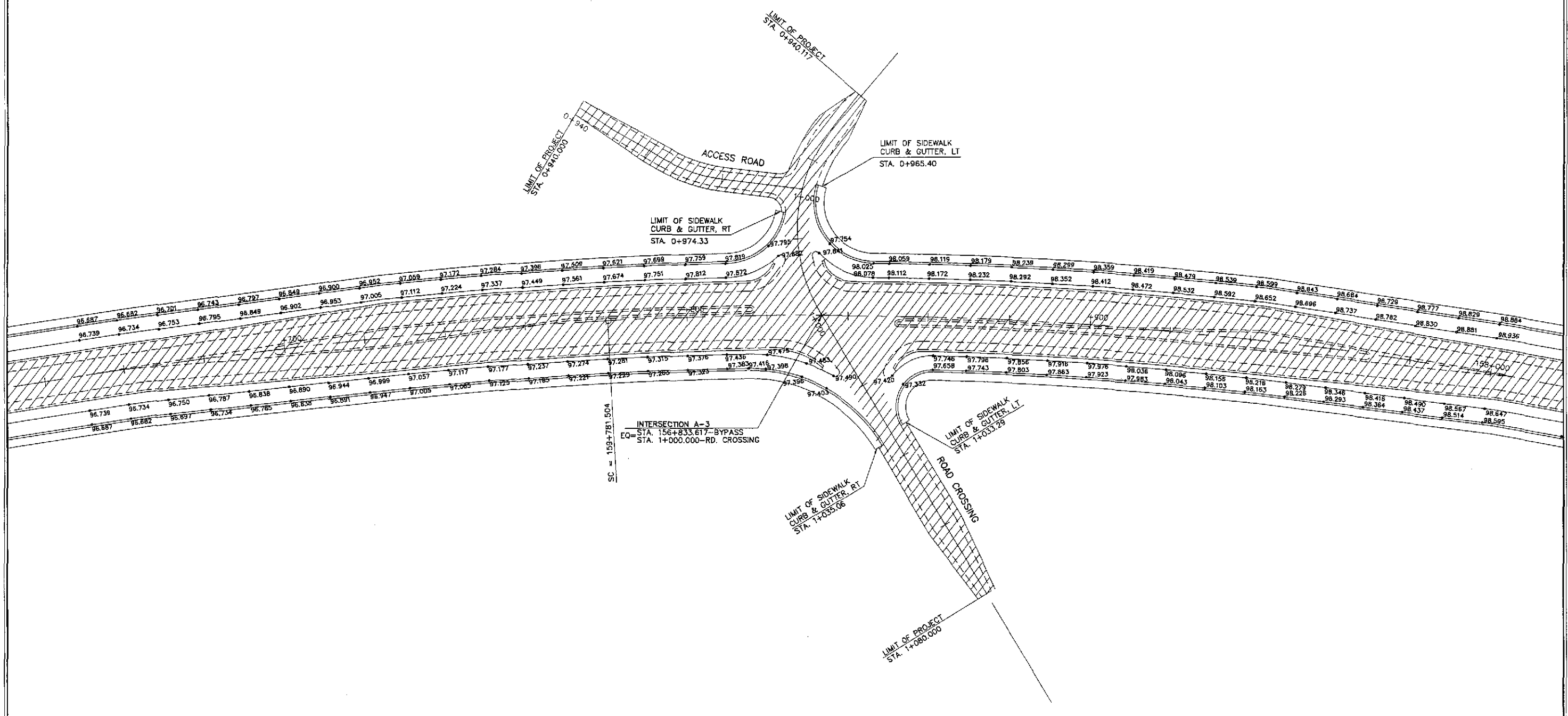
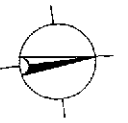


TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1746578.401	496133.959	STA. 157+665.053, BEG. OF TRANSITION
2	1746729.754	496138.412	STA. 157+816.462, END OF ISLAND NOSING
3	1746734.461	496146.482	STA. 157+822.045, BEG. OF RADIUS 20
4	1746750.505	496158.312	END OF RADIUS 20
5	1746727.146	496153.218	STA. 157+815.452, BEG. OF RADIUS 37.50
6	1746757.475	496175.425	END OF RADIUS 37.50
7	1746778.796	496215.148	LIMIT OF CONSTRUCTION
8	1746763.264	496170.951	BEG. OF RADIUS 8.50
9	1746772.345	496159.133	STA. 157+861.664, END OF RADIUS 8.50
10	1746760.204	496165.226	BEG. OF TURNING RADIUS 10
11	1746770.860	496151.319	STA. 157+858.988, END OF TURNING RADIUS 10
12	1746911.517	496176.973	STA. 158+002.393, END OF TRANSITION
13	1746764.706	496146.096	STA. 157+852.106, END OF ISLAND NOSING
14	1746754.637	496136.887	STA. 157+840.891, BEG. OF RADIUS 10
15	1746745.989	496127.768	END OF RADIUS 10
16	1746760.830	496130.159	STA. 157+846.071, BEG. OF RADIUS 14.50
17	1746749.606	496109.826	END OF RADIUS 14.50
18	1746762.553	496089.248	LIMIT OF CONSTRUCTION
19	1746744.834	496104.582	BEG. OF CURB RADIUS 4.5
20	1746739.783	496106.828	END OF CURB RADIUS 4.5
21	1746893.070	496083.563	LIMIT OF CONSTRUCTION
22	1746737.457	496110.372	BEG. OF CURB RADIUS 4.5
23	1746740.755	496115.691	END/BEG. OF CURB RADIUS 4.5, 15
24	1746739.720	496124.943	BEG. OF RADIUS 10
25	1746728.719	496133.774	STA. 157+814.942, END OF RADIUS 10
26	1746724.872	496125.831	STA. 157+810.334, END OF CURB RADIUS 15
27	1746736.611	496127.999	STA. 157+822.085, LIMIT OF SHOULDER
28	1746745.603	496154.346	STA. 157+834.159, LIMIT OF SHOULDER
29	1746762.591	496156.943	STA. 157+851.561, LIMIT OF SHOULDER
30	1746748.126	496128.606	STA. 157+833.443, LIMIT OF SHOULDER

GEOMETRIC DESIGN LAYOUT
INTERSECTION A-3 (STA. 157+833.617) - ULTIMATE STAGE

NOTES:
 1. FOR TYPICAL ROAD CROSS-SECTIONS SEE SHT. NO. RP-13 & RP-14.
 2. SHADED AREA ARE OF INITIAL STAGE.

	DESIGNED: <i>A. ORONCE</i> CHECKED: <i>S. GONZALES</i> SUBMITTED: <i>M. BONDAN</i>	DATE: 9/7/02 9/9/02 9/11/02	SIGNATURE: <i>[Signature]</i> NAME: DANILDO C. TRAJANO POSITION: Project Director	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN	PROJECT AND LOCATION: THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pilaridel, Cabanatuan and San Jose Bypasses) SAN JOSE BYPASS	SCALE: AS SHOWN FULL SIZE A1	SHEET CONTENTS: SAN JOSE BYPASS INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-3 (ULTIMATE STAGE)	SHEET NO.: RI-10	
	SUBMITTED BY: <i>[Signature]</i> NAME: MANUEL M. BONDAN POSITION: Undersecretary	REVIEWED BY: <i>[Signature]</i> NAME: JOSEFINA M. ALAGAR POSITION: Chief, Highways Division	RECOMMENDED BY: <i>[Signature]</i> NAME: GILBERTO S. REYES POSITION: OIC, Director IV	APPROVED BY: <i>[Signature]</i> NAME: SIMEDON A. DATUMANONG POSITION: Secretary	OFFICE OF THE SECRETARY	SAN JOSE BYPASS	AS SHOWN	SAN JOSE BYPASS INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-3 (ULTIMATE STAGE)	RI-10
	JAPAN INTERNATIONAL COOPERATION AGENCY	KATAHIRA & ENGINEERS INTERNATIONAL	YEO YACHIYO ENGINEERING CO., LTD.	DANILDO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES OIC, Director IV	SIMEDON A. DATUMANONG Secretary	SAN JOSE BYPASS	RI-10



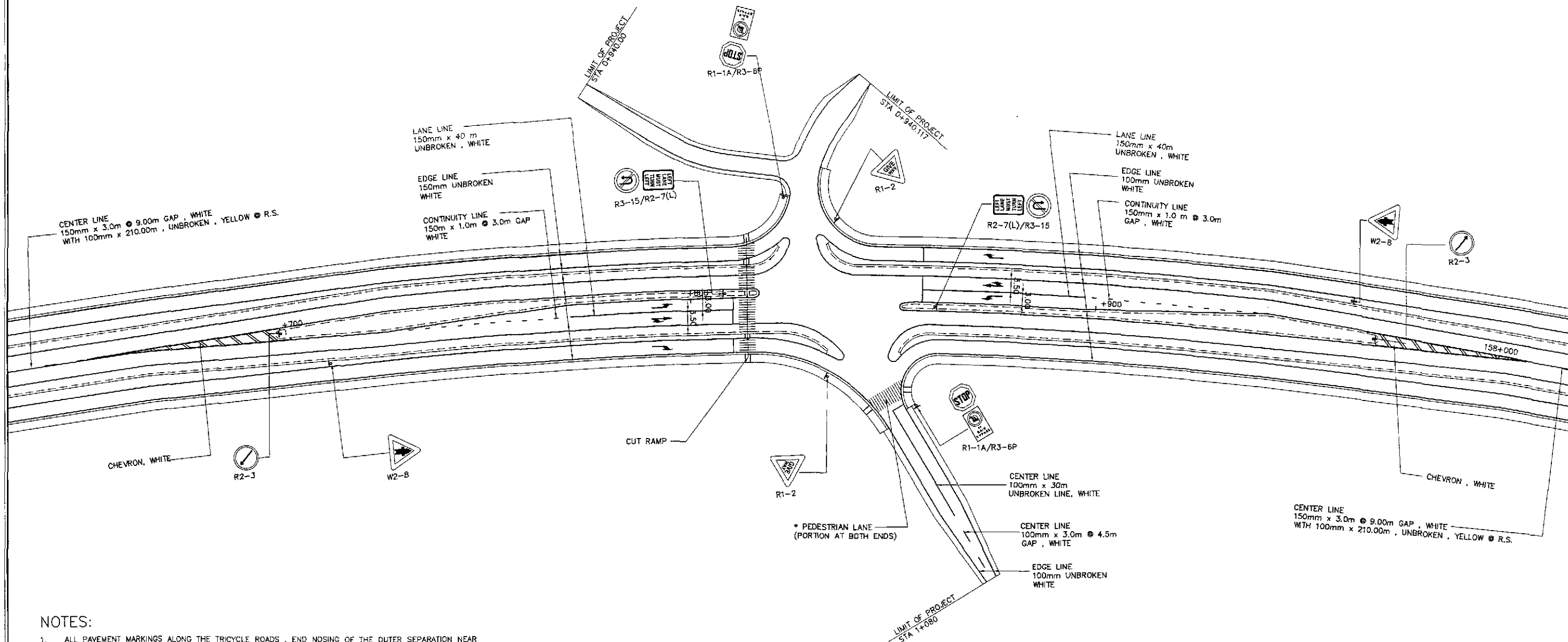
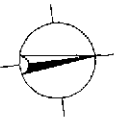
NOTES:

1. FIN. SPOT ELEVATIONS OF THE EDGE OF PAVEMENT AND SHOULDER PRESENTED HEREIN WERE REFERRED FROM THE CENTERLINE/BASELINE.
2. SPOT ELEVATIONS ARE AT TEN (10) METERS REGULAR INTERVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
3. FOR GEOMETRIC DESIGN LAYOUT OF INTERSECTION, SEE SHEET NO. RI-10.

PAVING PLAN

(A) **INTERSECTION A-3 (STA. 157+833.617) - ULTIMATE STAGE**
 RI-11 SCALE 1:500

		DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES					
	DESIGNED	9/2/02	[Signature]		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/9/02	S. JOSE		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	SAN JOSE BYPASS INTERSECTION DETAIL PAVING PLAN INTERSECTION A-3 (ULTIMATE STAGE)	RI-11	
SUBMITTED	9/10/02	[Signature]	OFFICE OF THE SECRETARY	SAN JOSE BYPASS	FULL SIZE A1					



NOTES:

1. ALL PAVEMENT MARKINGS ALONG THE TRICYCLE ROADS, END NOSING OF THE OUTER SEPARATION NEAR INTERSECTIONS & ALONG AREAS WHERE PAVED ONLY DURING THE ULTIMATE STAGE (MARKED WITH ASTERISK (*)) ARE QUANTITIES IN THE ULTIMATE STAGE.
2. PAVEMENT MARKINGS IN THE INITIAL STAGE WHICH ARE NO LONGER SHOWN IN THESE DRAWINGS, SHALL BE REMOVED. LIKEWISE INITIAL STAGE MARKINGS MODIFIED IN THE ULTIMATE SHALL BE TOTALLY ERASED PRIOR TO THE CONSTRUCTION OF THE NEW ONE.
3. ALL CUT RAMPS ALONG THE SIDEWALKS & OUTER SEPARATION ARE IN ULTIMATE STAGE. CUT RAMPS AT CENTER MEDIAN & CORNER ISLANDS ARE INITIAL STAGE. FOR CUT RAMPS DETAILS SEE SHEET RS-06.
4. OTHER PAVEMENT MARKINGS NOT MENTIONED IN ITEM 1 ARE INITIAL STAGE. QUANTITIES HENCE, ARE EXCLUDED IN THIS STAGE (ULTIMATE). FOR PURPOSES OF MAINTENANCE WORK (PROJECT BY OTHERS), THESE ITEMS ARE SHOWN.
5. ALL TRAFFIC SIGNS ARE EXISTING QUANTITIES (INSTALLED IN THE INITIAL STAGE). SIGNS MARKED WITH ASTERISK (*) ARE TO BE REINSTALLED TO PROPER POSITION AS SHOWN IN THE STANDARD DRAWING. REFER SHEET NOS. RS-14 & RS-15.

**TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT
INTERSECTION A-3, STA. 157+833.616 (ULTIMATE STAGE)**

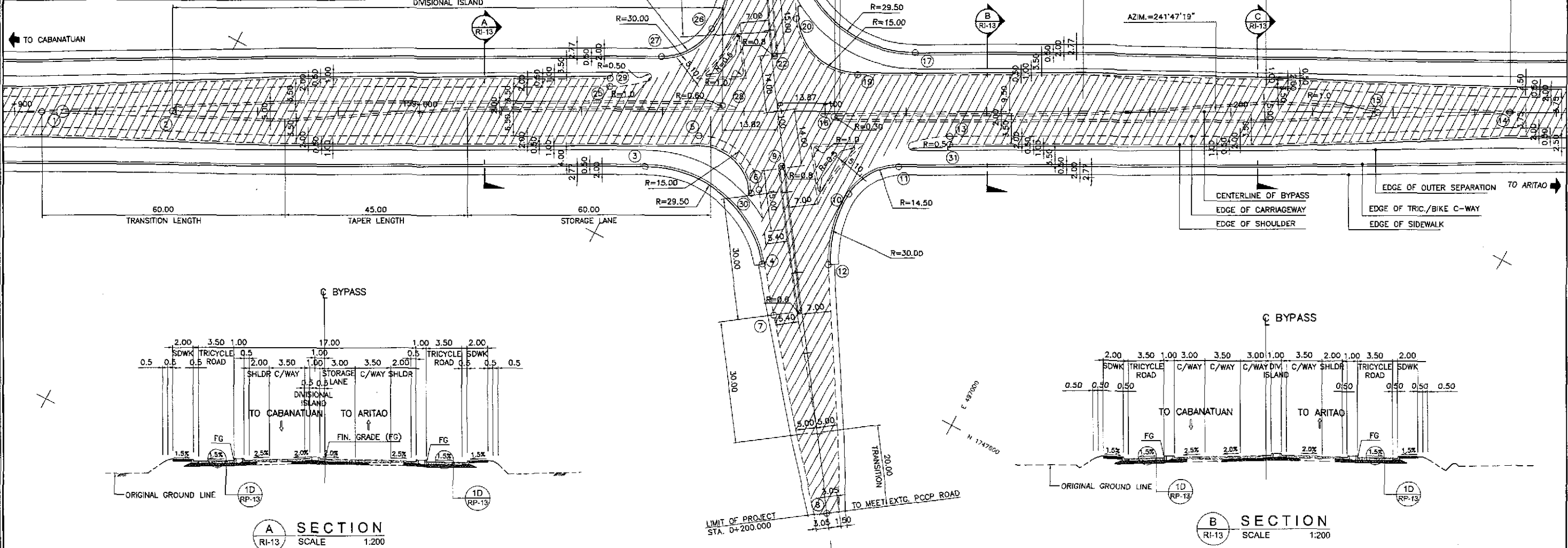
A
R1-12

SCALE

1:500

	DESIGNED	9/3/02	S. S. S.		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/9/02	S. S. S.		BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANO Project Director	OFFICE OF THE SECRETARY Reviewed By: JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By: GILBERTO S. REYES OIC, Director IV	Recommended By: MANUEL M. BONDAN Undersecretary	Approves By: SIMEON A. DATUMANONG Secretary	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Iralda, Cabanatuan and San Jose Bypasses)	1:500	SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-3 (ULTIMATE STAGE)	R1-12
	SUBMITTED	9/11/02	M. R. R.		TEAM LEADER					SAN JOSE BYPASS	FULL SIZE A1		

