JAPAN INTERNATIONAL
COOPERATION AGENCY

DIRECTORATE GENERAL OF HIGHWAY
MINISTRY OF PUBLIC WORKS
REPUBLIC OF INDONESIA

ROADS

KATAHIRA & ENGINEERS INTERNATIONAL

JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI
	Sign:	Sign:	Sign:
	Date:	Date:	Date:

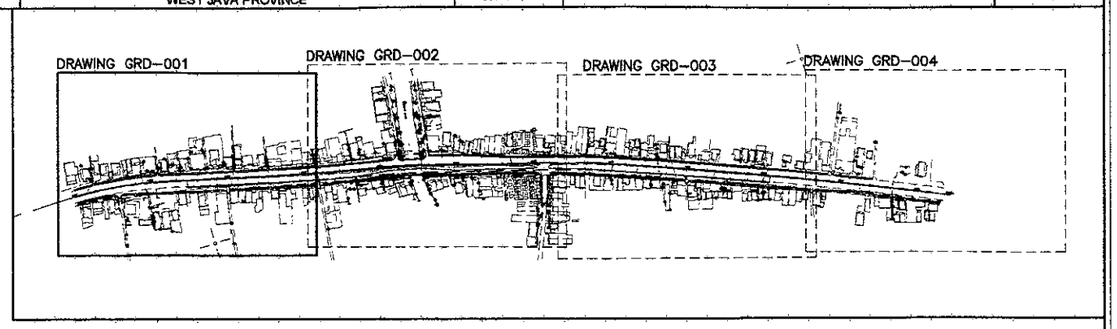
REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

APPROVED BY: Ir. HERRY VAZA M,Eng.Sc — NIP. : 110038400 — Sign: — Date:

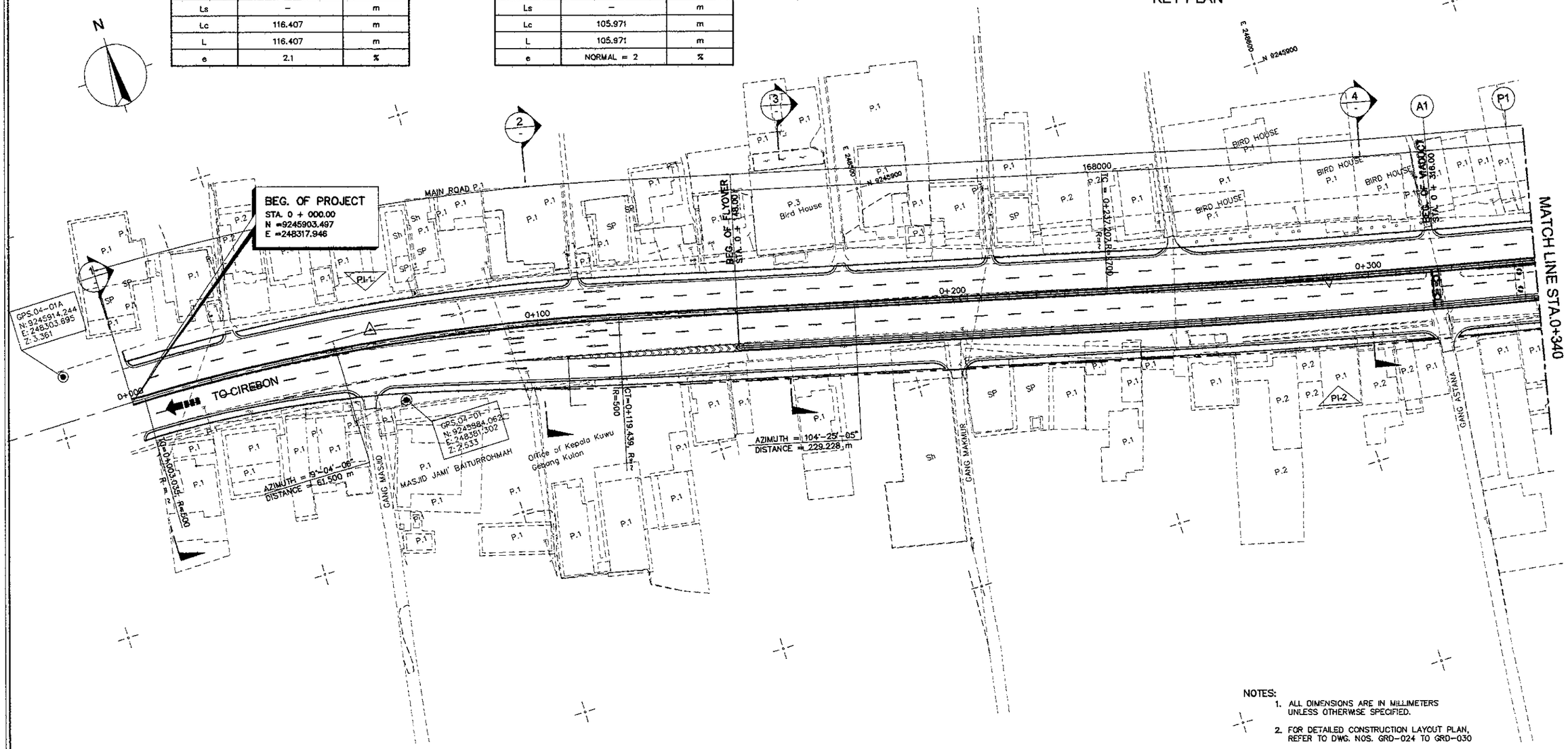
PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 1000	ROADWAY PLAN (FLYOVER) 1 OF 4	GRD-001
	FULL SIZE A3		SHEET NO : 01 / 69

DATA	PI NO.-1	UNITS
PI STA.	STA. 0 + 061.500	
N	9245902.339	m
E	248379.435	m
V	40	km/h
Δ	13-20-19	° ' "
θs	–	° ' "
R	500	m
A	–	m
Ts	–	m
Es	3.407	m
Tc	58.458	m
Ls	–	m
Lc	116.407	m
L	116.407	m
e	2.1	%

DATA	PI NO.-2	UNITS
PI STA.	STA. 0 + 290.199	
N	9245845.262	m
E	248601.443	m
V	60	km/h
Δ	2-14-56	° ' "
θs	–	° ' "
R	2700	m
A	–	m
Ts	–	m
Es	0.520	m
Tc	52.992	m
Ls	–	m
Lc	105.971	m
L	105.971	m
e	NORMAL = 2	%



KEY PLAN



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. GRD-024 TO GRD-030
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. GRD-015 TO GRD-021

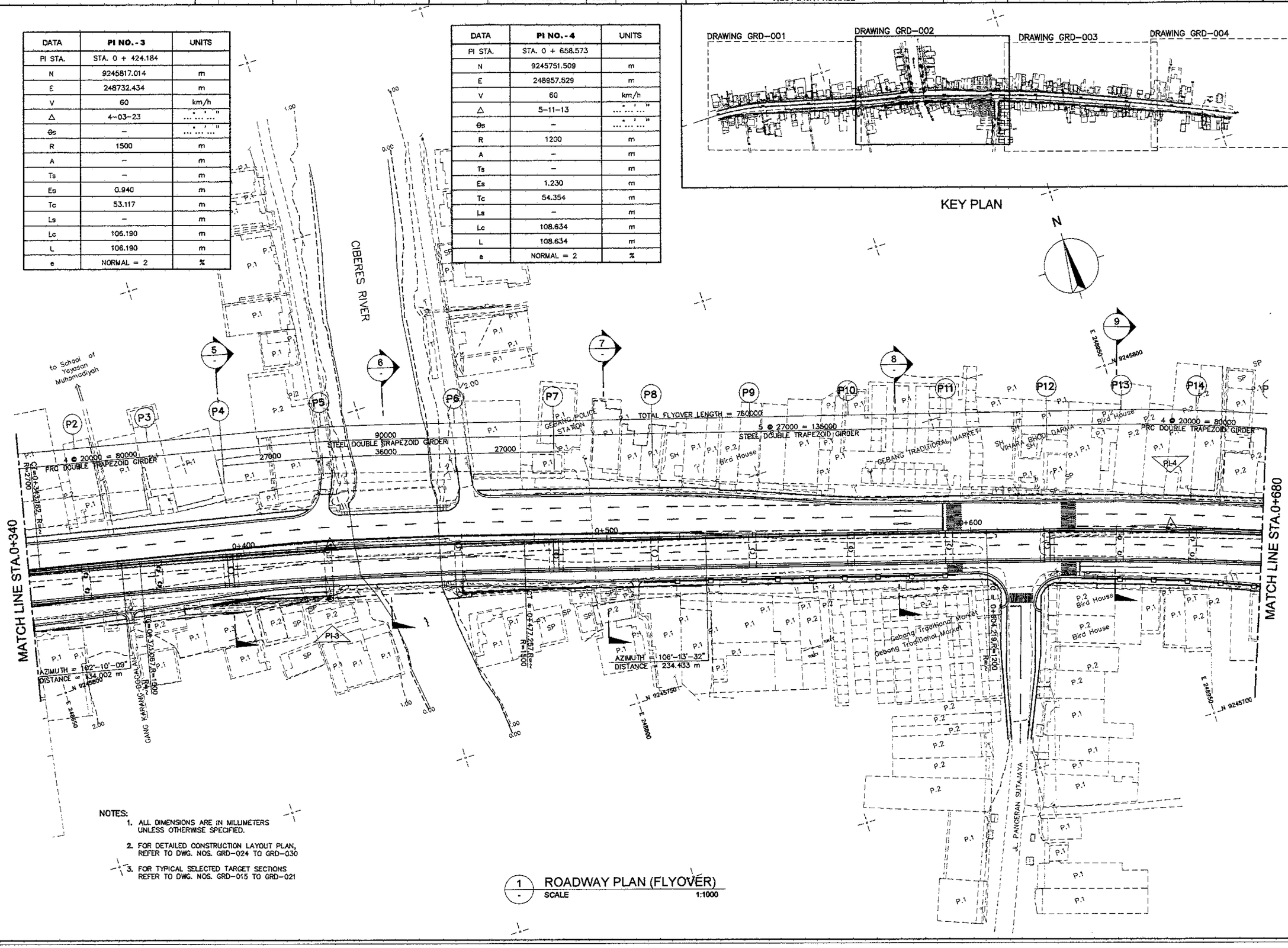
1 / - ROADWAY PLAN (FLYOVER)
SCALE 1:1000

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 1000	ROADWAY PLAN (FLYOVER) 2 OF 4	GRD-002
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO :
	Date	Date	Date	Sign / Date		FULL SIZE A3		02 / 69

DATA	PI NO.-3	UNITS
PI STA.	STA. 0 + 424.184	
N	9245817.014	m
E	248732.434	m
V	60	km/h
Δ	4-03-23	° ' "
θs	–	° ' "
R	1500	m
A	–	m
Ts	–	m
Es	0.940	m
Tc	53.117	m
Ls	–	m
Lc	106.190	m
L	106.190	m
e	NORMAL = 2	%

DATA	PI NO.-4	UNITS
PI STA.	STA. 0 + 658.573	
N	9245751.509	m
E	248857.529	m
V	60	km/h
Δ	5-11-13	° ' "
θs	–	° ' "
R	1200	m
A	–	m
Ts	–	m
Es	1.230	m
Tc	54.354	m
Ls	–	m
Lc	108.634	m
L	108.634	m
e	NORMAL = 2	%

KEY PLAN



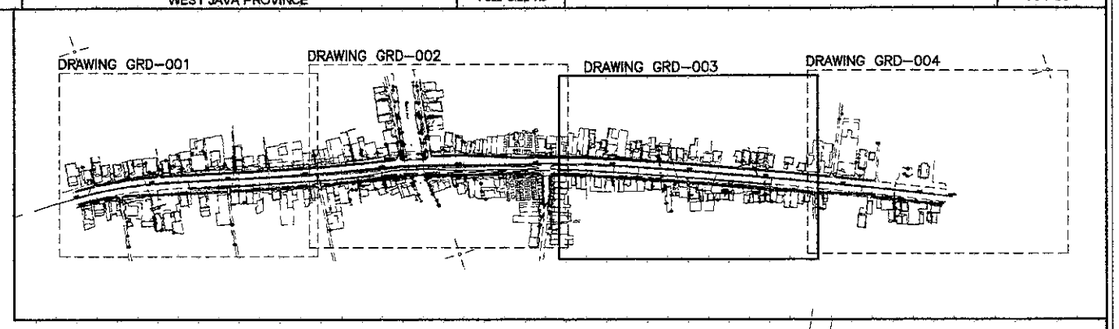
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. GRD-024 TO GRD-030
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. GRD-015 TO GRD-021

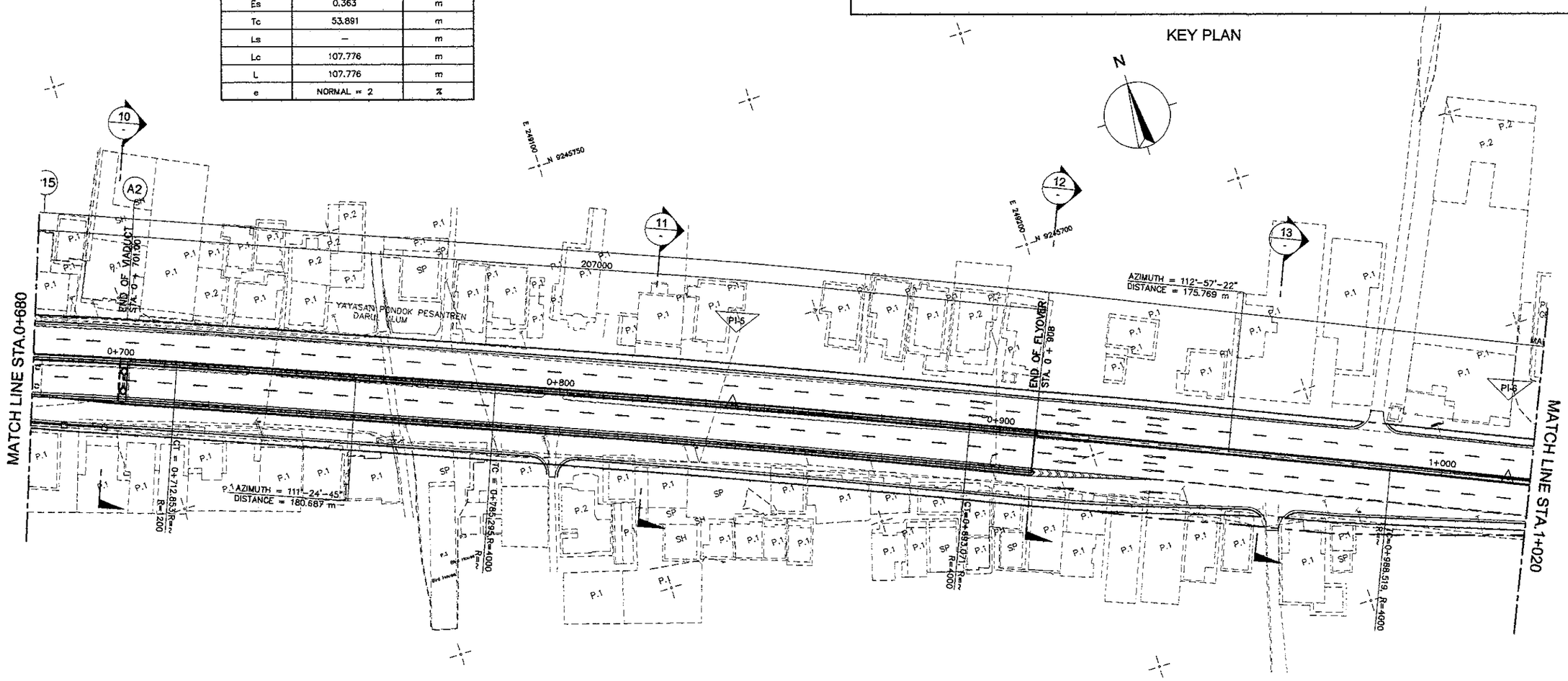
1 ROADWAY PLAN (FLYOVER)
SCALE 1:1000

JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 1000	ROADWAY PLAN (FLYOVER) 3 OF 4	GRD-003
	Sign	Sign	Sign	APPROVED BY: ir. HERRY VAZA M,Eng.Sc				SHEET NO :
	Date	Date	Date	NIP. : 110038400		FULL SIZE A3		03 / 69

DATA	PI NO. - 5	UNITS
PI STA.	STA. 0 + 839.186	
N	9245685.544	m
E	249125.744	m
V	60	km/h
Δ	1-32-38	° ' "
θs	–	° ' "
R	4000	m
A	–	m
Ts	–	m
Es	0.363	m
Tc	53.891	m
Ls	–	m
Lc	107.776	m
L	107.776	m
e	NORMAL = 2	%



KEY PLAN

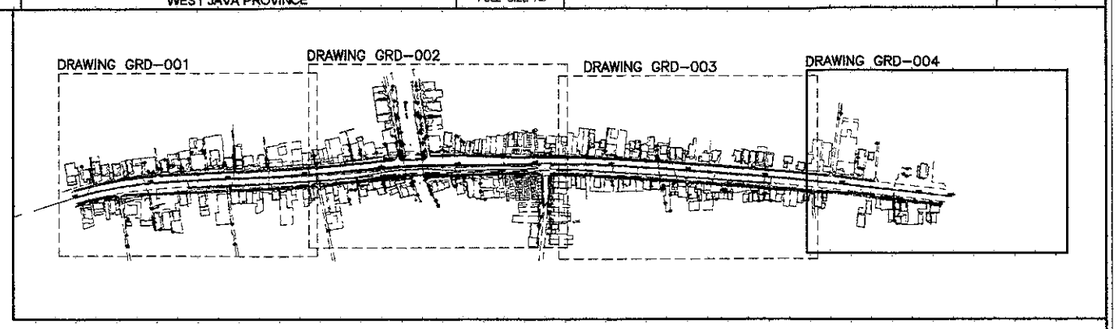


1 ROADWAY PLAN (FLYOVER)
SCALE 1:1000

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. GRD-024 TO GRD-030
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. GRD-015 TO GRD-021

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 1000	ROADWAY PLAN (FLYOVER) 4 OF 4	GRD-004
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO :
	Date	Date	Date	Sign / Date		FULL SIZE A3		04 / 69



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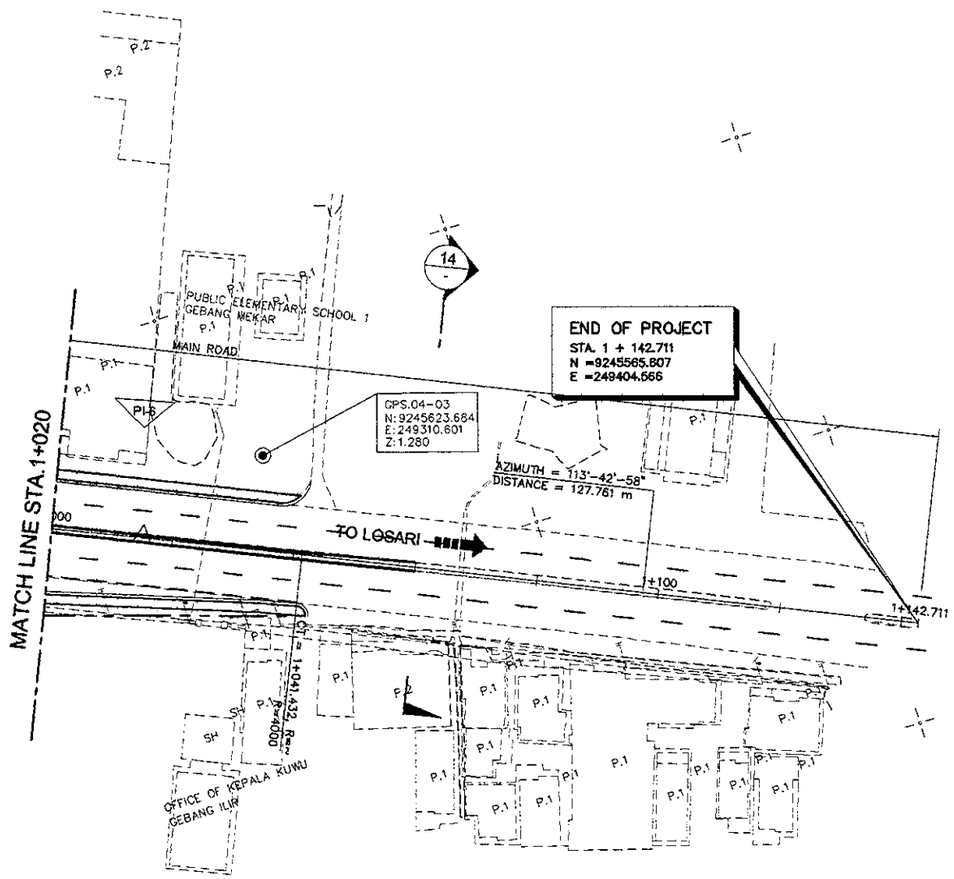


DATA	PI NO.-6	UNITS
PI STA.	STA. 1 + 014.976	
N	9245616.989	m
E	249287.593	m
V	40	km/h
Δ	0-45-28	...°...'..."
θs	–	...°...'..."
R	4000	m
A	–	m
Ts	–	m
Es	0.087	m
Tc	26.457	m
Ls	–	m
Lc	52.913	m
L	52.913	m
e	NORMAL = 2	%

