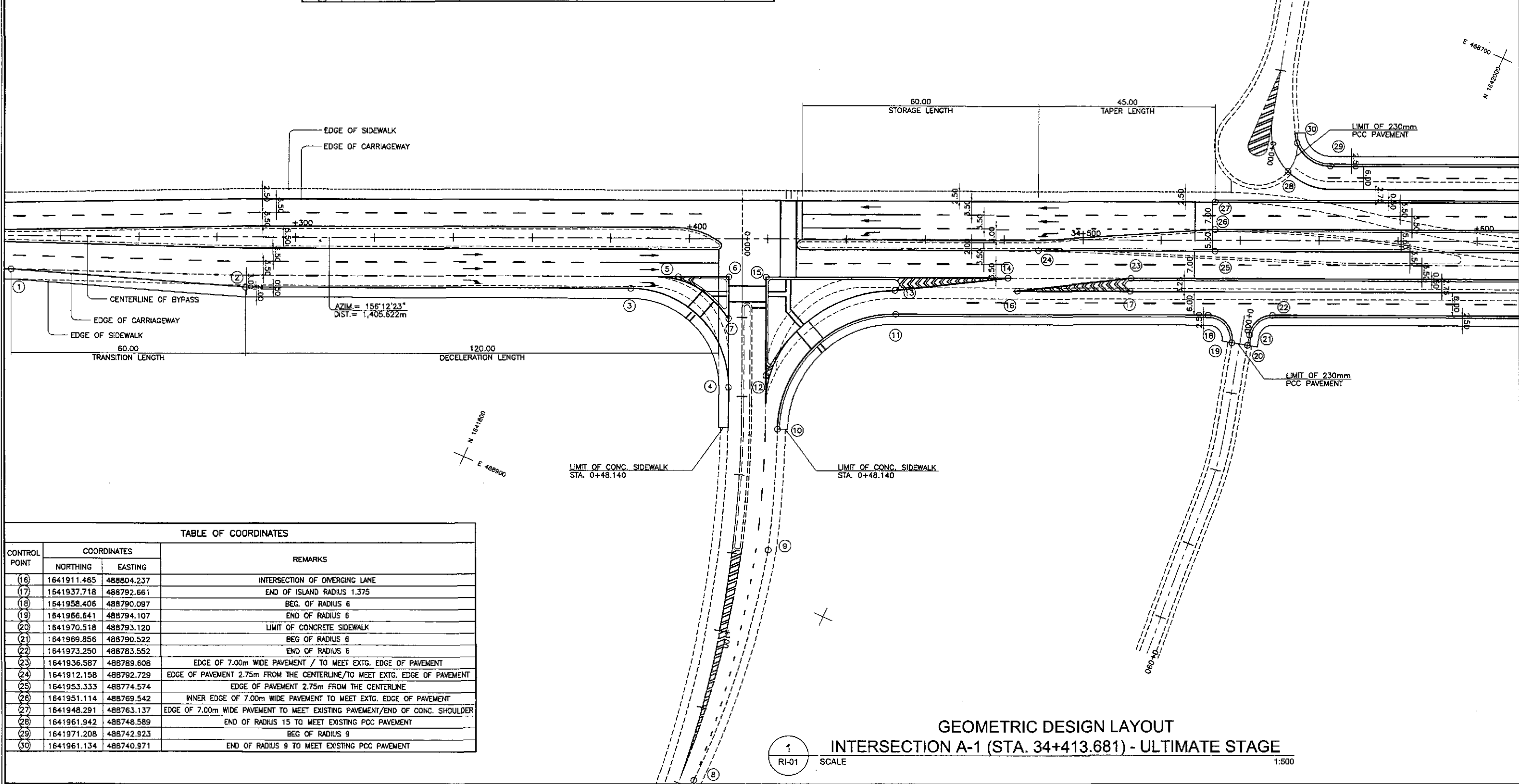


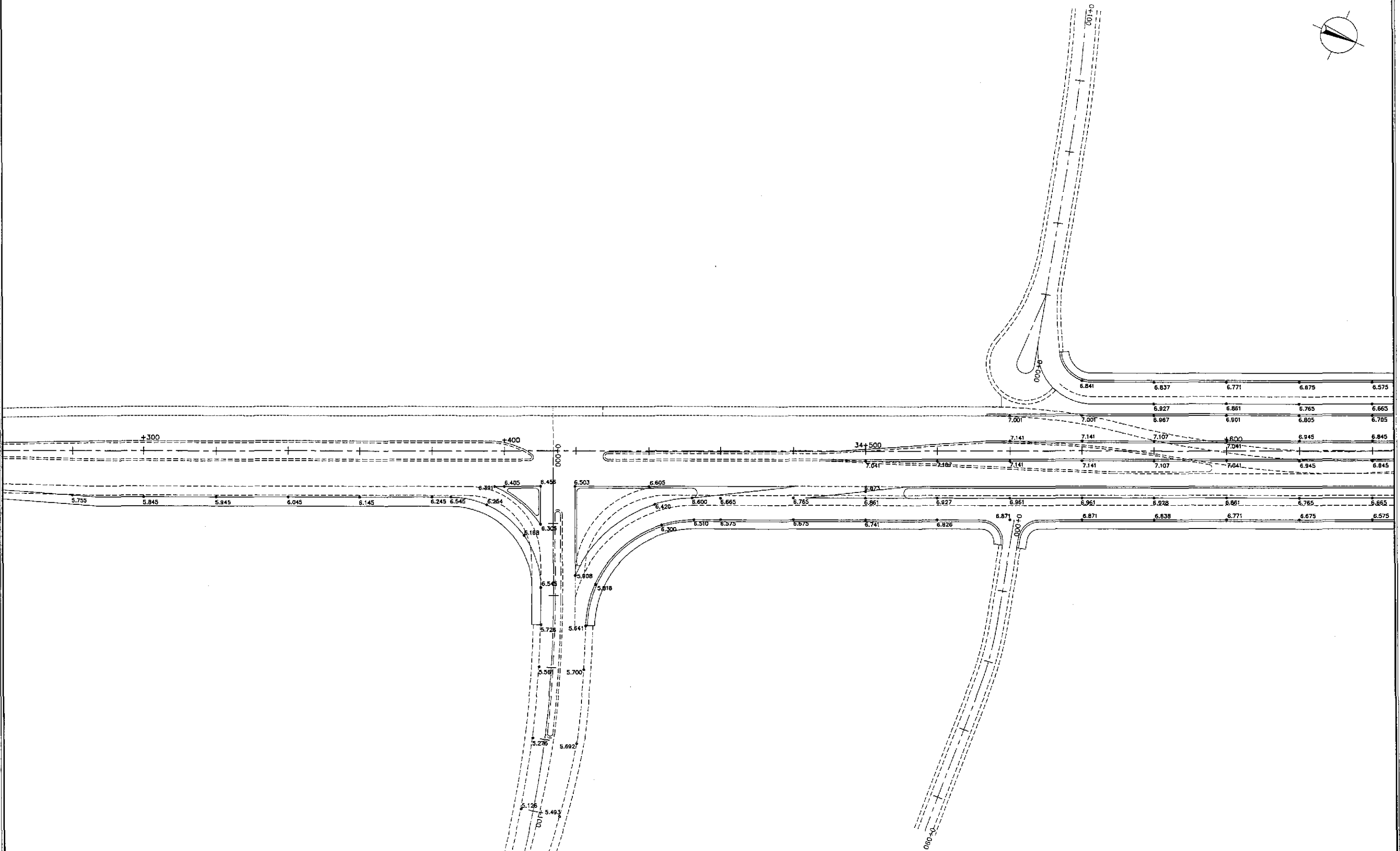
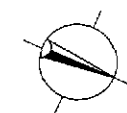
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
(1)	1641675.300	488903.448	BEG. OF TRANSITION TO MEET EXISTING
(2)	1641731.943	488883.118	END OF TRANSITION, PAVEMENT 10.00m WIDE
(3)	1641821.489	488843.635	BEG. OF RADIUS 25
(4)	1641854.451	488856.424	END OF RADIUS 25 TO MEET EXISTING EDGE OF PAVEMENT
(5)	1641831.345	488836.011	PAVEMENT INTERSECTION AT ISLAND LOCATION / TO MEET EXISTING PAVEMENT
(6)	1641843.154	488830.804	PAVEMENT INTERSECTION AT ISLAND LOCATION TO MEET EXISTING PAVEMENT
(7)	1641847.402	488840.438	PAVEMENT INTERSECTION AT ISLAND LOCATION TO MEET EXISTING PAVEMENT
(8)	1641886.675	488951.258	END OF TRANSITION RADIUS 224.296, TO MEET EXISTING EDGE OF PAVEMENT
(9)	1641880.472	488890.182	INTERSECTION OF RADIUS 224.296 & 30, END OF TRANSITION
(10)	1641870.086	488861.093	BEG. OF RADIUS 30
(11)	1641885.696	488822.156	END OF RADIUS 30
(12)	1641881.933	488849.847	INTERSECTION OF ISLAND RADIUS 36 & 1.375 / TO MEET EXISTING EDGE OF PAVEMENT
(13)	1641883.084	488816.713	END OF ISLAND RADIUS 36
(14)	1641907.940	488802.239	INTERSECTION OF MERGING LANE
(15)	1641851.847	488826.972	PAVEMENT INTERSECTION AT ISLAND LOCATION / TO MEET EXISTING EDGE OF PAVEMENT



CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
(16)	1641911.465	488804.237	INTERSECTION OF DIVERGING LANE
(17)	1641937.718	488792.661	END OF ISLAND RADIUS 1.375
(18)	1641958.406	488790.097	BEG. OF RADIUS 6
(19)	1641966.841	488794.107	END OF RADIUS 6
(20)	1641970.518	488793.120	LIMIT OF CONCRETE SIDEWALK
(21)	1641969.856	488790.522	BEG. OF RADIUS 6
(22)	1641973.250	488783.552	END OF RADIUS 6
(23)	1641936.587	488789.608	EDGE OF 7.00m WIDE PAVEMENT / TO MEET EXTG. EDGE OF PAVEMENT
(24)	1641912.158	488792.729	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE/TO MEET EXTG. EDGE OF PAVEMENT
(25)	1641953.333	488774.574	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
(26)	1641951.114	488769.542	INNER EDGE OF 7.00m WIDE PAVEMENT TO MEET EXTG. EDGE OF PAVEMENT
(27)	1641948.291	488763.137	EDGE OF 7.00m WIDE PAVEMENT TO MEET EXISTING PAVEMENT/END OF CONC. SHOULDER
(28)	1641961.942	488748.589	END OF RADIUS 15 TO MEET EXISTING PCC PAVEMENT
(29)	1641971.208	488742.923	BEG. OF RADIUS 9
(30)	1641961.134	488740.971	END OF RADIUS 9 TO MEET EXISTING PCC PAVEMENT

GEOMETRIC DESIGN LAYOUT
 INTERSECTION A-1 (STA. 34+413.681) - ULTIMATE STAGE
 SCALE 1:500

	DESIGNED	DATE	SIGNATURE		PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/14/02	SIGNATURE		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I			1:500	INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-1 (ULTIMATE STAGE)	RI-01	
SUBMITTED 9/23/02 TEAM LEADER				DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANO Project Director			OFFICE OF THE SECRETARY Recommended By: JOSEFINA M. ALAGAR Chief, Highways Division Recommended By: GILBERTO S. REYES OIC, Director IV Recommended By: MANUEL M. BONDAN Undersecretary Approved By: SIMEON A. DATUMANONG Secretary			FULL SIZE A1	



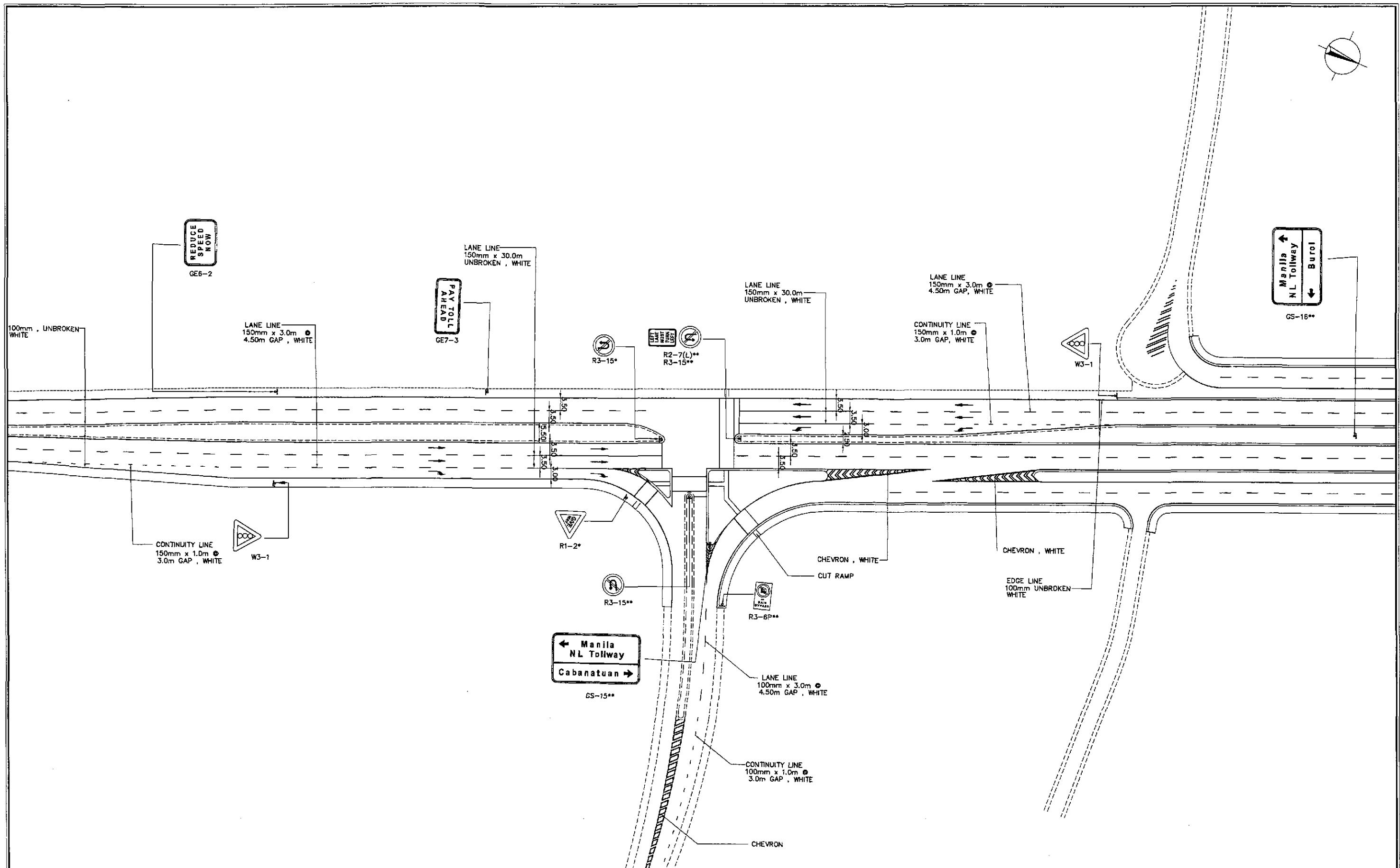
PAVING AND GRADING PLAN
INTERSECTION A-1 (STA. 34+413.681) - ULTIMATE STAGE

1
RI-02

SCALE

1:500

	DESIGNED	9/19/02	[Signature]	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/21/02	[Signature]	BUREAU OF DESIGN OFFICE OF THE SECRETARY			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	1:500	INTERSECTION DETAIL PAVING AND GRADING PLAN INTERSECTION A-1 (ULTIMATE STAGE)	RI-02
	SUBMITTED	9/23/02	[Signature]	Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By: GILBERTO S. REYES DIC, Director IV	PLARIDEL BYPASS - CONTRACT PACKAGE I	FULL SIZE A1		

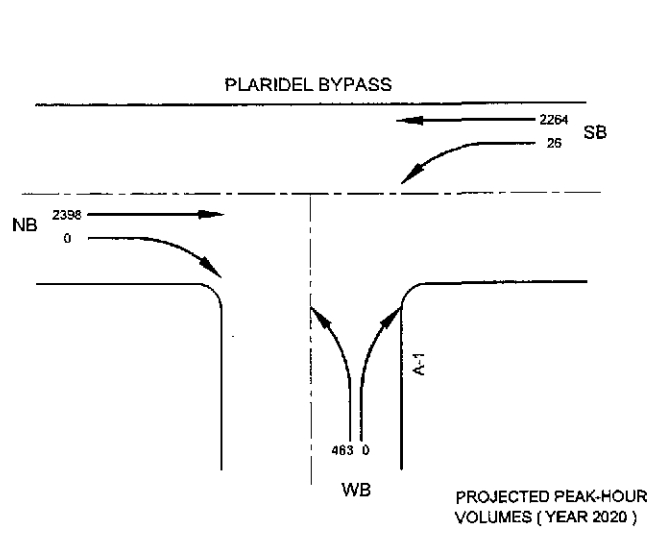
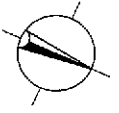


TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN
 INTERSECTION A-1, (STA. 34+413.681) ULTIMATE STAGE

1
 RI-03

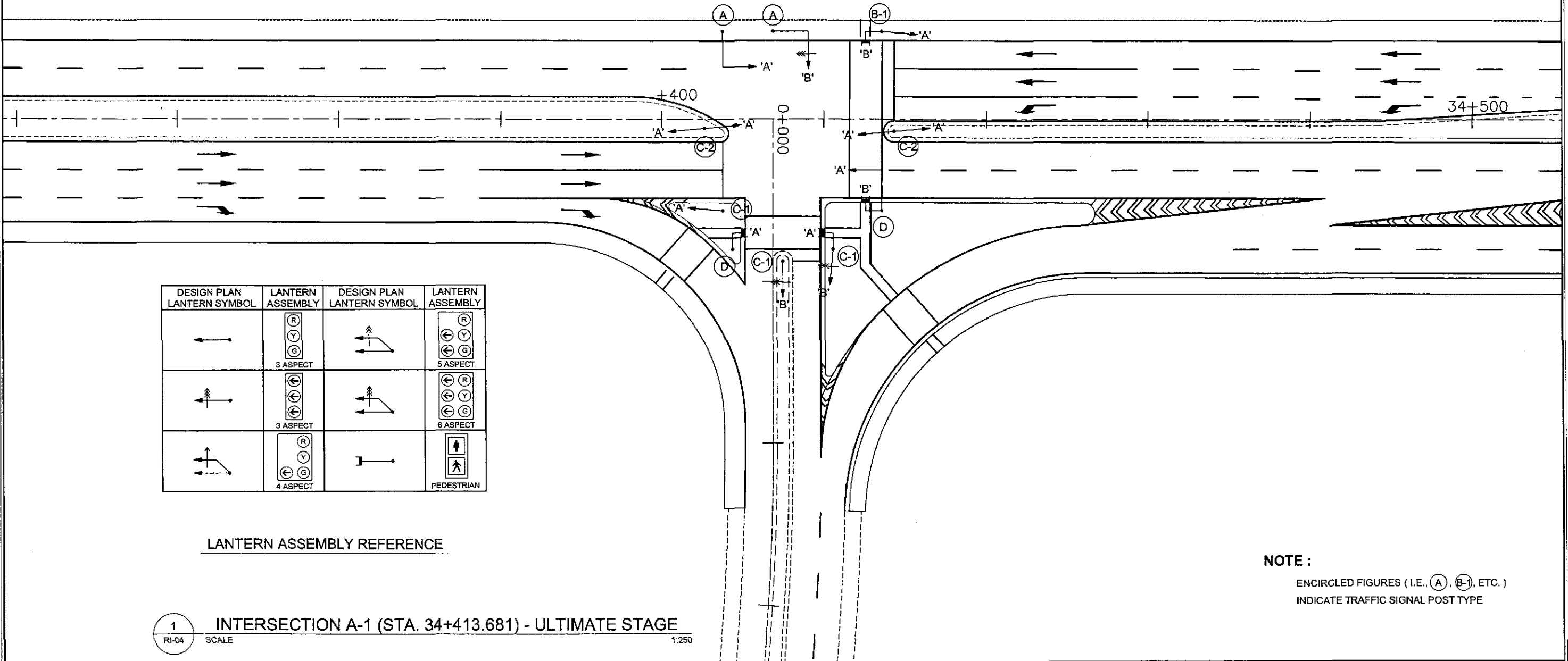
SCALE 1:500

	DESIGNED	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/21/02	<i>S. Luna</i>	BUREAU OF DESIGN				THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	1:500 FULL SIZE A1	TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN INTERSECTION A-1 (ULTIMATE STAGE)	RI-03
	SUBMITTED	9/22/02	<i>Dr. R. Sison</i>	Submitted By:	Reviewed By:	Recommended By:	Approved By:				
			DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONDAN Undersecretary	SIMEDON A. DATUMANONG Secretary				



SIGNAL PHASING

	(A)	(B)
G:	110.1	31.9
Y:	2.0	2.0
R:	2.0	2.0
C = 150.0 secs.		



LANTERN ASSEMBLY REFERENCE

DESIGN PLAN LANTERN SYMBOL	LANTERN ASSEMBLY	DESIGN PLAN LANTERN SYMBOL	LANTERN ASSEMBLY

NOTE :
ENCIRCLED FIGURES (I.E., (A), (B-1), ETC.)
INDICATE TRAFFIC SIGNAL POST TYPE

1 INTERSECTION A-1 (STA. 34+413.681) - ULTIMATE STAGE
RI-04 SCALE 1:250

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/19/02		BUREAU OF DESIGN	OFFICE OF THE SECRETARY	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	1:250	TRAFFIC SIGNAL LIGHT LAYOUT INTERSECTION A-1 (ULTIMATE STAGE)	RI-04
	SUBMITTED	9/23/02		BUREAU OF DESIGN	OFFICE OF THE SECRETARY	PLARIDEL BYPASS - CONTRACT PACKAGE I	FULL SIZE A1		

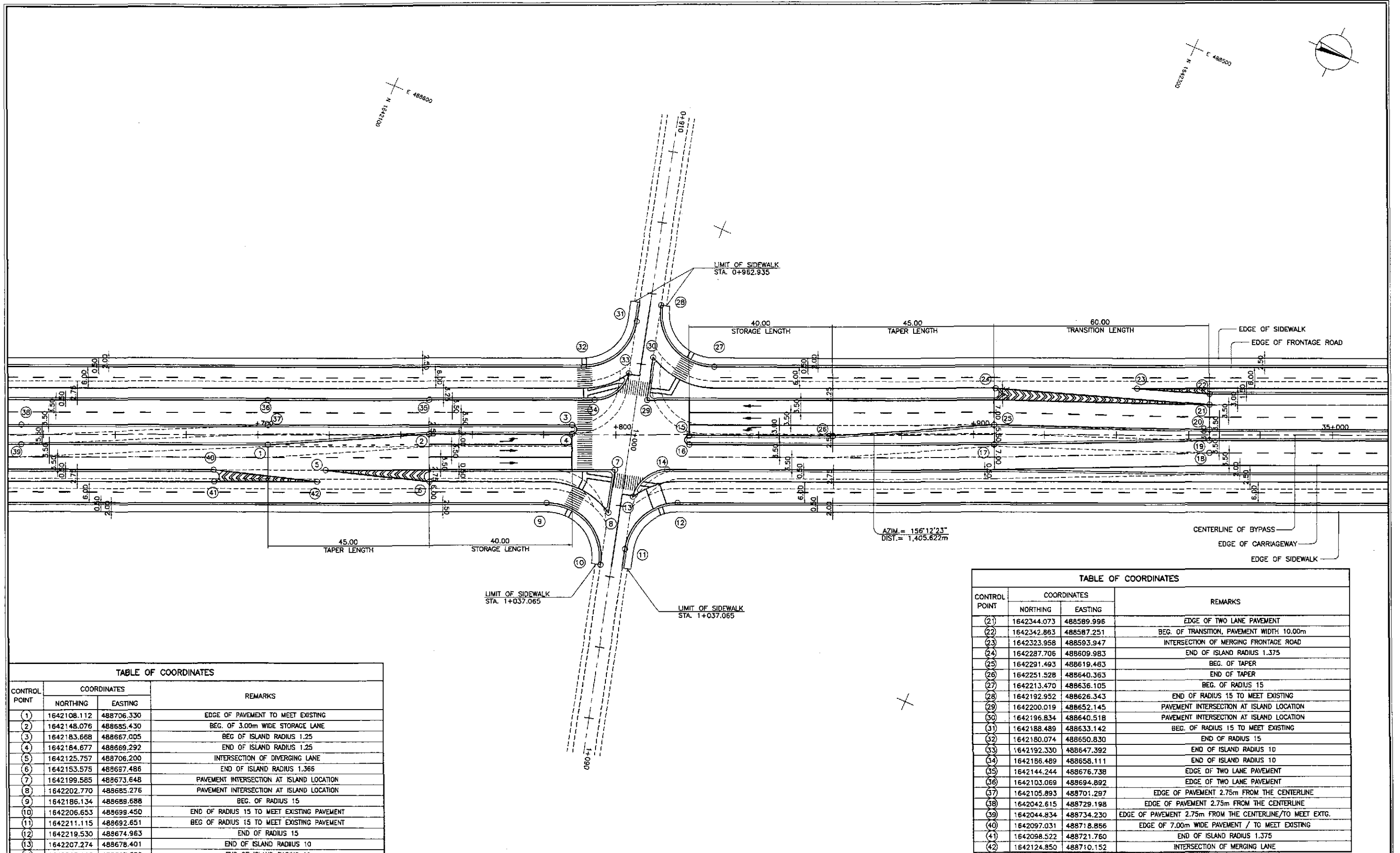
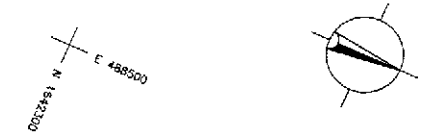


TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1642108.112	488706.330	EDGE OF PAVEMENT TO MEET EXISTING
2	1642148.076	488685.430	BEG. OF 3.00m WIDE STORAGE LANE
3	1642183.668	488667.005	BEG OF ISLAND RADIUS 1.25
4	1642184.677	488669.292	END OF ISLAND RADIUS 1.25
5	1642125.757	488706.200	INTERSECTION OF DIVERGING LANE
6	1642153.575	488697.486	END OF ISLAND RADIUS 1.366
7	1642199.585	488673.648	PAVEMENT INTERSECTION AT ISLAND LOCATION
8	1642202.770	488685.276	PAVEMENT INTERSECTION AT ISLAND LOCATION
9	1642186.134	488689.688	BEG. OF RADIUS 15
10	1642206.653	488699.450	END OF RADIUS 15 TO MEET EXISTING PAVEMENT
11	1642211.115	488692.651	BEG OF RADIUS 15 TO MEET EXISTING PAVEMENT
12	1642219.530	488674.963	END OF RADIUS 15
13	1642207.274	488678.401	END OF ISLAND RADIUS 10
14	1642213.116	488667.682	END OF ISLAND RADIUS 10
15	1642214.927	488658.501	BEG. OF ISLAND RADIUS 1.25
16	1642215.936	488658.788	END OF ISLAND RADIUS 1.25
17	1642293.712	488624.496	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
18	1642349.520	488602.348	CENTER OF TWO LANE PAVEMENT TO MEET EXISTING
19	1642348.108	488599.146	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE TO MEET EXISTING
20	1642346.897	488596.401	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE

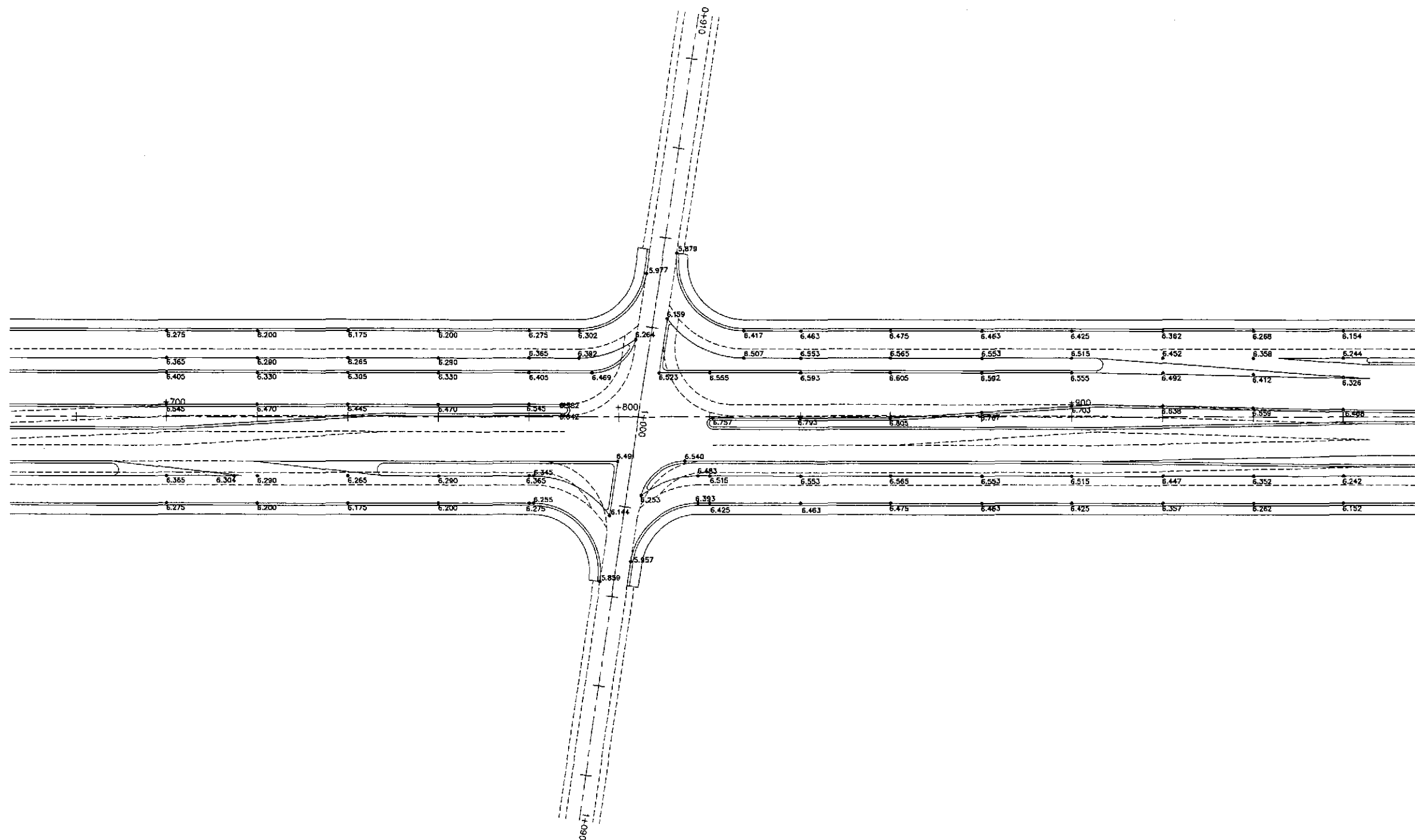
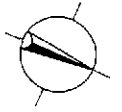
TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
21	1642344.073	488589.996	EDGE OF TWO LANE PAVEMENT
22	1642342.863	488587.251	BEG OF TRANSITION, PAVEMENT WIDTH 10.00m
23	1642323.958	488593.947	INTERSECTION OF MERGING FRONTAGE ROAD
24	1642287.706	488609.983	END OF ISLAND RADIUS 1.375
25	1642291.493	488619.463	BEG. OF TAPER
26	1642251.528	488640.363	END OF TAPER
27	1642213.470	488636.105	BEG. OF RADIUS 15
28	1642192.952	488626.343	END OF RADIUS 15 TO MEET EXISTING
29	1642200.019	488652.145	PAVEMENT INTERSECTION AT ISLAND LOCATION
30	1642196.834	488640.518	PAVEMENT INTERSECTION AT ISLAND LOCATION
31	1642188.489	488633.142	BEG. OF RADIUS 15 TO MEET EXISTING
32	1642180.074	488650.830	END OF RADIUS 15
33	1642192.330	488647.392	END OF ISLAND RADIUS 10
34	1642186.489	488658.111	END OF ISLAND RADIUS 10
35	1642144.244	488676.738	EDGE OF TWO LANE PAVEMENT
36	1642103.069	488694.892	EDGE OF TWO LANE PAVEMENT
37	1642105.893	488701.297	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
38	1642042.615	488729.198	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
39	1642044.834	488734.230	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE/TO MEET EXTG.
40	1642097.031	488718.856	EDGE OF 7.00m WIDE PAVEMENT / TO MEET EXISTING
41	1642098.522	488721.760	END OF ISLAND RADIUS 1.375
42	1642124.850	488710.152	INTERSECTION OF MERGING LANE

GEOMETRIC DESIGN LAYOUT
INTERSECTION A-2 (STA. 34+804.257) - ULTIMATE STAGE

1
RI-05

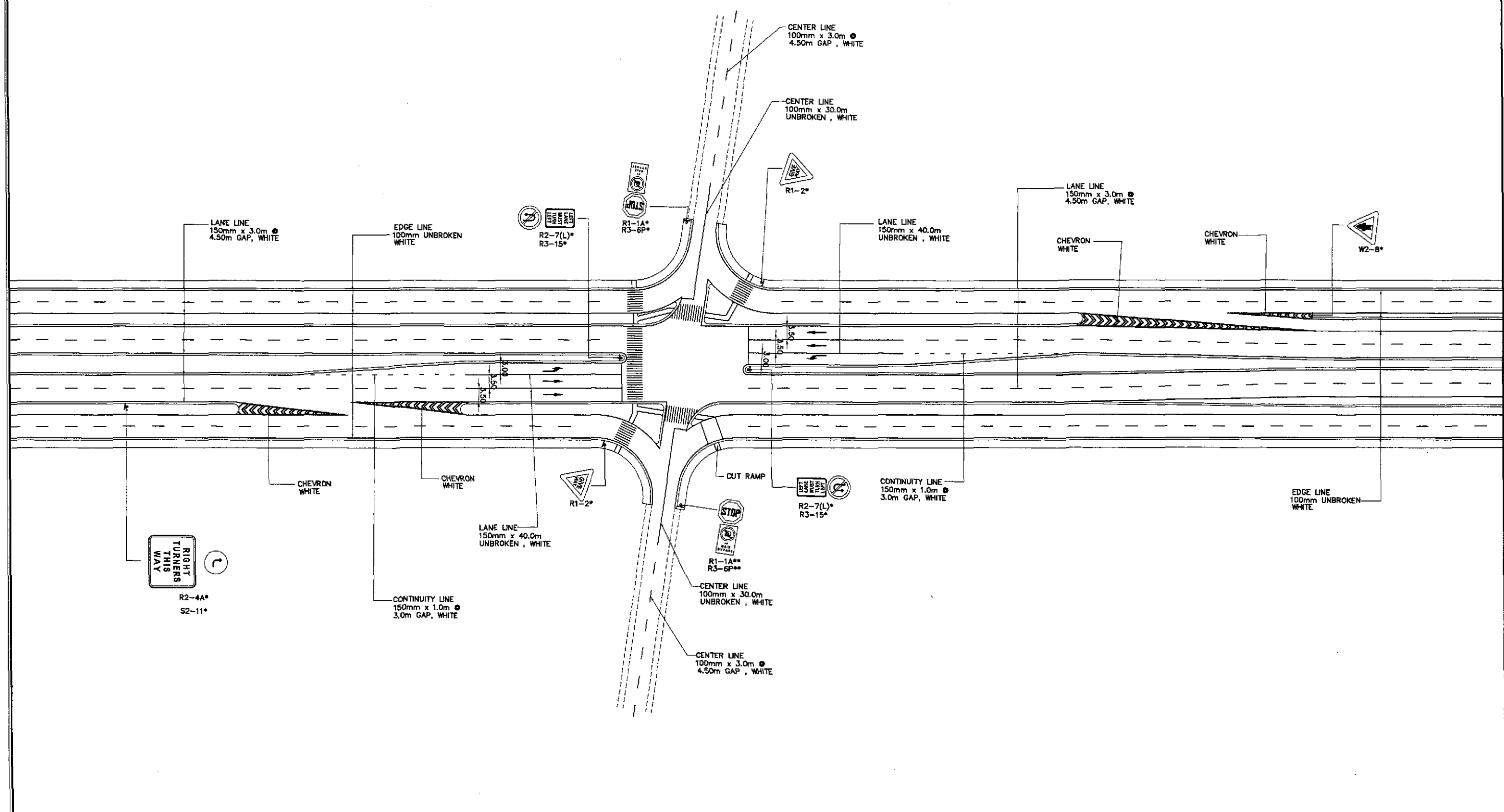
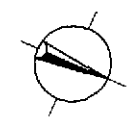
1:500

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS					PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	DATE	SIGNATURE		BUREAU OF DESIGN					THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	1:500	INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-2 (ULTIMATE STAGE)	RI-05
	SUBMITTED	DATE	SIGNATURE		Submitted By:	Reviewed By:	Recommended By:	Approved By:	PLARIDEL BYPASS - CONTRACT PACKAGE I				



1
 PAVING AND GRADING PLAN
 INTERSECTION A-2 (STA. 34+804.257) - ULTIMATE STAGE
 SCALE 1:500

		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:500 FULL SIZE A1	SHEET CONTENTS : INTERSECTION DETAIL PAVING AND GRADING PLAN INTERSECTION A-2 (ULTIMATE STAGE)	SHEET NO. : RI-06	
	DESIGNED: 9/19/02 CHECKED: 9/21/02 SUBMITTED: 9/23/02	Submitted By: DANLO C. TRAJANO Project Director	Reviewed By: JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By: GILBERTO S. REYES OIC, Director IV	Recommended By: MANUEL M. BONDAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary	
	DATE: 9/19/02 DATE: 9/21/02 DATE: 9/23/02	SIGNATURE: [Signature] SIGNATURE: [Signature] SIGNATURE: [Signature]	SIGNATURE: [Signature]	SIGNATURE: [Signature]	SIGNATURE: [Signature]	SIGNATURE: [Signature]	



**TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN
INTERSECTION A-2, (STA. 34+804.257) ULTIMATE STAGE**

1
RI-07

SCALE

1:500

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS
INTERNATIONAL

yeo YACHIYO ENGINEERING CO., LTD.

DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				
DESIGNED 9/19/02	<i>[Signature]</i>	BUREAU OF DESIGN		OFFICE OF THE SECRETARY		
CHECKED 9/21/02	<i>[Signature]</i>	Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:
SUBMITTED 9/23/02	<i>[Signature]</i>	DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES Dir., Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(Plaridel, Cabanatuan and San Jose Bypasses)

PLARIDEL BYPASS - CONTRACT PACKAGE I

SCALE :
1:500
FULL SIZE A1

SHEET CONTENTS :
TRAFFIC SIGNS AND PAVEMENT
MARKINGS LAYOUT PLAN
INTERSECTION A-2 (ULTIMATE STAGE)

SHEET NO. :
RI-07

TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1643407.045	488161.795	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE / TO MEET EXISTING
2	1643465.355	488147.823	BEG. OF TAPER 2.75m FROM THE CENTERLINE
3	1643508.397	488134.433	BEG. OF 3.00m WIDE STORAGE LANE 0.25m FROM THE CENTERLINE
4	1643546.933	488123.335	BEG. OF MEDIAN RADIUS 1.25
5	1643547.454	488125.780	END OF MEDIAN RADIUS 1.25
6	1643408.899	488168.545	EDGE OF 7.00m WIDE PAVEMENT / TO MEET EXISTING
7	1643409.693	488171.438	INTERSECTION OF MERGING LANE
8	1643427.349	488168.211	INTERSECTION OF DIVERGING LANE
9	1643467.832	488157.770	EDGE OF 6.00m WIDE FRONTAGE ROAD
10	1643467.047	488154.616	EDGE OF 7.00m WIDE PAVEMENT
11	1643562.998	488132.730	PAVEMENT INTERSECTION AT ISLAND LOCATION
12	1643566.784	488139.732	PAVEMENT INTERSECTION AT ISLAND LOCATION
13	1643552.934	488144.295	BEG. OF CORNER RADIUS 20
14	1643574.685	488154.346	END OF CORNER RADIUS 20 TO MEET EXISTING/END OF SIDEWALK
15	1643575.110	488120.558	BEG. OF MEDIAN RADIUS 1.25
16	1643575.604	488123.009	END OF MEDIAN RADIUS 1.25
17	1643659.108	488107.662	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
18	1643718.140	488097.309	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE TO MEET EXISTING
19	1643717.746	488094.334	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE
20	1643558.206	488102.236	END OF TRANSITION 2.75m FROM THE CENTERLINE

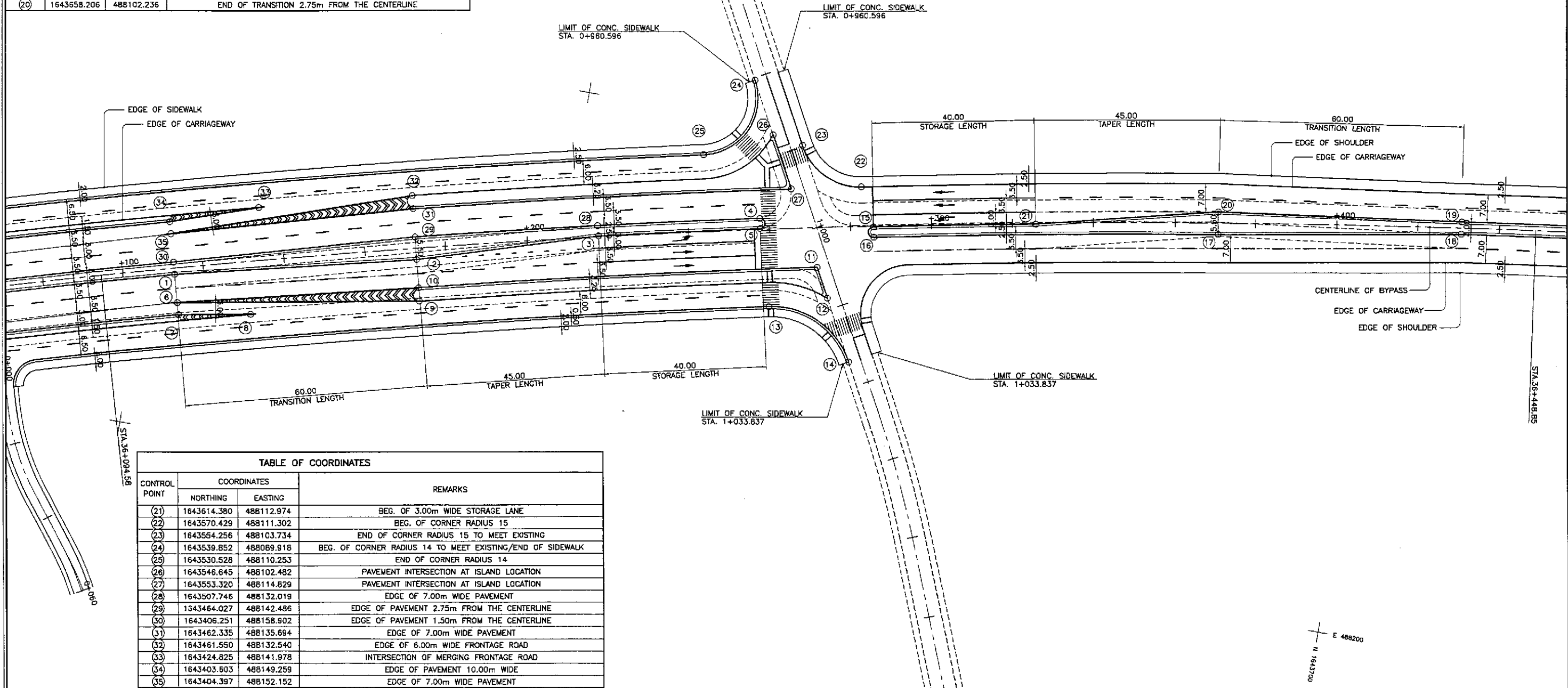
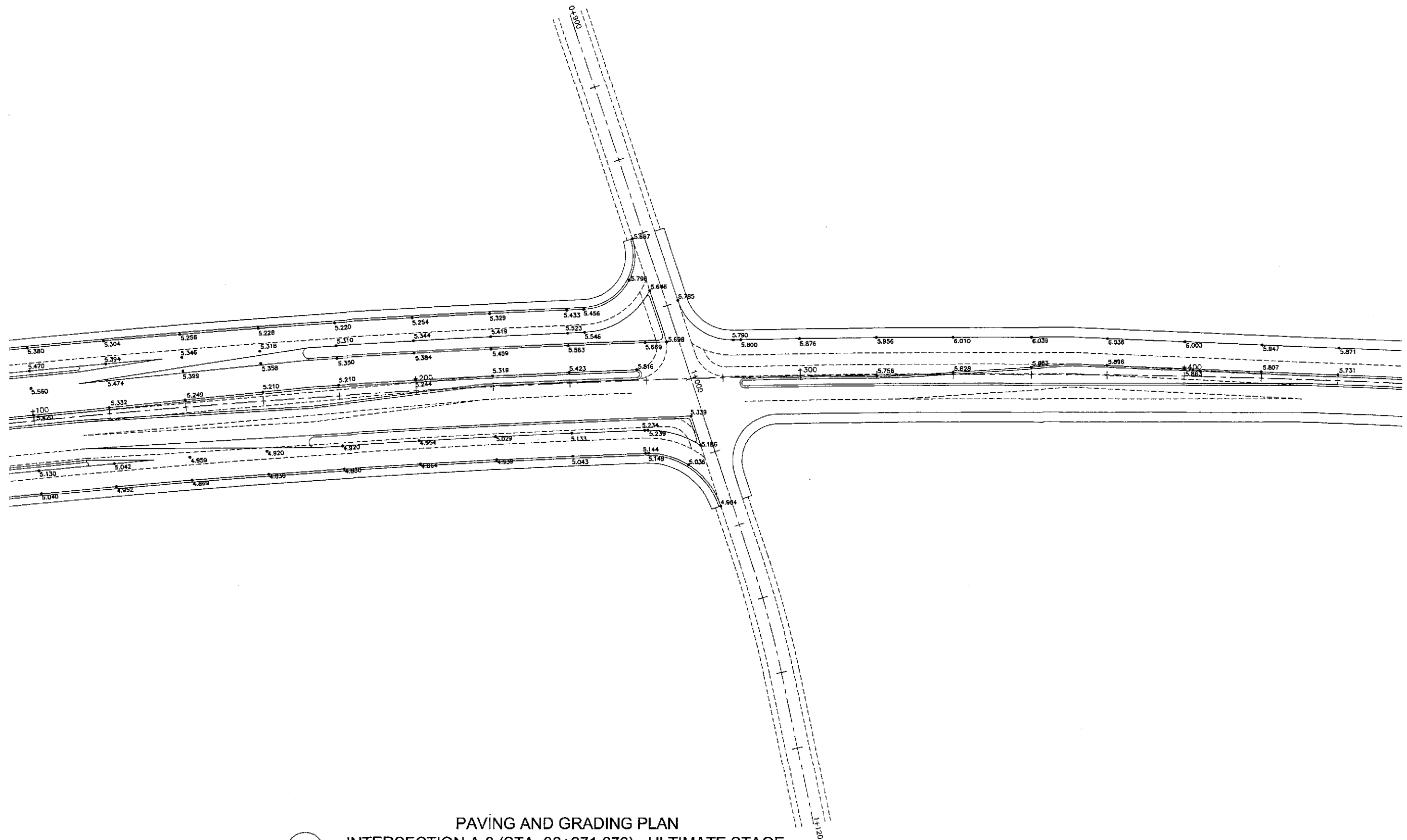
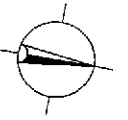


TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
21	1643614.380	488112.974	BEG. OF 3.00m WIDE STORAGE LANE
22	1643570.429	488111.302	BEG. OF CORNER RADIUS 15
23	1643554.256	488103.734	END OF CORNER RADIUS 15 TO MEET EXISTING
24	1643539.852	488089.918	BEG. OF CORNER RADIUS 14 TO MEET EXISTING/END OF SIDEWALK
25	1643530.528	488110.253	END OF CORNER RADIUS 14
26	1643546.645	488102.482	PAVEMENT INTERSECTION AT ISLAND LOCATION
27	1643553.320	488114.829	PAVEMENT INTERSECTION AT ISLAND LOCATION
28	1643507.746	488132.019	EDGE OF 7.00m WIDE PAVEMENT
29	1643464.027	488142.486	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
30	1643406.251	488158.902	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE
31	1643462.335	488135.694	EDGE OF 7.00m WIDE PAVEMENT
32	1643461.550	488132.540	EDGE OF 6.00m WIDE FRONTAGE ROAD
33	1643424.825	488141.978	INTERSECTION OF MERGING FRONTAGE ROAD
34	1643403.603	488149.259	EDGE OF PAVEMENT 10.00m WIDE
35	1643404.397	488152.152	EDGE OF 7.00m WIDE PAVEMENT