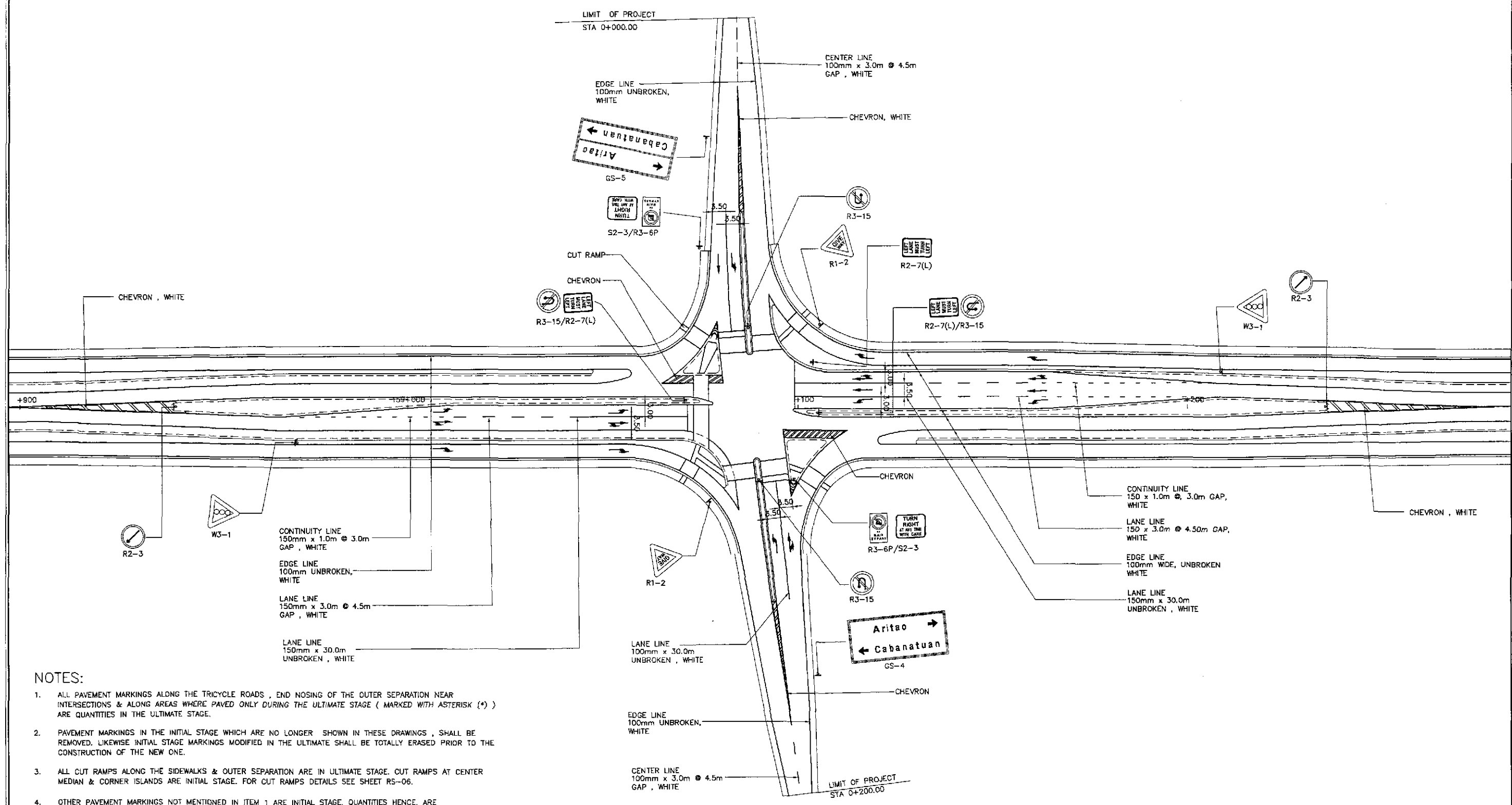
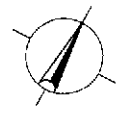
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1747561.905	496765.715	STA. 158+906.727, BEG. OF TRANSITION
2	1747577.203	496794.233	STA. 158+939.090, END OF ISLAND NOSING
3	1747620.375	496903.266	STA. 159+055.579, BEG. OF RADIUS 29.50
4	1747612.930	496840.149	END OF CURB 29.50
5	1747633.239	496911.382	STA. 159+068.813, BEG. OF RADIUS 15
6	1747628.658	496930.737	END OF RADIUS 15
7	1747603.162	496948.690	PERPENDICULAR TO CTR. OF ISLAND NOSING
8	1747566.328	496983.192	LIMIT OF CONSTRUCTION
9	1747636.295	496932.943	STA. 159+089.257, END OF ISLAND NOSING
10	1747638.142	496950.700	STA. 159+105.354, BEG. OF RADIUS 14.50
11	1747649.903	496958.310	STA. 159+118.043, END OF RADIUS 14.50
12	1747620.471	496954.503	BEG. OF RADIUS 30
13	1747682.510	496965.945	STA. 159+130.731, END OF RADIUS 30
14	1747732.932	497084.527	STA. 159+268.517, BEG. OF TRANSITION
15	1747717.634	497056.010	STA. 159+236.155, END OF ISLAND NOSING
16	1747653.234	496938.648	STA. 159+102.291, END OF ISLAND NOSING
17	1747676.538	496948.729	STA. 159+122.191, BEG. OF RADIUS 30
18	1747686.382	496910.098	END OF RADIUS 30
19	1747664.929	496938.723	STA. 159+107.886, BEG. OF RADIUS 15
20	1747669.970	496919.057	END OF RADIUS 15
21	1747690.179	496899.568	END OF ISLAND NOSING
22	1747659.377	496918.676	END OF ISLAND NOSING
23	1747733.690	496874.773	LIMIT OF CONSTRUCTION
24	1747672.868	496899.335	BEG. OF TURNING 30
25	1747633.485	496886.454	STA. 159+046.962, END OF TURNING RADIUS 30
26	1747657.853	496901.701	BEG. OF CURB RADIUS 14.50
27	1747646.092	496894.091	END OF CURB RADIUS 14.50
28	1747642.361	496913.045	STA. 159+074.599, END OF ISLAND NOSING
29	1747635.247	496885.509	STA. 159+046.962, LIMIT OF SHOULDER
30	1747626.968	496928.482	STA. 159+081.797, LIMIT OF SHOULDER
31	1747660.748	496966.891	STA. 159+130.731, LIMIT OF SHOULDER



GEOMETRIC DESIGN LAYOUT
 INTERSECTION A-4 (STA. 159+088.415) - ULTIMATE STAGE
 SCALE 1:500

NOTES:
 1. FOR TYPICAL ROAD CROSS-SECTIONS SEE SHT. NO. RP-13 & RP-14.
 2. SHADED AREA ARE OF INITIAL STAGE.

	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	DESIGNED	1/1/02	[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)	AS SHOWN	SAN JOSE BYPASS INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-4 (ULTIMATE STAGE)	RI-13
	CHECKED	9/19/02	[Signature]	OFFICE OF THE SECRETARY				FULL SIZE A1			
	SUBMITTED	9/11/02	[Signature]	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. BONGAN, Undersecretary Approved By: SIMEON A. DATUMANDING, Secretary							
			PROJECT AND LOCATION : SAN JOSE BYPASS								



NOTES:

1. ALL PAVEMENT MARKINGS ALONG THE TRICYCLE ROADS, END NOSING OF THE OUTER SEPARATION NEAR INTERSECTIONS & ALONG AREAS WHERE PAVED ONLY DURING THE ULTIMATE STAGE (MARKED WITH ASTERISK (*)) ARE QUANTITIES IN THE ULTIMATE STAGE.
2. PAVEMENT MARKINGS IN THE INITIAL STAGE WHICH ARE NO LONGER SHOWN IN THESE DRAWINGS, SHALL BE REMOVED. LIKEWISE INITIAL STAGE MARKINGS MODIFIED IN THE ULTIMATE SHALL BE TOTALLY ERASED PRIOR TO THE CONSTRUCTION OF THE NEW ONE.
3. ALL CUT RAMPS ALONG THE SIDEWALKS & OUTER SEPARATION ARE IN ULTIMATE STAGE. CUT RAMPS AT CENTER MEDIAN & CORNER ISLANDS ARE INITIAL STAGE. FOR CUT RAMPS DETAILS SEE SHEET RS-06.
4. OTHER PAVEMENT MARKINGS NOT MENTIONED IN ITEM 1 ARE INITIAL STAGE. QUANTITIES HENCE, ARE EXCLUDED IN THIS STAGE (ULTIMATE). FOR PURPOSES OF MAINTENANCE WORK (PROJECT BY OTHERS), THESE ITEMS ARE SHOWN.
5. ALL TRAFFIC SIGNS ARE EXISTING QUANTITIES (INSTALLED IN THE INITIAL STAGE). SIGNS MARKED WITH ASTERISK (*) ARE TO BE REINSTALLED TO PROPER POSITION AS SHOWN IN THE STANDARD DRAWING. REFER SHEET NOS. RS-14 & RS-15.

**TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT
INTERSECTION A-4, STA. 159+088.419 (ULTIMATE STAGE)**

A
R1-15

SCALE

1:500

	DESIGNED	9/17/02	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) SAN JOSE BYPASS	SCALE :	1:500	SHEET CONTENTS :	SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-4 (ULTIMATE STAGE)	SHEET NO. :	R1-15
	CHECKED	9/19/02	S. LUNA		P.J.M. - PMD 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 OIC, Director IV	Approved By: MANUEL M. BONDAN Undersecretary		Approved By: SIMEON A. DATUMANONG Secretary	FULL SIZE A1				

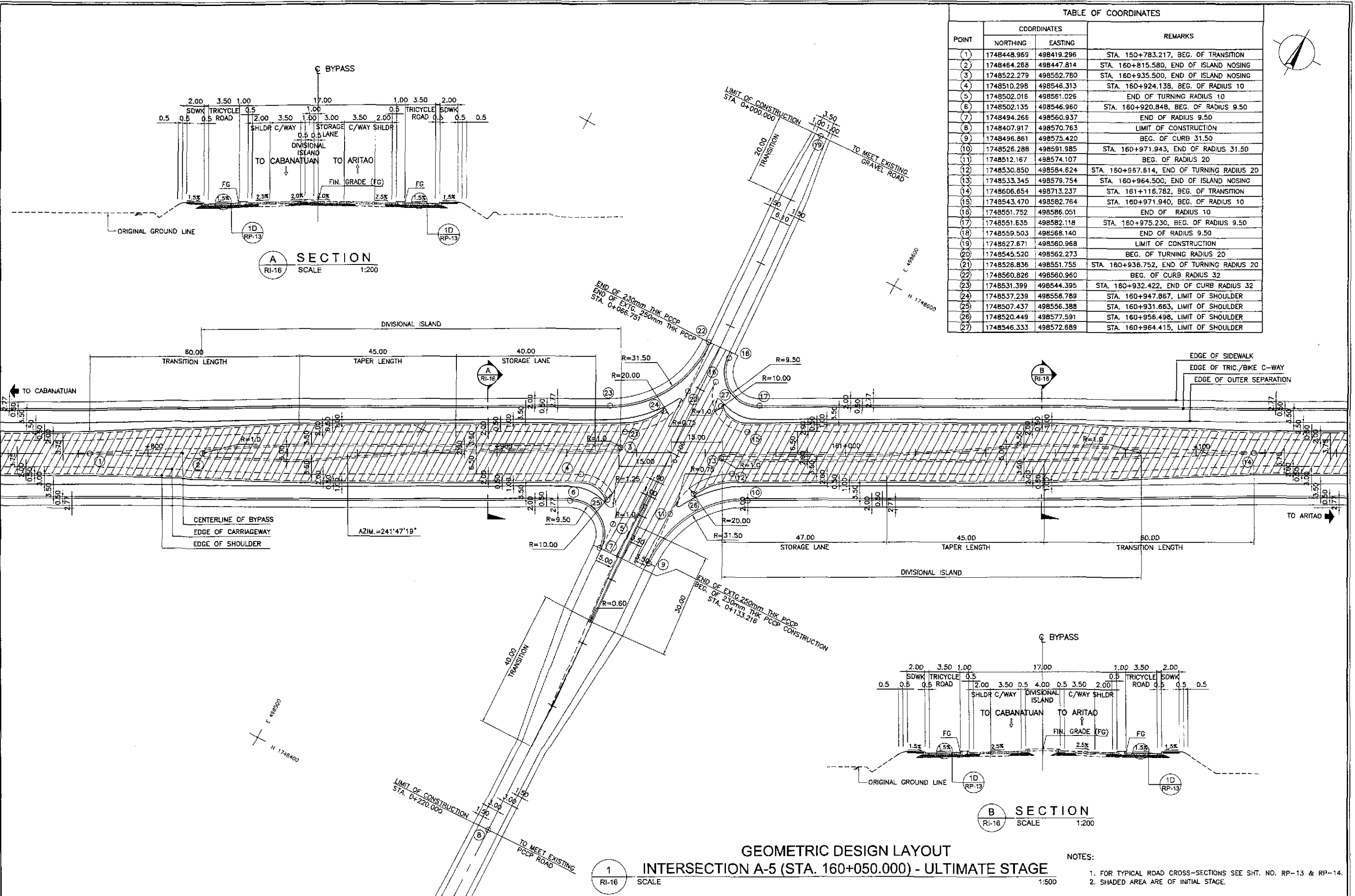


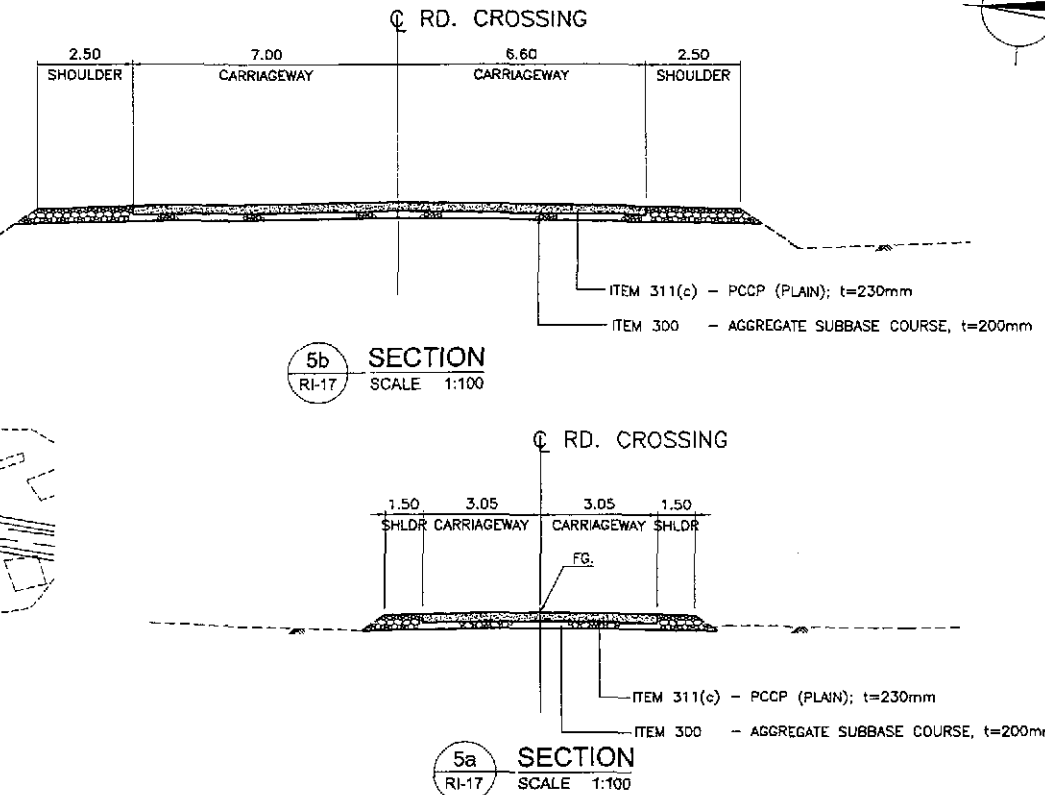
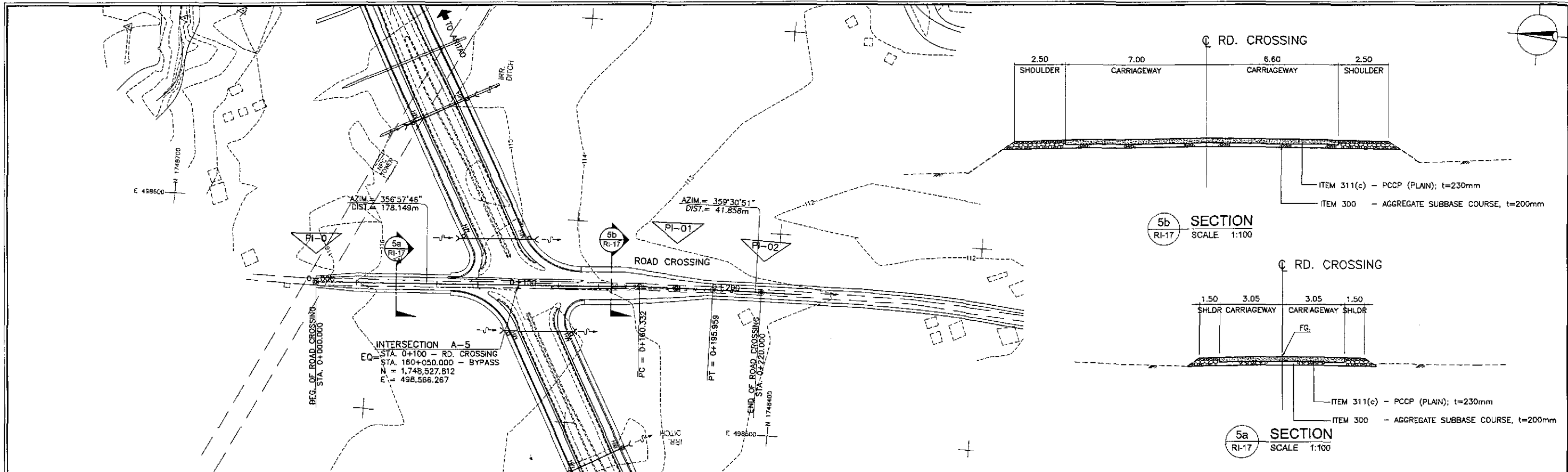
TABLE OF COORDINATES			
POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
(1)	1748448.969	498419.296	STA. 150+783.217, BEG. OF TRANSITION
(2)	1748464.268	498447.814	STA. 160+815.580, END OF ISLAND NOSING
(3)	1748522.279	498552.780	STA. 160+935.500, END OF ISLAND NOSING
(4)	1748510.298	498546.313	STA. 160+924.138, BEG. OF RADIUS 10
(5)	1748502.016	498561.026	END OF TURNING RADIUS 10
(6)	1748502.135	498546.960	STA. 160+920.848, BEG. OF RADIUS 9.50
(7)	1748494.266	498560.937	END OF RADIUS 9.50
(8)	1748407.917	498570.763	LIMIT OF CONSTRUCTION
(9)	1748496.861	498575.420	BEG. OF CURB 31.50
(10)	1748526.288	498591.985	STA. 160+971.943, END OF RADIUS 31.50
(11)	1748512.167	498574.107	BEG. OF RADIUS 20
(12)	1748530.850	498584.624	STA. 160+987.614, END OF TURNING RADIUS 20
(13)	1748533.345	498579.754	STA. 160+964.500, END OF ISLAND NOSING
(14)	1748606.854	498713.237	STA. 161+116.782, BEG. OF TRANSITION
(15)	1748543.470	498582.764	STA. 160+971.940, BEG. OF RADIUS 10
(16)	1748551.752	498586.051	END OF RADIUS 10
(17)	1748551.635	498582.118	STA. 160+975.230, BEG. OF RADIUS 9.50
(18)	1748559.503	498568.140	END OF RADIUS 9.50
(19)	1748627.671	498560.968	LIMIT OF CONSTRUCTION
(20)	1748545.520	498562.273	BEG. OF TURNING RADIUS 20
(21)	1748526.836	498551.755	STA. 160+936.752, END OF TURNING RADIUS 20
(22)	1748560.828	498560.960	BEG. OF CURB RADIUS 32
(23)	1748531.399	498544.395	STA. 160+932.422, END OF CURB RADIUS 32
(24)	1748537.239	498556.769	STA. 160+947.867, LIMIT OF SHOULDER
(25)	1748507.437	498556.388	STA. 160+931.663, LIMIT OF SHOULDER
(26)	1748520.449	498577.591	STA. 160+956.498, LIMIT OF SHOULDER
(27)	1748546.333	498572.689	STA. 160+964.415, LIMIT OF SHOULDER