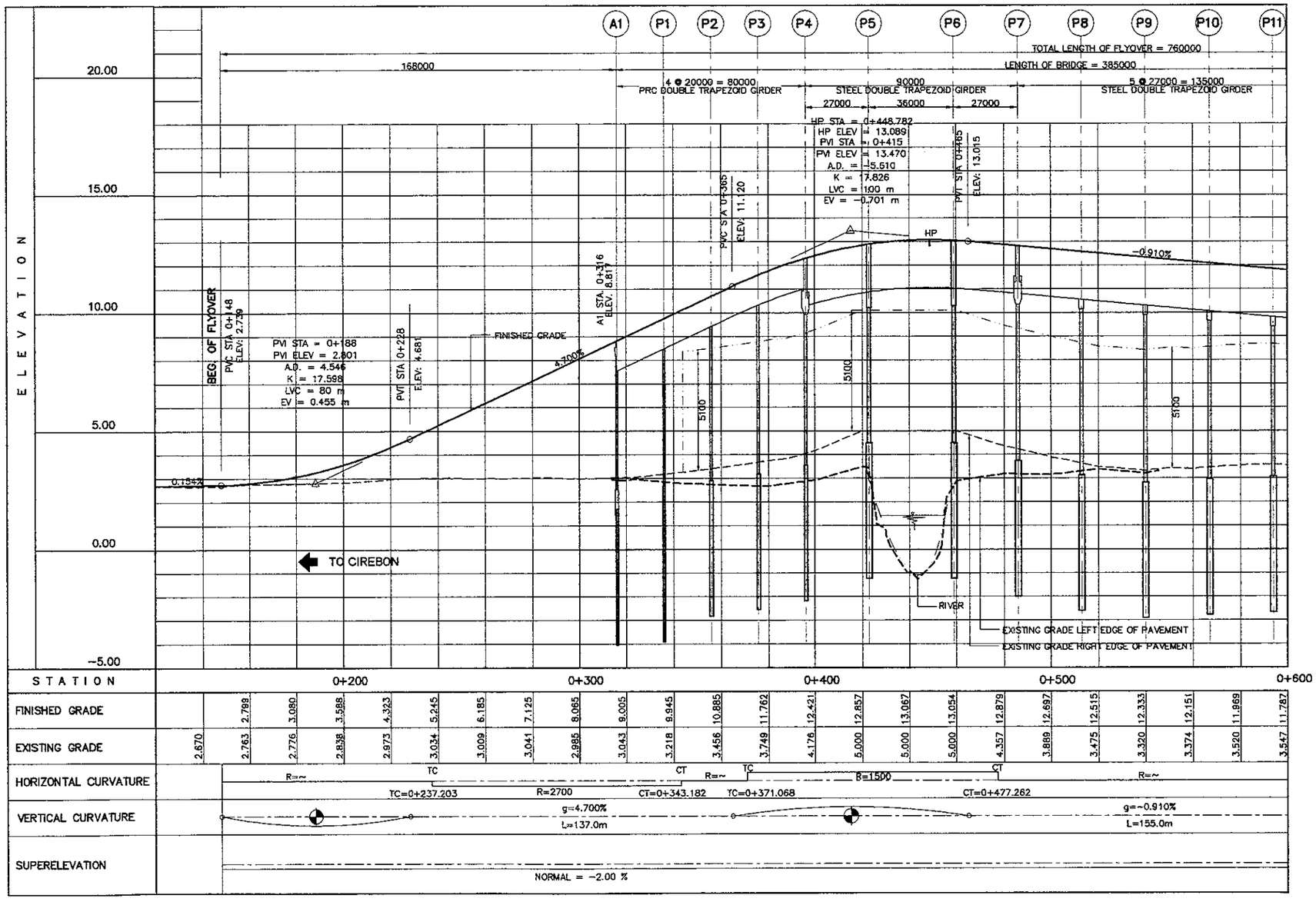
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. GRD-024 TO GRD-030
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. GRD-015 TO GRD-021

1 / - ROADWAY PLAN (FLYOVER)
SCALE 1:1000

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	H=1 : 2000 V=1 : 200	PROFILE OF FLYOVER 1 OF 2	GRD-005
	Sign	Sign	Sign	APPROVED BY: ir. HERRY VAZA M,Eng.Sc NIP. : 110038400		FULL SIZE A3		SHEET NO : 05 / 69
	Date	Date	Date	Sign / Date				

ELEVATION	A1	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
PIER AND ABUTMENT	A1	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
FINISHED GRADE	8.817	9.757	10.697	11.603	12.307	12.902	13.080	12.824	12.578	12.333	12.057	11.841
EXISTING GRADE	3.040	3.175	3.406	3.681	4.056	5.000	5.000	4.233	3.627	3.325	3.456	3.577

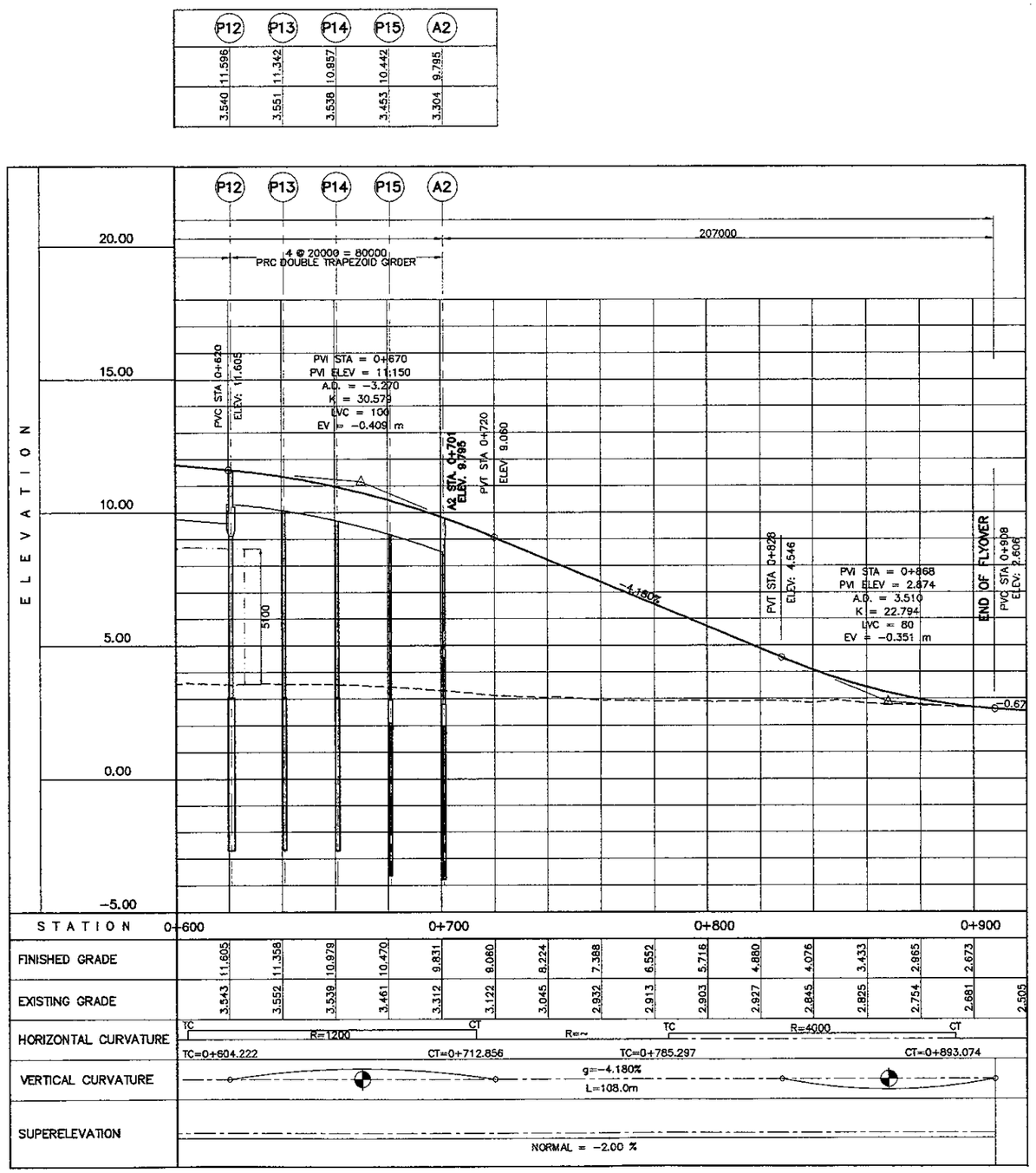


1 / - PROFILE OF FLYOVER (1 OF 2)
SCALE H = 1 : 2000
V = 1 : 200

NOTE:

EXISTING GRADE ELEVATIONS ARE TAKEN FROM LEFT EDGE OF EXISTING MEDIAN CURB OR INNER EDGE OF EXISTING PAVEMENT

JAPAN INTERNATIONAL COOPERATION AGENCY / KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	H=1 : 2000 V=1 : 200	PROFILE OF FLYOVER 2 OF 2	GRD-006
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400		FULL SIZE A3		SHEET NO : 06 / 69
	Date	Date	Date	Sign / Date				



2 / - PROFILE OF FLYOVER (2 OF 2)

SCALE H = 1 : 2000 V = 1 : 200

NOTE:

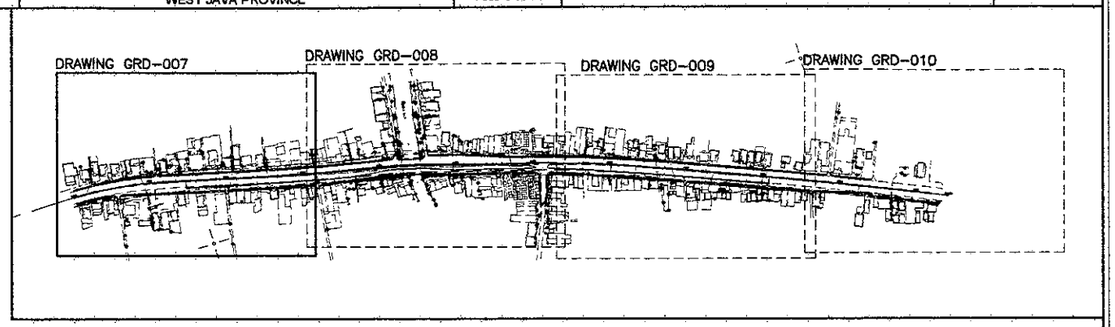
EXISTING GRADE ELEVATIONS ARE TAKEN FROM LEFT EDGE OF EXISTING MEDIAN CURB OR INNER EDGE OF EXISTING PAVEMENT

JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 1000	ROADWAY PLAN (AT-GRADE) 1 OF 4	GRD-007
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc				SHEET NO :
	Date	Date	Date	NIP. : 110038400 — Sign / Date		FULL SIZE A3		07 / 69

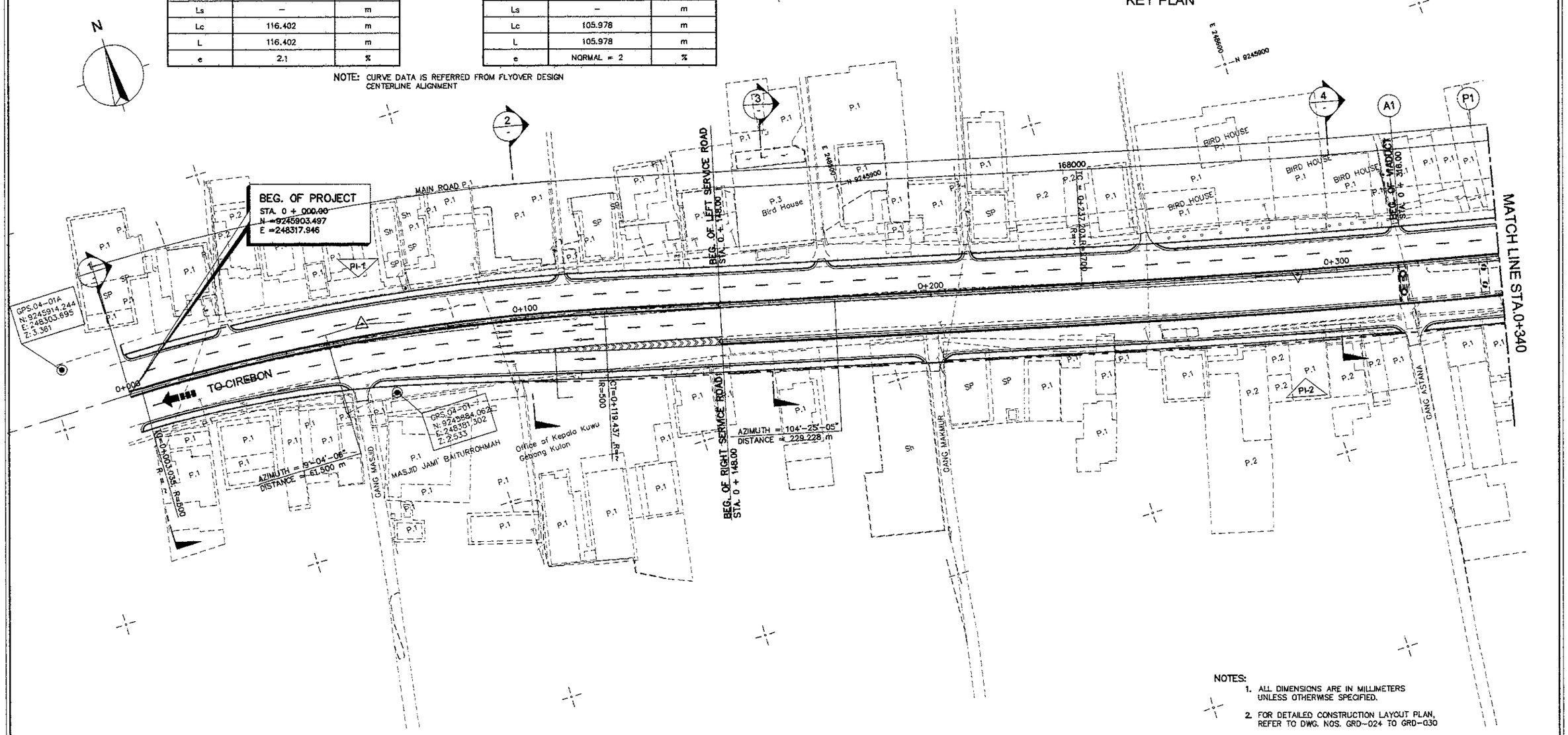
DATA	PI NO.-1	UNITS
PI STA.	STA. 0 + 061.500	
N	9245902.339	m
E	248379.435	m
V	40	km/h
Δ	13-20-19	° ' "
θs	–	° ' "
R	500	m
A	–	m
Ts	–	m
Es	3.407	m
Tc	58.465	m
Ls	–	m
Lc	116.402	m
L	116.402	m
e	2.1	%

DATA	PI NO.-2	UNITS
PI STA.	STA. 0 + 290.199	
N	9245845.262	m
E	248601.443	m
V	60	km/h
Δ	2-14-56	° ' "
θs	–	° ' "
R	2700	m
A	–	m
Ts	–	m
Es	0.520	m
Tc	52.996	m
Ls	–	m
Lc	105.978	m
L	105.978	m
e	NORMAL = 2	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT



KEY PLAN



1 ROADWAY PLAN (AT-GRADE)
SCALE 1:1000

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. GRD-024 TO GRD-030
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. GRD-015 TO GRD-021

JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 1000	ROADWAY PLAN (AT-GRADE) 2 OF 4	GRD-008
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400		FULL SIZE A3		SHEET NO : 08 / 69
	Date	Date	Date	Sign / Date				

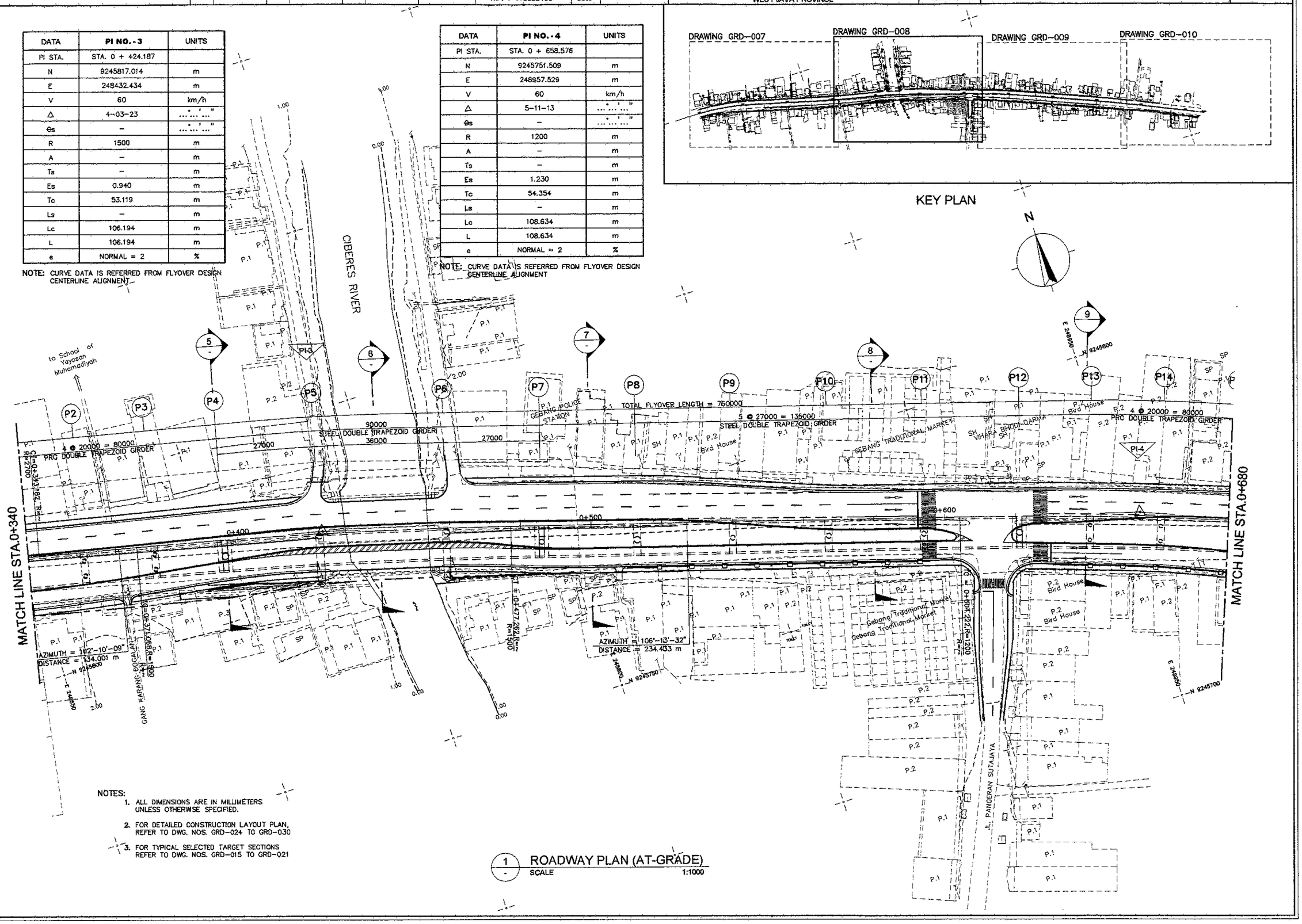
DATA	PI NO.-3	UNITS
PI STA.	STA. 0 + 424.187	
N	9245817.014	m
E	248432.434	m
V	60	km/h
Δ	4-03-23	° ' "
θs	-	° ' "
R	1500	m
A	-	m
Ts	-	m
Es	0.940	m
Tc	53.119	m
Ls	-	m
Lc	106.194	m
L	106.194	m
e	NORMAL = 2	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT

DATA	PI NO.-4	UNITS
PI STA.	STA. 0 + 658.576	
N	9245751.509	m
E	248957.529	m
V	60	km/h
Δ	5-11-13	° ' "
θs	-	° ' "
R	1200	m
A	-	m
Ts	-	m
Es	1.230	m
Tc	54.354	m
Ls	-	m
Lc	108.634	m
L	108.634	m
e	NORMAL = 2	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT

KEY PLAN



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. GRD-024 TO GRD-030
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. GRD-015 TO GRD-021

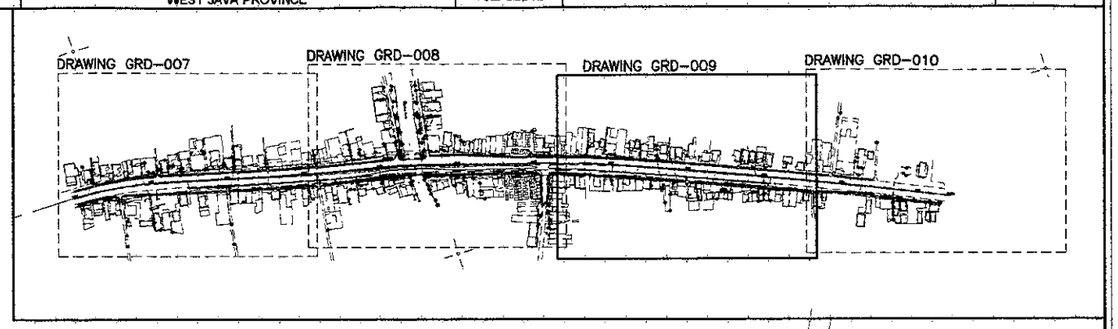
1 / - ROADWAY PLAN (AT-GRADE)

SCALE 1:1000

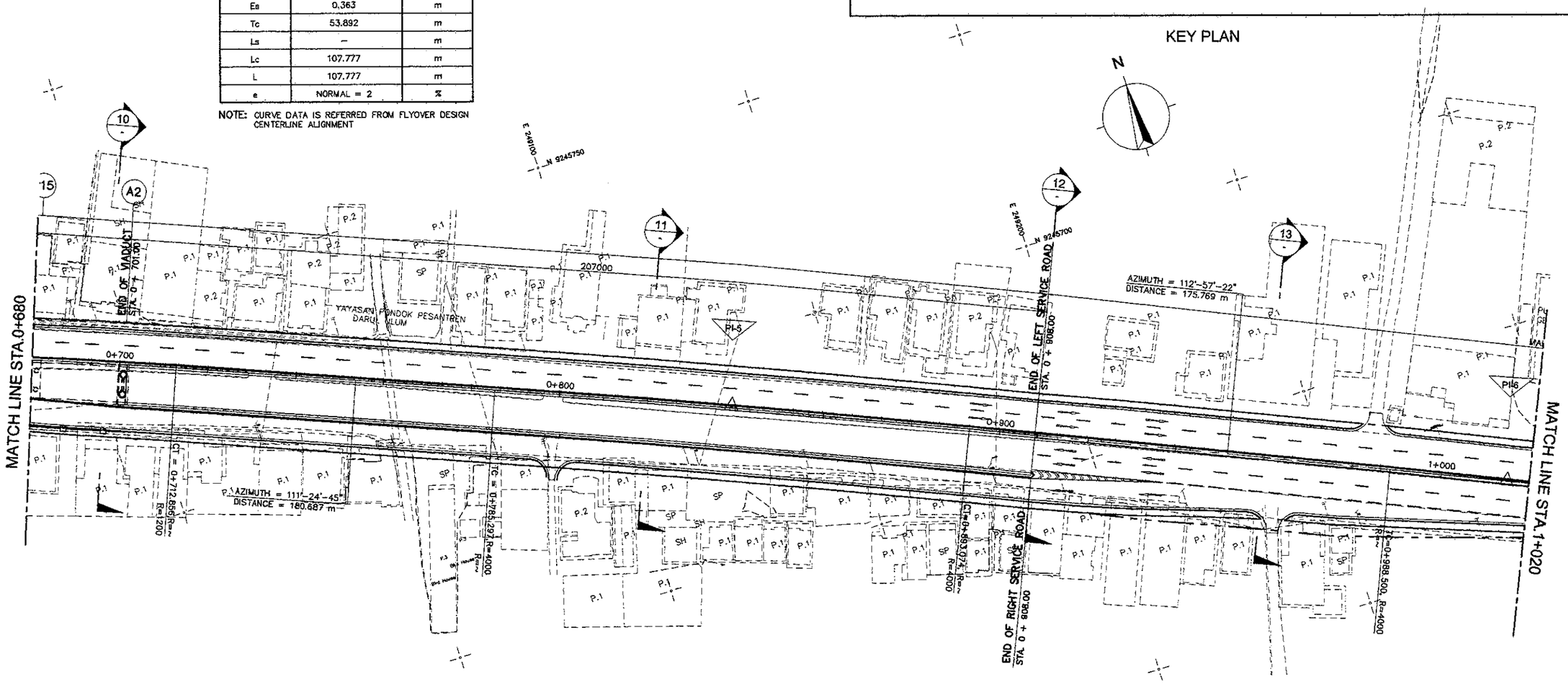
JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 1000	ROADWAY PLAN (AT-GRADE) 3 OF 4	GRD-009
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc				SHEET NO :
	Date	Date	Date	NIP. : 110038400 — Sign / Date		FULL SIZE A3		09 / 69