1
RI-08 SCALE 1:500

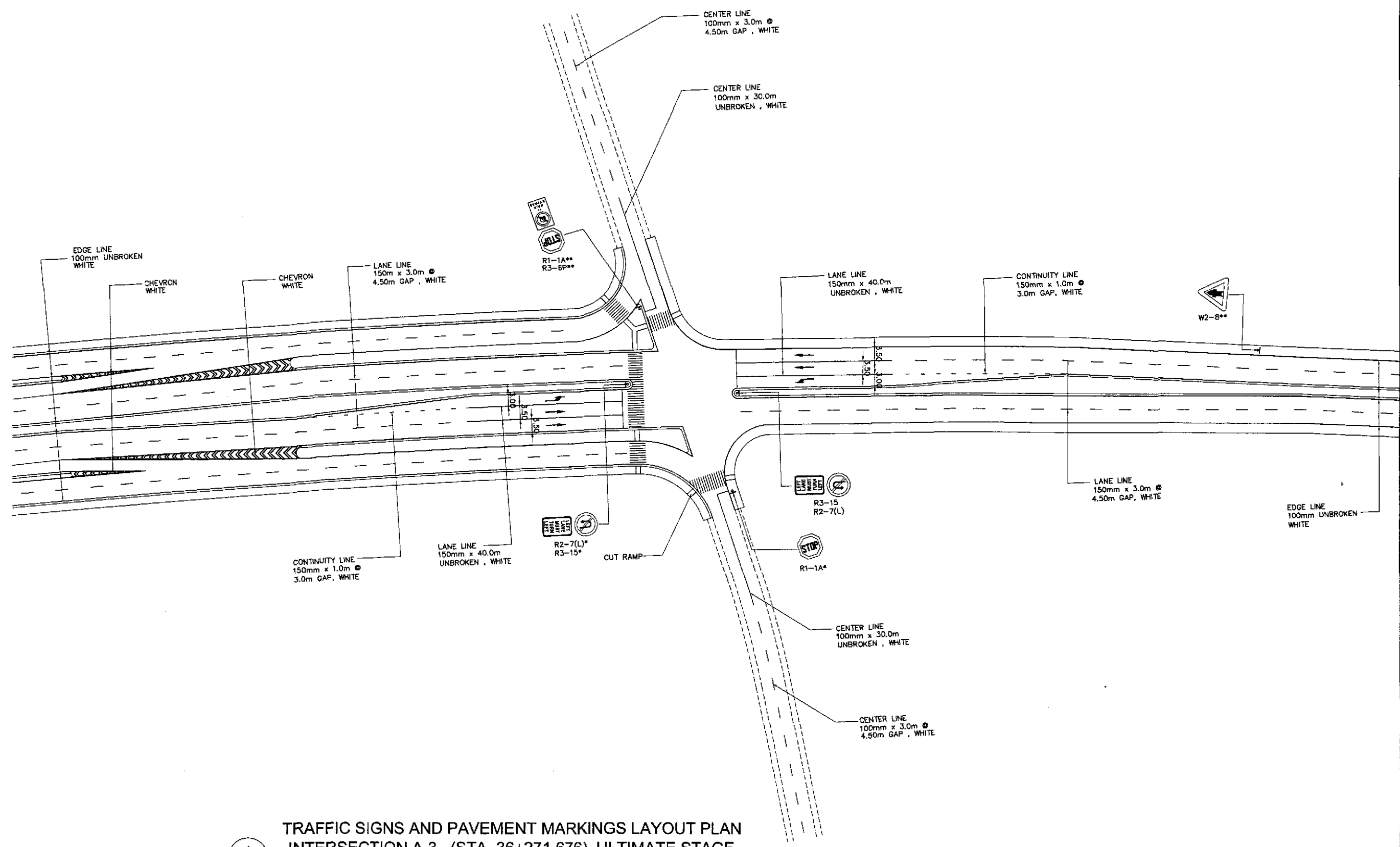
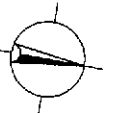
**GEOMETRIC DESIGN LAYOUT
INTERSECTION A-3 (STA. 36+271.676) - ULTIMATE STAGE**

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :			
	CHECKED	9/21/02	S. G. ROSE		BUREAU OF DESIGN				THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)				1:500	INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-3 (ULTIMATE STAGE)	RI-08
	SUBMITTED	9/23/02	M. R. RANON		Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:	PLARIDEL BYPASS - CONTRACT PACKAGE I	FULL SIZE A1				



PAVING AND GRADING PLAN
 INTERSECTION A-3 (STA. 36+271.676) - ULTIMATE STAGE
 SCALE 1:500

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL YEO YACHIYO ENGINEERING CO., LTD.	DESIGNED	9/19/02	SIGNATURE	[Signature]	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANO, Project Director Reviewed By: JOSEFINA M. ALAGAR, Chief, Highways Division Recommended By: GILBERTO S. REYES, OIC, Director IV Recommended By: MANUEL M. BONDAN, Undersecretary Approved By: SIMEON A. DATUMANONG, Secretary	PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/25/02	SIGNATURE	[Signature]		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	1:500	INTERSECTION DETAIL PAVING AND GRADING PLAN INTERSECTION A-3 (ULTIMATE STAGE)	RI-09
	SUBMITTED	9/27/02	SIGNATURE	[Signature]		PLARIDEL BYPASS - CONTRACT PACKAGE I	FULL SIZE A1		
			DATE	SIGNATURE					



1
RI-10

SCALE

1:500

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL

YEO YACHIYO ENGINEERING CO., LTD.

DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				
DESIGNED: 9/19/02	<i>S. LUNA</i>	BUREAU OF DESIGN		OFFICE OF THE SECRETARY		
CHECKED: 9/21/02	<i>S. SOSE</i>	Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:
SUBMITTED: 9/23/02	<i>M. RITCHIE</i>	DANILO C. TRILLANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONDAN Undersecretary	SIMEDON A. DATUMANONG Secretary

PROJECT AND LOCATION :
**THE DETAILED DESIGN STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(Plaridel, Cabanatuan and San Jose Bypasses)**
PLARIDEL BYPASS - CONTRACT PACKAGE I

SCALE :
1:500
FULL SIZE A1

SHEET CONTENTS :
**TRAFFIC SIGNS AND PAVEMENT
MARKINGS LAYOUT PLAN
INTERSECTION A-3 (ULTIMATE STAGE)**

SHEET NO. :
RI-10

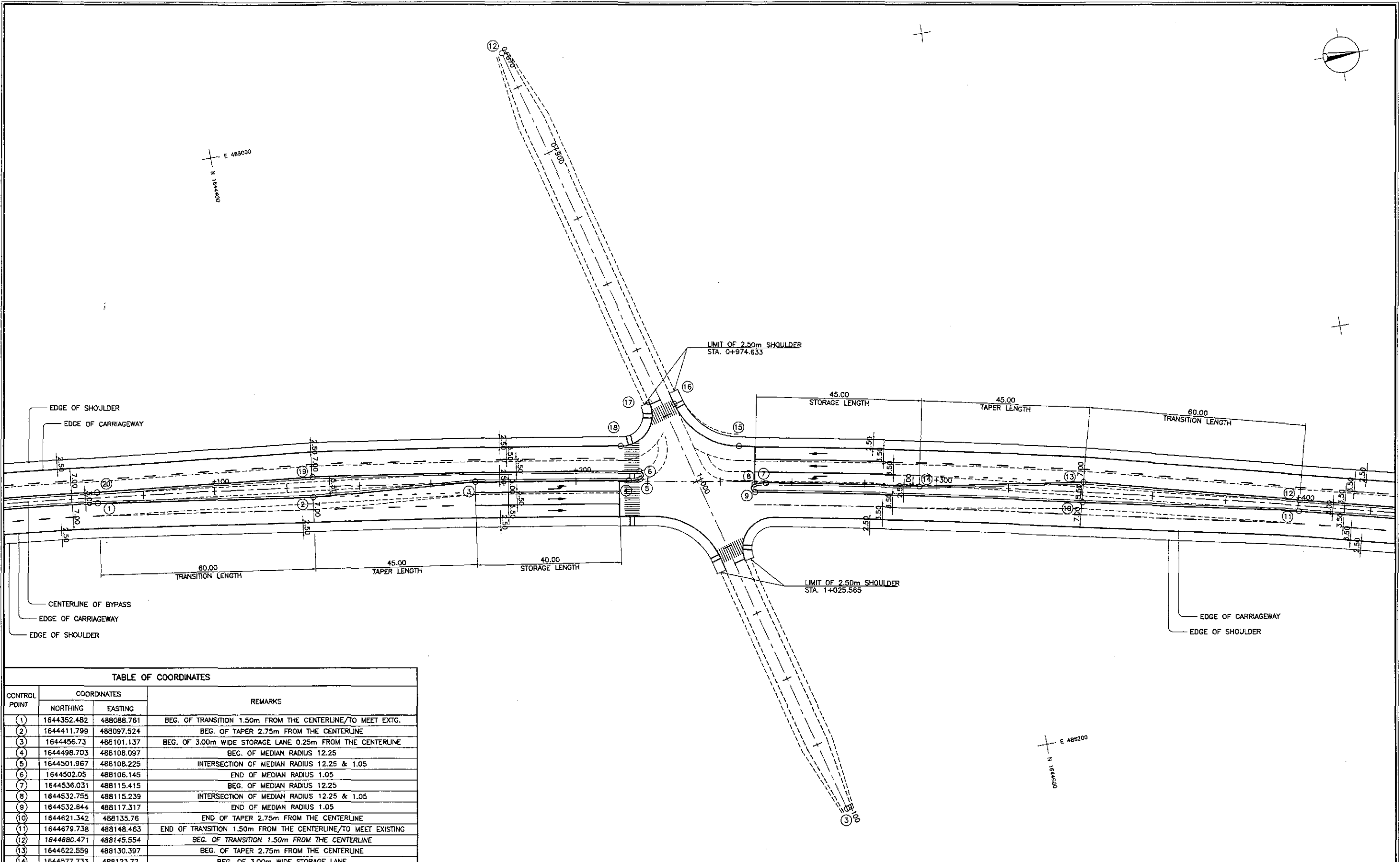


TABLE OF COORDINATES

CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1644352.482	488088.761	BEG. OF TRANSITION 1.50m FROM THE CENTERLINE/TO MEET EXTG.
2	1644411.799	488097.524	BEG. OF TAPER 2.75m FROM THE CENTERLINE
3	1644456.73	488101.137	BEG. OF 3.00m WIDE STORAGE LANE 0.25m FROM THE CENTERLINE
4	1644498.703	488108.097	BEG. OF MEDIAN RADIUS 12.25
5	1644501.967	488108.225	INTERSECTION OF MEDIAN RADIUS 12.25 & 1.05
6	1644502.05	488106.145	END OF MEDIAN RADIUS 1.05
7	1644536.031	488115.415	BEG. OF MEDIAN RADIUS 12.25
8	1644532.755	488115.239	INTERSECTION OF MEDIAN RADIUS 12.25 & 1.05
9	1644532.644	488117.317	END OF MEDIAN RADIUS 1.05
10	1644621.342	488135.76	END OF TAPER 2.75m FROM THE CENTERLINE
11	1644679.738	488148.463	END OF TRANSITION 1.50m FROM THE CENTERLINE/TO MEET EXISTING
12	1644680.471	488145.554	BEG. OF TRANSITION 1.50m FROM THE CENTERLINE
13	1644622.559	488130.397	BEG. OF TAPER 2.75m FROM THE CENTERLINE
14	1644577.733	488123.72	BEG. OF 3.00m WIDE STORAGE LANE
15	1644530.353	488104.167	BEG. OF CORNER RADIUS 20
16	1644514.671	488089.524	END OF CORNER RADIUS 20 TO MEET EXISTING
17	1644507.941	488087.871	BEG. OF CORNER RADIUS 8.50 TO MEET EXISTING/LIMIT OF 2.50m SHLDR.
18	1644498.258	488098.377	END OF CORNER RADIUS 8.50
19	1644412.554	488092.076	END OF TAPER 2.75m FROM THE CENTERLINE
20	1644352.823	488085.781	END OF TRANSITION 1.50m FROM THE CENTERLINE

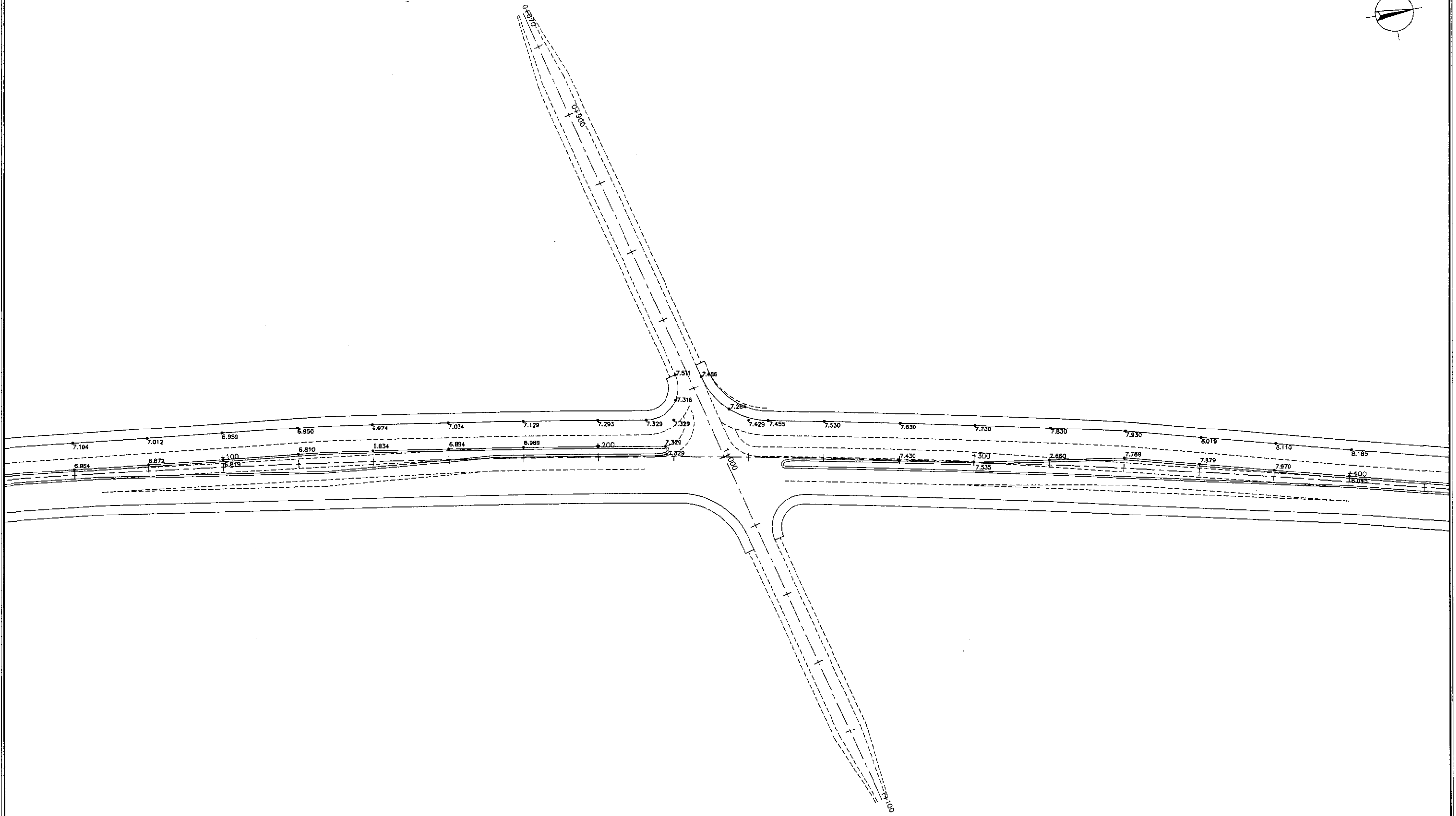
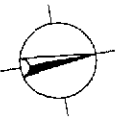
GEOMETRIC DESIGN LAYOUT

INTERSECTION A-4 (STA. 37+233.648) - ULTIMATE STAGE



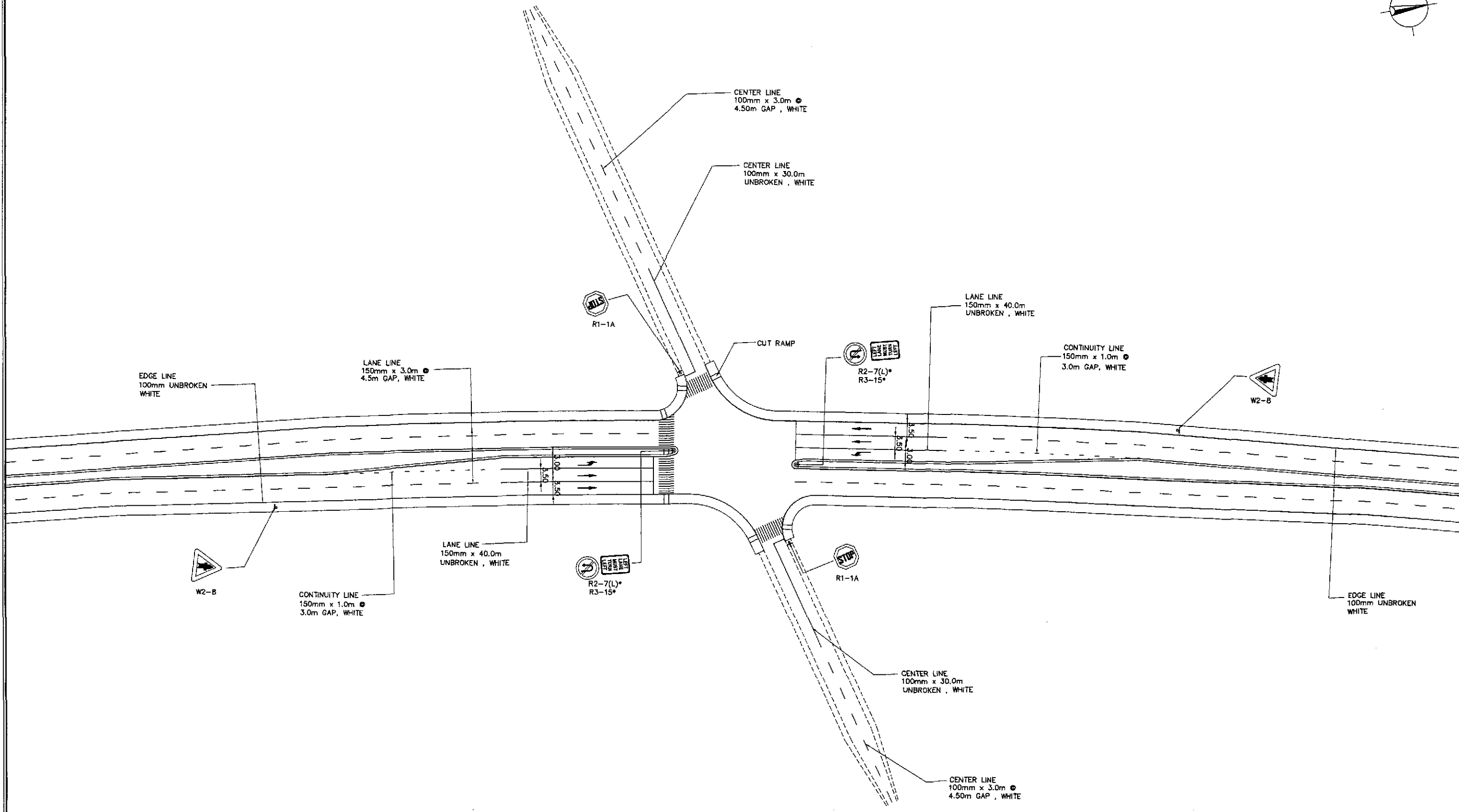
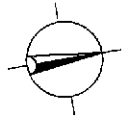
1:500

	DESIGNED	DATE	SIGNATURE		PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/21/02	5. [Signature]		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)			1:500	INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-4 (ULTIMATE STAGE)	RI-11	
	SUBMITTED	9/23/02	[Signature]		PLARIDEL BYPASS - CONTRACT PACKAGE I			FULL SIZE A1			
SUBMITTED BY: DANILLO C. TRAJANO, Project Director				REVIEWED BY: JOSEFINA M. ALAGAR, Chief, Highways Division			OFFICE OF THE SECRETARY: GILBERTO S. REYES, OIC, Director IV			OFFICE OF THE SECRETARY: MANUEL M. BONDAN, Undersecretary; SIMEON A. DATUMANONG, Secretary	



1
PAVING AND GRADING PLAN
INTERSECTION A-4 (STA. 37+233.648) - ULTIMATE STAGE
 RI-12 SCALE 1:500

		DATE	SIGNATURE	 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :			
	DESIGNED	9/16/02			PJHL - PMO Submitted By:	BUREAU OF DESIGN Reviewed By:	OFFICE OF THE SECRETARY Recommended By:	Approved By:	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	INTERSECTION DETAIL PAVING AND GRADING PLAN INTERSECTION A-4 (ULTIMATE STAGE)	RI-12
	CHECKED	9/16/02			DANLO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary	PLARIDEL BYPASS - CONTRACT PACKAGE I	FULL SIZE A1
SUBMITTED	9/23/02		TEAM LEADER								



**TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN
INTERSECTION A-4 , (STA. 37+233.648) ULTIMATE STAGE**

1
RI-13

SCALE

1:500

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

K KATAHIRA & ENGINEERS INTERNATIONAL
yeo YACHIYO ENGINEERING CO., LTD.

