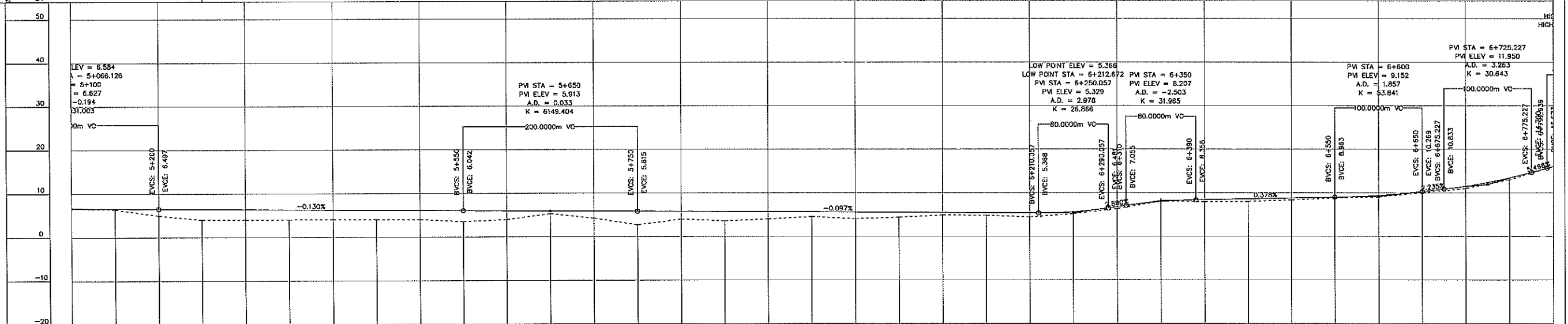
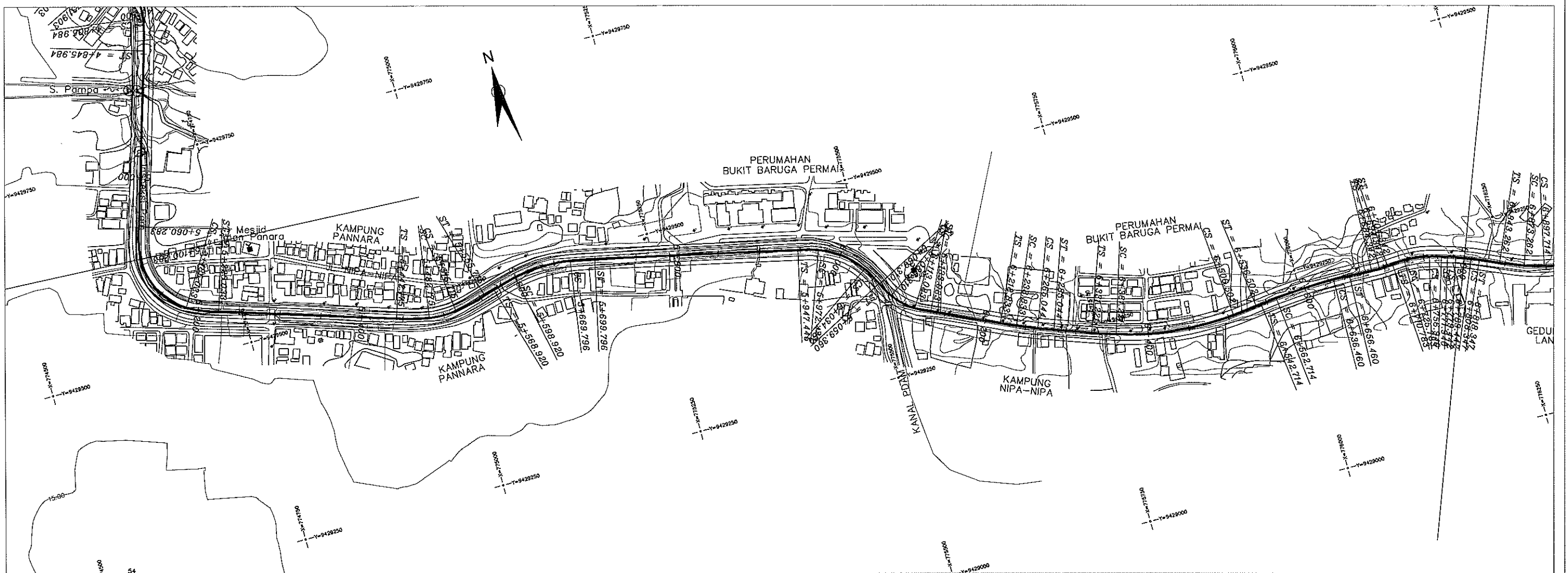
STA. 3+850 - STA.4+400

FOR PAVEMENT DETAILS
 SEE DETAIL 'A'

Reinforcement
 Concrete

Anchor

3. ROADWAY - PLAN AND PROFILE



PROPOSED HEIGHT	EXISTING GROUND HEIGHT	STATION	HORIZONTAL ALIGNMENT
6.578	6.627	5+100	R=80
6.550	6.386	5+150	R=00
6.497	4.963	5+200	R=125
6.432	4.000	5+250	R=00
6.367	4.000	5+300	R=200
6.302	4.000	5+350	R=00
6.237	4.000	5+400	R=100
6.172	4.000	5+450	R=00R=80
6.107	4.000	5+500	R=00
6.042	3.515	5+550	R=500
5.980	3.968	5+600	R=00
5.921	5.313	5+650	R=00
5.866	4.245	5+700	R=00
5.815	2.691	5+750	R=00
5.767	4.000	5+800	R=00
5.718	3.572	5+850	R=00
5.669	4.000	5+900	R=00
5.621	4.528	5+950	R=00
5.572	4.038	6+000	R=00
5.523	4.380	6+050	R=00
5.475	4.875	6+100	R=00
5.426	4.810	6+150	R=00
5.377	4.434	6+200	R=00
5.626	5.153	6+250	R=00
6.767	6.333	6+300	R=00
7.957	8.056	6+350	R=00
8.396	7.952	6+400	R=00
8.585	8.005	6+450	R=00
8.774	8.353	6+500	R=00
8.963	8.785	6+550	R=00
9.384	9.000	6+600	R=00
10.289	10.000	6+650	R=00
11.487	10.988	6+700	R=00
13.416	13.000	6+750	R=00
16.046	16.000	6+800	R=00

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

NIPPON KOEI CO., LTD. JOINT VENTURE WITH **KRI** INTERNATIONAL Corporation **ALMEC** ALMEC Corporation

PROJECT TITLE:
 THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND
 FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA

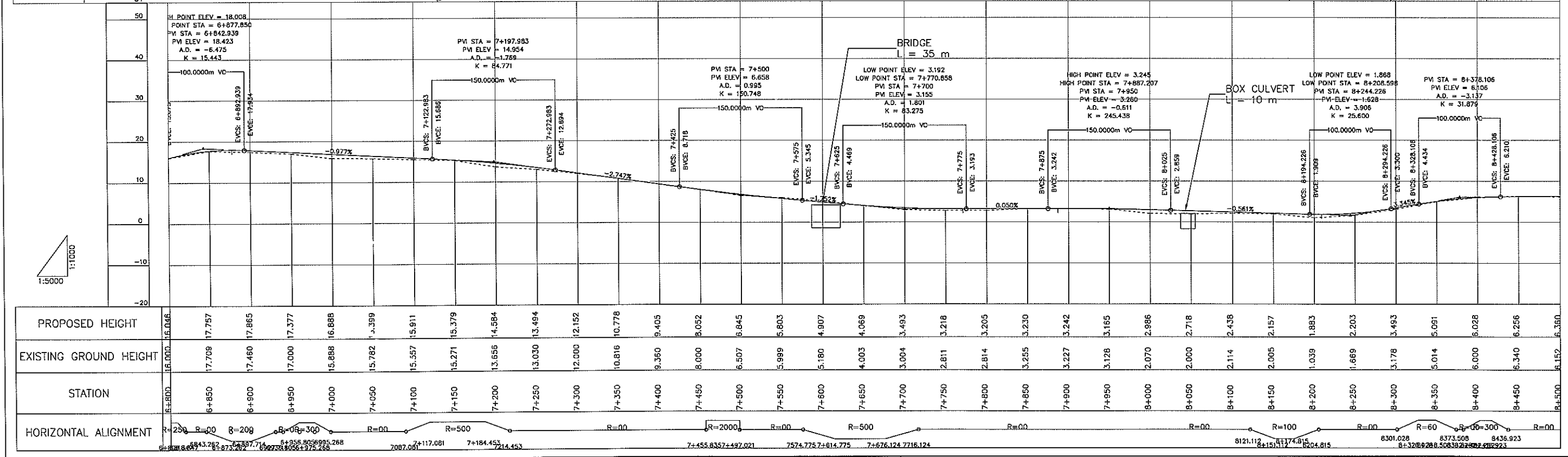
ROAD NAME TITLE : **ABDULLAH DAENG SIRUA ROAD**

DRAWING TITLE : **PLAN AND PROFILE (4/11)**

SCALE = **1 / 5,000 H, 1/1,000 V**

DRAWING NO. **PP-04**

DATE: **MARCH 2008**



PROPOSED HEIGHT	EXISTING GROUND HEIGHT	STATION	HORIZONTAL ALIGNMENT
16.046	16.000	6+800	R=250
17.757	17.709	6+850	R=0
17.865	17.460	6+900	R=200
17.377	17.000	6+950	R=0
16.888	15.888	7+000	R=300
15.399	15.782	7+050	R=0
15.911	15.557	7+100	R=0
15.379	15.271	7+150	R=500
14.984	13.656	7+200	R=0
13.494	13.030	7+250	R=0
12.152	12.000	7+300	R=2000
10.778	10.816	7+350	R=0
9.405	9.350	7+400	R=0
8.052	8.000	7+450	R=0
6.645	6.507	7+500	R=2000
5.803	5.989	7+550	R=0
4.907	5.180	7+600	R=0
4.069	4.003	7+650	R=500
3.493	3.004	7+700	R=0
3.218	2.811	7+750	R=0
3.205	2.814	7+800	R=0
3.230	3.255	7+850	R=0
3.242	3.227	7+900	R=0
3.165	3.128	7+950	R=0
2.986	2.070	8+000	R=0
2.718	2.000	8+050	R=0
2.438	2.114	8+100	R=100
2.157	2.005	8+150	R=0
1.883	1.039	8+200	R=0
2.203	1.669	8+250	R=0
3.493	3.178	8+300	R=0
5.091	5.014	8+350	R=60
6.028	6.000	8+400	R=0
6.256	6.340	8+450	R=0
6.350	6.152	8+500	R=0

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 FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA

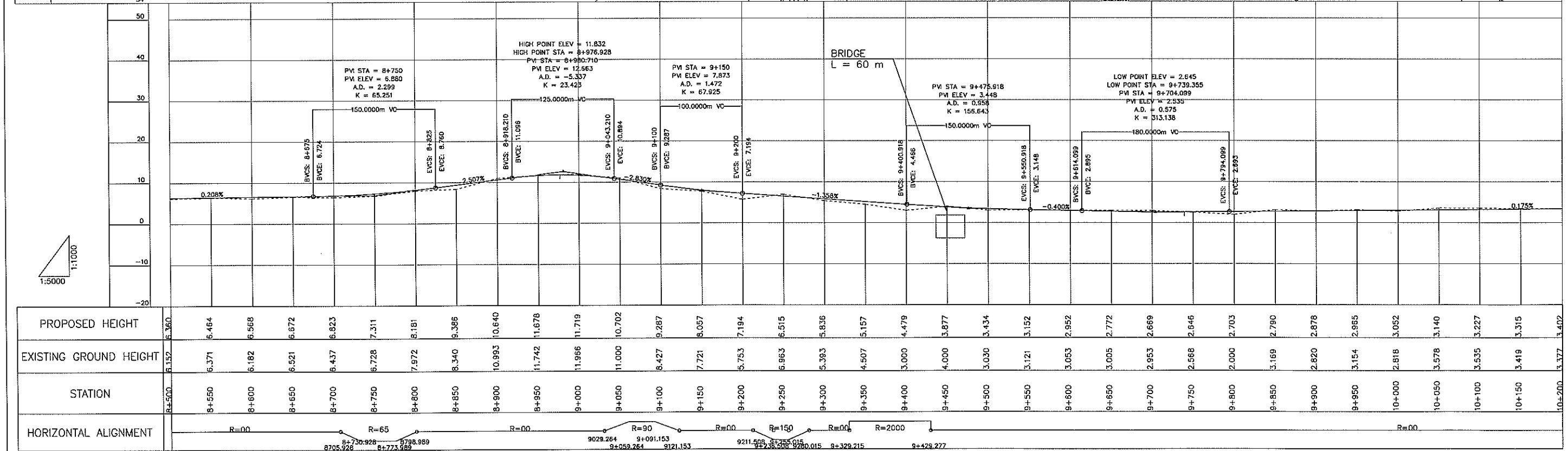
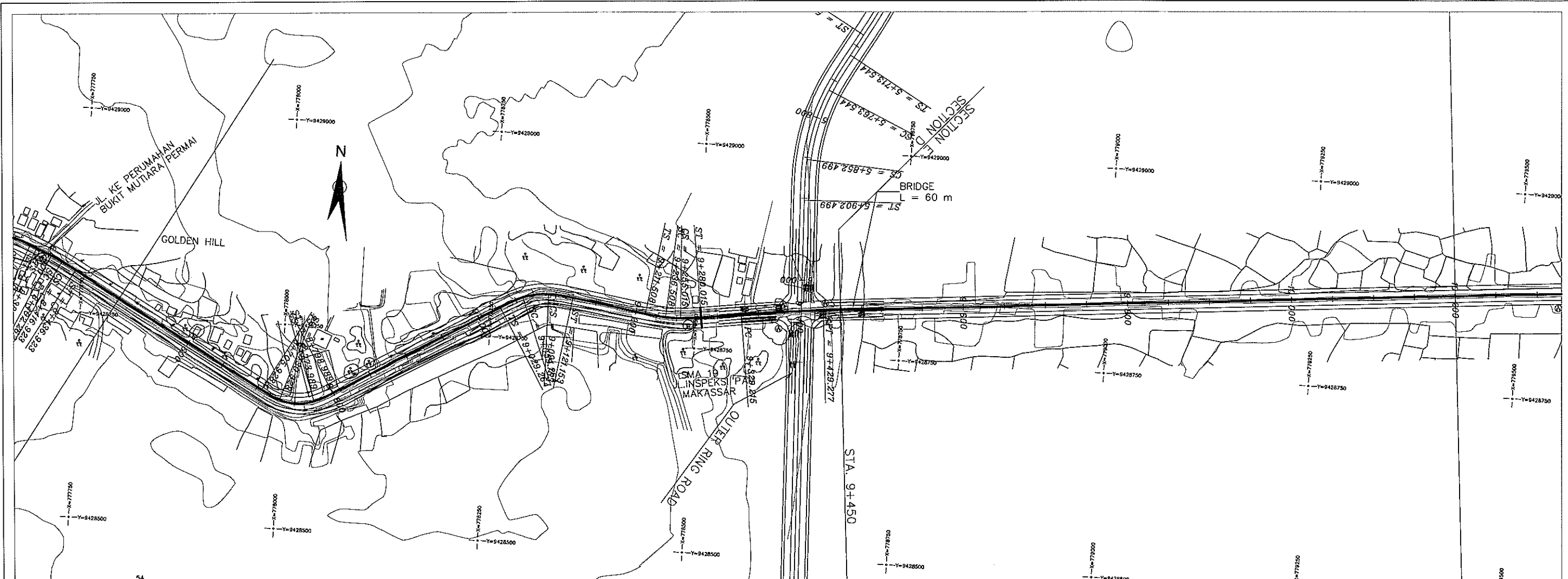
ROAD NAME TITLE : **ABDULLAH DAENG SIRUA ROAD**

DRAWING TITLE : **PLAN AND PROFILE (5/11)**

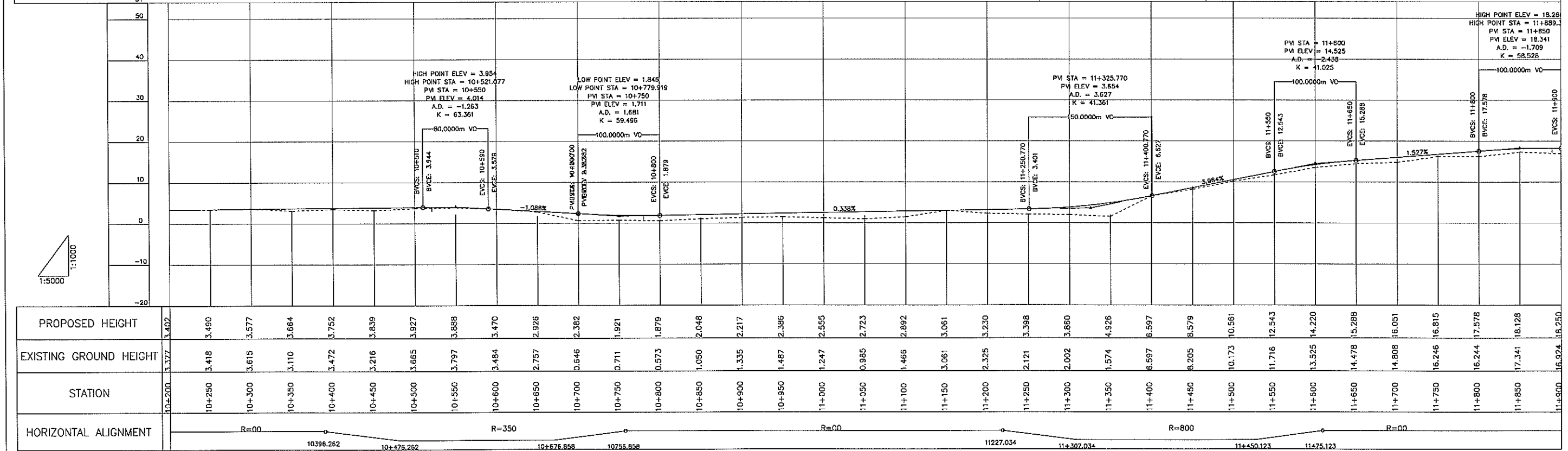
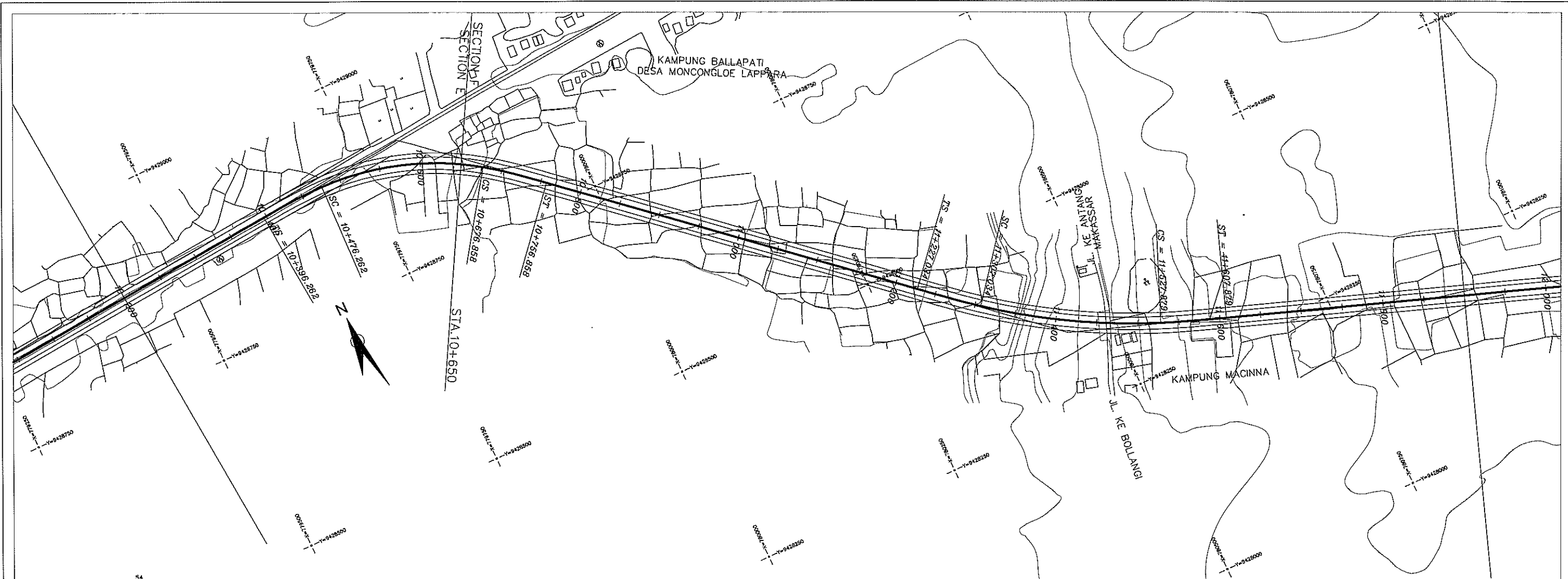
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DRAWING NO. **PP-05**

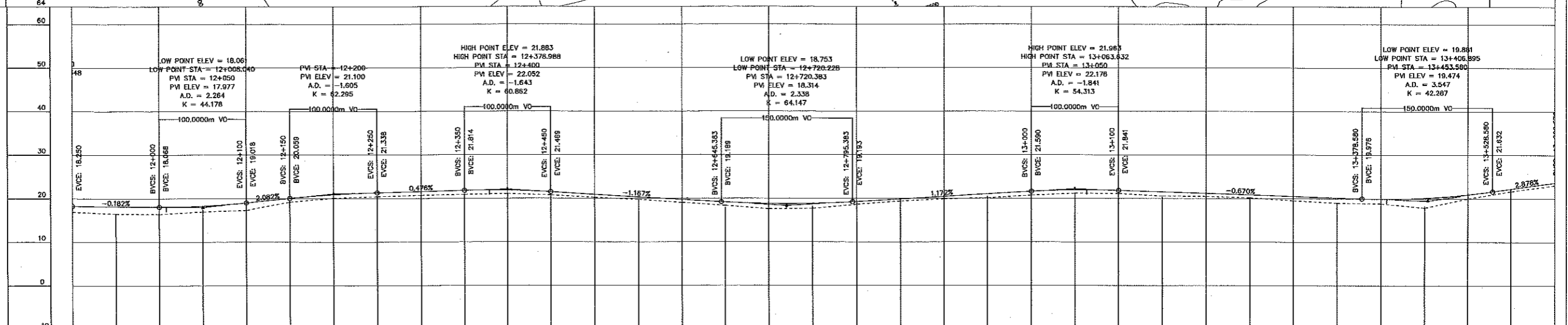
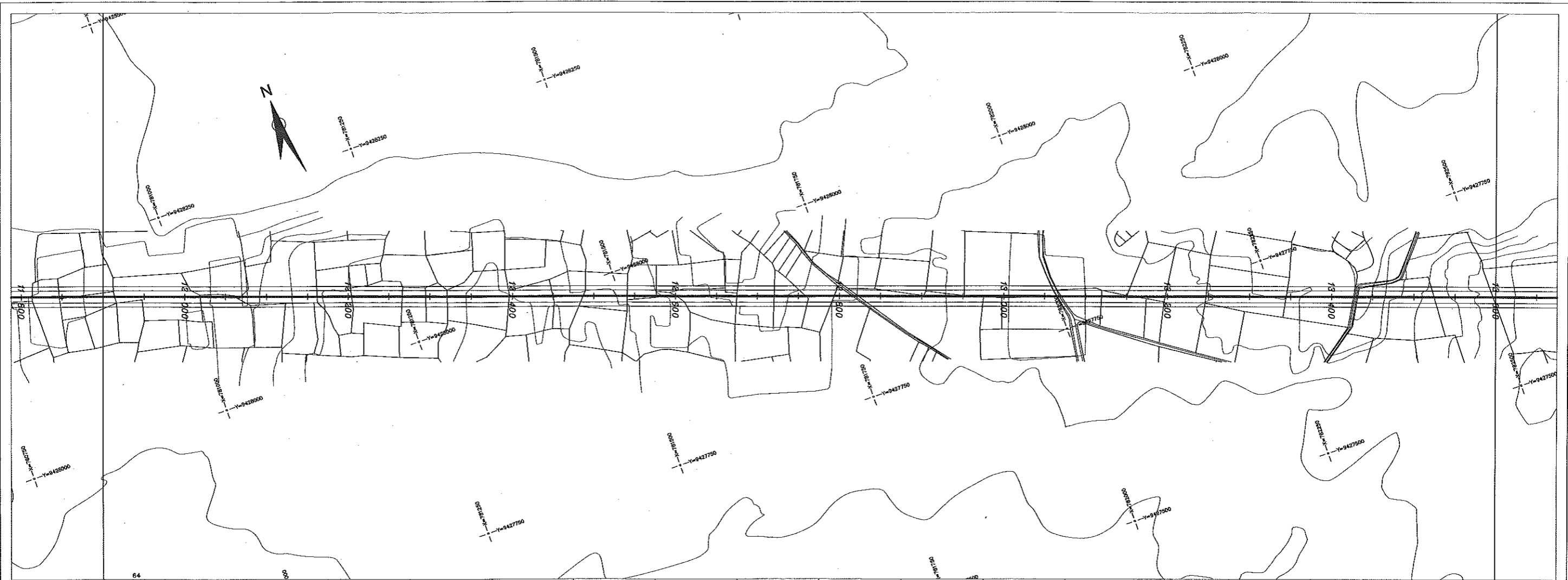
DATE: **MARCH 2008**



	PROJECT TITLE:	ROAD NAME TITLE:	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ABDULLAH DAENG SIRUA ROAD	PP-06
		PLAN AND PROFILE (6/11)	DATE: MARCH 2008
		SCALE =	1 / 5,000 H, 1/1,000 V

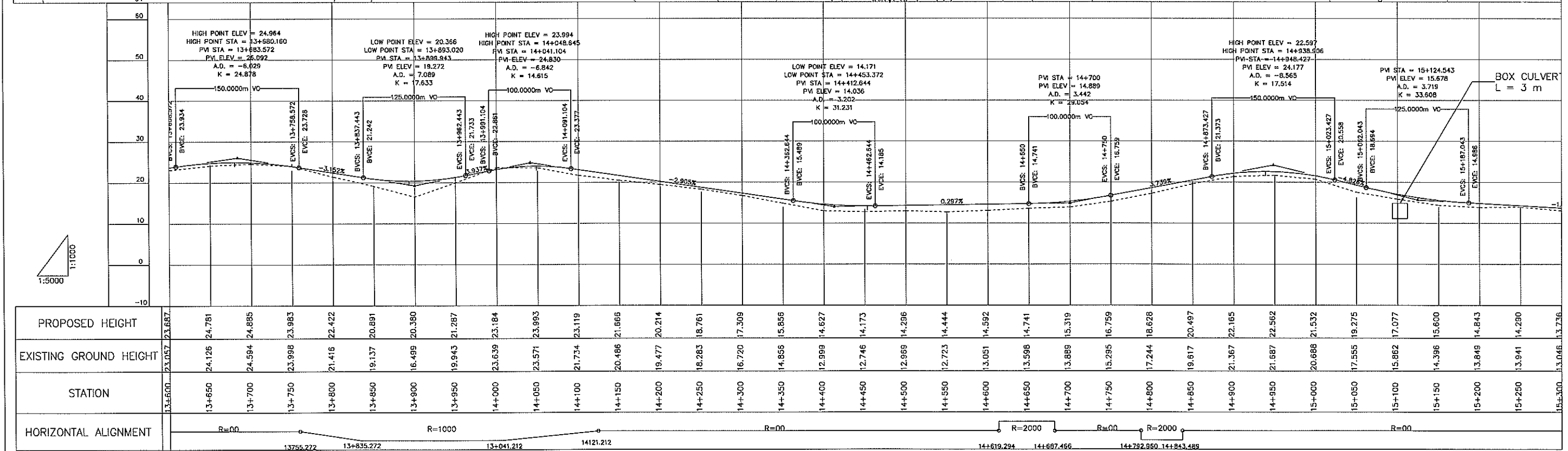
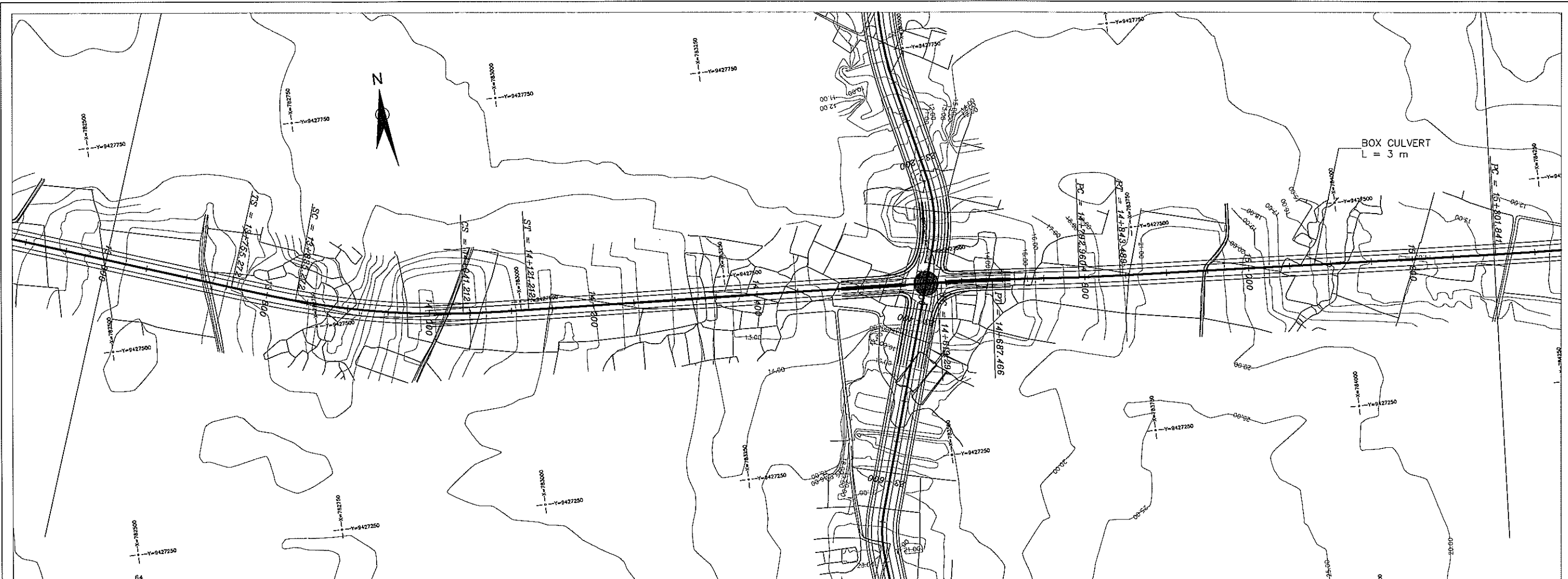


	PROJECT TITLE:	ROAD NAME TITLE:	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ABDULLAH DAENG SIRUA ROAD	PP-07
		PLAN AND PROFILE (7/11)	DATE: MARCH 2008
		SCALE = 1/5,000 H, 1/1,000 V	

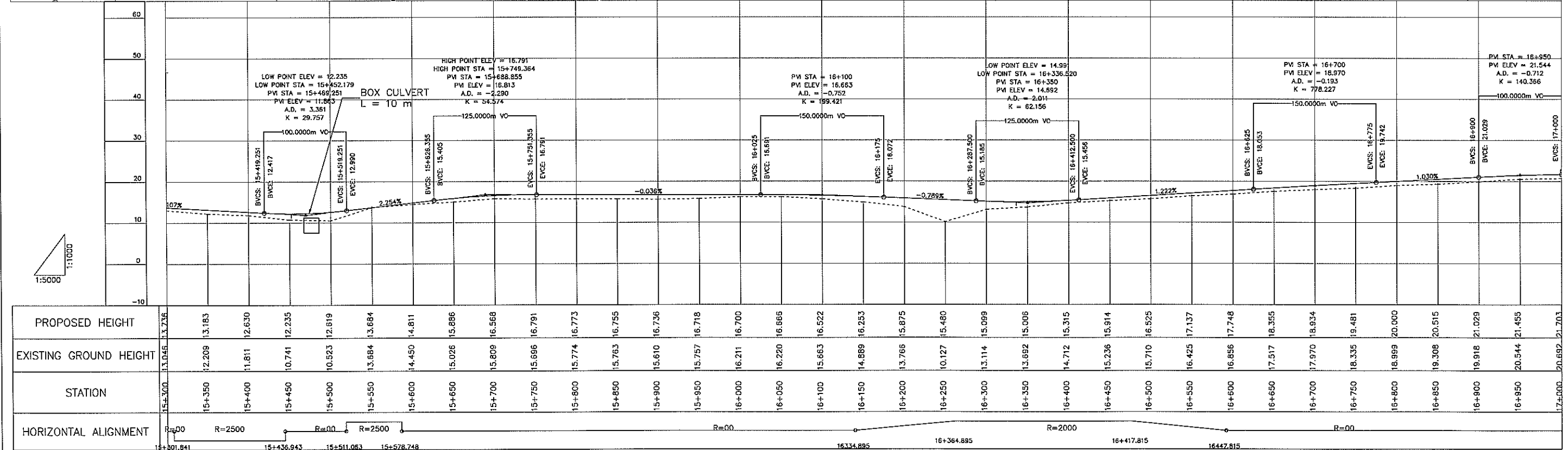
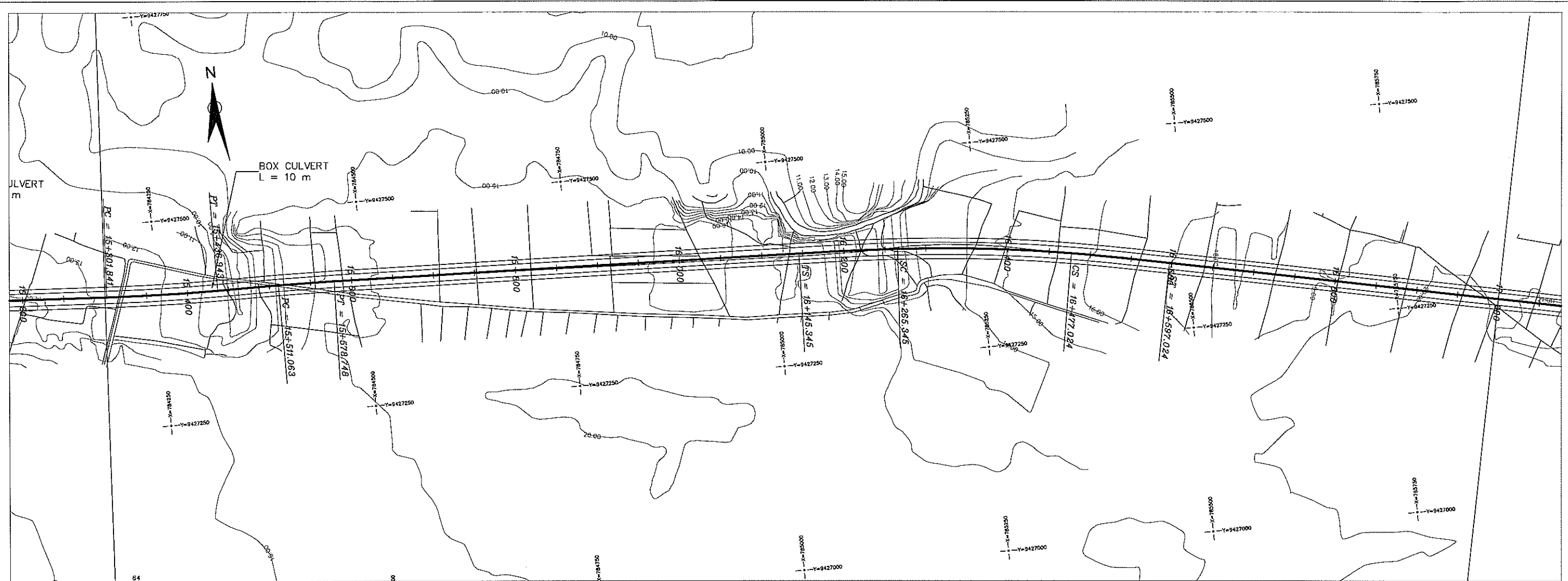


PROPOSED HEIGHT	EXISTING GROUND HEIGHT	STATION	HORIZONTAL ALIGNMENT
18.250	16.524	11+500	R=00
18.159	16.495	11+550	
18.068	16.402	12+000	
18.260	16.977	12+050	
19.018	17.281	12+100	
20.059	19.195	12+150	
20.899	20.100	12+200	
21.338	20.435	12+250	
21.576	20.721	12+300	
21.814	20.892	12+350	
21.847	21.052	12+400	
21.468	20.732	12+450	
20.886	20.201	12+500	
20.302	19.713	12+550	
19.719	19.026	12+600	
19.137	18.325	12+650	
18.785	17.552	12+700	
18.922	17.661	12+750	
19.247	18.601	12+800	
19.833	19.352	12+850	
20.419	19.844	12+900	
21.004	20.057	12+950	
21.590	20.707	13+000	
21.946	21.176	13+050	
21.841	21.109	13+100	
21.506	20.545	13+150	
21.172	20.465	13+200	
20.837	20.152	13+250	
20.502	19.525	13+300	
20.167	18.990	13+350	
19.887	18.832	13+400	
20.101	17.885	13+450	
20.906	19.984	13+500	
22.248	21.652	13+550	
23.687	23.057	13+600	