GEOMETRIC DESIGN LAYOUT
INTERSECTION A-5 (STA. 160+050.000) - ULTIMATE STAGE

SCALE: 1:500

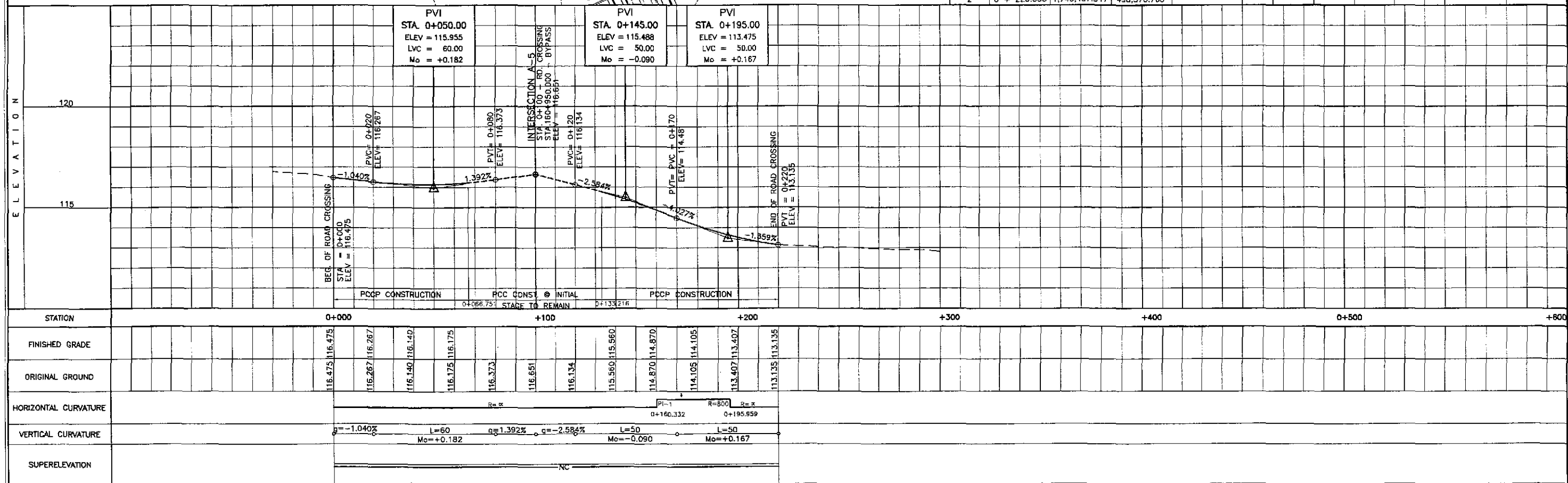
NOTES:
 1. FOR TYPICAL ROAD CROSS-SECTIONS SEE SHT. NO. RP-13 & RP-14.
 2. SHADED AREA ARE OF INITIAL STAGE.

	DESIGNED	DATE	SIGNATURE		PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/9/02	S. JOSE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS 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)	AS SHOWN	SAN JOSE BYPASS INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-5 (ULTIMATE STAGE)	RI-16
	SUBMITTED	9/10/02	M. KUMAR		Submitted By: DANILO C. TRAJANO Project Director Reviewed By: JOSEFINA M. ALAGAR Chief, Highways Division Recommended By: GILBERTO S. REYES DIC, Director IV Recommended By: MANUEL M. BONDAN Undersecretary Approved By: SIMEON A. DATUMANONG Secretary	SAN JOSE BYPASS	FULL SIZE A1		

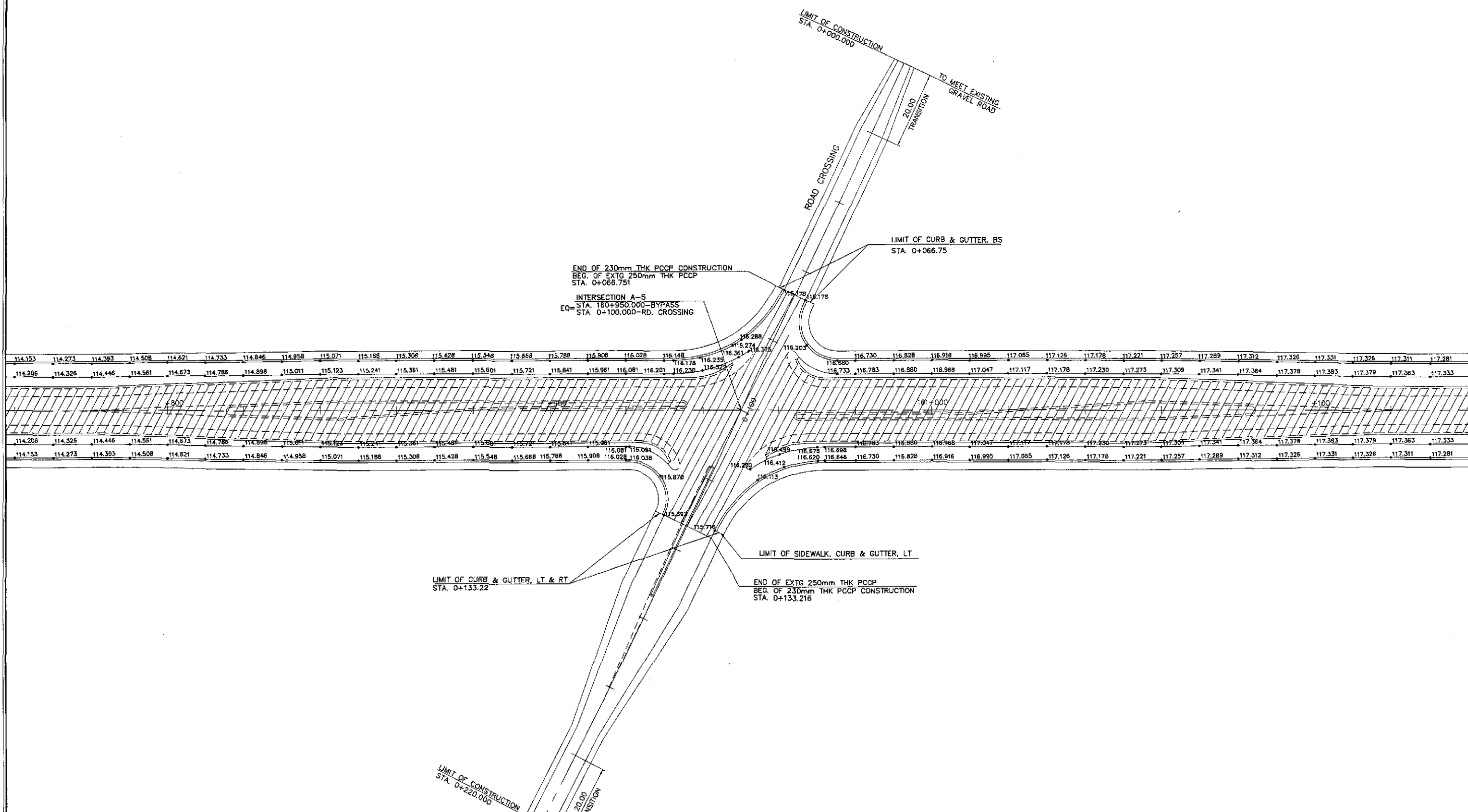
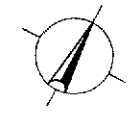


NOTES:
GRAVEL MATERIALS LAYED DURING THE INITIAL STAGE SHALL BE EXCAVATED AND RECONSTRUCTED AS SUBBASE MATERIALS TO THICKNESS AS INDICATED IN THE SECTION AS SHOWN.

PI NO.	STATION	COORDINATES		Δ	R	T	Lc	E	e%	V (kph)	STATION	
		NORTHING	EASTING								PC	PT
		0	0 + 000.000								1,748,527.671	498,560.968
1	0 + 178.149	1,748,449.773	498,570.408	02°33'06"	800	17.817	35.628	0.198	-	40	0+160.332	0+195.959
2	0 + 220.000	1,748,407.917	498,570.763									



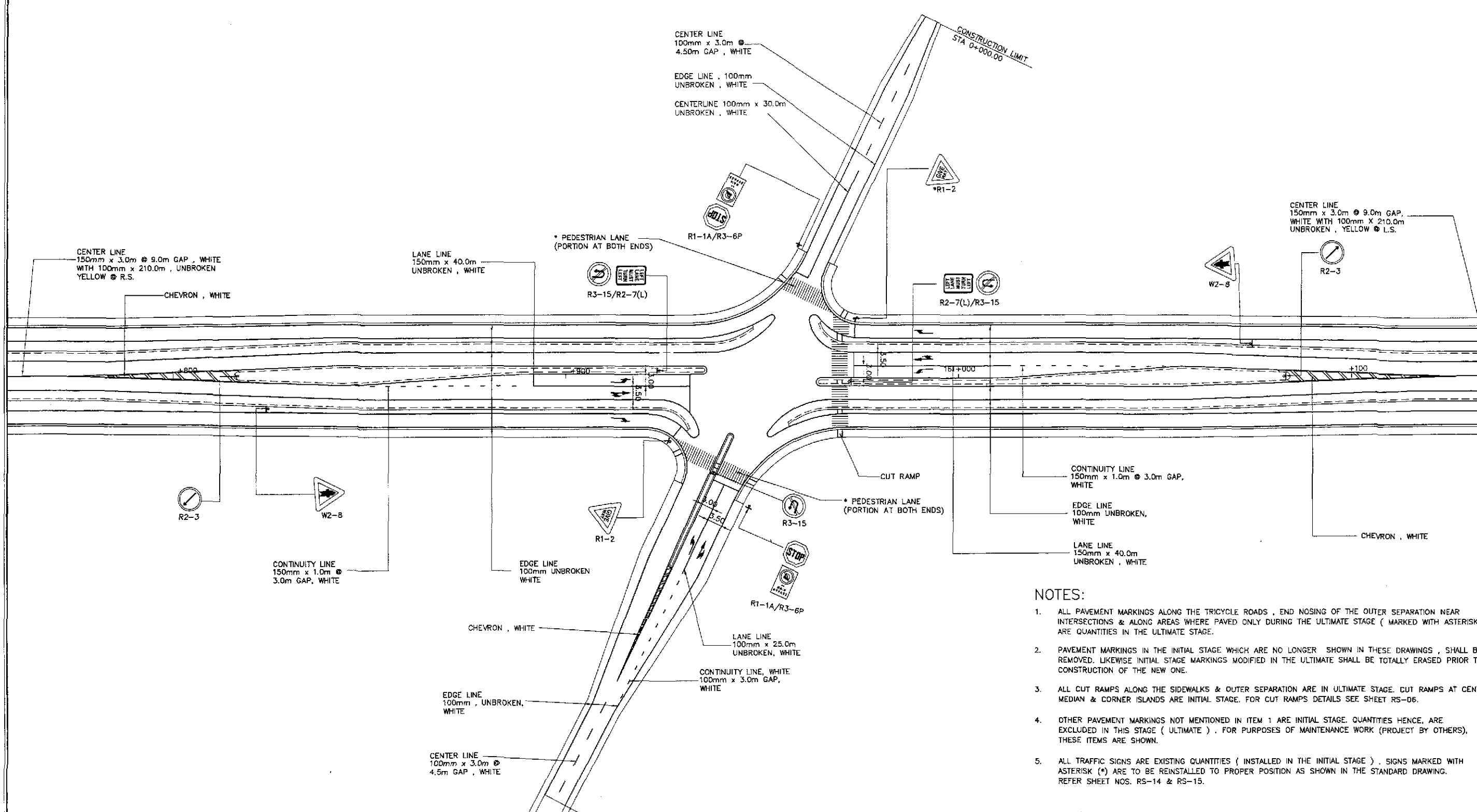
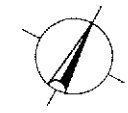
	DESIGNED	DATE	SIGNATURE		PROJECT AND LOCATION :				SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/19/02	S. G. B. O. S.		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)				HORIZONTAL 1:1000	PLAN, PROFILE & SECTION INTERSECTION A-5 ROAD CROSSING (STA. 0+000.000 - 0+220.000)	RI-17
	SUBMITTED	7/11/02	Team Leader		SAN JOSE BYPASS				VERTICAL 1:100		
					FULL SIZE A1						



- NOTES:
1. FIN. SPOT ELEVATIONS OF THE EDGE OF PAVEMENT AND SHOULDER PRESENTED HEREIN WERE REFERRED FROM THE CENTERLINE/BASELINE.
 2. SPOT ELEVATIONS ARE AT TEN (10) METERS REGULAR INTERVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
 3. FOR GEOMETRIC DESIGN LAYOUT OF INTERSECTION, SEE SHEET NO. RI-17.

PAVING PLAN
INTERSECTION A-5 (STA. 160+950.000) - 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	9/1/02	<i>[Signature]</i>			BUREAU OF DESIGN	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Palaridel, Cabanatuan and San Jose Bypasses)	1:500	SAN JOSE BYPASS INTERSECTION DETAIL PAVING PLAN INTERSECTION A-5 (ULTIMATE STAGE)	RI-18
	SUBMITTED	7/11/02	<i>[Signature]</i>			OFFICE OF THE SECRETARY	SAN JOSE BYPASS	FULL SIZE A1		



- NOTES:**
1. ALL PAVEMENT MARKINGS ALONG THE TRICYCLE ROADS, END NOSING OF THE OUTER SEPARATION NEAR INTERSECTIONS & ALONG AREAS WHERE PAVED ONLY DURING THE ULTIMATE STAGE (MARKED WITH ASTERISK (*)) ARE QUANTITIES IN THE ULTIMATE STAGE.
 2. PAVEMENT MARKINGS IN THE INITIAL STAGE WHICH ARE NO LONGER SHOWN IN THESE DRAWINGS, SHALL BE REMOVED. LIKEWISE INITIAL STAGE MARKINGS MODIFIED IN THE ULTIMATE SHALL BE TOTALLY ERASED PRIOR TO THE CONSTRUCTION OF THE NEW ONE.
 3. ALL CUT RAMPS ALONG THE SIDEWALKS & OUTER SEPARATION ARE IN ULTIMATE STAGE. CUT RAMPS AT CENTER MEDIAN & CORNER ISLANDS ARE INITIAL STAGE. FOR CUT RAMPS DETAILS SEE SHEET RS-06.
 4. OTHER PAVEMENT MARKINGS NOT MENTIONED IN ITEM 1 ARE INITIAL STAGE. QUANTITIES HENCE, ARE EXCLUDED IN THIS STAGE (ULTIMATE), FOR PURPOSES OF MAINTENANCE WORK (PROJECT BY OTHERS), THESE ITEMS ARE SHOWN.
 5. ALL TRAFFIC SIGNS ARE EXISTING QUANTITIES (INSTALLED IN THE INITIAL STAGE). SIGNS MARKED WITH ASTERISK (*) ARE TO BE REINSTALLED TO PROPER POSITION AS SHOWN IN THE STANDARD DRAWING. REFER SHEET NOS. RS-14 & RS-15.

**TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT
INTERSECTION A-5, STA. 160+950.000 (ULTIMATE STAGE)**

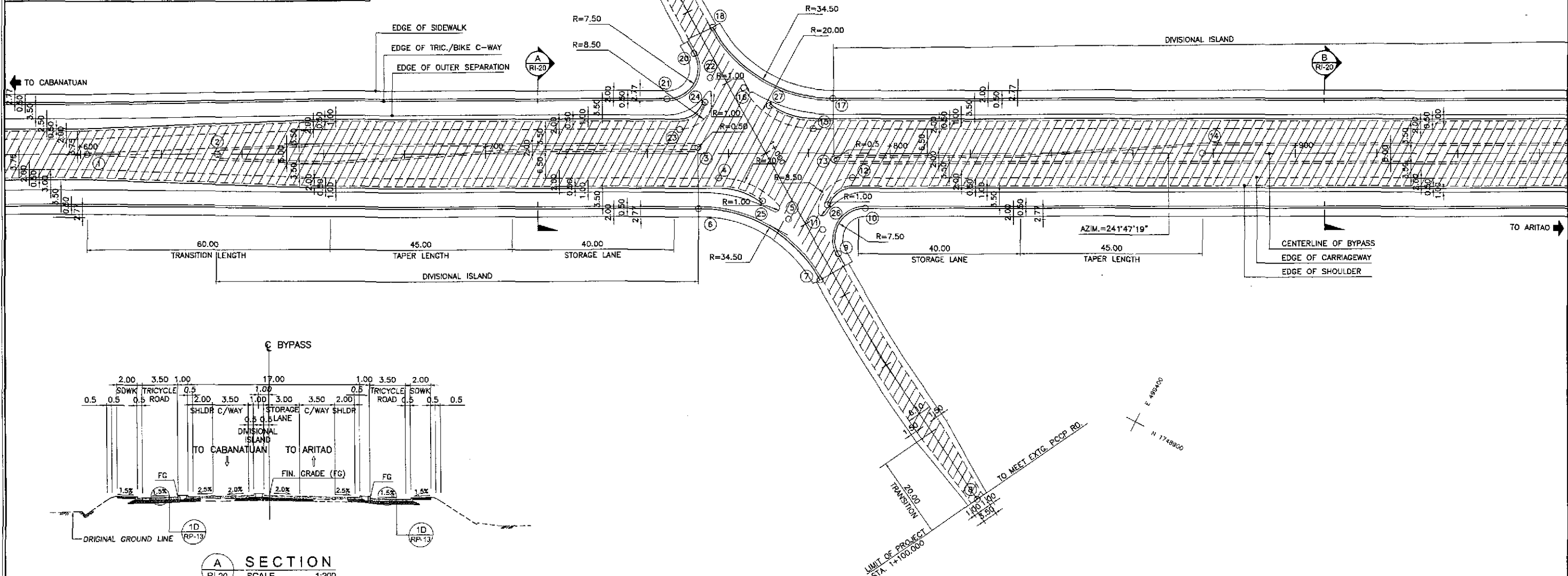
A
R1-19

SCALE

1:500

	DESIGNED	DATE	SIGNATURE	<p align="center">REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/9/02	<i>S. Garcia</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)			1:500	<p align="center">SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-5 (ULTIMATE STAGE)</p>	<p align="center">R1-19</p>
	SUBMITTED	9/11/02	<i>M. Ruda</i>		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. BONGAN Undersecretary Approved By: SIMEDON A. DATUMANONG Secretary	SAN JOSE BYPASS FULL SIZE A1					

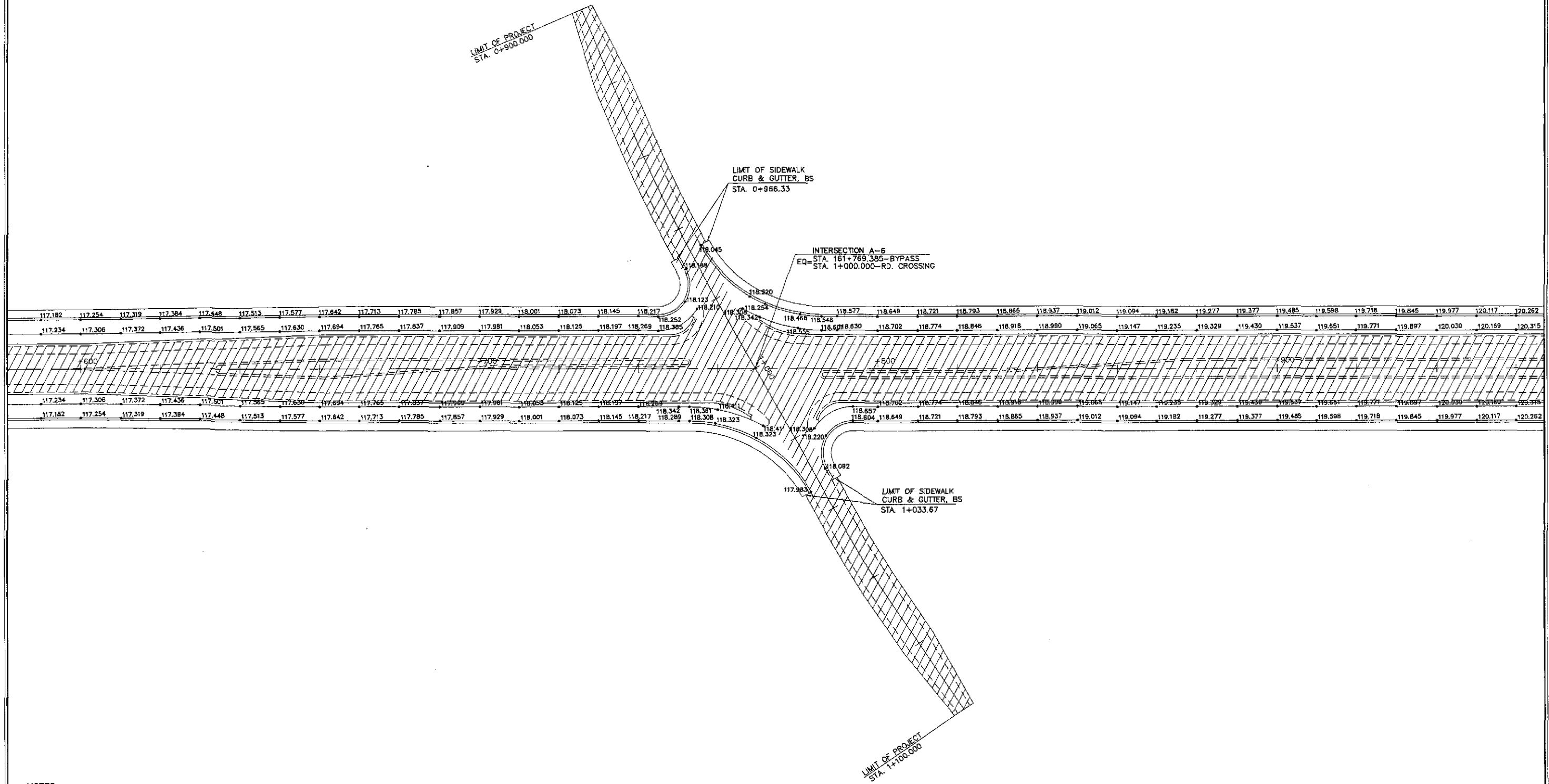
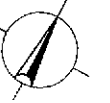
TABLE OF COORDINATES			
CTRL. POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1748835.751	499140.297	STA. 161+601.272, BEG. OF TRANSITION
2	1748851.110	499168.930	STA. 161+633.904, END OF ISLAND NOSING
3	1748908.500	499272.737	STA. 161+752.509, END OF ISLAND NOSING
4	1748904.279	499280.733	STA. 161+757.560, BEG. OF RADIUS 20
5	1748903.533	499300.916	END OF RADIUS 20
6	1748895.382	499280.015	STA. 161+752.721, BEG. OF RADIUS 34.50
7	1748894.096	499314.831	END OF RADIUS 34.50
8	1748864.659	499374.542	LIMIT OF CONSTRUCTION
9	1748901.895	499315.797	BEG. OF RADIUS 7.50
10	1748914.834	499316.275	STA. 161+793.889, END OF RADIUS 7.50
11	1748905.323	499309.473	STA. 161+782.290, BEG. OF RADIUS 8.50
12	1748919.986	499310.014	STA. 161+790.788, END OF RADIUS 8.50
13	1748921.812	499303.897	STA. 161+786.261, END OF ISLAND NOSING
14	1748966.136	499383.349	STA. 161+877.227, BEG. OF TAPER
15	1748925.033	499295.901	STA. 161+781.210, BEG. OF RADIUS 20
16	1748925.779	499275.718	STA. 161+765.325, END OF RADIUS 20
17	1748934.930	499296.620	STA. 161+786.049, BEG. OF RADIUS 35
18	1748936.215	499261.803	END OF RADIUS 35
19	1748973.561	499207.307	LIMIT OF CONSTRUCTION
20	1748928.417	499260.837	BEG. OF RADIUS 7.50
21	1748915.478	499260.360	STA. 161+744.901, END OF RADIUS 7.50
22	1748924.989	499267.162	BEG. OF RADIUS 8.50
23	1748910.325	499266.620	STA. 161+747.982, END OF RADIUS 8.50
24	1748919.105	499268.973	STA. 161+754.206, LIMIT OF SHOULDER
25	1748904.422	499293.069	STA. 161+768.499, LIMIT OF SHOULDER
26	1748911.206	499307.662	STA. 161+784.565, LIMIT OF SHOULDER
27	1748925.889	499283.565	STA. 161+770.272, LIMIT OF SHOULDER



GEOMETRIC DESIGN LAYOUT
INTERSECTION A-6 (STA. 161+769.385) - ULTIMATE STAGE
 SCALE 1:500

- NOTES:
- FOR TYPICAL ROAD CROSS-SECTIONS SEE SHT. NO. RP-13 & RP-14.
 - SHADED AREA ARE OF INITIAL STAGE.

	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :		
	DESIGNED	9/5/12	A. ORONCE	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) SAN JOSE BYPASS	AS SHOWN	SAN JOSE BYPASS INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-6 (ULTIMATE STAGE)	RI-20	
	CHECKED	9/12/12	S. S. S. S.	BUREAU OF DESIGN							
	SUBMITTED	9/12/12	M. L. M. M.	OFFICE OF THE SECRETARY							
Submitted By: DANILO C. TRAJANO, Project Director			Reviewed By: JOSEFINA M. ALAGAR, Chief, Highways Division								
			Recommended By: GILBERTO S. REYES, Dir. Director IV			Approved By: MANUEL M. BONGAN, Undersecretary			Approved By: SIMEON A. DATUMANONG, Secretary		



NOTES:

1. FIN. SPOT ELEVATIONS OF THE EDGE OF PAVEMENT AND SHOULDER PRESENTED HEREIN WERE REFERRED FROM THE CENTERLINE/BASELINE.
2. SPOT ELEVATIONS ARE AT TEN (10) METERS REGULAR INTERVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
3. FOR GEOMETRIC DESIGN LAYOUT OF INTERSECTION, SEE SHEET NO. RI-20.

PAVING PLAN

INTERSECTION A-6 (STA. 161+769.385) - ULTIMATE STAGE

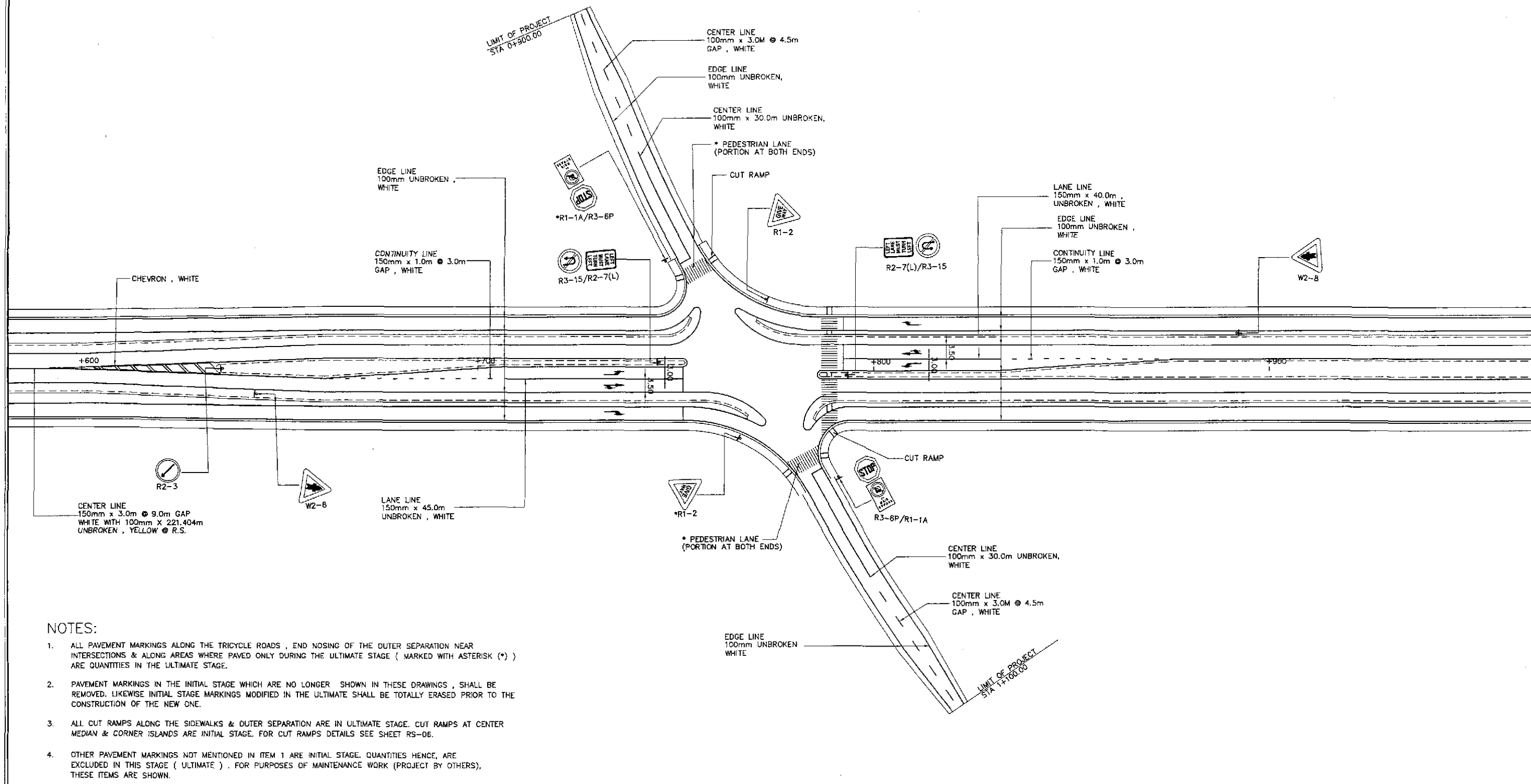
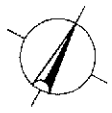


SCALE

1:500

<p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>		<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>				<p>PROJECT AND LOCATION :</p> <p>THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)</p> <p>SAN JOSE BYPASS</p>		<p>SCALE :</p> <p>1:500</p> <p>FULL SIZE A1</p>	<p>SHEET CONTENTS :</p> <p>SAN JOSE BYPASS INTERSECTION DETAIL PAVING PLAN INTERSECTION A-6 (ULTIMATE STAGE)</p>	<p>SHEET NO. :</p> <p>RI-21</p>
DESIGNED	DATE	SIGNATURE	<p>PIJHL - PWD</p> <p>Submittes By:</p> <p>DANILO C. TRAJANO Project Director</p>		<p>BUREAU OF DESIGN</p> <p>Reviewed By:</p> <p>JOSEFINA M. ALAGAR Chief, Highways Division</p>		<p>OFFICE OF THE SECRETARY</p> <p>Recommended By:</p> <p>MANUEL M. BONOAN Undersecretary</p>		<p>Approved By:</p> <p>SIMEON A. DATUMANDONG Secretary</p>	
CHECKED	DATE	SIGNATURE	<p>Submittes By:</p> <p>DANILO C. TRAJANO Project Director</p>		<p>Reviewed By:</p> <p>JOSEFINA M. ALAGAR Chief, Highways Division</p>		<p>Recommended By:</p> <p>MANUEL M. BONOAN Undersecretary</p>		<p>Approved By:</p> <p>SIMEON A. DATUMANDONG Secretary</p>	
SUBMITTED	DATE	SIGNATURE	<p>Submittes By:</p> <p>DANILO C. TRAJANO Project Director</p>		<p>Reviewed By:</p> <p>JOSEFINA M. ALAGAR Chief, Highways Division</p>		<p>Recommended By:</p> <p>MANUEL M. BONOAN Undersecretary</p>		<p>Approved By:</p> <p>SIMEON A. DATUMANDONG Secretary</p>	

KATAHIRA & ENGINEERS INTERNATIONAL
 YACHIOY ENGINEERING CO., LTD.



NOTES:

1. ALL PAVEMENT MARKINGS ALONG THE TRICYCLE ROADS, END NOSING OF THE OUTER SEPARATION NEAR INTERSECTIONS & ALONG AREAS WHERE PAVED ONLY DURING THE ULTIMATE STAGE (MARKED WITH ASTERISK (*)) ARE QUANTITIES IN THE ULTIMATE STAGE.
2. PAVEMENT MARKINGS IN THE INITIAL STAGE WHICH ARE NO LONGER SHOWN IN THESE DRAWINGS, SHALL BE REMOVED. LIKEWISE INITIAL STAGE MARKINGS MODIFIED IN THE ULTIMATE SHALL BE TOTALLY ERASED PRIOR TO THE CONSTRUCTION OF THE NEW ONE.
3. ALL CUT RAMPS ALONG THE SIDEWALKS & OUTER SEPARATION ARE IN ULTIMATE STAGE. CUT RAMPS AT CENTER MEDIAN & CORNER ISLANDS ARE INITIAL STAGE. FOR CUT RAMPS DETAILS SEE SHEET RS-06.
4. OTHER PAVEMENT MARKINGS NOT MENTIONED IN ITEM 1 ARE INITIAL STAGE. QUANTITIES HENCE, ARE EXCLUDED IN THIS STAGE (ULTIMATE) . FOR PURPOSES OF MAINTENANCE WORK (PROJECT BY OTHERS), THESE ITEMS ARE SHOWN.
5. ALL TRAFFIC SIGNS ARE EXISTING QUANTITIES (INSTALLED IN THE INITIAL STAGE) . SIGNS MARKED WITH ASTERISK (*) ARE TO BE REINSTALLED TO PROPER POSITION AS SHOWN IN THE STANDARD DRAWING. REFER SHEET NOS. RS-14 & RS-15.

**TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT
INTERSECTION A-6, STA. 161+769.385 (ULTIMATE STAGE)**

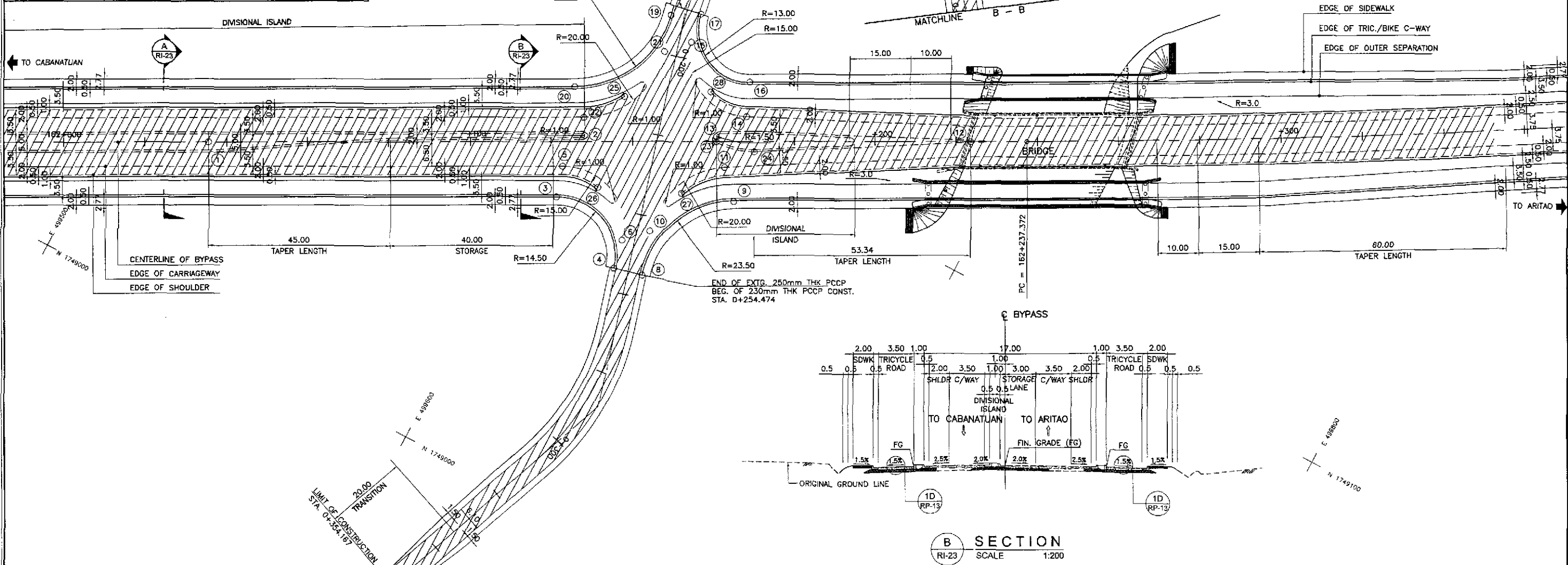
A
R1-22

SCALE

1:500

	DESIGNED	DATE	SIGNATURE		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) SAN JOSE BYPASS	SCALE : 1:500 FULL SIZE A1	SHEET CONTENTS : SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-6 (ULTIMATE STAGE)	SHEET NO. : R1-22		
	CHECKED	9/1/12	[Signature]		BUREAU OF DESIGN Submitted By: DANILO C. TRAJANO Project Director	OFFICE OF THE SECRETARY Reviewed By: JOSEFINA M. ALAGAR Chief, Highways Division	Recommended By: GILBERTO S. REYES OIC, Director IV					Recommended By: MANUEL M. BONOAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary
	SUBMITTED	9/1/12	[Signature]		TEAM LEADER	DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division					GILBERTO S. REYES OIC, Director IV	MANUEL M. BONOAN Undersecretary

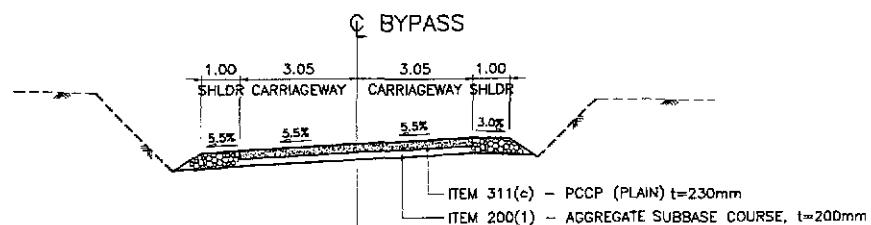
TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1749040.952	499522.815	STA. 162+035.495, BEG. OF TAPER
2	1749086.136	499603.870	STA. 162+128.280, END OF ISLAND NOSING
3	1749069.591	499604.757	STA. 162+121.240, BEG. OF RADIUS 14.50
4	1749060.757	499625.565	END OF RADIUS 14.50
5	1749076.929	499602.571	STA. 162+122.783, BEG. OF RADIUS 15
6	1749067.790	499624.097	END OF RADIUS 15
7	1748966.181	499614.120	LIMIT OF CONSTRUCTION
8	1749062.448	499632.465	BEG. OF RADIUS 23.50
9	1749087.678	499641.031	STA. 162+181.790, END OF CURB RADIUS 23.50
10	1749072.947	499628.978	BEG. OF TURNING RADIUS 20
11	1749095.596	499638.035	STA. 162+162.858, END OF TURNING RADIUS 20
12	1749129.863	499688.554	STA. 162+223.575, BEG. OF TRANSITION
13	1749101.318	499632.735	STA. 162+160.893, END OF ISLAND NOSING
14	1749109.139	499637.059	STA. 162+188.401, BEG. OF RADIUS 15
15	1749118.789	499616.034	END OF RADIUS 15
16	1749116.109	499632.025	STA. 162+167.223, BEG. OF RADIUS 13.00
17	1749125.980	499614.921	END OF RADIUS 13.00
18	1749303.446	499579.166	LIMIT OF CONSTRUCTION
19	1749122.227	499608.431	BEG. OF RADIUS 24.50
20	1749095.556	499596.045	STA. 162+125.838, END OF RADIUS 24.50
21	1749112.340	499611.388	BEG. OF RADIUS 20
22	1749089.934	499601.430	STA. 162+127.925, END OF RADIUS 20
23	1749100.073	499633.737	INT. OF TURNING RADIUS 20 & RADIUS 1.50
24	1749102.443	499642.729	STA. 162+170.232, END OF TURNING RADIUS 20
25	1749099.158	499607.956	STA. 162+138.037, LIMIT OF SHOULDER
26	1749076.375	499612.598	STA. 162+131.357, LIMIT OF SHOULDER
27	1749084.916	499631.450	STA. 162+152.007, LIMIT OF SHOULDER
28	1749110.349	499626.307	STA. 162+159.498, LIMIT OF SHOULDER



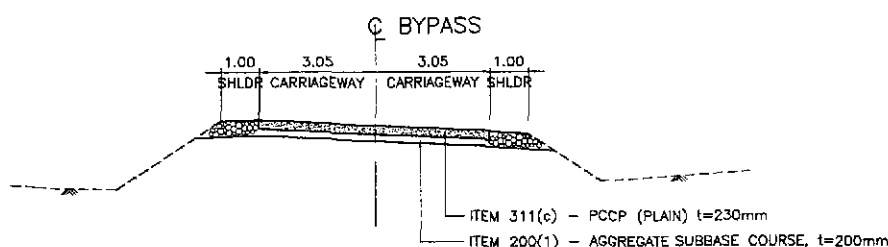
GEOMETRIC DESIGN LAYOUT
INTERSECTION A-7 (STA. 162+145.895) - ULTIMATE STAGE
 SCALE 1:500

- NOTES:
1. FOR TYPICAL ROAD CROSS-SECTIONS SEE SHT. NO. RP-13 & RP-14.
 2. SHADED AREA ARE OF INITIAL STAGE.

	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	DESIGNED	9/7/02	A. ORONCE	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) SAN JOSE BYPASS	AS SHOWN	SAN JOSE BYPASS INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-7 (ULTIMATE STAGE)	RI-23
	CHECKED	9/9/02	S. SORIANO	BUREAU OF DESIGN							
SUBMITTED	9/10/02	M. KLAWK	OFFICE OF THE SECRETARY								
			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				

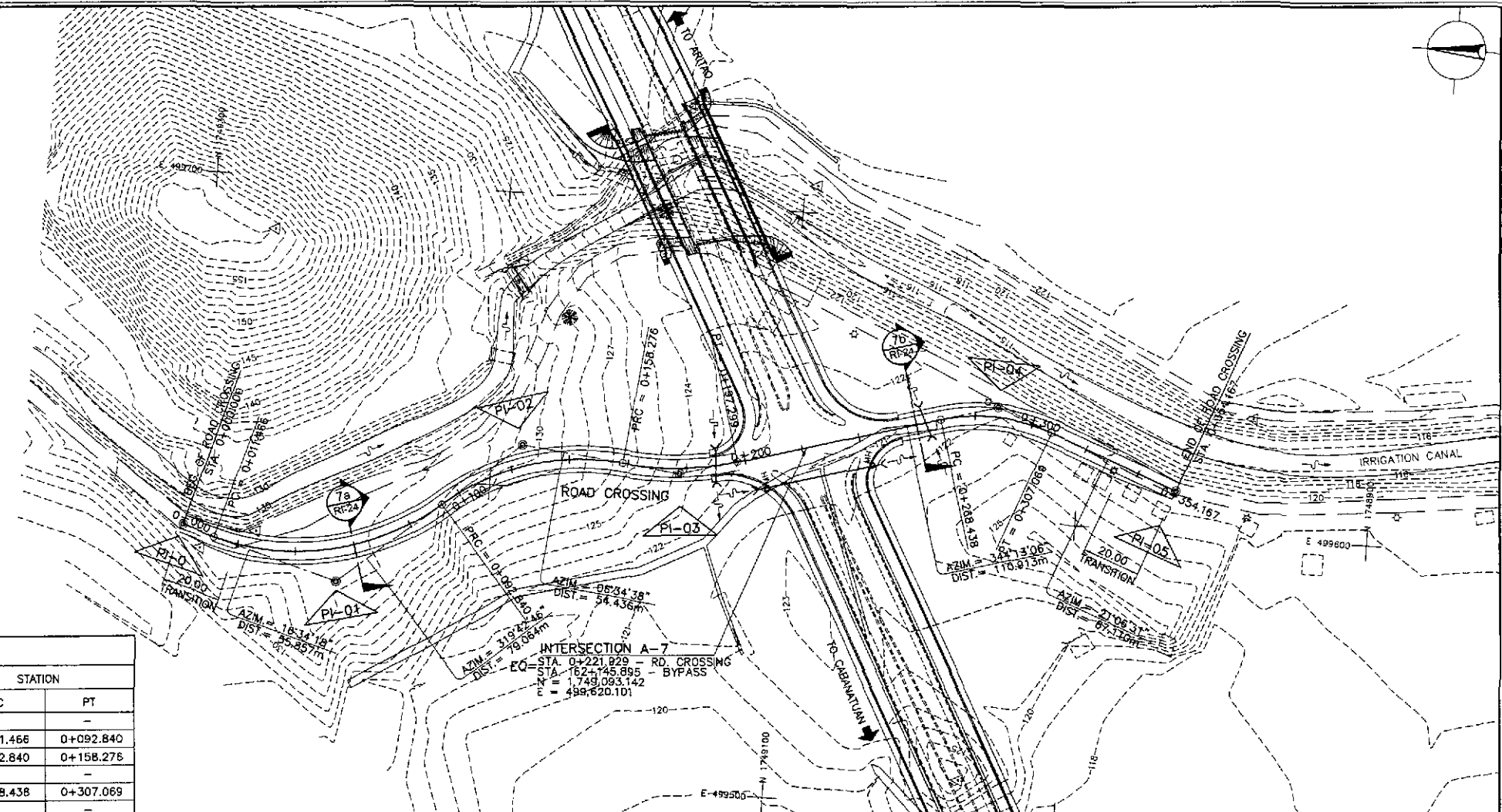


7a SECTION
RI-24 SCALE 1:100



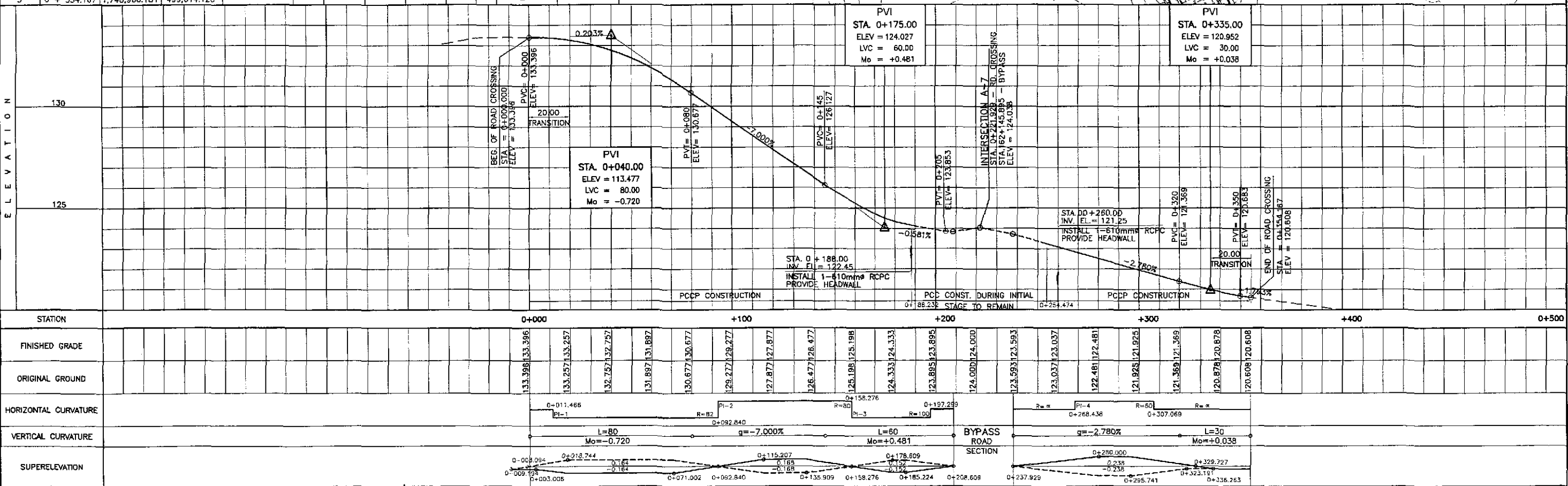
7b SECTION
RI-24 SCALE 1:100

NOTES:
GRAVEL MATERIALS LAYED DURING THE INITIAL STAGE SHALL BE EXCAVATED AND RECONSTRUCTED AS SUBBASE MATERIALS TO THICKNESS AS INDICATED IN THE SECTION AS SHOWN.

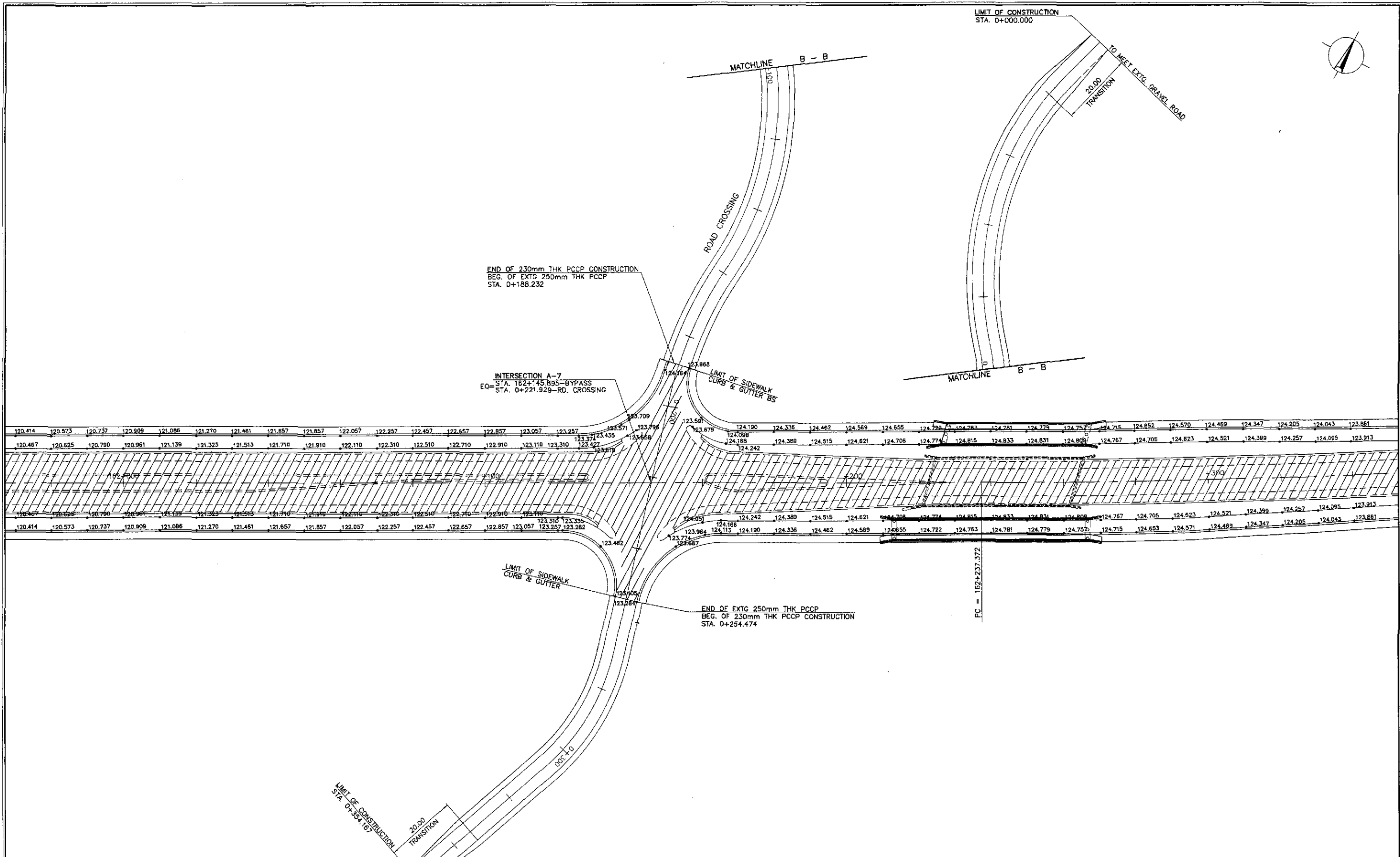


CURVE ELEMENTS

PI NO.	STATION	COORDINATES		Δ	R	T	Lc	E	e%	V (kph)	STATION	
		NORTHING	EASTING								PC	PT
0	D + 000.000	1,749,303.446	499,579.166									
1	D + 055.857	1,749,249.909	499,563.235	56°51'32"	82	44.392	81.375	11.245	5.37	30	0+011.466	0+092.840
2	D + 127.513	1,749,189.598	499,614.359	46°51'52"	80	34.673	65.435	7.191	5.50	30	0+092.840	0+158.276
3	D + 178.039	1,749,135.521	499,608.124	22°21'32"	100	19.763	39.023	1.934	5.00	30		
4	D + 288.449	1,749,028.788	499,638.289	36°53'24"	60	20.012	38.631	3.249	7.80	40	0+268.438	0+307.069
5	D + 354.167	1,748,966.181	499,614.120									



	DESIGNED	DATE	BY		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 (Pilaridel, Cebanatuan and San Jose Bypasses) SAN JOSE BYPASS	SCALE : HORIZONTAL 1:1000 VERTICAL 1:100 FULL SIZE A1	SHEET CONTENTS : PLAN, PROFILE & SECTION INTERSECTION A-7 ROAD CROSSING (STA. 0+000.000 - 0+354.167)	SHEET NO. : RI-24		
	CHECKED	DATE	BY		BUREAU OF DESIGN									
	SUBMITTED	DATE	BY		OFFICE OF THE SECRETARY									
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		



NOTES:

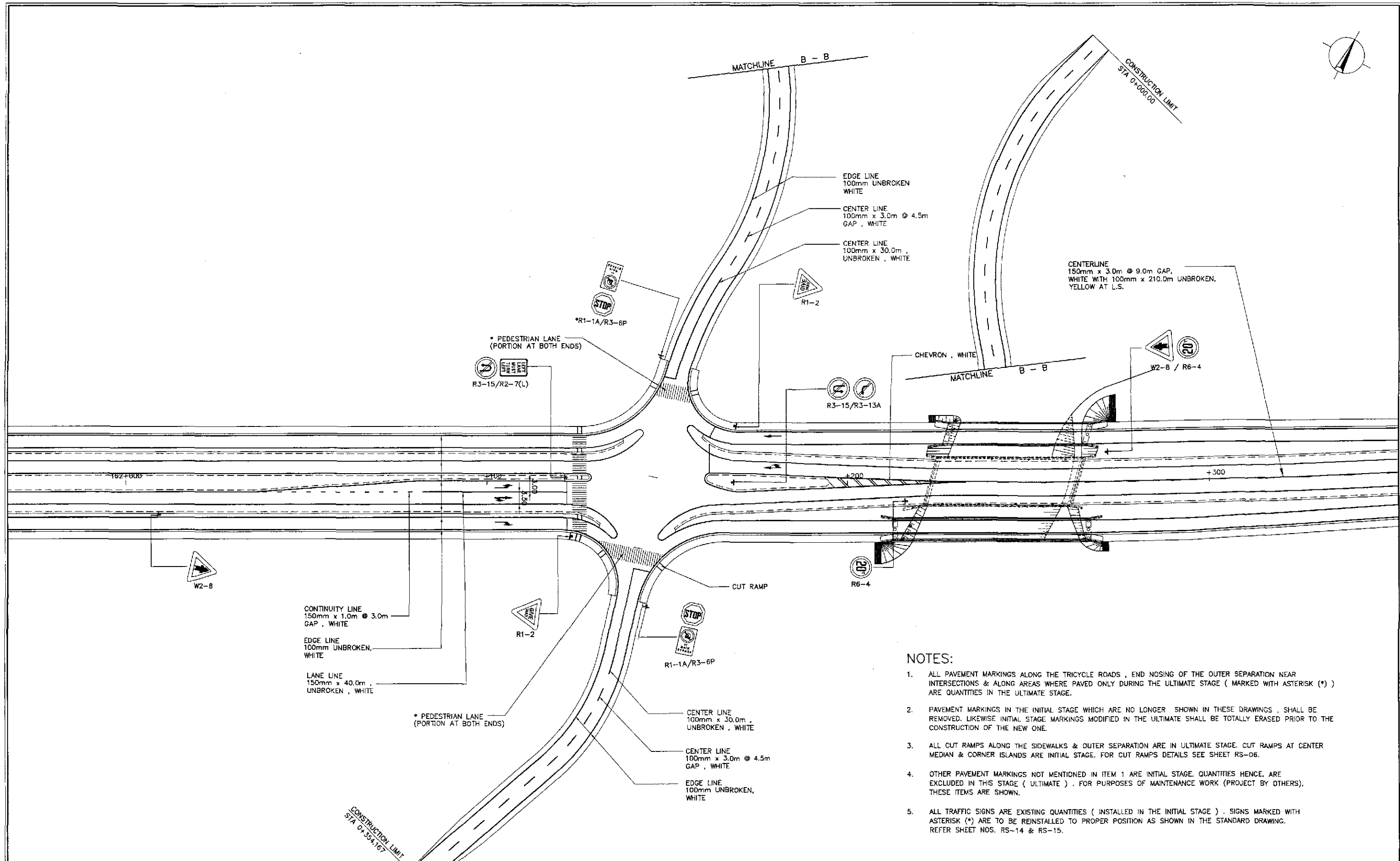
1. FIN. SPOT ELEVATIONS OF THE EDGE OF PAVEMENT AND SHOULDER PRESENTED HEREIN WERE REFERRED FROM THE CENTERLINE/BASELINE.
2. SPOT ELEVATIONS ARE AT TEN (10) METERS REGULAR INTERVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
3. FOR GEOMETRIC DESIGN LAYOUT OF INTERSECTION, SEE SHEET NO. RI-24.

PAVING PLAN
 INTERSECTION A-7 (STA. 162+145.895) - ULTIMATE STAGE



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	9/9/02	S. JOSE		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)			1:500	SAN JOSE BYPASS INTERSECTION DETAIL PAVING PLAN INTERSECTION A-7 (ULTIMATE STAGE)	RI-25
	SUBMITTED	9/11/02	Team Leader		SAN JOSE BYPASS			FULL SIZE A1		
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 : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)			SCALE :	SHEET CONTENTS :	SHEET NO. :	



- NOTES:**
1. ALL PAVEMENT MARKINGS ALONG THE TRICYCLE ROADS, END NOSING OF THE OUTER SEPARATION NEAR INTERSECTIONS & ALONG AREAS WHERE PAVED ONLY DURING THE ULTIMATE STAGE (MARKED WITH ASTERISK (*)) ARE QUANTITIES IN THE ULTIMATE STAGE.
 2. PAVEMENT MARKINGS IN THE INITIAL STAGE WHICH ARE NO LONGER SHOWN IN THESE DRAWINGS, SHALL BE REMOVED. LIKEWISE INITIAL STAGE MARKINGS MODIFIED IN THE ULTIMATE SHALL BE TOTALLY ERASED PRIOR TO THE CONSTRUCTION OF THE NEW ONE.
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**TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT
INTERSECTION A-7, STA. 162+145.895 (ULTIMATE STAGE)**

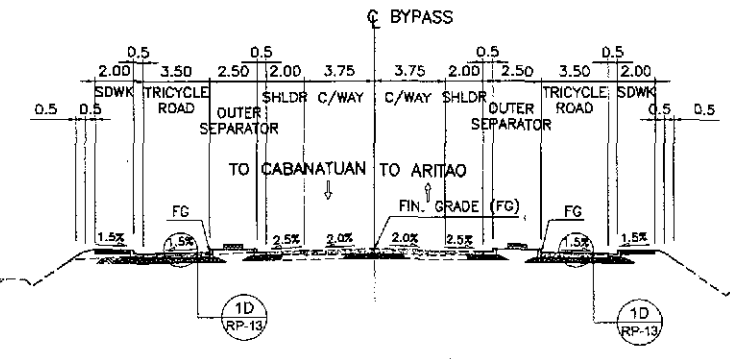
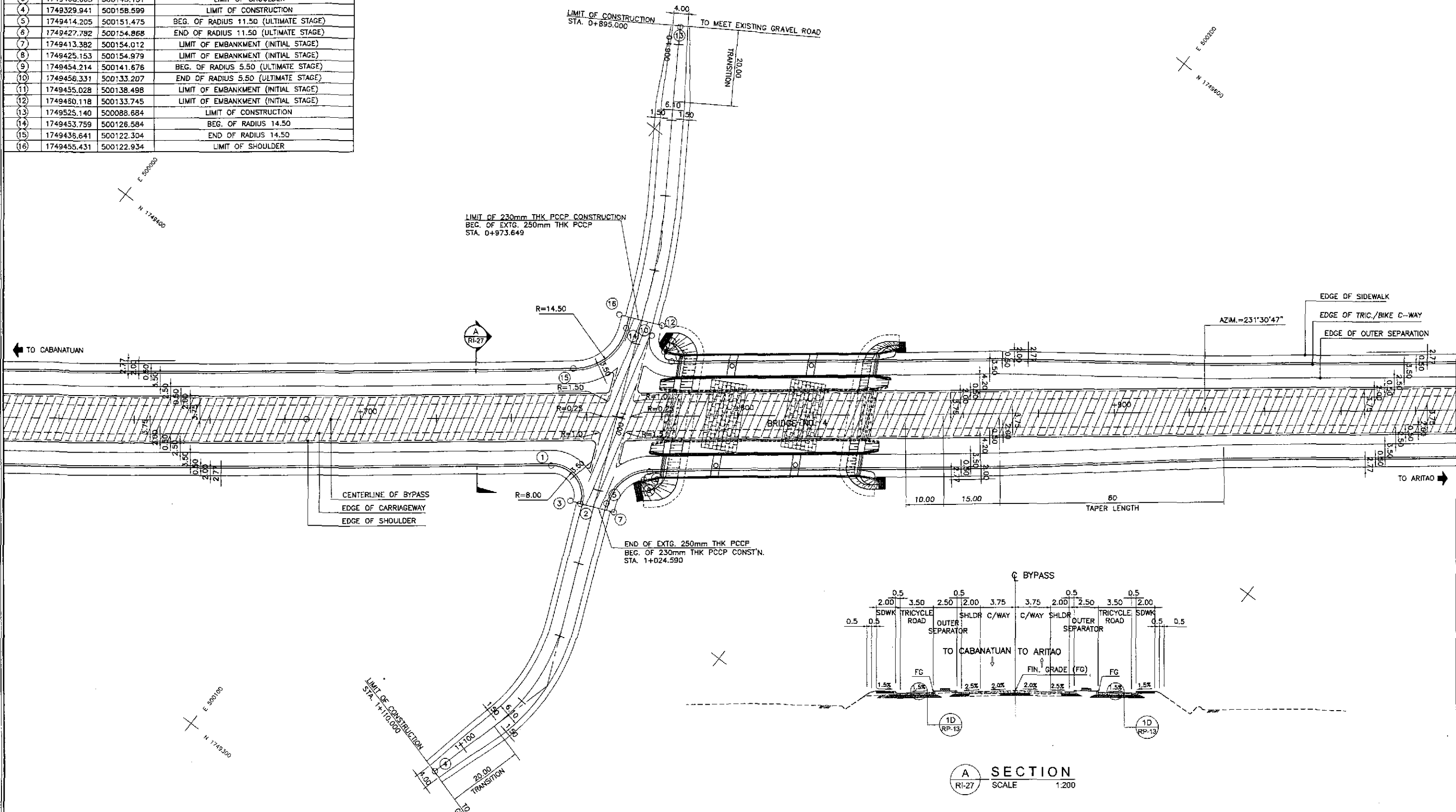
A
R1-26

SCALE

1:500

<p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>		<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>				<p>PROJECT AND LOCATION :</p> <p>THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pilaridel, Cabanatuan and San Jose Bypasses)</p>		<p>SCALE :</p> <p>1:500</p>	<p>SHEET CONTENTS :</p> <p>SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-7 (ULTIMATE STAGE)</p>	<p>SHEET NO. :</p> <p>R1-26</p>	
DESIGNED	DATE	SIGNATURE	BUREAU OF DESIGN		OFFICE OF THE SECRETARY						
CHECKED	DATE	SIGNATURE	Submitted By:	Reviewed By:	Recommended By:	Approved By:					
SUBMITTED	DATE	SIGNATURE	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				
<p>KATAHIRA & ENGINEERS INTERNATIONAL</p>		<p>YEO YACHIYO ENGINEERING CO., LTD.</p>									

TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1749412.841	500133.344	STA. 162+750.463, BEG. OF RADIUS 8
2	1749409.762	500145.663	END OF RADIUS 8
3	1749408.663	500143.131	LIMIT OF SHOULDER
4	1749329.941	500158.599	LIMIT OF CONSTRUCTION
5	1749414.205	500151.475	BEG. OF RADIUS 11.50 (ULTIMATE STAGE)
6	1749427.792	500154.868	END OF RADIUS 11.50 (ULTIMATE STAGE)
7	1749413.382	500154.012	LIMIT OF EMBANKMENT (INITIAL STAGE)
8	1749425.153	500154.979	LIMIT OF EMBANKMENT (INITIAL STAGE)
9	1749454.214	500141.676	BEG. OF RADIUS 5.50 (ULTIMATE STAGE)
10	1749456.331	500133.207	END OF RADIUS 5.50 (ULTIMATE STAGE)
11	1749455.028	500138.498	LIMIT OF EMBANKMENT (INITIAL STAGE)
12	1749480.118	500133.745	LIMIT OF EMBANKMENT (INITIAL STAGE)
13	1749525.140	500088.684	LIMIT OF CONSTRUCTION
14	1749453.759	500126.584	BEG. OF RADIUS 14.50
15	1749436.641	500122.304	END OF RADIUS 14.50
16	1749455.431	500122.934	LIMIT OF SHOULDER



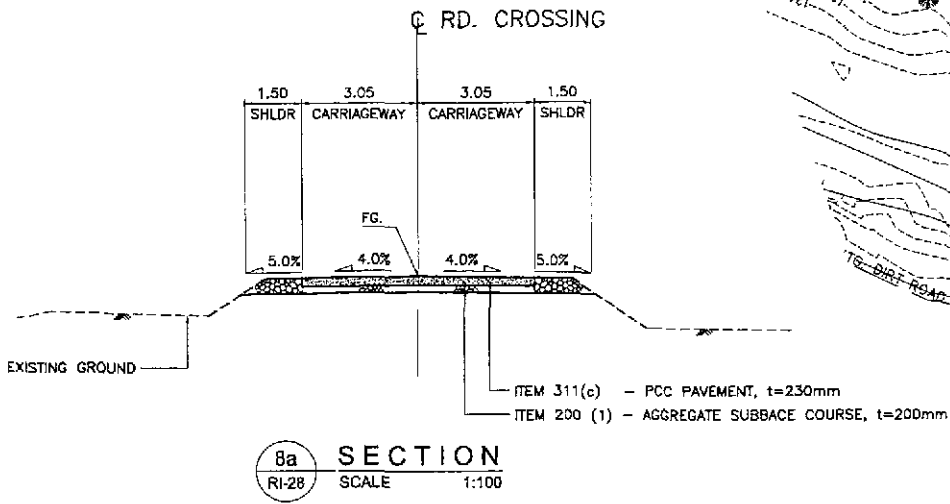
1
RI-27 SCALE

GEOMETRIC DESIGN LAYOUT
INTERSECTION A-8 (STA. 162+768.000) - ULTIMATE STAGE
1:500

NOTES:
1. FOR TYPICAL ROAD CROSS-SECTIONS SEE SHT. NO. RP-13 & RP-14.
2. SHADED AREA ARE OF INITIAL STAGE.

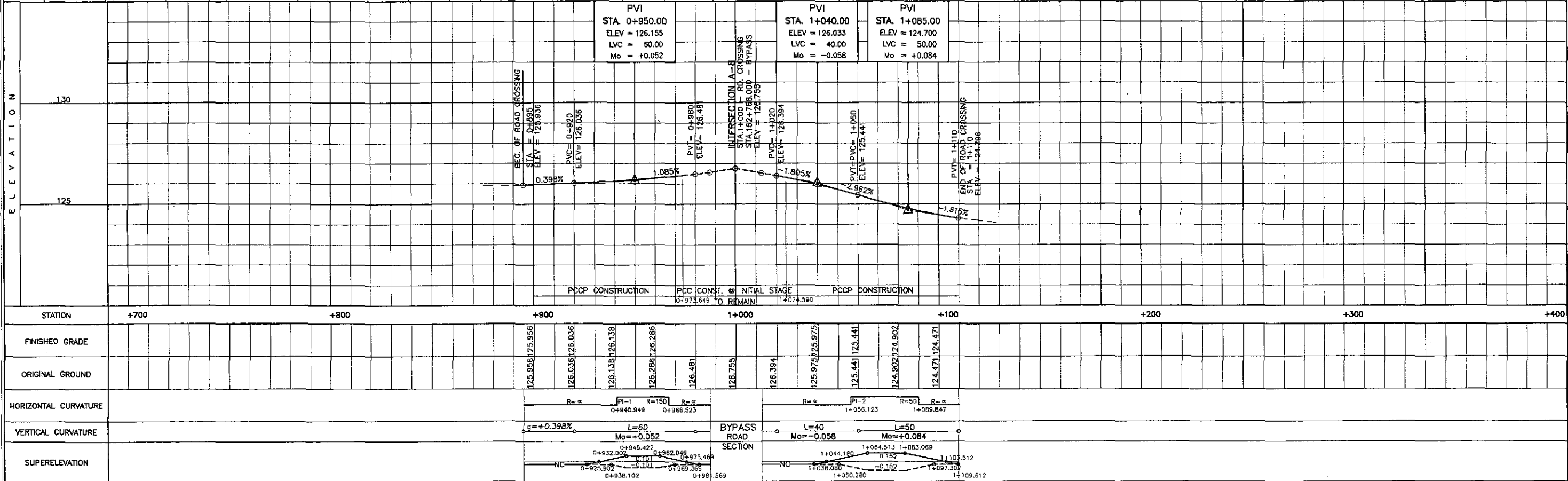
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	9/9/02	S. GONZALES		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	SAN JOSE BYPASS INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-8 (ULTIMATE STAGE)	RI-27
	SUBMITTED	9/11/02	M. K. K. K.		BUREAU OF DESIGN				SAN JOSE BYPASS	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	Approved By:	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary		

NOTE:
GRAVEL MATERIALS LAYED DURING THE INITIAL STAGE SHALL BE EXCAVATED AND RECONSTRUCTED AS SUBBASE MATERIALS TO THICKNESS AS INDICATED IN THE SECTION AS SHOWN.