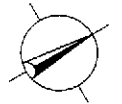
DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				
DESIGNED: 9/19/02	[Signature]	BUREAU OF DESIGN		OFFICE OF THE SECRETARY		
CHECKED: 9/21/02	[Signature]	Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:
SUBMITTED: 9/23/02	[Signature]	DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONGAN Undersecretary	SIMEON A. DATUMANONG Secretary

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(Plaridel, Cabanatuan and San Jose Bypasses)
PLARIDEL BYPASS - CONTRACT PACKAGE I

SCALE :
1:500
FULL SIZE A1

SHEET CONTENTS :
TRAFFIC SIGNS AND PAVEMENT
MARKINGS LAYOUT PLAN
INTERSECTION A-4 (ULTIMATE STAGE)

SHEET NO. :
RI-13



E 488200
N 1245100

E 488500
N 1245300

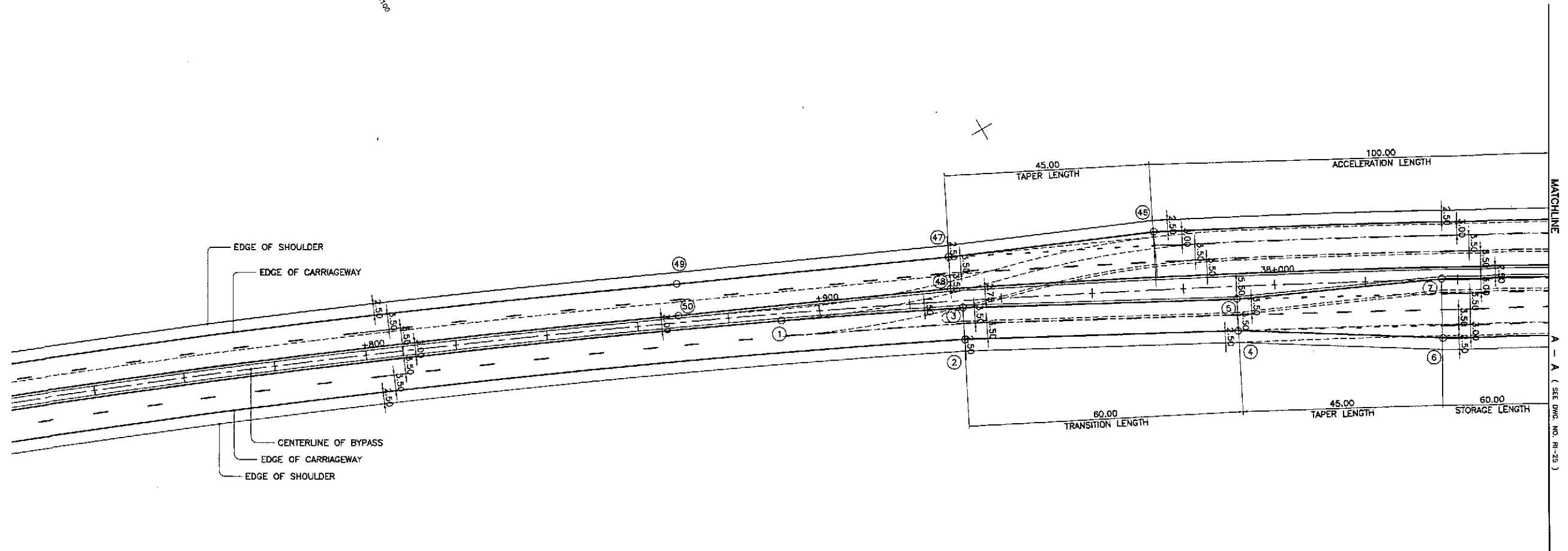


TABLE OF COORDINATES

CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1645140.929	488314.364	EDGE OF PAVEMENT TO MEET EXISTING
2	1645173.793	488338.081	EDGE OF PAVEMENT AT TRANSITION
3	1645176.898	488331.808	BEG. OF TRANSITION 1.50m FROM THE CENTERLINE
4	1645226.481	488366.351	BEG. OF TAPER, PAVEMENT 7.00m WIDE
5	1645229.735	488360.153	END OF TRANSITION 2.75m FROM THE CENTERLINE
6	1645264.534	488390.178	END OF TAPER, PAVEMENT WIDTH 13.00m
7	1645270.784	488378.779	END OF TAPER 0.25m FROM THE CENTERLINE
46	1645221.449	488338.363	BEG. OF TAPER, PAVEMENT WIDTH 10.00m
47	1645179.707	488320.647	EDGE OF 7.00m WIDE PAVEMENT
48	1645176.609	488328.924	END OF TAPER 2.75 FROM THE CENTERLINE
49	1645124.995	488295.830	END OF TRANSITION
50	1645121.855	488302.092	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE

GEOMETRIC DESIGN LAYOUT

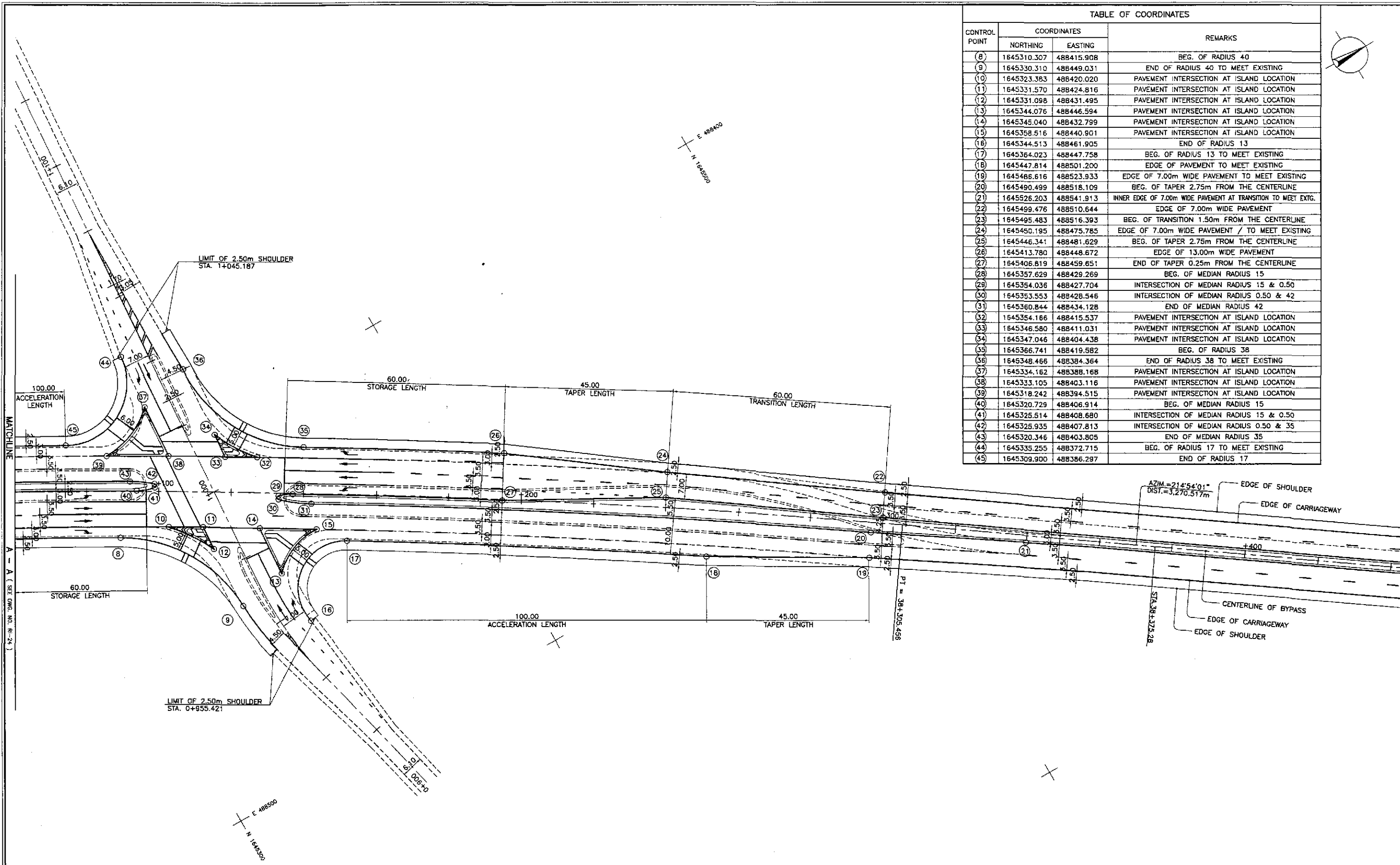
INTERSECTION A-5 (STA. 38+115.240) - ULTIMATE STAGE

1
RI-14

SCALE

1:500

		<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>				<p>PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)</p>		<p>SCALE : 1:500 FULL SIZE A1</p>	<p>SHEET CONTENTS : INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-5 (ULTIMATE STAGE) 1of 2</p>	<p>SHEET NO. : RI-14</p>
DESIGNED	DATE: 9/19/02	SIGNATURE: [Signature]	Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By: GILBERTO S. REYES OIC, Director IV	Recommended By: MANUEL M. BONGAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary			



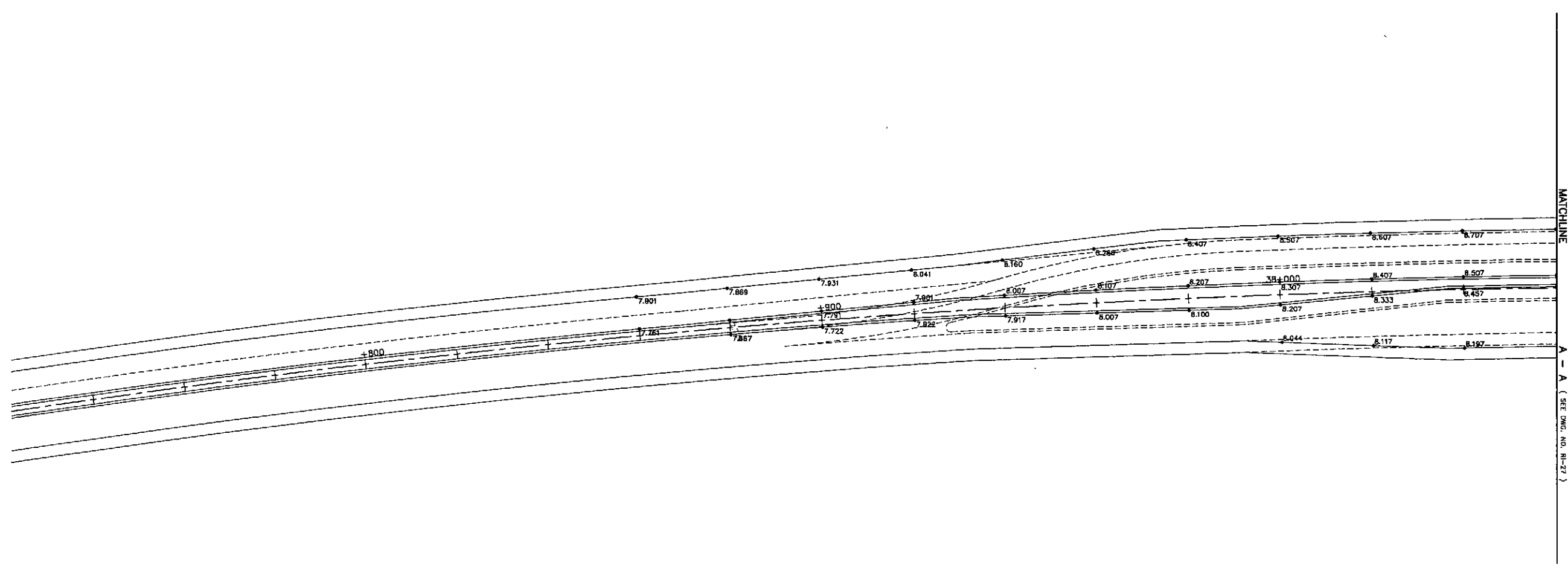
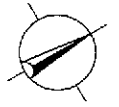
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
(8)	1645310.307	488415.908	BEG. OF RADIUS 40
(9)	1645330.310	488449.031	END OF RADIUS 40 TO MEET EXISTING
(10)	1645323.383	488420.020	PAVEMENT INTERSECTION AT ISLAND LOCATION
(11)	1645331.570	488424.816	PAVEMENT INTERSECTION AT ISLAND LOCATION
(12)	1645331.098	488431.495	PAVEMENT INTERSECTION AT ISLAND LOCATION
(13)	1645344.076	488446.594	PAVEMENT INTERSECTION AT ISLAND LOCATION
(14)	1645345.040	488432.799	PAVEMENT INTERSECTION AT ISLAND LOCATION
(15)	1645358.516	488440.901	PAVEMENT INTERSECTION AT ISLAND LOCATION
(16)	1645344.513	488461.905	END OF RADIUS 13
(17)	1645364.023	488447.758	BEG. OF RADIUS 13 TO MEET EXISTING
(18)	1645447.814	488501.200	EDGE OF PAVEMENT TO MEET EXISTING
(19)	1645486.616	488523.933	EDGE OF 7.00m WIDE PAVEMENT TO MEET EXISTING
(20)	1645490.499	488518.109	BEG. OF TAPER 2.75m FROM THE CENTERLINE
(21)	1645526.203	488541.913	INNER EDGE OF 7.00m WIDE PAVEMENT AT TRANSITION TO MEET EXTG.
(22)	1645499.476	488510.644	EDGE OF 7.00m WIDE PAVEMENT
(23)	1645495.483	488516.393	BEG. OF TRANSITION 1.50m FROM THE CENTERLINE
(24)	1645450.195	488475.785	EDGE OF 7.00m WIDE PAVEMENT / TO MEET EXISTING
(25)	1645446.341	488481.629	BEG. OF TAPER 2.75m FROM THE CENTERLINE
(26)	1645413.780	488448.672	EDGE OF 13.00m WIDE PAVEMENT
(27)	1645406.819	488459.651	END OF TAPER 0.25m FROM THE CENTERLINE
(28)	1645357.629	488429.269	BEG. OF MEDIAN RADIUS 15
(29)	1645354.036	488427.704	INTERSECTION OF MEDIAN RADIUS 15 & 0.50
(30)	1645353.553	488428.546	INTERSECTION OF MEDIAN RADIUS 0.50 & 42
(31)	1645360.844	488434.128	END OF MEDIAN RADIUS 42
(32)	1645354.166	488415.537	PAVEMENT INTERSECTION AT ISLAND LOCATION
(33)	1645346.580	488411.031	PAVEMENT INTERSECTION AT ISLAND LOCATION
(34)	1645347.046	488404.438	PAVEMENT INTERSECTION AT ISLAND LOCATION
(35)	1645366.741	488419.582	BEG. OF RADIUS 38
(36)	1645348.466	488384.364	END OF RADIUS 38 TO MEET EXISTING
(37)	1645334.162	488388.168	PAVEMENT INTERSECTION AT ISLAND LOCATION
(38)	1645333.105	488403.116	PAVEMENT INTERSECTION AT ISLAND LOCATION
(39)	1645318.242	488394.515	PAVEMENT INTERSECTION AT ISLAND LOCATION
(40)	1645320.729	488406.914	BEG. OF MEDIAN RADIUS 15
(41)	1645325.514	488408.680	INTERSECTION OF MEDIAN RADIUS 15 & 0.50
(42)	1645325.935	488407.813	INTERSECTION OF MEDIAN RADIUS 0.50 & 35
(43)	1645320.346	488403.805	END OF MEDIAN RADIUS 35
(44)	1645335.255	488372.715	BEG. OF RADIUS 17 TO MEET EXISTING
(45)	1645309.900	488386.297	END OF RADIUS 17

**GEOMETRIC DESIGN LAYOUT
INTERSECTION A-5 (STA. 38+115.240) - ULTIMATE STAGE**

1
RI-15

SCALE 1:500

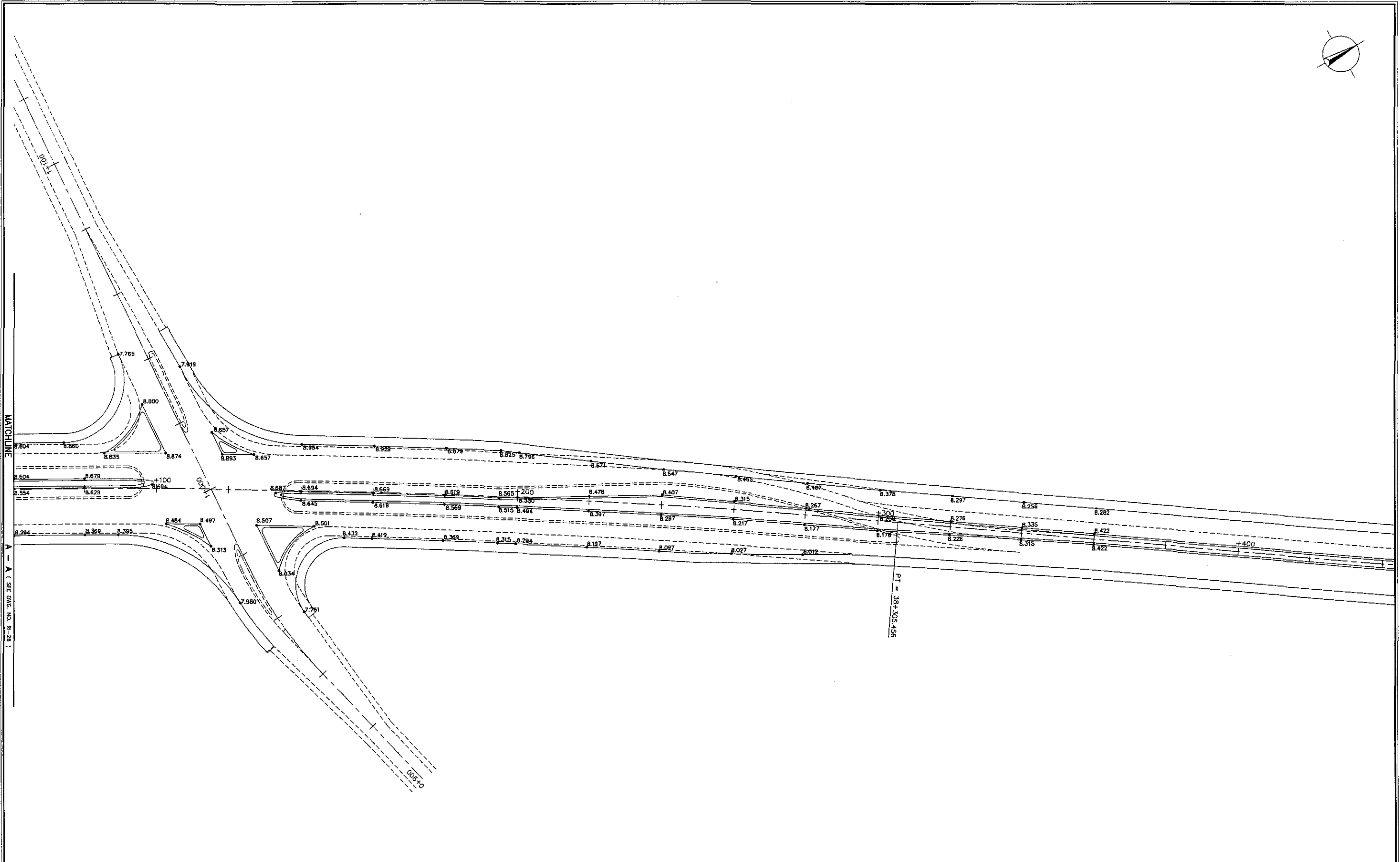
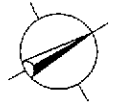
	DESIGNED	9/19/02	<i>[Signature]</i>		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:500 FULL SIZE A1	SHEET CONTENTS : INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-5 (ULTIMATE STAGE) 2 of 2	SHEET NO. : RI-15	
	CHECKED	9/21/02	<i>[Signature]</i>		Submitted By:	Reviewed By:	Recommended By:					Approved By:
	SUBMITTED	9/24/02	<i>[Signature]</i>		DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OC, Director IV					MANUEL M. BONOAN Undersecretary



1
RI-16

PAVING AND GRADING PLAN
 INTERSECTION A-5 (STA. 38+115.240) - ULTIMATE STAGE
 SCALE 1:500

	DESIGNED	DATE	SIGNATURE	 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/19/02	<i>[Signature]</i>		Submitted By:	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)			1:500	INTERSECTION DETAIL PAVING AND GRADING PLAN INTERSECTION A-5 (ULTIMATE STAGE) 1 of 2	RI-16
	SUBMITTED	9/20/02	<i>[Signature]</i>		Reviewed By:	PLARIDEL BYPASS - CONTRACT PACKAGE I			FULL SIZE A1		
					DANILLO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES O/C, Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary		

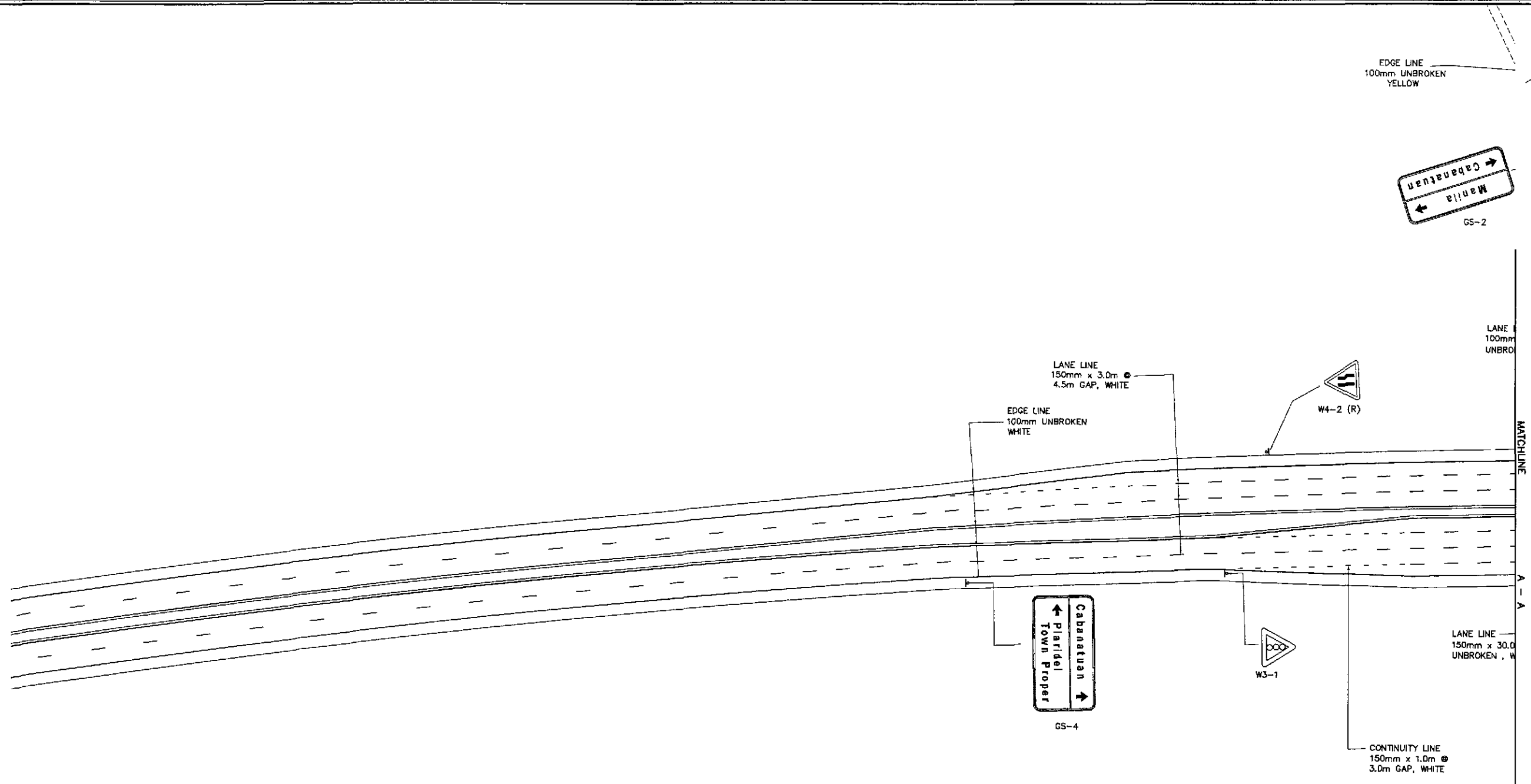


1
RI-17

SCALE

1:500

 JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS YEO YACHIYO ENGINEERING CO., LTD.	DATE	SIGNATURE	 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION :				SCALE :	SHEET CONTENTS :	SHEET NO. :
	DESIGNED	SIGNED		BUREAU OF DESIGN		OFFICE OF THE SECRETARY		1:500 FULL SIZE A1	INTERSECTION DETAIL PAVING AND GRADING PLAN INTERSECTION A-5 (ULTIMATE STAGE) 2 of 2	RI-17
	CHECKED	SIGNED		Submitted By:	Reviewed By:	Recommended By:	Approved By:			
SUBMITTED	SIGNED	DANILO C. TRILANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES O/C, Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary				



TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN
 INTERSECTION A-5, (STA. 38+115.240) ULTIMATE STAGE

1
 RI-18

SCALE 1:500

JICA
 JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL

YEO YACHIYO ENGINEERING CO., LTD.

	DATE	SIGNATURE
DESIGNED	9/12/02	S. LUNA
CHECKED	9/12/02	S. JOSE
SUBMITTED	9/12/02	M. BUSTOS

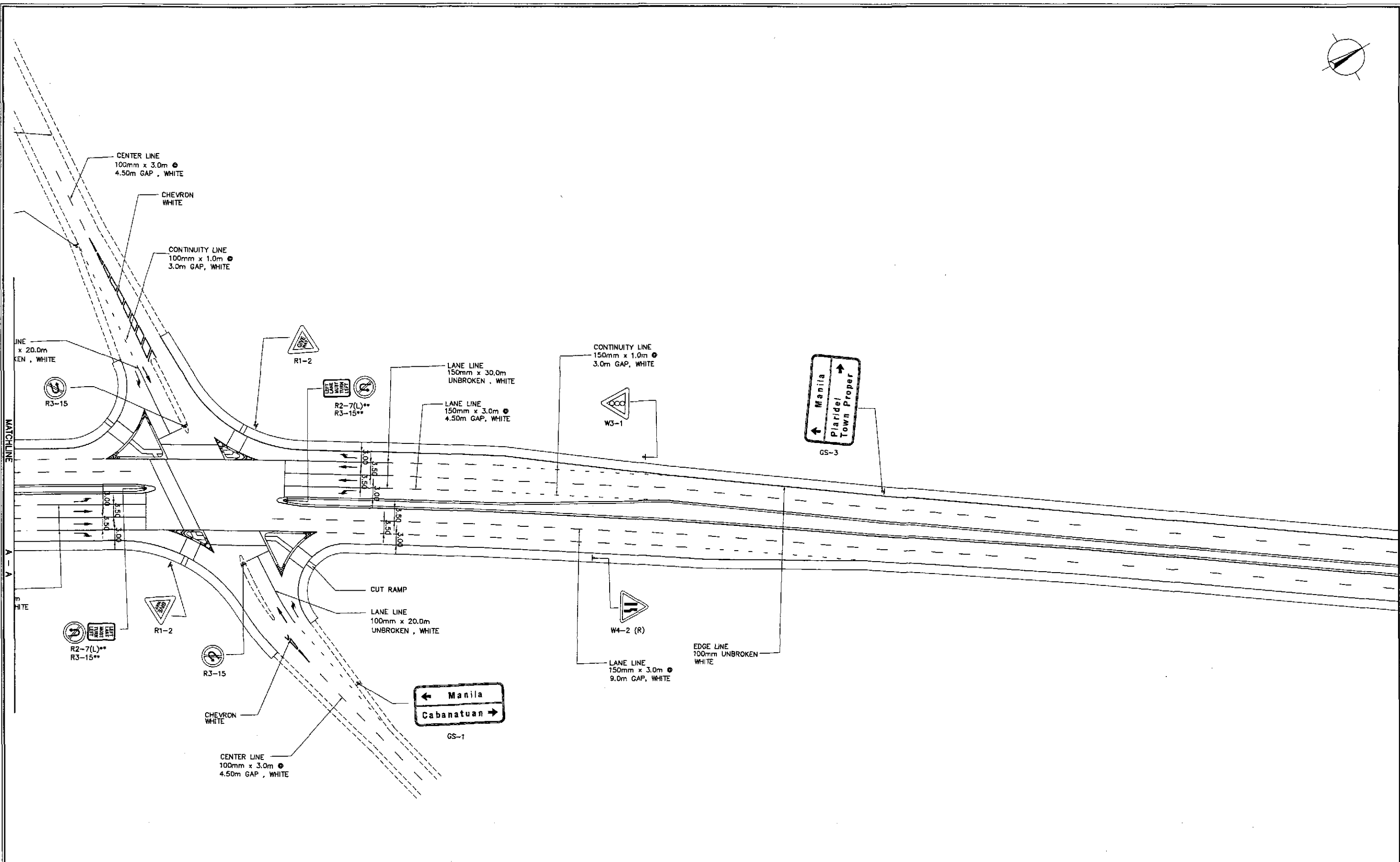
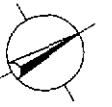
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS					
BUREAU OF DESIGN		OFFICE OF THE SECRETARY			
Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:	Approved By:
DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONDAN Undersecretary	(See cover sheet for Signature/Approval)	(See cover sheet for Signature/Approval)

PROJECT AND LOCATION :
 THE DETAILED DESIGN STUDY ON
 UPGRADING INTER-URBAN HIGHWAY SYSTEM
 ALONG THE PAN-PHILIPPINE HIGHWAY
 (Plaridel, Cabanatuan and San Jose Bypasses)
 PLARIDEL BYPASS - CONTRACT PACKAGE I

SCALE :
 1:500
 FULL SIZE A1

SHEET CONTENTS :
 TRAFFIC SIGNS AND PAVEMENT
 MARKINGS LAYOUT PLAN
 INTERSECTION A-5 (ULTIMATE STAGE)

SHEET NO. :
 RI-18



1
RI-19

SCALE 1:500

JICA
 JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL
YEO YACHIYO ENGINEERING CO., LTD.