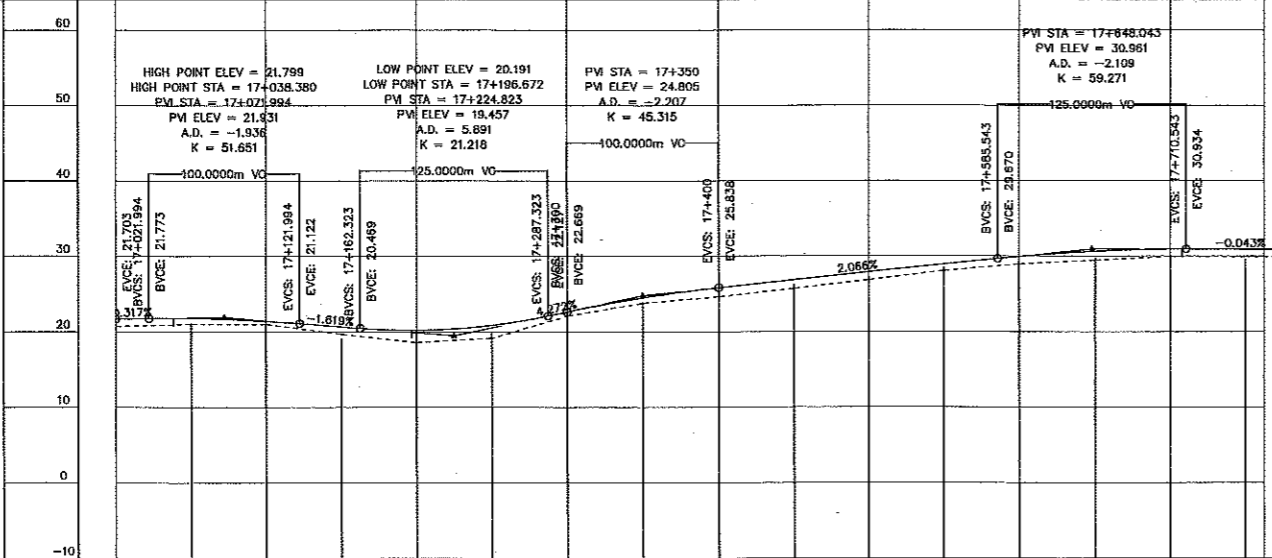
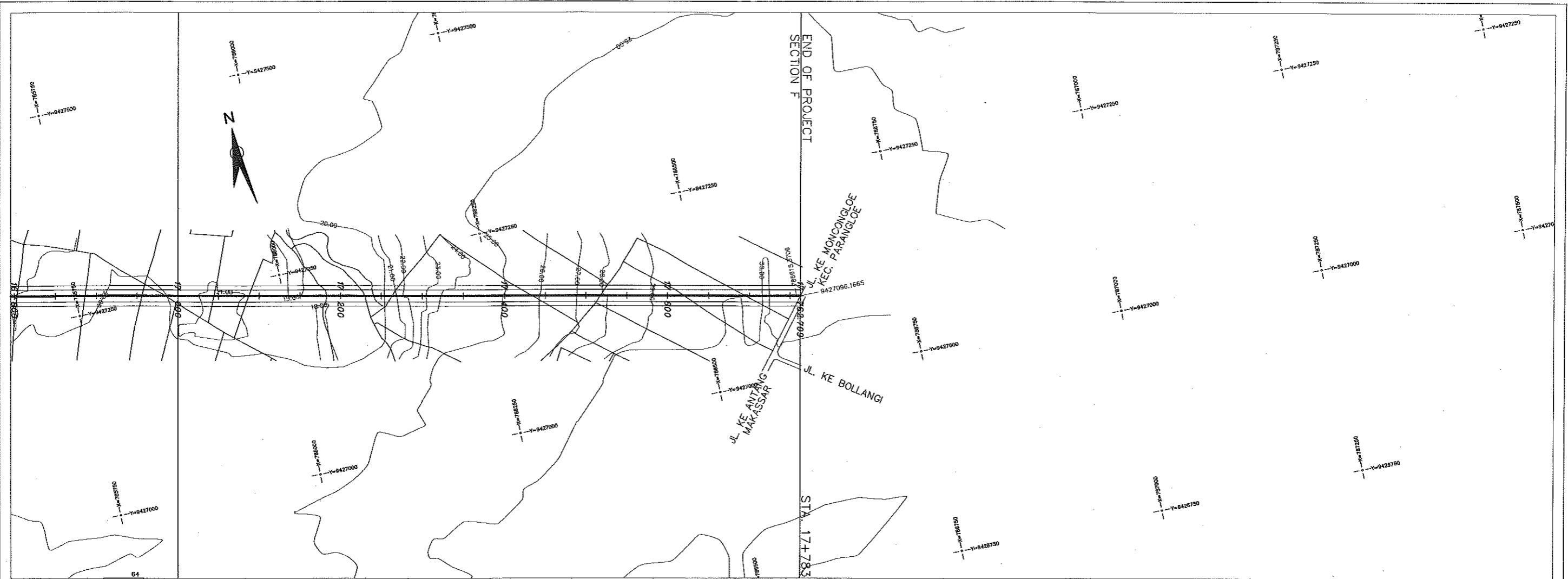
	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ABDULLAH DAENG SIRUA ROAD	PP-08
		PLAN AND PROFILE (8/11)	DATE: MARCH 2008
		SCALE =	1 / 5,000 H, 1/1,000 V



PROPOSED HEIGHT	EXISTING GROUND HEIGHT	STATION	HORIZONTAL ALIGNMENT
23.687	23.057	13+600	R=00
24.781	24.126	13+650	
24.885	24.584	13+700	
23.983	23.998	13+750	
22.422	21.416	13+800	
20.891	19.137	13+850	
20.380	16.499	13+900	
21.287	19.943	13+950	
23.184	23.639	14+000	
23.993	23.571	14+050	
23.119	21.734	14+100	
21.666	20.486	14+150	
20.214	19.477	14+200	
18.761	18.263	14+250	
17.309	16.720	14+300	
15.856	14.856	14+350	
14.627	12.969	14+400	
14.173	12.746	14+450	
14.296	12.969	14+500	
14.444	12.723	14+550	
14.592	13.051	14+600	
14.741	13.598	14+650	
15.319	13.889	14+700	
16.759	15.295	14+750	
18.628	17.244	14+800	
20.497	19.617	14+850	
22.165	21.367	14+900	
22.562	21.587	14+950	
21.532	20.688	15+000	
19.275	17.555	15+050	
17.077	15.862	15+100	
15.600	14.396	15+150	
14.843	13.848	15+200	
14.290	13.941	15+250	
13.736	13.046	15+300	



	PROJECT TITLE:	ROAD NAME TITLE:	DRAWING NO.
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		DRAWING TITLE:	DATE:
		PLAN AND PROFILE (10/11)	MARCH 2008
		SCALE = 1/5,000 H, 1/1,000 V	



PROPOSED HEIGHT	17+000	17+050	17+100	17+150	17+200	17+250	17+300	17+350	17+400	17+450	17+500	17+550	17+600	17+650	17+700	17+750	17+783
EXISTING GROUND HEIGHT	20.892	21.011	21.020	19.683	18.574	19.143	22.096	23.805	24.634	25.704	26.834	28.058	28.969	29.458	29.839	29.939	30.903
STATION	17+000	17+050	17+100	17+150	17+200	17+250	17+300	17+350	17+400	17+450	17+500	17+550	17+600	17+650	17+700	17+750	17+783
HORIZONTAL ALIGNMENT	R=00																

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

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 FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA

ROAD NAME TITLE : **ABDULLAH DAENG SIRUA ROAD**

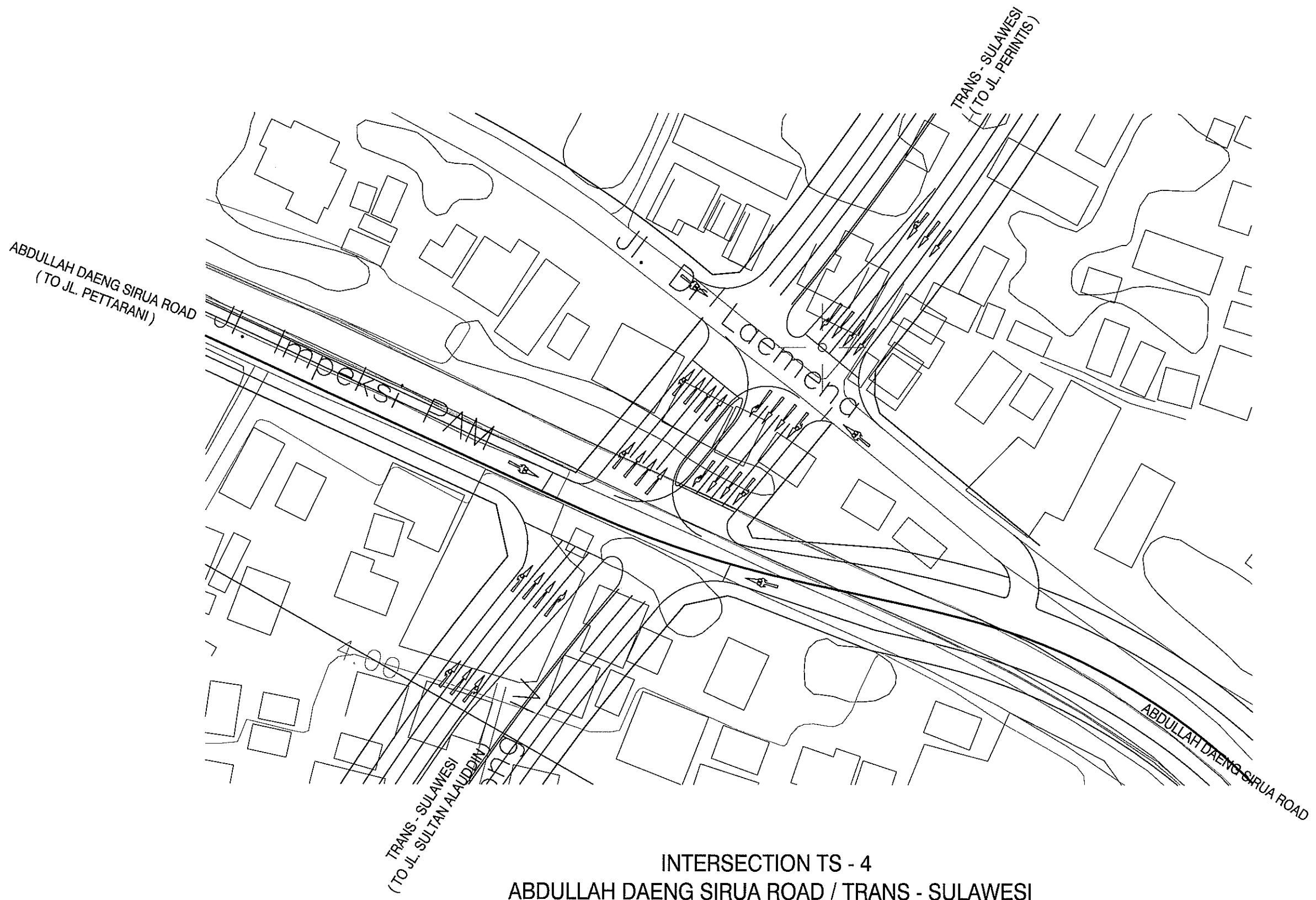
DRAWING TITLE : **PLAN AND PROFILE (11/11)**

SCALE = **1 / 5,000 H, 1/1,000 V**

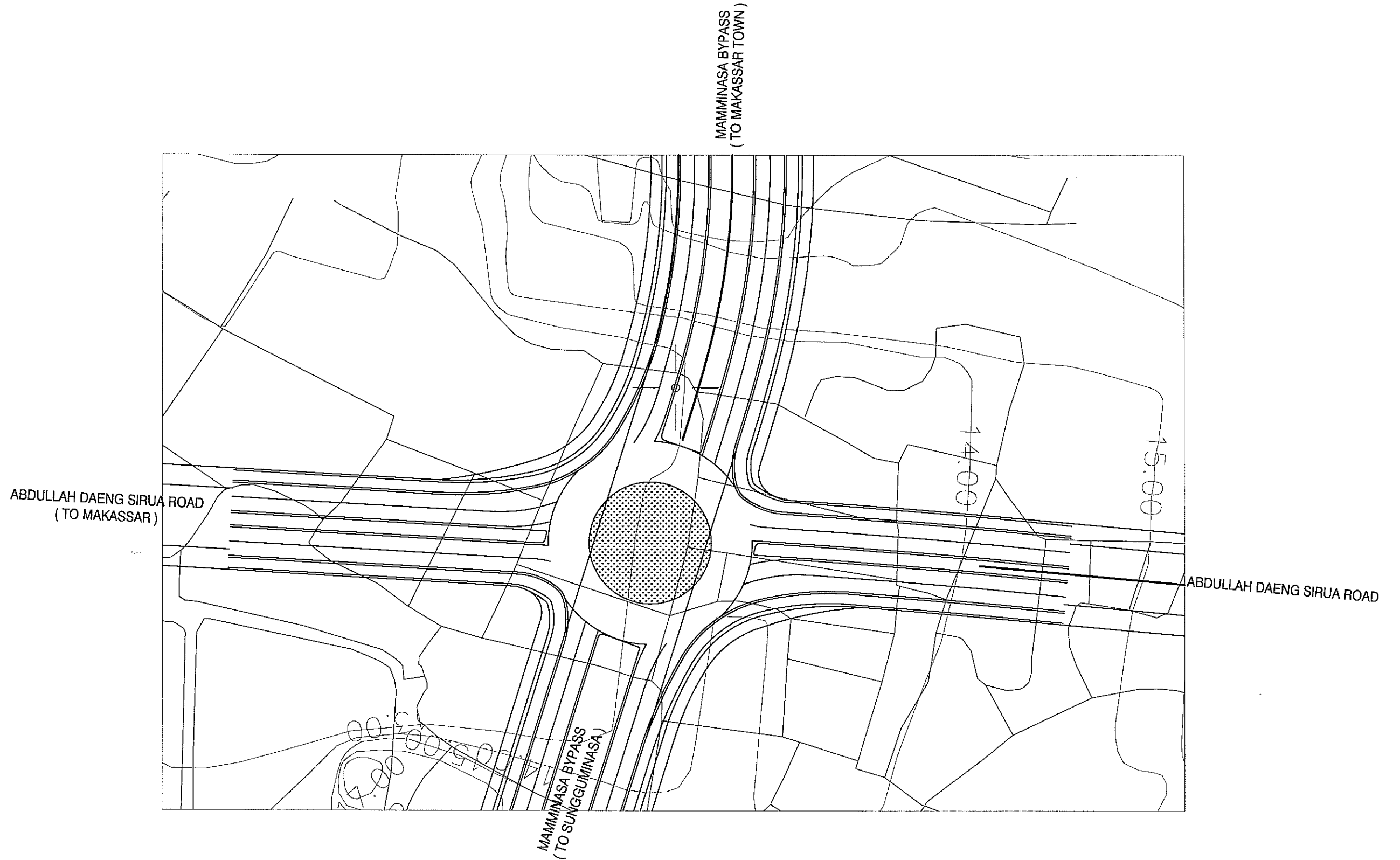
DRAWING NO. **PP-11**

DATE: **MARCH 2008**




4. ROADWAY - INTERSECTIONS

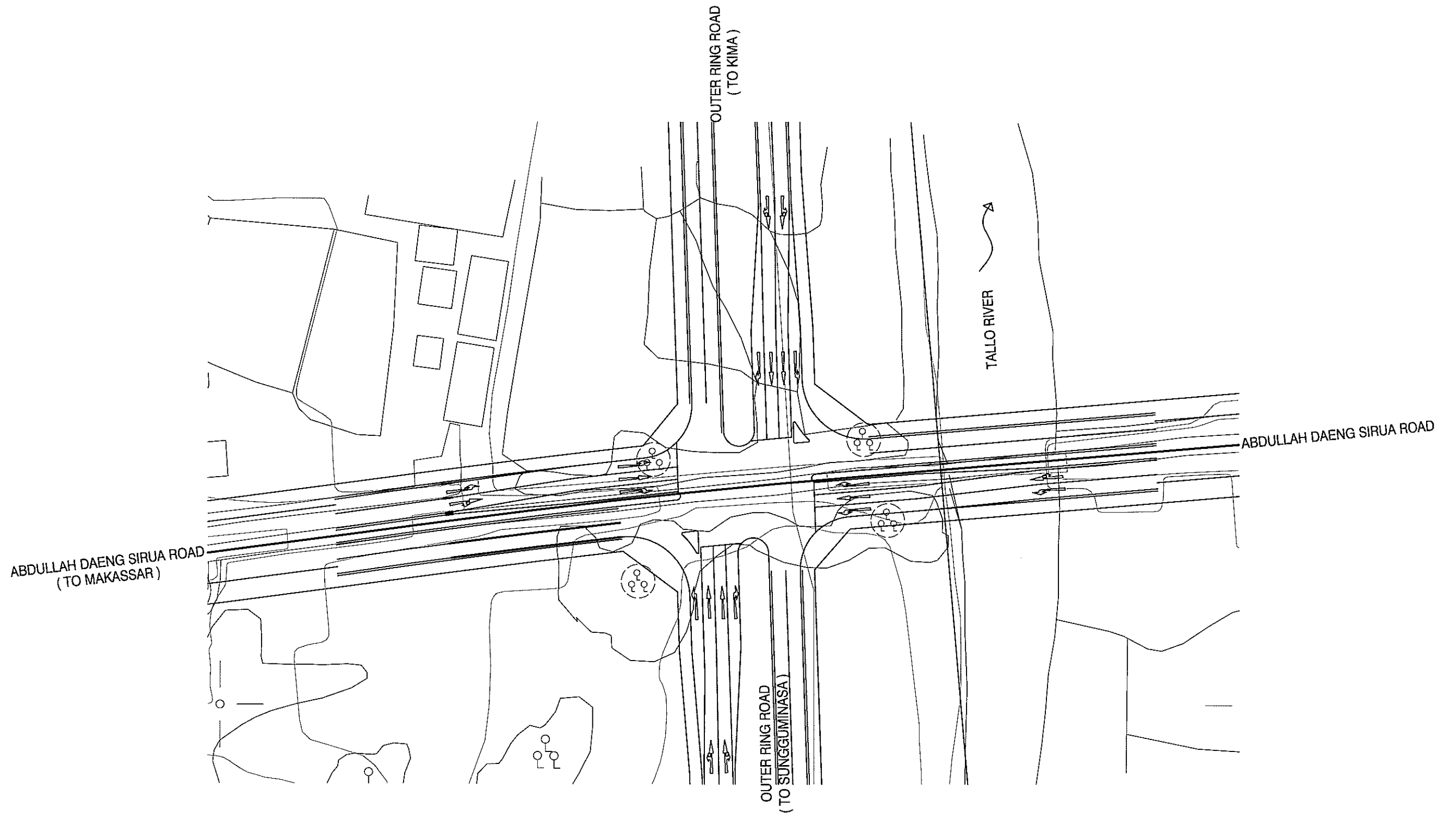


	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ABDULLAH DAENG SIRUA ROAD	IN-01
		DRAWING TITLE : TS - 4 ABDULLAH DAENG SIRUA ROAD / TRANS - SULAWESI	DATE: MARCH 2008
		SCALE =	1 / 1000



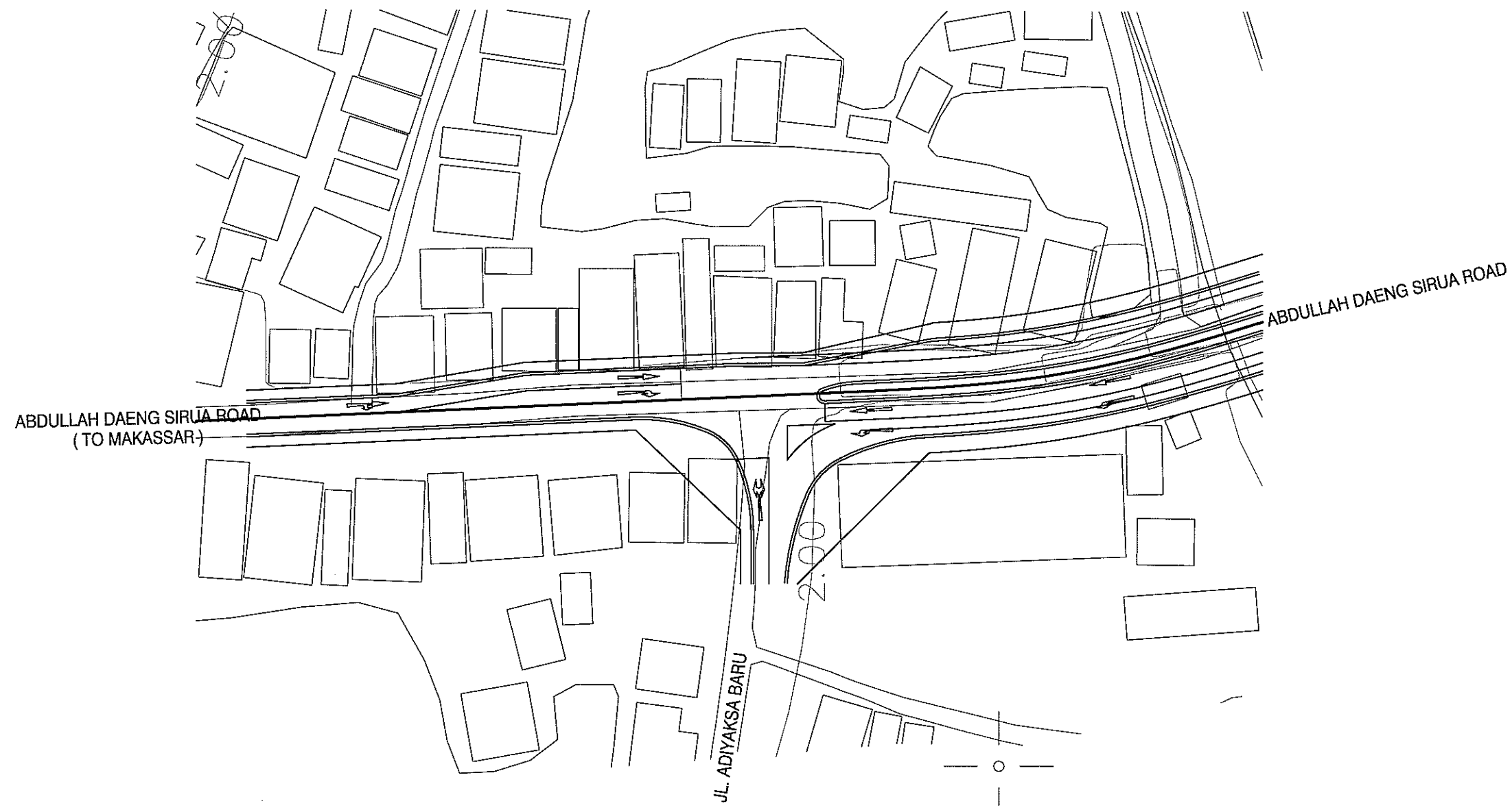
INTERSECTION MB - 2
 ABDULLAH DAENG SIRUA ROAD / MAMMINASA BYPASS

 JAPAN INTERNATIONAL COOPERATION AGENCY	PROJECT TITLE: THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ROAD NAME TITLE : ABDULLAH DAENG SIRUA ROAD	DRAWING NO. IN-02
	 NIPPON KOEI CO., LTD. <small>JOINT VENTURE WITH</small> KRI INTERNATIONAL Corporation  ALMEC Corporation	DRAWING TITLE : MB - 2 ABDULLAH DAENG SIRUA ROAD / MAMMINASA BYPASS	SCALE = 1 / 1000



INTERSECTION OR - 4
 ABDULLAH DAENG SIRUA ROAD / OUTER RING ROAD

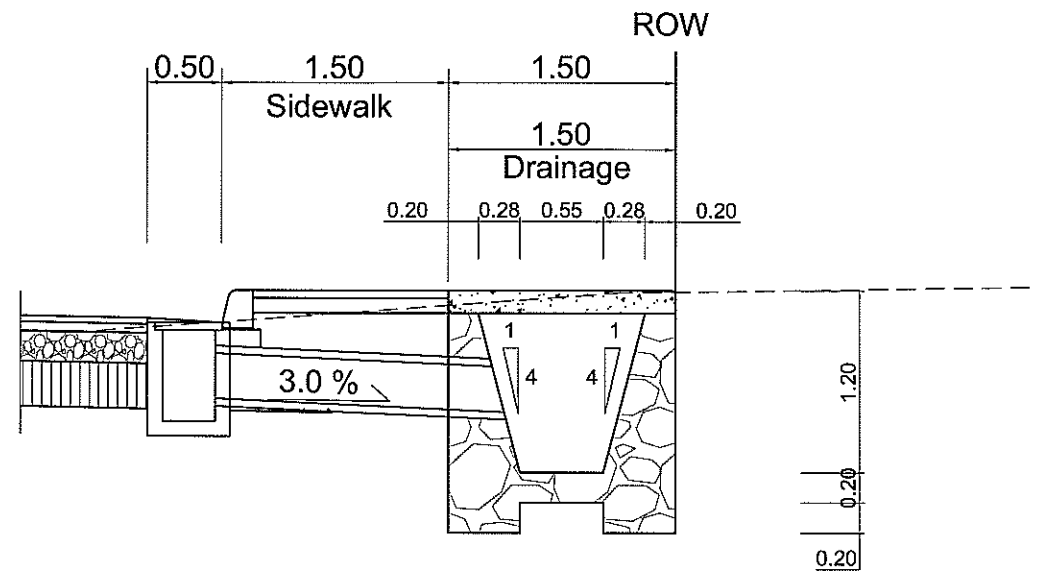
	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ABDULLAH DAENG SIRUA ROAD	IN-03
		DRAWING TITLE : OR - 4 ABDULLAH DAENG SIRUA ROAD / OUTER RING ROAD	DATE: MARCH 2008
		SCALE =	1 / 1000



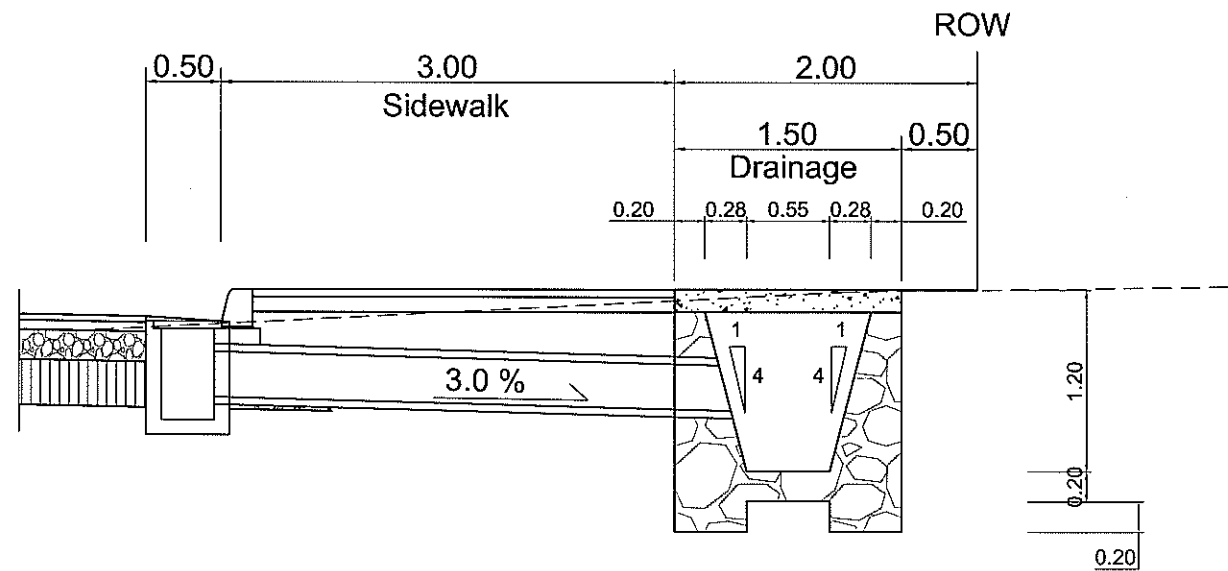
INTERSECTION AD - 1
BEGINNING OF ABDULLAH DAENG SIRUA ROAD

	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	DRAWING TITLE :	IN-04
		SCALE =	1 / 1000

5. DRAINAGE AND STRUCTURES

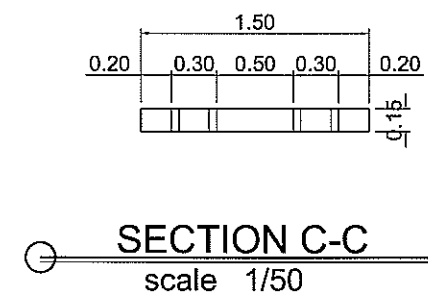
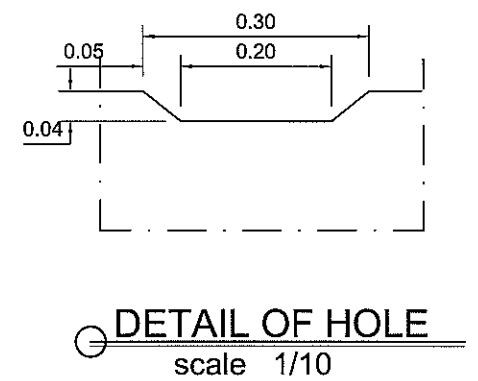
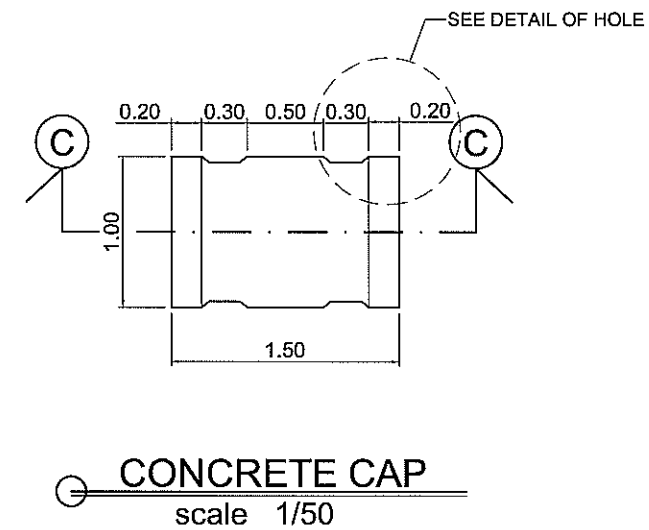
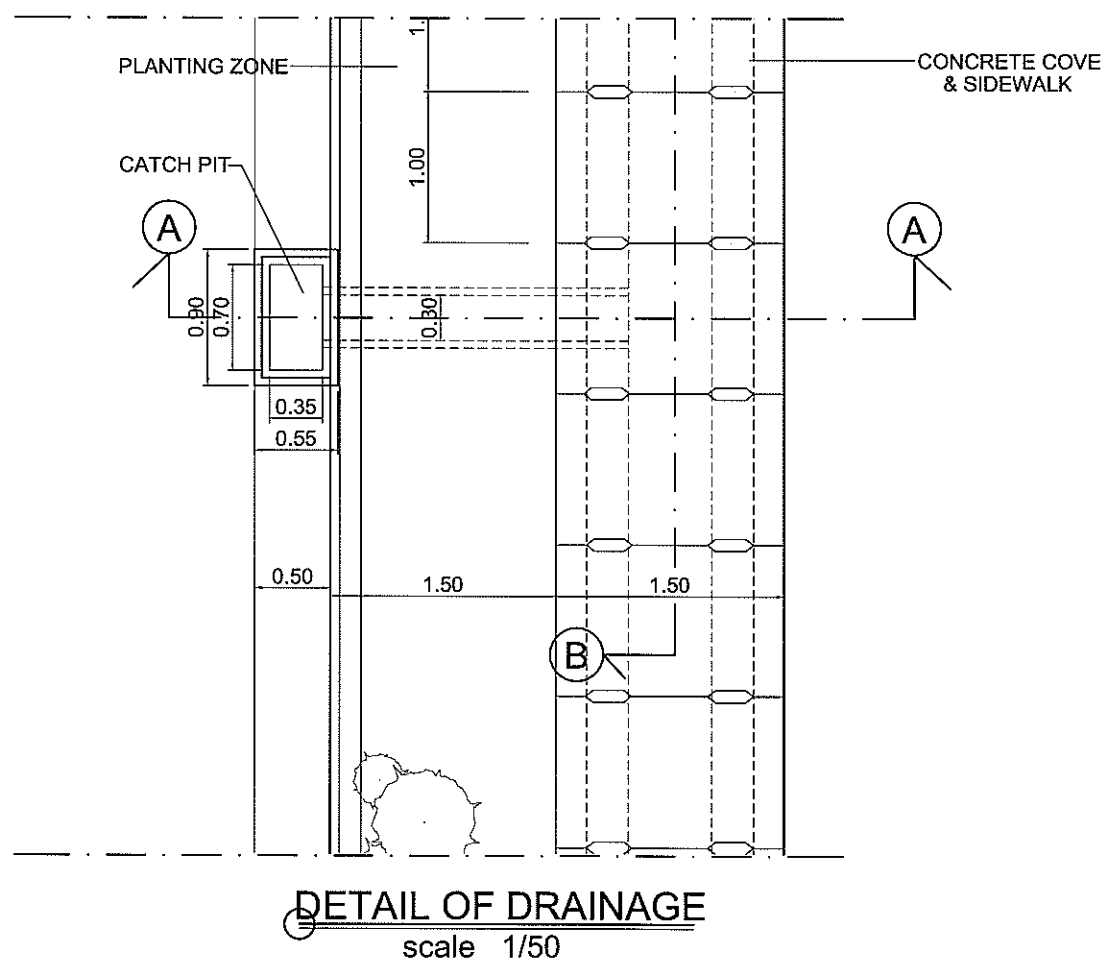
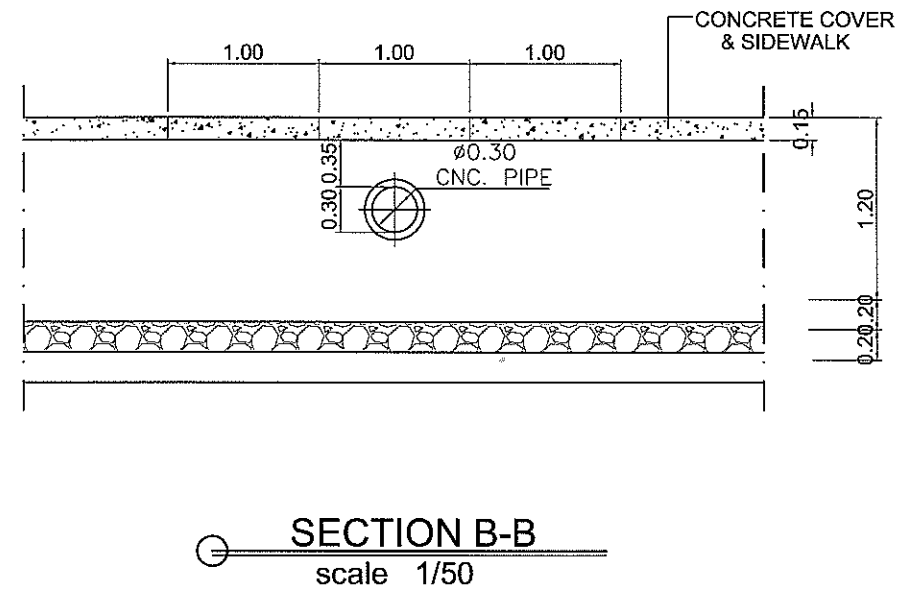
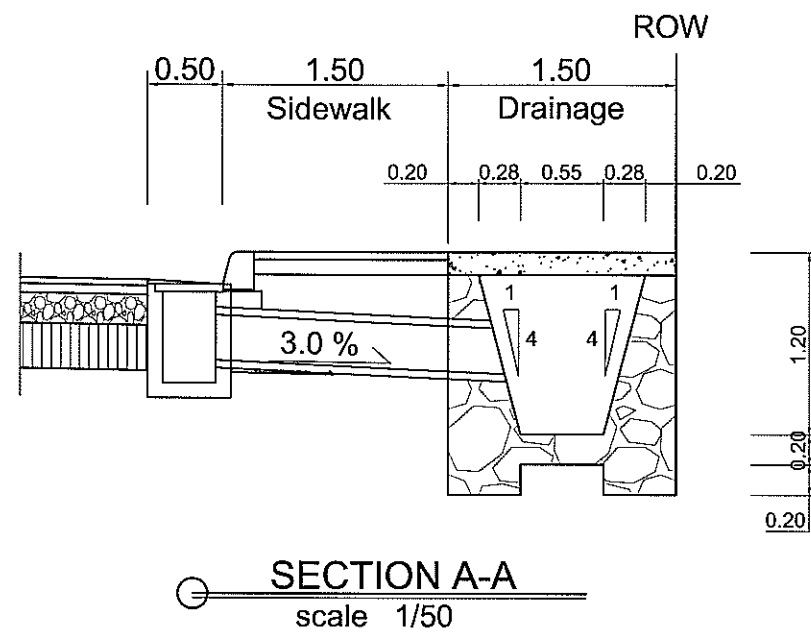