DATA	PI NO.-5	UNITS
PI STA.	STA. 0 + 839.188	
N	9245685.544	m
E	249125.744	m
V	60	km/h
Δ	1-32-38	° ' "
θs	–	° ' "
R	4000	m
A	–	m
Ts	–	m
Es	0.363	m
Tc	53.892	m
Ls	–	m
Lc	107.777	m
L	107.777	m
e	NORMAL = 2	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT



KEY PLAN

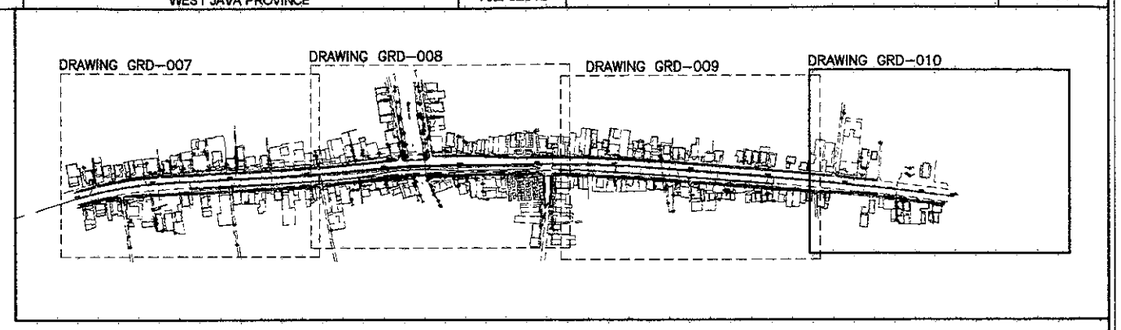


NOTES:

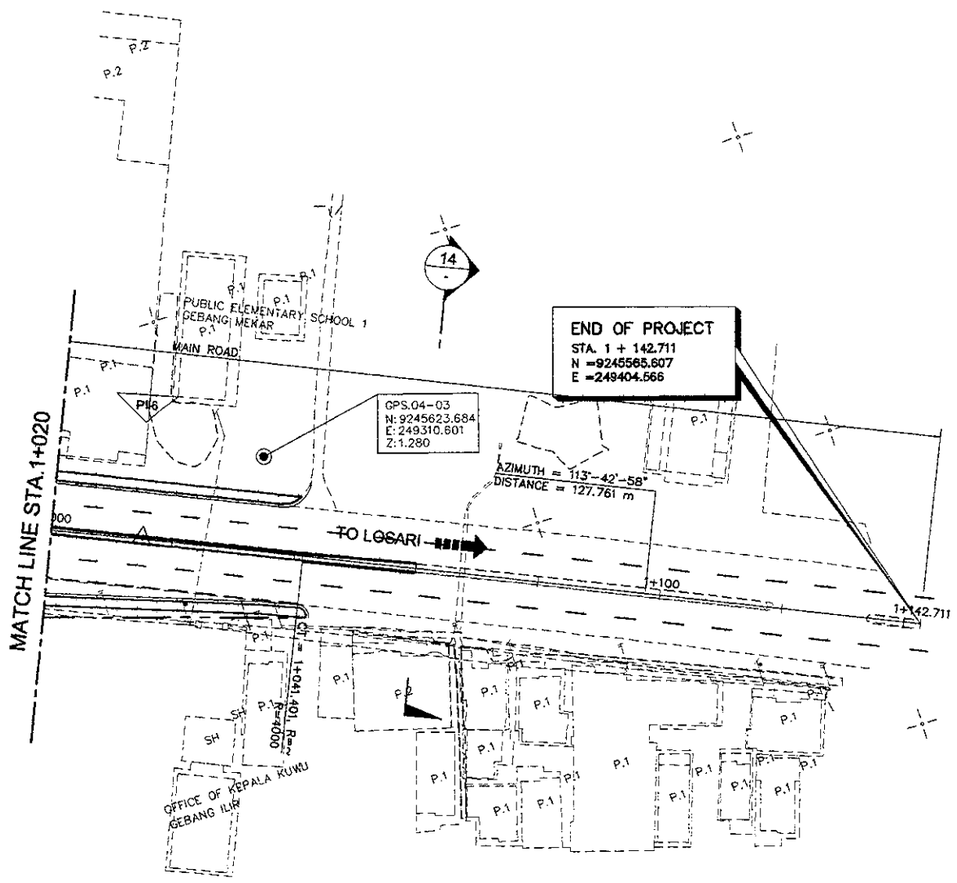
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. GRD-024 TO GRD-030
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. GRD-015 TO GRD-021

1 / - ROADWAY PLAN (AT-GRADE)
SCALE 1:1000

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY		REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS				PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI					DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 1000	ROADWAY PLAN (AT-GRADE) 4 OF 4	GRD-010
	Sign		Sign		Sign		APPROVED BY	Ir. HERRY VAZA M,Eng.Sc	Sign					SHEET NO :
	Date		Date		Date			NIP. : 110038400	Date			FULL SIZE A3		10 / 69



KEY PLAN



NOTES:

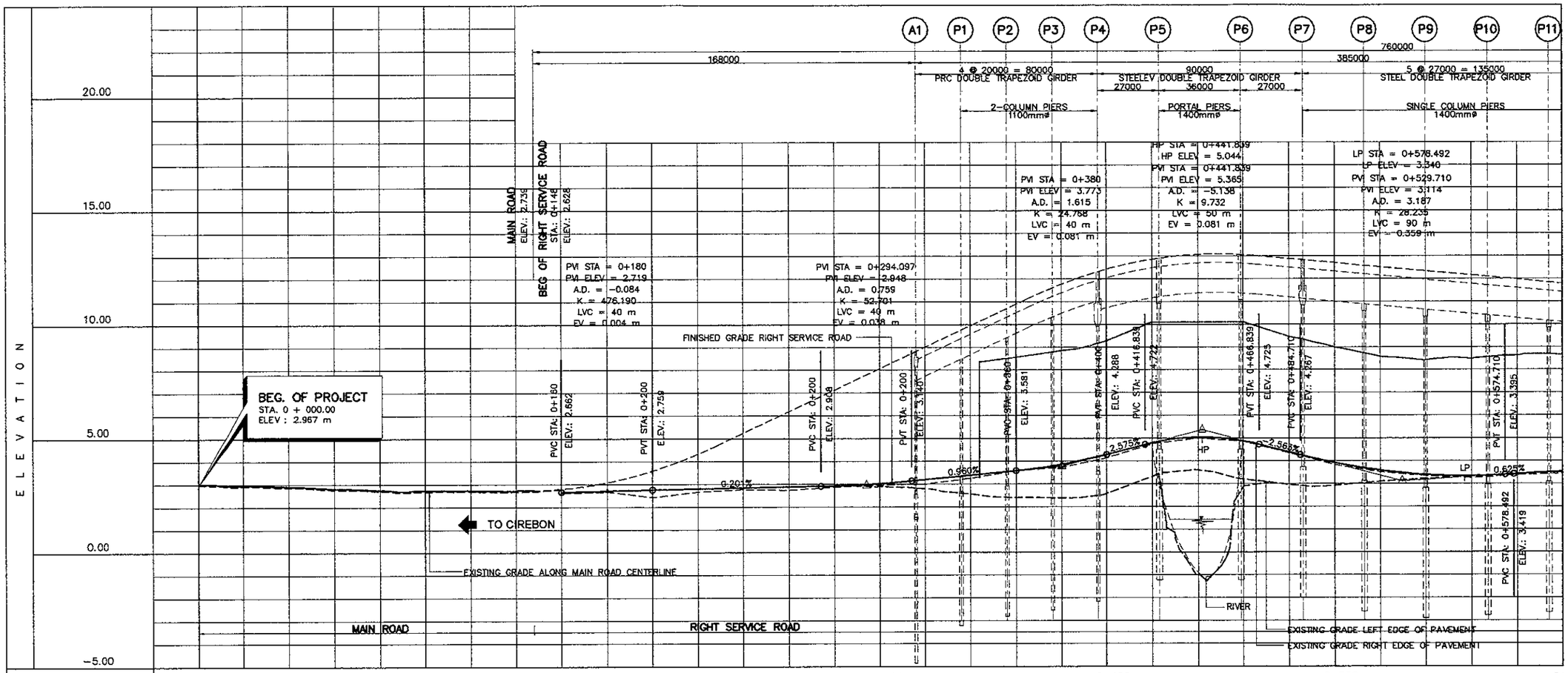
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. GRD-024 TO GRD-030
3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. GRD-015 TO GRD-021

1 / - ROADWAY PLAN (AT-GRADE)
SCALE 1:1000

DATA	PI NO.-6	UNITS
PI STA.	STA. 1 + 014.951	
N	9245616.989	m
E	249287.593	m
V	40	km/h
Δ	0-45-28	° ' "
θs	–	° ' "
R	4000	m
A	–	m
Ts	–	m
Es	0.087	m
Tc	26.451	m
Ls	–	m
Lc	52.901	m
L	52.901	m
e	NORMAL = 2	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	H=1 : 2000 V=1 : 200 FULL SIZE A3	PROFILE OF MAIN ROAD & RIGHT SERVICE ROAD 1 OF 2	GRD-011
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO : 11 / 69
	Date	Date	Date	Sign / Date				



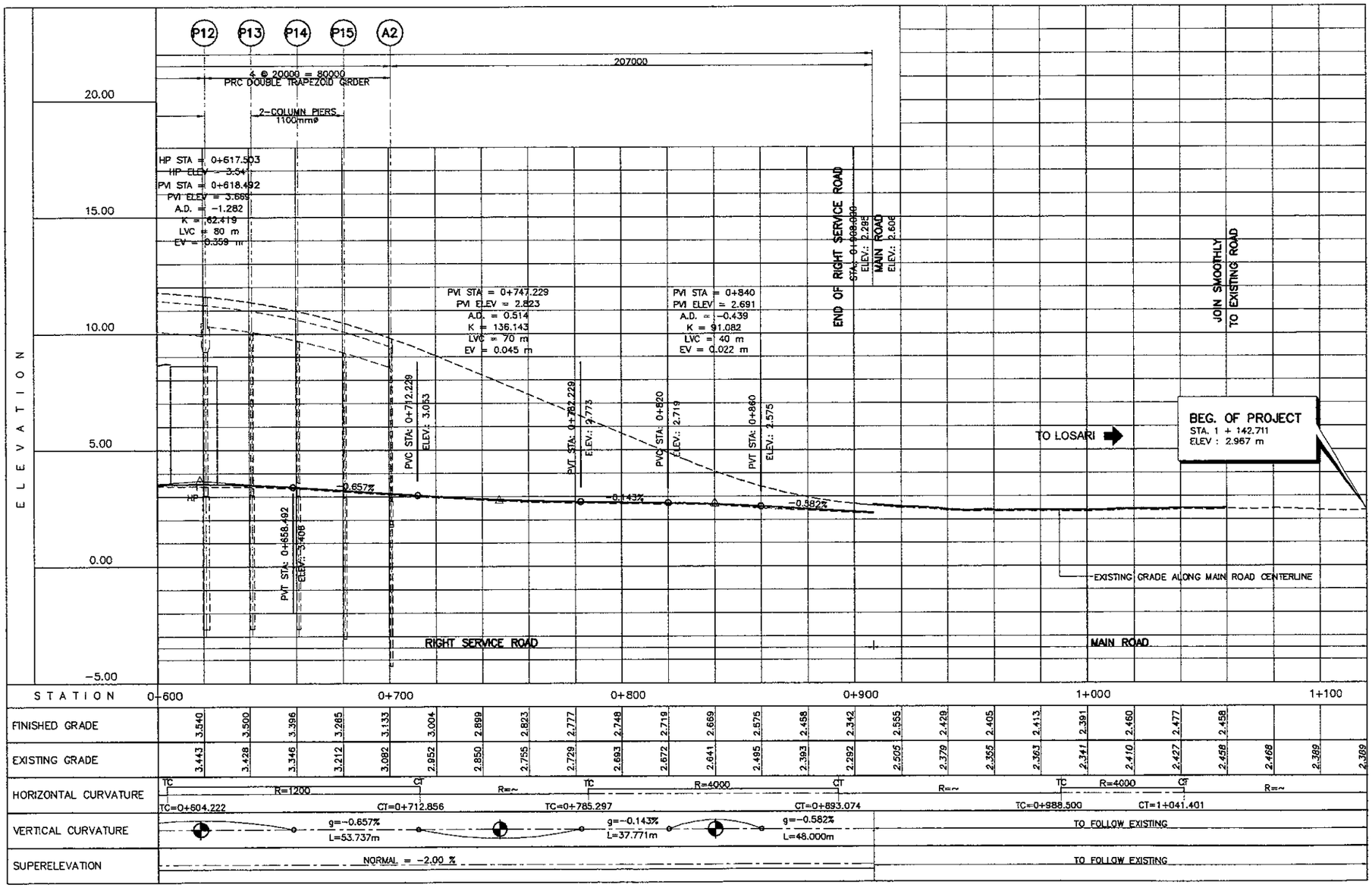
STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+600
FINISHED GRADE	2.967 2.869 2.818 2.812 2.757 2.726 2.738 2.720 2.662 2.715 2.759 2.799 2.840 2.880 2.923 3.024 3.197 3.389 3.581 3.854 4.288 4.788 5.042 4.876 4.388 3.916 3.583 3.391 3.341 3.428 3.516						
EXISTING GRADE	2.967 2.909 2.868 2.762 2.707 2.676 2.688 2.670 2.612 2.669 2.426 2.662 2.766 2.740 2.870 2.955 2.994 3.250 3.575 3.723 4.135 4.753 5.000 4.850 4.352 3.825 3.510 3.339 3.253 3.378 3.446						
HORIZONTAL CURVATURE	TC R=510.45 CT TC=0+003.035 CT=0+119.437	R=~ TC TC=0+237.203 R=2700 CT=0+343.182	R=~ TC R=1500 CT R=~ TC=0+371.068 CT=0+477.262				
VERTICAL CURVATURE	TO FOLLOW EXISTING	g=0.201% L=74.097m	g=0.960% L=45.903m	g=2.575% L=16.839m	g=-2.563% L=17.870m		
SUPERELEVATION	TO FOLLOW EXISTING				NORMAL = -2.00 %		

NOTES:

1. EXISTING GRADE ELEVATIONS ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
2. EXISTING/FINISHED GRADE ELEVATIONS ALONG RIGHT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.
3. HORIZONTAL CURVATURE DIAGRAM IS REFERRED FROM FLYOVER CENTERLINE ALIGNMENT.
4. SUPERELEVATION AT SERVICE ROAD SHALL BE 2.0% AT NEW PAVEMENT OTHERWISE TO FOLLOW EXISTING CROSS SLOPE.

1 / - PROFILE OF MAIN ROAD & RIGHT SERVICE ROAD (1 OF 2)
SCALE H = 1 : 2000 V = 1 : 200

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	H=1 : 2000 V=1 : 200	PROFILE OF MAIN ROAD & RIGHT SERVICE ROAD 2 OF 2	GRD-012
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400		FULL SIZE A3		SHEET NO : 12 / 69
	Date	Date	Date	Sign / Date				

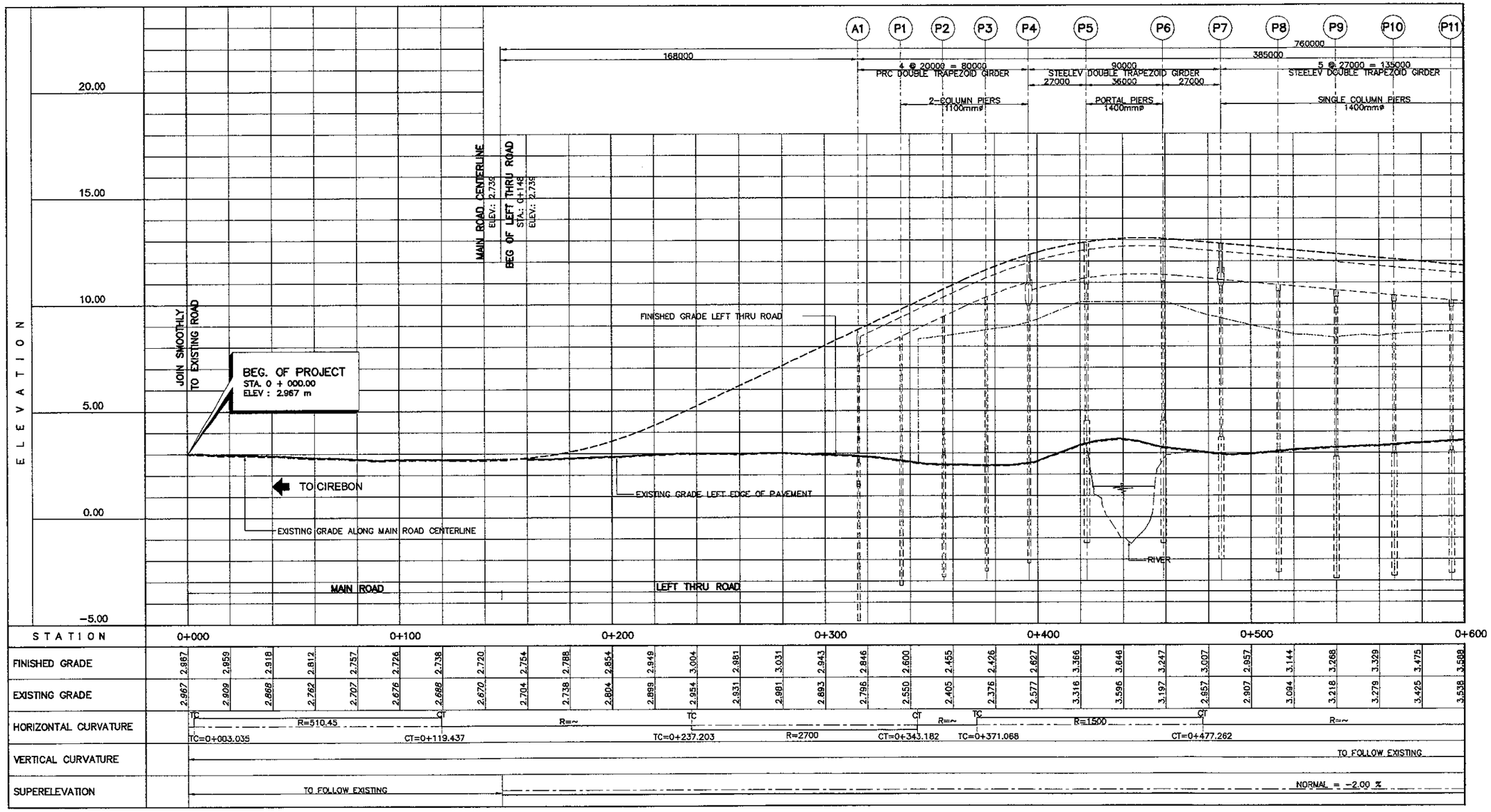


1 / - PROFILE OF MAIN ROAD & RIGHT SERVICE ROAD (2 OF 2)
SCALE H = 1 : 2000 V = 1 : 200

NOTES:

1. EXISTING GRADE ELEVATIONS ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
2. EXISTING/FINISHED GRADE ELEVATIONS ALONG RIGHT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.
3. HORIZONTAL CURVATURE DIAGRAM IS REFERRED FROM FLYOVER CENTERLINE ALIGNMENT.
4. SUPERELEVATION AT SERVICE ROAD SHALL BE 2.0% AT NEW PAVEMENT OTHERWISE TO FOLLOW EXISTING CROSS SLOPE.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	H=1 : 2000 V=1 : 200	PROFILE OF MAIN ROAD & LEFT THRU ROAD 1 OF 2	GRD-013
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400		FULL SIZE A3		SHEET NO : 13 / 69
	Date	Date	Date	Sign / Date				

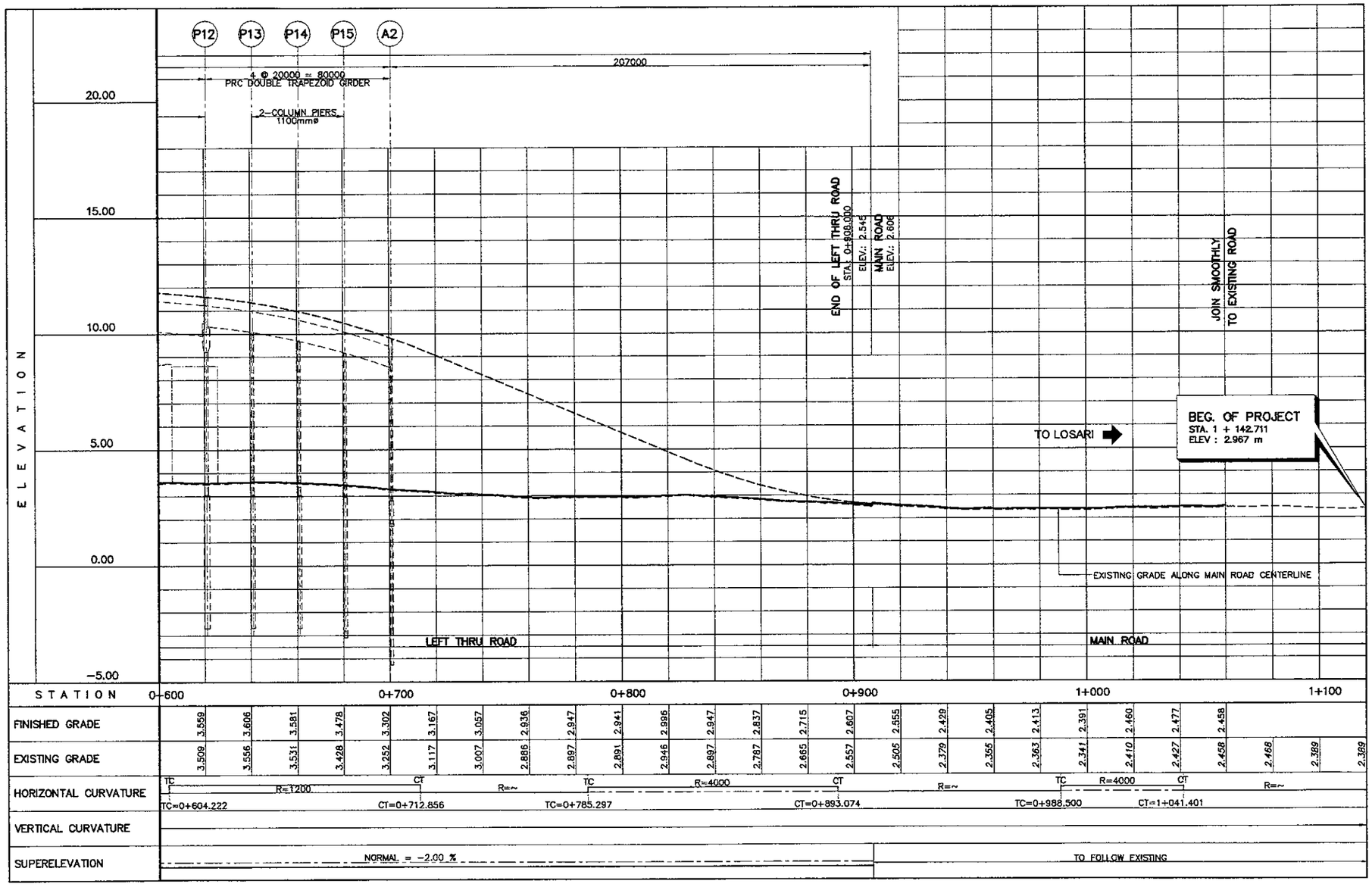


1 / - PROFILE OF MAIN ROAD & LEFT THRU ROAD (1 OF 2)
SCALE H = 1 : 2000 V = 1 : 200

NOTES:

1. EXISTING GRADE ELEVATIONS ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
2. EXISTING/FINISHED GRADE ELEVATIONS ALONG RIGHT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.
3. HORIZONTAL CURVATURE DIAGRAM IS REFERRED FROM FLYOVER CENTERLINE ALIGNMENT.
4. SUPERELEVATION AT SERVICE ROAD SHALL BE 2.0% AT NEW PAVEMENT OTHERWISE TO FOLLOW EXISTING CROSS SLOPE.