DATE	SIGNATURE
DESIGNED 9/19/02	S. LUNA
CHECKED 9/21/02	S. ROSE
SUBMITTED 9/23/02	M. TRUJILLO

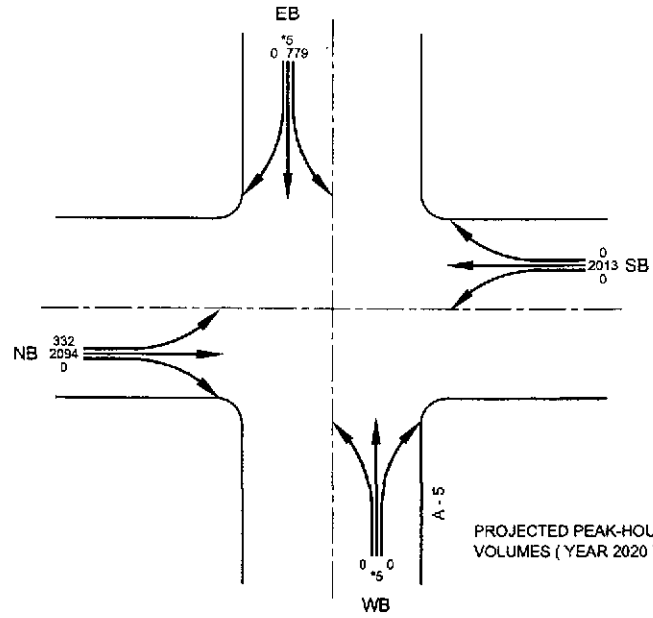
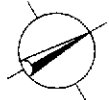
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				
BUREAU OF DESIGN		OFFICE OF THE SECRETARY		
Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:
DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary

PROJECT AND LOCATION :
 THE DETAILED DESIGN STUDY ON
 UPGRADING INTER-URBAN HIGHWAY SYSTEM
 ALONG THE PAN-PHILIPPINE HIGHWAY
 (Plaridel, Cabanatuan and San Jose Bypasses)
 PLARIDEL BYPASS - CONTRACT PACKAGE I

SCALE :
 1:500
 FULL SIZE A1

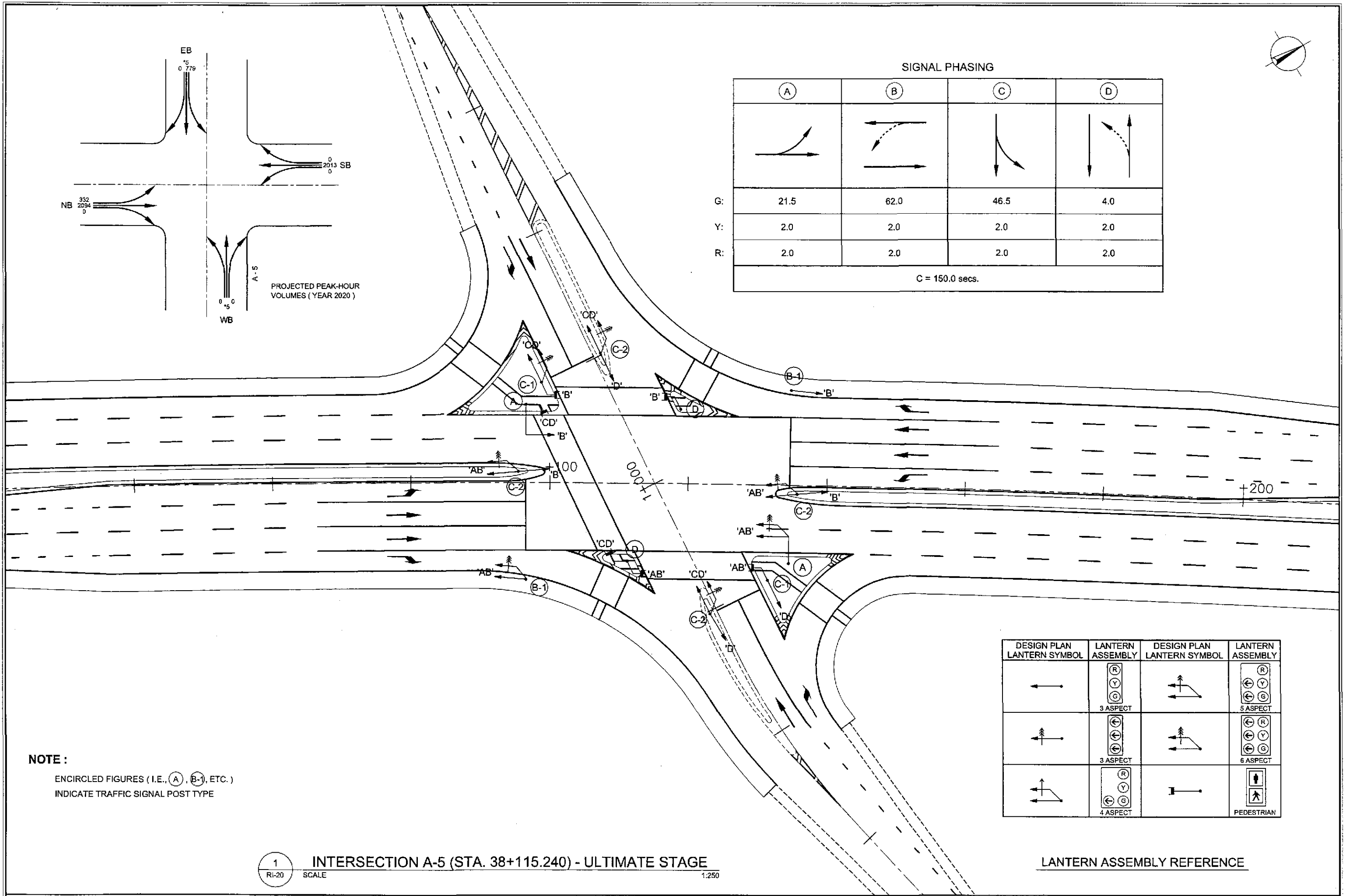
SHEET CONTENTS :
 TRAFFIC SIGNS AND PAVEMENT
 MARKINGS LAYOUT PLAN
 INTERSECTION A-5 (ULTIMATE STAGE)

SHEET NO. :
 RI-19



SIGNAL PHASING

	(A)	(B)	(C)	(D)
G:	21.5	62.0	46.5	4.0
Y:	2.0	2.0	2.0	2.0
R:	2.0	2.0	2.0	2.0
C = 150.0 secs.				



NOTE :
ENCIRCLED FIGURES (I.E., (A), (B-1), ETC.)
INDICATE TRAFFIC SIGNAL POST TYPE

DESIGN PLAN LANTERN SYMBOL	LANTERN ASSEMBLY	DESIGN PLAN LANTERN SYMBOL	LANTERN ASSEMBLY
	 3 ASPECT		 3 ASPECT
	 3 ASPECT		 6 ASPECT
	 4 ASPECT		 PEDESTRIAN

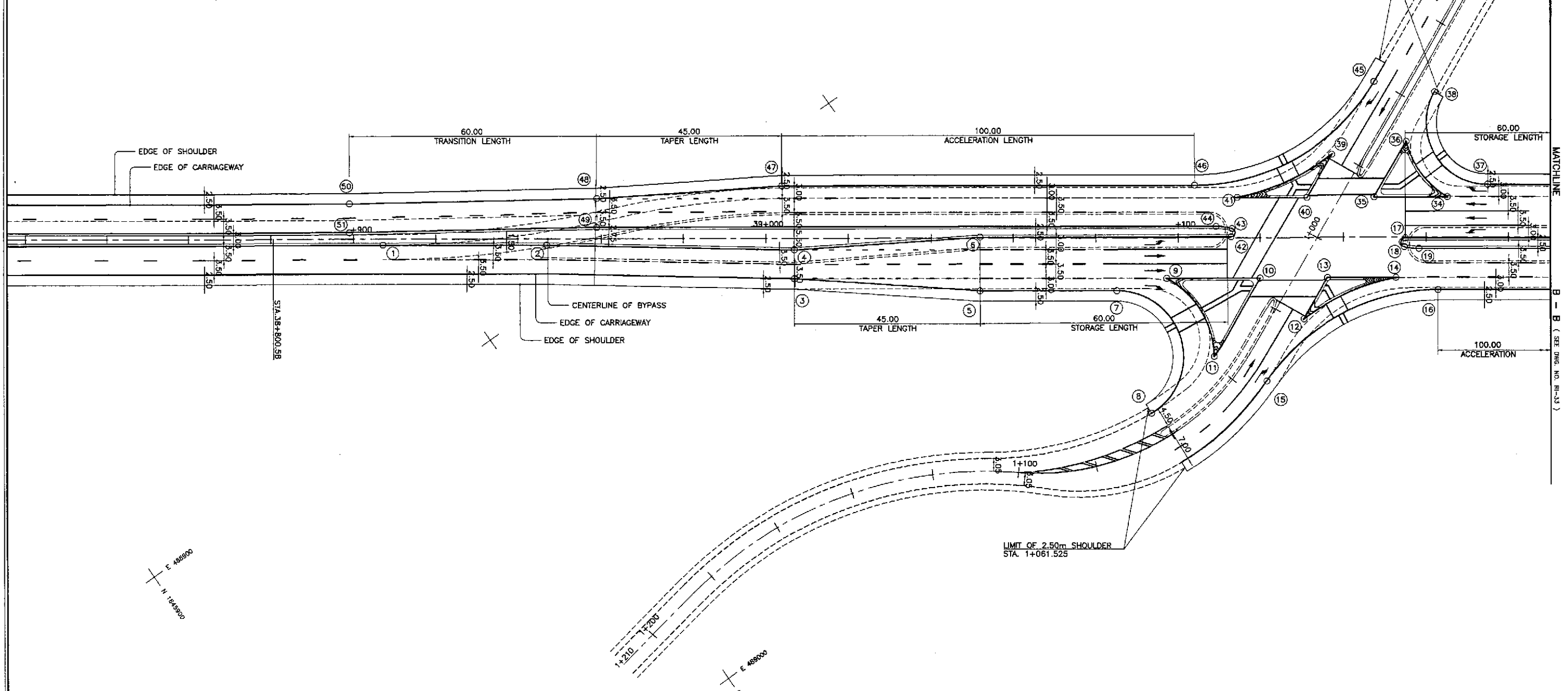
LANTERN ASSEMBLY REFERENCE

1 INTERSECTION A-5 (STA. 38+115.240) - ULTIMATE STAGE
RI-20 SCALE 1:250

	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/19/02	<i>[Signature]</i>		BUREAU OF DESIGN	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)			1:250	TRAFFIC SIGNAL LIGHT LAYOUT INTERSECTION A-5 (ULTIMATE STAGE)	RI-20
	SUBMITTED	9/21/02	<i>[Signature]</i>		Submitted By:	PLARIDEL BYPASS - CONTRACT PACKAGE I			FULL SIZE A1		
		9/23/02	<i>[Signature]</i>		Reviewed By:	OFFICE OF THE SECRETARY					
			Project Director	Recommended By: (See cover sheet for Signature/Approval) Recommended By: (See cover sheet for Signature/Approval) Recommended By: (See cover sheet for Signature/Approval)							

TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1645991.546	488868.104	EDGE OF PAVEMENT TO MEET EXISTING
2	1646024.352	488888.990	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE
3	1646068.867	488930.106	BEG. OF TAPER, PAVEMENT 7.00m WIDE / TO MEET EXISTING
4	1646072.846	488924.344	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
5	1646104.031	488958.292	END OF TAPER, PAVEMENT 13.00 m WIDE
6	1646111.469	488947.631	EDGE OF PAVEMENT 0.25m FROM THE CENTERLINE
7	1646131.282	488977.303	BEG. OF RADIUS 16
8	1646121.064	489006.390	END OF RADIUS 16 TO MEET EXISTING/END OF CONC. SHOULDER
9	1646142.860	488981.722	PAVEMENT INTERSECTION AT ISLAND LOCATION
10	1646161.514	488994.735	PAVEMENT INTERSECTION AT ISLAND LOCATION
11	1646141.433	489003.758	PAVEMENT INTERSECTION AT ISLAND LOCATION
12	1646164.471	489008.810	PAVEMENT INTERSECTION AT ISLAND LOCATION
13	1646174.772	489003.965	PAVEMENT INTERSECTION AT ISLAND LOCATION
14	1646188.253	489013.389	PAVEMENT INTERSECTION AT ISLAND LOCATION
15	1646148.538	489016.079	BEG. OF RADIUS 50 TO MEET EXISTING
16	1646195.020	489021.768	END OF RADIUS 50
17	1646195.575	489008.913	BEG. OF MEDIAN NOSING W/ RADIUS 1.05
18	1646194.185	489008.468	INTERSECTION OF MEDIAN RADIUS 1.05 & 15.25
19	1646196.889	489010.879	END OF MEDIAN RADIUS 15.25

TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
34	1646209.845	489004.676	PAVEMENT INTERSECTION AT ISLAND LOCATION
35	1646195.163	488994.433	PAVEMENT INTERSECTION AT ISLAND LOCATION
36	1646209.173	488987.870	PAVEMENT INTERSECTION AT ISLAND LOCATION
37	1646219.608	489007.828	BEG. OF RADIUS 15
38	1646221.827	488981.943	END OF RADIUS 15 TO MEET EXISTING/END OF CONC. SHOULDER
39	1646192.713	488980.121	PAVEMENT INTERSECTION AT ISLAND LOCATION
40	1646181.904	488985.184	PAVEMENT INTERSECTION AT ISLAND LOCATION
41	1646168.133	488975.577	PAVEMENT INTERSECTION AT ISLAND LOCATION
42	1646161.426	488982.481	BEG. OF MEDIAN RADIUS 1.00
43	1646162.765	488981.020	INTERSECTION OF MEDIAN RADIUS 1.00 & 15.25
44	1646159.787	488978.290	END OF MEDIAN RADIUS 15.25
45	1646211.183	488971.469	BEG. OF RADIUS 50 TO MEET EXISTING
46	1646161.247	488967.115	END OF RADIUS 50
47	1646079.232	488909.901	BEG. OF TAPER, PAVEMENT 13.00m WIDE
48	1646040.609	488886.614	END OF TAPER, PAVEMENT 7.00m WIDE
49	1646036.604	488892.355	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
50	1645990.686	488953.309	END OF TRANSITION, PAVEMENT 7.00m WIDE
51	1645986.680	488859.052	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE



GEOMETRIC DESIGN LAYOUT
INTERSECTION A-7 (STA. 39+133.681) - ULTIMATE STAGE
 SCALE 1:500

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:500 FULL SIZE A1	SHEET CONTENTS : INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-7&7a (ULTIMATE STAGE) 1 of 2	SHEET NO. : RI-21
	CHECKED				DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS							
	SUBMITTED				BUREAU OF DESIGN							
			Submitted By:	Reviewed By:	Recommended By:	Approved By:						
			DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary					

E 489300 N 124800

E 489100 N 124600

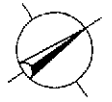
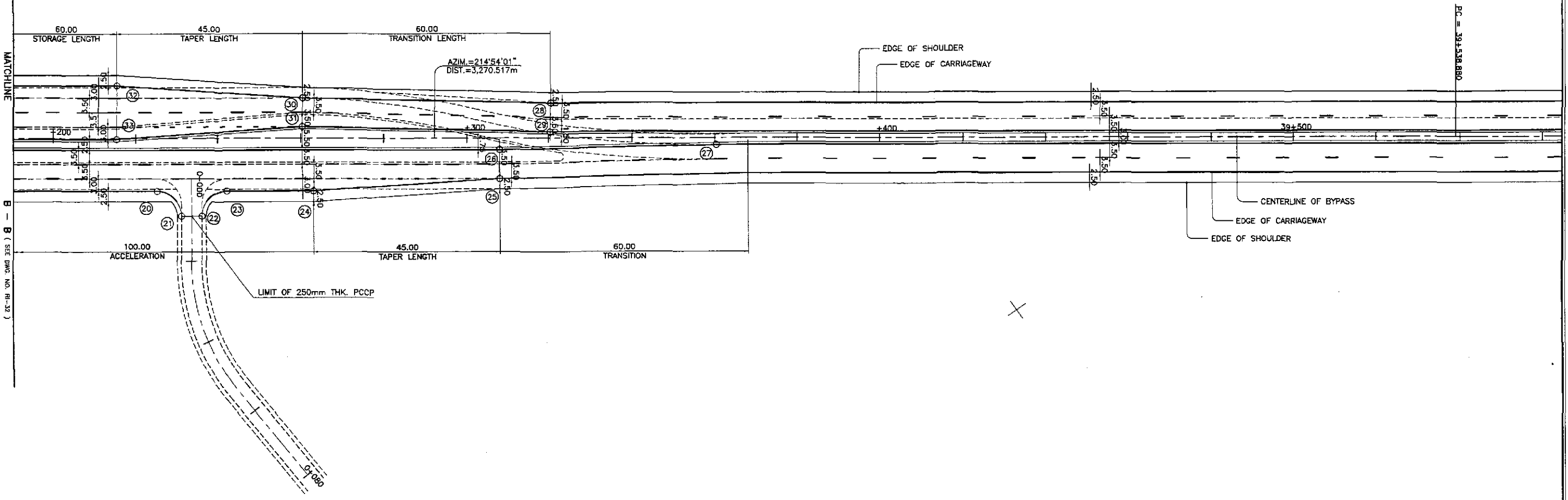


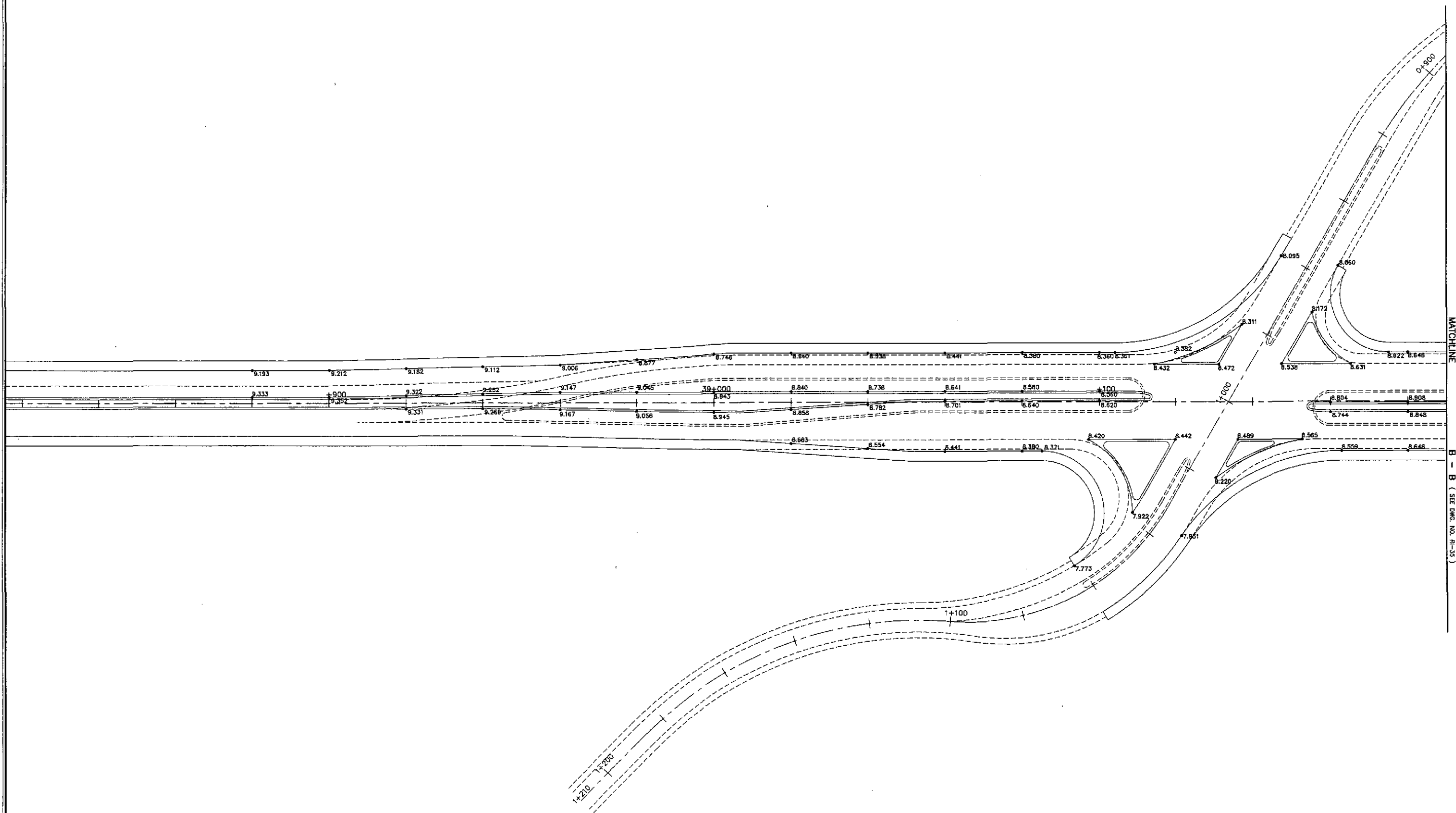
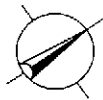
TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
(20)	1646246.087	489057.393	BEG. OF RADIUS 6 OF ACCESS ROAD
(21)	1646247.575	489065.746	END OF RADIUS 6 OF ACCESS ROAD
(22)	1646251.676	489068.807	BEG. OF RADIUS 6 OF ACCESS ROAD
(23)	1646260.030	489067.119	END OF RADIUS 6 OF ACCESS ROAD
(24)	1646277.174	489079.079	BEG. OF TAPER, PAVEMENT 10.00m WIDE
(25)	1646315.796	489102.367	END OF TAPER, PAVEMENT 7.00m WIDE TO MEET EXISTING
(26)	1646319.802	489096.624	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
(27)	1646363.327	489125.659	EDGE OF PAVEMENT TO MEET EXISTING
(28)	1646336.394	489094.482	EDGE OF PAVEMENT 7.00m WIDE
(29)	1646332.329	489100.181	EDGE OF PAVEMENT 1.50m FROM THE CENTERLINE
(30)	1646287.841	489059.085	BEG. OF TAPER, PAVEMENT 7.00m WIDE
(31)	1646283.835	489064.827	EDGE OF PAVEMENT 2.75m FROM THE CENTERLINE
(32)	1646252.650	489030.879	END OF TAPER, PAVEMENT 13.00m WIDE
(33)	1646245.212	489041.541	EDGE OF PAVEMENT 0.25m FROM THE CENTERLINE