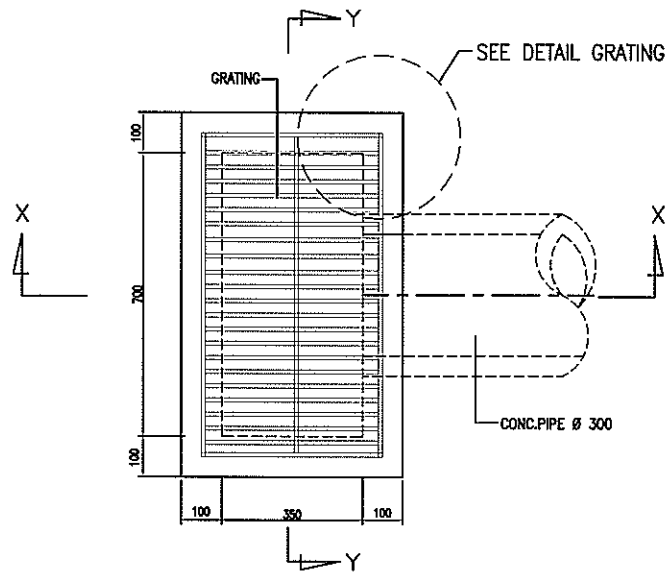
DETAIL DRAINAGE FOR TYPE - A1
scale 1/50



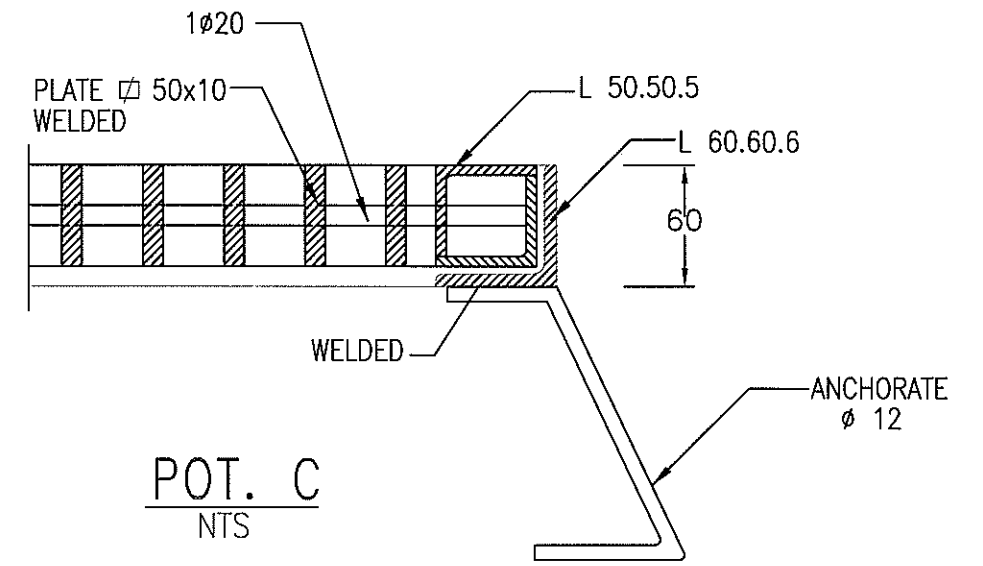
DETAIL DRAINAGE FOR TYPE - B
scale 1/50

	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ABDULLAH DAENG SIRUA ROAD	DR-01
		DRAWING TITLE : DETAIL OF DRAINAGE (1/2)	DATE: MARCH 2008
		SCALE =	1 / 50

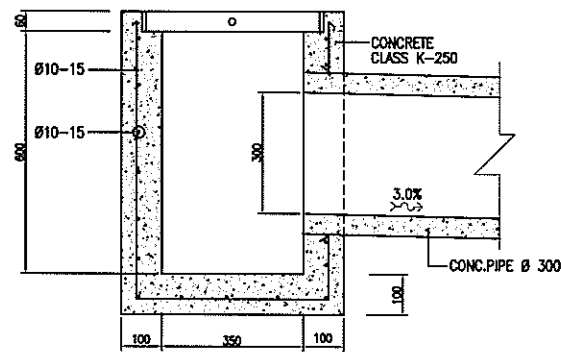




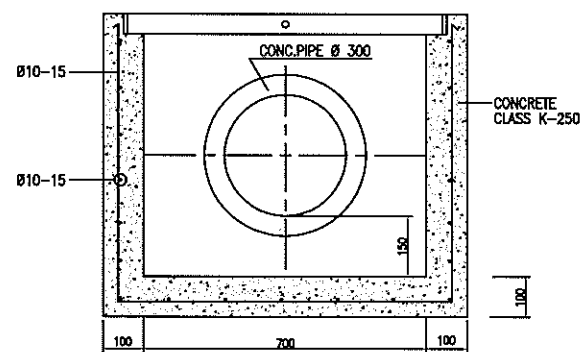
PLAN OF CATCH BASIN
SCALE : 1/20



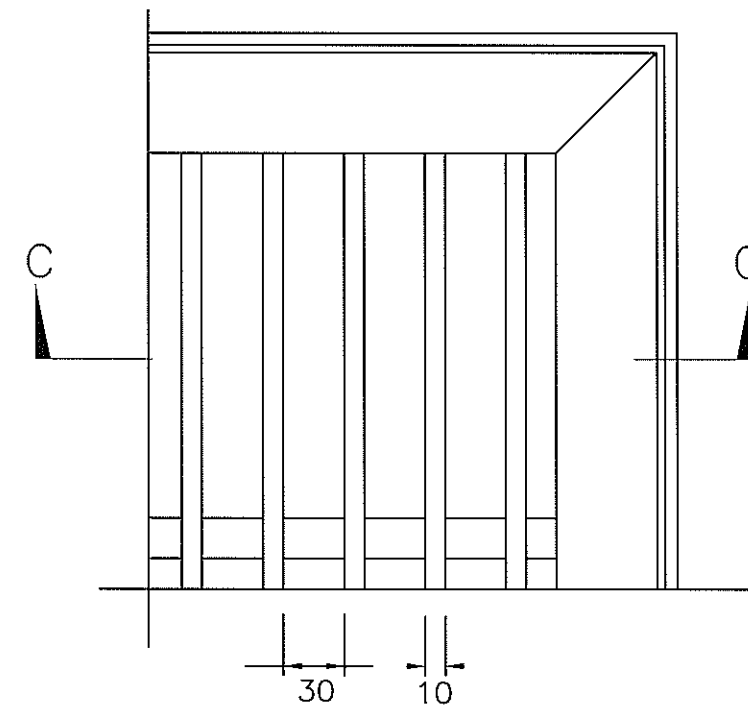
POT. C
NTS



SECTION X-X
SCALE : 1/20

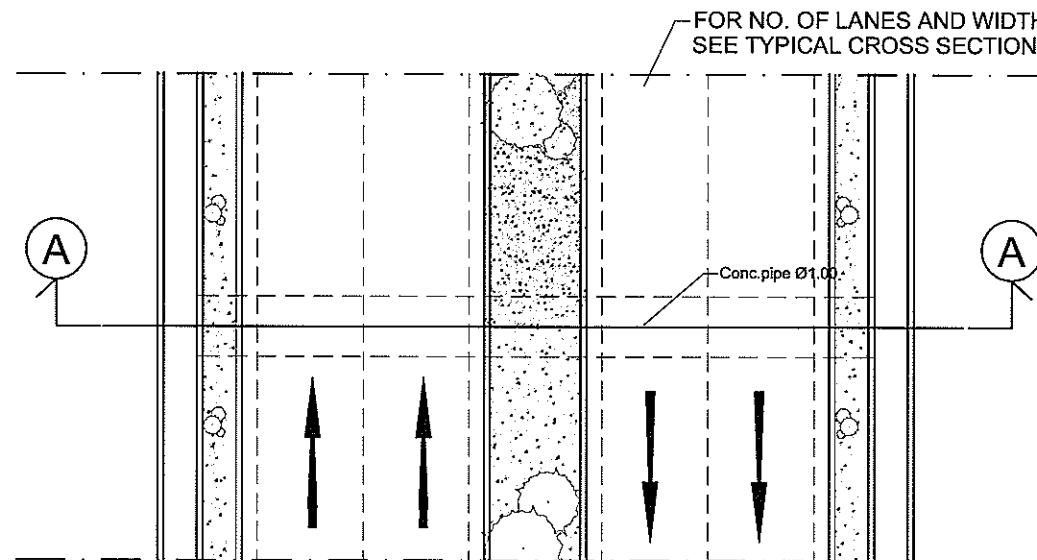


SECTION Y-Y
SCALE : 1/20

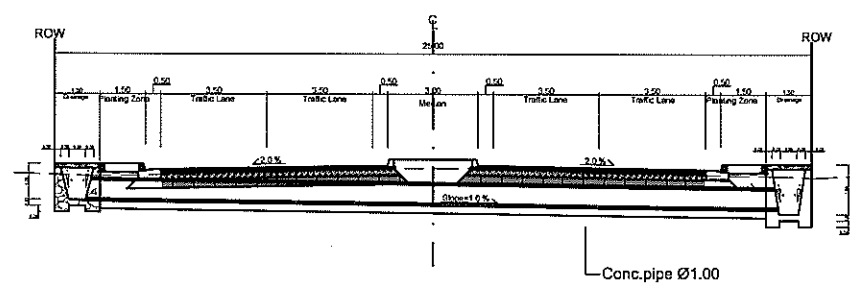


DETAIL OF GRATING
NTS

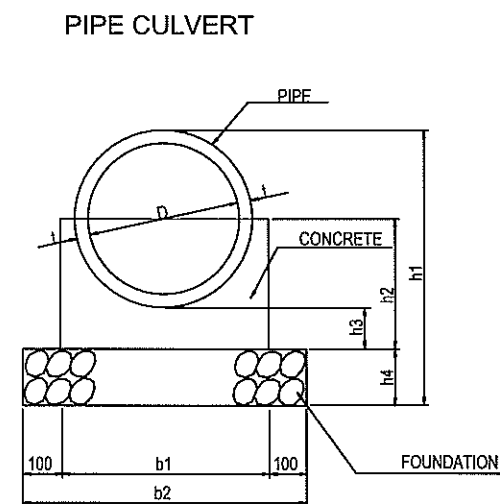
TYPE	DIMENSION (mm)								QUANTITY (per 10 m)			
	D	t	b1	b2	h1	h2	h3	h4	Concrete (m3)	Form (m2)	Foudation (m3)	Pipe (No.)
RC-D300	300	30	600	800	610	280	100	150	1.171	5.600	8.000	5.0
RC-D600	600	50	900	1100	1000	500	150	150	2.576	10.000	11.000	4.1
RC-D1000	1000	82	1450	1650	1564	790	200	200	6.041	15.800	16.500	4.1
RC-D1500	1500	112	2100	2300	2174	1120	250	200	11.710	22.400	23.000	4.2



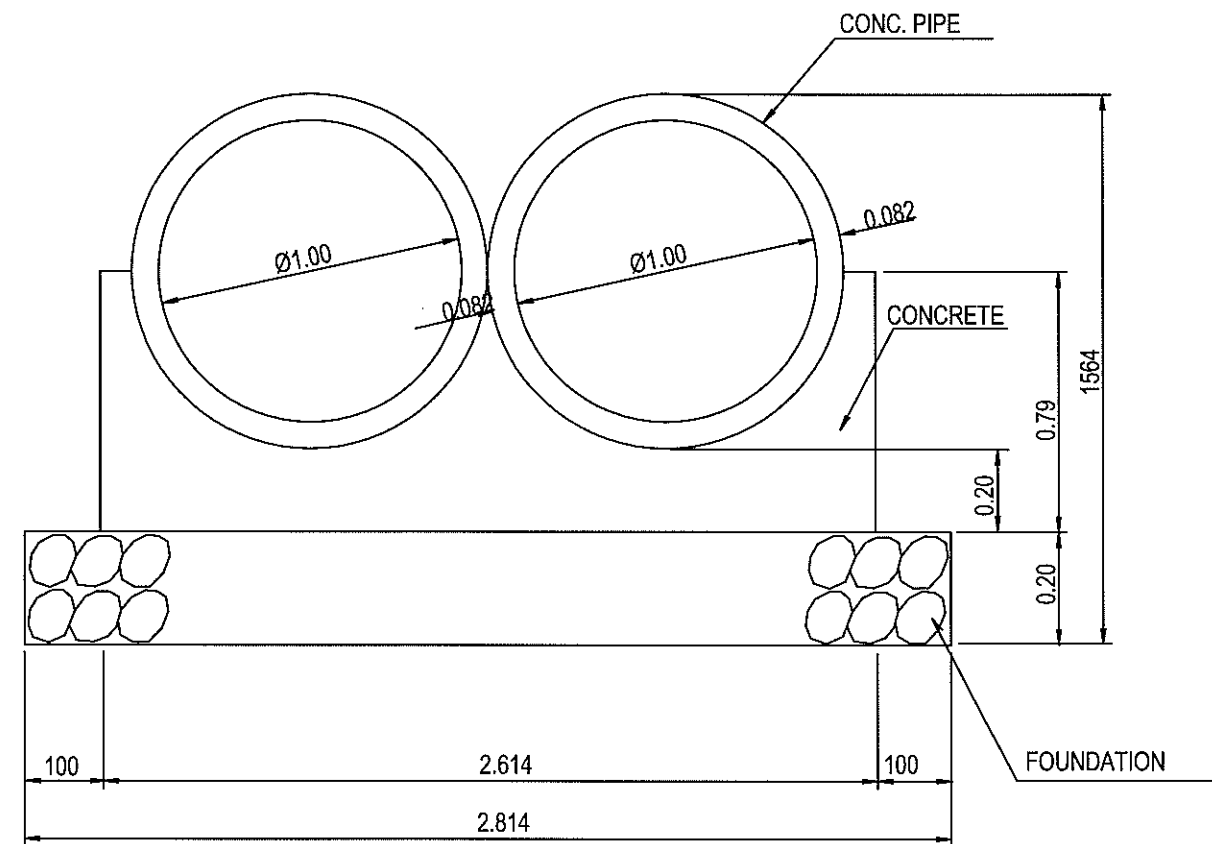
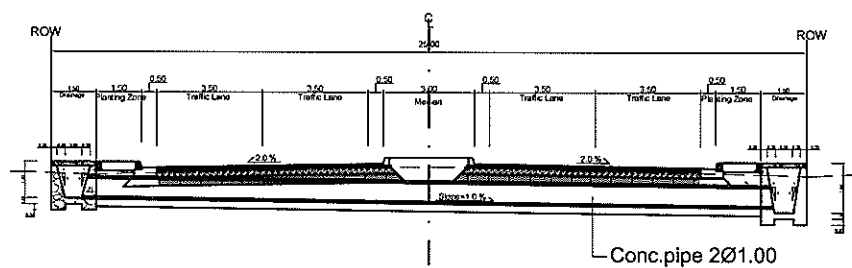
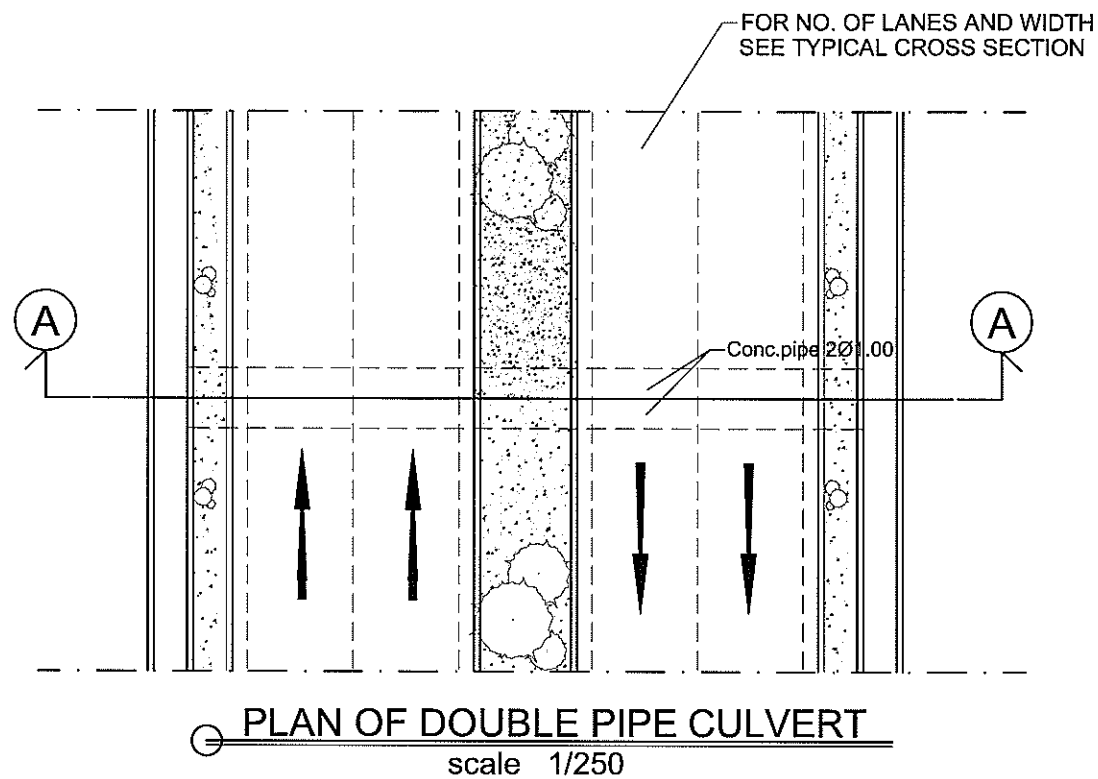
PLAN OF PIPE CULVERT
scale 1/250



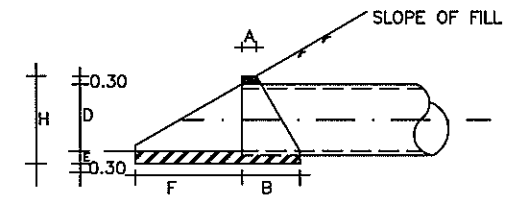
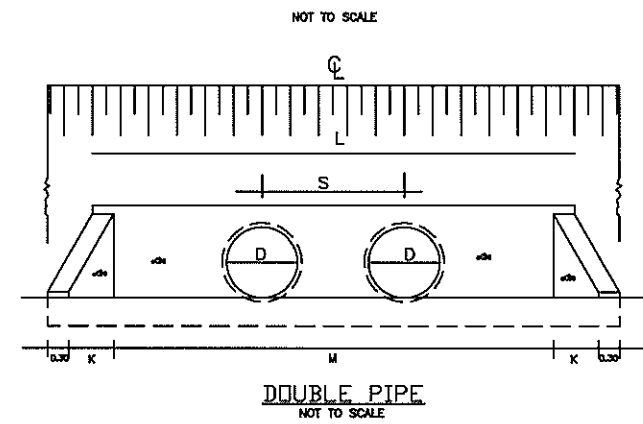
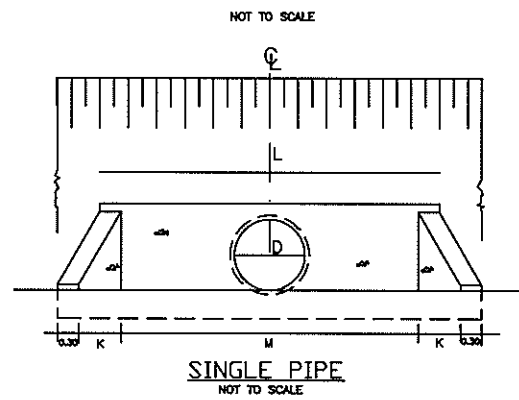
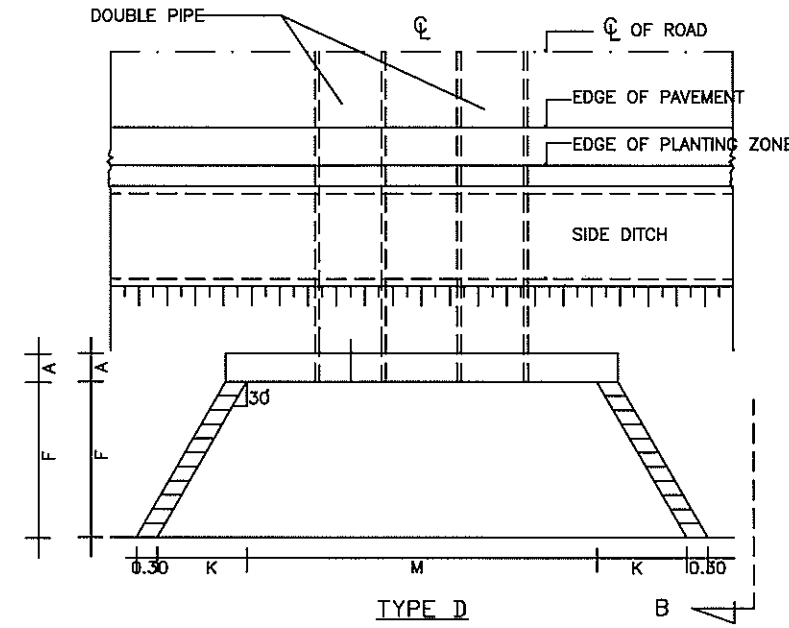
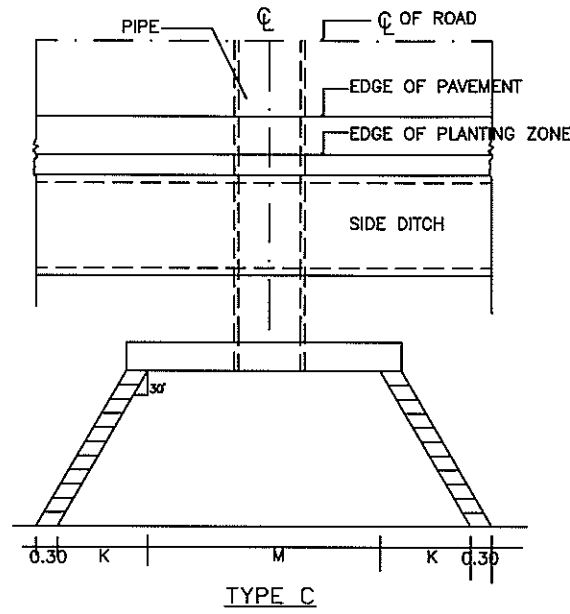
SECTION A-A
scale 1/250



PIPE CULVERT



STANDARD INLET/OUTLET FOR PIPE CULVERTS



SINGLE PIPE

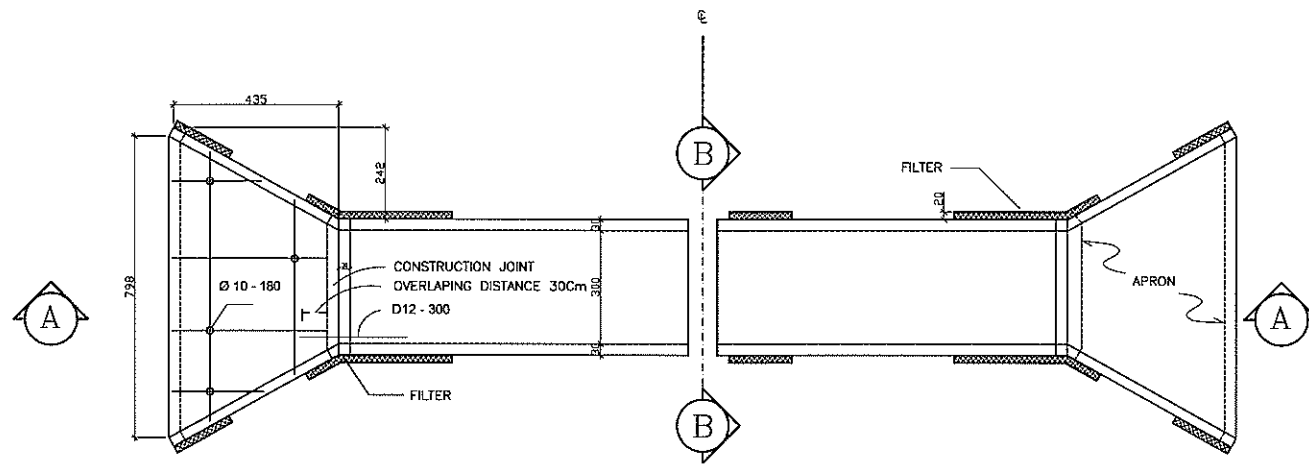
D I A	DIMENSION (m)																	
	A	B	E	F			G			H			K			L	M	T
				3/2	2/1	3/1	3/2	2/1	3/1	3/2	2/1	3/1	3/2	2/1	3/1			
0.40	0.23	0.41	0.20	0.43	0.60	1.15	0.29	0.30	0.38	0.99	1.00	1.08	0.25	0.35	0.66	2.30	1.70	0.050
0.50	0.26	0.46	0.25	0.53	0.80	1.45	0.35	0.40	0.46	1.10	1.15	1.23	0.31	0.46	0.84	2.80	2.20	0.055
0.60	0.30	0.53	0.25	0.63	1.00	1.75	0.42	0.50	0.59	1.17	1.25	1.34	0.36	0.58	1.01	3.30	2.70	0.065
0.70	0.33	0.58	0.25	0.83	1.25	2.13	0.55	0.63	0.72	1.30	1.38	1.47	0.47	0.73	1.23	3.90	3.30	0.070
0.80	0.35	0.62	0.25	1.00	1.50	2.50	0.67	0.75	0.84	1.42	1.50	1.59	0.58	0.87	1.45	4.50	3.90	0.075
0.90	0.38	0.67	0.25	1.15	1.70	2.80	0.77	0.85	0.94	1.52	1.50	1.69	0.67	0.96	1.62	4.90	4.50	0.080
1.00	0.42	0.74	0.30	1.30	1.90	3.10	0.87	0.95	1.04	1.67	1.75	1.84	0.75	1.10	1.80	5.40	4.80	0.085
1.20	0.50	0.86	0.30	1.64	2.40	3.90	1.10	1.20	1.30	1.90	2.00	2.10	0.95	1.40	2.30	6.60	5.00	0.100

DOUBLE PIPE

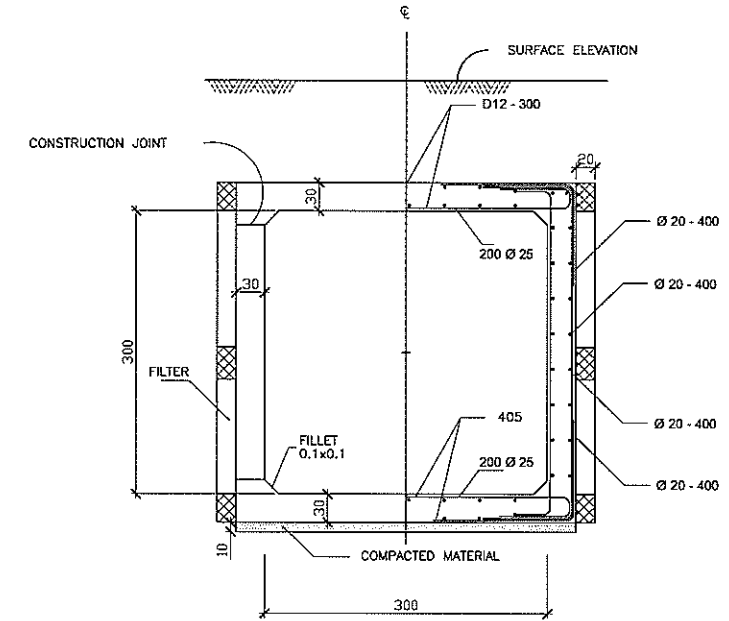
D I A	DIMENSION (m)																		
	A	B	E	F			G			H			K			L'	M	S	T
				3/2	2/1	3/1	3/2	2/1	3/1	3/2	2/1	3/1	3/2	2/1	3/1				
0.40	0.23	0.41	0.20	0.43	0.60	1.15	0.29	0.30	0.38	0.99	1.00	1.08	0.25	0.35	0.66	2.30	1.70	0.75	0.050
0.50	0.26	0.46	0.25	0.53	0.80	1.45	0.35	0.40	0.46	1.10	1.15	1.23	0.31	0.46	0.84	2.60	2.20	0.86	0.055
0.60	0.30	0.53	0.25	0.63	1.00	1.75	0.42	0.50	0.59	1.17	1.25	1.34	0.36	0.58	1.01	3.30	2.70	0.96	0.065
0.70	0.33	0.58	0.25	0.83	1.25	2.13	0.55	0.63	0.72	1.30	1.38	1.47	0.47	0.73	1.23	3.90	3.30	1.14	0.070
0.80	0.35	0.62	0.25	1.00	1.50	2.50	0.67	0.75	0.84	1.42	1.50	1.59	0.58	0.87	1.45	4.50	3.90	1.30	0.075
0.90	0.38	0.67	0.25	1.15	1.70	2.80	0.77	0.85	0.94	1.52	1.50	1.69	0.67	0.96	1.62	4.90	4.30	1.40	0.080
1.0	0.42	0.74	0.30	1.30	1.90	3.10	0.87	0.95	1.04	1.67	1.75	1.84	0.75	1.10	1.80	5.40	4.80	1.50	0.085
1.20	0.50	0.86	0.30	1.64	2.40	3.90	1.10	1.20	1.30	1.90	2.00	2.10	0.95	1.40	2.30	6.60	5.00	1.80	0.100

NOTES

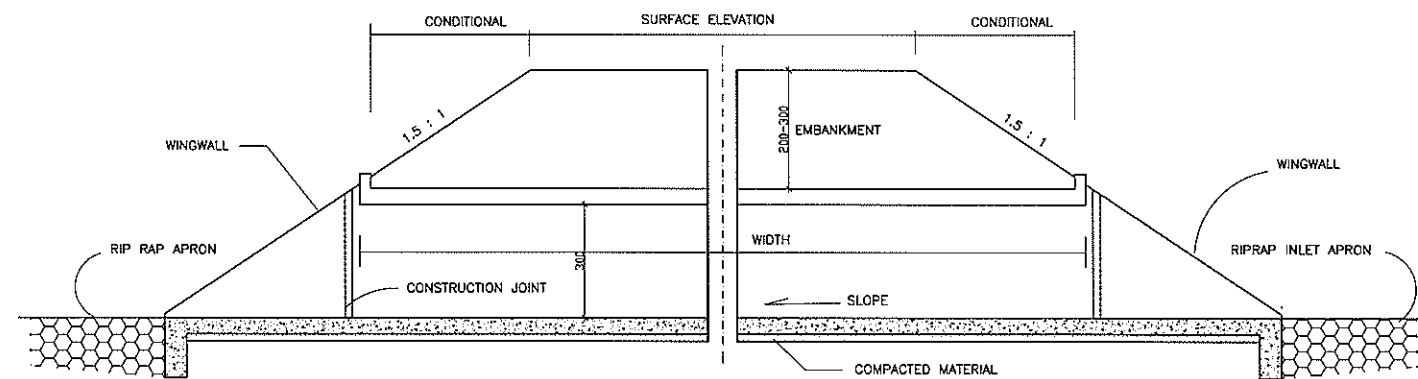
1. ALL DETAILS ON THIS SHEET NOT TO SCALE. ALL DIMENSIONS ARE GIVEN IN METERS
2. HEADWALLS SHALL BE CONSTRUCTED OF CLASS K-250 CONCRETE EXCEPT THAT THOSE HOUSING PIPES OF DIA AND LESS MAYBE CONSTRUCTED IN STONE MASONRY.