JAPAN INTERNATIONAL COOPERATION AGENCY / KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	H=1 : 2000 V=1 : 200 FULL SIZE A3	PROFILE OF MAIN ROAD & LEFT THRU ROAD 2 OF 2	GRD-014
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO : 14 / 69
	Date	Date	Date	Sign / Date				

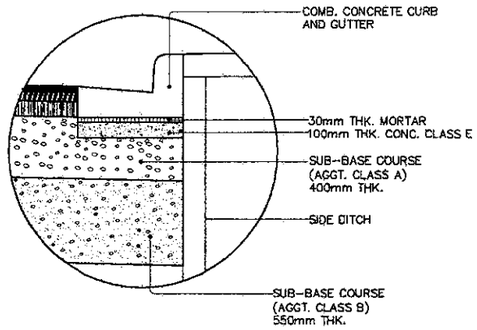


1 / - PROFILE OF MAIN ROAD & LEFT THRU ROAD (2 OF 2)
SCALE H = 1 : 2000 V = 1 : 200

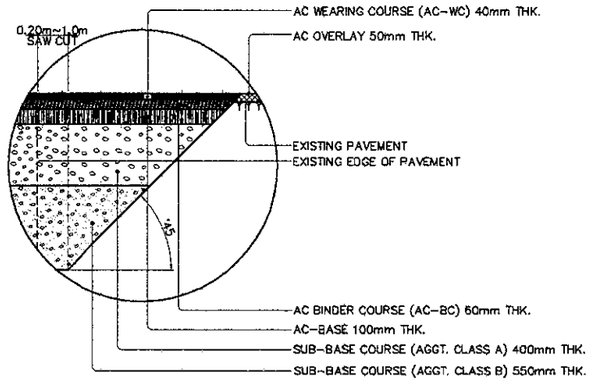
NOTES:

1. EXISTING GRADE ELEVATIONS ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
2. EXISTING/FINISHED GRADE ELEVATIONS ALONG RIGHT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.
3. HORIZONTAL CURVATURE DIAGRAM IS REFERRED FROM FLYOVER CENTERLINE ALIGNMENT.
4. SUPERELEVATION AT SERVICE ROAD SHALL BE 2.0% AT NEW PAVEMENT OTHERWISE TO FOLLOW EXISTING CROSS SLOPE.

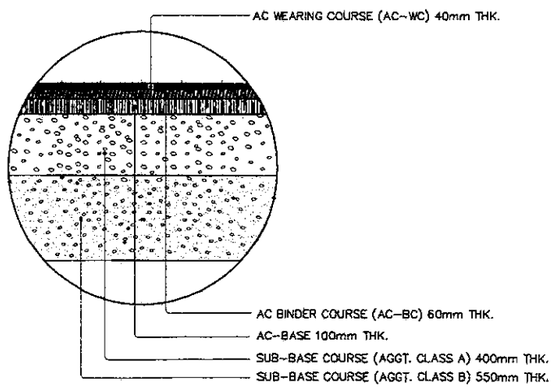
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 150	TYPICAL ROAD CROSS SECTION (1 OF 7)	GRD-015
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO : 15 / 69
	Date	Date	Date	Sign / Date		FULL SIZE A3		



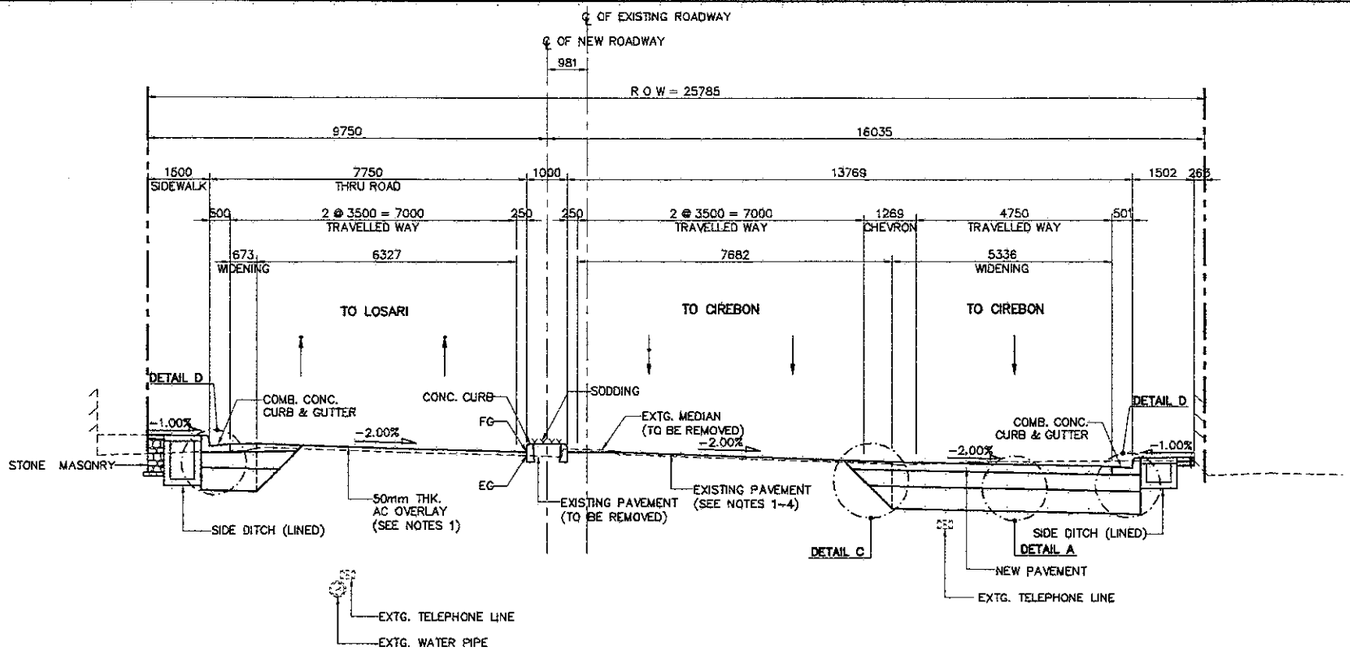
DETAIL D
SCALE 1:40



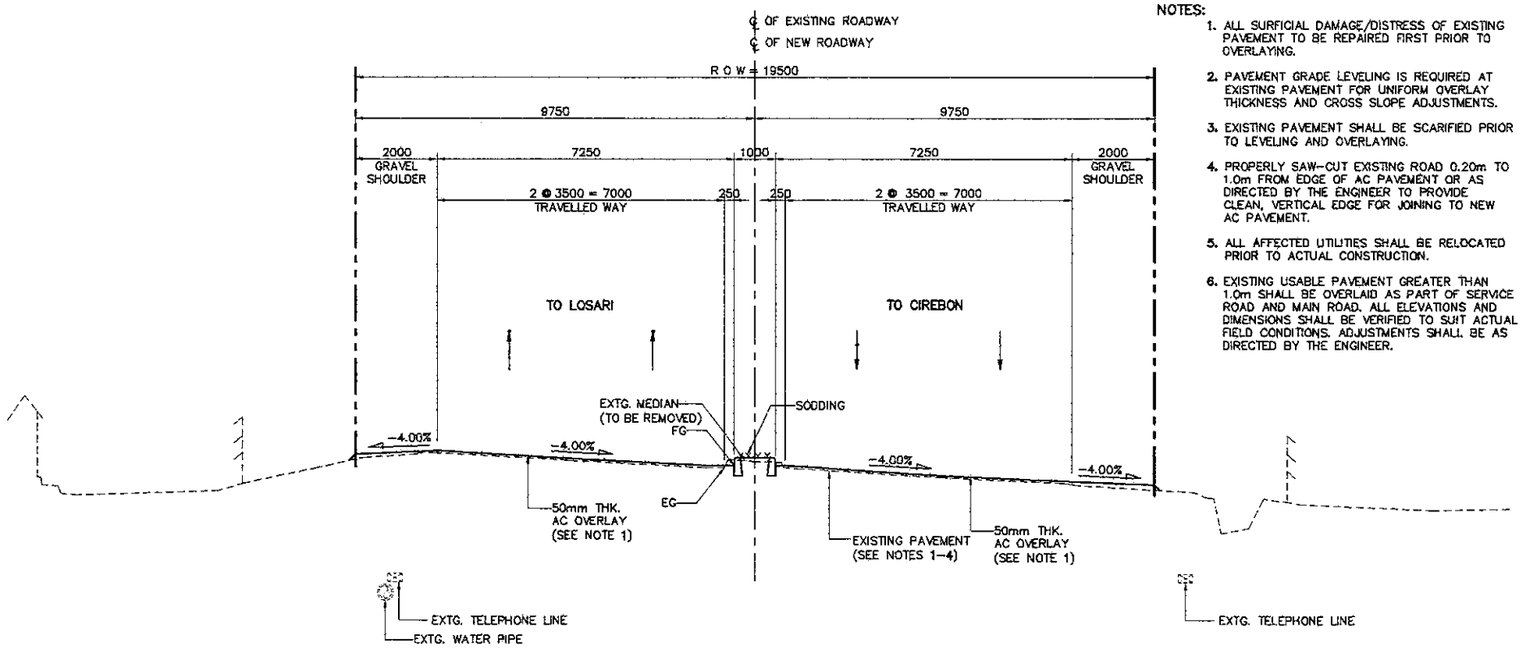
DETAIL C
SCALE 1:40



DETAIL A
SCALE 1:40



2 SECTION NEAR START OF APPROACH RAMP (STA. 0 + 100.000)
SCALE 1:150

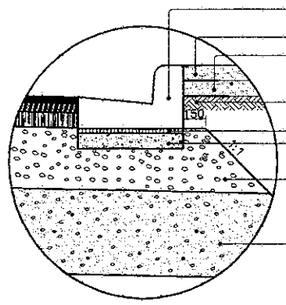


1 SECTION AT BEGINNING OF PROJECT (STA. 0 + 000.000)
SCALE 1:150

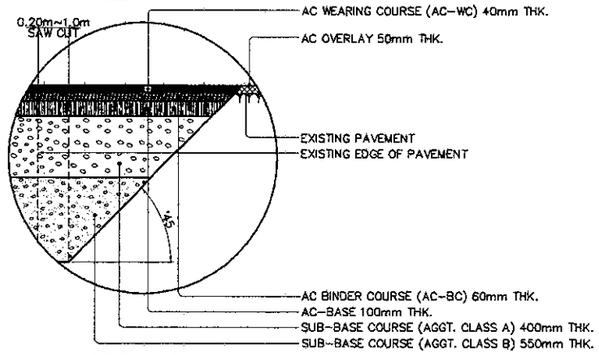
NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
3. EXISTING PAVEMENT SHALL BE SCARIFIED PRIOR TO LEVELING AND OVERLAYING.
4. PROPERLY SAW-CUT EXISTING ROAD 0.20m TO 1.0m FROM EDGE OF AC PAVEMENT OR AS DIRECTED BY THE ENGINEER TO PROVIDE CLEAN, VERTICAL EDGE FOR JOINING TO NEW AC PAVEMENT.
5. ALL AFFECTED UTILITIES SHALL BE RELOCATED PRIOR TO ACTUAL CONSTRUCTION.
6. EXISTING USABLE PAVEMENT GREATER THAN 1.0m SHALL BE OVERLAID AS PART OF SERVICE ROAD AND MAIN ROAD. ALL ELEVATIONS AND DIMENSIONS SHALL BE VERIFIED TO SUIT ACTUAL FIELD CONDITIONS. ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.

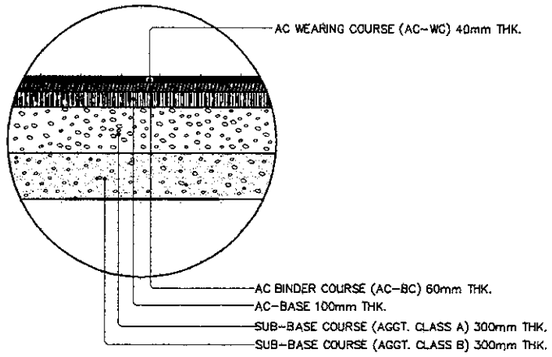
JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name R. UENO	Name T. OKUMURA	Name M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 150	TYPICAL ROAD CROSS SECTION (2 OF 7)	GRD-016
	Sign	Sign	Sign	APPROVED BY ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 Sign				SHEET NO :
	Date	Date	Date	Date		FULL SIZE A3		16 / 69



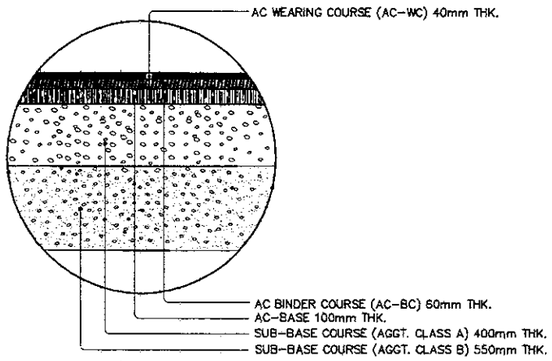
DETAIL D
SCALE 1:40



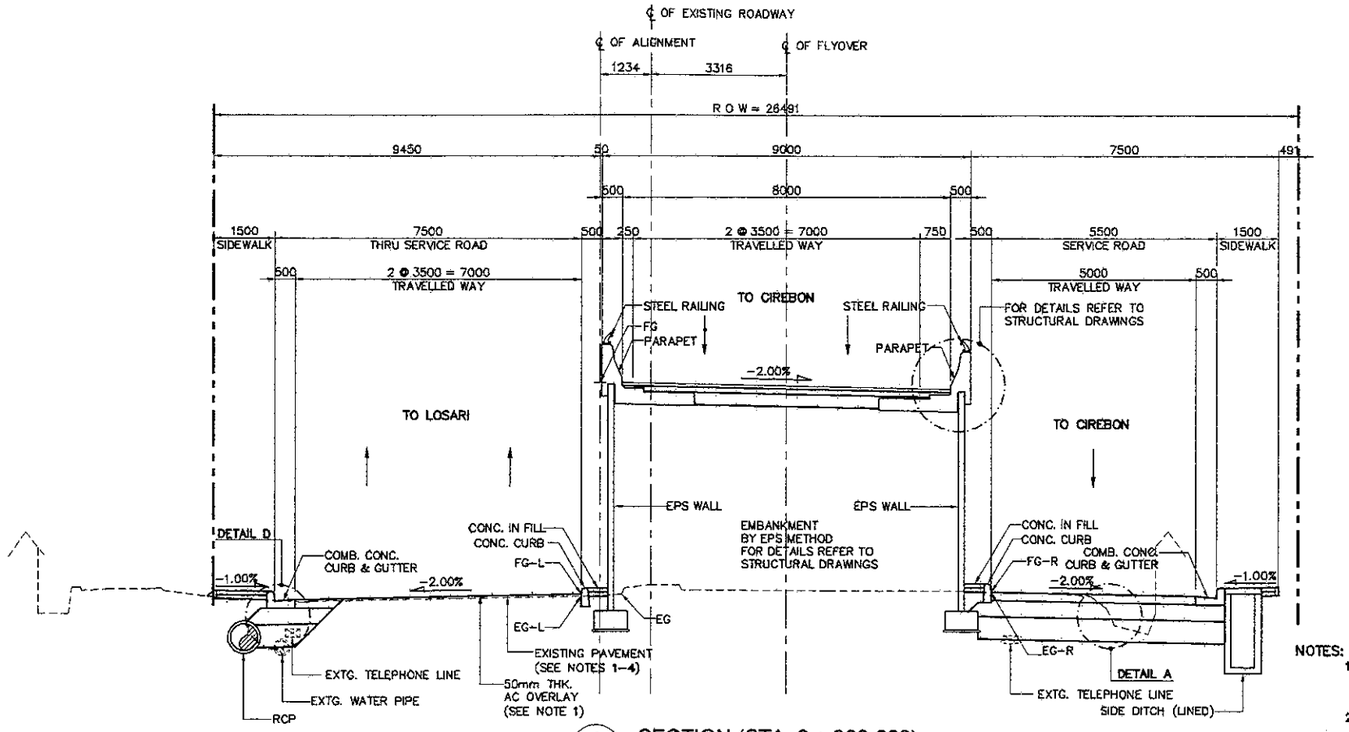
DETAIL C
SCALE 1:40



DETAIL B
SCALE 1:40



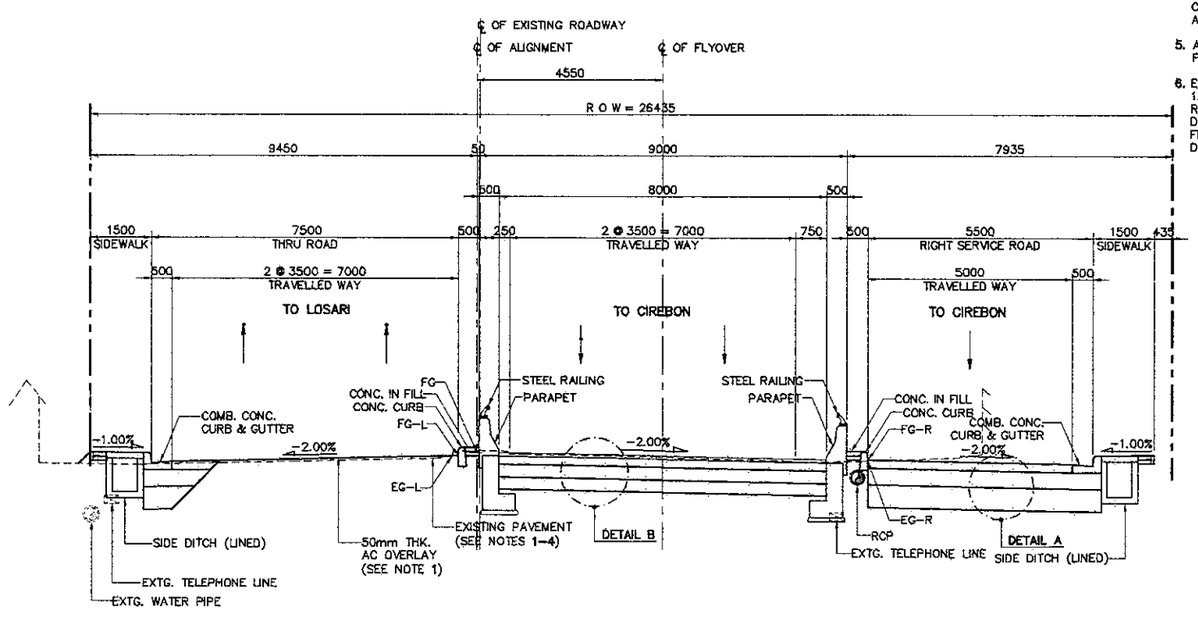
DETAIL A
SCALE 1:40



4 SECTION (STA. 0 + 300.000)
SCALE 1:150

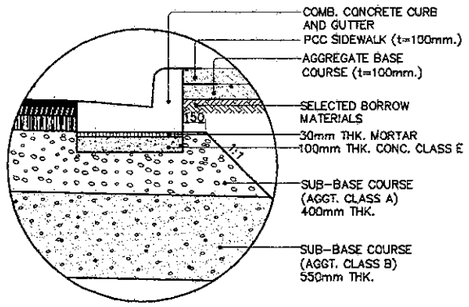
NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
3. EXISTING PAVEMENT SHALL BE SCARIFIED PRIOR TO LEVELING AND OVERLAYING.
4. PROPERLY SAW-CUT EXISTING ROAD 0.20m TO 1.0m FROM EDGE OF AC PAVEMENT OR AS DIRECTED BY THE ENGINEER TO PROVIDE CLEAN, VERTICAL EDGE FOR JOINING TO NEW AC PAVEMENT.
5. ALL AFFECTED UTILITIES SHALL BE RELOCATED PRIOR TO ACTUAL CONSTRUCTION.
6. EXISTING USABLE PAVEMENT GREATER THAN 1.0m SHALL BE OVERLAID AS PART OF SERVICE ROAD AND MAIN ROAD. ALL ELEVATIONS AND DIMENSIONS SHALL BE VERIFIED TO SUIT ACTUAL FIELD CONDITIONS. ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.