1
RI-22

GEOMETRIC DESIGN LAYOUT
INTERSECTION A-7a (STA. 39+233.681) - ULTIMATE STAGE
SCALE 1:500

	DESIGNED	9/19/02	<i>[Signature]</i>		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/24/02	<i>[Signature]</i>		Submitted By:	Reviewed By:	Recommended By:	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	1:500	INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-7&7a (ULTIMATE STAGE) 2 of 2	RI-22
	SUBMITTED	9/25/02	<i>[Signature]</i>		DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV				



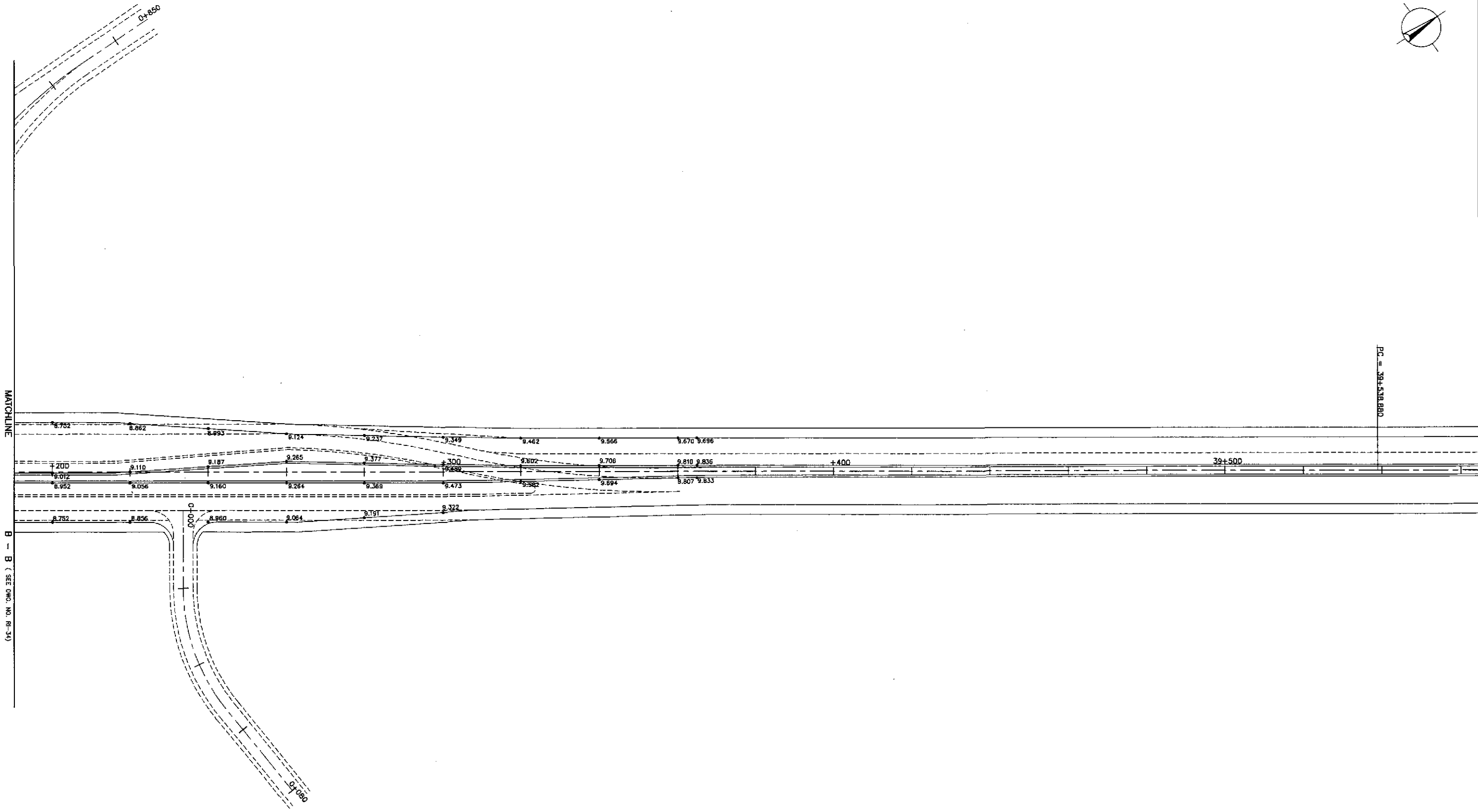
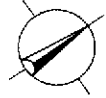
1
RI-23

PAVING AND GRADING PLAN
INTERSECTION A-7 (STA. 39+133.681) - ULTIMATE STAGE

SCALE

1:500

	DESIGNED	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/14/02	<i>[Signature]</i>	BUREAU OF DESIGN			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	1:500	INTERSECTION DETAIL PAVING AND GRADING PLAN INTERSECTION A-7 & 7a (ULTIMATE STAGE) Sheet 1 of 2	RI-23
	SUBMITTED	9/25/02	<i>[Signature]</i>	Submitted By:	Reviewed By:	Recommended By:				
				DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary		FULL SIZE A1

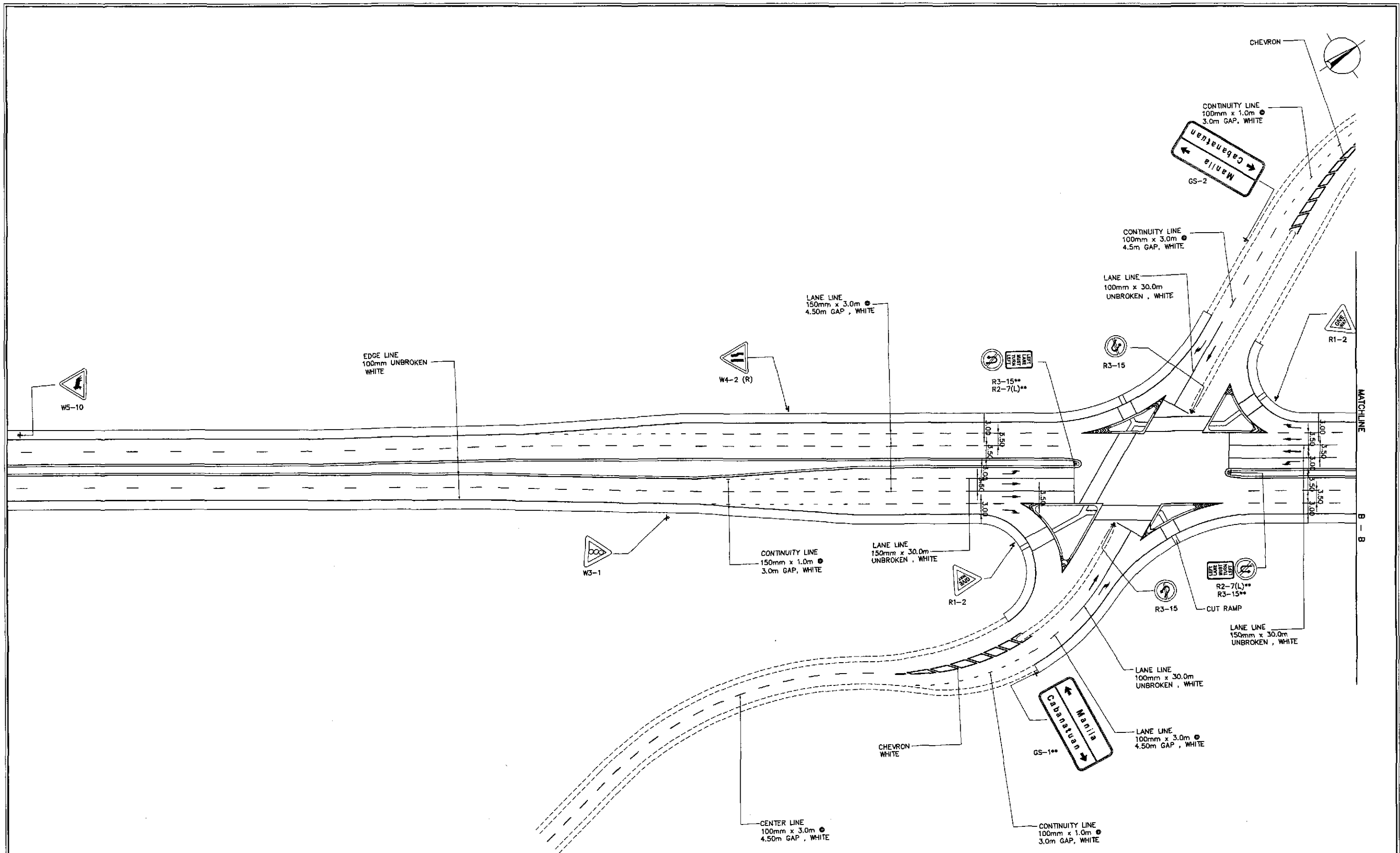


MATCHLINE
B - B (SEE OMD NO. RI-34)

PC = 39+518.880

1
 PAVING AND GRADING PLAN
 INTERSECTION A-7a (STA. 39+133.681) - ULTIMATE STAGE
 RI-24 SCALE 1:500

		DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	DESIGNED	9/14/02	<i>[Signature]</i>		BUREAU OF DESIGN				THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	INTERSECTION DETAIL PAVING AND GRADING PLAN INTERSECTION A-7 & 7a (ULTIMATE STAGE) Sheet 2 of 2	RI-24
	CHECKED	9/21/02	<i>[Signature]</i>		Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:	FULL SIZE A1		
SUBMITTED	9/25/02	<i>[Signature]</i>	DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary	PLARIDEL BYPASS - CONTRACT PACKAGE I				

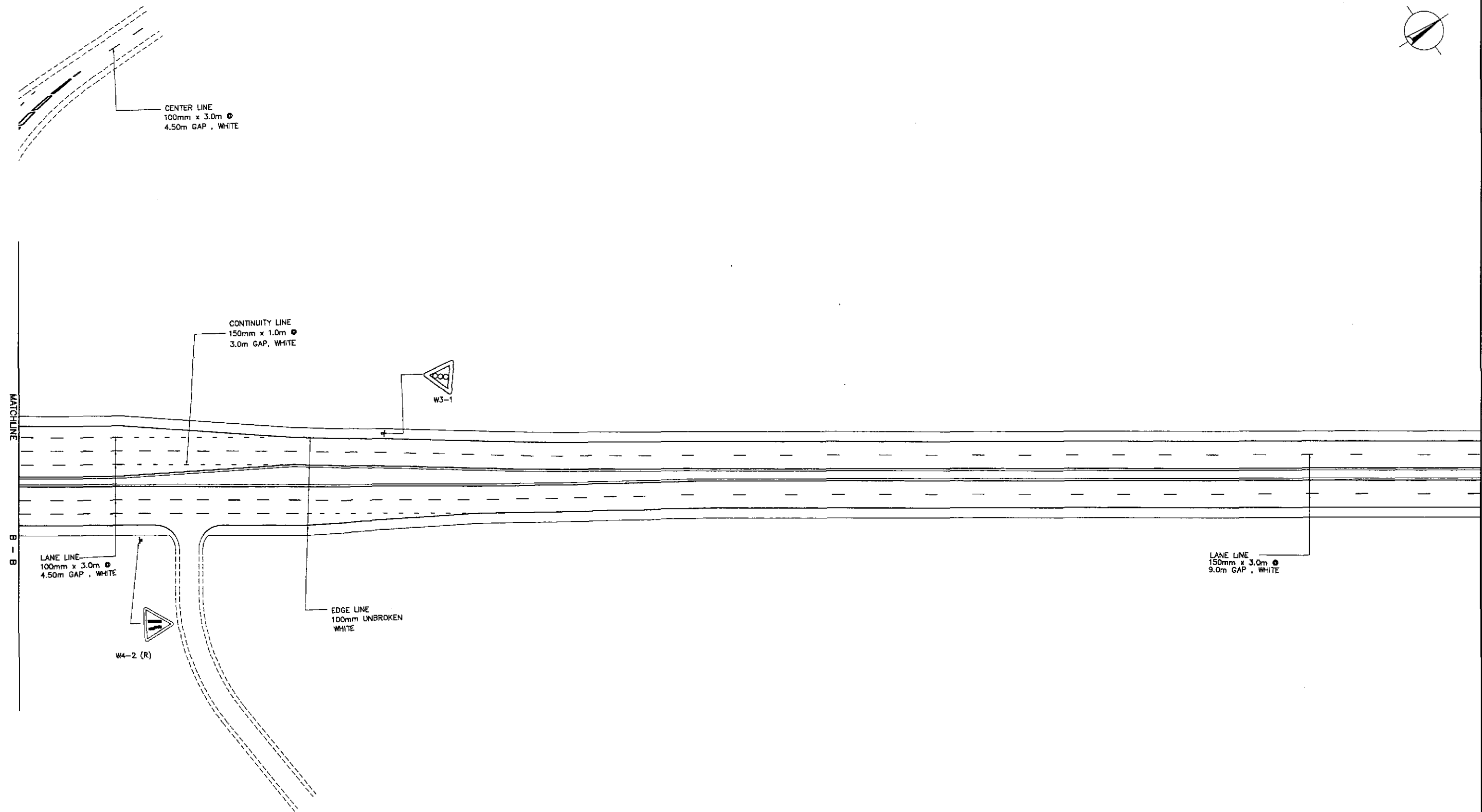
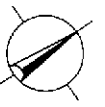


TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN
 INTERSECTION A-7, (STA. 39+133.681) ULTIMATE STAGE

1
 RI-25

SCALE 1:500

	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :			
	CHECKED	9/12/02	S. LUNA		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)			1:500	TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN INTERSECTION A-7 (ULTIMATE STAGE)	RI-25			
	SUBMITTED	9/23/02	M. S. ROSA		PLARIDEL BYPASS - CONTRACT PACKAGE I			FULL SIZE A1					
Submitted By: DANILO C. TRAJANO, Project Director				Reviewed By: JOSEFINA M. ALAGAR, Chief, Highways Division			Recommended By: GILBERTO S. REYES, OIC, Director IV			Recommended By: MANUEL M. BONDAN, Undersecretary		Approved By: SIMEON A. DATUMANONG, Secretary	



TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN
 INTERSECTION A-7a, (STA. 39+233.681) ULTIMATE STAGE

1
 RI-26

SCALE

1:500

JICA
 JAPAN INTERNATIONAL COOPERATION AGENCY

KEI KATAHIRA & ENGINEERS INTERNATIONAL

YEO YACHIYO ENGINEERING CO., LTD.

	DATE	SIGNATURE
DESIGNED	9/19/02	[Signature]
CHECKED	9/19/02	[Signature]
SUBMITTED	9/19/02	[Signature]

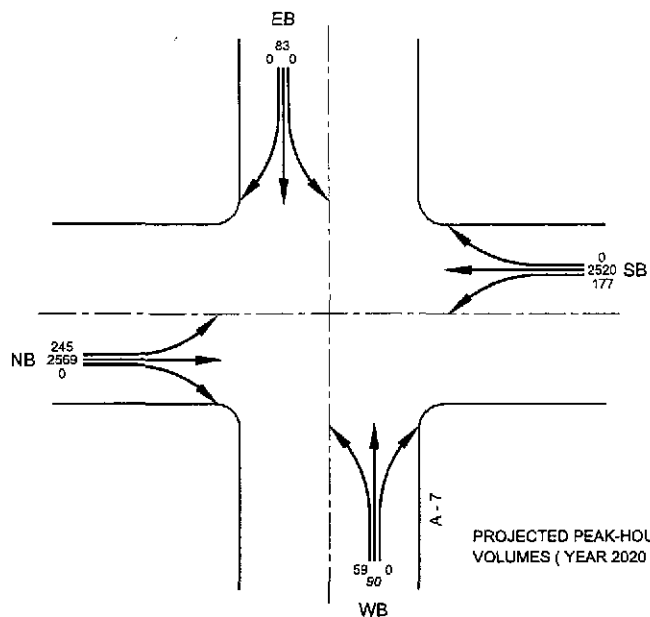
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS					
BUREAU OF DESIGN		OFFICE OF THE SECRETARY			
Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:	Approved By:
DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES Dir., Director IV	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary	

PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	1:500 FULL SIZE A1	TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN INTERSECTION A-7a (ULTIMATE STAGE)	RI-26



DESIGN PLAN LANTERN SYMBOL	LANTERN ASSEMBLY	DESIGN PLAN LANTERN SYMBOL	LANTERN ASSEMBLY

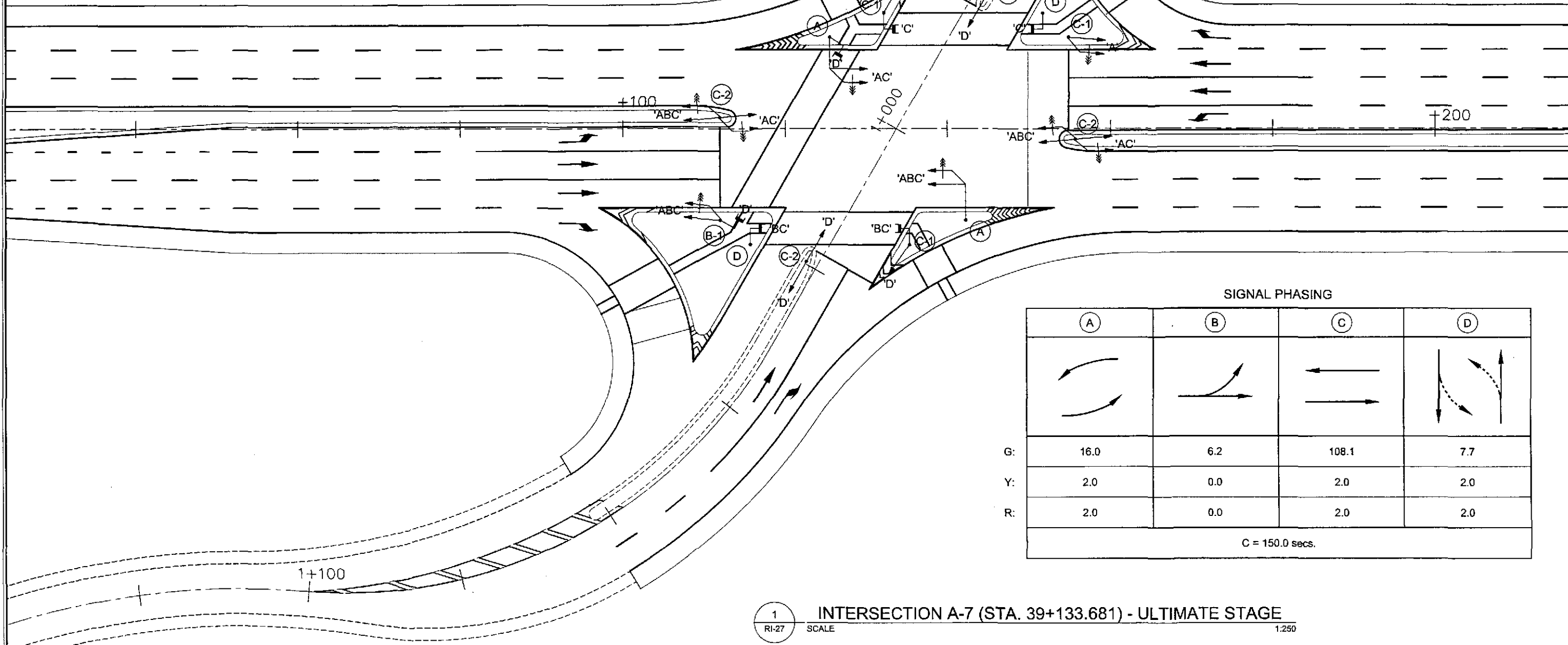
LANTERN ASSEMBLY REFERENCE



PROJECTED PEAK-HOUR VOLUMES (YEAR 2020)

NOTE :

ENCIRCLED FIGURES (I.E., (A), (B-1), ETC.) INDICATE TRAFFIC SIGNAL POST TYPE



SIGNAL PHASING

	(A)	(B)	(C)	(D)
G:	16.0	6.2	108.1	7.7
Y:	2.0	0.0	2.0	2.0
R:	2.0	0.0	2.0	2.0
C = 150.0 secs.				

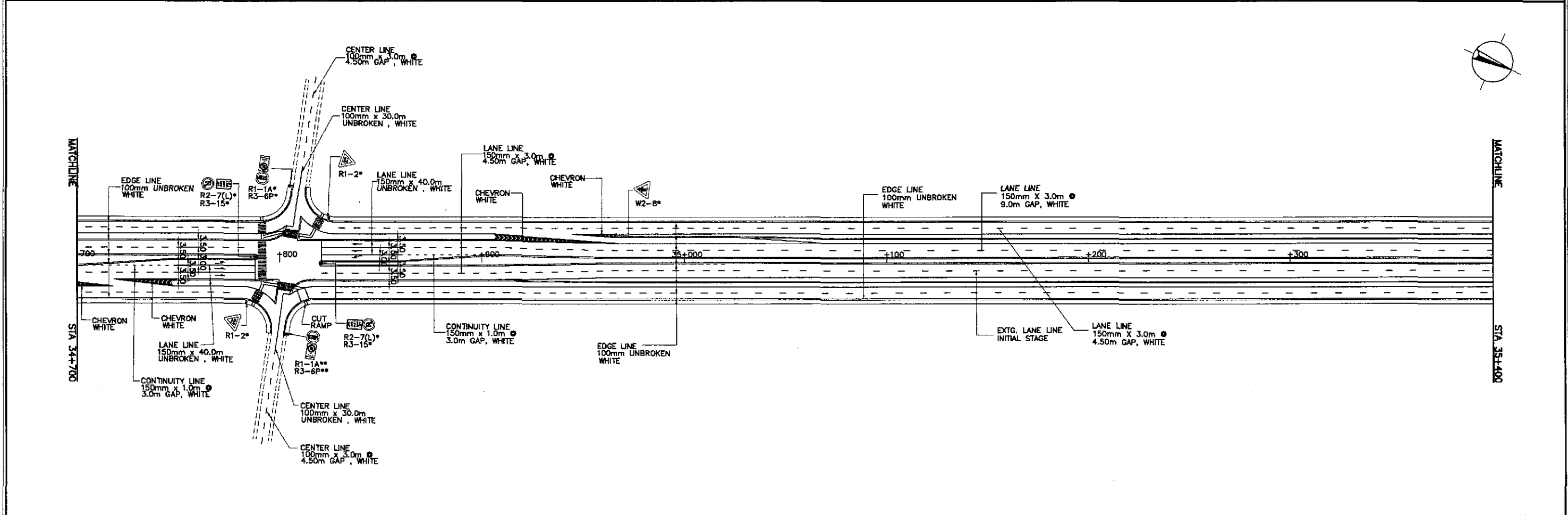
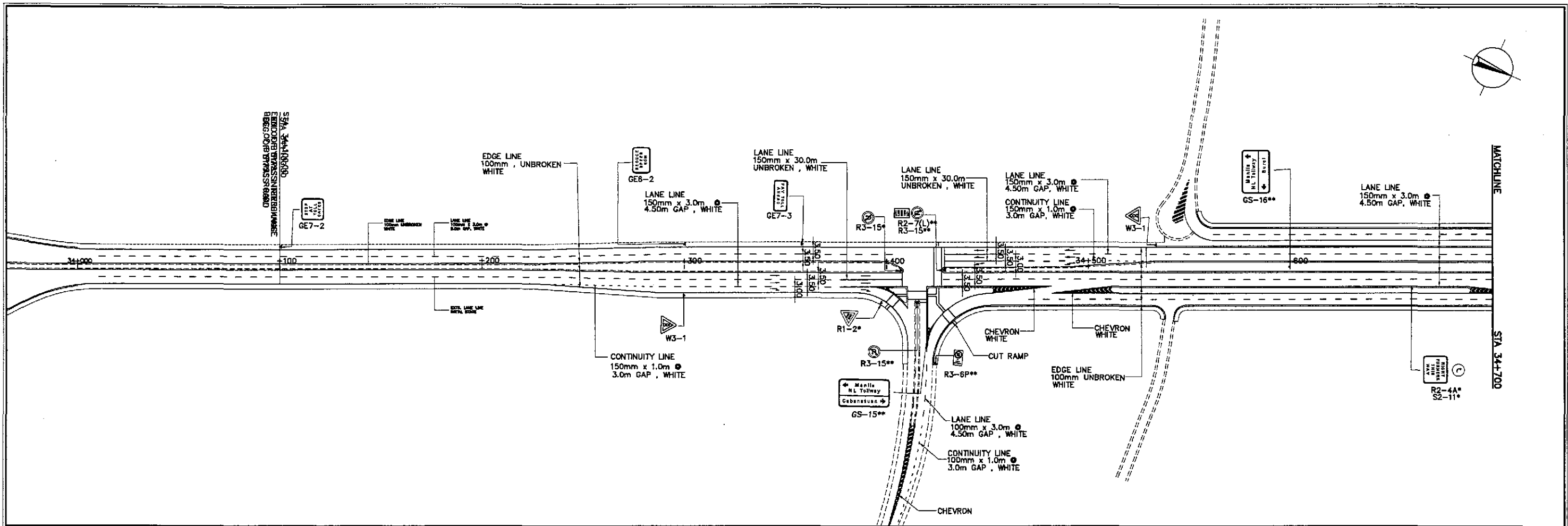
1
RI-27