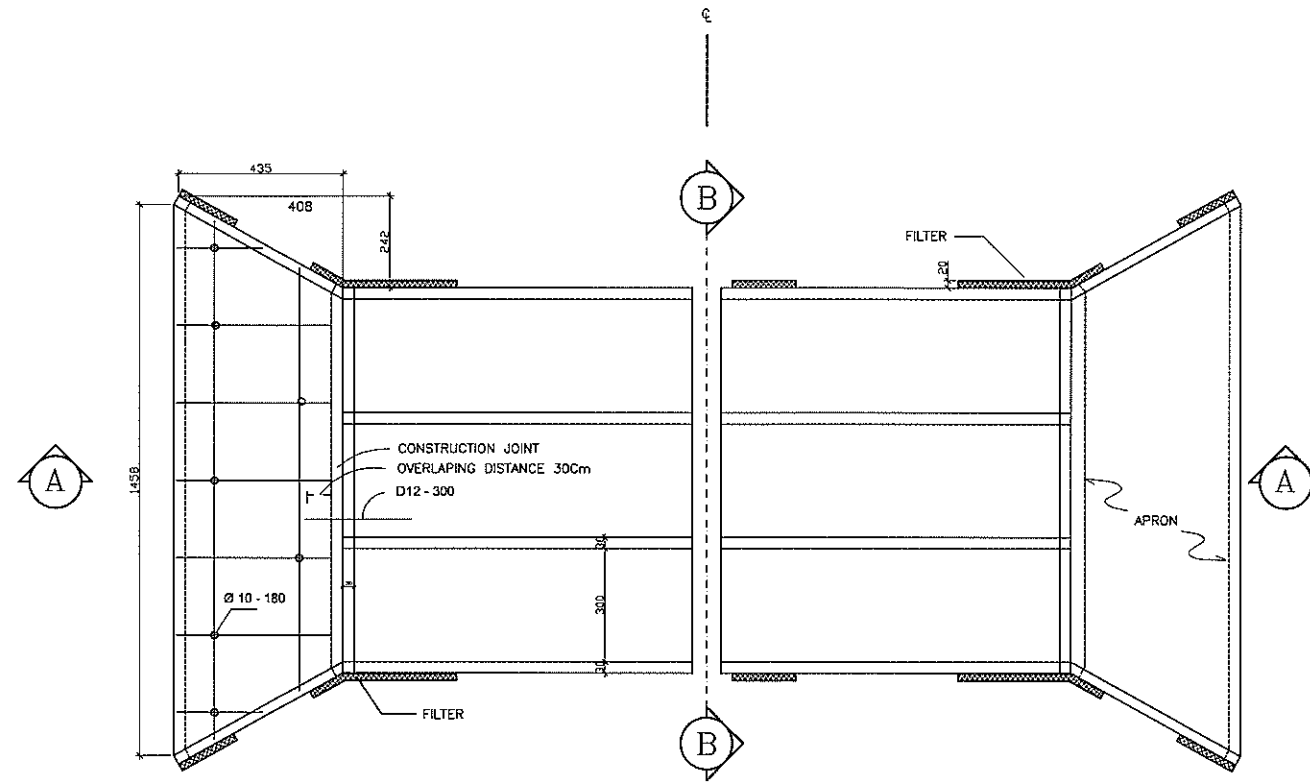
PLAN OF BOX CULVERT
SCALE 1 : 200



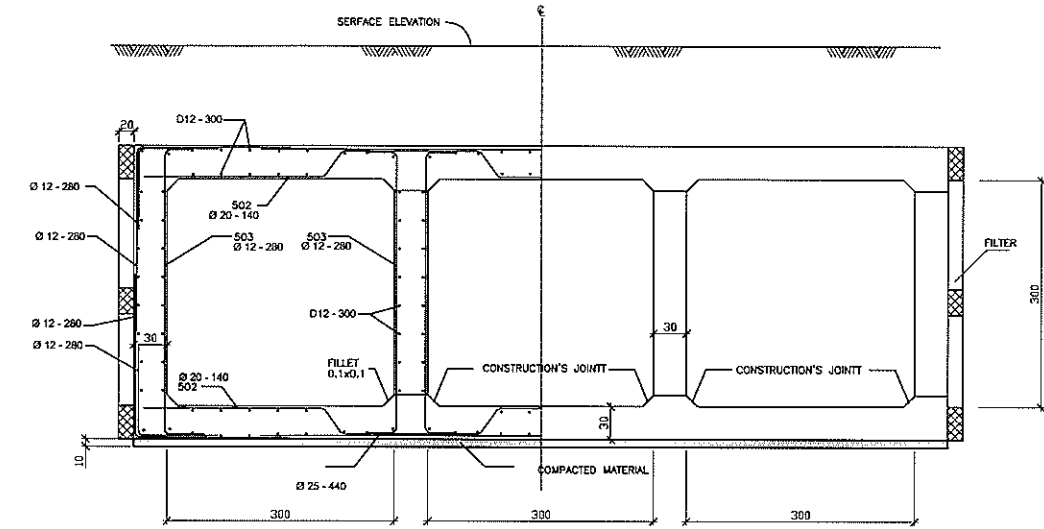
SECTION B-B
SCALE 1 : 80



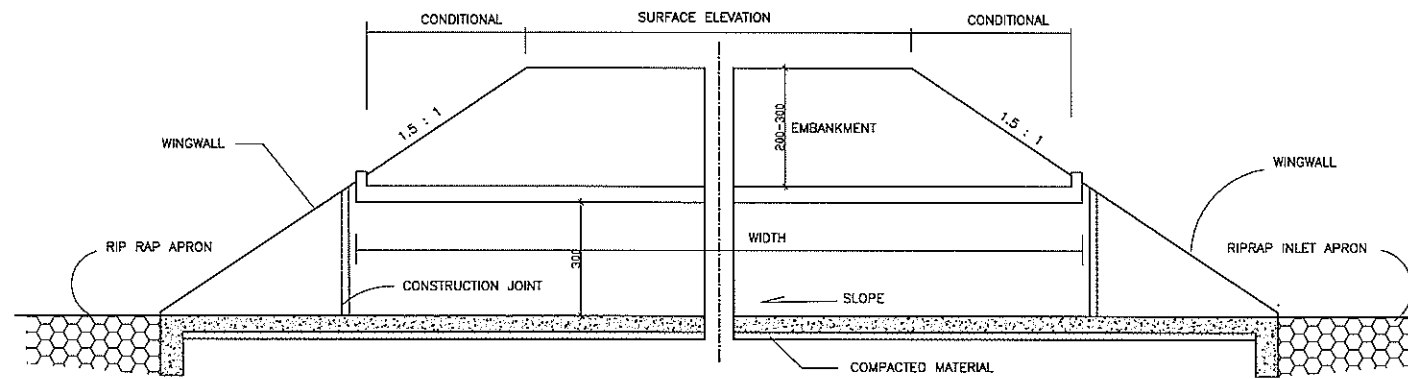
SECTION A-A
SCALE 1 : 200



PLAN OF BOX CULVERT
SCALE 1 : 200



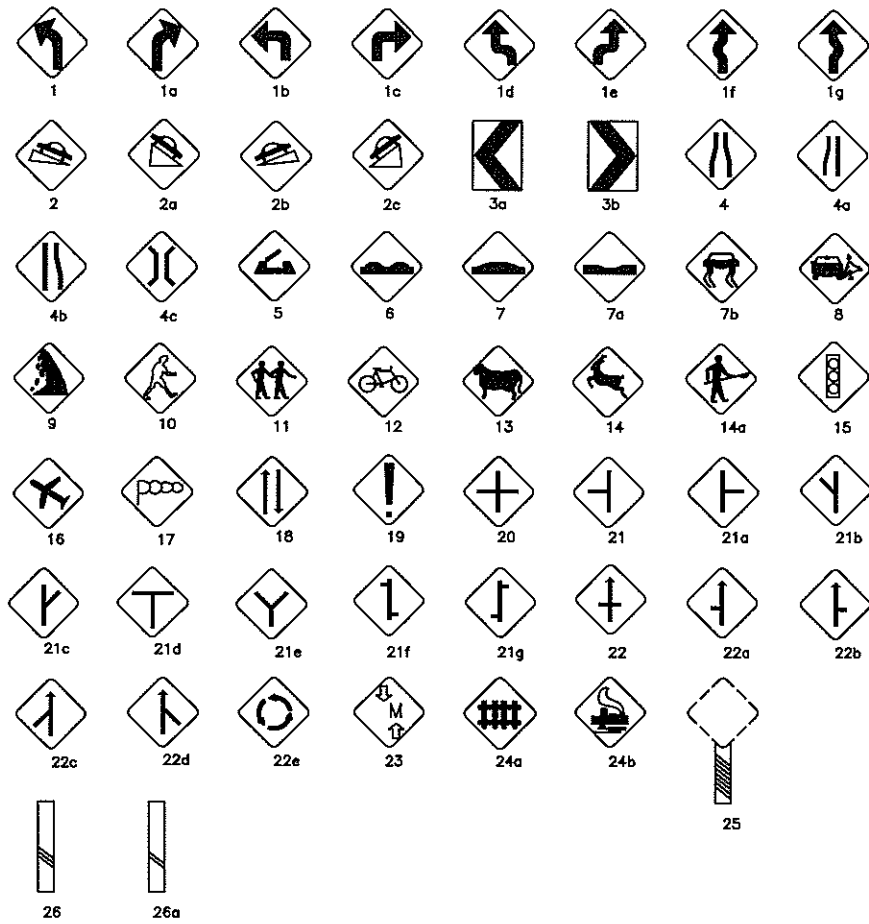
SECTION B-B
SCALE 1 : 80



SECTION A-A
SCALE 1 : 200

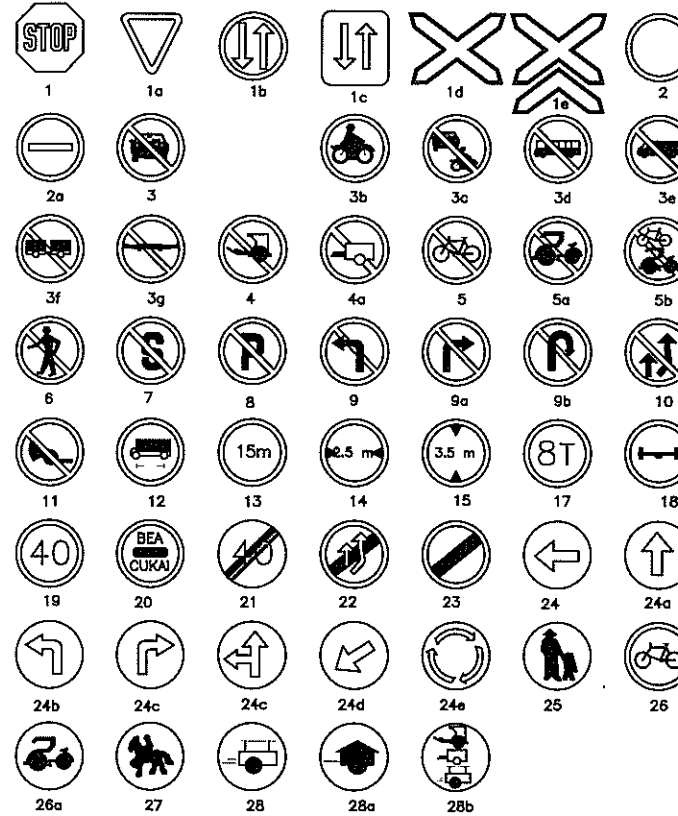
6. MISCELLANEOUS

WARNING SIGN (W)



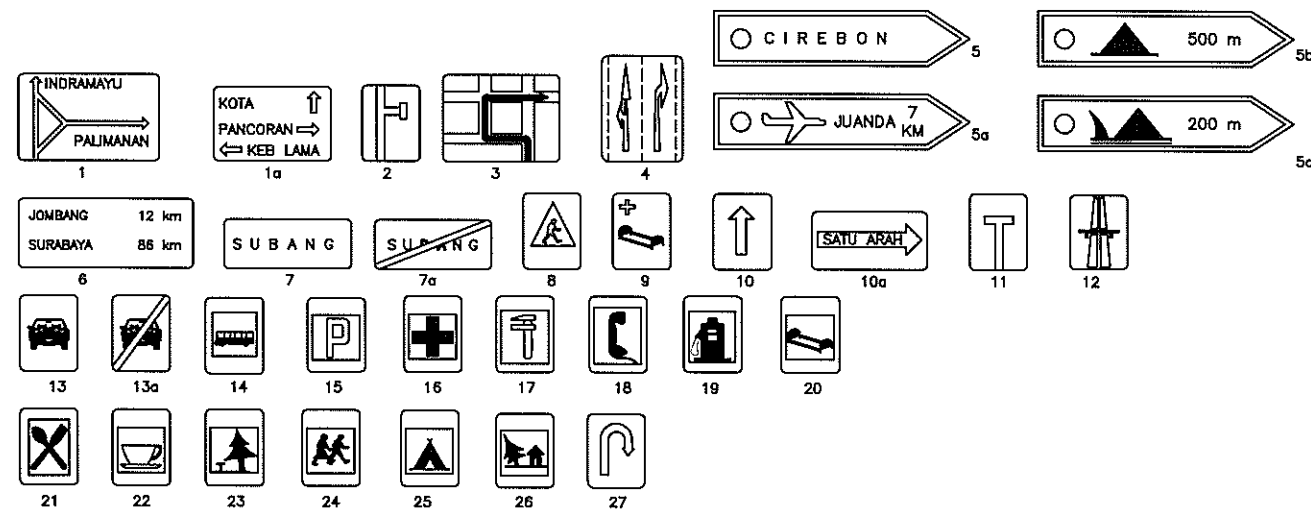
- 1 Left Bend
- 1a Right Bend
- 1b Left Turn
- 1c Right Turn
- 1d Double Bend
- 1e Double Bend
- 1f Many Bends
- 1g Many Bends
- 2 Descent
- 2a Steep Descent
- 2b Ascent
- 2c Steep Ascent
- 3a Left Turn Guidance
- 3b Right Turn Guidance
- 4 Narrower Carriageway
- 4a Left Narrower
- 4b Right Narrower
- 4c Bridge
- 5 Swing Bridge
- 6 Uneven Road
- 7 Uneven Road
- 7a Uneven Road
- 7b Slippery
- 8 Loose Gravel
- 9 Falling Rocks
- 10 Pedestrian Crossing
- 11 Children
- 12 Cyclists Crossing
- 13 Cattle Crossing
- 14 Animal Crossing
- 14a Road Works
- 15 Light Signals
- 16 Air Field
- 17 Cross Wind
- 18 Two - Way Traffic
- 19 Others Dangers
- 20 Intersection
- 21 Intersection
- 21a Intersection
- 21b Intersection
- 21c Intersection
- 21d Intersection
- 21e Intersection
- 21f Intersection
- 21g Intersection
- 21h Intersection
- 21i Intersection
- 22 Priority Intersection
- 22a Priority Intersection
- 22b Priority Intersection
- 22c Priority Intersection
- 22d Priority Intersection
- 22e Roundabout
- 23 Railway Level Crossing
- 24a Railway Crossing With Gate
- 24b Railway Crossing Without Gate
- 25 Additional Signs of Approach to Level-Crossing
- 26a Additional Signs of Approach to Level-Crossing
- 26b Additional Signs of Approach to Level-Crossing

REGULATION SIGN (R)

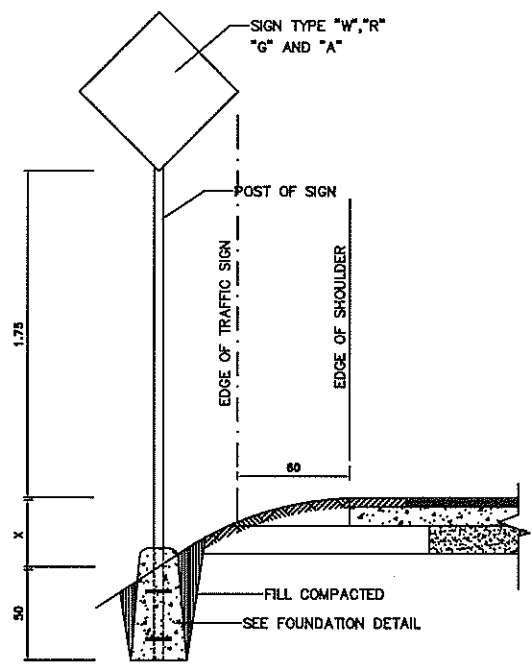


- 1 Stop
- 1a Give Way
- 1b Priority oncoming Traffic
- 1c Priority Over Oncoming Traffic
- 1d Immediate Vicinity of Level Crossing
- 1e Immediate Vicinity of Level Crossing
- 2 Closed to All Vehicles in Both Direction
- 2a No Entry
- 3 No Entry Passenger Car
- 3b No Entry for Motor Cycle
- 3c No Entry for Vehicle and Motor Cycle
- 3d No Entry for Bus
- 3e No Entry Commercial Vehicles
- 3f No Entry for Trailers
- 3g No Entry for Articulated Vehicles
- 4 No Entry for Dokar
- 4a No Entry for Wagen
- 5 No Entry for Cycle
- 5a No Entry for Becak
- 5b No Entry for Becak and Cycle
- 6 No Entry For Pedestrian
- 7 Stopping Prohibited
- 8 Parking Prohibited
- 9 No Turn Left
- 9a No Turn Right
- 9b No U - Turn
- 10 No Overtaking
- 11 Prohibition of the Use Audible Warning Devices
- 12 No Entry for Vehicles or Combinations Vehicles ExceedingMetres in Length
- 13 Driving or Vehicles Less ThanMetres Apart Prohibited
- 14 No Entry for Vehicle Having an Overall Width ExceedingMetres
- 15 No Entry for Vehicle Having an Overall Height ExceedingMetres
- 17 No Entry for Vehicles ExceedingThan Laden Weight
- 18 No Entry Vehicles Having A Weight Exceeding....Ton on one Axle
- 19 Speed Limit
- 20 Prohibition of Passing Without Stopping
- 21 End of Speed Limit
- 22 End Of No Overtaking
- 23 End Of Prohibition
- 24 Direction to be Followed
- 24a Direction to be Followed
- 24b Direction to be Followed
- 24c Direction to be Followed
- 24d Direction to be Followed
- 24e Direction to be Followed Around Roundabout
- 25 Compulsary Foot - Path
- 26 Compulsary Cycle
- 26a Compulsary Becak
- 27 Compulsary Horseback
- 28 Compulsary Dokar
- 28a Compulsary Wagon
- 28b Compulsary Wagon

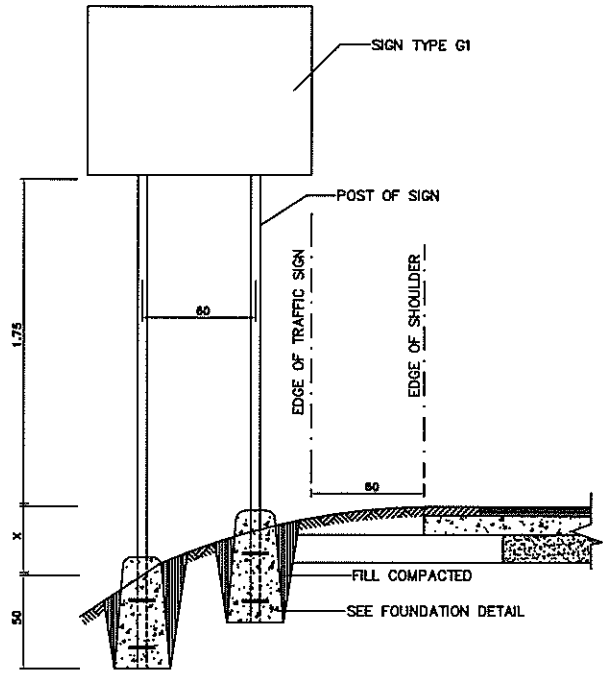
GUIDE SIGN (G)



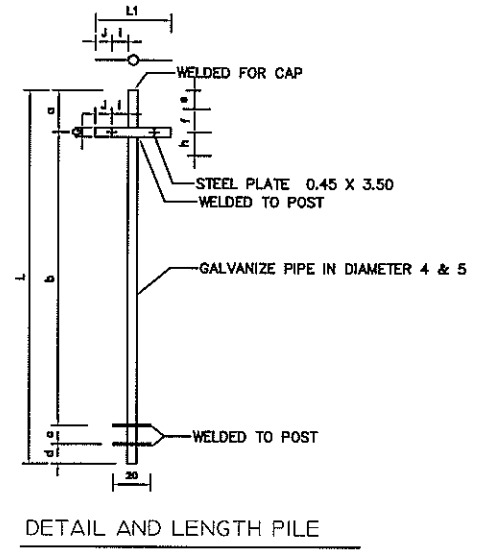
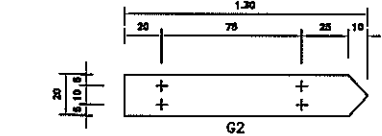
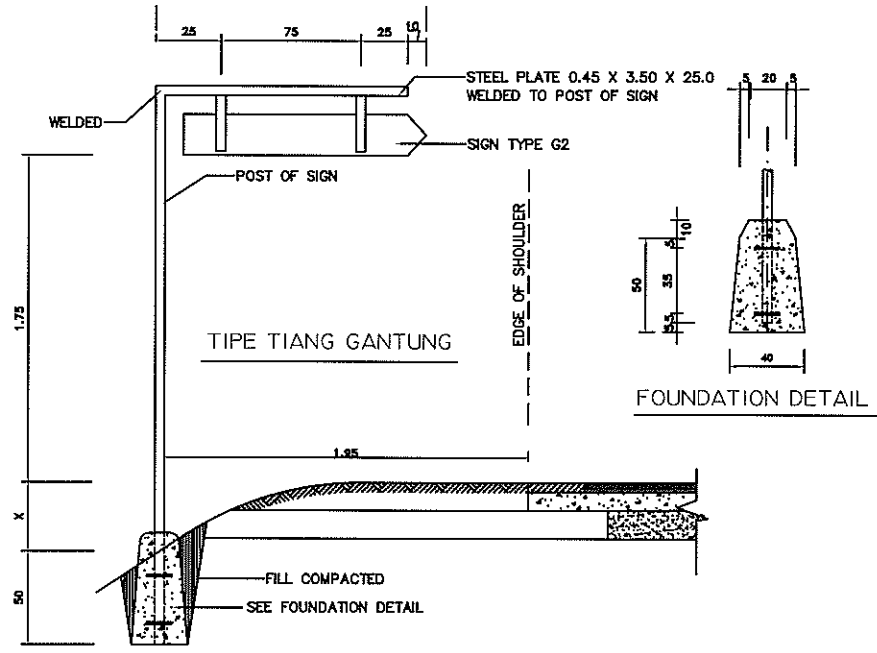
- 1 Example of Advances Direction Signs
- 1a Example of Advances Direction Signs
- 2 No Through Road
- 3 Example of Advances Direction Signs for Route to be Followed
- 4 Example of Signs for Proselection at Interaction on Roads With Several Lanes
- 5 Example of Signs for Direction Place
- 5a Example of Signs for Airfield Direction
- 5b Example of Signs for Camping Site
- 5c Example of Signs for Youth Hostel
- 6 Confirmatory Sign
- 7 Place Identification Sign
- 7a End of Place Identification Sign
- 8 Pedestrian Crossing
- 9 Hospital Sign
- 10 One - Way Road
- 10a One - Way Road
- 11 No Through Road
- 12 Entry To Tollroad
- 13 Road of Motor Vehicles
- 13a End of Road of Motor Vehicles
- 14 Bus Stop
- 15 Parking Area
- 16 First - Aid Station
- 17 Breakdown Service
- 18 Telephone
- 19 Fuel Station
- 20 Hotel or Motel
- 21 Restaurant
- 22 Cafeteria
- 23 Picnic Site
- 24 Starting - Point for Walks
- 25 Camping Site
- 26 Youth Hotel
- 27 U - Turn



SINGLE PILE TYPE
SCALE 1: 20

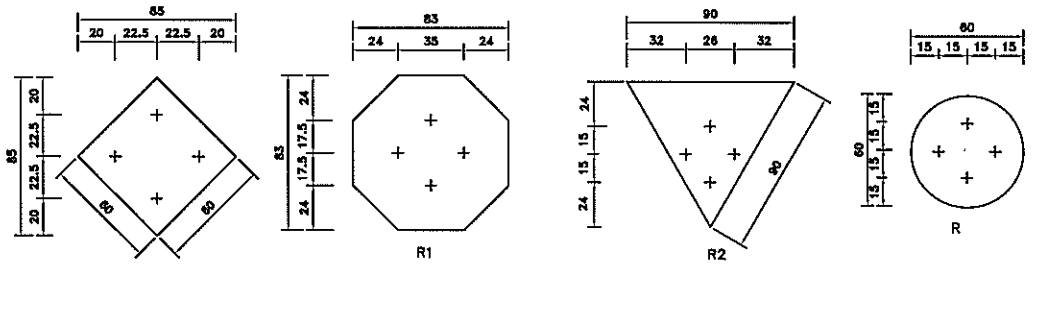


DOUBLE PILE TYPE
SCALE 1: 20

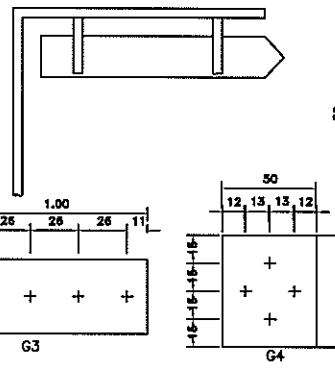


DETAIL AND LENGTH PILE

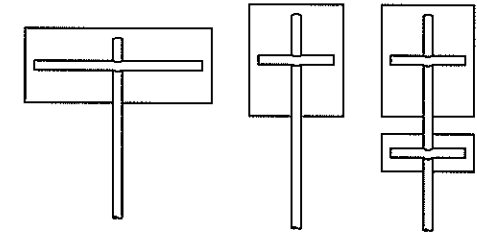
TYPICAL TRAFFIC SIGN
SCALE 1: 20



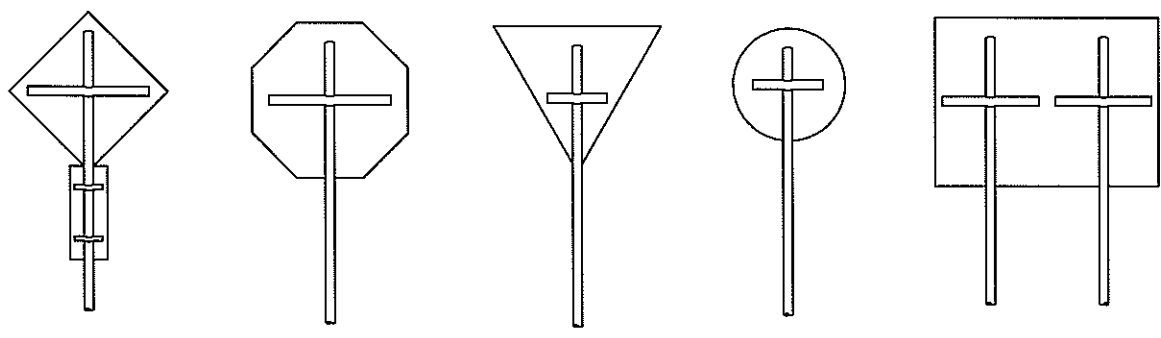
DIMENSION TRAFFIC SIGN
SCALE 1: 20



DIMENSION TRAFFIC SIGN
SCALE 1: 20



TYPICAL BACK VIEW
SCALE 1: 20



TYPICAL BACK VIEW
SCALE 1: 20

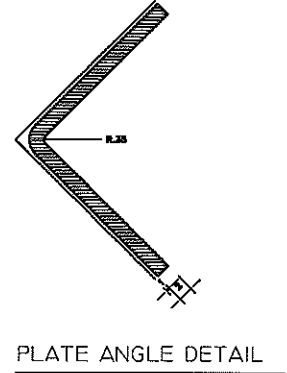


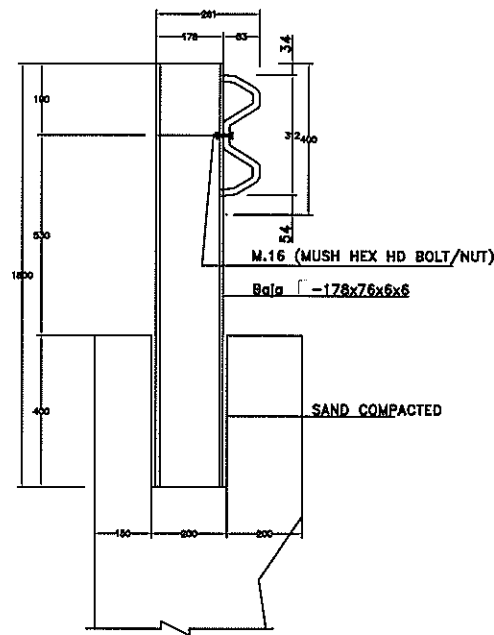
PLATE ANGLE DETAIL

TYPE	W	R1	R2	R3	G1	G2	G3	G5	A
a	37	37	34	25	40	-	15	25	HOOKED TO POST OF SIGN
b	223+ X	222+ X	209 + X	210 + X	$\frac{225 + X}{225 + X1}$	-	200 + X	21- + X	
c	20	20	20	20	20	-	20	20	
d	20	20	20	20	20	-	20	20	
e	14.5	19.5	19	10	20	-	15	10	
f	22.5	17.5	15	15	20	-	-	15	
g	5	5	5	5	4	4	4	4	
h	22.5	175	15	15	20	-	-	15	
L	300 + X	299 + X	283 + X	275 + X	$\frac{303 + X}{305 + X1}$	$\frac{250 + X}{127}$	255 + X	275 + X	
i	22.5	17.5	13	15	20	-	13	13	
j	5	5	3	5	5	-	26	5	
L1	55	45	32	40	50	-	88	36	

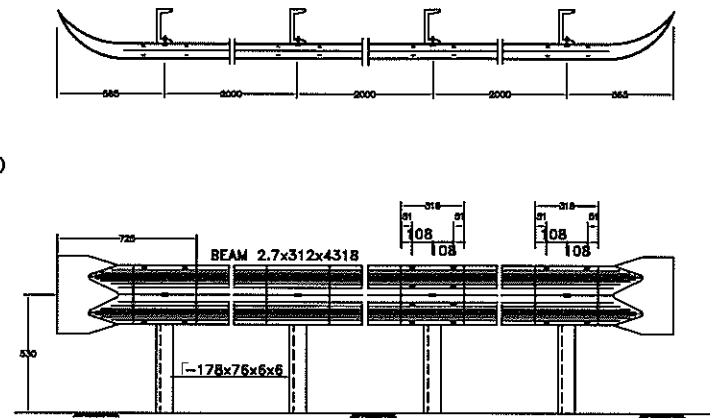
X- VARIES ACCORDED TO CUT & FILL SLOPE
X1= (60 X S) + X

GUARDRAIL STANDARD TYPE A

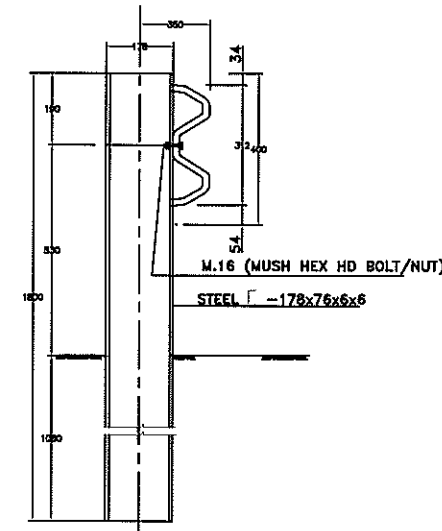
GUARDRAIL STANDARD TYPE B



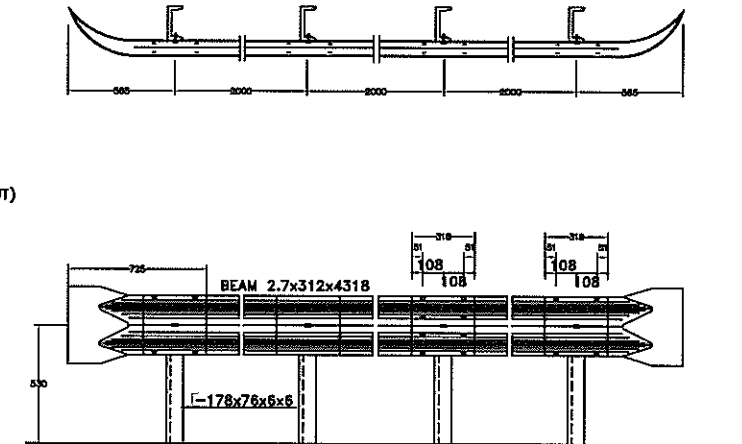
GUARDRAIL POST DETAIL
SCALE : 1:10



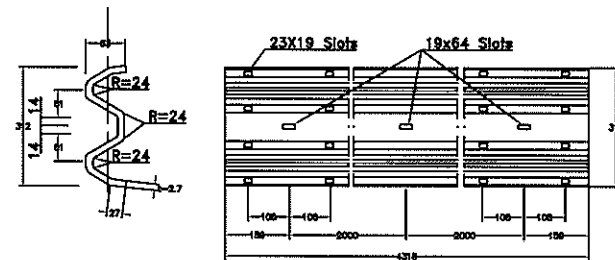
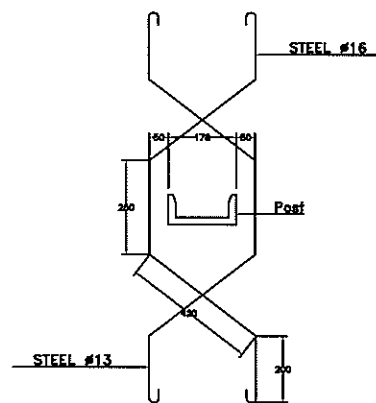
ELEV. AND PROFILE
SCALE : 1:20



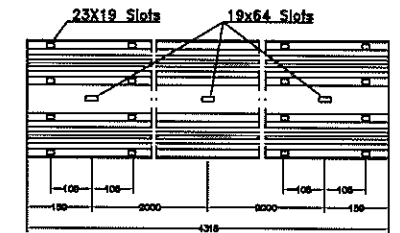
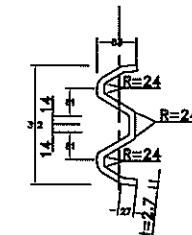
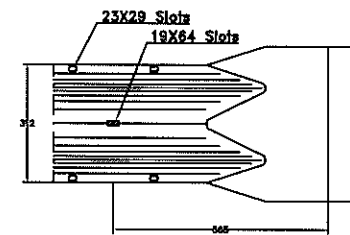
GUARDRAIL POST DETAIL
SCALE : 1:10



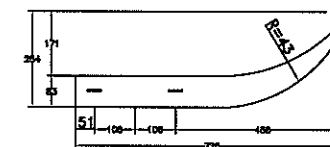
ELEV. AND PROFILE
SCALE : 1:20



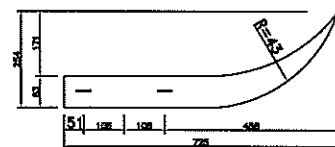
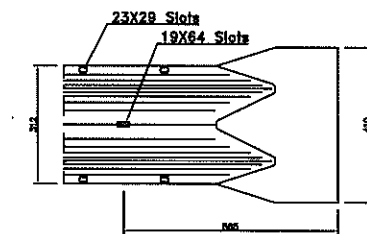
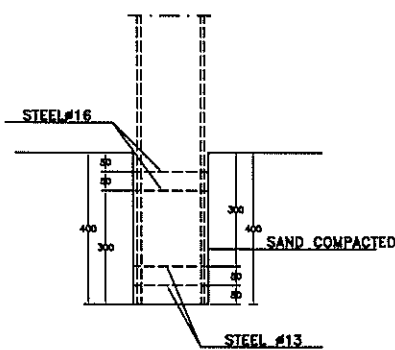
DETAIL BEAM
SCALE : 1:10



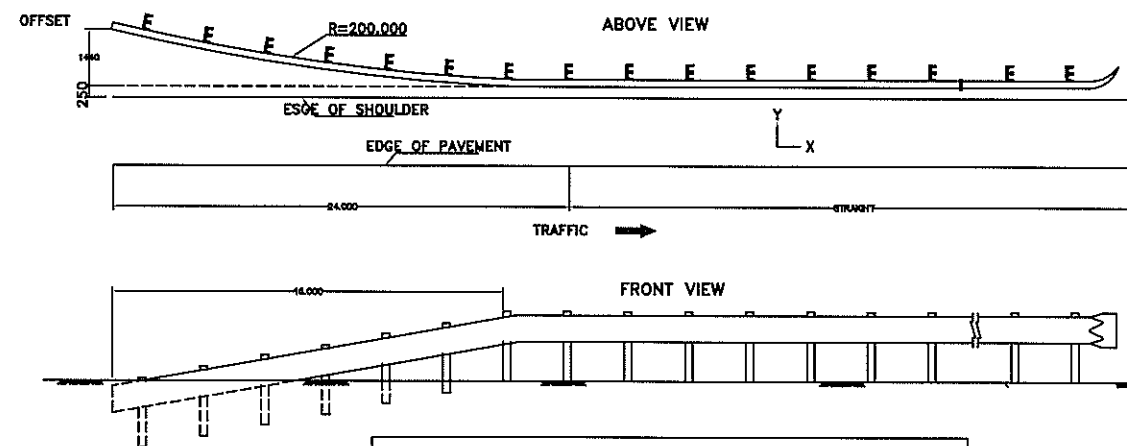
DETAIL BEAM
SKALA : 1:10



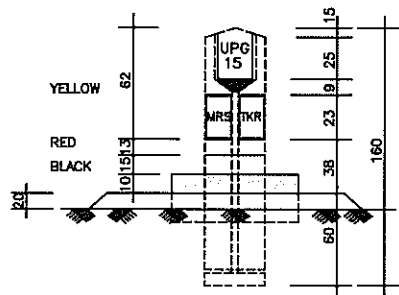
END BEAM DETAIL
SCALE : 1:10



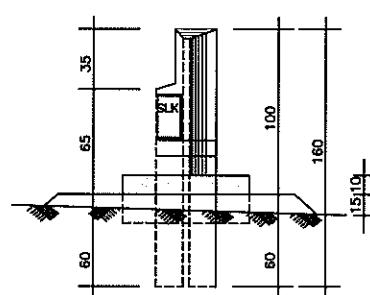
END BEAM DETAIL
SCALE : 1:10



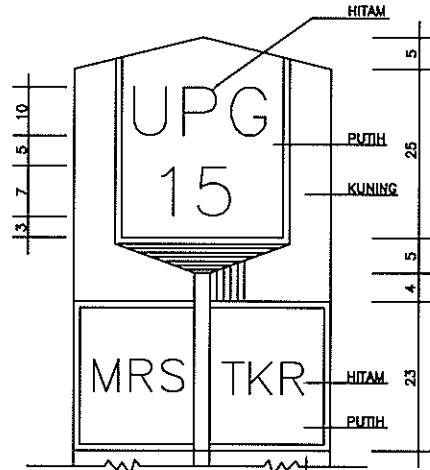
" OFFSET "						
X	4.000	8.000	12.000	16.000	20.000	24.000
Y	0.00	180	360	640	1.000	1.440



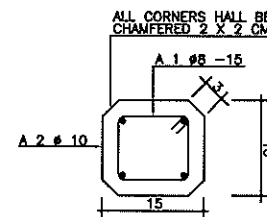
TAMPAK DEPAN



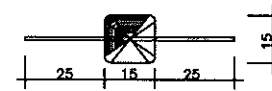
TAMPAK SAMPING



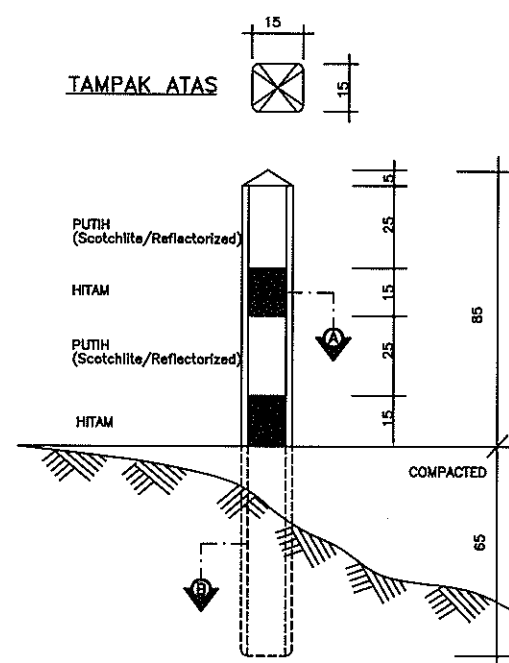
DETAIL 1
SKALA 1:5



POTONGAN A - A
SKALA 1:5

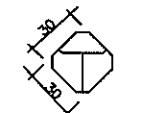


POTONGAN B - B
SKALA 1:5

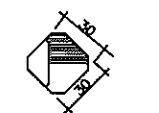


TAMPAK ATAS

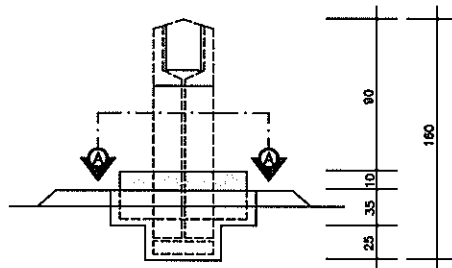
ELEVASI
SKALA 1:10



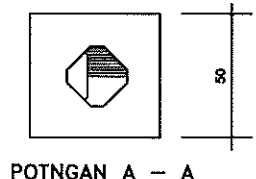
TAMPAK ATAS



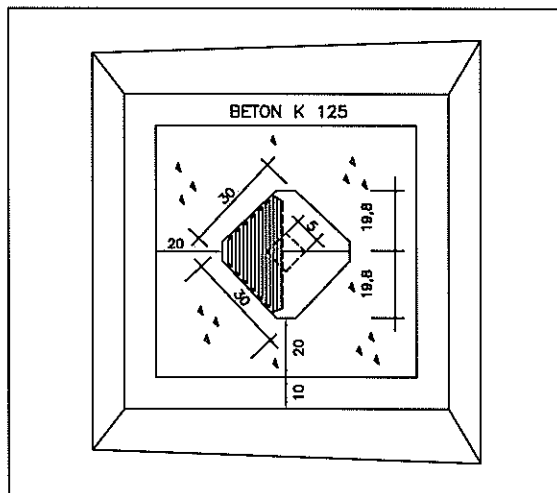
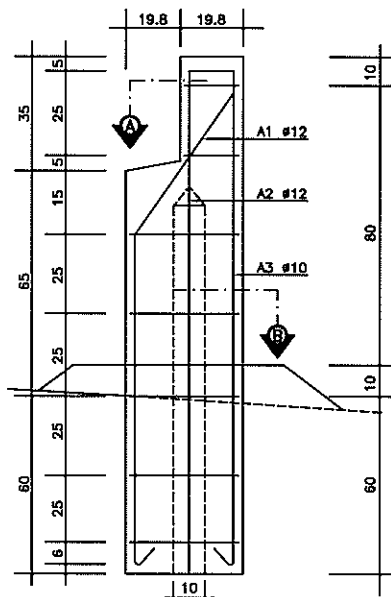
TAMPAK ATAS