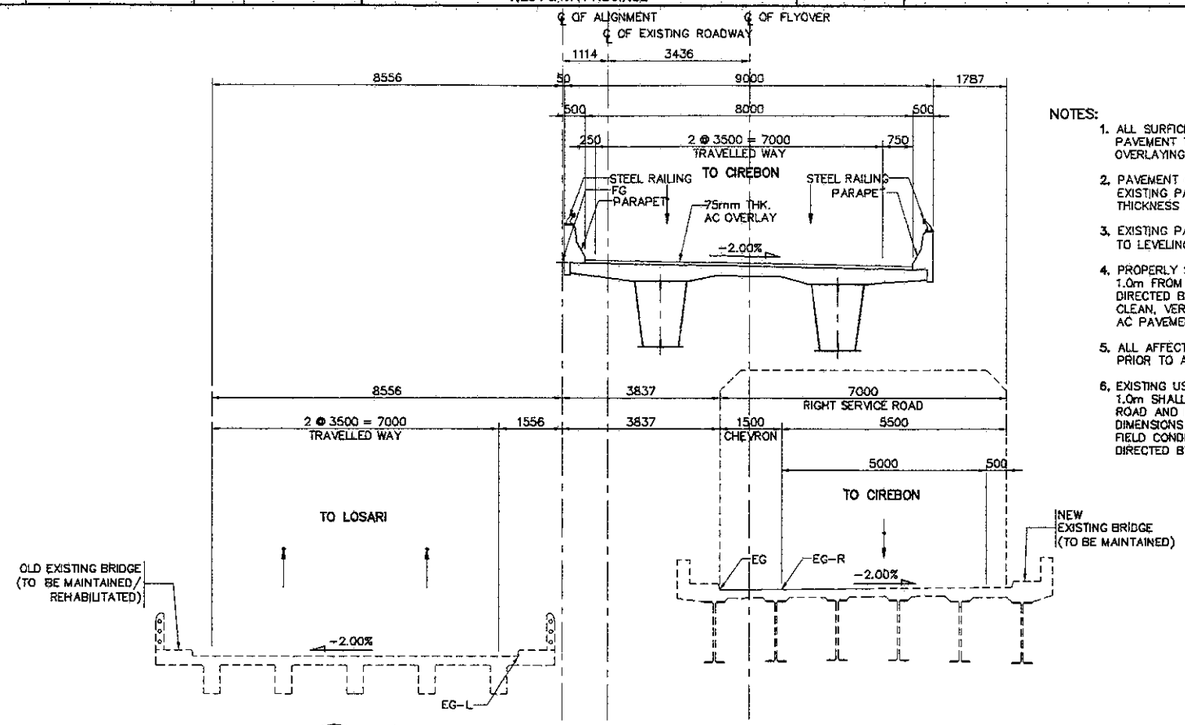


3 SECTION AT APPROACH RAMP (STA. 0+160.000)
SCALE 1:150

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 150	TYPICAL ROAD CROSS SECTION (3 OF 7)	GRD-017
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M.Eng.Sc NIP. : 110038400 — Sign				SHEET NO :
	Date	Date	Date	Date		FULL SIZE A3		17 / 69



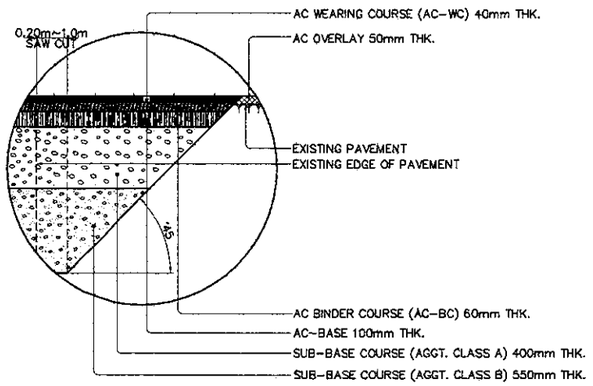
DETAIL D
SCALE 1:40



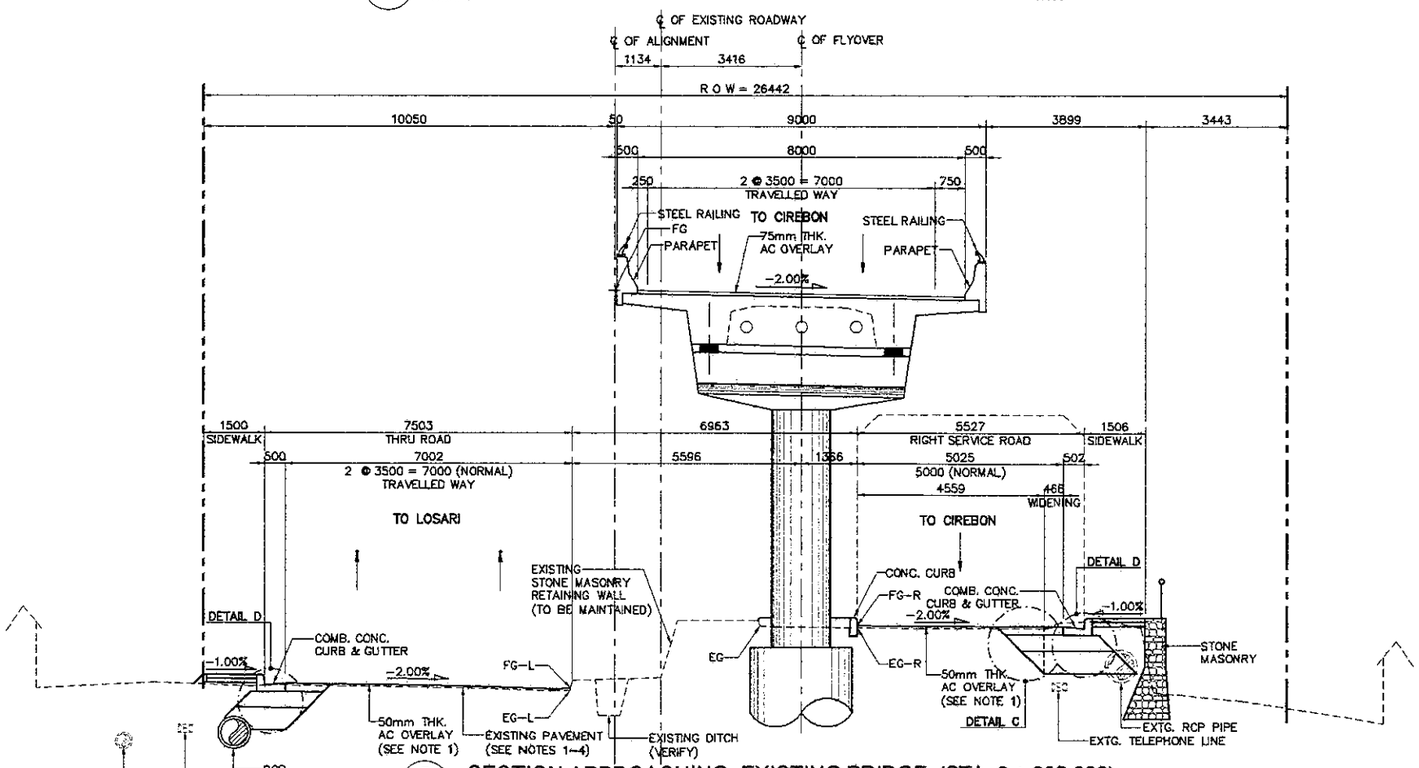
NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
3. EXISTING PAVEMENT SHALL BE SCARIFIED PRIOR TO LEVELING AND OVERLAYING.
4. PROPERLY SAW-CUT EXISTING ROAD 0.20m TO 1.0m FROM EDGE OF AC PAVEMENT OR AS DIRECTED BY THE ENGINEER TO PROVIDE CLEAN, VERTICAL EDGE FOR JOINING TO NEW AC PAVEMENT.
5. ALL AFFECTED UTILITIES SHALL BE RELOCATED PRIOR TO ACTUAL CONSTRUCTION.
6. EXISTING USABLE PAVEMENT GREATER THAN 1.0m SHALL BE OVERLAID AS PART OF SERVICE ROAD AND MAIN ROAD. ALL ELEVATIONS AND DIMENSIONS SHALL BE VERIFIED TO SUIT ACTUAL FIELD CONDITIONS. ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.

6 SECTION AT EXISTING OLD / NEW BRIDGES (STA. 0 + 440.000)
SCALE 1:150

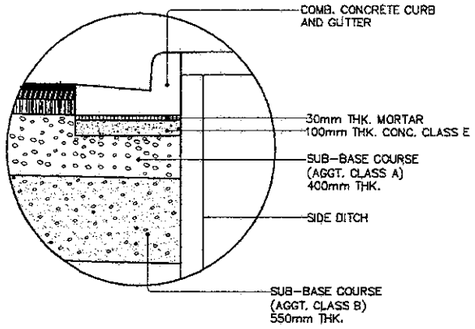


DETAIL C
SCALE 1:40

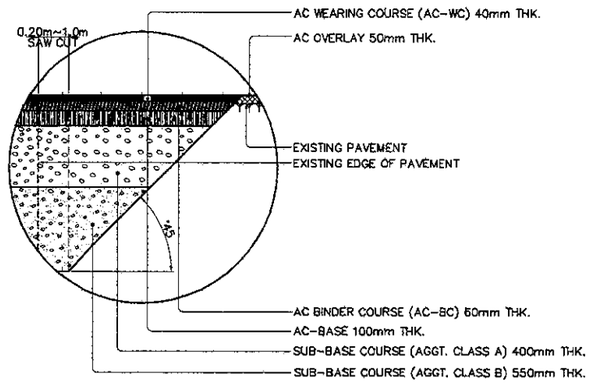


5 SECTION APPROACHING EXISTING BRIDGE (STA. 0 + 396.000)
SCALE 1:150

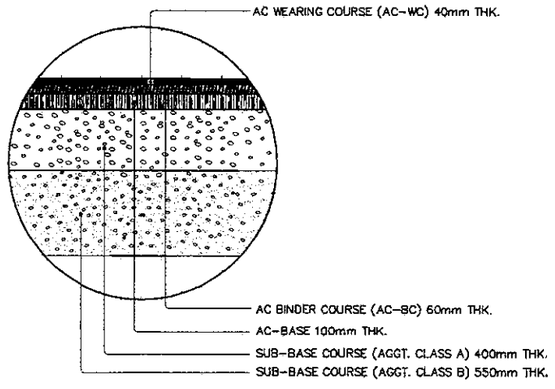
JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 150	TYPICAL ROAD CROSS SECTION (4 OF 7)	GRD-018
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc — NIP. : 110038400 — Sign		FULL SIZE A3		SHEET NO : 18 / 69
	Date	Date	Date	Date				



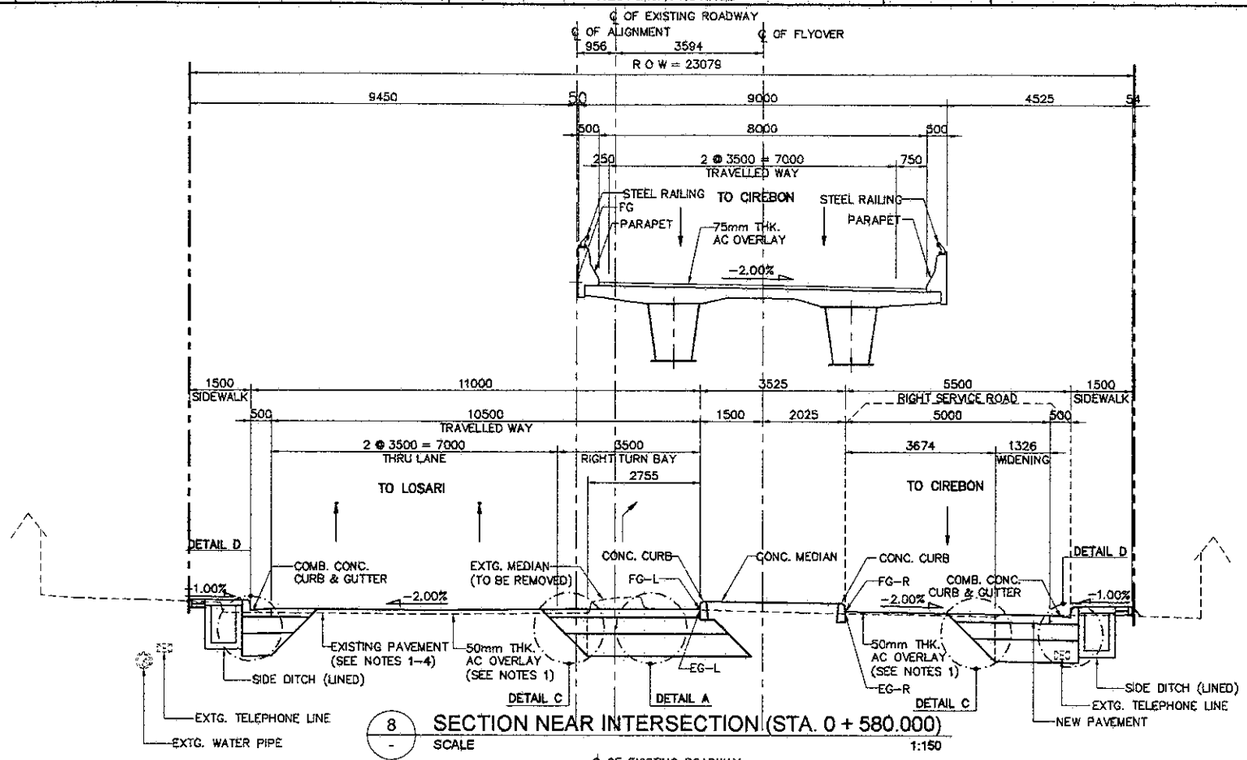
DETAIL D
SCALE 1:40



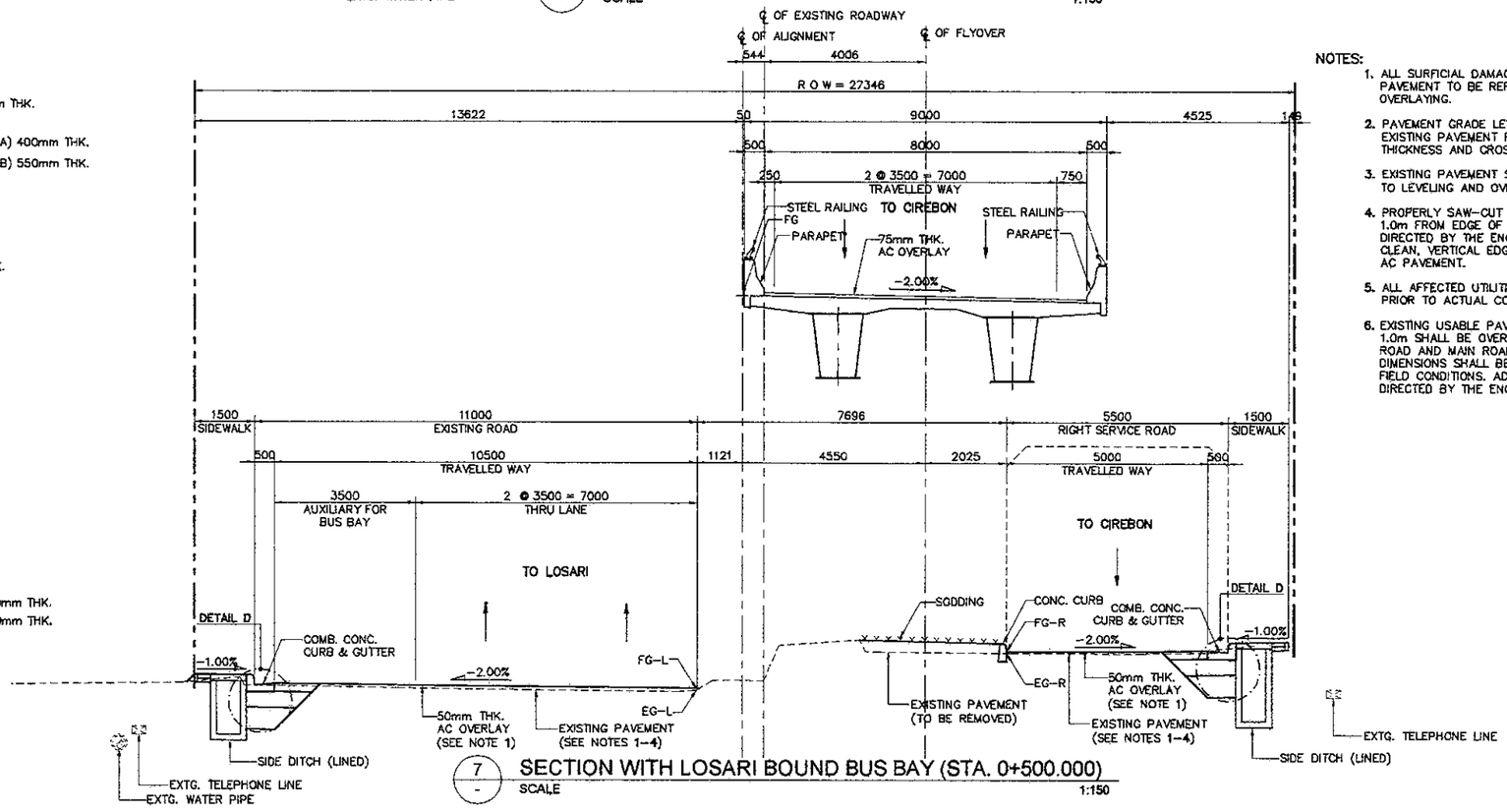
DETAIL C
SCALE 1:40



DETAIL A
SCALE 1:40



8 SECTION NEAR INTERSECTION (STA. 0 + 580.000)
SCALE 1:150

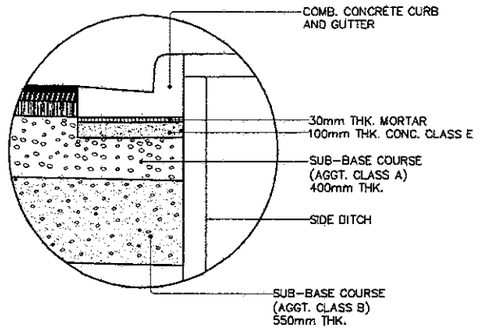


7 SECTION WITH LOSARI BOUND BUS BAY (STA. 0+500.000)
SCALE 1:150

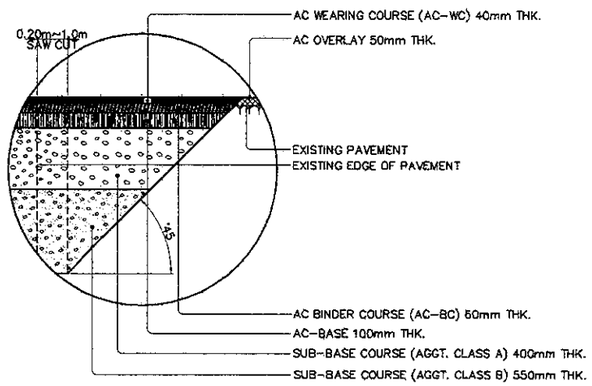
NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
3. EXISTING PAVEMENT SHALL BE SCARIFIED PRIOR TO LEVELING AND OVERLAYING.
4. PROPERLY SAW-CUT EXISTING ROAD 0.20m TO 1.0m FROM EDGE OF AC PAVEMENT OR AS DIRECTED BY THE ENGINEER TO PROVIDE CLEAN, VERTICAL EDGE FOR JOINING TO NEW AC PAVEMENT.
5. ALL AFFECTED UTILITIES SHALL BE RELOCATED PRIOR TO ACTUAL CONSTRUCTION.
6. EXISTING USABLE PAVEMENT GREATER THAN 1.0m SHALL BE OVERLAID AS PART OF SERVICE ROAD AND MAIN ROAD. ALL ELEVATIONS AND DIMENSIONS SHALL BE VERIFIED TO SUIT ACTUAL FIELD CONDITIONS. ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 150	TYPICAL ROAD CROSS SECTION (5 OF 7)	GRD-019
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO :
	Date	Date	Date	Sign / Date		FULL SIZE A3		19 / 69