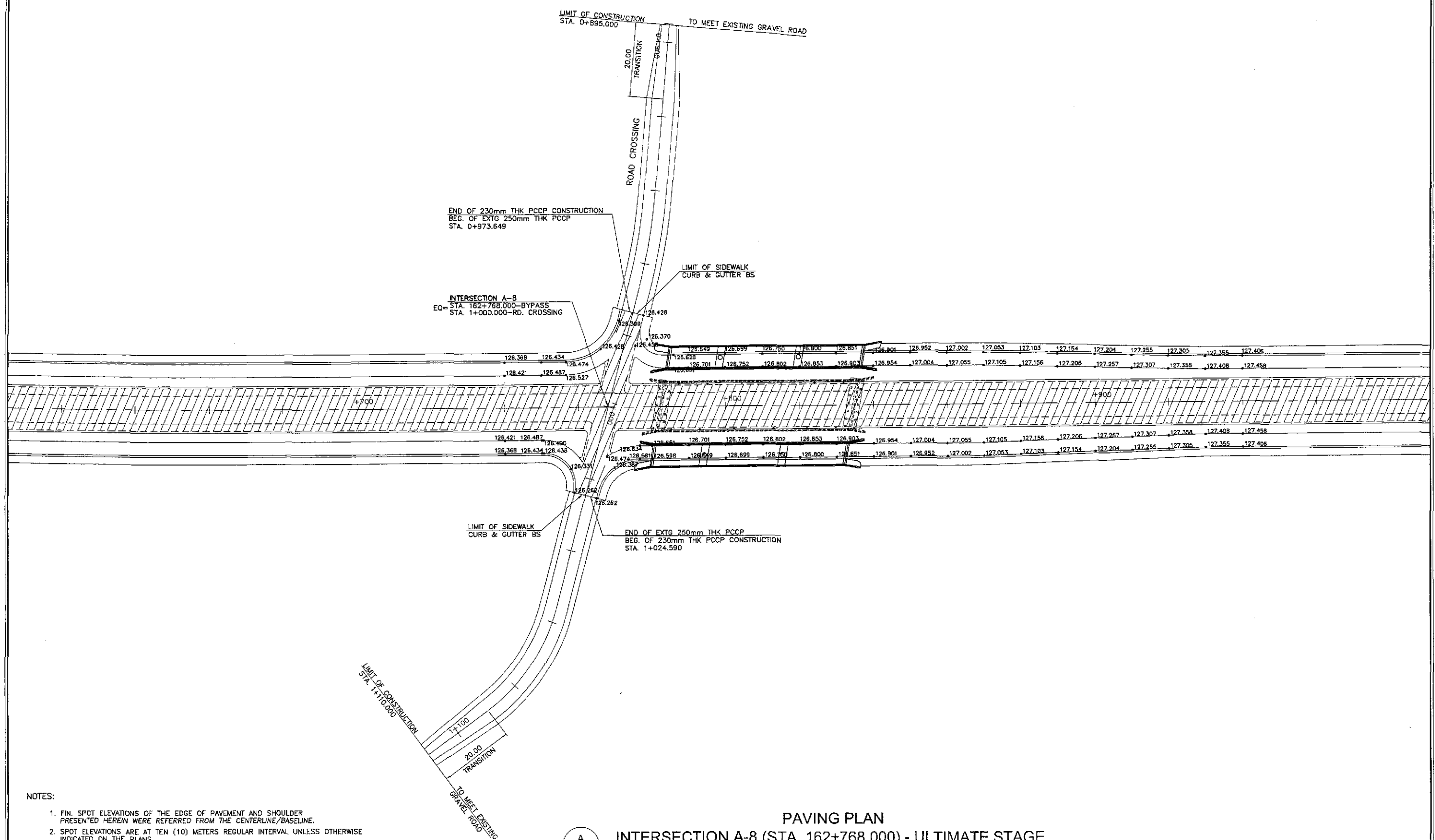
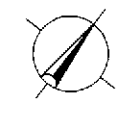


CURVE ELEMENTS

PI NO.	STATION	COORDINATES		Δ	R	T	Lc	E	e%	V (kph)	STATION	
		NORTHING	EASTING								PC	PT
0	0 + 895.000	1,749,525.375	500,088.530									
1	0 + 953.767	1,749,476.208	500,120.718	09°46'07"	150	12.818	25.574	0.547	3.30	30	0+940.949	0+966.523
2	1 + 074.426	1,749,365.450	500,168.747	36°55'23"	50	16.692	32.221	2.713	5.00	30	1+057.735	1+089.957
3	1 + 110.000	1,749,329.727	500,160.184									



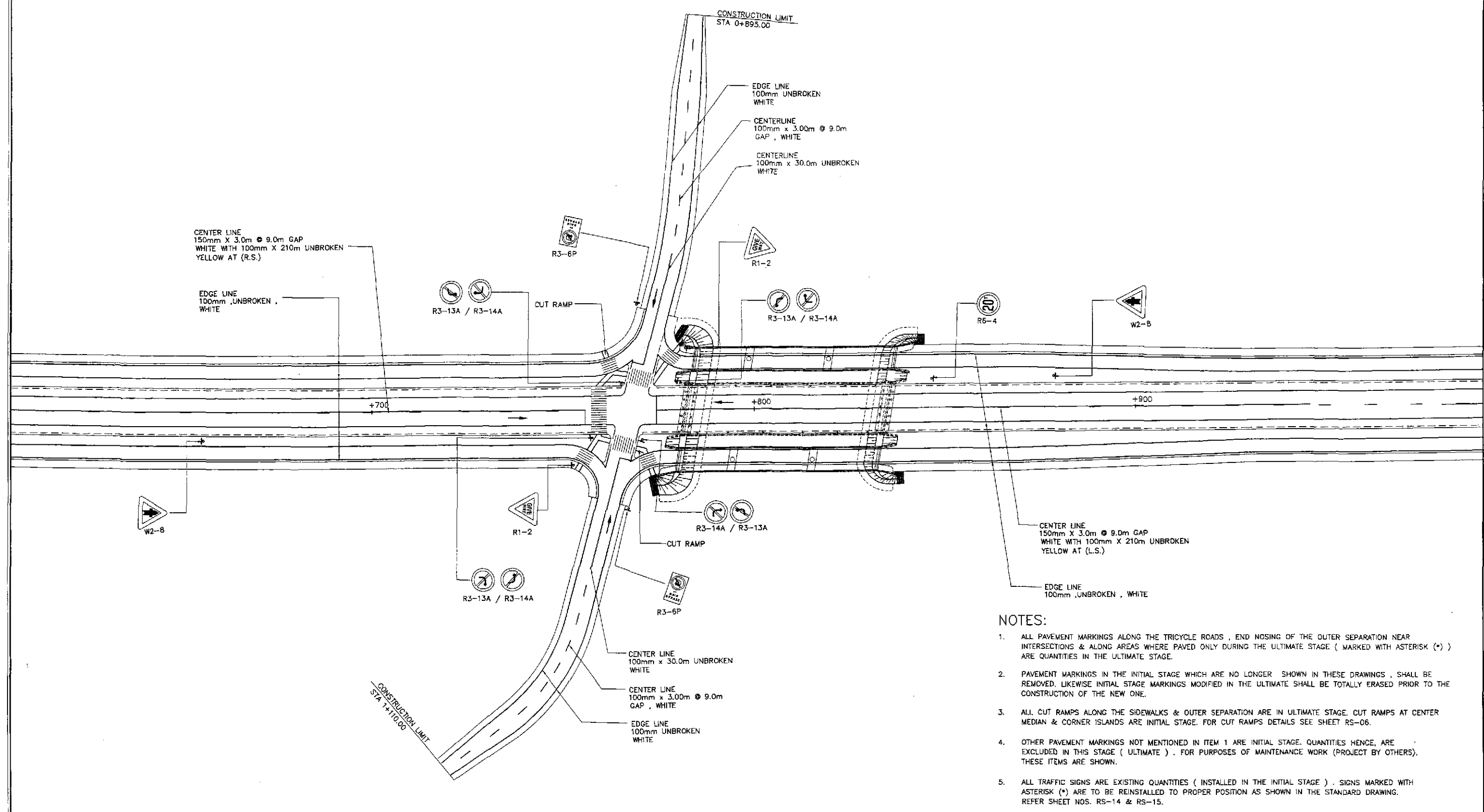
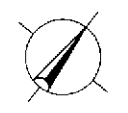
	DATE	SIGNATURE					PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	DESIGNED	9/1/12	[Signature]	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) SAN JOSE BYPASS	HORIZONTAL 1:1000 VERTICAL 1:100 FULL SIZE A1	PLAN, PROFILE & SECTION INTERSECTION A-8 ROAD CROSSING (STA. 0+895.000 - 1+110.000)	RI-28
	CHECKED	9/1/12	[Signature]	BUREAU OF DESIGN OFFICE OF THE SECRETARY							
	SUBMITTED	9/1/12	[Signature]	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							
Submitted By: [Signature] Approved By: [Signature]											



- NOTES:
1. FIN. SPOT ELEVATIONS OF THE EDGE OF PAVEMENT AND SHOULDER PRESENTED HEREIN WERE REFERRED FROM THE CENTERLINE/BASELINE.
 2. SPOT ELEVATIONS ARE AT TEN (10) METERS REGULAR INTERVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
 3. FOR GEOMETRIC DESIGN LAYOUT OF INTERSECTION, SEE SHEET NO. RI-28.

A
PAVING PLAN
INTERSECTION A-8 (STA. 162+768.000) - ULTIMATE STAGE
 RI-29 SCALE 1:500

	DATE: 9/6/12 DESIGNED: R. 60 CHECKED: 9/9/12 S. 3000 SUBMITTED: 9/10/12 M. BUNDA TEAM LEADER	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 (Palarid, Cabanatuan and San Jose Bypasses) SAN JOSE BYPASS	SCALE : 1:500 FULL SIZE A1	SHEET CONTENTS : SAN JOSE BYPASS INTERSECTION DETAIL PAVING PLAN INTERSECTION A-8 (ULTIMATE STAGE)	SHEET NO. : RI-29				
	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. BONGAN Undersecretary		Approved By: SIMEON A. DATUMANONG Secretary	



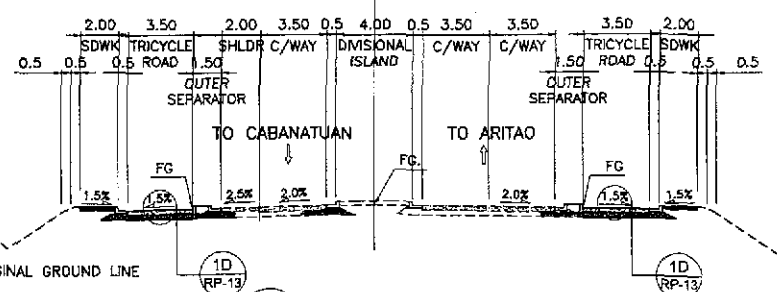
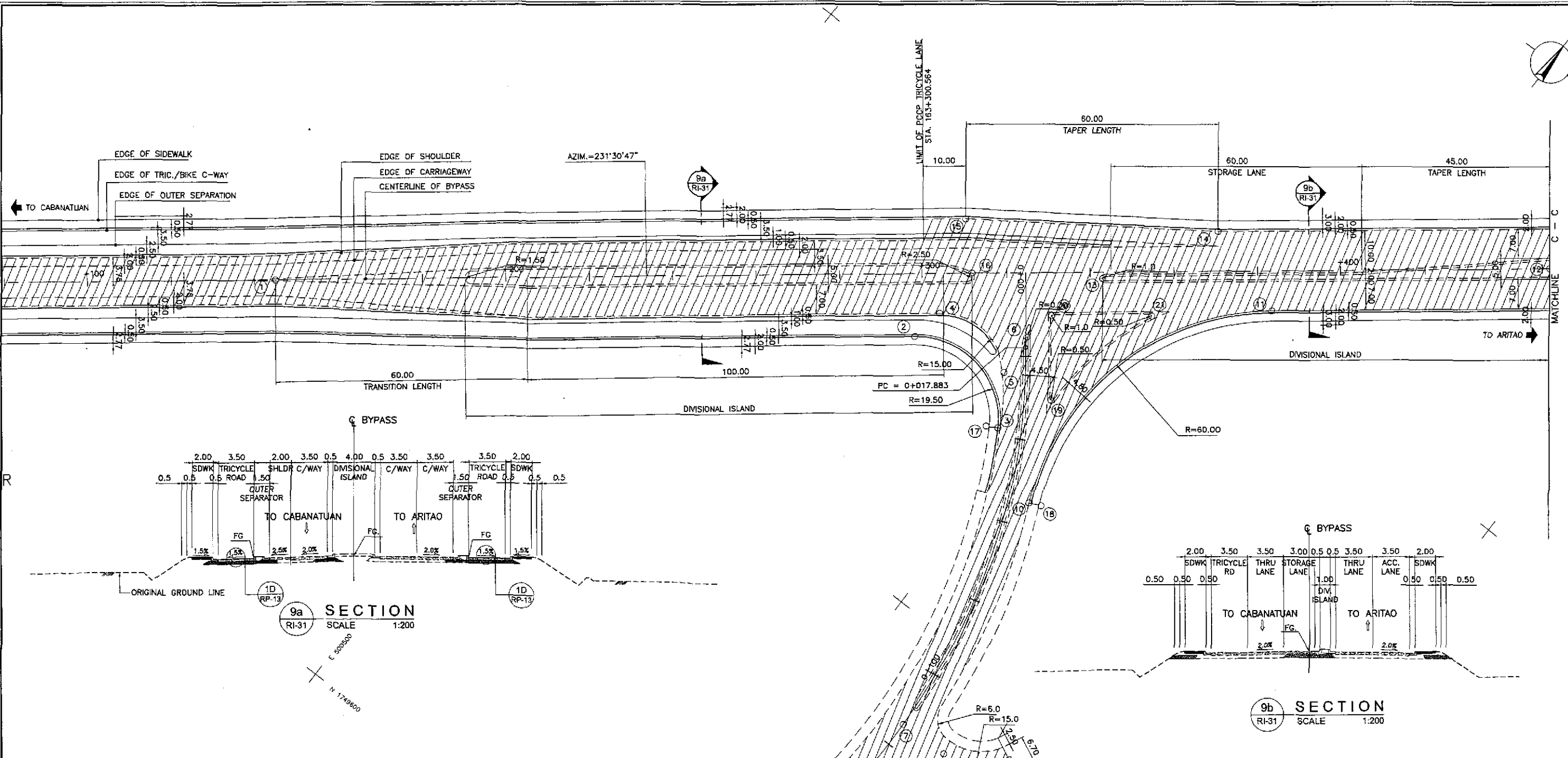
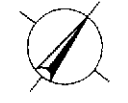
- NOTES:**
1. ALL PAVEMENT MARKINGS ALONG THE TRICYCLE ROADS, END NOSING OF THE OUTER SEPARATION NEAR INTERSECTIONS & ALONG AREAS WHERE PAVED ONLY DURING THE ULTIMATE STAGE (MARKED WITH ASTERISK (*)) ARE QUANTITIES IN THE ULTIMATE STAGE.
 2. PAVEMENT MARKINGS IN THE INITIAL STAGE WHICH ARE NO LONGER SHOWN IN THESE DRAWINGS, SHALL BE REMOVED. LIKEWISE INITIAL STAGE MARKINGS MODIFIED IN THE ULTIMATE SHALL BE TOTALLY ERASED PRIOR TO THE CONSTRUCTION OF THE NEW ONE.
 3. ALL CUT RAMPS ALONG THE SIDEWALKS & OUTER SEPARATION ARE IN ULTIMATE STAGE. CUT RAMPS AT CENTER MEDIAN & CORNER ISLANDS ARE INITIAL STAGE. FOR CUT RAMPS DETAILS SEE SHEET RS-06.
 4. OTHER PAVEMENT MARKINGS NOT MENTIONED IN ITEM 1 ARE INITIAL STAGE. QUANTITIES HENCE, ARE EXCLUDED IN THIS STAGE (ULTIMATE). FOR PURPOSES OF MAINTENANCE WORK (PROJECT BY OTHERS), THESE ITEMS ARE SHOWN.
 5. ALL TRAFFIC SIGNS ARE EXISTING QUANTITIES (INSTALLED IN THE INITIAL STAGE). SIGNS MARKED WITH ASTERISK (*) ARE TO BE REINSTALLED TO PROPER POSITION AS SHOWN IN THE STANDARD DRAWING. REFER SHEET NOS. RS-14 & RS-15.

**TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT
INTERSECTION A-8, STA. 162+768.000 (ULTIMATE STAGE)**

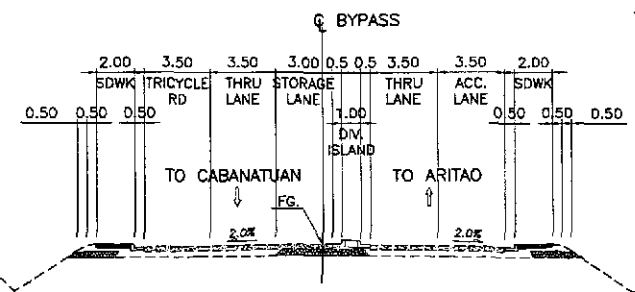
A
R1-30

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	9/19/12	[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	SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-8 (ULTIMATE STAGE)	R1-30
	SUBMITTED	9/10/12	[Signature]		OFFICE OF THE SECRETARY				SAN JOSE BYPASS	FULL SIZE A1		
					Submitted By: DANILO C. TRAJANO Project Director	Reviewed By: JOSEFINA M. ALACAR Chief, Highways Division	Recommended By: GILBERTO S. REYES OIC, Director IV	Recommended By: MANUEL M. BONDAN Undersecretary	Approved By: SIMEDON A. DATUMANONG Secretary			



9a SECTION
RI-31
SCALE 1:200



9b SECTION
RI-31
SCALE 1:200

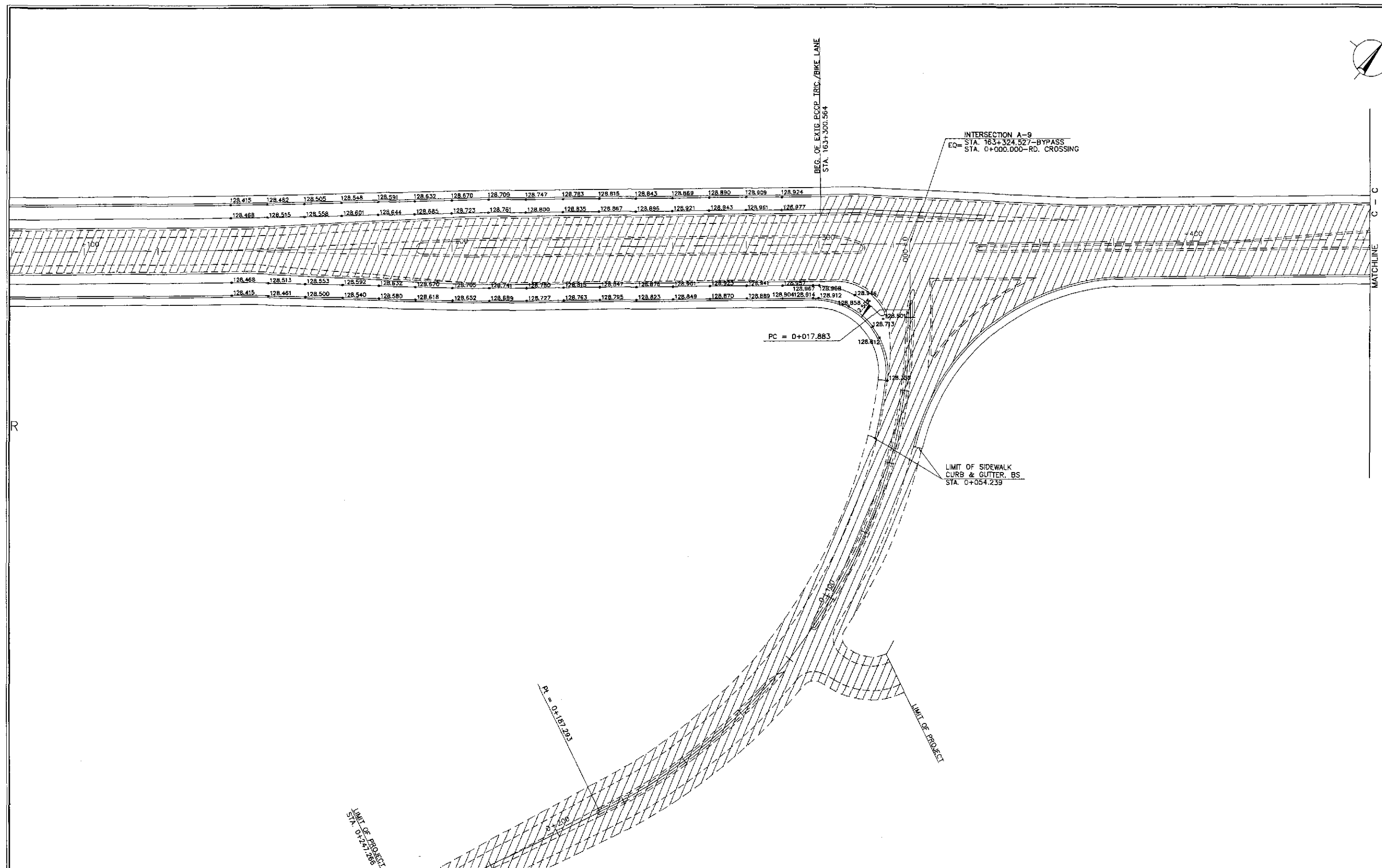
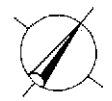
TABLE OF COORDINATES			
CONTROL POINT	COORDINATES		REMARKS
	NORTHING	EASTING	
1	1749668.434	500434.332	STA. 163+145.126, BEG. OF TRANSITION
2	1749752.032	500563.581	STA. 163+298.322, BEG. OF SHLDR. RADIUS 19.50
3	1749746.768	500592.457	END OF SHLDR. RADIUS 19.50
4	1749760.034	500564.807	STA. 163+304.262, BEG. OF TURNING RADIUS 15
5	1749758.183	500585.437	END OF TURNING RADIUS 15
6	1749768.267	500584.586	STA. 163+324.867, END OF ISLAND NOSING
7	1749677.230	500618.421	STA. 0+114.150, C.L. INTERSECTION OF ACCESS RD.
8	1749677.592	500630.426	BEG. OF C.L. RADIUS 15
9	1749685.959	500643.432	LIMIT OF CONSTRUCTION
10	1749737.303	500609.503	BEG. OF RADIUS 60
11	1749809.253	500626.713	STA. 163+383.349, END OF RADIUS 60
12	1749858.186	500672.995	STA. 163+450.030, BEG./END OF TAPER
13	1749790.422	500590.174	STA. 163+343.030, END OF ISLAND NOSING
14	1749816.208	500604.931	STA. 163+370.628, BEG. OF TAPER
15	1749781.607	500555.788	STA. 163+310.628, END OF TAPER
16	1749771.232	500585.573	STA. 163+311.829, END OF ISLAND NOSING
17	1749745.352	500590.088	LIMIT OF SHOULDER
18	1749738.557	500612.239	LIMIT OF SHOULDER
19	1749759.863	500598.436	END OF ISLAND NOSING
20	1749775.888	500586.048	END OF ISLAND NOSING
21	1749790.732	500604.843	END OF ISLAND NOSING