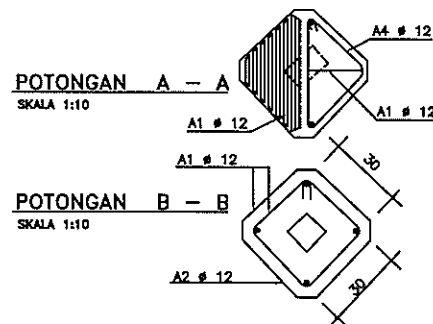
ELEVASI
SKALA 1:20



POTONGAN A - A
SKALA 1:20

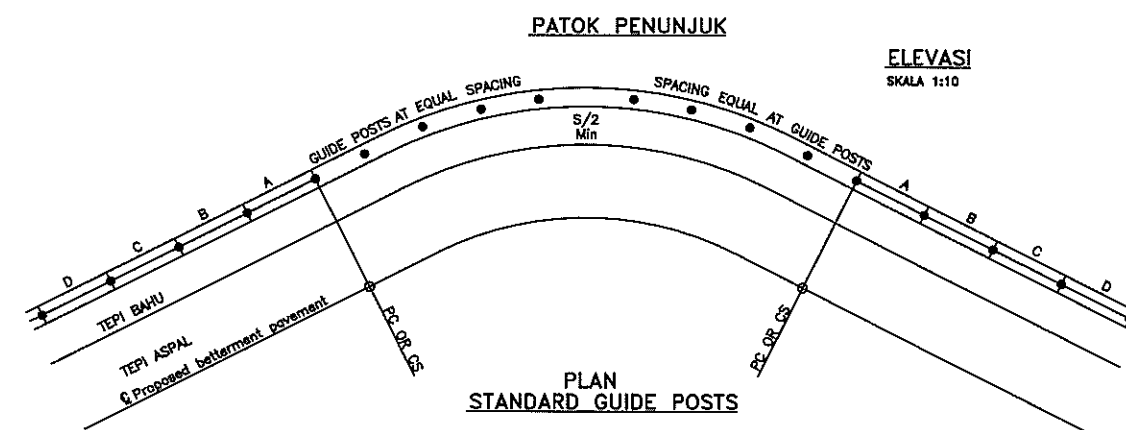


DENAH STANDAR PATOK KILOMETER
SKALA 1:10



POTONGAN A - A
SKALA 1:10

POTONGAN B - B
SKALA 1:10



PATOK PENUNJUK

PLAN
STANDARD GUIDE POSTS

CATATAN

- JARAK PATOK PENUNJUK PATOK DITUNJUKAN PADA TABEL A
- LOKASI PATOK PENUNJUK DITUNJUKAN DIATAS

PEMBESIAN PATOK KILOMETER

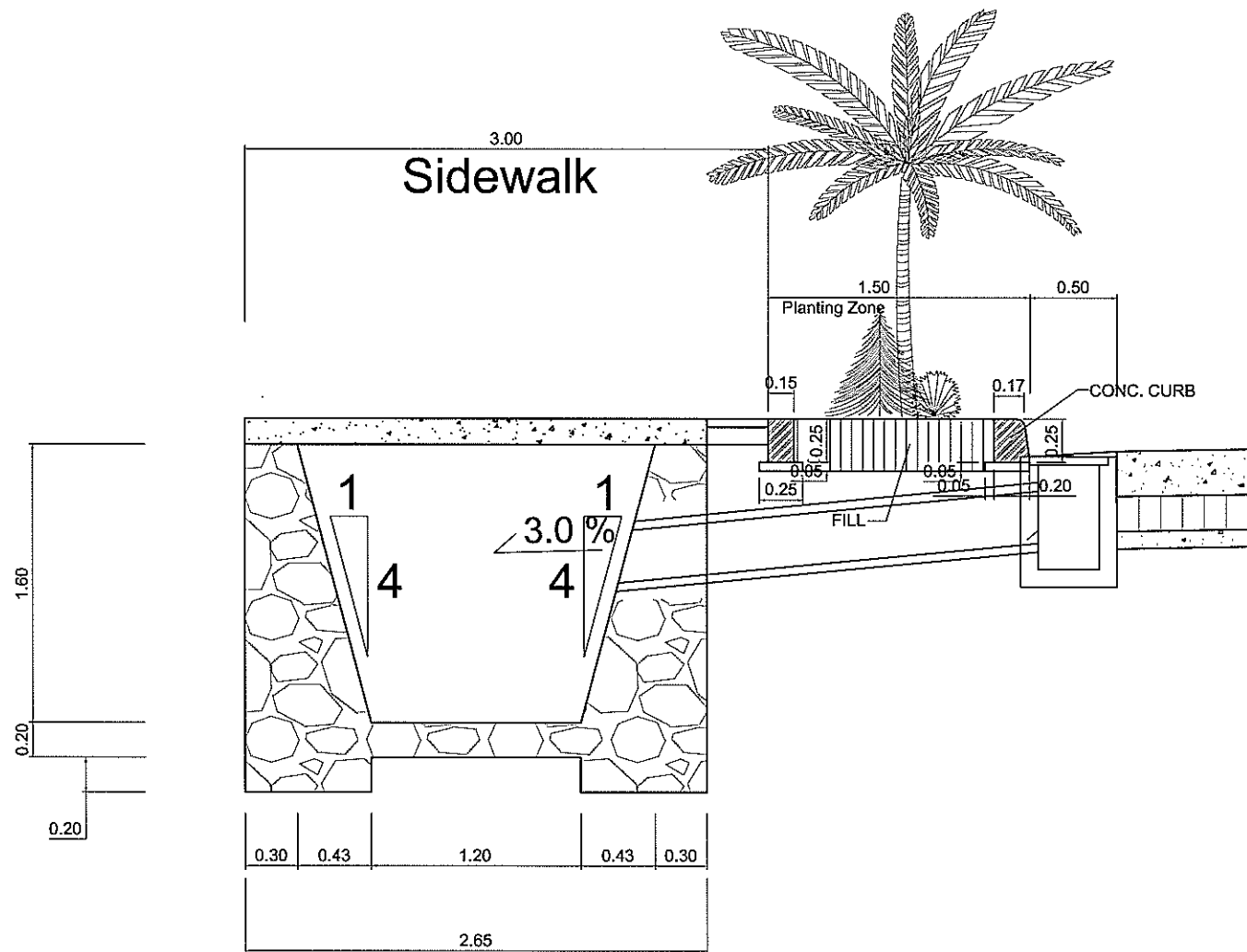
NO.	TYPE	DIMENSION				LENGTH (m)	QUANTITY (ra)	TOT LENGTH (kg/m)	UNIT WEIGHT (kg/m)	TOT WEIGHT (kg)	REMARKS
		a	b	c	d						
A1	4	12	152	57	106	3.38	1	3.38	0.848	2.866	
A2	3	12	152	35	152	3.62	1	3.62	0.848	3.070	
A3	2	10	25	25	25	1.25	5	6.15	0.617	3.794	
A4	5	12	35	25	25	1.08	2	2.16	0.848	1.832	
TOTAL										11.562	

PEMBESIAN PATOK PENUNJUK

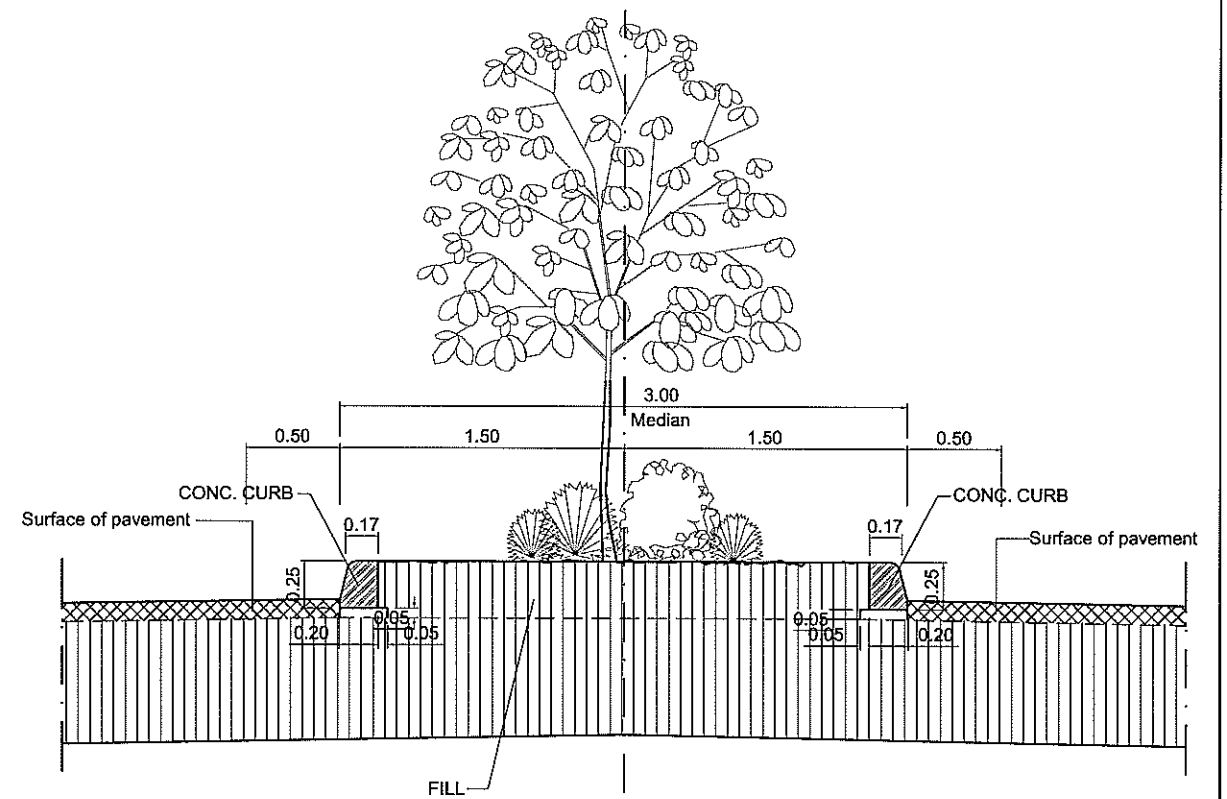
NO.	TYPE	DIMENSION				LENGTH (m)	QUANTITY (ra)	TOT LENGTH (kg/m)	UNIT WEIGHT (kg/m)	TOT WEIGHT (kg)	REMARKS
		a	b	c	d						
A1	2	8	12	12	12	0.71	8	5.68	0.395	2.243	
A2	1	10	140			1.58	4	6.32	0.617	3.900	
A3	6	12	80			0.60		0.60	0.848	0.509	
TOTAL										6.652	

TABEL A
JARAK PATOK PENUNJUK

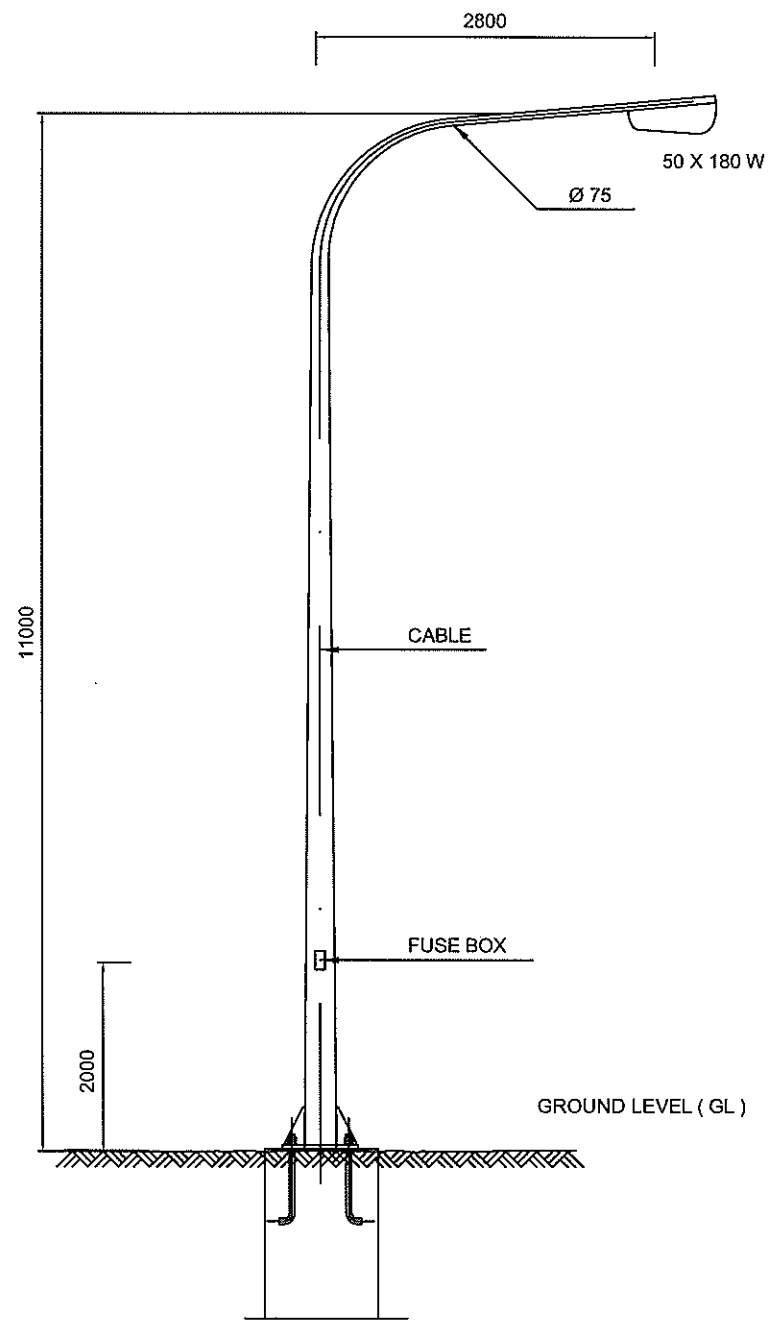
RADIUS-CURVE	JARAK-METER			
	S	A	B	C
180 - 200	15	20	25	30
100 - 180	14	20	25	10
120 - 150	13	15	20	25
90 - 120	12	15	20	25
60 - 90	10	15	20	20
30 - 60	8	10	20	20
30a - 30	6	10	15	15



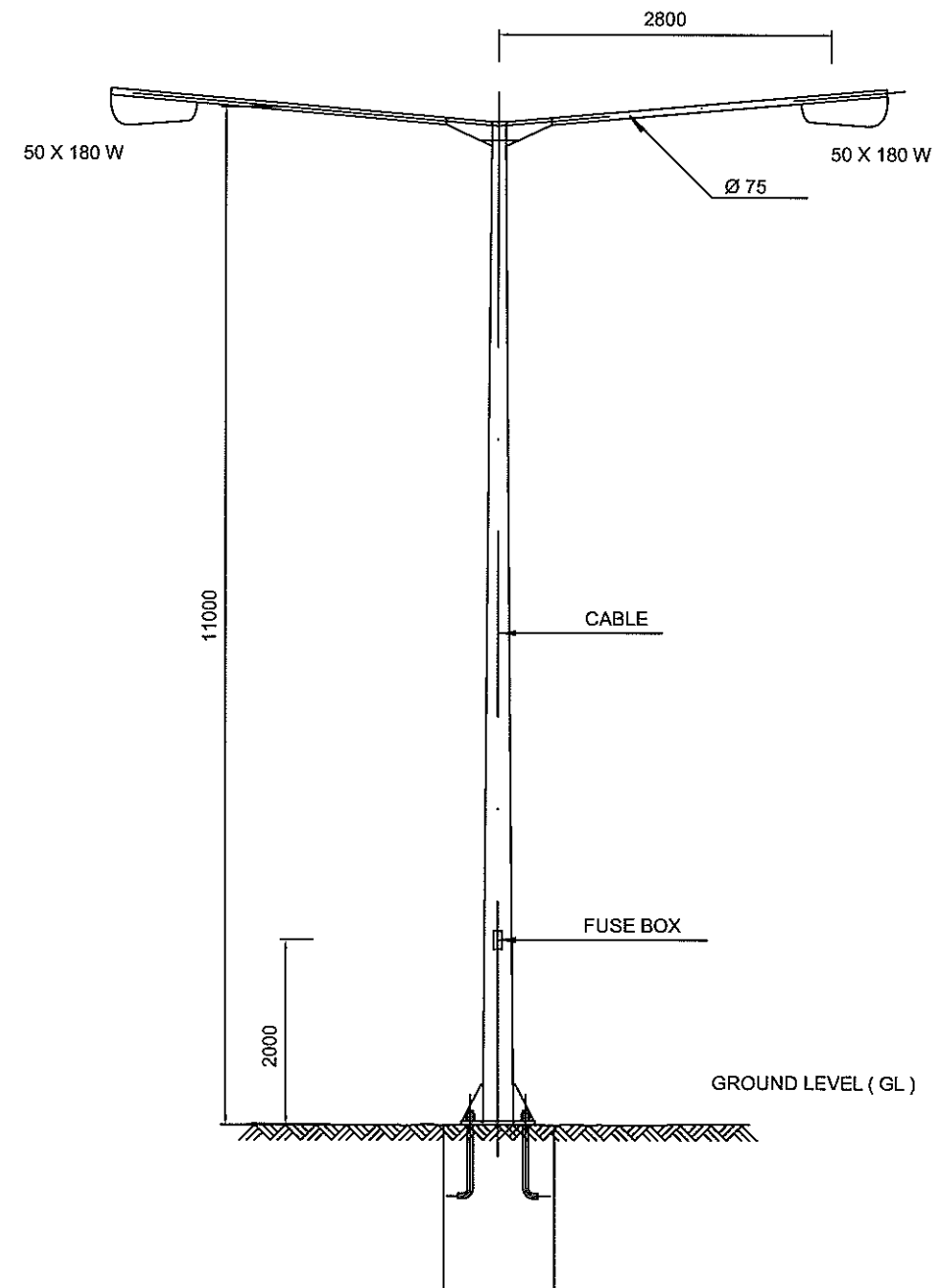
SIDE WALK AND PLANTING ZONE
scale 1/40



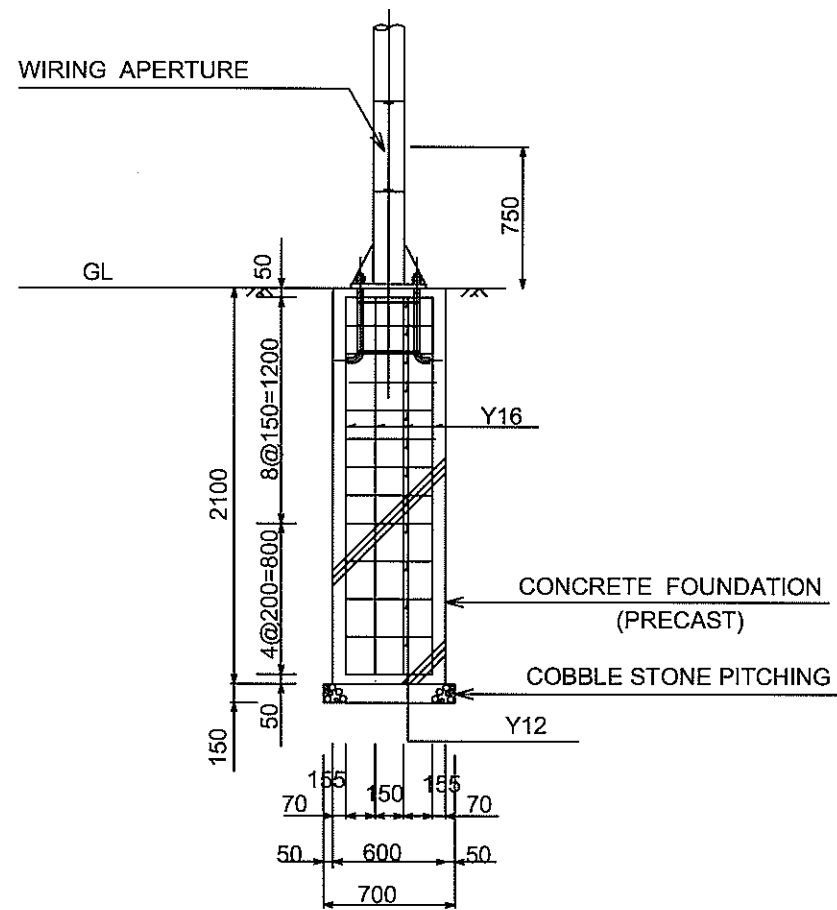
MEDIAN TYPE - 1
scale 1/40



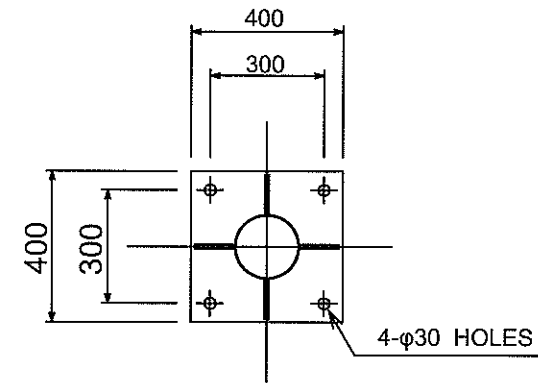
NOTE
 STREET LIGHTING TYPE -A (1) & (2)
 A(1) WITH FONDATION
 A(2) WITHOUT FOUNDATION



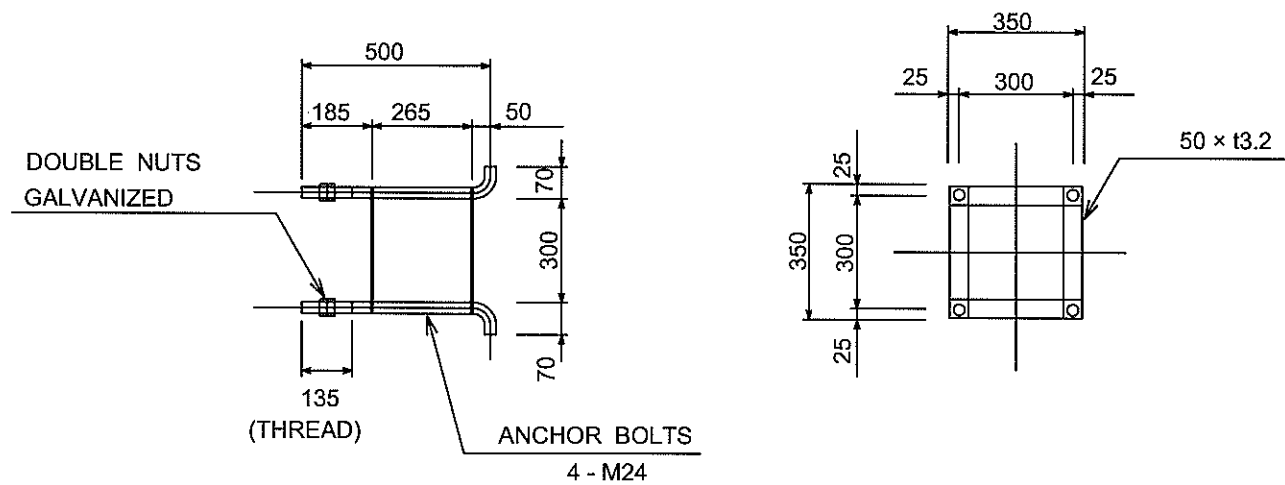
NOTE
 STREET LIGHTING TYPE -B (1) & (2)
 A(1) WITH FONDATION
 A(2) WITHOUT FOUNDATION



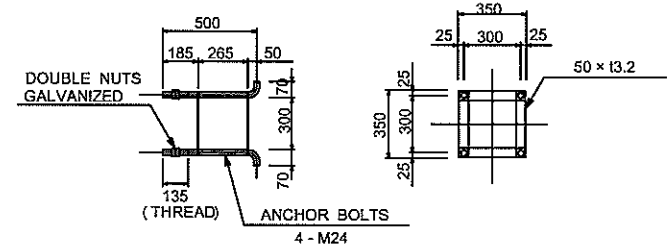
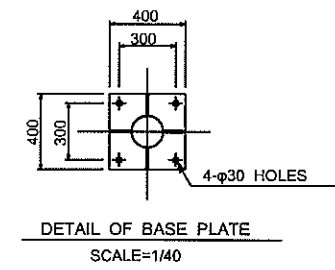
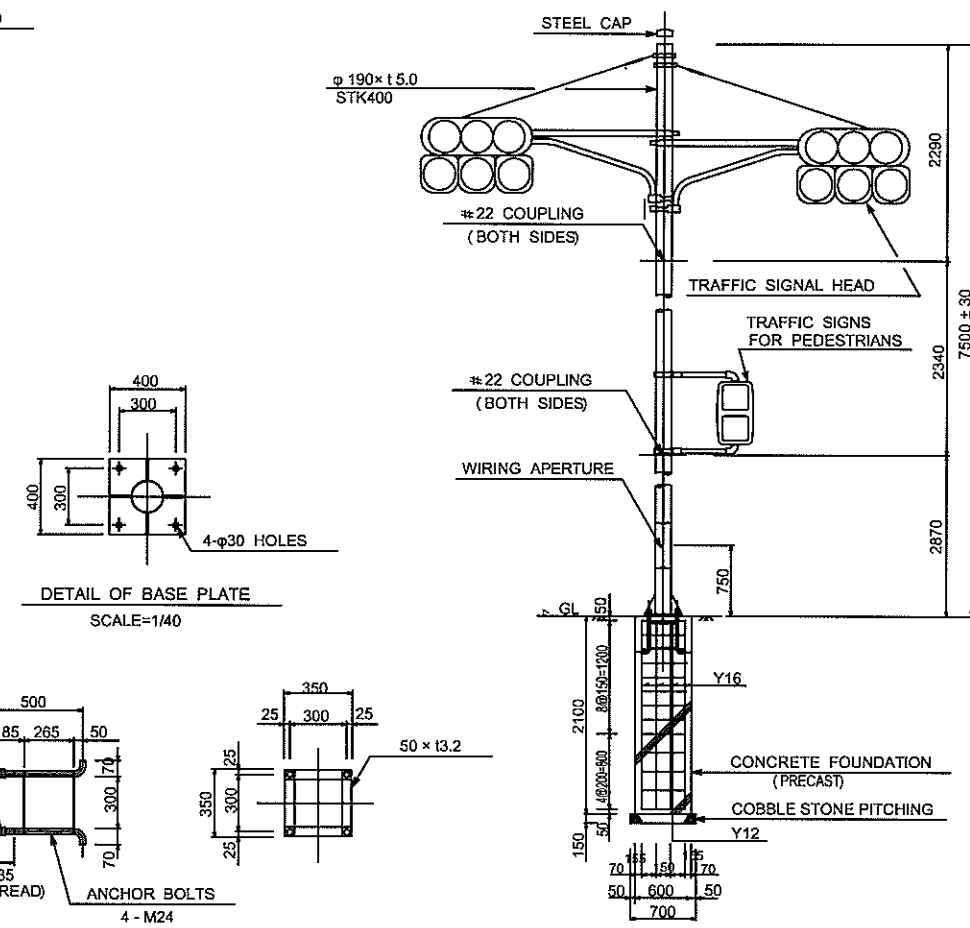
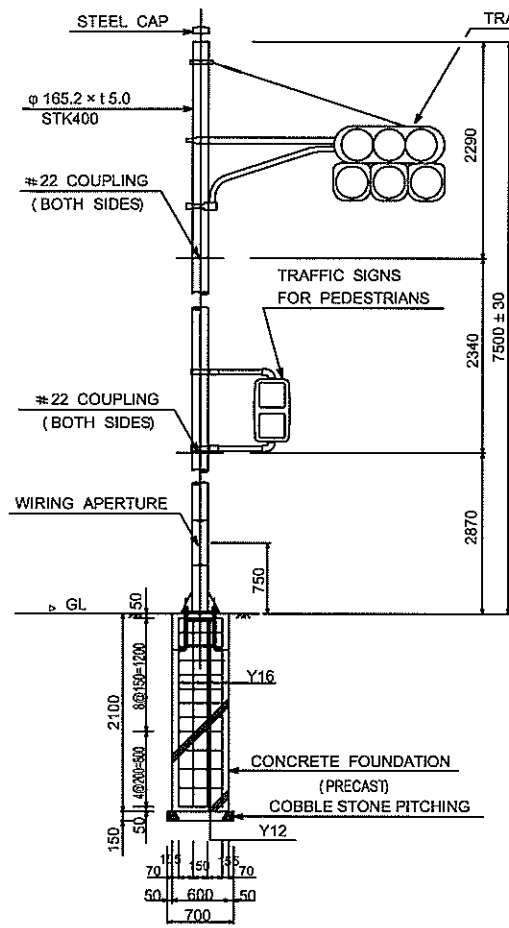
STANDALONE POLE
SCALE=1/80



DETAIL OF BASE PLATE
SCALE=1/40



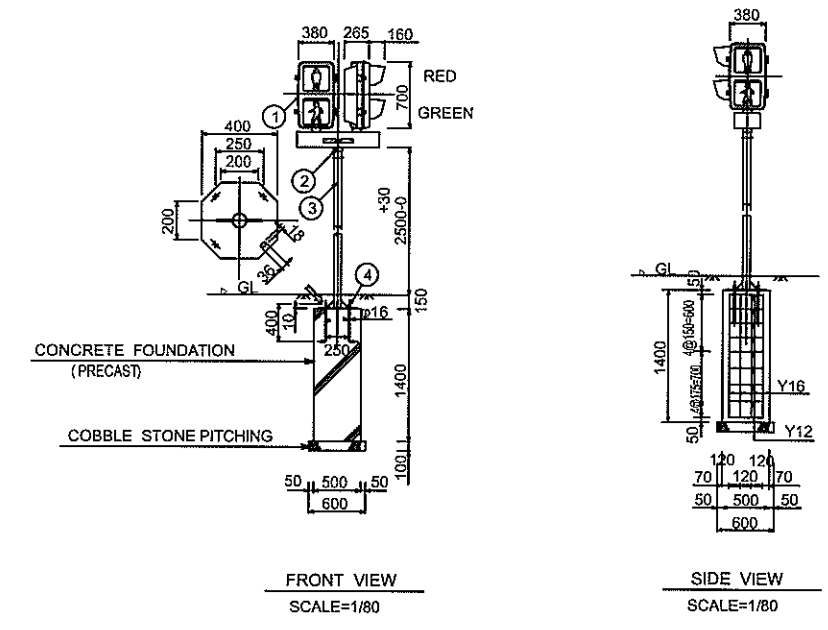
ANCHOR BOLTS FOR BASE PLATE
SCALE=1/40



STANDALONE POLE
SCALE=1/80

ANCHOR BOLTS FOR BASE PLATE
SCALE=1/40

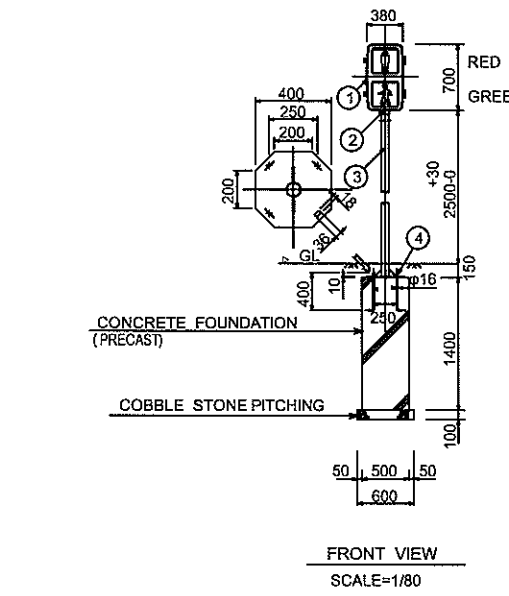
STANDALONE POLE
SCALE=1/80



FRONT VIEW SCALE=1/80
SIDE VIEW SCALE=1/80

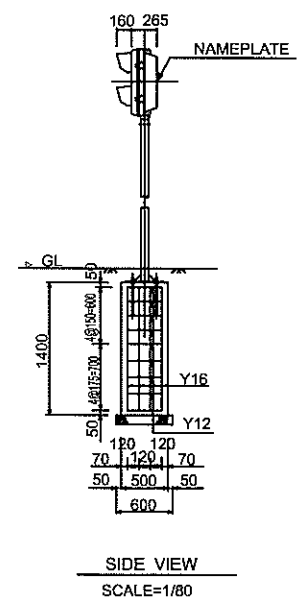
NOTE 1: Colors of painting: Munsell 2.5pb7/2 for both outer and inner surfaces of Signal Lights.
2: The Standalone Pole is zinc-plated by hot dipping.

NO.	PART	MATERIAL	QTY	REMARKS
4	ANCHOR BOLTS	SS41	4	WITH SPRINGS FLAT WASHERS AND NUTS
3	STANDALONE POLE	STK41	1	φ76.3 T2.8
2	FLANGE	FC20	1	
1	LIGHTS		2 SET	



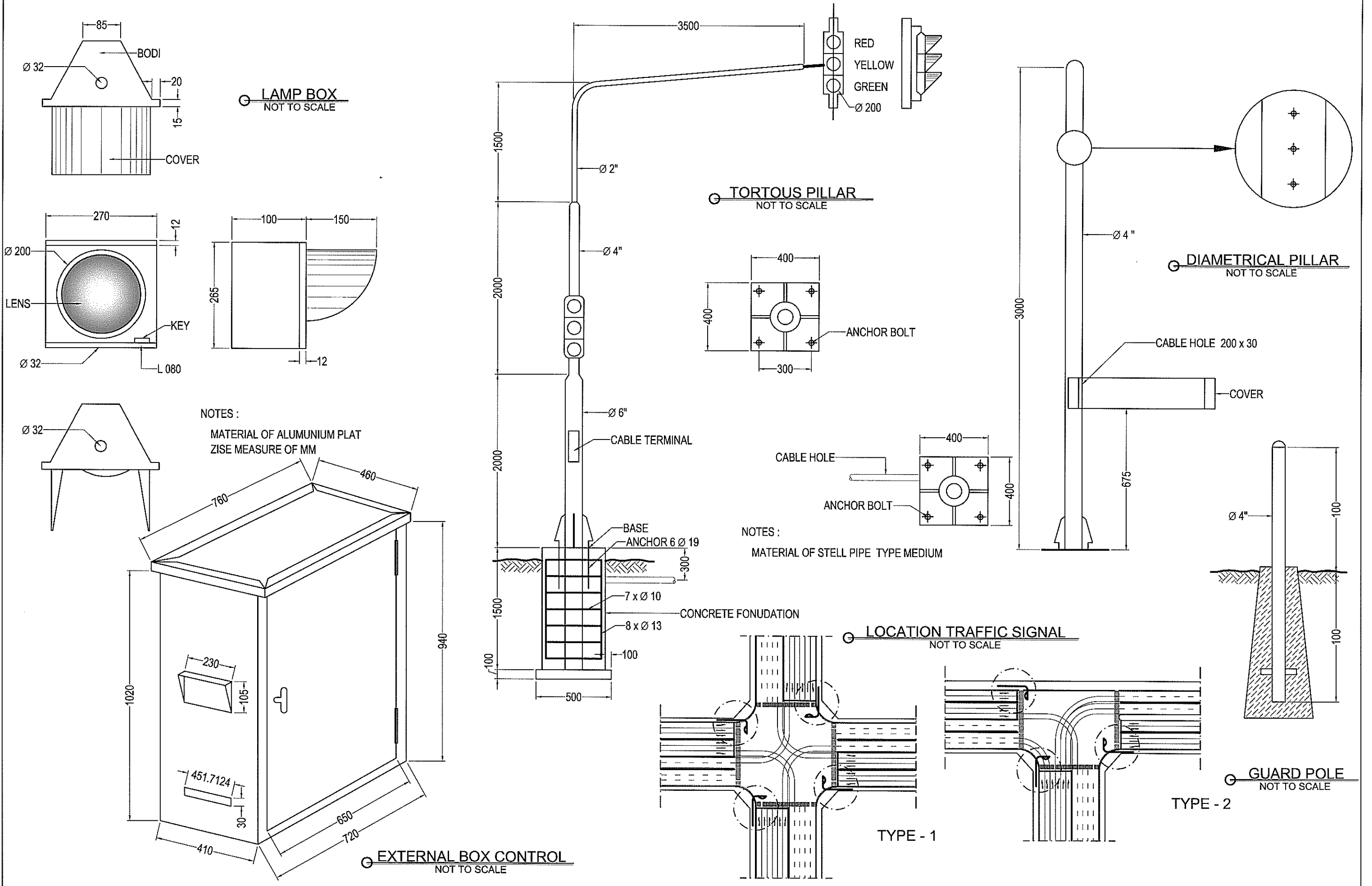
NOTE 1: Colors of painting: Munsell 2.5pb7/2 for both outer and inner surfaces of Signal Lights.
2: The Standalone Pole is zinc-plated by hot dipping.