DETAIL D
SCALE 1:40



DETAIL C
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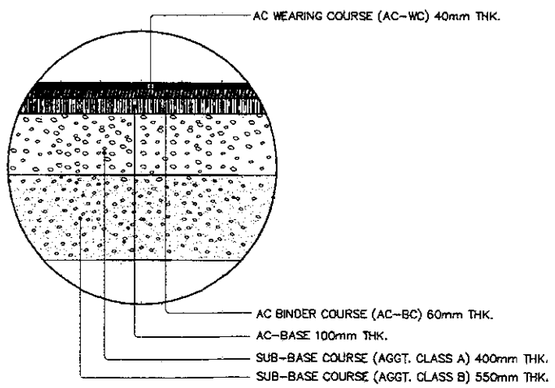
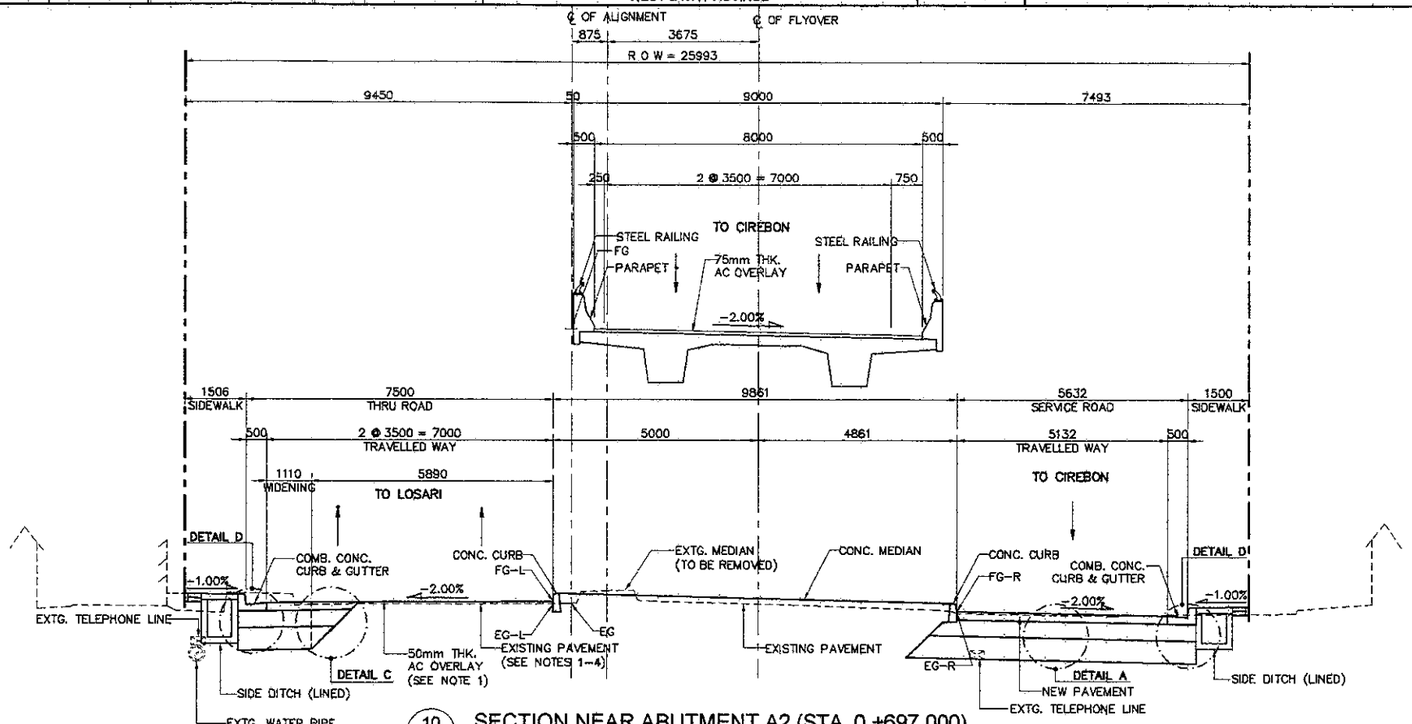
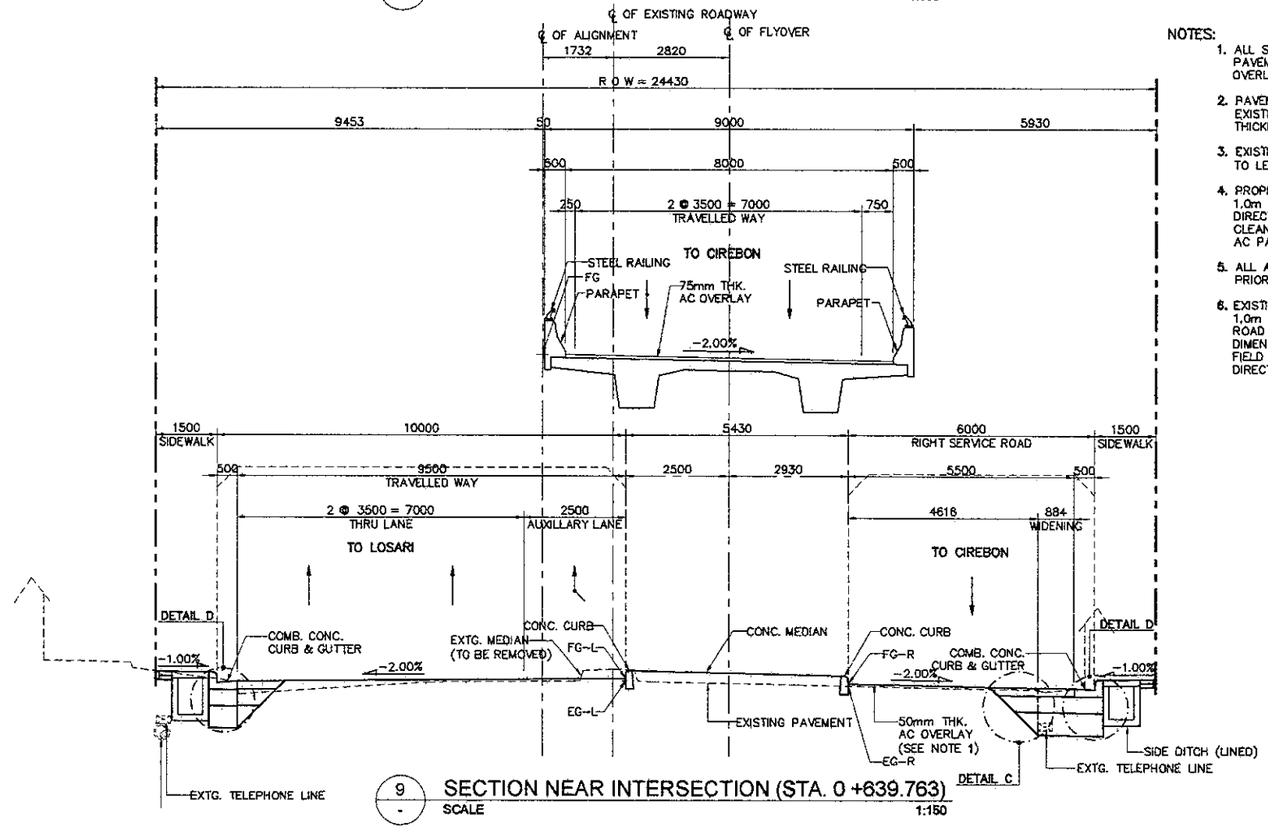


DETAIL A
SCALE 1:40



10 SECTION NEAR ABUTMENT A2 (STA. 0 +697.000)
SCALE 1:150



9 SECTION NEAR INTERSECTION (STA. 0 +639.763)
SCALE 1:150

NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
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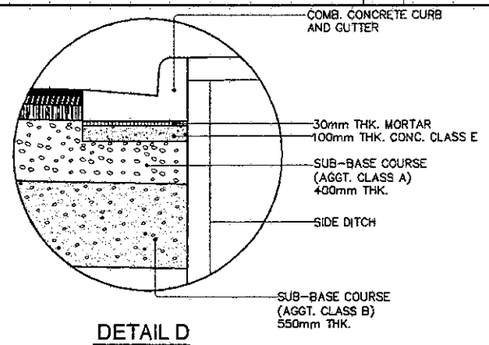
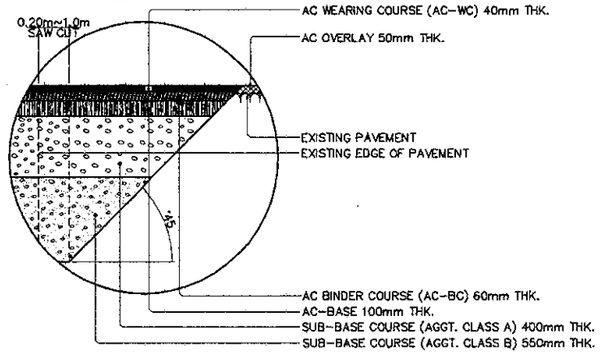
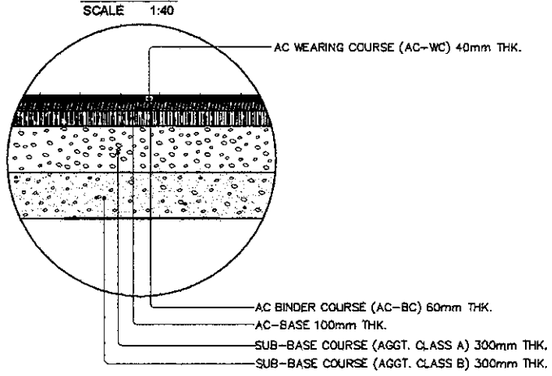
JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 150	TYPICAL ROAD CROSS SECTION (6 OF 7)	GRD-020
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO : 20 / 69
	Date	Date	Date	Sign / Date		FULL SIZE A3		



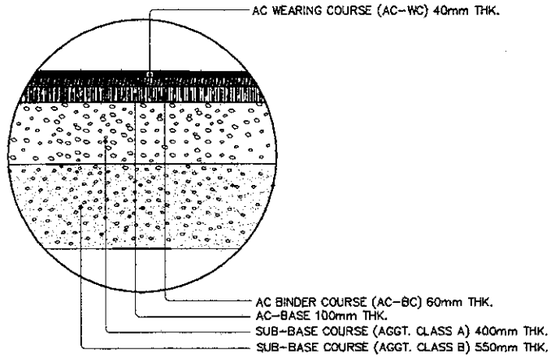
DETAIL D
SCALE 1:40



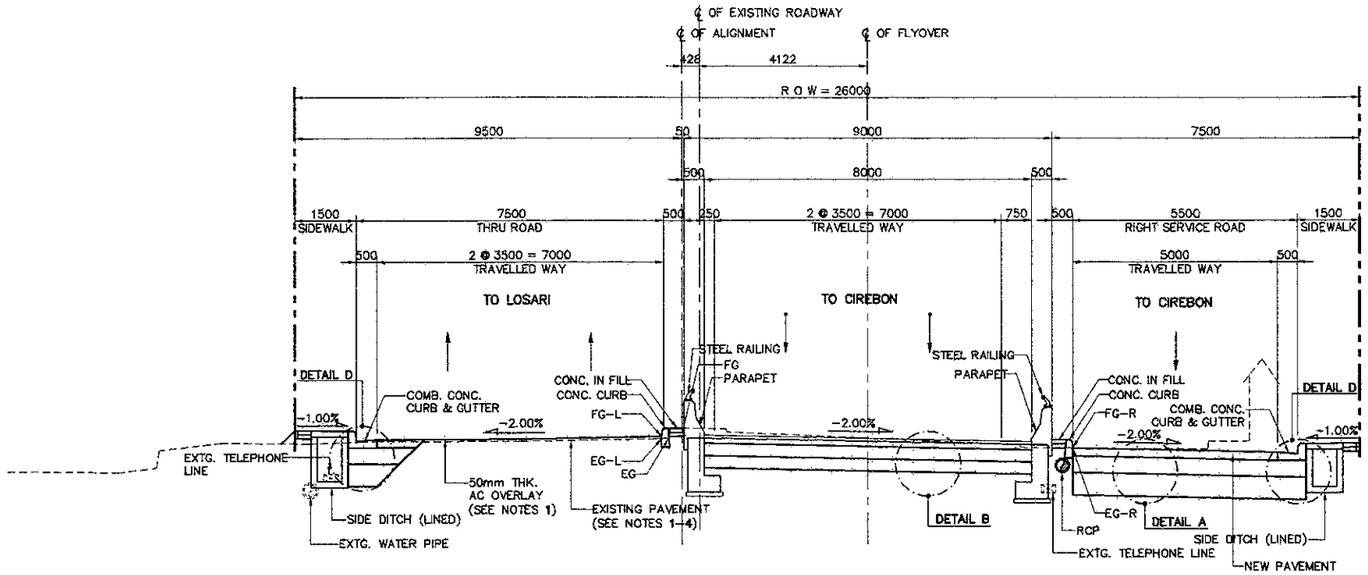
DETAIL C
SCALE 1:40



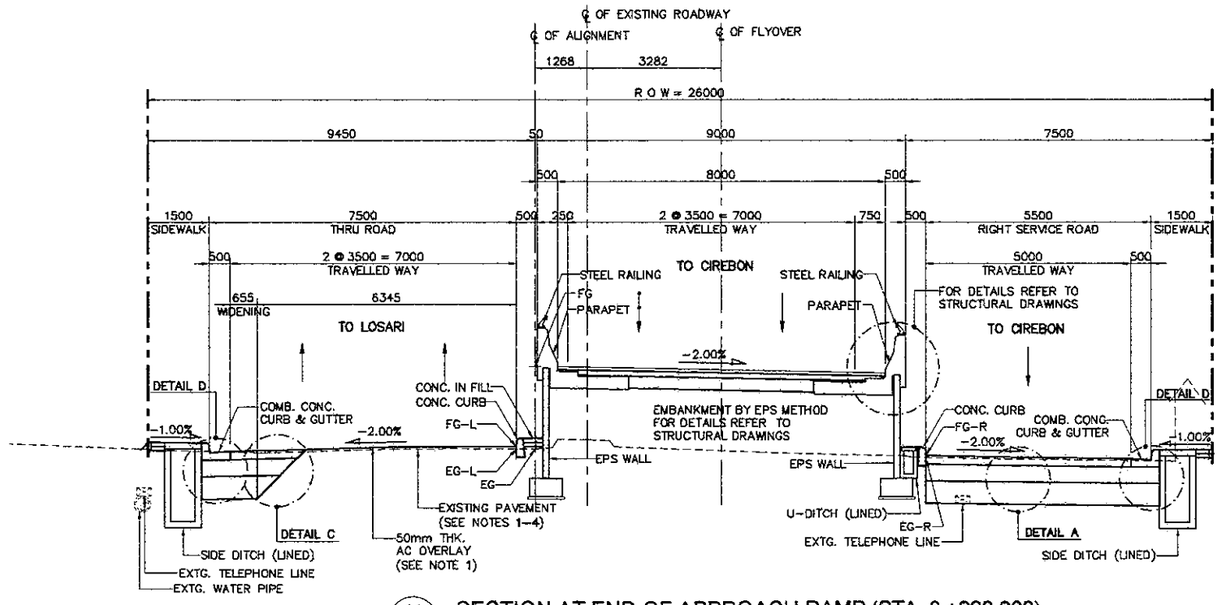
DETAIL B
SCALE 1:40



DETAIL A
SCALE 1:40



12 - SECTION AT END OF FLYOVER (STA. 0 +908.000)
SCALE 1:150



11 - SECTION AT END OF APPROACH RAMP (STA. 0 +820.000)
SCALE 1:150

NOTES:

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
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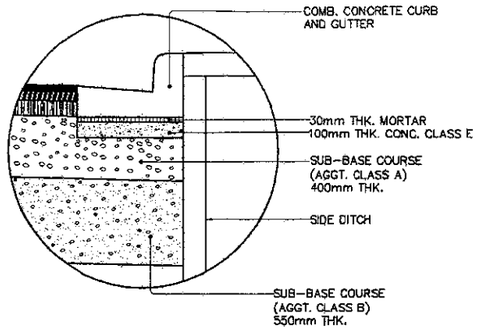
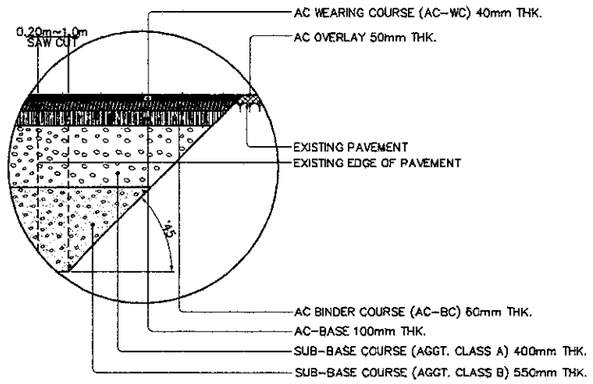
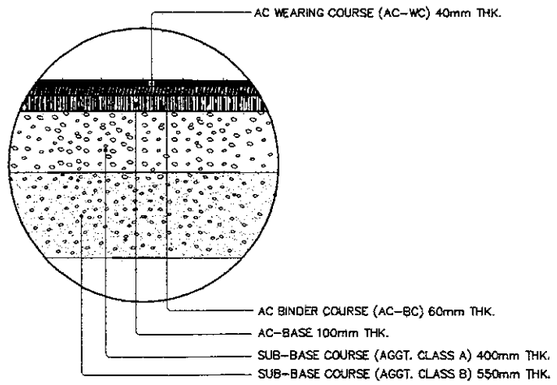
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name R. UENO	Name T. OKUMURA	Name M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 150	TYPICAL ROAD CROSS SECTION (7 OF 7)	GRD-021
	Sign	Sign	Sign	APPROVED BY Ir. HERRY VAZA M,Eng.Sc Sign				SHEET NO :
	Date	Date	Date	NIP. : 110038400 Date		FULL SIZE A3		21 / 69



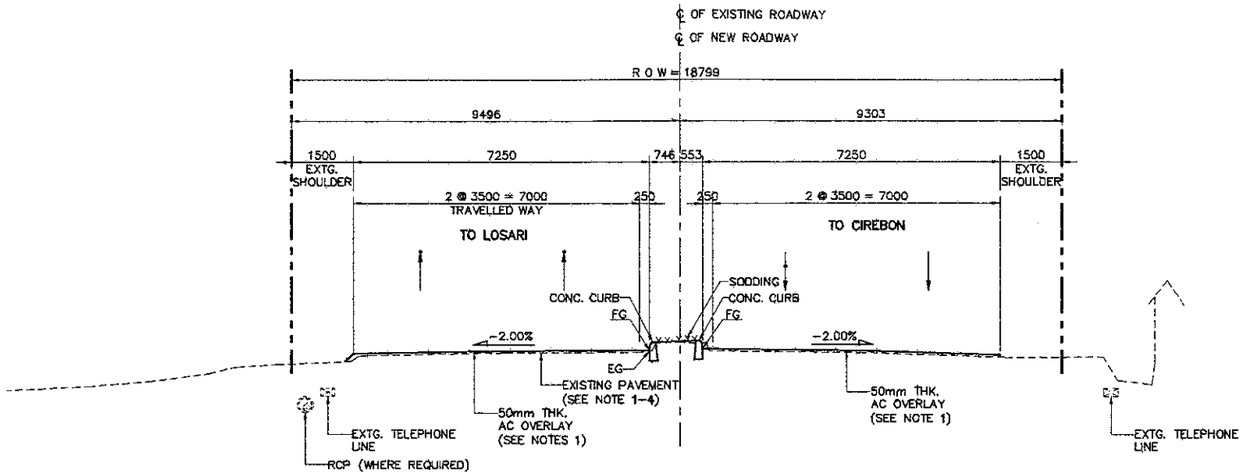
DETAIL D
SCALE 1:40



DETAIL C
SCALE 1:40



DETAIL A
SCALE 1:40



14 - SECTION END OF PROJECT (STA. 1 +060.000)
SCALE 1:150

NOTES;

1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
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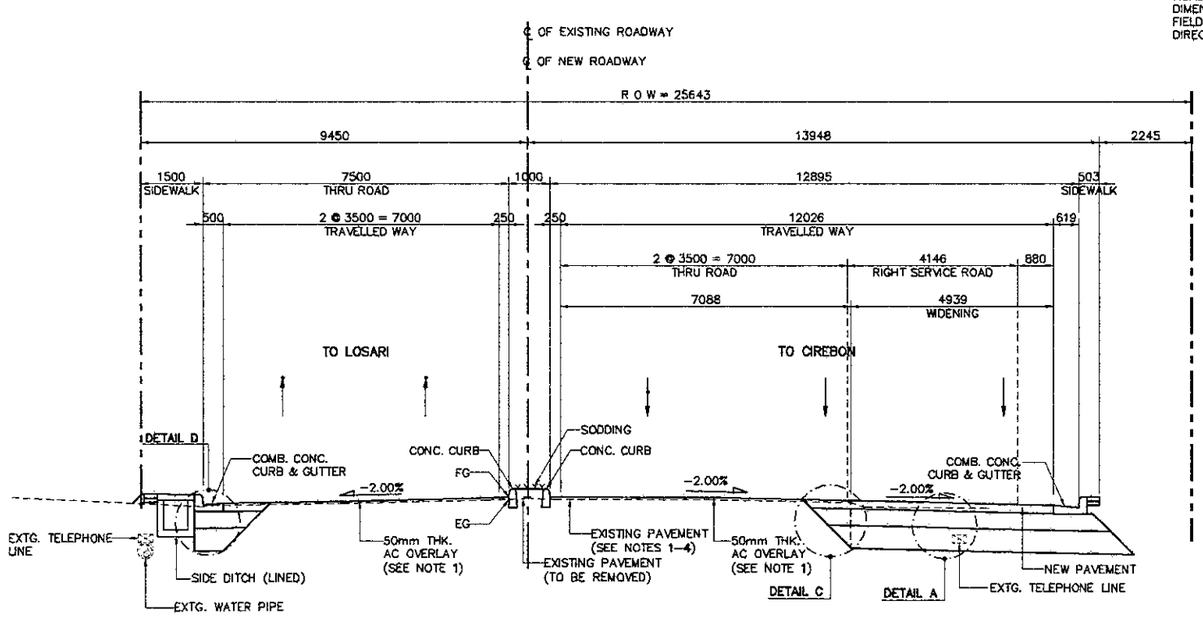
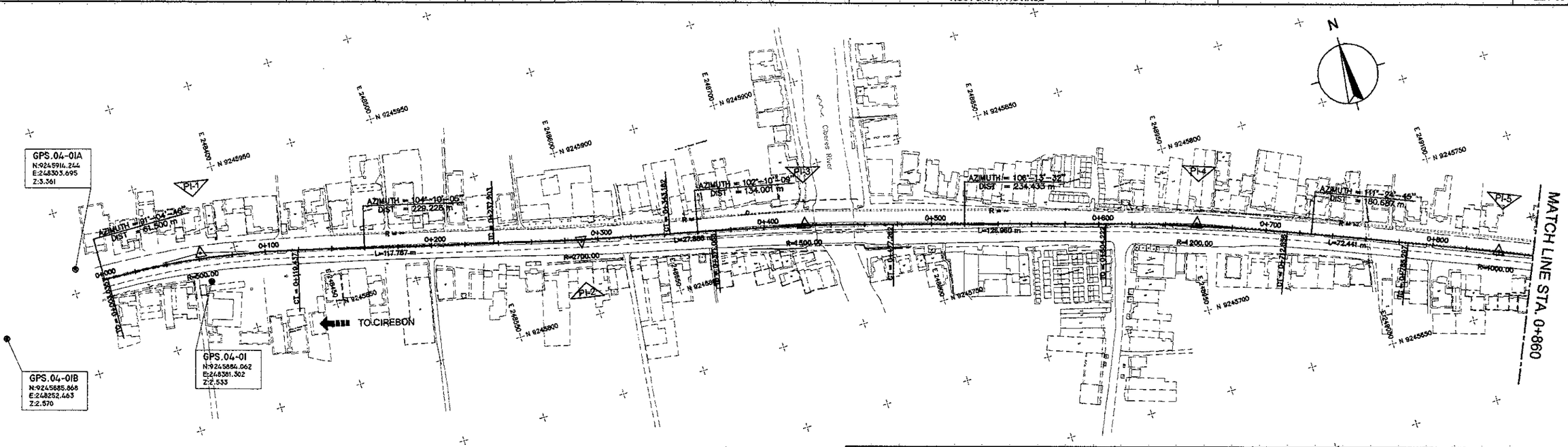
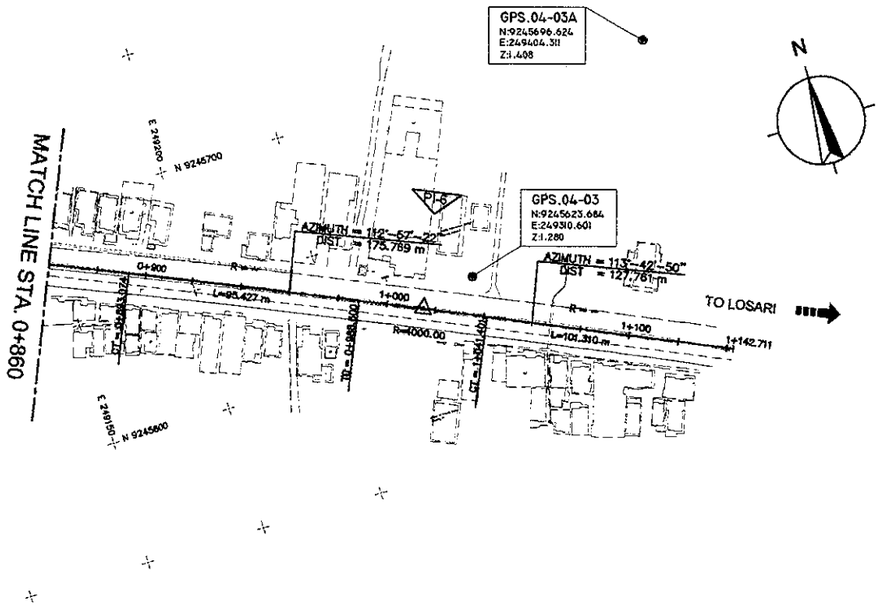