1
RI-31
SCALE 1:500

GEOMETRIC DESIGN LAYOUT
INTERSECTION A-9 (STA. 163+260.000) - ULTIMATE STAGE

- NOTES:
- FOR TYPICAL ROAD CROSS-SECTIONS SEE SHT. NO. RP-13 & RP-14.
 - SHADED AREA ARE OF INITIAL STAGE.

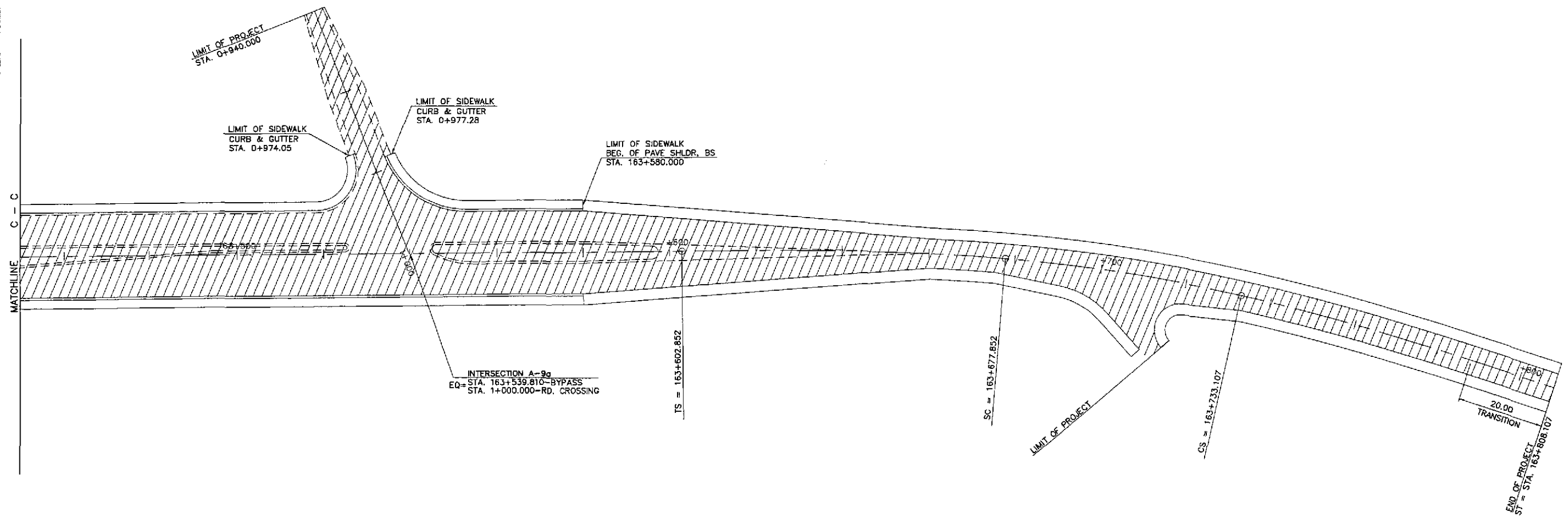
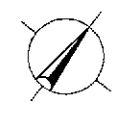
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN		PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)		SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : SAN JOSE BYPASS INTERSECTION DETAIL GEOMETRIC DESIGN LAYOUT INTERSECTION A-9 (ULTIMATE STAGE)	SHEET NO. : RI-31
DESIGNED : 9/2/02 CHECKED : 7/9/02 SUBMITTED : 7/10/02	DATE : SIGNATURE : PROJECT DIRECTOR	REVIEWED BY : CHIEF, HIGHWAYS DIVISION	RECOMMENDED BY : OIC, DIRECTOR IV	APPROVED BY : SECRETARY	SAN JOSE BYPASS			



- NOTES:
1. FIN. SPOT ELEVATIONS OF THE EDGE OF PAVEMENT AND SHOULDER PRESENTED HEREIN WERE REFERRED FROM THE CENTERLINE/BASELINE.
 2. SPOT ELEVATIONS ARE AT TEN (10) METERS REGULAR INTERVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
 3. FOR GEOMETRIC DESIGN LAYOUT OF INTERSECTION, SEE SHEET NO. RI-31 & RI-32.

A
PAVING PLAN
INTERSECTION A-9 (STA. 163+324.527) - ULTIMATE STAGE
 RI-33 SCALE 1:500

		DATE	SIGNATURE	 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	DESIGNED	9/1/02	<i>[Signature]</i>			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Palarid, Cabanatuan and San Jose Bypasses)	1:500	SAN JOSE BYPASS INTERSECTION DETAIL PAVING PLAN INTERSECTION A-9 (ULTIMATE STAGE)	RI-33
	CHECKED	9/9/02	<i>[Signature]</i>			SAN JOSE BYPASS	FULL SIZE A1		
SUBMITTED	9/10/02	<i>[Signature]</i>	TEAM LEADER	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. BONJAN Undersecretary	Approved By: SINEON A. DATUMANONG Secretary	

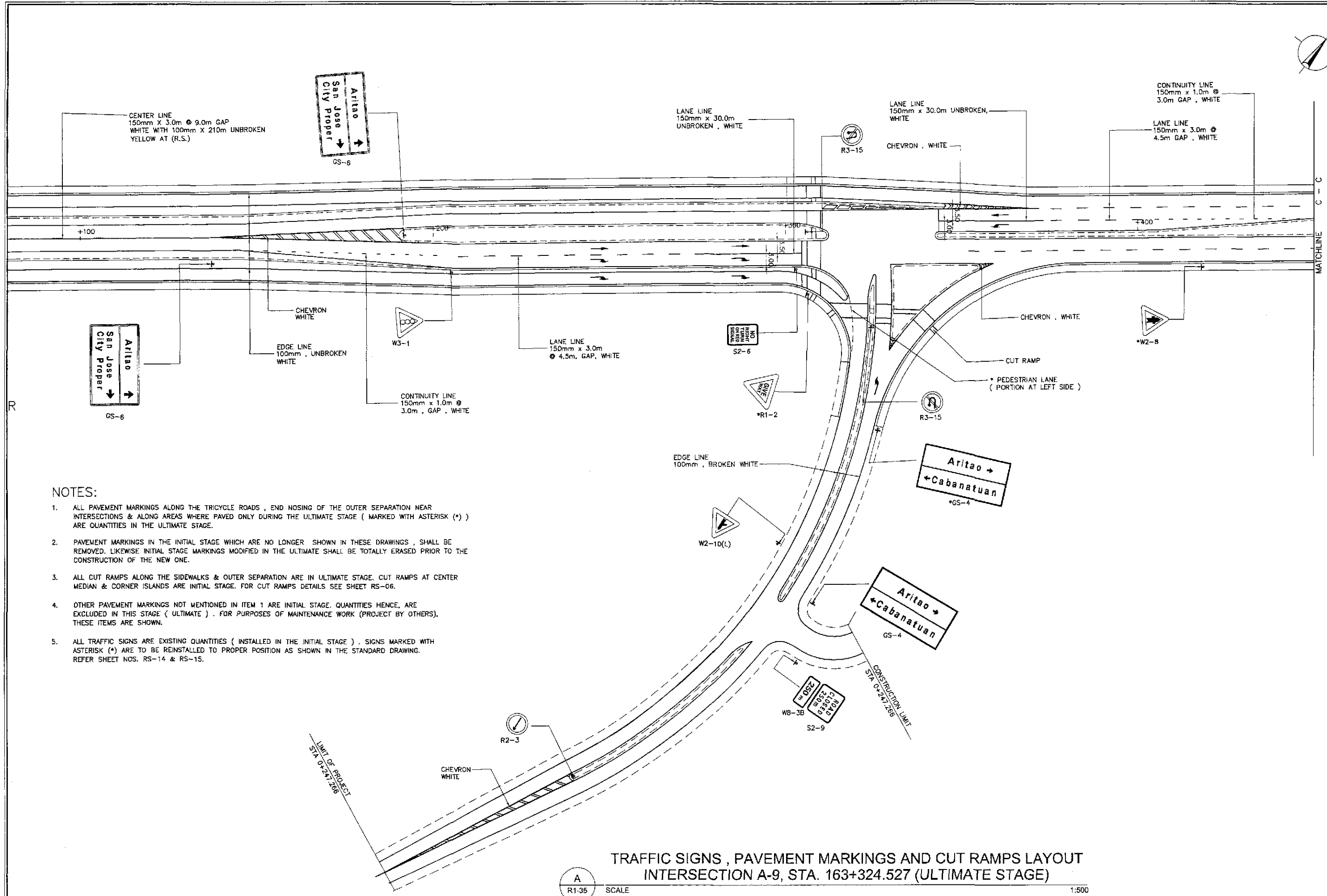


NOTES:

1. FIN. SPOT ELEVATIONS OF THE EDGE OF PAVEMENT AND SHOULDER PRESENTED HEREIN WERE REFERRED FROM THE CENTERLINE/BASELINE.
2. SPOT ELEVATIONS ARE AT TEN (10) METERS REGULAR INTERVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
3. FOR GEOMETRIC DESIGN LAYOUT OF INTERSECTION, SEE SHEET NO. RI-31 & RI-32.

A
PAVING PLAN
INTERSECTION A-9a (STA. 163+539.810) - ULTIMATE STAGE
 SCALE 1:500

		DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	DESIGNED	9/7/02	<i>[Signature]</i>		P.J.M. - PMD	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) SAN JOSE BYPASS	1:500 FULL SIZE A1	SAN JOSE BYPASS INTERSECTION DETAIL PAVING PLAN INTERSECTION A-9a (ULTIMATE STAGE)	RI-34	
	CHECKED	9/19/02	<i>[Signature]</i>		Submitted By:	Reviewed By:	Recommended By:					Approved By:
SUBMITTED	9/16/02	<i>[Signature]</i>	DANILO C. TRAJANO Project Director	JOSEFINA M. ALAGAR Chief, Highways Division	GILBERTO S. REYES DIC, Director IV	MANUEL M. BONDAN Undersecretary	SIMEDN A. DATUMANONG Secretary					



NOTES:

1. ALL PAVEMENT MARKINGS ALONG THE TRICYCLE ROADS, END NOSING OF THE OUTER SEPARATION NEAR INTERSECTIONS & ALONG AREAS WHERE PAVED ONLY DURING THE ULTIMATE STAGE (MARKED WITH ASTERISK (*)) ARE QUANTITIES IN THE ULTIMATE STAGE.
2. PAVEMENT MARKINGS IN THE INITIAL STAGE WHICH ARE NO LONGER SHOWN IN THESE DRAWINGS, SHALL BE REMOVED. LIKEWISE INITIAL STAGE MARKINGS MODIFIED IN THE ULTIMATE SHALL BE TOTALLY ERASED PRIOR TO THE CONSTRUCTION OF THE NEW ONE.
3. ALL CUT RAMPS ALONG THE SIDEWALKS & OUTER SEPARATION ARE IN ULTIMATE STAGE. CUT RAMPS AT CENTER MEDIAN & CORNER ISLANDS ARE INITIAL STAGE. FOR CUT RAMPS DETAILS SEE SHEET RS-06.
4. OTHER PAVEMENT MARKINGS NOT MENTIONED IN ITEM 1 ARE INITIAL STAGE. QUANTITIES HENCE, ARE EXCLUDED IN THIS STAGE (ULTIMATE). FOR PURPOSES OF MAINTENANCE WORK (PROJECT BY OTHERS), THESE ITEMS ARE SHOWN.
5. ALL TRAFFIC SIGNS ARE EXISTING QUANTITIES (INSTALLED IN THE INITIAL STAGE). SIGNS MARKED WITH ASTERISK (*) ARE TO BE REINSTALLED TO PROPER POSITION AS SHOWN IN THE STANDARD DRAWING. REFER SHEET NOS. RS-14 & RS-15.

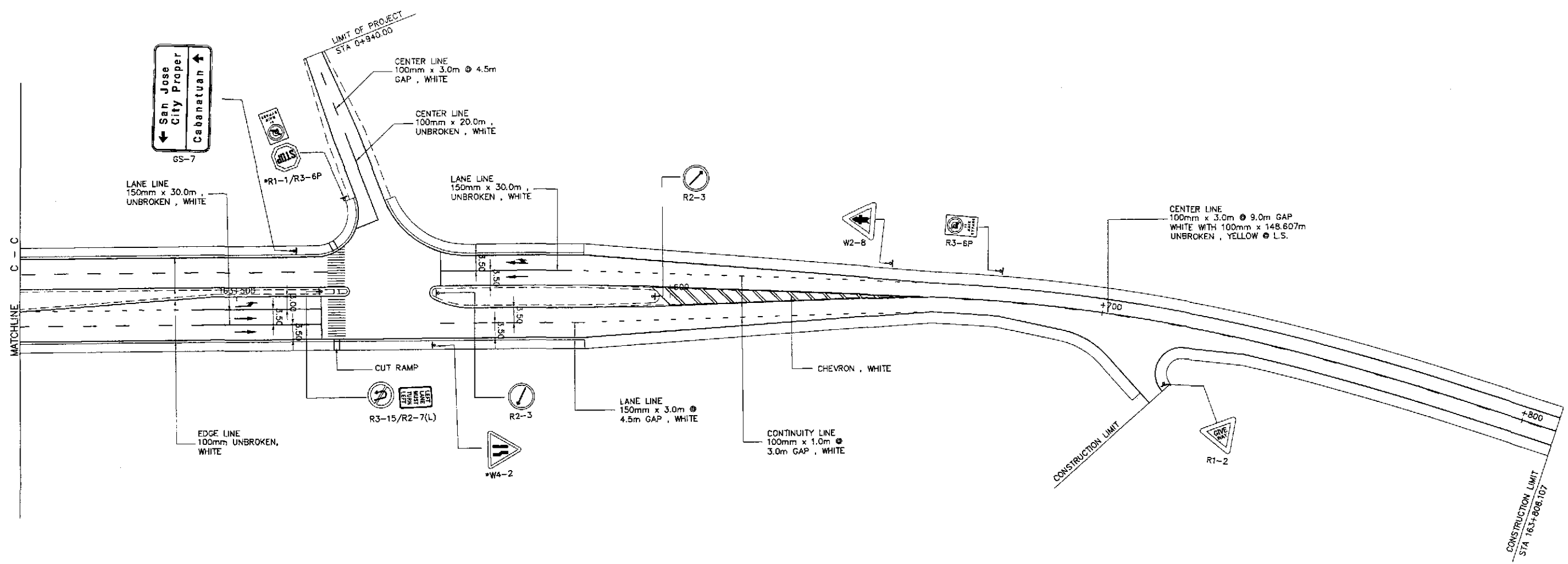
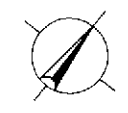
**TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT
INTERSECTION A-9, STA. 163+324.527 (ULTIMATE STAGE)**

A
R1-35

SCALE

1:500

	DESIGNED	DATE	SIGNATURE		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) SAN JOSE BYPASS	SCALE :	SHEET CONTENTS : SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-9 (ULTIMATE STAGE)	SHEET NO. :	
	CHECKED	9/19/02	[Signature]		BUREAU OF DESIGN					1:500		FULL SIZE A1	R1-35
	SUBMITTED	9/11/02	[Signature]		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						



**TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT
INTERSECTION A-9a, STA. 163+539.810 (ULTIMATE STAGE)**

A
R1-36

SCALE

1:500

	DESIGNED	DATE	SIGNATURE	<p align="center">REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	9/9/02	<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)			1:500	SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-9a (ULTIMATE STAGE)	R1-36
	SUBMITTED	9/18/02	<i>[Signature]</i>		OFFICE OF THE SECRETARY	SAN JOSE BYPASS			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				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) SAN JOSE BYPASS			SCALE : 1:500 FULL SIZE A1	SHEET CONTENTS : SAN JOSE BYPASS TRAFFIC SIGNS, PAVEMENT MARKINGS AND CUT RAMPS LAYOUT INTERSECTION A-9a (ULTIMATE STAGE)	SHEET NO. : R1-36		