NO.	PART	MATERIAL	QTY	REMARKS
4	ANCHOR BOLTS	SS41	4	WITH SPRINGS FLAT WASHERS AND NUTS
3	STANDALONE POLE	STK41	1	φ76.3 T2.8
2	FLANGE	FC20	1	
1	LIGHTS		1 SET	



PEDESTAL SIGNAL, TWIN TYPE

SIDE VIEW SCALE=1/80



	PROJECT TITLE: THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ROAD NAME TITLE : ABDULLAH DAENG SIRUA ROAD	DRAWING NO. MS-09
	SCALE = 1 / 40 1/80	DRAWING TITLE : TRAFFIC SIGNAL (2/2)	DATE: MARCH 2008


HERTASNING ROAD

1. GENERAL

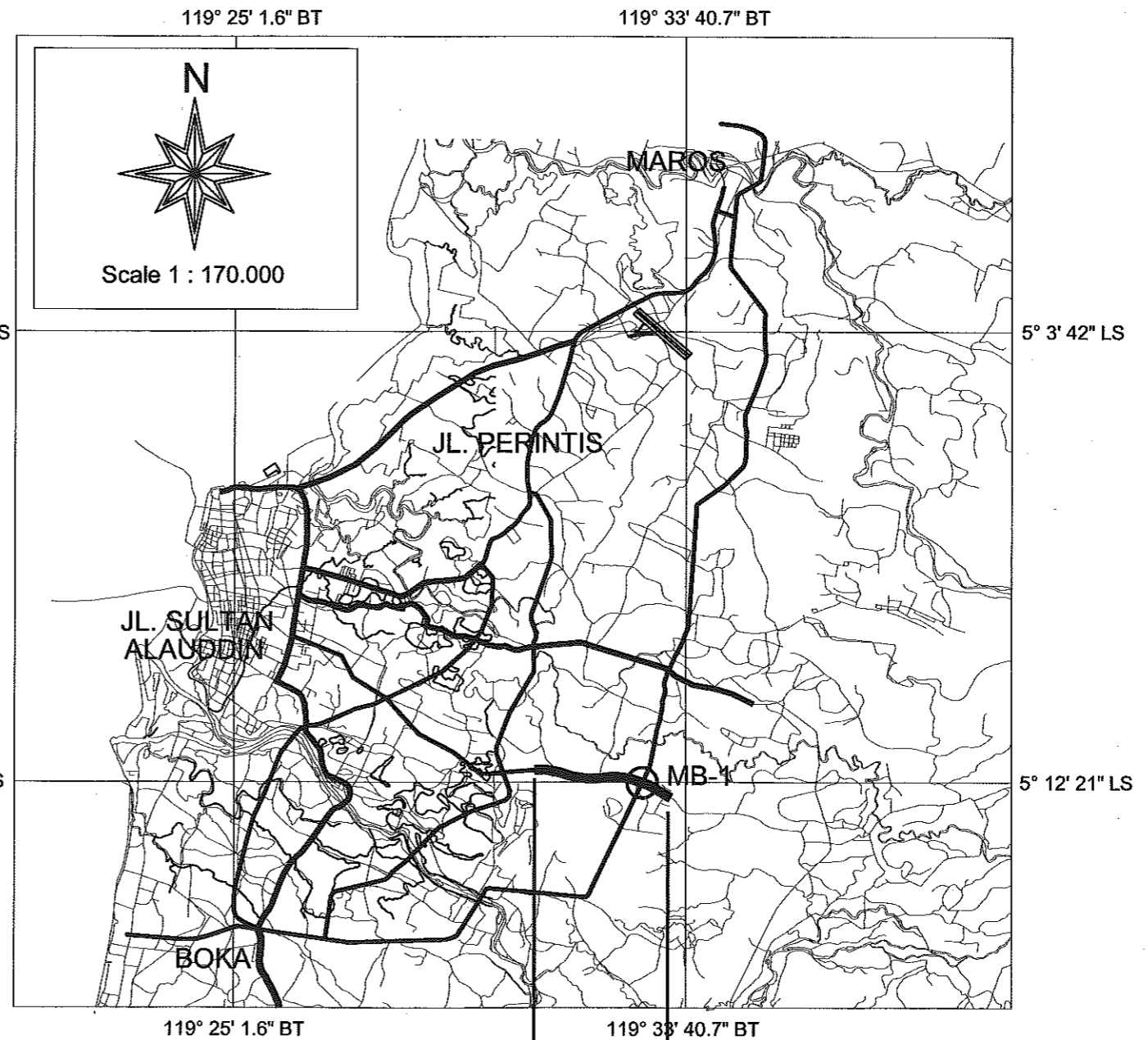
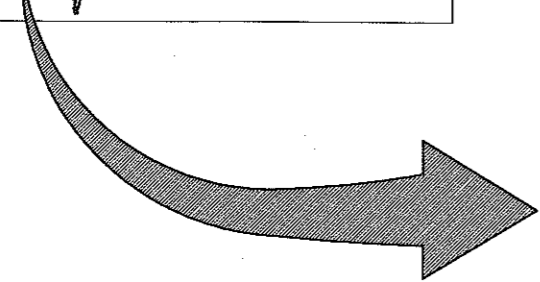
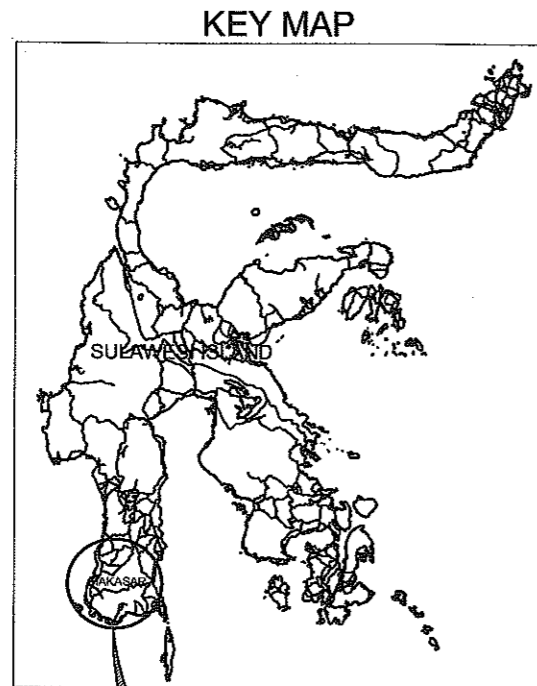
DRAWINGS INDEX-4

(HERTASNING ROAD)

NO	DRAWING TITLE	DRAWING NO	REMARKS
1	GENERAL		
1.1	DRAWING INDEX	GE - 01	
1.2	LOCATION MAP	GE - 02	
2	TYPICAL CROSS SECTIONS		
2.1	TYPICAL CROSS SECTIONS	TC - 01	
3	ROADWAY - PLAN AND PROFILE		
3.1	PLAN AND PROFILE (1/3)	PP - 01	
3.2	PLAN AND PROFILE (2/3)	PP - 02	
3.3	PLAN AND PROFILE (3/3)	PP - 03	
4	ROADWAY - INTERSECTIONS		
4.1	MB - 1 HERTASNING ROAD - MAMMINASATA BYPASS	IN - 01	
5	DRAINAGE AND STRUCTURES		
5.1	DETAILS OF DRAINAGE	DR - 01	
5.2	DETAILS OF CATCH PIT	DR - 02	
5.3	GENERAL LAYOUT OF SINGLE PIPE CULVERT	DR - 03	
5.4	GENERAL LAYOUT OF DOUBLE PIPE CULVERT	DR - 04	
5.5	INLET/OUTLET OF PIPE CULVERTS	DR - 05	
5.6	BOX CULVERT	DR - 06	
6	MISCELLANEOUS		
6.1	TRAFFIC SIGNS	MS - 01	
6.2	DETAIL OF TRAFFIC SIGN	MS - 02	
6.3	STANDARD OF GUARDRAIL	MS - 03	
6.4	STANDARD OF KILOMETER POS AND GUIDE POST	MS - 04	
6.5	MEDIAN, SIDEWALK AND PLANTING ZONE	MS - 05	
6.6	STANDARD OF ELECTRICAL POLE	MS - 06	
6.7	DETAIL FOUNDATION FOR ELECTRICAL POLE	MS - 07	

 JAPAN INTERNATIONAL COOPERATION AGENCY	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	HERTASNING ROAD	GE-01
		DRAWING TITLE :	DATE:
		DRAWING INDEX	MARCH 2008
		SCALE	

LOCATION MAP



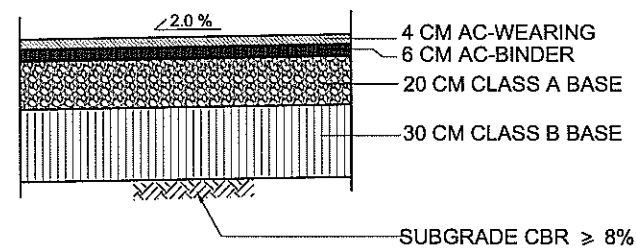
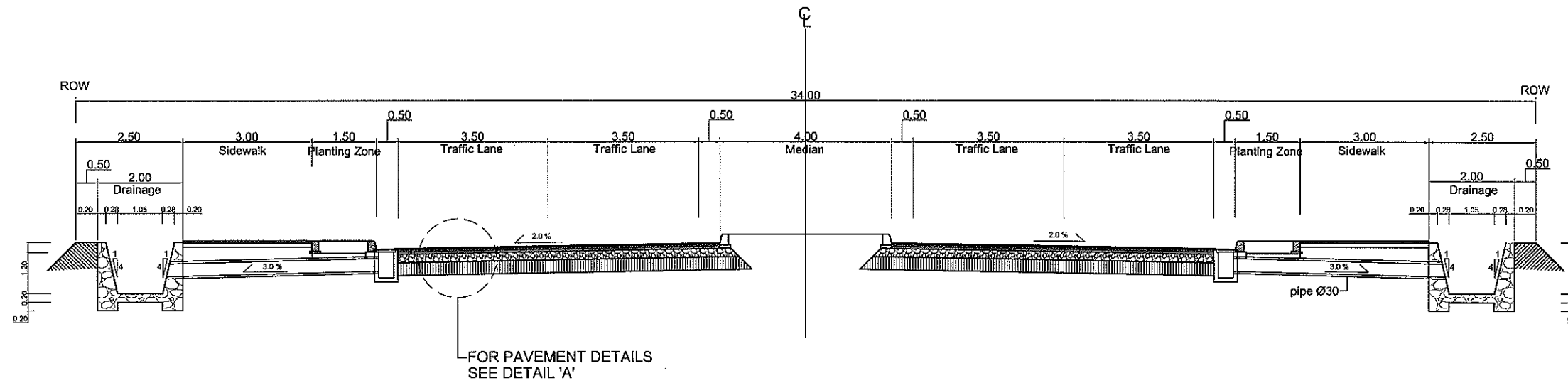
HERTASNING ROAD

TOTAL LENGTH = 4.86 KM

SECTION D

JICA JAPAN INTERNATIONAL COOPERATION AGENCY	PROJECT TITLE: THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ROAD NAME TITLE : HERTASNING ROAD	DRAWING NO. GE-02
	NIPPON KOEI CO., LTD. <small>JOINT VENTURE WITH</small> KRI INTERNATIONAL Corporation ALMEC ALMEC Corporation	DRAWING TITLE : LOCATION MAP	SCALE = 1 / 170,000

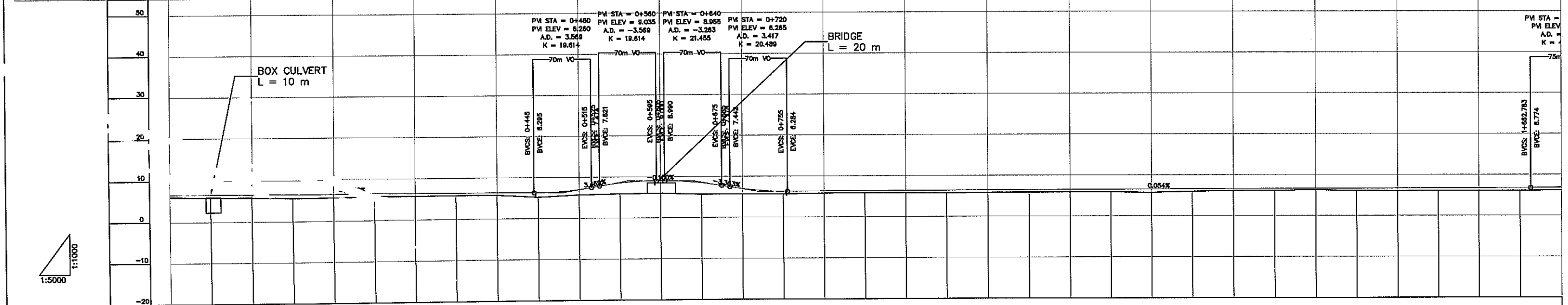
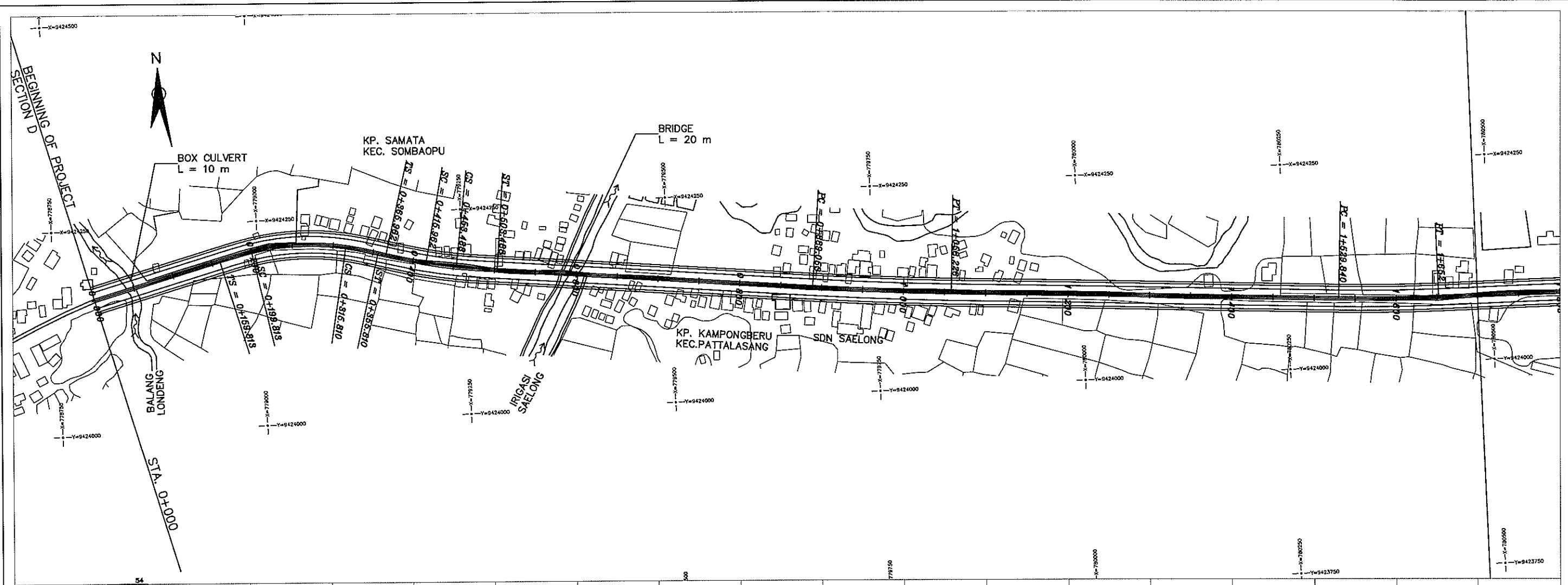
2. TYPICAL CROSS SECTIONS



DETAIL A

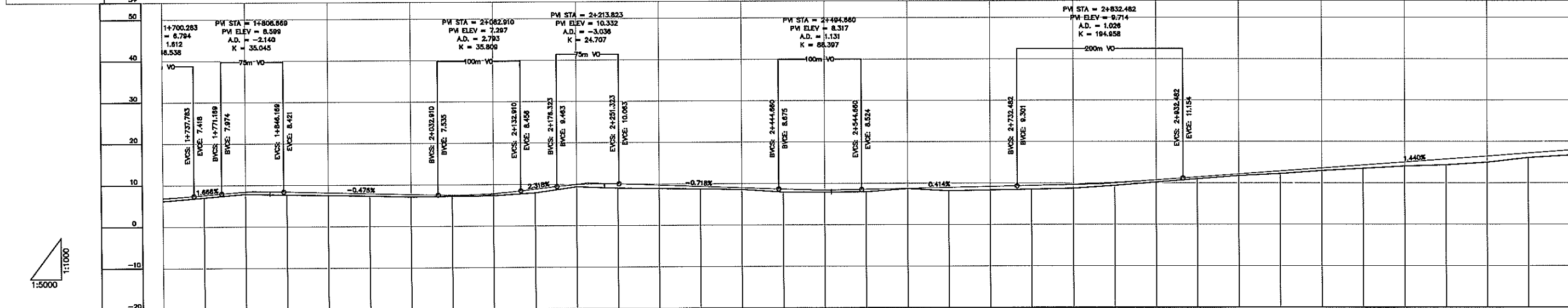
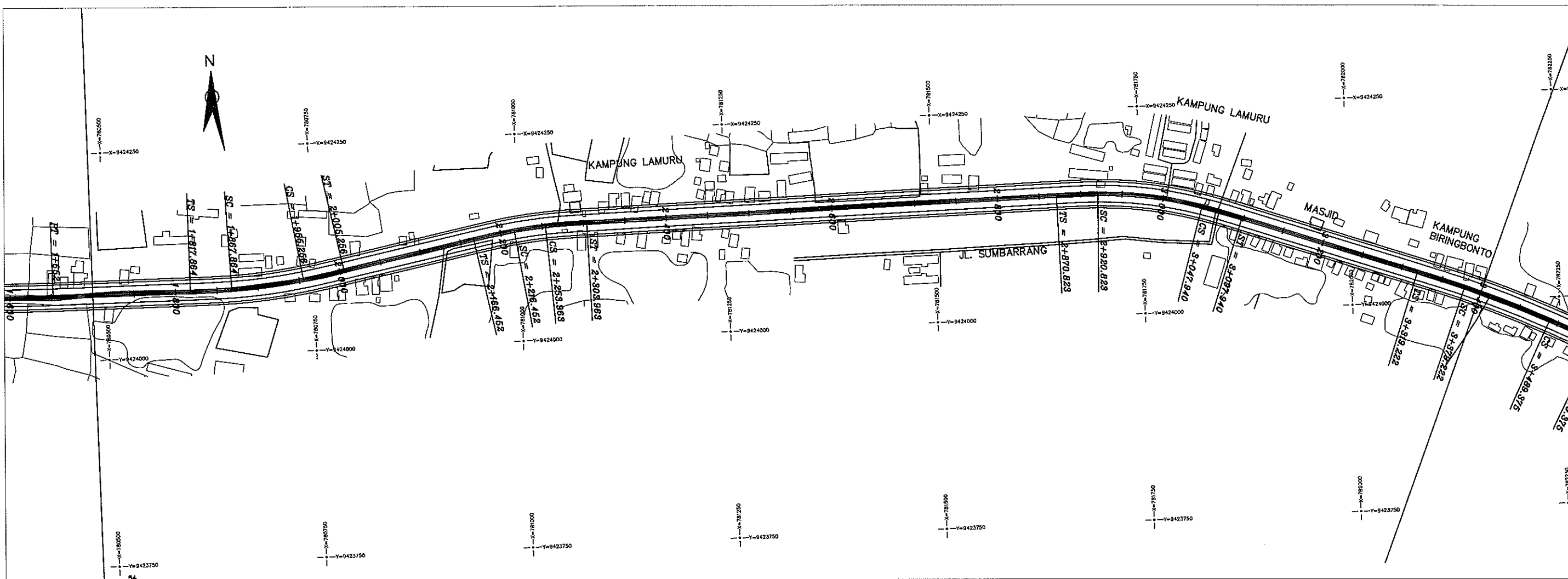
	PROJECT TITLE: THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ROAD NAME TITLE : HERTASNING ROAD	DRAWING NO. TC-01
	SCALE =	DRAWING TITLE : TYPICAL CROSS SECTIONS	DATE: MARCH 2008

3. ROADWAY - PLAN AND PROFILE



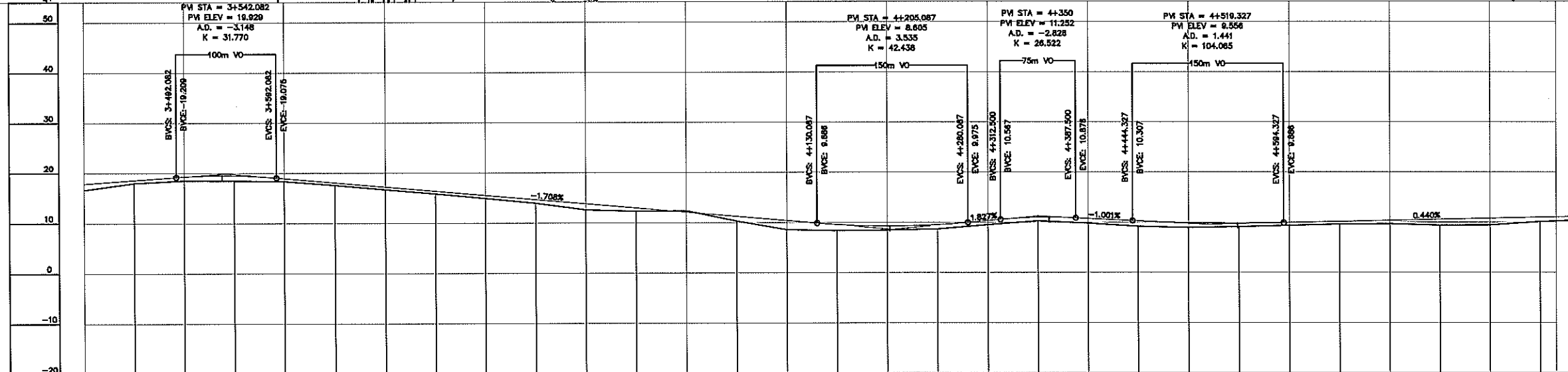
STATION	EXISTING GROUND HEIGHT	PROPOSED HEIGHT
0+000	6.138	6.738
0+050	5.909	6.689
0+100	5.895	6.640
0+150	5.688	6.590
0+200	5.652	6.540
0+250	5.699	6.490
0+300	5.695	6.440
0+350	5.809	6.390
0+400	5.740	6.340
0+450	5.203	6.21
0+500	5.772	7.011
0+550	5.883	6.529
0+600	5.895	6.995
0+650	5.666	6.473
0+700	5.660	6.992
0+750	5.672	6.287
0+800	5.810	6.308
0+850	5.868	6.335
0+900	5.828	6.362
0+950	5.760	6.389
1+000	5.846	6.416
1+050	5.838	6.443
1+100	5.826	6.470
1+150	5.836	6.497
1+200	5.727	6.524
1+250	5.962	6.551
1+300	6.093	6.578
1+350	6.161	6.605
1+400	6.254	6.632
1+450	6.088	6.659
1+500	6.001	6.686
1+550	6.108	6.713
1+600	6.081	6.740
1+650	6.100	6.767
1+700	6.194	6.842

	PROJECT TITLE: THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	ROAD NAME TITLE : HERTASING ROAD	DRAWING NO. PP-01 DATE: MARCH 2008
	DRAWING TITLE : PLAN AND PROFILE (1/3)	SCALE = 1 / 5,000 H, 1/1,000 V	
	BEGINNING OF PROJECT SECTION D		



PROPOSED HEIGHT	8.942	7.622	8.336	8.403	8.165	7.928	7.691	7.484	7.845	8.652	8.898	10.072	9.714	9.355	8.986	8.639	8.452	8.546	8.752	8.959	9.166	9.381	9.697	10.141	10.713	11.406	12.126	12.845	13.565	14.285	15.005	15.725	16.444	17.164	17.884
EXISTING GROUND HEIGHT	8.194	7.012	7.855	7.645	7.536	7.372	7.091	7.221	7.333	7.958	8.411	9.019	8.871	8.755	8.590	7.906	7.893	7.946	8.694	8.183	8.334	8.483	8.694	9.398	10.192	10.983	11.761	12.243	12.965	13.503	14.060	14.355	14.996	16.089	16.875
STATION	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400
HORIZONTAL ALIGNMENT	R=00		R=700				R=00		R=500				R=00				R=500				R=00				R=1200										

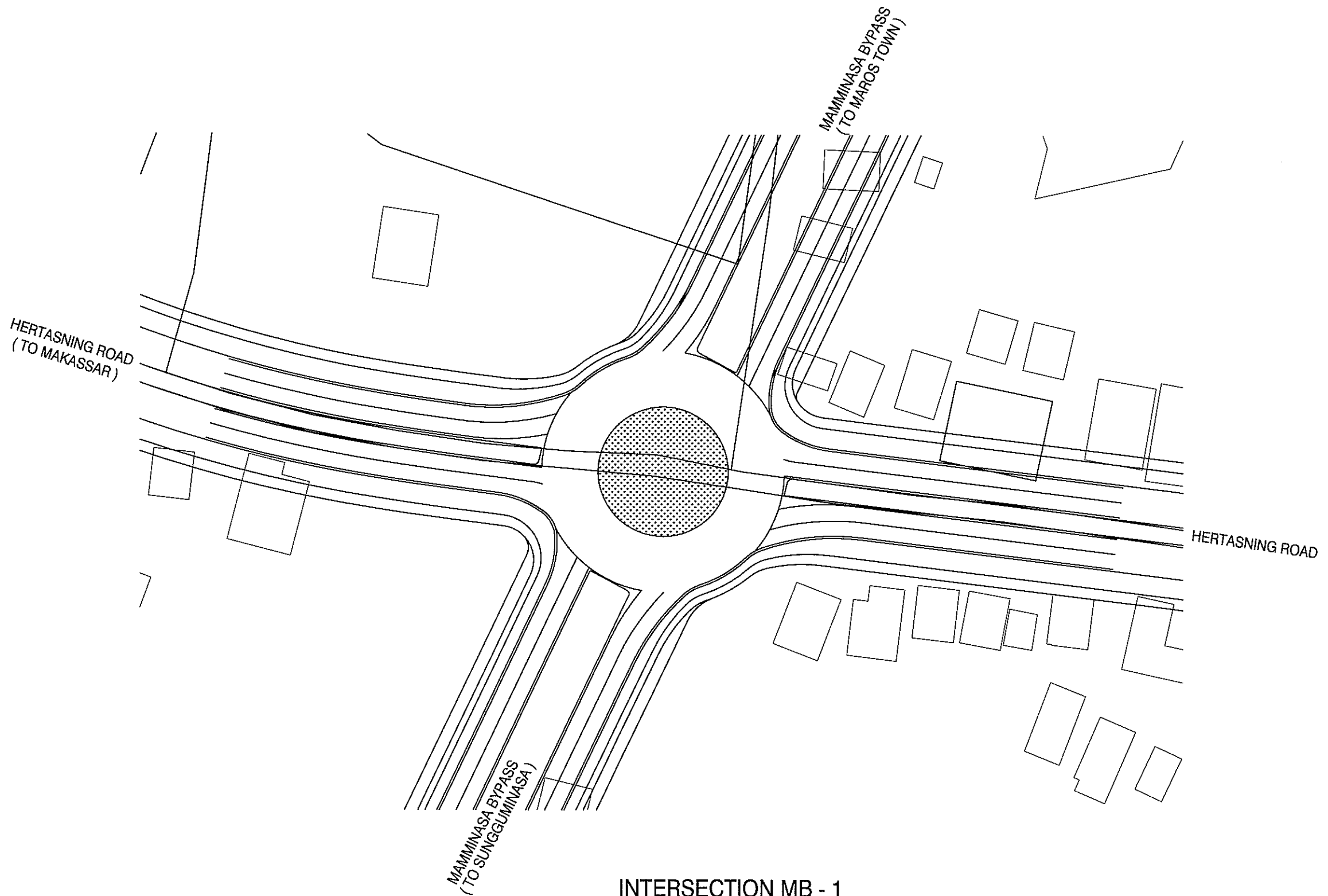
	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	HERTASNING ROAD	PP-02
		PLAN AND PROFILE (2/3)	DATE: MARCH 2008
		SCALE = 1 / 5,000 H, 1/1,000 V	



PROPOSED HEIGHT	17.884	18.604	19.314	19.515	18.940	18.086	17.232	16.378	15.524	14.670	13.816	12.962	12.108	11.254	10.400	9.592	8.786	7.978	7.171	6.363	5.555	4.747	3.939	3.131	2.323	1.515	0.707	-0.101	-0.893	-1.685	-2.477	-3.269	-4.061	-4.853	-5.645	-6.437	-7.229	-8.021	-8.813	-9.605	-10.397	-11.189	-11.981	-12.773	-13.565	-14.357	-15.149	-15.941	-16.733	-17.525	-18.317	-19.109	-19.901	-20.693	-21.485	-22.277	-23.069	-23.861	-24.653	-25.445	-26.237	-27.029	-27.821	-28.613	-29.405	-30.197	-30.989	-31.781	-32.573	-33.365	-34.157	-34.949	-35.741	-36.533	-37.325	-38.117	-38.909	-39.701	-40.493	-41.285	-42.077	-42.869	-43.661	-44.453	-45.245	-46.037	-46.829	-47.621	-48.413	-49.205	-50.000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
EXISTING GROUND HEIGHT	16.675	18.024	18.534	18.486	18.371	17.597	16.724	15.848	14.924	13.968	12.988	11.982	10.950	9.892	8.806	7.692	6.550	5.380	4.182	3.006	1.852	0.720	-0.402	-1.514	-2.610	-3.680	-4.724	-5.742	-6.734	-7.700	-8.640	-9.554	-10.432	-11.274	-12.080	-12.850	-13.584	-14.282	-14.944	-15.570	-16.160	-16.714	-17.232	-17.714	-18.160	-18.570	-18.944	-19.282	-19.584	-19.850	-20.082	-20.280	-20.444	-20.574	-20.670	-20.732	-20.760	-20.754	-20.714	-20.640	-20.532	-20.390	-20.214	-20.004	-19.760	-19.482	-19.166	-18.812	-18.420	-17.990	-17.522	-17.016	-16.472	-15.890	-15.270	-14.612	-13.916	-13.182	-12.410	-11.600	-10.752	-9.866	-8.942	-7.980	-6.980	-5.942	-4.866	-3.752	-2.600	-1.410	-0.182	1.074	2.284	3.456	4.590	5.686	6.744	7.764	8.746	9.690	10.596	11.464	12.294	13.086	13.840	14.556	15.234	15.874	16.476	17.040	17.566	18.054	18.504	18.916	19.290	19.626	19.924	20.184	20.406	20.590	20.736	20.844	20.914	20.946	20.940	20.896	20.814	20.694	20.536	20.340	20.106	19.834	19.524	19.176	18.790	18.366	17.904	17.404	16.866	16.292	15.674	15.012	14.306	13.556	12.762	11.924	11.042	10.116	9.146	8.132	7.074	5.972	4.826	3.636	2.402	1.124	-0.198	-1.474	-2.704	-3.886	-5.020	-6.106	-7.144	-8.134	-9.076	-10.070	-11.016	-11.914	-12.764	-13.566	-14.320	-15.026	-15.684	-16.294	-16.856	-17.370	-17.836	-18.254	-18.624	-18.946	-19.220	-19.446	-19.624	-19.754	-19.836	-19.870	-19.856	-19.794	-19.686	-19.534	-19.338	-19.094	-18.804	-18.468	-18.086	-17.658	-17.184	-16.664	-16.106	-15.512	-14.882	-14.216	-13.514	-12.776	-12.002	-11.182	-10.316	-9.406	-8.452	-7.454	-6.412	-5.326	-4.196	-3.022	-1.804	-0.542	0.754	2.062	3.376	4.596	5.722	6.754	7.692	8.536	9.286	9.942	10.504	10.972	11.346	11.622	11.800	11.882	11.870	11.764	11.564	11.272	10.890	10.418	9.856	9.204	8.462	7.630	6.708	5.696	4.604	3.432	2.180	0.848	-0.564	-1.934	-3.254	-4.524	-5.744	-6.914	-8.034	-9.104	-10.124	-11.094	-12.014	-12.884	-13.704	-14.474	-15.194	-15.864	-16.484	-17.054	-17.574	-18.044	-18.464	-18.834	-19.154	-19.424	-19.644	-19.814	-19.934	-19.994	-19.994	-19.934	-19.814	-19.634	-19.394	-19.094	-18.734	-18.314	-17.834	-17.294	-16.694	-16.034	-15.314	-14.534	-13.694	-12.794	-11.834	-10.814	-9.734	-8.594	-7.394	-6.134	-4.814	-3.434	-1.994	-0.504	1.034	2.584	4.154	5.744	7.354	8.984	10.634	12.304	13.994	15.704	17.434	19.184	20.954	22.744	24.554	26.384	28.234	30.104	31.994	33.904	35.834	37.784	39.754	41.744	43.754	45.784	47.834	49.904	51.994	54.104	56.234	58.384	60.554	62.744	64.954	67.184	69.434	71.704	74.004	76.334	78.694	81.084	83.504	85.954	88.434	90.944	93.484	96.054	98.654	101.284	103.944	106.634	109.354	112.104	114.884	117.694	120.534	123.404	126.304	129.234	132.194	135.184	138.204	141.254	144.334	147.444	150.584	153.754	156.954	160.184	163.444	166.734	170.054	173.404	176.784	180.194	183.634	187.104	190.604	194.134	197.694	201.284	204.904	208.554	212.234	215.944	219.684	223.454	227.254	231.084	234.944	238.834	242.754	246.704	250.684	254.694	258.734	262.804	266.904	271.034	275.194	279.384	283.604	287.854	292.134	296.444	300.784	305.154	309.554	313.984	318.444	322.934	327.454	331.994	336.564	341.164	345.794	350.454	355.144	359.864	364.614	369.394	374.204	379.044	383.914	388.814	393.744	398.704	403.694	408.714	413.764	418.844	423.954	429.094	434.264	439.464	444.694	449.954	455.244	460.564	465.914	471.294	476.704	482.144	487.614	493.114	498.644	504.204	509.794	515.414	521.064	526.744	532.454	538.194	543.964	549.764	555.594	561.454	567.344	573.264	579.214	585.194	591.204	597.244	603.314	609.414	615.544	621.704	627.894	634.114	640.364	646.644	652.954	659.294	665.664	672.064	678.494	684.954	691.444	697.964	704.514	711.094	717.704	724.344	731.014	737.714	744.444	751.204	757.994	764.814	771.664	778.544	785.454	792.394	799.364	806.364	813.394	820.454	827.544	834.664	841.814	848.994	856.204	863.444	870.714	878.014	885.344	892.704	900.094	907.514	914.964	922.444	929.954	937.494	945.064	952.664	960.294	967.954	975.644	983.364	991.114	998.894	1006.704	1014.544	1022.414	1030.314	1038.244	1046.204	1054.194	1062.214	1070.264	1078.344	1086.454	1094.594	1102.764	1110.964	1119.194	1127.454	1135.744	1144.064	1152.414	1160.794	1169.204	1177.644	1186.114	1194.614	1203.144	1211.704	1220.294	1228.914	1237.564	1246.244	1254.954	1263.694	1272.464	1281.264	1290.094	1298.954	1307.844	1316.764	1325.714	1334.694	1343.704	1352.744	1361.814	1370.914	1380.044	1389.204	1398.394	1407.614	1416.864	1426.144	1435.454	1444.794	1454.164	1463.564	1472.994	1482.454	1491.944	1501.464	1511.014	1520.594	1530.204	1539.844	1549.514	1559.214	1568.944	1578.704	1588.494	1598.314	1608.164	1618.044	1627.954	1637.894	1647.864	1657.864	1667.894	1677.954	1688.044	1698.164	1708.314	1718.494	1728.704	1738.944	1749.214	1759.514	1769.844	1780.204	1790.594	1801.014	1811.464	1821.944	1832.454	1842.994	1853.564	1864.164	1874.794	1885.454	1896.144	1906.864	1917.614	1928.394	1939.204	1950.044	1960.914	1971.814	1982.744	1993.704	2004.694	2015.714	2026.764	2037.844	2048.954	2060.094	2071.264	2082.464	2093.694	2104.954	2116.244	2127.564	2138.914	2150.294	2161.704	2173.144	2184.614	2196.114	2207.644	2219.204	2230.794	2242.414	2254.064	2265.744	2277.454	2289.194	2300.964	2312.764	2324.594	2336.454	2348.344	2360.264	2372.214	2384.194	2396.204	2408.244	2420.314	2432.414	2444.544	2456.704	2468.894	2481.114	2493.364	2505.644	2517.954	2530.294	2542.664	2555.064	2567.494	2579.954	2592.444	2604.964	2617.514	2630.094	2642.704	2655.344	2668.014	2680.714	2693.444	2706.204	2718.994	2731.814	2744.664	2757.544	2770.454	2783.394	2796.364	2809.364	2822.394	2835.454	2848.544	2861.664	2874.814	2887.994	2901.204	2914.444	2927.714	2941.014	2954.344	2967.704	2981.094	2994.514	3007.964	3021.444	3034.954	3048.494	3062.064	3075.664	3089.294	3102.954	3116.644	3130.364	3144.114	3157.894	3171.704	3185.544	3199.414	3213.314	3227.244	3241.204	3255.194	3269.214	3283.264	3297.344	3311.454	3325.594	3339.764	3353.964	3368.194	3382.454	3396.744	3411.064	3425.414	3439.794	3454.204	3468.644	3483.114	3497.614	3512.144	3526.704	3541.294	3555.914	3570.564	3585.244	3599.954	3614.694	3629.464	3644.264	3659.094	3673.954	3688.844	3703.764	3718.714	3733.694	3748.704	3763.744	3778.814	3793.914	3809.044	3824.204	3839.394	3854.614	3869.864	3885.144	3900.454	3915.794	3931.164	3946.564	3961.994	3977.454	3992.944	4008.464	4023.914	4039.394	4054.904	4070.444	4085.914	4101.414	4116.944	4132.504	4148.094	4163.714	4179.364	4195.044	4210.754	4226.494	4242.264	4258.064	4273.894	4289.754	4305.644	4321.564	4337.514	4353.494	4369.504	4385.544	4401.614	4417.714	4433.844	4449.994	4466.174	4482.384	4498.624	4514.894	4531.194	4547.524	4563.884	4580.274	4596.694	4613.144	4629.624	4646.134	4662.674	4679.244	4695.844	4712.474	4729.134	4745.824	4762.544	4779.294	4796.074	4812.884	4829.724	4846.594	4863.494	4880.424	4897.384	4914.374	4931.394	4948.444	4965.524	4982.634	5000.000
STATION	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500	4+550	4+600	4+650	4+700	4+750	4+800	4+850	4+866																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
HORIZONTAL ALIGNMENT	R=1200 R=00 R=300 R=00 R=650 R=00 R=300 R=00 R=500 R=00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