13 - SECTION NEAR END OF PROJECT (STA. 0 +960.000)
SCALE 1:150

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 2500	ALIGNMENT LAYOUT AND CURVE ELEMENTS	GRD-022
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO :
	Date	Date	Date	Sign / Date		FULL SIZE A3		22 / 69





CURVE ELEMENTS

BP			PI - 1	PI - 2	PI - 3	PI - 4	PI - 5	PI - 6		EP	
STA	0+000	V (Km/Hours)	60	60	60	60	60	60	V (Km/Hours)	STA	1+142.711
N	9245903.497	TYPE	RIGHT	LEFT	RIGHT	RIGHT	RIGHT	RIGHT	TYPE	N	9245585.607
E	248317.946	Δ	13°-20'-19"	2°-14'-56"	4°-03'-23"	5°-11'-13"	1°-32'-38"	0°-45'-28"	Δ	E	249404.566
		R (m)	500	2700	1500	1200	4000	4000	R (m)		
		A (m)							A (m)		
		TS / TC (m)	58.468	52.992	53.117	54.355	53.891	26.457	TS / TC (m)		
		LC (m)	116.407	105.971	106.190	108.635	107.778	52.913	LC (m)		
		LS (m)							LS (m)		
		L (m)	116.407	105.971	106.190	108.635	107.776	52.913	L (m)		
		e max (%)	3.5	Normal = 2	Normal = 2	Normal = 2	Normal = 2	Normal = 2	e max (%)		
		PI STA	0+061.500	0+290.199	0+424.187	0+658.576	0+839.188	1+014.951	STA	PI	
		PI N	9245902.339	9245845.282	9245817.014	9245751.509	9245685.544	9245616.989	N	PI	
		PI E	248379.435	248801.443	248732.434	248957.529	249125.744	249287.593	E	PI	
		TS/SS STA							STA	TS/SS	
		TS/SS N							N	TS/SS	
		TS/SS E							E	TS/SS	
		SC/TC /CC STA	0+003.035	0+237.203	0+371.068	0+604.222	0+785.297	0+988.500	STA	SC/TC /CC	
		SC/TC /CC N	9245903.440	9245858.457	9245828.212	9245766.696	9245705.219	9245627.305	N	SC/TC /CC	
		SC/TC /CC E	248320.980	248550.116	248680.508	248905.340	49075.572	249263.237	E	SC/TC /CC	
		CS/CT /CC STA	0+119.437	0+343.182	0+477.262	0+712.856	0+893.074	1+041.401	STA	CS/CT /CC	
		CS/CT /CC N	9245887.781	9245834.090	9245802.171	9245731.665	9245664.525	9245606.351	N	CS/CT /CC	
		CS/CT /CC E	248436.059	248653.248	248783.437	249008.132	249175.368	249311.810	E	CS/CT /CC	
		ST/SS STA							STA	ST/SS	
		ST/SS N							N	ST/SS	
		ST/SS E							E	ST/SS	
91-04-46		AZIMUTH	104-25-05	102-10-09	106-13-32	111-24-45	112-57-22	113-42-50	AZIMUTH		113-42-50

REFERENCE PEGS LAYOUT

	GPS.04-01A	GPS.04-01B	GPS.04-03	GPS.04-03A
N	9245914.244	9245885.868	9245623.684	9245696.624
E	248303.695	248252.463	249310.601	249404.311
Z	3.361	2.570	1.280	1.408

1 ALIGNMENT LAYOUT AND CURVE ELEMENTS
SCALE 1:2500

JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc, NIP. : 110038400	DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (NAGREG - GEBANG) WEST JAVA PROVINCE	1 : 500	GEOMETRIC LAYOUT PLAN AT INTERSECTION	GRD-023
	Sign	Sign	Sign	Sign		FULL SIZE A3		SHEET NO : 23 / 69
	Date	Date	Date	Date				

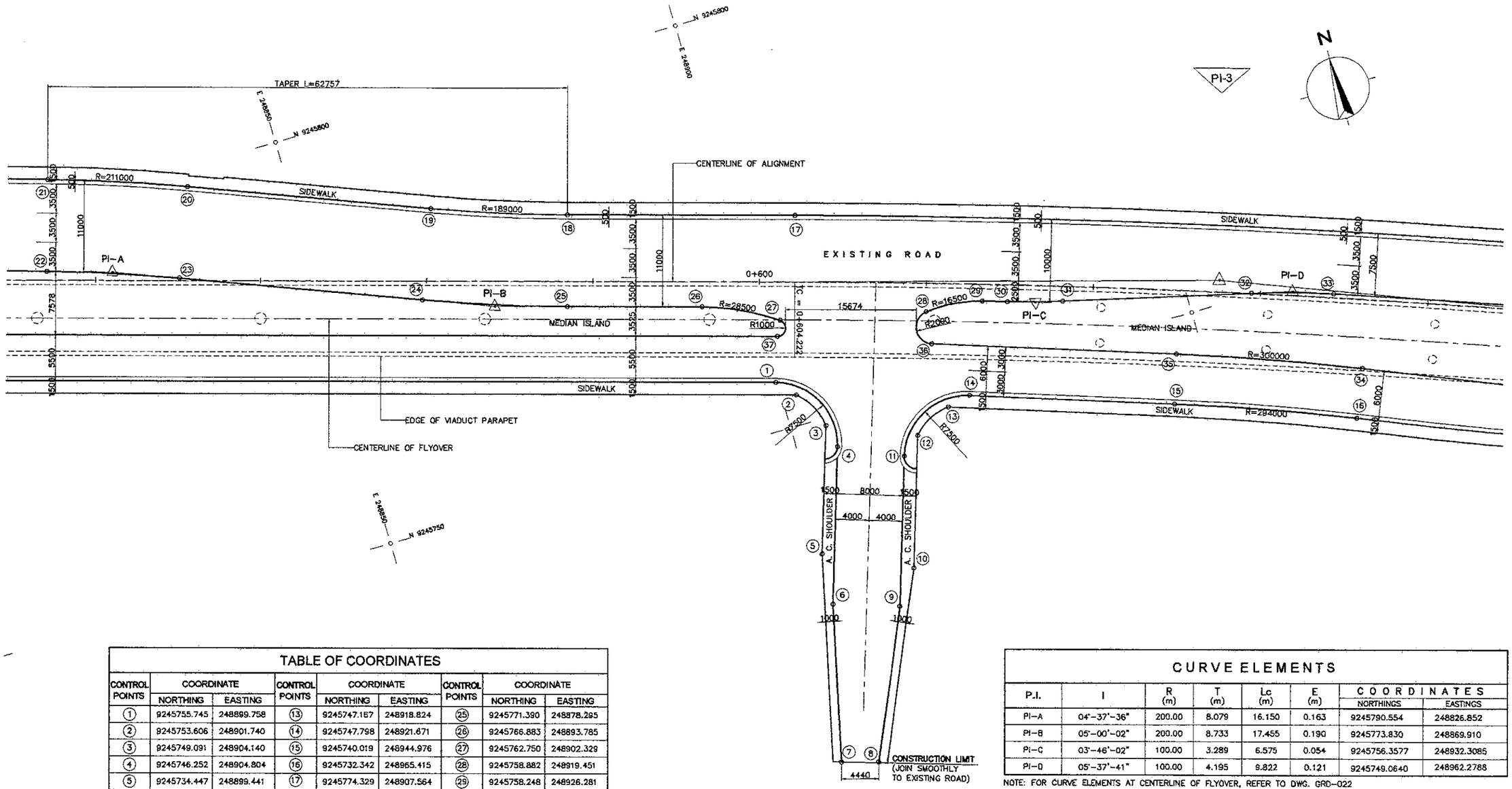


TABLE OF COORDINATES

CONTROL POINTS	COORDINATE NORTHING	COORDINATE EASTING	CONTROL POINTS	COORDINATE NORTHING	COORDINATE EASTING	CONTROL POINTS	COORDINATE NORTHING	COORDINATE EASTING
1	9245755.745	248899.758	13	9245747.167	248918.824	25	9245771.390	248878.295
2	9245753.606	248901.740	14	9245747.798	248921.671	26	9245766.883	248893.785
3	9245749.091	248904.140	15	9245740.019	248944.976	27	9245762.750	248902.329
4	9245746.252	248904.804	16	9245732.342	248965.415	28	9245758.882	248919.451
5	9245734.447	248899.441	17	9245774.329	248907.564	29	9245758.248	248926.281
6	9245728.284	248899.039	18	9245781.952	248881.369	30	9245757.344	248929.171
7	9245709.858	248894.767	19	9245787.246	248865.752	31	9245755.580	248935.504
8	9245708.654	248899.042	20	9245797.883	248838.366	32	9245750.225	248957.503
9	9245725.840	248906.656	21	9245803.404	248822.252	33	9245747.439	248966.918
10	9245729.784	248909.497	22	9245792.862	248819.109	34	9245737.877	248967.732
11	9245742.976	248912.155	23	9245787.629	248834.383	35	9245745.710	248946.876
12	9245744.898	248914.347	24	9245776.992	248861.769	36	9245754.998	248919.051
						37	9245760.975	248901.470

CURVE ELEMENTS

P.I.	I	R (m)	T (m)	Lc (m)	E (m)	COORDINATES NORTHINGS	COORDINATES EASTINGS
PI-A	04°-37'-36"	200.00	8.079	16.150	0.163	9245790.554	248826.852
PI-B	05°-00'-02"	200.00	8.733	17.455	0.190	9245773.830	248869.910
PI-C	03°-46'-02"	100.00	3.289	6.575	0.054	9245756.3577	248932.3085
PI-D	05°-37'-41"	100.00	4.195	8.822	0.121	9245749.0640	248962.2788

NOTE: FOR CURVE ELEMENTS AT CENTERLINE OF FLYOVER, REFER TO DWG. GRD-022

NOTES:

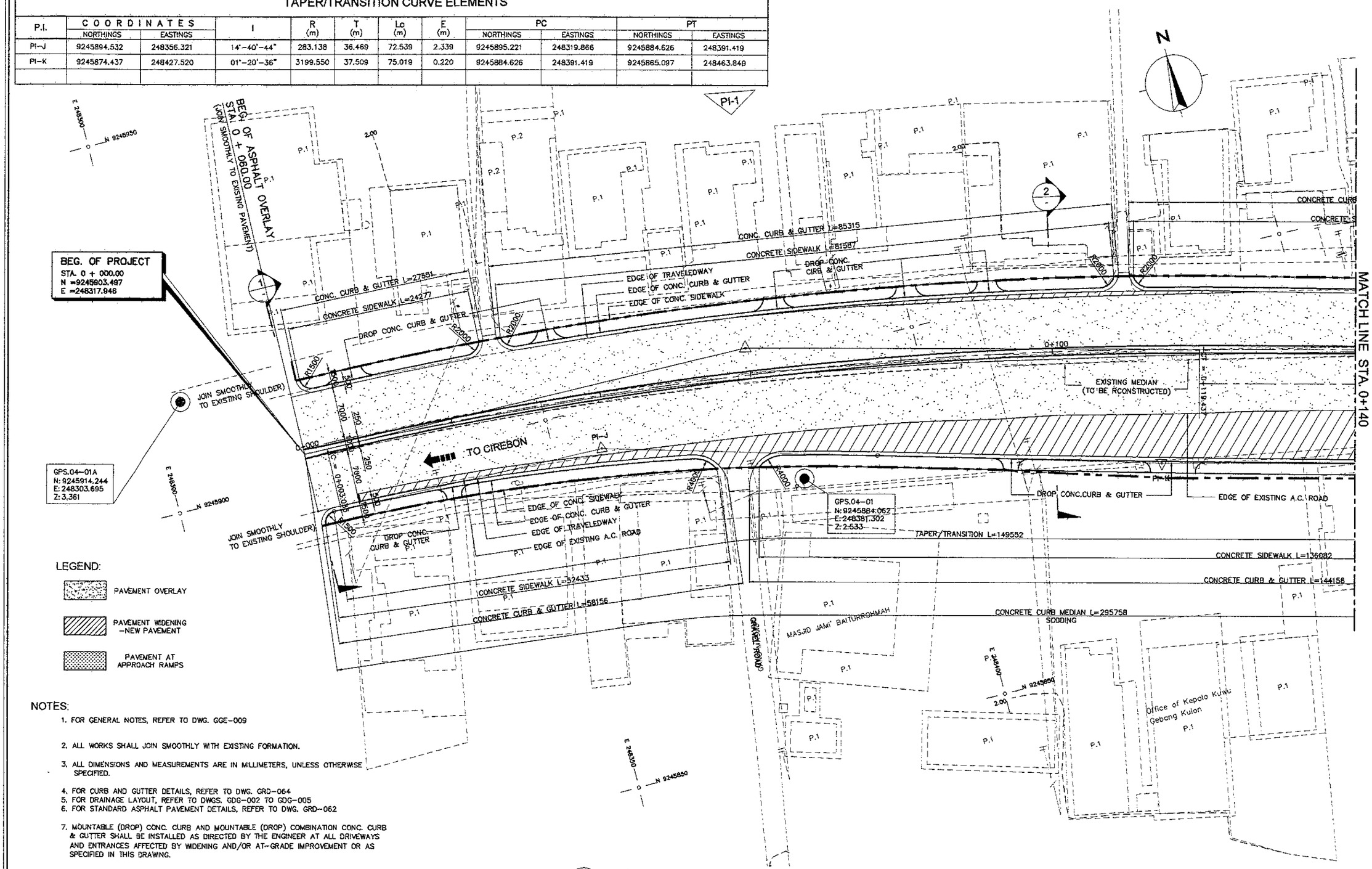
1. FOR GENERAL NOTES, REFER TO DWG GGE-009
2. ALL DIMENSIONS AND MEASUREMENTS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
3. ALL COORDINATES SHALL BE VERIFIED DURING CONSTRUCTION.
4. OFFSET TO SET OUT CONTROL POINTS ARE MEASURED PERPENDICULAR TO THE DESIGN LINE.
5. ALL HORIZONTAL AND VERTICAL GEOMETRY AT CONNECTIONS/TIE-INS SHALL BE VERIFIED DURING CONSTRUCTION.

1 / - GEOMETRIC LAYOUT PLAN AT INTERSECTION
SCALE 1:500

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (GEBANG FLYOVER & NAGREG FLYOVER) WEST JAVA PROVINCE	1 : 500	DETAILED CONSTRUCTION LAYOUT PLAN 1 OF 7	GRD-024
	Sign	Sign	Sign					SHEET NO :
	Date	Date	Date	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400 — Sign / Date		FULL SIZE A3		24 / 69

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES		I	R (m)	T (m)	Lc (m)	E (m)	PC		PT	
	NORTHINGS	EASTINGS						NORTHINGS	EASTINGS	NORTHINGS	EASTINGS
PI-J	9245894.532	248356.321	14°-40'-44"	283.138	36.469	72.539	2.339	9245895.221	248319.866	9245884.626	248391.419
PI-K	9245874.437	248427.520	01°-20'-36"	3199.550	37.509	75.019	0.220	9245884.626	248391.419	9245865.097	248463.849



LEGEND:

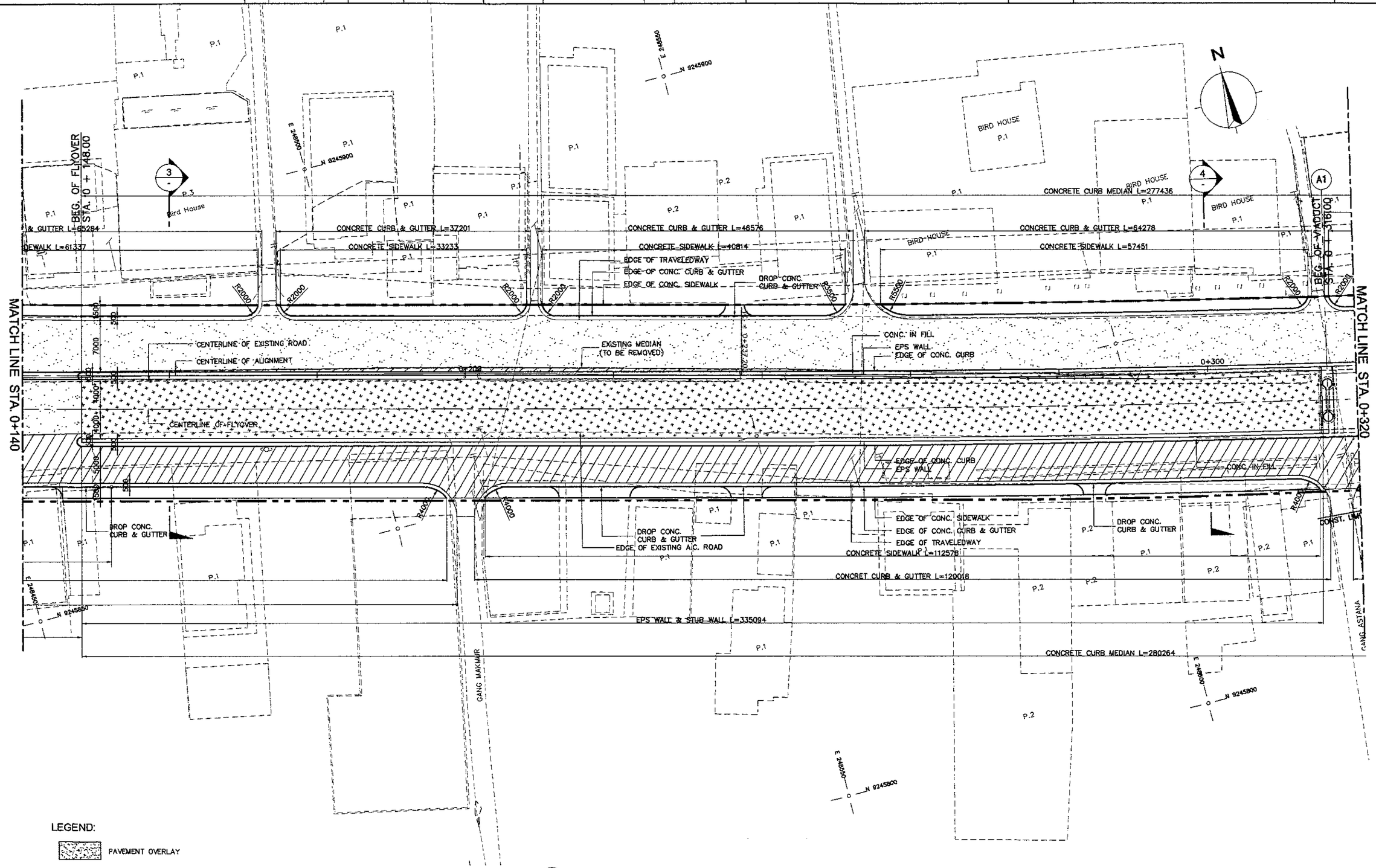
- PAVEMENT OVERLAY
- PAVEMENT WIDENING –NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

NOTES:

1. FOR GENERAL NOTES, REFER TO DWG. GGE-009
2. ALL WORKS SHALL JOIN SMOOTHLY WITH EXISTING FORMATION.
3. ALL DIMENSIONS AND MEASUREMENTS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
4. FOR CURB AND GUTTER DETAILS, REFER TO DWG. GRD-064
5. FOR DRAINAGE LAYOUT, REFER TO DWGS. GDG-002 TO GDG-005
6. FOR STANDARD ASPHALT PAVEMENT DETAILS, REFER TO DWG. GRD-062
7. MOUNTABLE (DROP) CONC. CURB AND MOUNTABLE (DROP) COMBINATION CONC. CURB & GUTTER SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER AT ALL DRIVEWAYS AND ENTRANCES AFFECTED BY WIDENING AND/OR AT-GRADE IMPROVEMENT OR AS SPECIFIED IN THIS DRAWING.
8. FOR CURVE ELEMENTS OF FLYOVER CENTERLINE ALIGNMENT, REFER TO DWG. GRD-022
9. ALL HORIZONTAL AND VERTICAL GEOMETRY AT CONNECTIONS/TIE-INS SHALL BE VERIFIED ON SITE BEFORE CONSTRUCTION.
10. FOR GEOMETRIC LAYOUT AT INTERSECTION, REFER TO DWG. GRD-023

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name R. UENO	Name T. OKUMURA	Name M. KIUCHI	APPROVED BY Ir. HERRY VAZA M,Eng.Sc	DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (GEBANG FLYOVER & NAGREG FLYOVER) WEST JAVA PROVINCE	1 : 500	DETAILED CONSTRUCTION LAYOUT PLAN 2 OF 7	GRD-025
	Sign	Sign	Sign	NIP. : 110038400 Sign				SHEET NO :
	Date	Date	Date	Date		FULL SIZE A3		25 / 69



LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING –NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

NOTE:

1. FOR SPECIFIC NOTES, REFER TO DWG. GRD–024

JICA JAPAN INTERNATIONAL COOPERATION AGENCY KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY		CHECKED BY		SUBMITTED BY	
	Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
	Sign		Sign		Sign	
	Date		Date		Date	

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

APPROVED BY | Ir. HERRY VAZA M,Eng.Sc | Sign
NIP. : 110038400 | Date

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
GEBANG FLYOVER - CONTRACT PACKAGE 2
(GEBANG FLYOVER & NAGREG FLYOVER)
WEST JAVA PROVINCE