INTERSECTION A-7 (STA. 39+133.681) - ULTIMATE STAGE

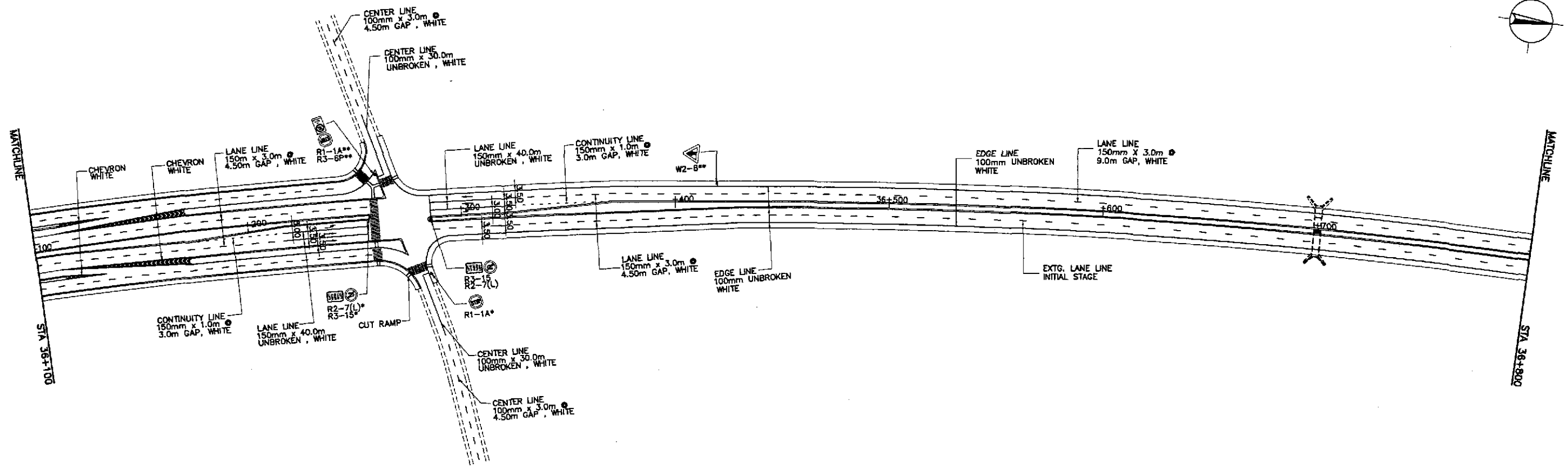
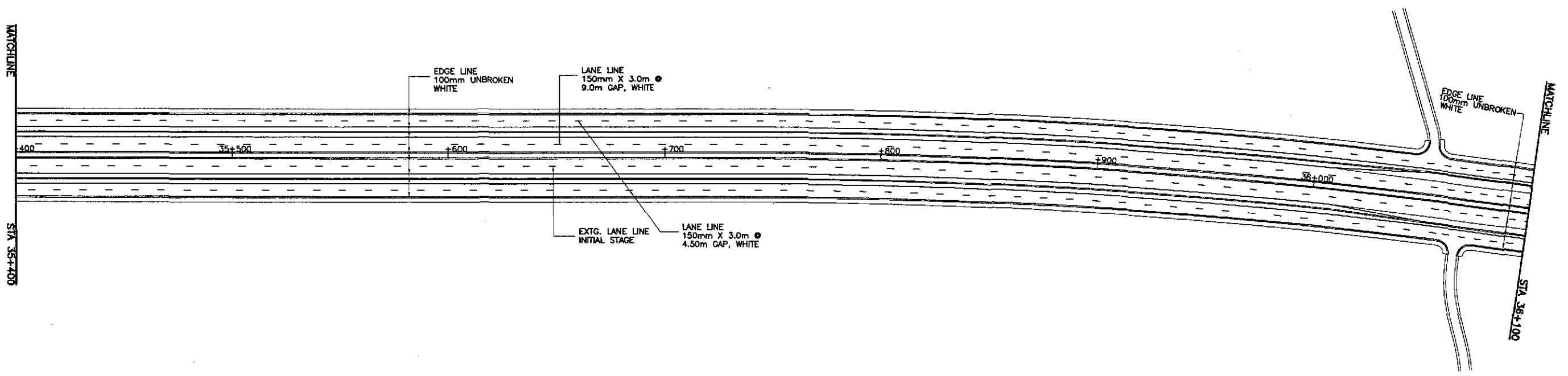
SCALE

1:250

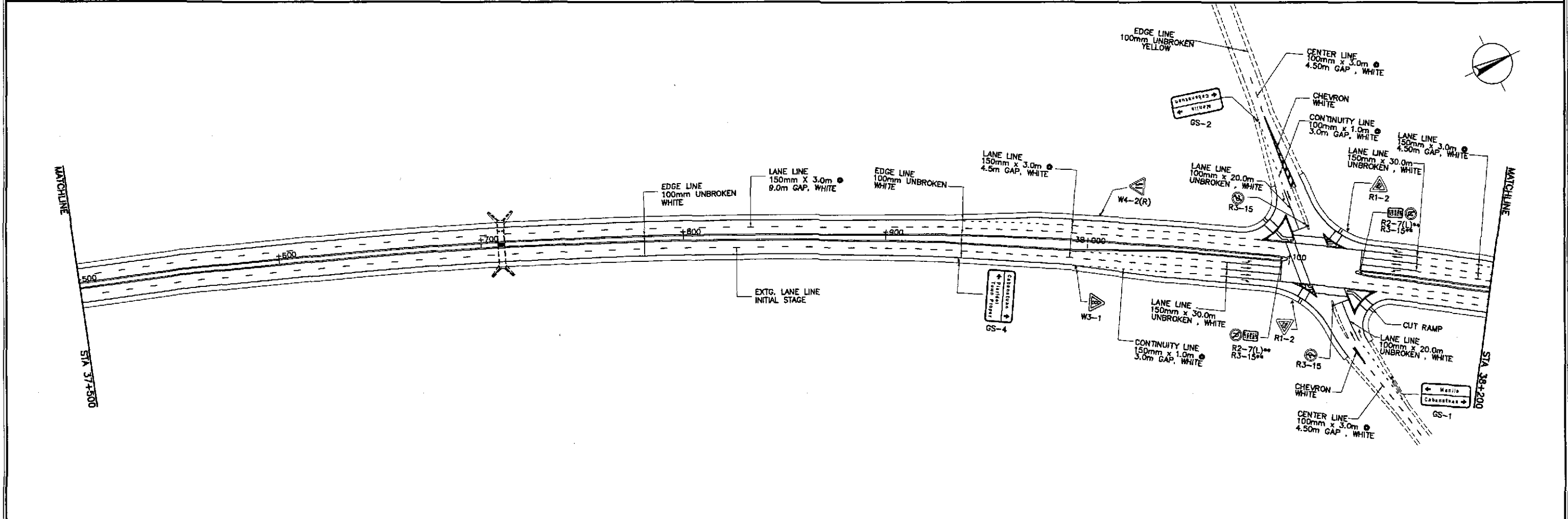
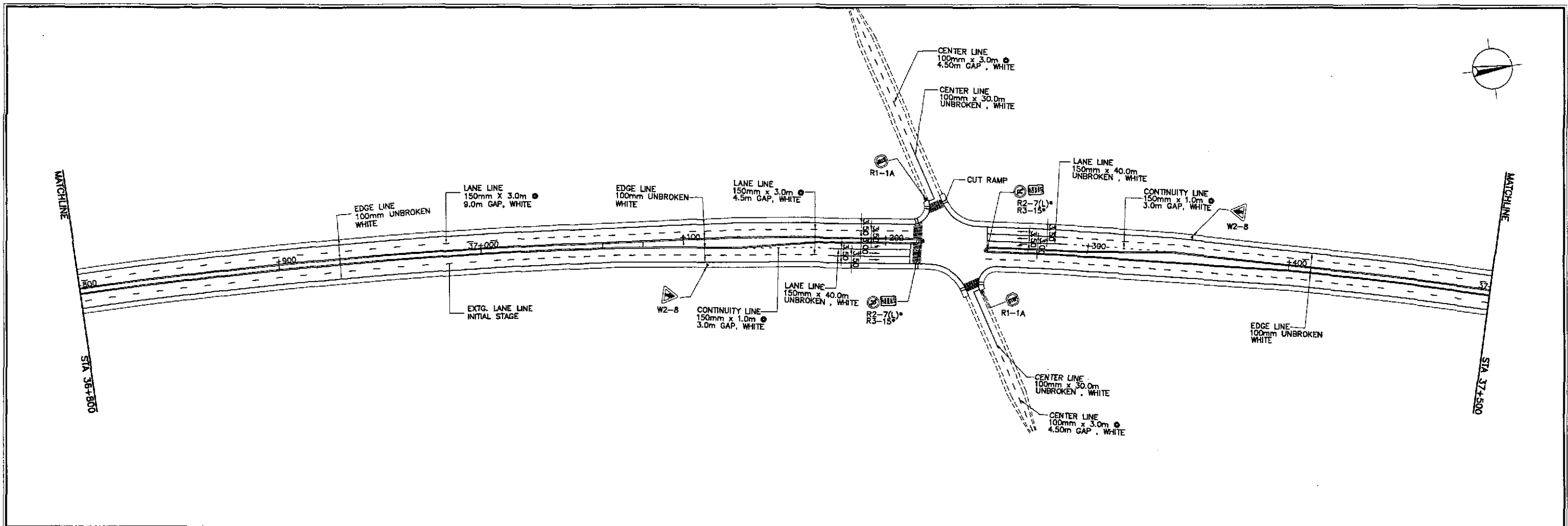
	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:250 FULL SIZE A1	SHEET CONTENTS : TRAFFIC SIGNAL LIGHT LAYOUT INTERSECTION A-7 (ULTIMATE STAGE)	SHEET NO. : RI-27
	CHECKED	9/19/02	S. ROSE					
SUBMITTED	9/23/02	M. ROSA	TEAM LEADER					



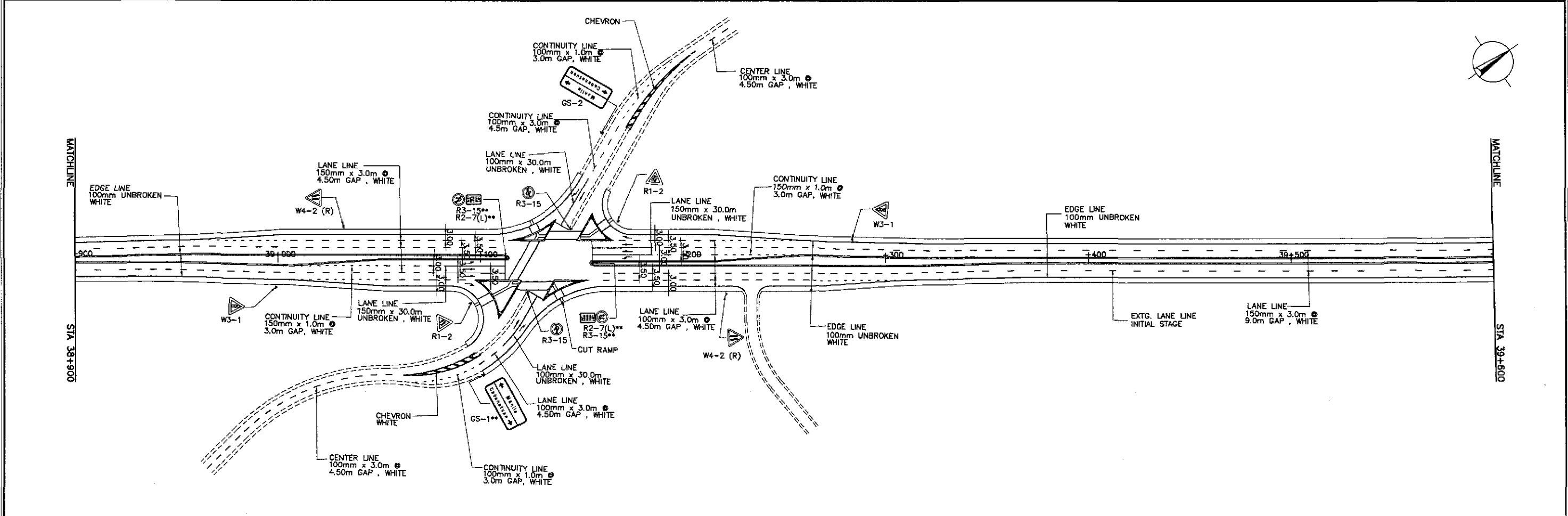
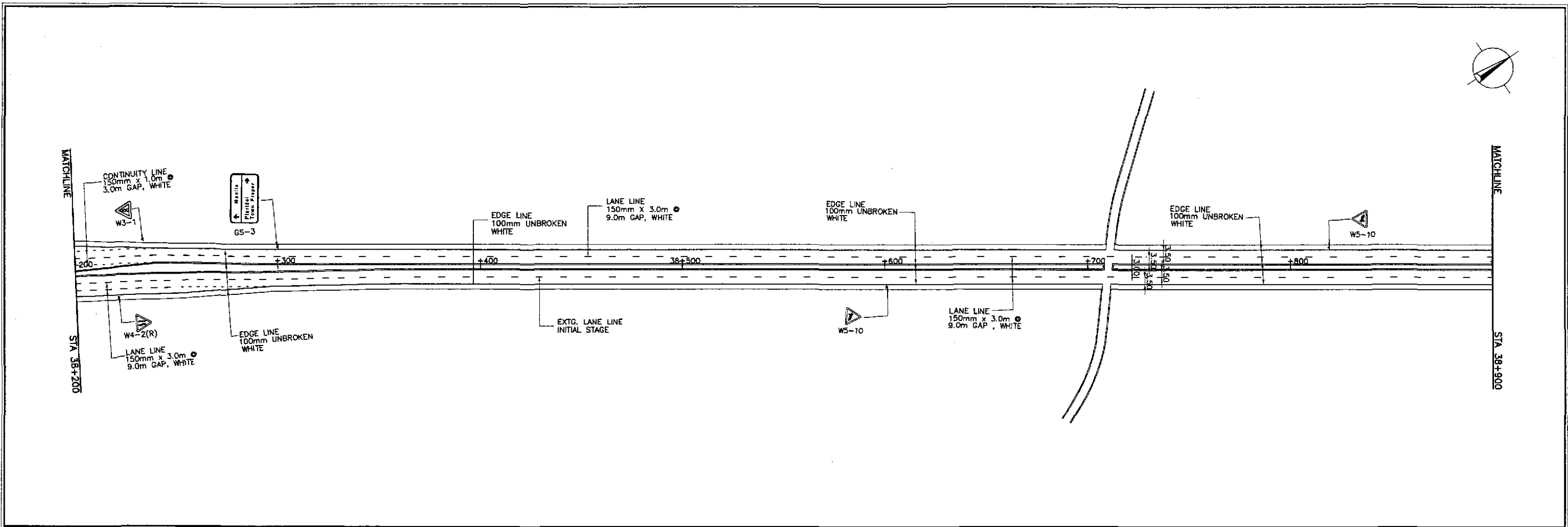
	DESIGNED	9/19/02	S. LUNA		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:1000 FULL SIZE A1	SHEET CONTENTS : TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 34+000 - STA. 35+400	SHEET NO. : RM-01	
	CHECKED	9/21/02	S. SOSE		Submitted By:	Reviewed By:					Recommended By:
	SUBMITTED	9/23/02	M. KINCHI		DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division					GILBERTO S. REYES OIC, Director IV



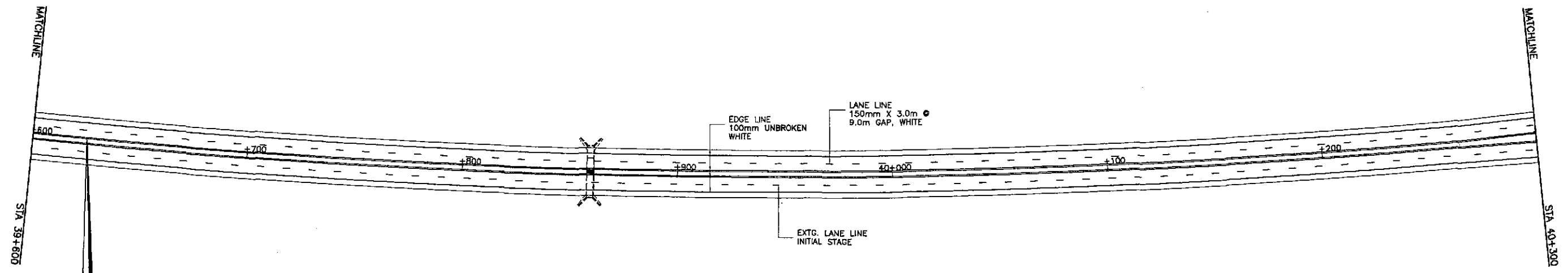
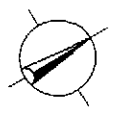
	DESIGNED	9/19/02		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:1000 FULL SIZE A1	SHEET CONTENTS : TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 35+400 - STA. 36+800	SHEET NO. : RM-02
	CHECKED	9/11/02		PUHL - PMO Submitted By:	BUREAU OF DESIGN Reviewed By:	OFFICE OF THE SECRETARY Recommended By:				
	SUBMITTED	9/23/02		DANILLO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV				
				MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary					



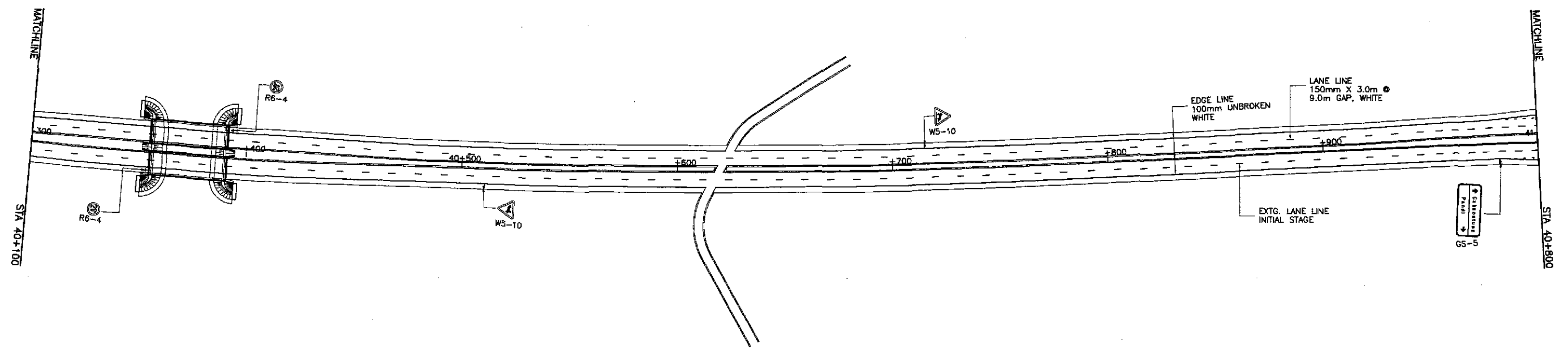
 JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL YACHIYO ENGINEERING CO., LTD.	DESIGNED: 9/19/02 CHECKED: 9/21/02 SUBMITTED: 9/25/02	DATE: 9/19/02 SIGNATURE: [Signature] S. LUNA S. ROSE M. KUSUMI TEAM LEADER	 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	P.W.H. - P.M.O. Submitted By: DANILLO C. TRAJANO Project Director	BUREAU OF DESIGN Reviewed By: JOSEFINA M. ALAGAR Chief, Highways Division	OFFICE OF THE SECRETARY Recommended By: GILBERTO S. REYES D.C., Director IV	Approved By: MANUEL M. BONDAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary	PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:1000 FULL SIZE A1	SHEET CONTENTS : TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 36+800 - STA. 38+200	SHEET NO. : RM-03
---	---	---	--	---	---	---	---	--	--	-----------------------------------	--	----------------------



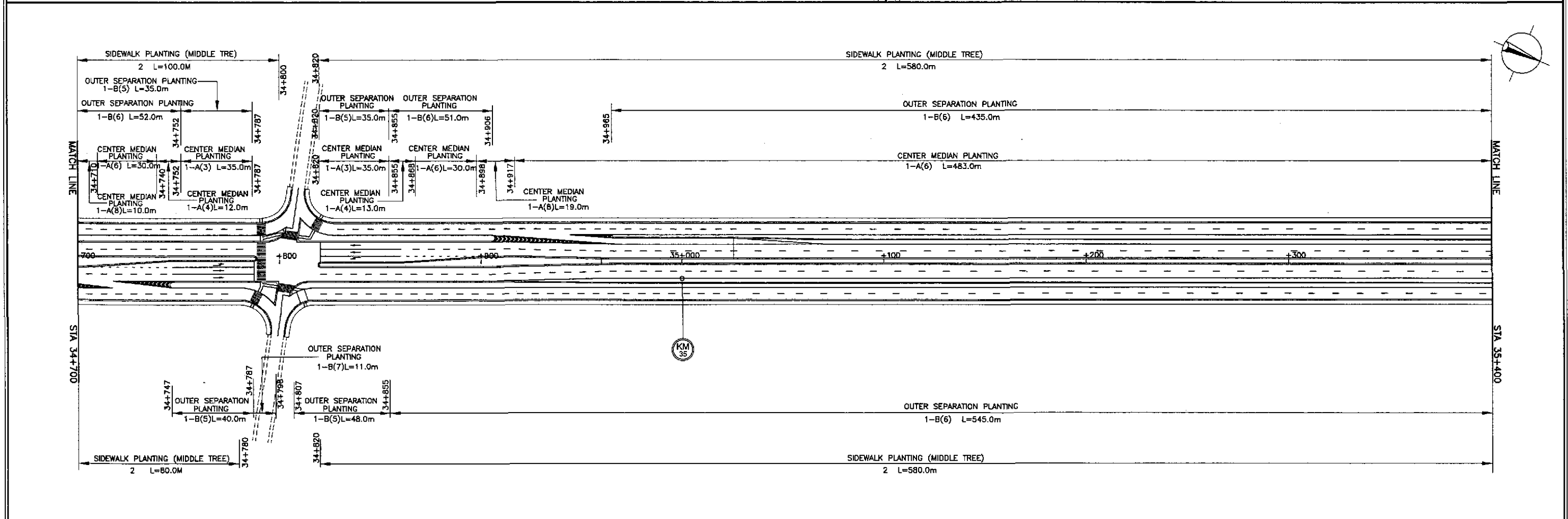
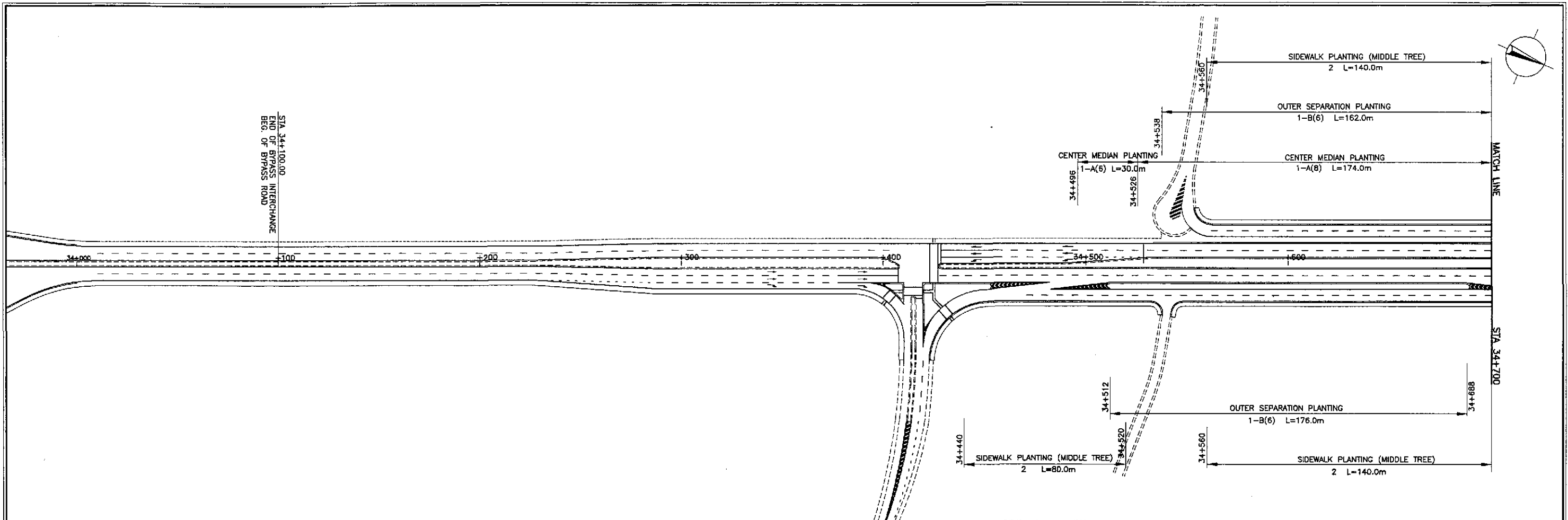
	DATE	SIGNATURE				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	DESIGNED	<i>[Signature]</i>	BUREAU OF DESIGN			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	1:1000	TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 38+200 - STA. 39+600	RM-04
	CHECKED	<i>[Signature]</i>	Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By: GILBERTO S. REYES OIC, Director IV	PLARIDEL BYPASS - CONTRACT PACKAGE I	FULL SIZE A1		
SUBMITTED	<i>[Signature]</i>	Team Leader	Recommended By: MANUEL M. BONOAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary					