	PROJECT TITLE:	ROAD NAME TITLE:	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	HERTASNING ROAD	PP-03
		PLAN AND PROFILE (3/3)	DATE: MARCH 2008
	SCALE =	1 / 5,000 H, 1/1,000 V	

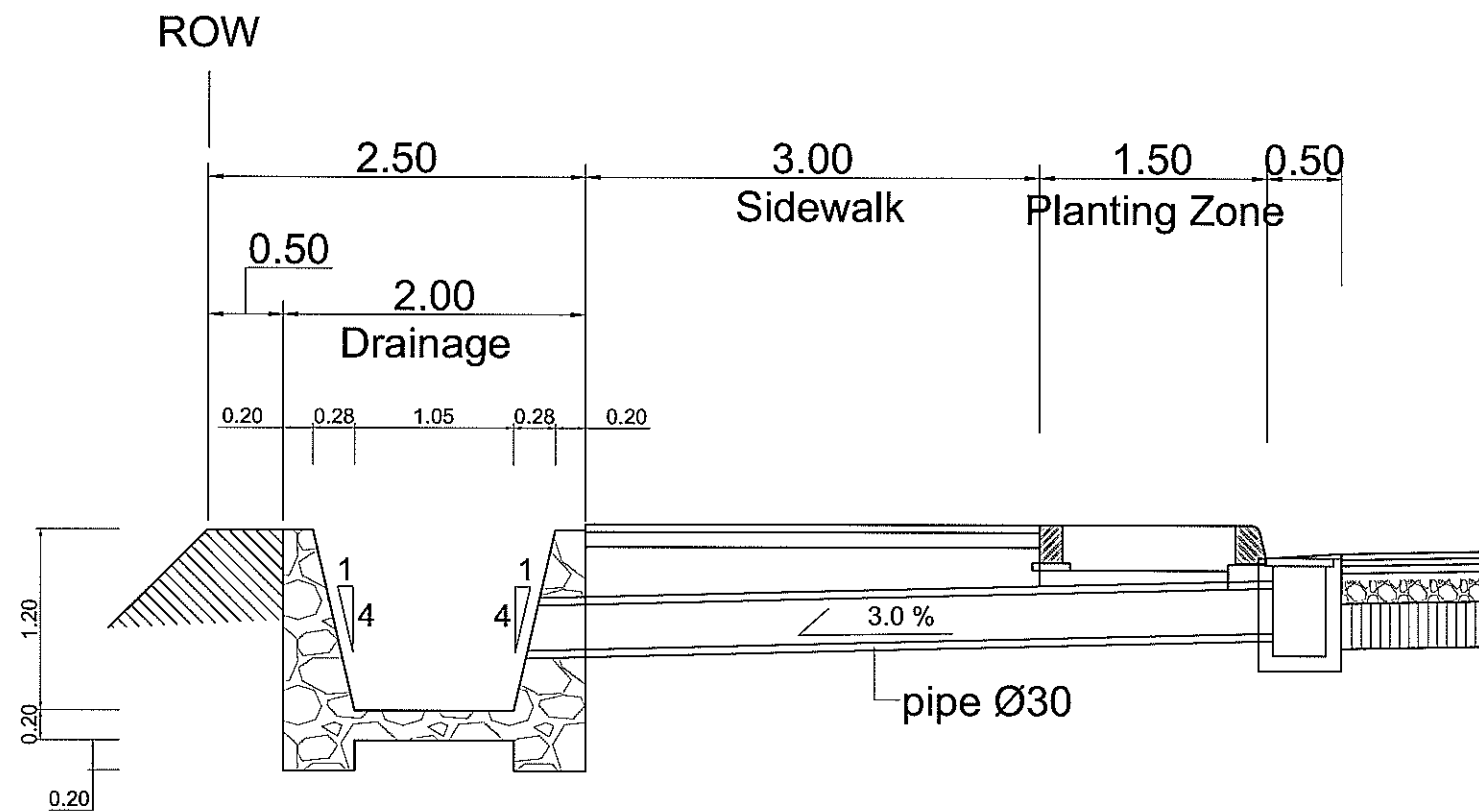
4. ROADWAY - INTERSECTIONS



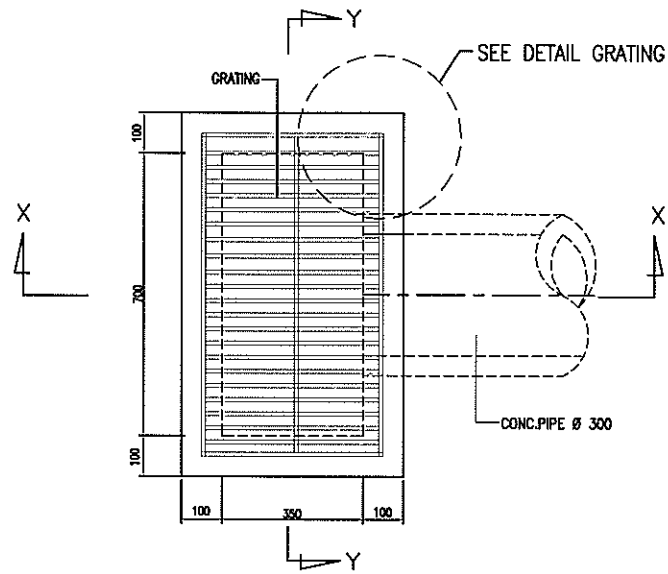
INTERSECTION MB - 1
HERTASNING ROAD / MAMMINASA BYPASS

	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	HERTASNING ROAD	IN-01
		DRAWING TITLE : MB - 1 HERTASNING ROAD / MAMMINASA BYPASS	DATE: MARCH 2008
		SCALE =	1 / 1000

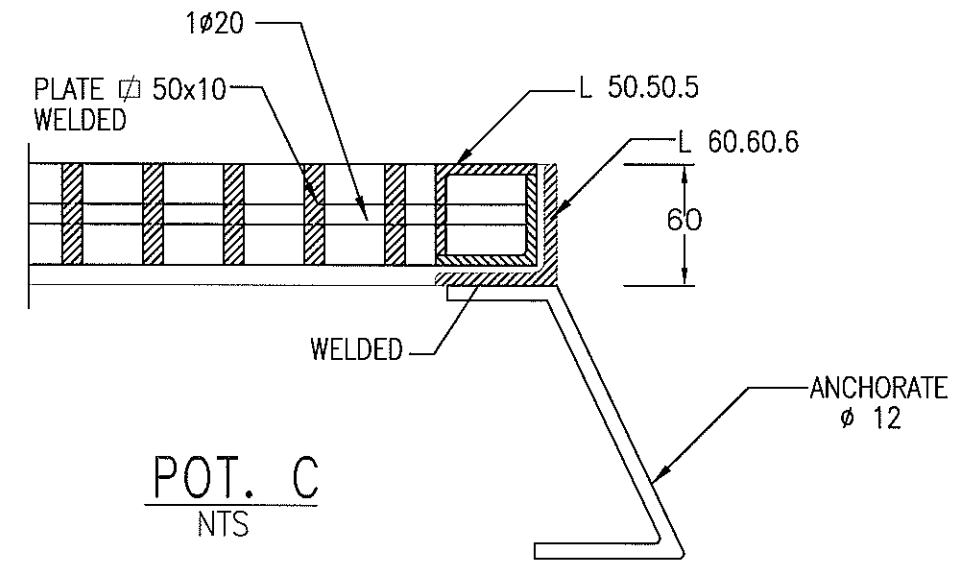
5. DRAINAGE AND STRUCTURES



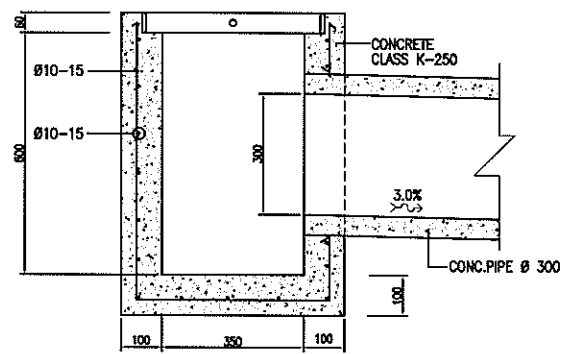
⊙ **DETAIL DRAINAGE**
scale 1/50



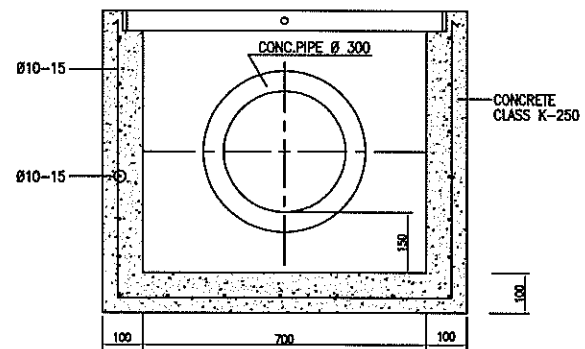
PLAN OF CATCH BASIN
SCALE : 1/20



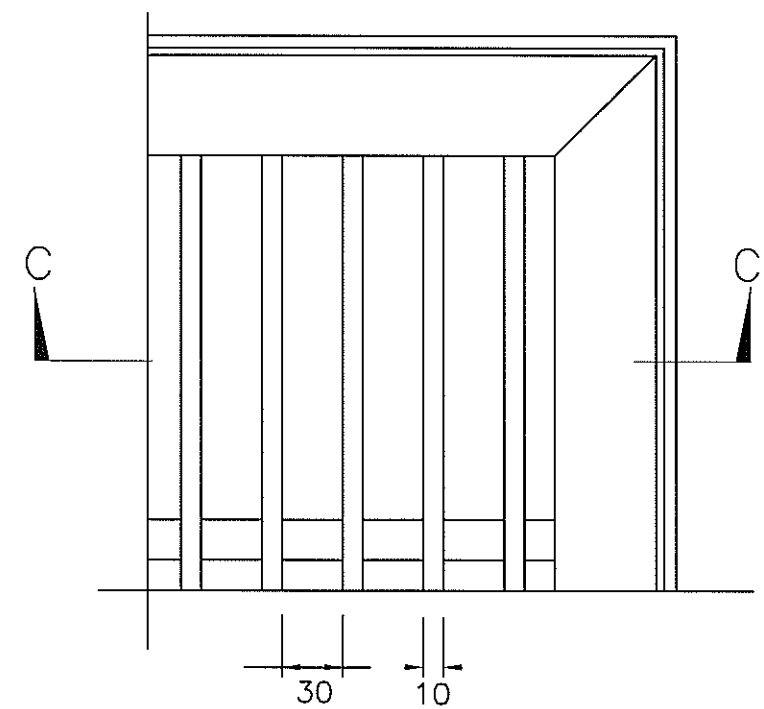
POT. C
NTS



SECTION X-X
SCALE : 1/20



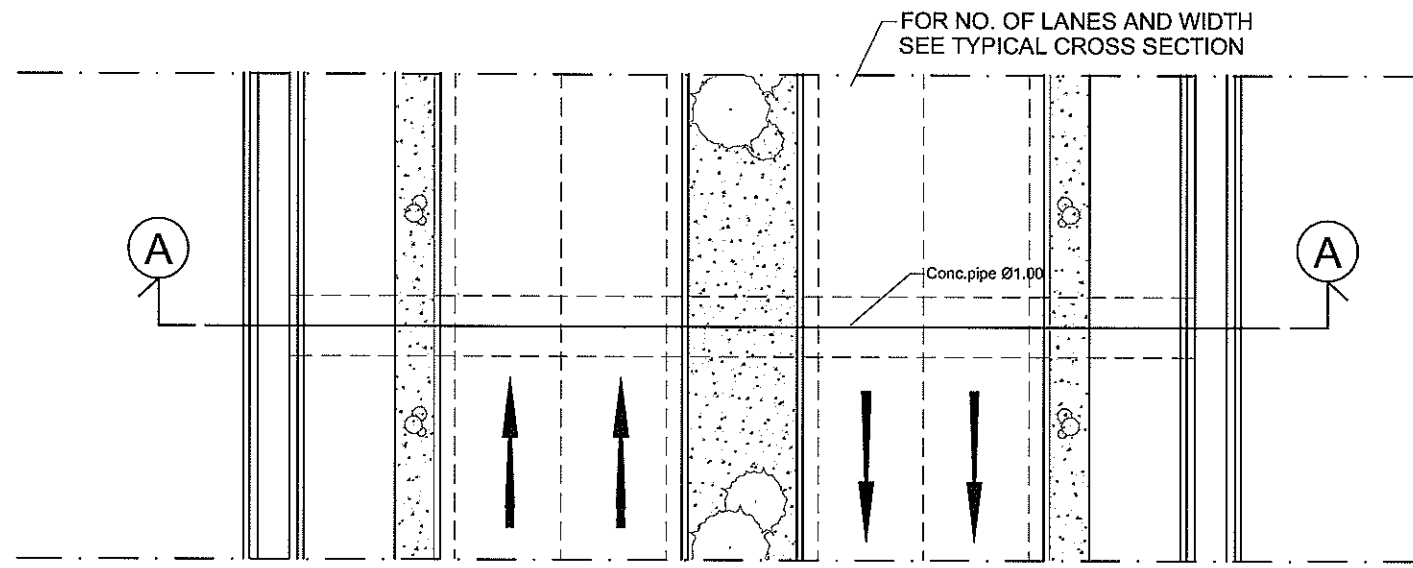
SECTION Y-Y
SCALE : 1/20



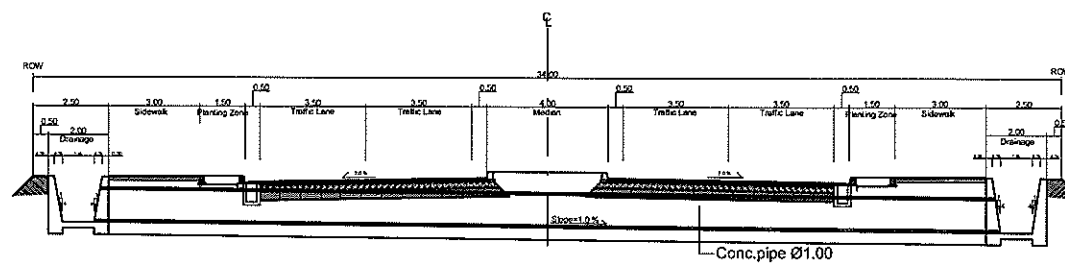
DETAIL OF GRATING
NTS

	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	HERTASNING ROAD	DR-02
		DRAWING TITLE :	DATE:
		DETAIL OF CATCH PIT	MARCH 2008
		SCALE =	1 / 20

TYPE	DIMENSION (mm)								QUANTITY (per 10 m)			
	D	t	b1	b2	h1	h2	h3	h4	Concrete (m3)	Form (m2)	Foudation (m3)	Pipe (No.)
RC-D300	300	30	600	800	610	280	100	150	1.171	5.600	8.000	5.0
RC-D600	600	50	900	1100	1000	500	150	150	2.576	10.000	11.000	4.1
RC-D1000	1000	82	1450	1650	1564	790	200	200	6.041	15.800	16.500	4.1
RC-D1500	1500	112	2100	2300	2174	1120	250	200	11.710	22.400	23.000	4.2

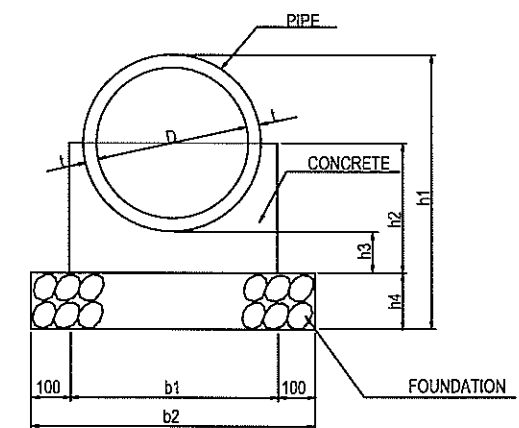


PLAN OF PIPE CULVERT
scale 1/250

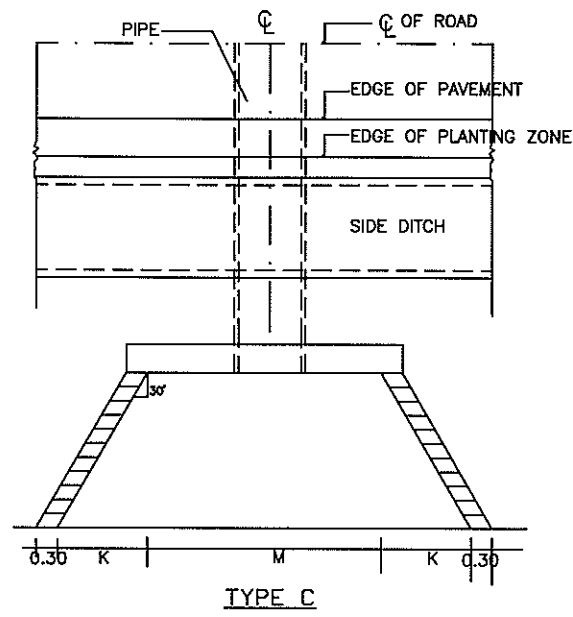


SECTION A-A
scale 1/250

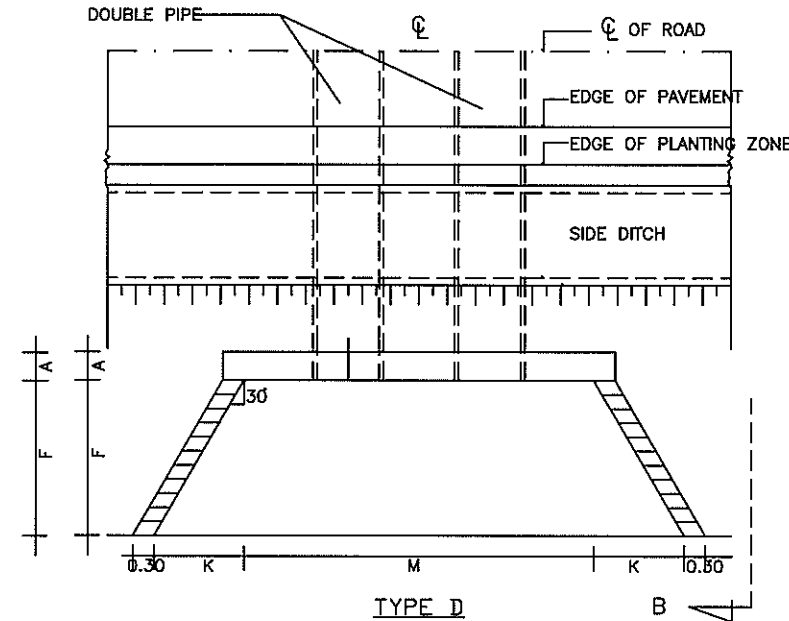
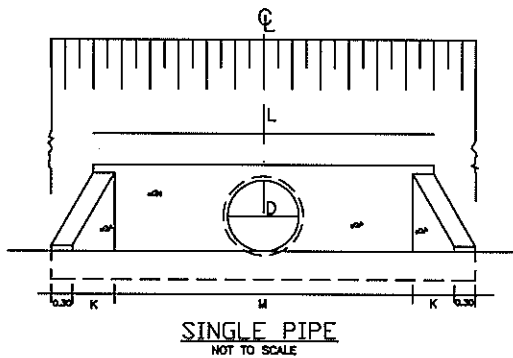
PIPE CULVERT



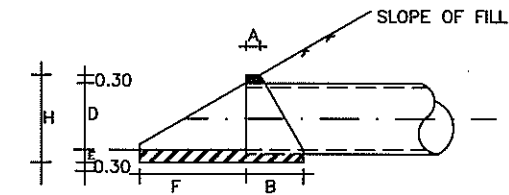
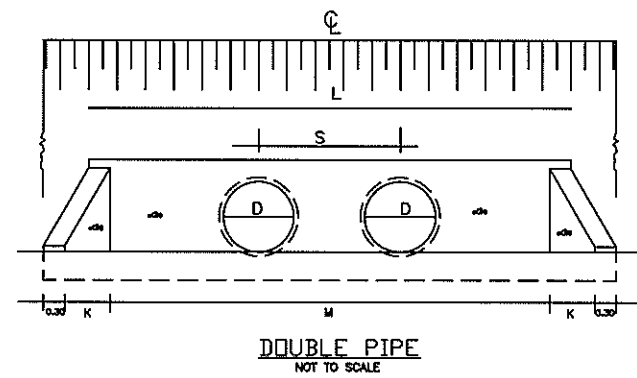
STANDARD INLET/OUTLET FOR PIPE CULVERTS



NOT TO SCALE



NOT TO SCALE



NOTES

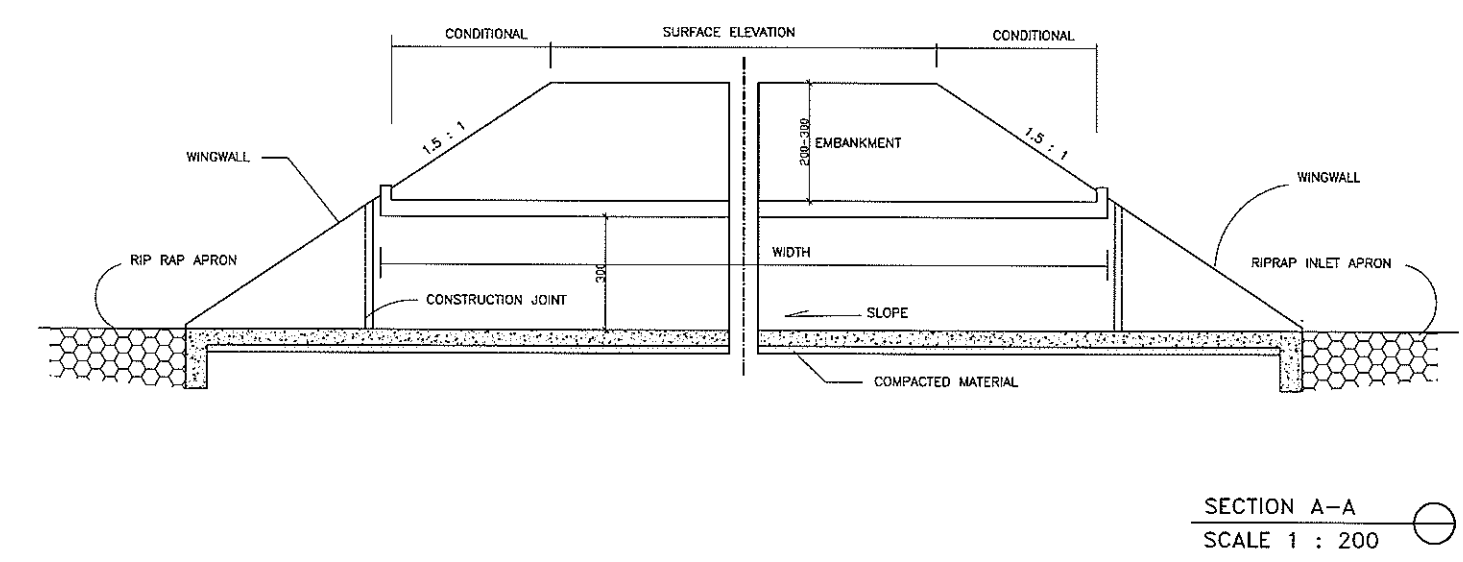
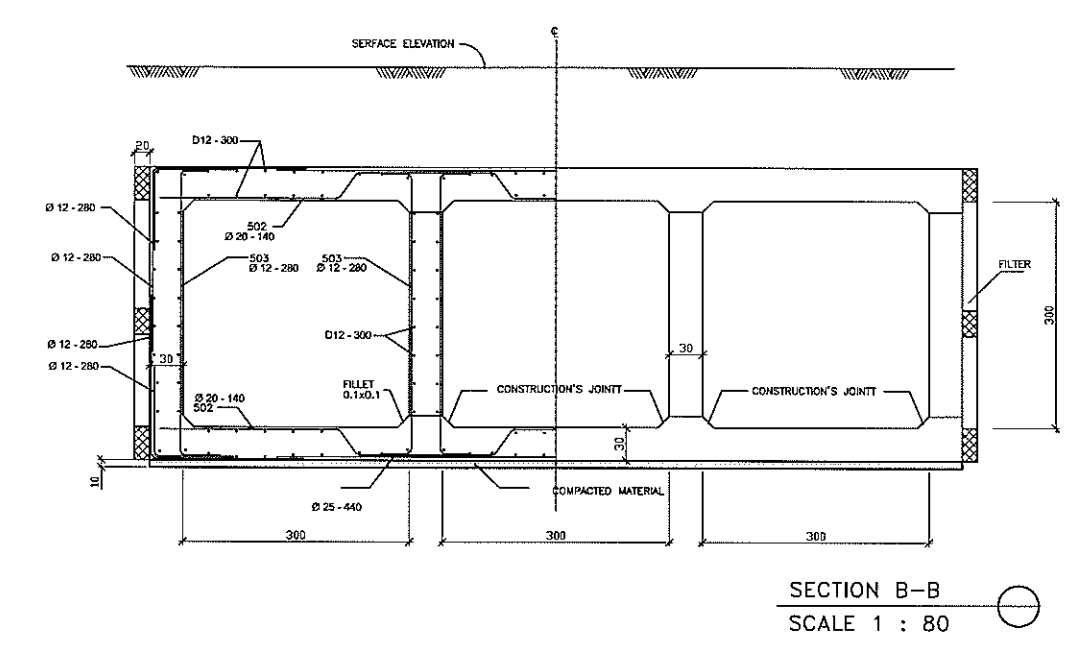
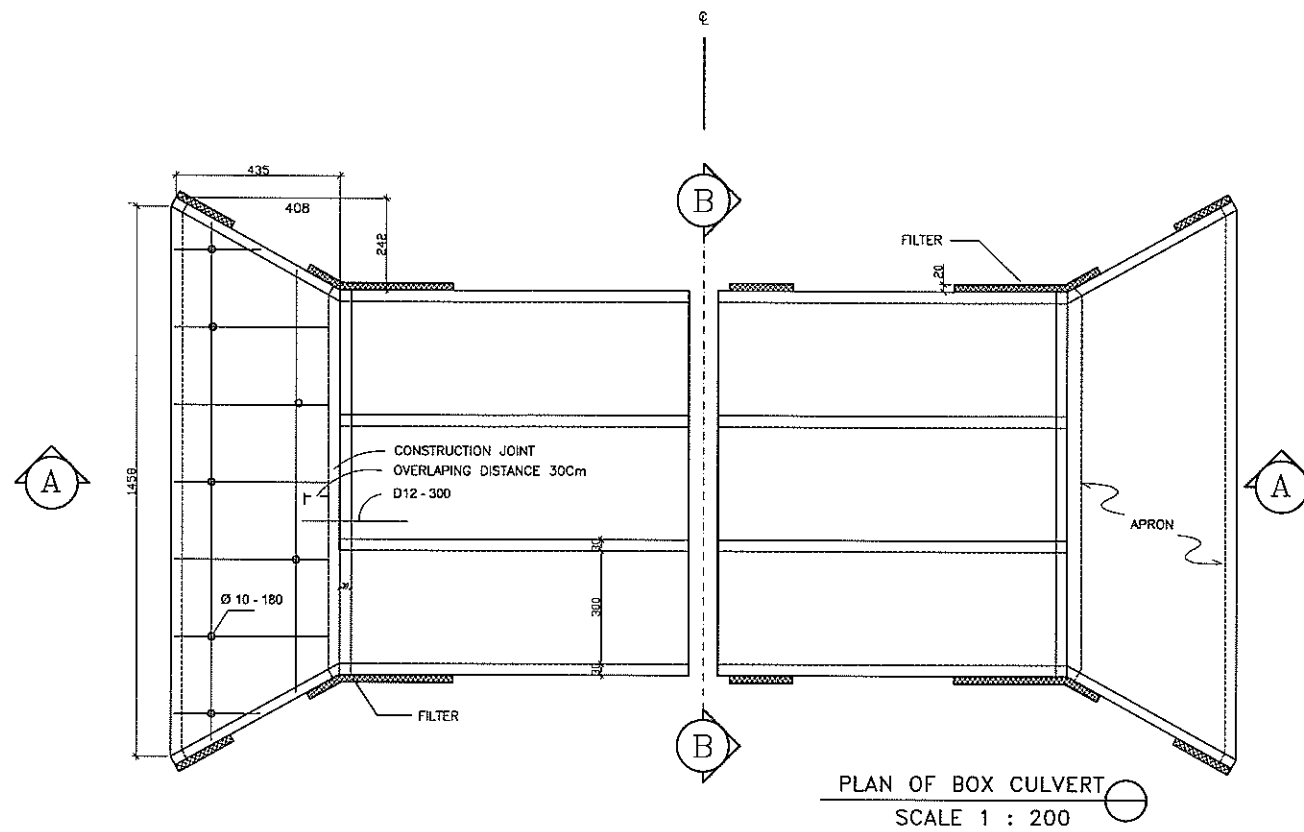
1. ALL DETAILS ON THIS SHEET NOT TO SCALE. ALL DIMENSIONS ARE GIVEN IN METERS
2. HEADWALLS SHALL BE CONSTRUCTED OF CLASS K-250 CONCRETE EXCEPT THAT THOSE HOUSING PIPES OF DIA AND LESS MAYBE CONSTRUCTED IN STONE MASONRY.