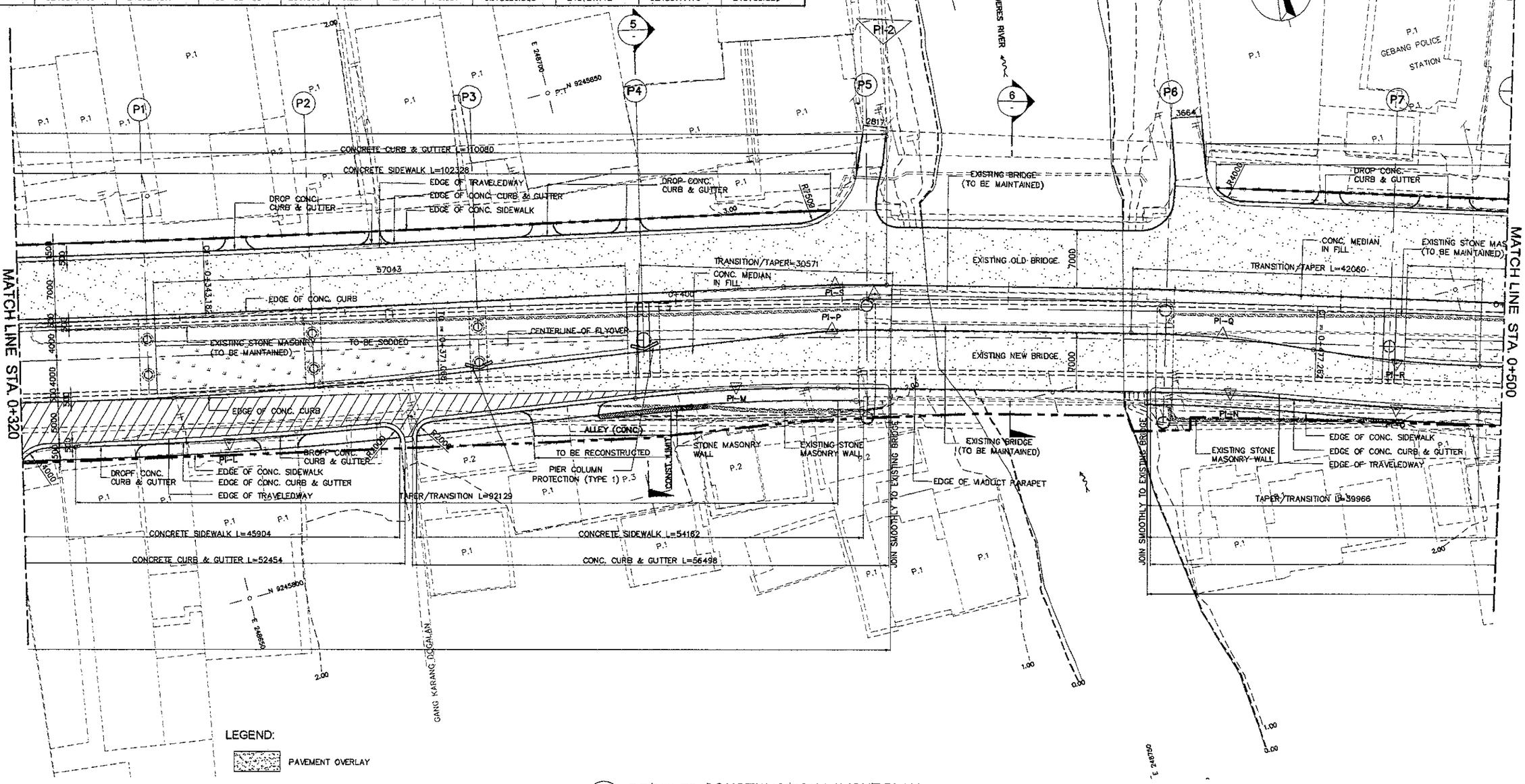
SCALE : 1 : 500
FULL SIZE A3

DRAWING TITLE :
DETAILED CONSTRUCTION LAYOUT PLAN 3 OF 7

DRAWING NO : GRD-026
SHEET NO : 26 / 69

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES NORTHINGS	COORDINATES EASTINGS	I	R (m)	T (m)	Lc (m)	E (m)	PC NORTHINGS	PC EASTINGS	PT NORTHINGS	PT EASTINGS
PI-L	9245818.757	248652.201	04°-13'-53"	505.500	18.674	37.331	0.345	9245815.992	248670.669	9245822.877	248633.987
PI-M	9245810.105	248713.190	07°-12'-43"	194.500	12.257	24.482	0.386	9245811.776	248701.047	9245806.924	248725.027
PI-N	9245794.665	248770.627	04°-51'-52"	235.353	9.997	19.982	0.212	9245797.261	248760.973	9245791.260	248780.026
PI-O	9245787.842	248789.461	03°-41'-15"	311.734	10.035	20.064	0.161	9245785.038	248799.097	9245791.260	248780.026
PI-P	9245813.815	248726.580	07°-18'-03"	103.849	6.625	13.233	0.211	9245812.085	248732.976	9245814.718	248720.017
PI-Q	9245801.694	248771.552	08°-45'-24"	144.506	11.064	22.085	0.423	9245797.224	248781.673	9245804.572	248760.869
PI-R	9245793.159	248790.875	07°-36'-22"	151.339	10.060	20.091	0.334	9245797.224	248781.673	9245790.348	248800.535
PI-S	9245819.100	248727.811	09°-33'-59"	200.000	6.227	12.449	0.097	9245820.353	248721.712	9245817.470	248733.820



LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING -NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

NOTE:
1. FOR SPECIFIC NOTES, REFER TO DWG. GRD-024

JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI
	Sign:	Sign:	Sign:
	Date:	Date:	Date:

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

APPROVED BY: Ir. HERRY VAZA M,Eng.Sc — NIP. : 110038400 — Sign: — Date:

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
GEBANG FLYOVER - CONTRACT PACKAGE 2
(GEBANG FLYOVER & NAGREG FLYOVER)
WEST JAVA PROVINCE

SCALE : 1 : 500 — FULL SIZE A3

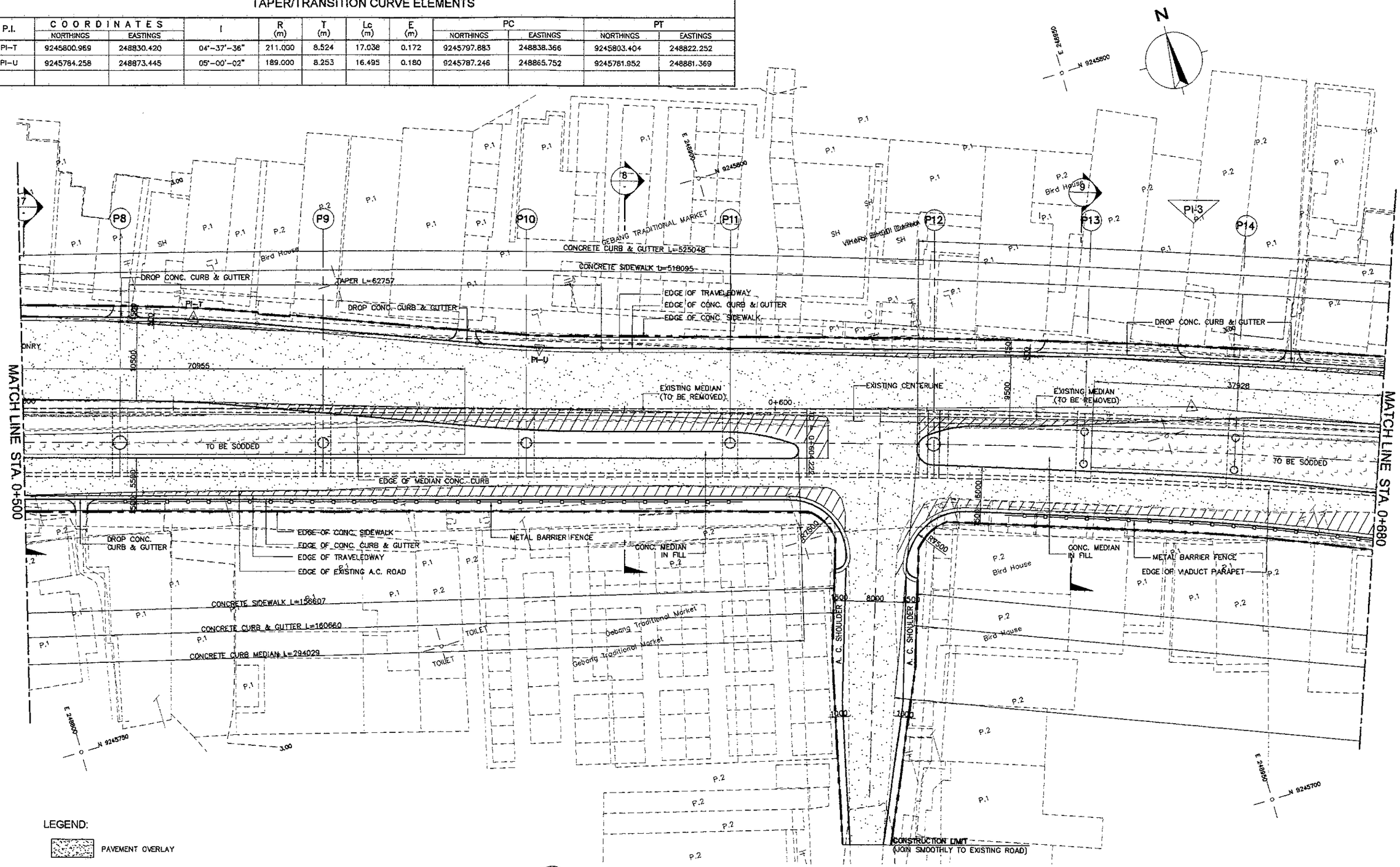
DRAWING TITLE : DETAILED CONSTRUCTION LAYOUT PLAN 4 OF 7

DRAWING NO : GRD-027

SHEET NO : 27 / 69

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES NORTHINGS	COORDINATES EASTINGS	I	R (m)	T (m)	Lc (m)	E (m)	PC NORTHINGS	PC EASTINGS	PT NORTHINGS	PT EASTINGS
PI-T	9245800.969	248830.420	04°-37'-36"	211.000	8.524	17.038	0.172	9245797.883	248838.366	9245803.404	248822.252
PI-U	9245784.258	248873.445	05°-00'-02"	189.000	8.253	16.495	0.180	9245787.246	248865.752	9245781.952	248881.369



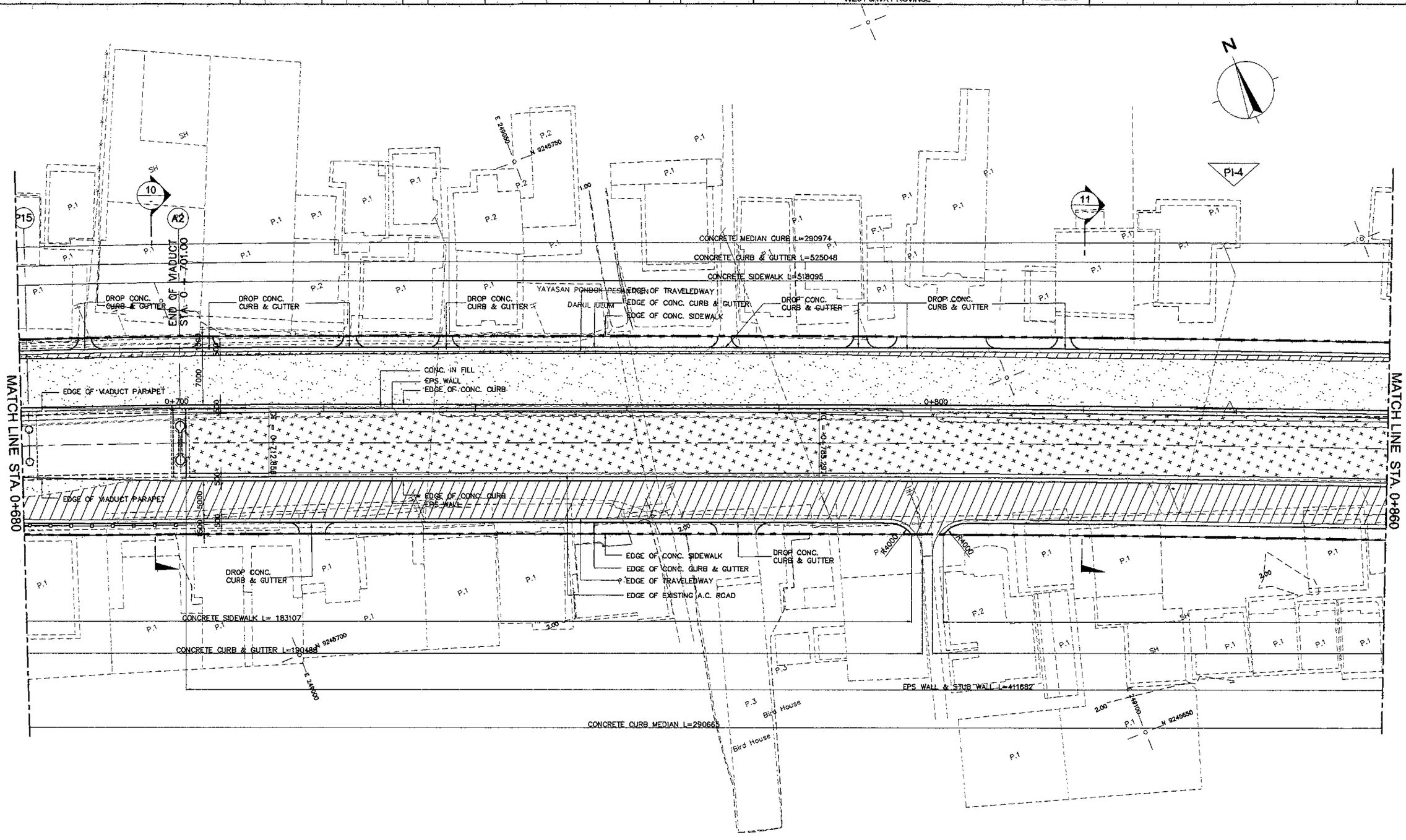
LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING -NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

NOTE:
1. FOR SPECIFIC NOTES, REFER TO DWG. GRD-024

JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name R. UENO	Name T. OKUMURA	Name M. KIUCHI	APPROVED BY Ir. HERRY VAZA M,Eng.Sc	DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (GEBANG FLYOVER & NAGREG FLYOVER) WEST JAVA PROVINCE	1 : 500	DETAILED CONSTRUCTION LAYOUT PLAN 5 OF 7	GRD-028
	Sign	Sign	Sign	NIP. : 110038400 Sign				SHEET NO :
	Date	Date	Date	Date		FULL SIZE A3		28 / 69



LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING →NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

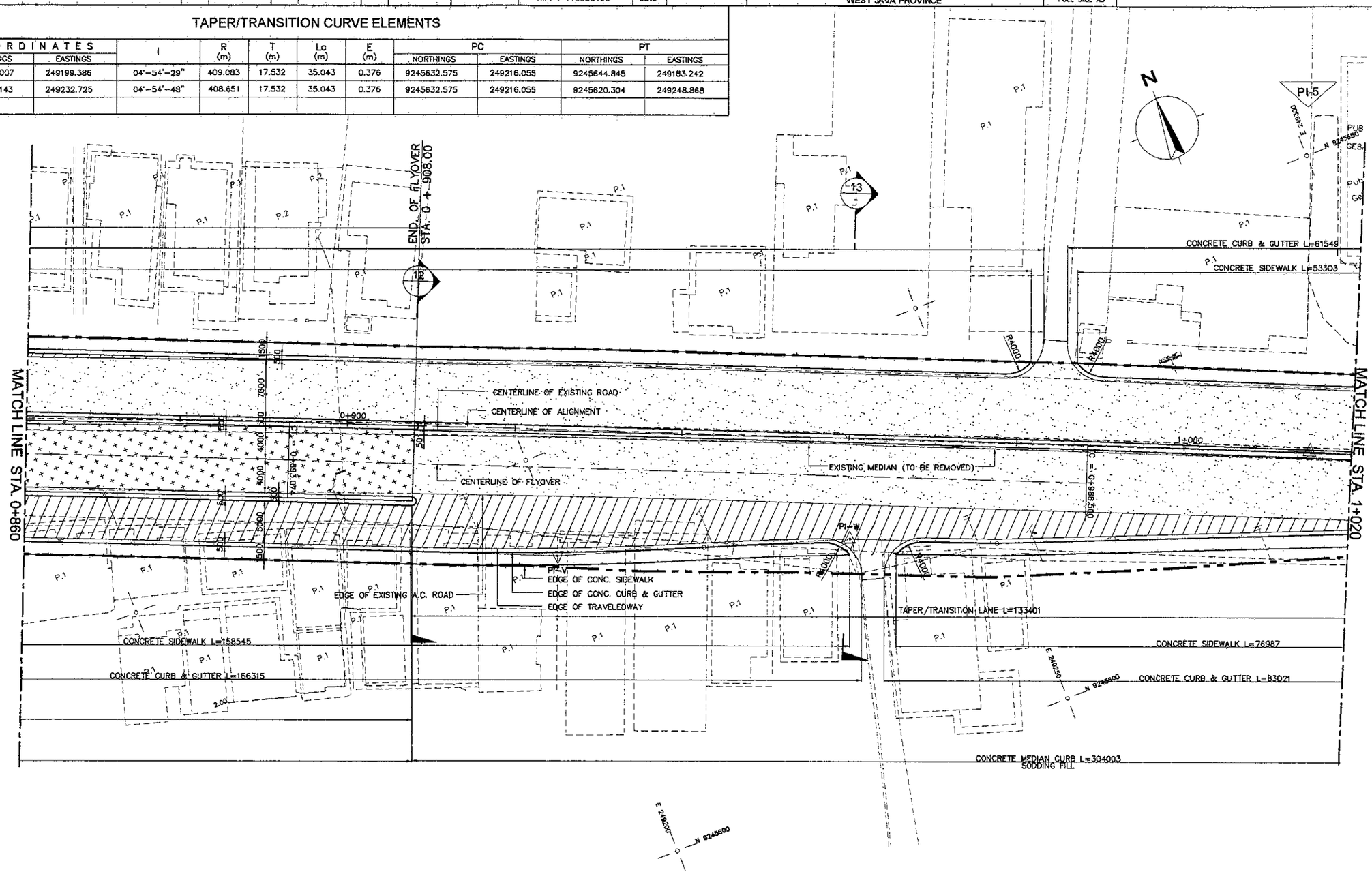
NOTE:

1. FOR SPECIFIC NOTES, REFER TO DWG. GRD-024

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (GEBANG FLYOVER & NAGREG FLYOVER) WEST JAVA PROVINCE	1 : 500 FULL SIZE A3	DETAILED CONSTRUCTION LAYOUT PLAN 6 OF 7	GRD-029 SHEET NO : 29 / 69
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400	Sign			
	Date	Date	Date		Date			

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES		I	R (m)	T (m)	Lc (m)	E (m)	PC		PT	
	NORTHINGS	EASTINGS						NORTHINGS	EASTINGS	NORTHINGS	EASTINGS
PI-V	9245638.007	249199.386	04°-54'-29"	409.083	17.532	35.043	0.376	9245632.575	249216.055	9245644.845	249183.242
PI-W	9245627.143	249232.725	04°-54'-48"	408.651	17.532	35.043	0.376	9245632.575	249216.055	9245620.304	249248.868



LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING -NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

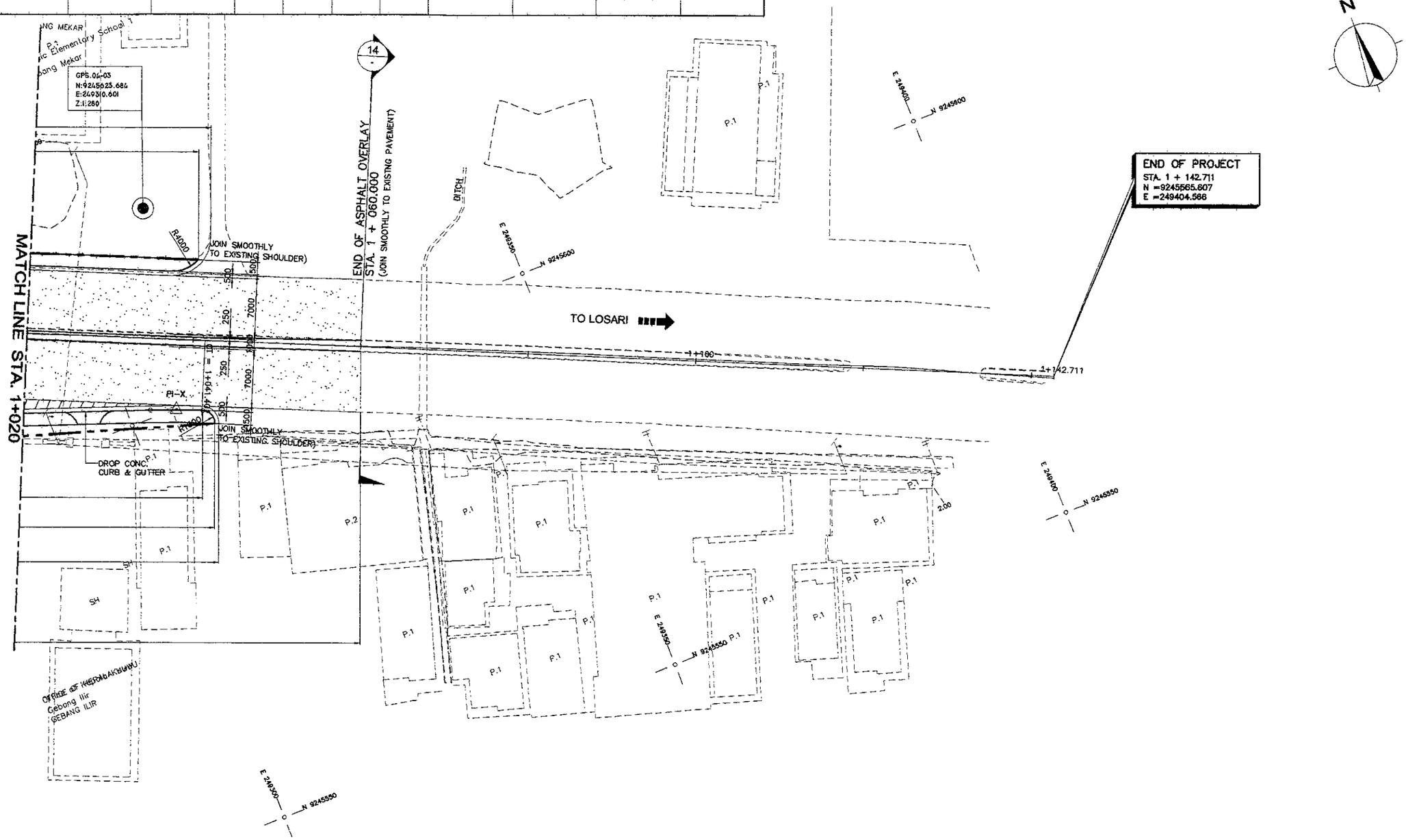
NOTE:

1. FOR SPECIFIC NOTES, REFER TO DWG. GRD-024

JICA JAPAN INTERNATIONAL COOPERATION AGENCY / KEI KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT GEBANG FLYOVER - CONTRACT PACKAGE 2 (GEBANG FLYOVER & NAGREG FLYOVER) WEST JAVA PROVINCE	1 : 500	DETAILED CONSTRUCTION LAYOUT PLAN 7 OF 7	GRD-030
	Sign	Sign	Sign	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400				SHEET NO : 30 / 69
	Date	Date	Date	Sign / Date		FULL SIZE A3		

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES NORTHINGS	COORDINATES EASTINGS	I	R (m)	T (m)	Lc (m)	E (m)	PC NORTHINGS	PC EASTINGS	PT NORTHINGS	PT EASTINGS
PI-X	9245599.888	249305.643	03°-36'-13"	99.500	3.130	6.258	0.049	9245600.947	249302.697	9245598.646	249308.516



LEGEND:

- PAVEMENT OVERLAY
- PAVEMENT WIDENING -NEW PAVEMENT
- PAVEMENT AT APPROACH RAMPS

1 / - DETAILED CONSTRUCTION LAYOUT PLAN
SCALE 1:500

NOTE:

1. FOR SPECIFIC NOTES, REFER TO DWG. GRD-024