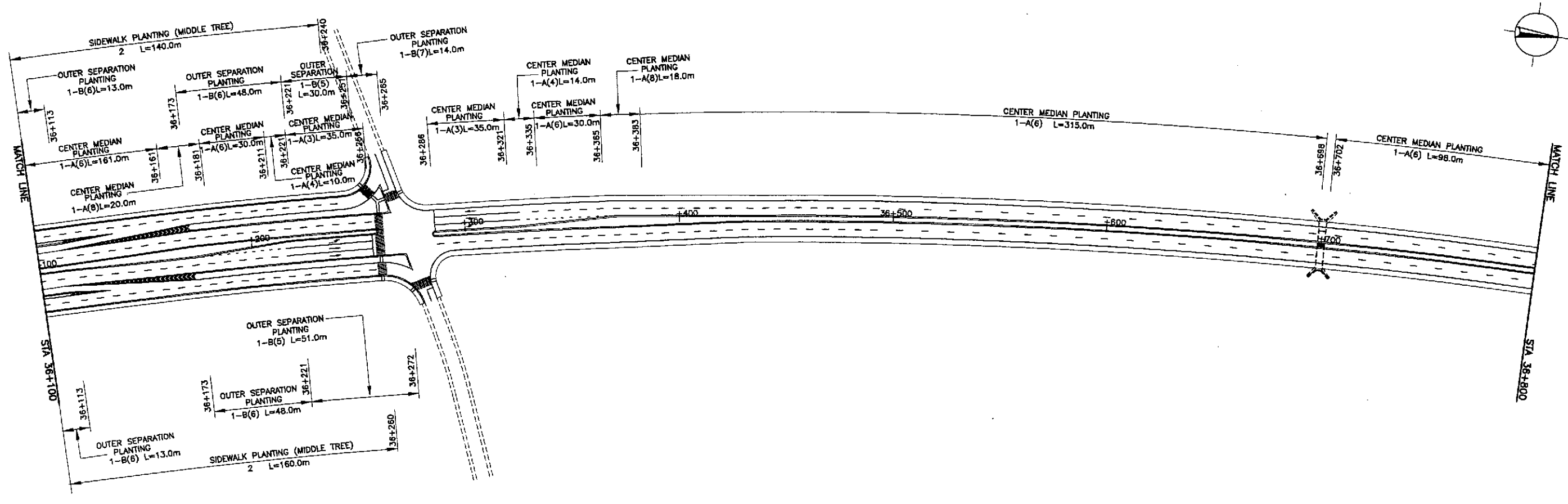
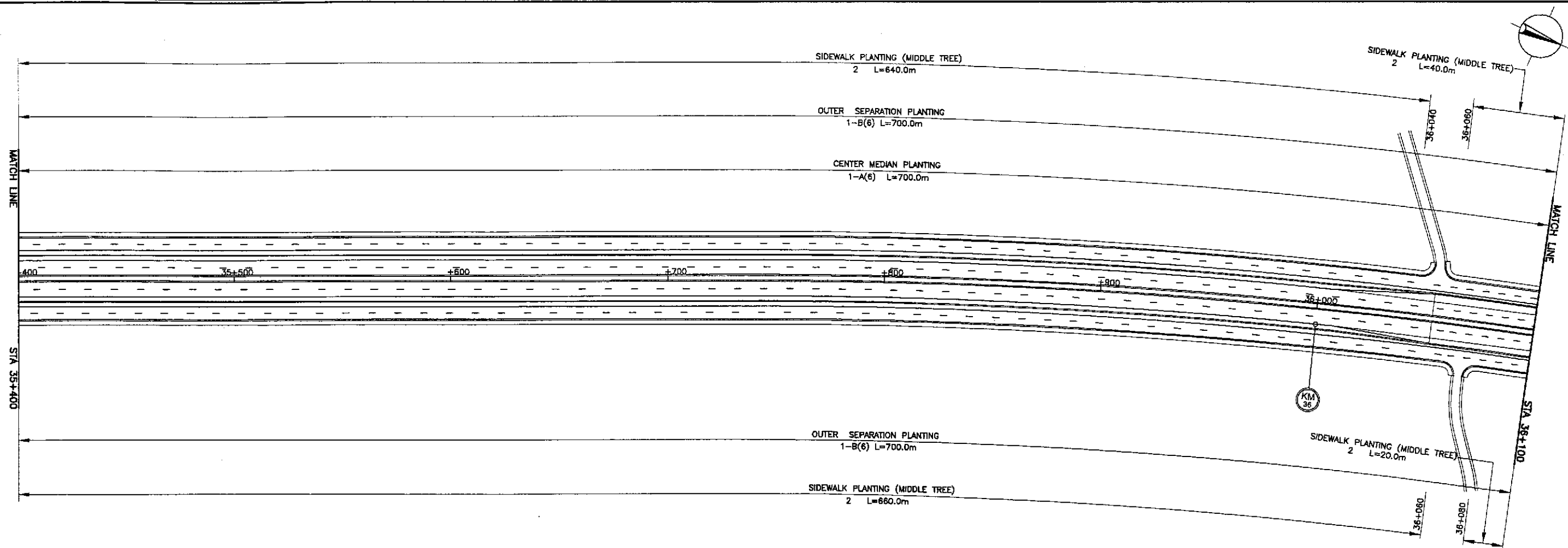
**PLARIDEL BYPASS
END OF
CONTRACT PACKAGE I
BEG. OF CONTRACT PACKAGE II**
STA. 39+625.000
ELEV. = 9.817
N = 1,646,581.893
E = 489,274.817



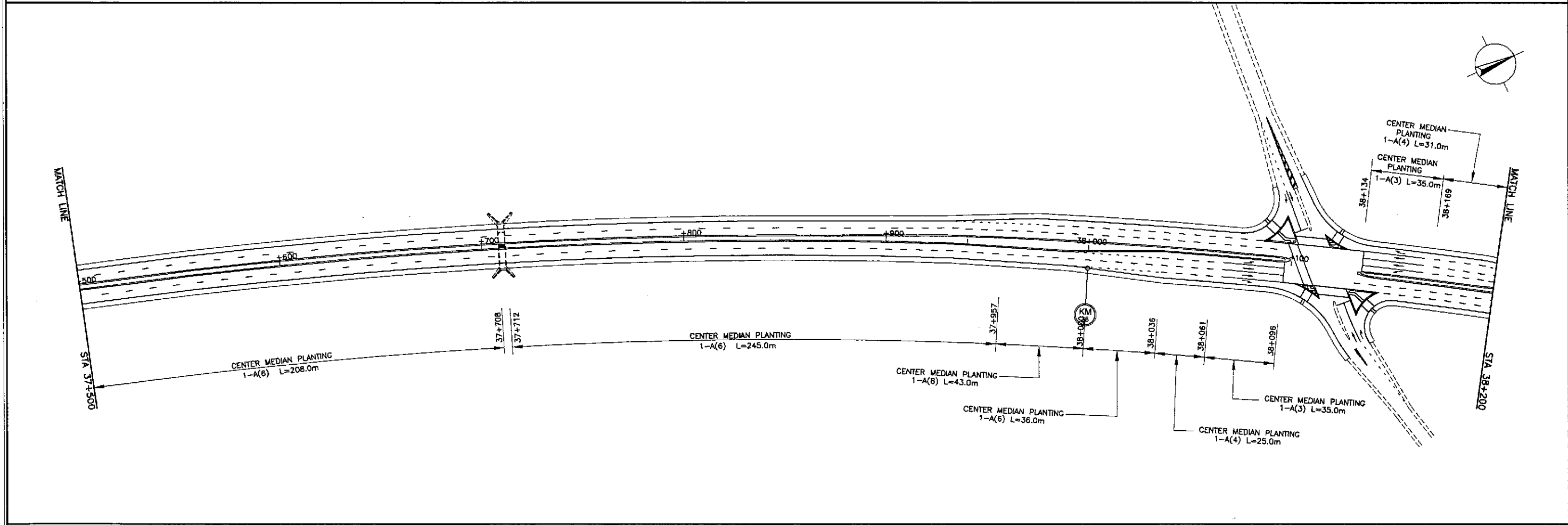
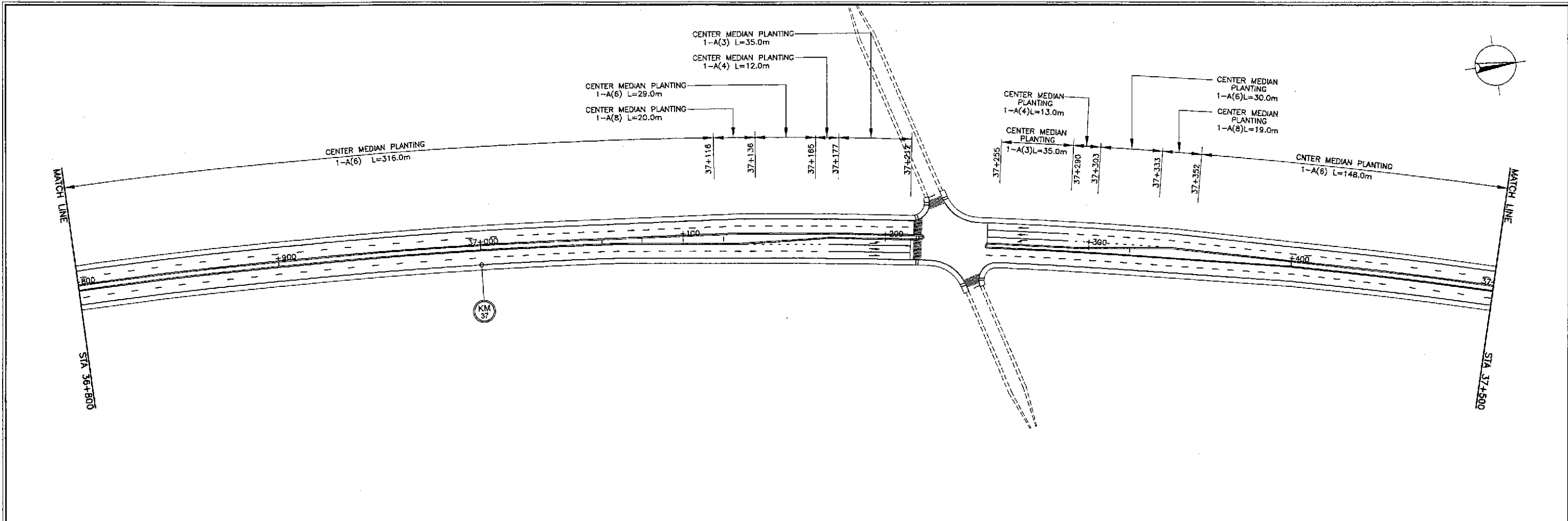
	DESIGNED	9/19/02	<i>[Signature]</i>	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/21/02	<i>[Signature]</i>	BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANO Project Director			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	1:1000	TRAFFIC SIGNS AND PAVEMENT MARKINGS LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 39+600 - STA. 39+825	RM-05
	SUBMITTED	9/23/02	<i>[Signature]</i>	OFFICE OF THE SECRETARY Recommended By: JOSEFINA M. ALAGAR Chief, Highways Division			PLARIDEL BYPASS - CONTRACT PACKAGE I	FULL SIZE A1		



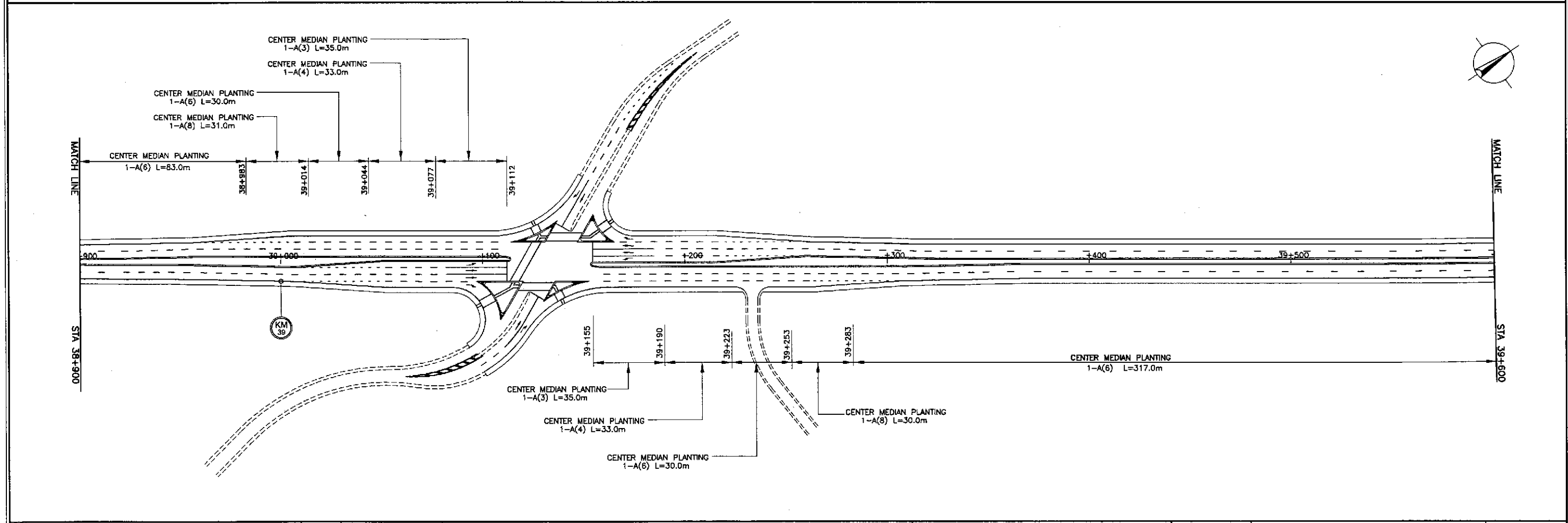
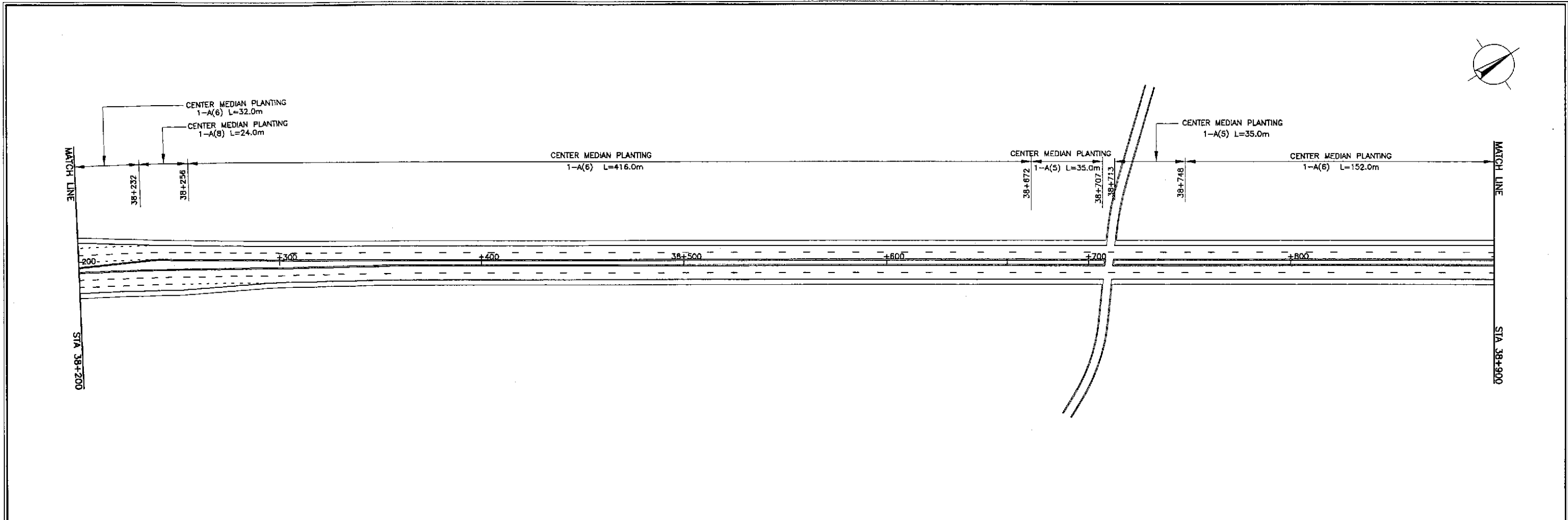
	DESIGNED	9/19/02	S. LUNA	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN OFFICE OF THE SECRETARY	PROJECT AND LOCATION :		SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/21/02	G. ROSE		Submitted By:	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)		1:000	PLANTING, GUARDRAIL AND KILOMETER POST LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 34+100 - STA. 35+400	RM-06
	SUBMITTED	9/23/02	M. RIVERA		Reviewed By:	PLARIDEL BYPASS - CONTRACT PACKAGE I		FULL SIZE A1		
				Recommended By:	MANUEL M. BONGAN Undersecretary					



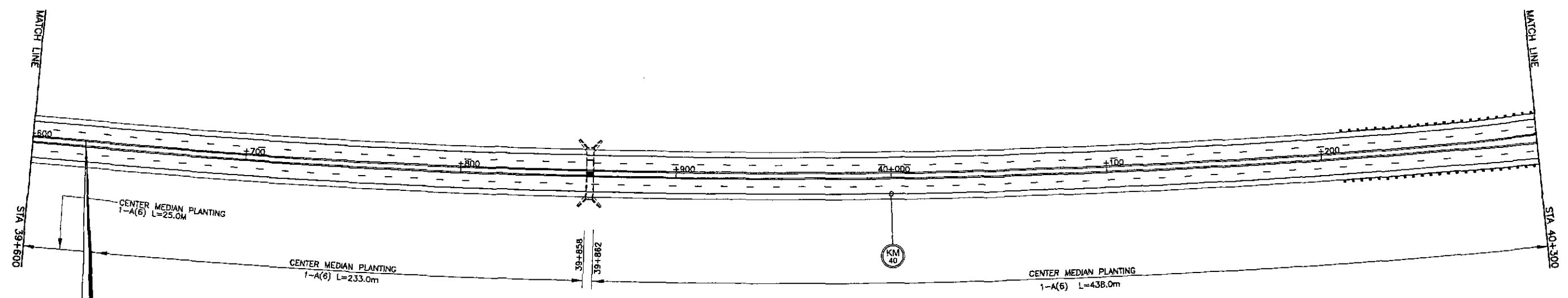
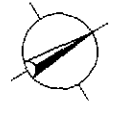
 JAPAN INTERNATIONAL COOPERATION AGENCY		 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I		SCALE : 1:1000 FULL SIZE A1	SHEET CONTENTS : PLANTING, GUARDRAIL AND KILOMETER POST LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 35+400 - STA. 36+800	SHEET NO. : RM-07
DESIGNED: <i>9/19/02</i>	DATE: <i>9/19/02</i>	SIGNATURE: <i>[Signature]</i>	SUBMITTED BY: <i>[Signature]</i>	REVIEWED BY: <i>[Signature]</i>	RECOMMENDED BY: <i>[Signature]</i>	APPROVED BY: <i>[Signature]</i>	TEAM LEADER: <i>[Signature]</i>	
KATAHIRA & ENGINEERS INTERNATIONAL		YECI YACHIYO ENGINEERING CO., LTD.		DANILLO C. TRAJANO Project Director		JOSEFINA M. ALAGAR Chief, Highways Division		



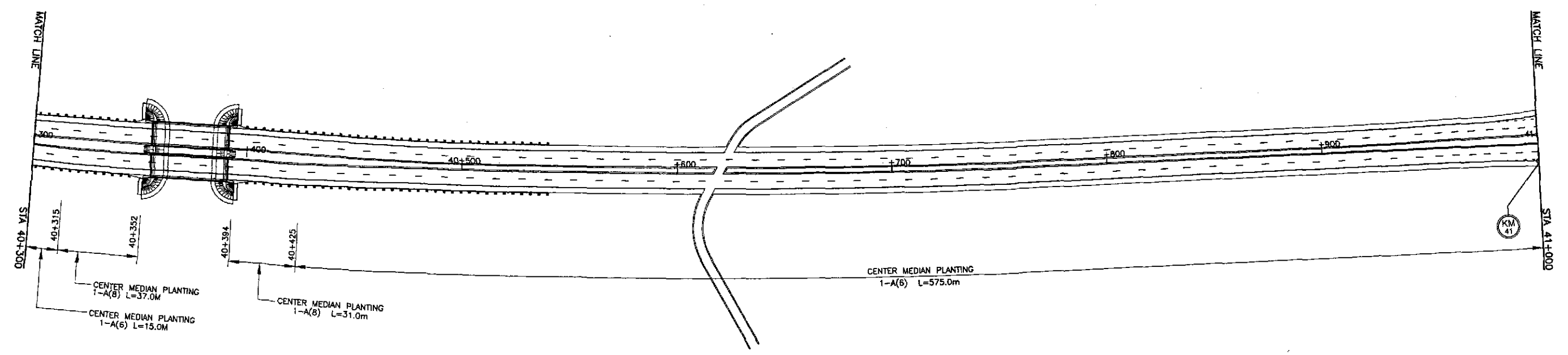
 JAPAN INTERNATIONAL COOPERATION AGENCY		 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I		SCALE : 1:1000 FULL SIZE A1	SHEET CONTENTS : PLANTING, GUARDRAIL AND KILOMETER POST LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 36+800 - STA. 38+200	SHEET NO. : RM-08					
DESIGNED	9/12/02	SIGNATURE	<i>[Signature]</i>	Submitted By:	PJNL - PMD	Reviewed By:	JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By:	GILBERTO S. REYES O/C, Director IV	Recommended By:	MANUEL M. BONDAN Undersecretary	Approved By:	SIMEON A. DATUMANONG Secretary
CHECKED	9/21/02	SIGNATURE	<i>[Signature]</i>	Submitted By:	DANILO C. TRAJANO Project Director	Reviewed By:	JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By:	GILBERTO S. REYES O/C, Director IV	Recommended By:	MANUEL M. BONDAN Undersecretary	Approved By:	SIMEON A. DATUMANONG Secretary
SUBMITTED	9/23/02	SIGNATURE	<i>[Signature]</i>	Submitted By:	DANILO C. TRAJANO Project Director	Reviewed By:	JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By:	GILBERTO S. REYES O/C, Director IV	Recommended By:	MANUEL M. BONDAN Undersecretary	Approved By:	SIMEON A. DATUMANONG Secretary



	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:1000 FULL SIZE A1	SHEET CONTENTS : PLANTING, GUARDRAIL AND KILOMETER POST LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 38+200 - STA. 39+600	SHEET NO. : RM-09
	DESIGNED	<i>[Signature]</i>		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS						
	CHECKED	<i>[Signature]</i>		BUREAU OF DESIGN						
	SUBMITTED	<i>[Signature]</i>		OFFICE OF THE SECRETARY						
			Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:			
			DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	MANUEL M. BONOAN Undersecretary	SIMEON A. DATUMANONG Secretary			



**PLARIDEL BYPASS
END OF
CONTRACT PACKAGE I
BEG. OF CONTRACT PACKAGE II**
 STA. 39+625.000
 ELEV. = 9.617
 N = 1,646,581.893
 E = 489,274.817



	DESIGNED	9/19/02	<i>[Signature]</i>		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) PLARIDEL BYPASS - CONTRACT PACKAGE I	SCALE : 1:1000 FULL SIZE A1	SHEET CONTENTS : PLANTING, GUARDRAIL AND KILOMETER POST LAYOUT PLAN ALONG BYPASS (ULTIMATE STAGE) STA. 39+600 - STA. 39+625	SHEET NO. : RM-10	
	CHECKED	9/21/02	<i>[Signature]</i>		PJHL - PMO Submitted By:	BUREAU OF DESIGN Reviewed By:	OFFICE OF THE SECRETARY Recommended By:					Approved By:
	SUBMITTED	9/22/02	<i>[Signature]</i>		DANILLO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES DIC, Director IV					MANUEL M. BONDAN Undersecretary