SINGLE PIPE

D I A	DIMENSION (m)																	
	A	B	E	F			G			H			K			L	M	T
				3/2	2/1	3/1	3/2	2/1	3/1	3/2	2/1	3/1	3/2	2/1	3/1			
0.40	0.23	0.41	0.20	0.43	0.60	1.15	0.29	0.30	0.38	0.99	1.00	1.08	0.25	0.35	0.66	2.30	1.70	0.050
0.50	0.26	0.46	0.25	0.53	0.80	1.45	0.35	0.40	0.46	1.10	1.15	1.23	0.31	0.46	0.84	2.80	2.20	0.055
0.60	0.30	0.53	0.25	0.63	1.00	1.75	0.42	0.50	0.59	1.17	1.25	1.34	0.36	0.58	1.01	3.30	2.70	0.065
0.70	0.33	0.58	0.25	0.83	1.25	2.13	0.55	0.63	0.72	1.30	1.38	1.47	0.47	0.73	1.23	3.90	3.30	0.070
0.80	0.35	0.62	0.25	1.00	1.50	2.50	0.67	0.75	0.84	1.42	1.50	1.59	0.58	0.87	1.45	4.50	3.90	0.075
0.90	0.38	0.67	0.25	1.15	1.70	2.80	0.77	0.85	0.94	1.52	1.50	1.69	0.67	0.96	1.62	4.90	4.50	0.080
1.00	0.42	0.74	0.30	1.30	1.90	3.10	0.87	0.95	1.04	1.67	1.75	1.84	0.75	1.10	1.80	5.40	4.80	0.085
1.20	0.50	0.86	0.30	1.64	2.40	3.90	1.10	1.20	1.30	1.90	2.00	2.10	0.95	1.40	2.30	6.60	5.00	0.100

DOUBLE PIPE

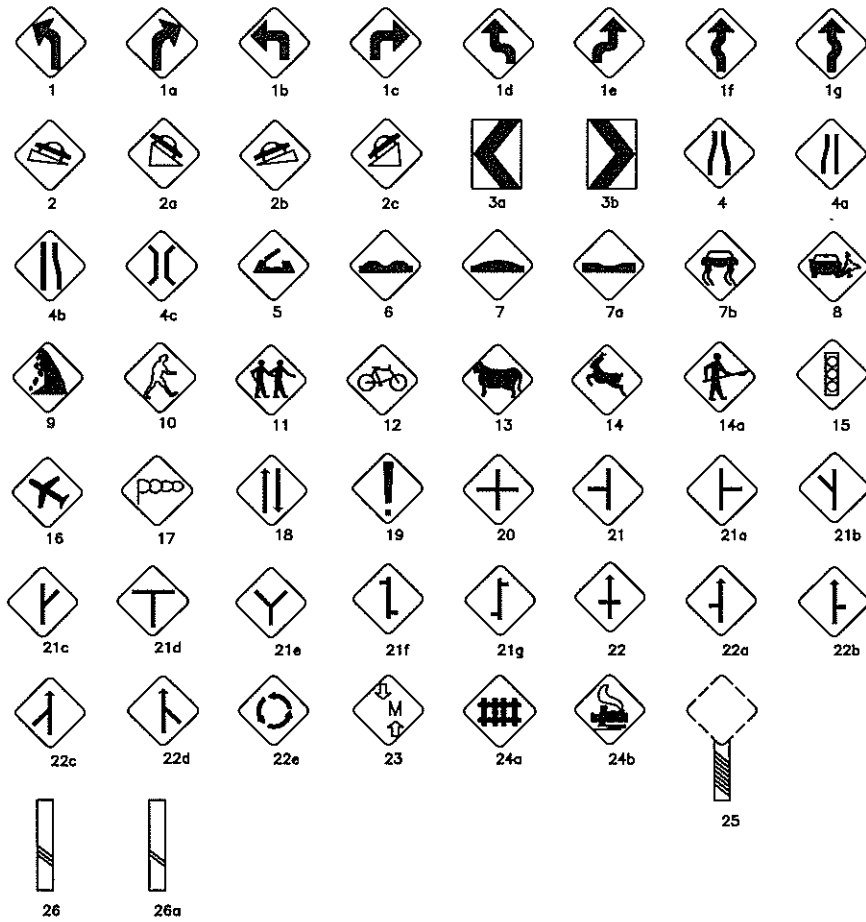
D I A	DIMENSION (m)																		
	A	B	E	F			G			H			K			L'	M	S	T
				3/2	2/1	3/1	3/2	2/1	3/1	3/2	2/1	3/1	3/2	2/1	3/1				
0.40	0.23	0.41	0.20	0.43	0.60	1.15	0.29	0.30	0.38	0.99	1.00	1.08	0.25	0.35	0.66	2.30	1.70	0.75	0.050
0.50	0.26	0.46	0.25	0.53	0.80	1.45	0.35	0.40	0.46	1.10	1.15	1.23	0.31	0.46	0.84	2.80	2.20	0.86	0.055
0.60	0.30	0.53	0.25	0.63	1.00	1.75	0.42	0.50	0.59	1.17	1.25	1.34	0.36	0.58	1.01	3.30	2.70	0.96	0.065
0.70	0.33	0.58	0.25	0.83	1.25	2.13	0.55	0.63	0.72	1.30	1.38	1.47	0.47	0.73	1.23	3.90	3.30	1.14	0.070
0.80	0.35	0.62	0.25	1.00	1.50	2.50	0.67	0.75	0.84	1.42	1.50	1.59	0.58	0.87	1.45	4.50	3.90	1.30	0.075
0.90	0.38	0.67	0.25	1.15	1.70	2.80	0.77	0.85	0.94	1.52	1.50	1.69	0.67	0.96	1.62	4.90	4.30	1.40	0.080
1.0	0.42	0.74	0.30	1.30	1.90	3.10	0.87	0.95	1.04	1.67	1.75	1.84	0.75	1.10	1.80	5.40	4.80	1.50	0.085
1.20	0.50	0.86	0.30	1.64	2.40	3.90	1.10	1.20	1.30	1.90	2.00	2.10	0.95	1.40	2.30	6.60	5.00	1.80	0.100



	PROJECT TITLE:	ROAD NAME TITLE :	DRAWING NO.
	THE STUDY ON ARTERIAL ROAD NETWORK DEVELOPMENT PLAN FOR SULAWESI ISLAND AND FEASIBILITY STUDY ON PRIORITY ARTERIAL ROAD IN SOUTH SULAWESI PROVINCE IN INDONESIA	HERTASING ROAD	DR - 06
		BOX CULVERT	DATE: MARCH 2008
		SCALE =	1 / 80 1 / 200

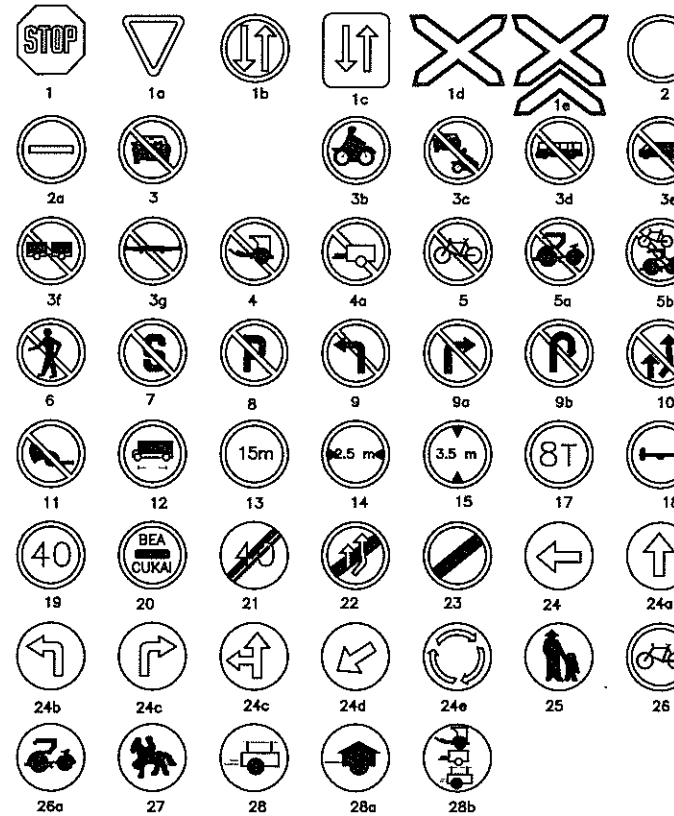
6. MISCELLANEOUS

WARNING SIGN (W)



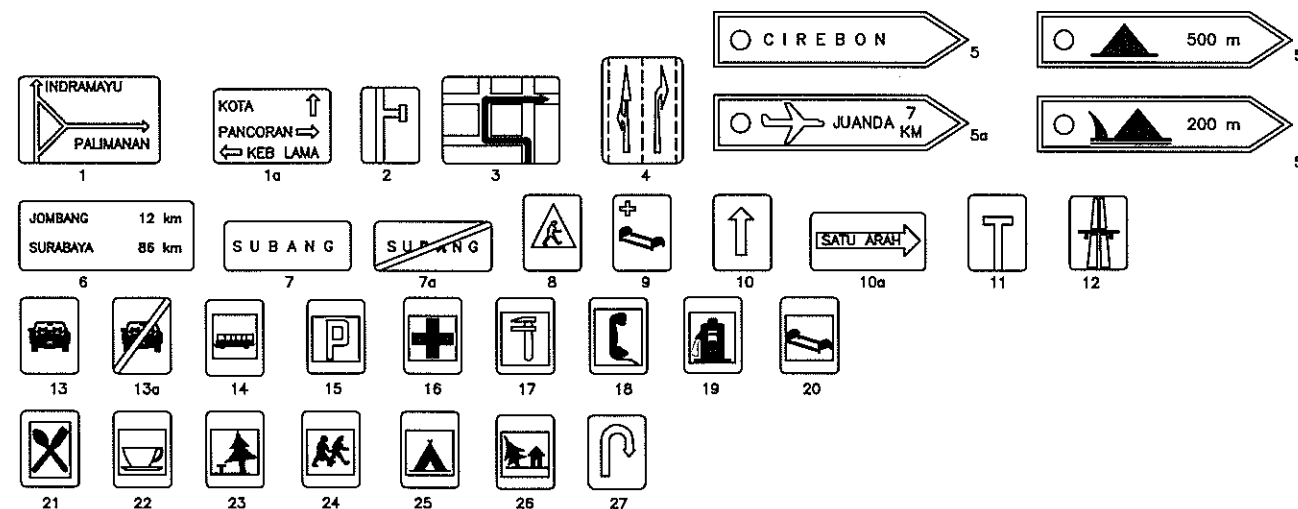
- 1 Left Bend
- 1a Right Bend
- 1b Left Turn
- 1c Right Turn
- 1d Double Bend
- 1e Double Bend
- 1f Many Bends
- 1g Many Bends
- 2 Descent
- 2a Steep Descent
- 2c Ascent
- 2c Steep Ascent
- 3a Left Turn Guidance
- 3b Right Turn Guidance
- 4 Narrower Carriageway
- 4a Left Narrower
- 4b Right Narrower
- 4c Bridge
- 5 Swing Bridge
- 6 Uneven Road
- 7 Uneven Road
- 7a Uneven Road
- 7b Slippery
- 8 Loose Gravel
- 9 Falling Rocks
- 10 Pedestrian Crossing
- 11 Children
- 12 Cyclists Crossing
- 13 Cattle Crossing
- 14 Animal Crossing
- 14a Road Works
- 15 Light Signals
- 16 Air Field
- 17 Cross Wind
- 18 Two - Way Traffic
- 19 Others Dangers
- 20 Intersection
- 21 Intersection
- 21a Intersection
- 21b Intersection
- 21c Intersection
- 21d Intersection
- 21e Intersection
- 21f Intersection
- 21g Intersection
- 22 Intersection
- 22a Priority Intersection
- 22a Priority Intersection
- 22b Priority Intersection
- 22c Priority Intersection
- 22d Priority Intersection
- 22e Roundabout
- 23 Railway Level Crossing
- 24a Railway Crossing With Gate
- 24 Railway Crossing Without Gate
- 25 Additional Signs of Approach to Level-Crossing
- 26 Additional Signs of Approach to Level-Crossing
- 26a Additional Signs of Approach to Level-Crossing

REGULATION SIGN (R)



- 1 Stop
- 1a Give Way
- 1b Priority Over Oncoming Traffic
- 1c Priority Over Oncoming Traffic
- 1d Immediate Vicinity of Level Crossing
- 1e Immediate Vicinity of Level Crossing
- 2 Closed to All Vehicles in Both Direction
- 2a No Entry
- 3 No Entry Passenger Car
- 3b No Entry for Motor Cycle
- 3c No Entry for Vehicle and Motor Cycle
- 3d No Entry for Bus
- 3e No Entry Commercial Vehicles
- 3f No Entry for Trailers
- 3g No Entry for Articulated Vehicles
- 4 No Entry for Dokar
- 4a No Entry for Wagon
- 5 No Entry for Cycle
- 5a No Entry for Becak and Cycle
- 5b No Entry for Becak and Cycle
- 6 No Entry For Pedestrian
- 7 Stopping Prohibited
- 8 Parking Prohibited
- 9 No Turn Left
- 9a No Turn Right
- 9b No U - Turn
- 10 No Overtaking
- 11 Prohibition of the Use Audible Warning Devices
- 12 No Entry for Vehicles or Combinations Vehicles ExceedingMetres in Length
- 13 Driving or Vehicles Less ThanMetres Apart Prohibited
- 14 No Entry for Vehicle Having an Overall With ExceedingMetres
- 15 No Entry for Vehicle Having an Overall Height ExceedingMetres
- 17 No Entry for Vehicles ExceedingThan Laden Weight
- 18 No Entry Vehicles Having A Weight Exceeding.....Ton on one Axle
- 19 Speed Limit
- 20 Prohibition of Passing Without Stopping
- 21 End of Speed Limit
- 22 End of No Overtaking
- 23 End Of Prohibition
- 24 Direction to be Followed
- 24a Direction to be Followed
- 24b Direction to be Followed
- 24c Direction to be Followed
- 24d Passenger This Side
- 24e Direction to be Followed Around Roundabout
- 25 Compulsary Foot - Path
- 26 Compulsary Cycle
- 26a Compulsary Becak
- 27 Compulsary Horseback
- 28 Compulsary Dokar
- 28a Compulsary Wagon
- 28b Compulsary Wagon

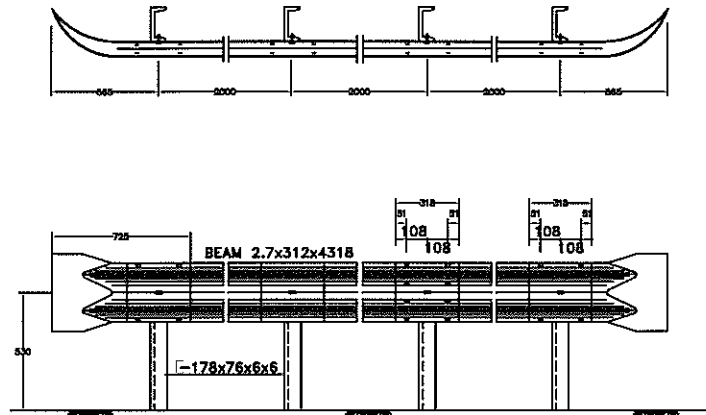
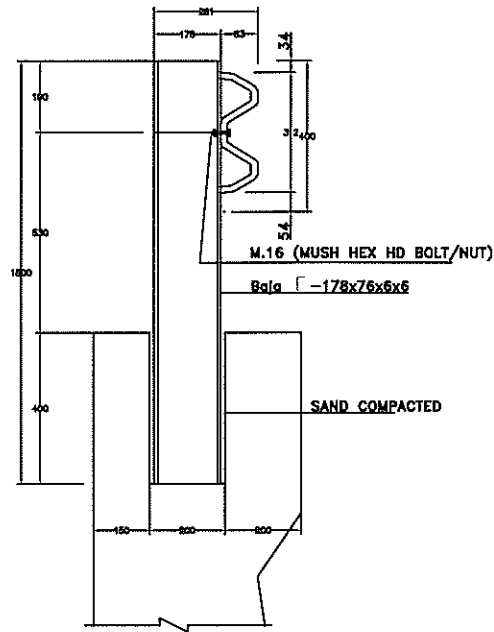
GUIDE SIGN (G)



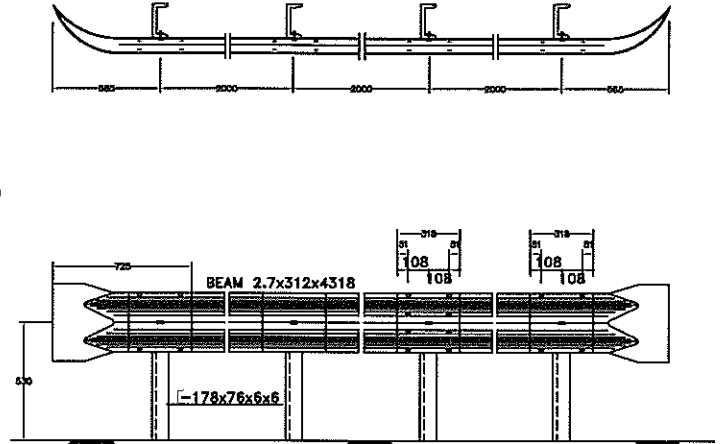
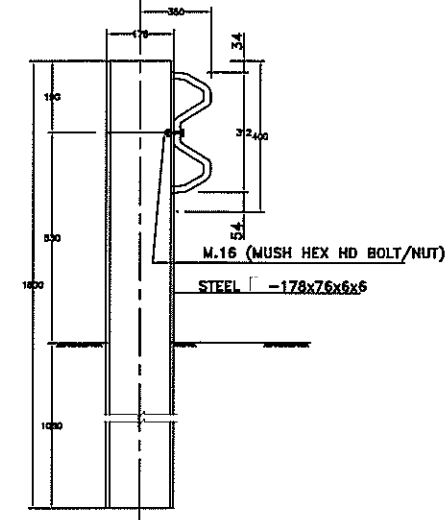
- 1 Example of Advances Direction Signs
- 1a Example of Advances Direction Signs
- 2 No Through Road
- 3 Example of Advances Direction Signs for Route to be Followed
- 4 Example of Signs for Proselektion at Interaction on Roads With Several Lanes
- 5 Example of Signs for Direction Place
- 5a Example of Signs for Airfield Direction
- 5b Example of Signs for Camping Site
- 5c Example of Signs for Youth Hostel
- 6 Confirmatory Sign
- 7 Place Identification Sign
- 7a End of Place Identification Sign
- 8 Pedestrian Crossing
- 9 Hospital Sign
- 10 One - Way Road
- 10a One - Way Road
- 11 No Through Road
- 12 Entry To Railroad
- 13 Road of Motor Vehicles
- 13a End of Road of Motor Vehicles
- 14 Bus Stop
- 15 Parking Area
- 16 First - Aid Station
- 17 Breakdown Service
- 18 Telephone
- 19 Fuel Station
- 20 Hotel or Motel
- 21 Restaurant
- 22 Cafeteria
- 23 Picnic Site
- 24 Starting - Point foe Walks
- 25 Camping Site
- 26 Youth Hotel
- 27 U - Turn

GUARDRAIL STANDARD TYPE A

GUARDRAIL STANDARD TYPE B



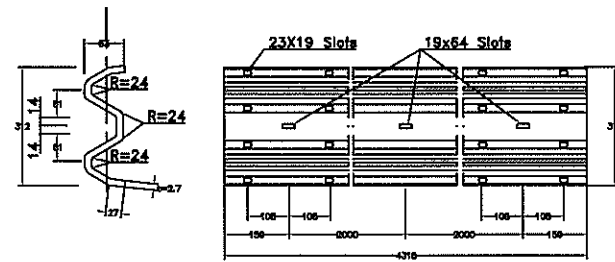
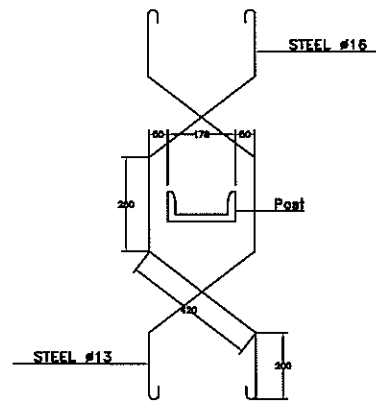
ELEV. AND PROFILE
SCALE : 1:20



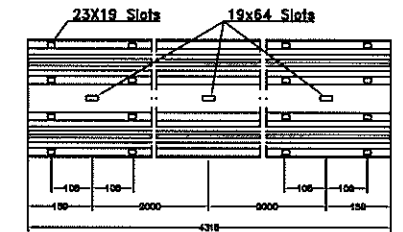
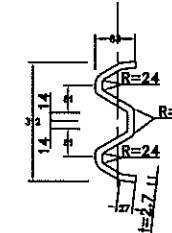
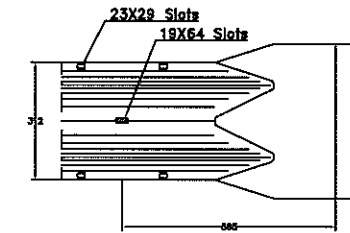
GUARDRAIL POST DETAIL
SCALE : 1:10

ELEV. AND PROFILE
SCALE : 1:20

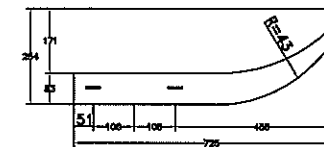
GUARDRAIL POST DETAIL
SCALE : 1:10



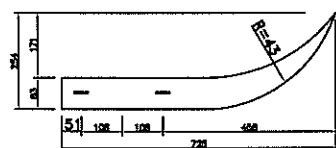
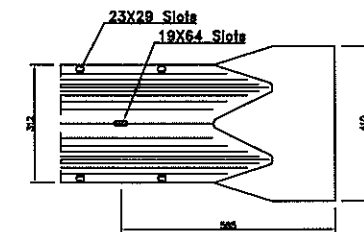
DETAIL BEAM
SCALE : 1:10



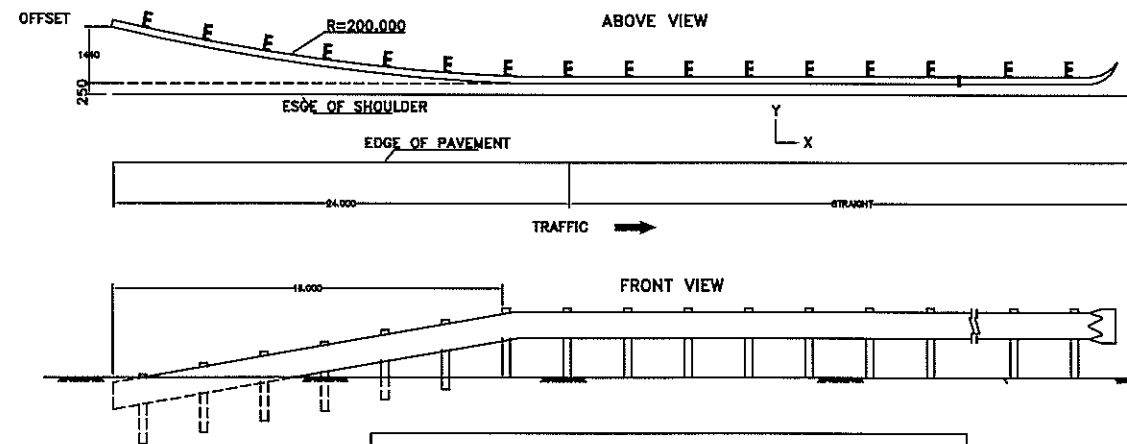
DETAIL BEAM
SKALA : 1:10



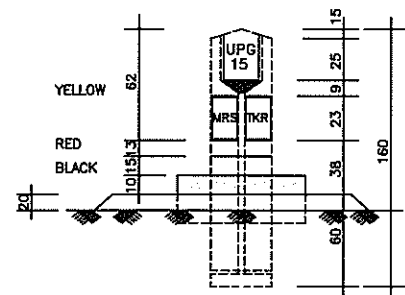
END BEAM DETAIL
SCALE : 1:10



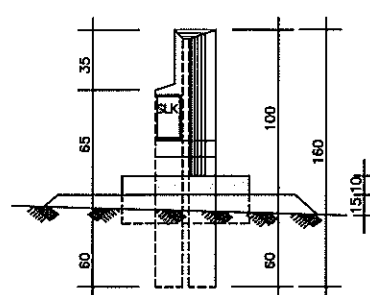
END BEAM DETAIL
SCALE : 1:10



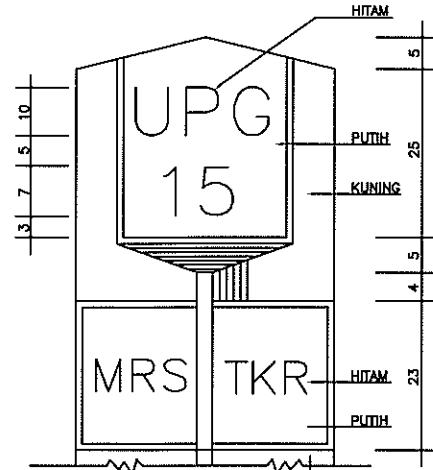
" OFFSET "						
X	4,000	8,000	12,000	16,000	20,000	24,000
Y	0.00	160	360	640	1,000	1,440



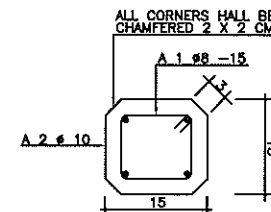
TAMPAK DEPAN



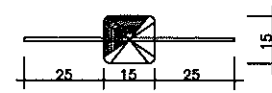
TAMPAK SAMPING



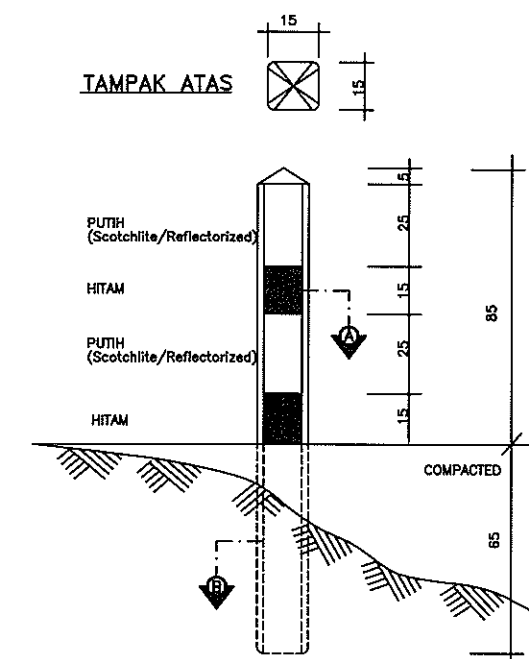
DETAIL 1
SKALA 1:5



POTONGAN A - A
SKALA 1:5

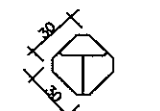


POTONGAN B - B
SKALA 1:5



TAMPAK ATAS

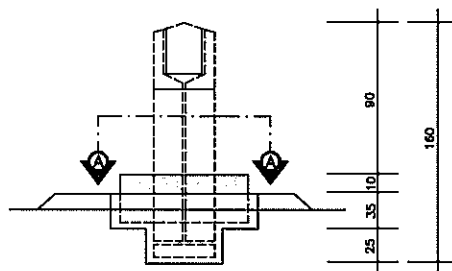
ELEVASI
SKALA 1:10



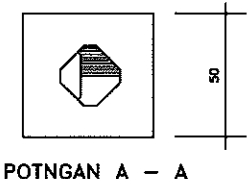
TAMPAK ATAS



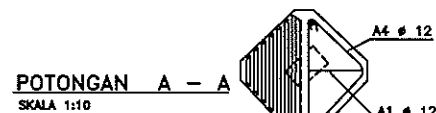
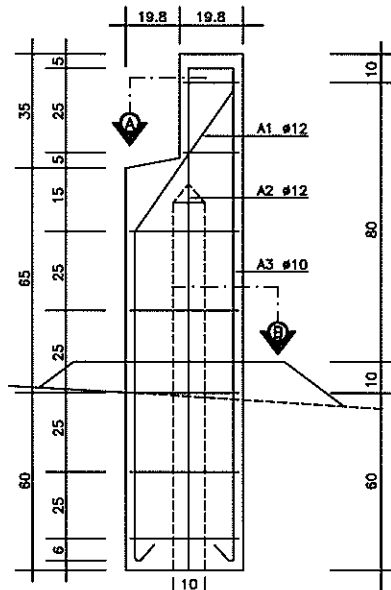
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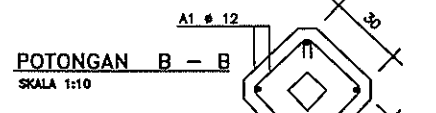
ELEVASI
SKALA 1:20



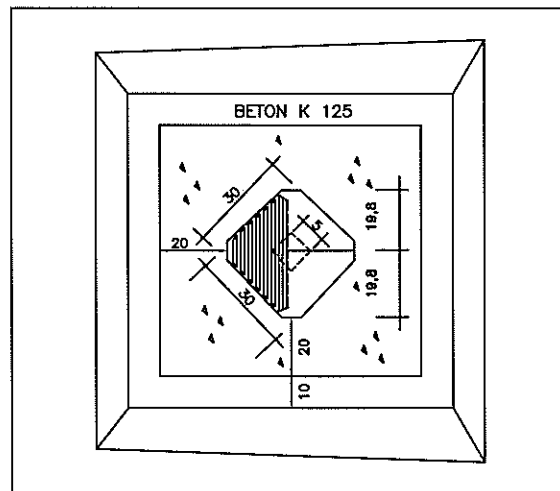
POTONGAN A - A
SKALA 1:20



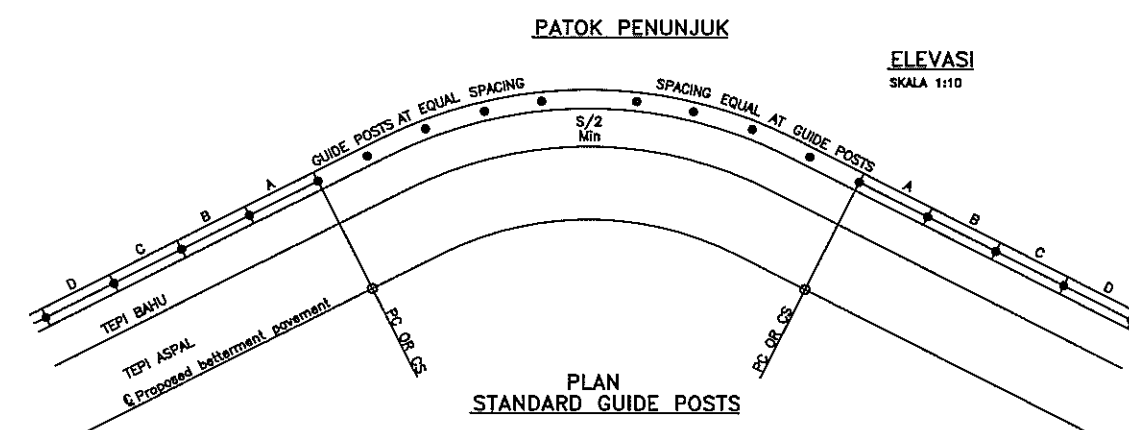
POTONGAN A - A
SKALA 1:10



POTONGAN B - B
SKALA 1:10



DENAH STANDAR PATOK KILOMETER
SKALA 1:10



PLAN
STANDARD GUIDE POSTS

CATATAN

- JARAK PATOK PENUNJUK PATOK DITUNJUKAN PADA TABEL A
- LOKASI PATOK PENUNJUK DITUNJUKAN DATAS

PEMBESIAN PATOK KILOMETER

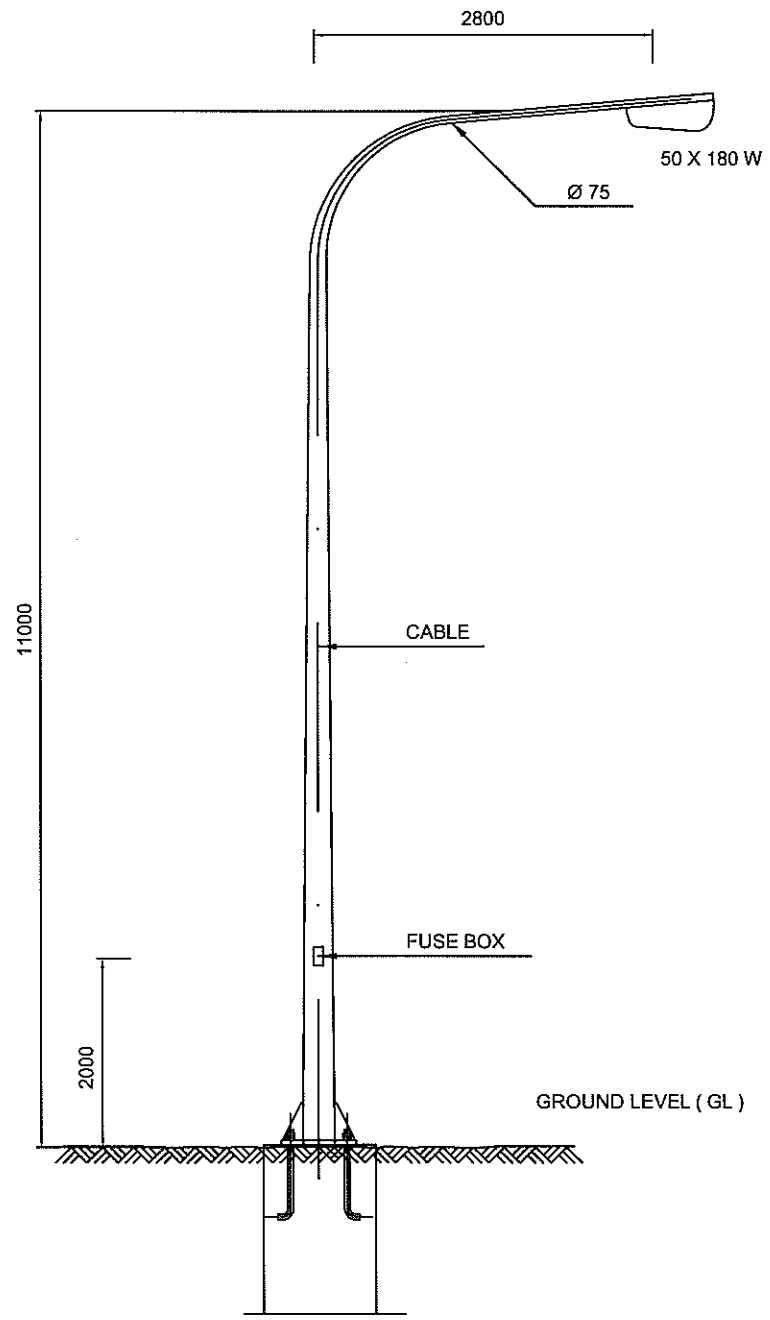
NO.	TYPE	DIMENSION				LENGTH (m)	QUANTITY (to)	TOT LENGTH (kg/m)	UNIT WEIGHT (kg/m)	TOT WEIGHT (kg)	REMARKS
		a	b	c	d						
A1	4	12	152	57	106	3.38	1	3.38	0.848	2.866	1
A2	3	12	152	35	152	3.62	1	3.62	0.848	3.070	2
A3	2	10	25	25	25	1.25	5	6.15	0.617	3.794	3
A4	5	12	35	25	25	1.08	2	2.16	0.848	1.832	4
TOTAL										11.562	

PEMBESIAN PATOK PENUNJUK

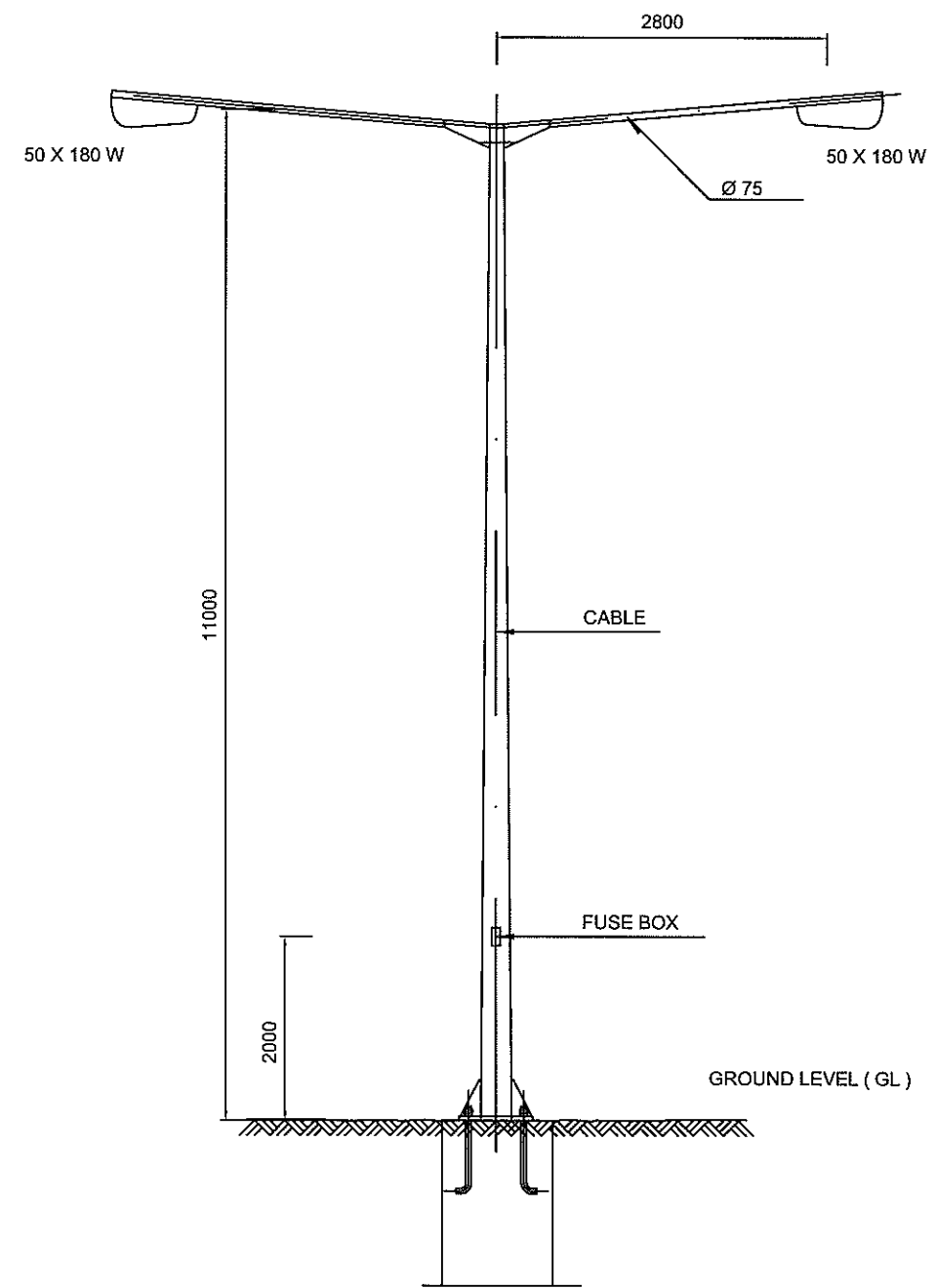
NO.	TYPE	DIMENSION				LENGTH (m)	QUANTITY (to)	TOT LENGTH (kg/m)	UNIT WEIGHT (kg/m)	TOT WEIGHT (kg)	REMARKS
		a	b	c	d						
A1	2	8	12	12	12	0.71	8	5.68	0.395	2.243	5
A2	1	10	140			1.58	4	6.32	0.617	3.900	6
A3	6	12	60			0.60		0.60	0.848	0.509	7
TOTAL										6.652	

TABEL A
JARAK PATOK PENUNJUK

RADIUS-CURVE	JARAK-METER			
	S	A	B	C
180 - 200	15	20	25	30
100 - 180	14	20	25	10
120 - 150	13	15	20	25
90 - 120	12	15	20	25
60 - 90	10	15	20	20
30 - 60	8	10	20	20
30a - 30	6	10	15	15



NOTE
STREET LIGHTING TYPE -A (1) & (2)
A(1) WITH FONDATION
A(2) WITHOUT FOUNDATION



NOTE
STREET LIGHTING TYPE -B (1) & (2)
A(1) WITH FONDATION
A(2) WITHOUT FOUNDATION

