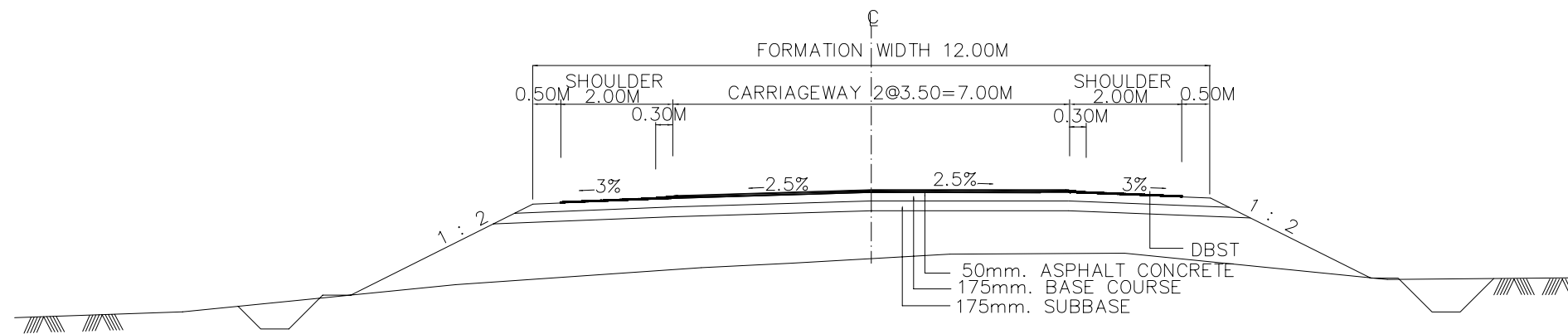


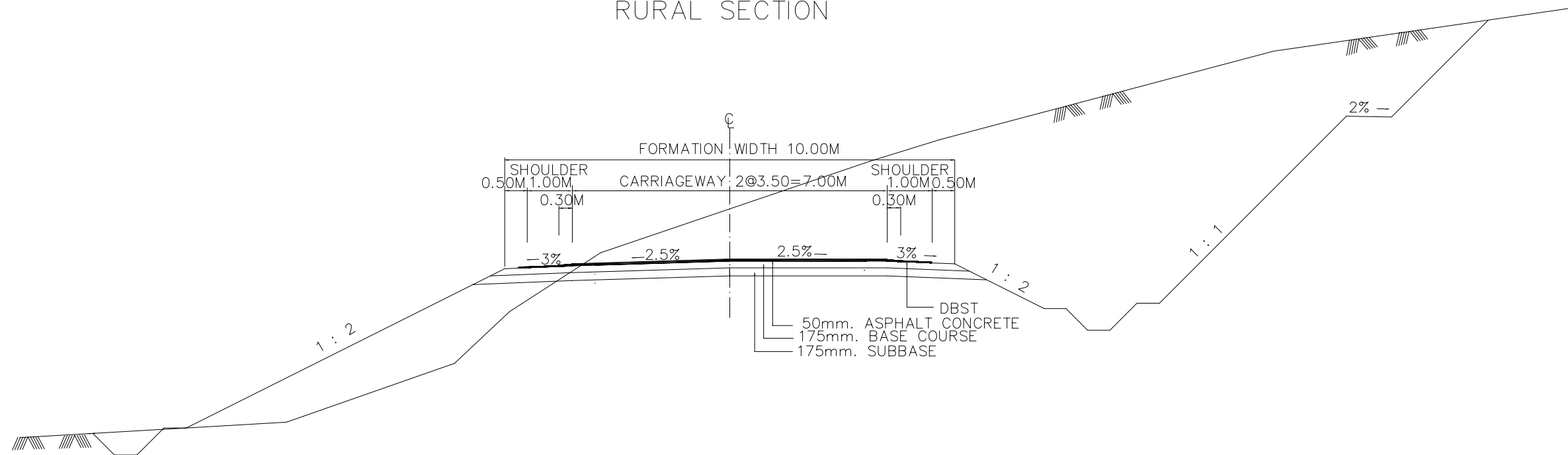
3. TYPICAL CROSS SECTIONS

TYPICAL CROSS SECTIONS SCALE = 1 : 100
 (RT.14A NORTH: STA.0+000 – STA.34+000)

POPULATED SECTION



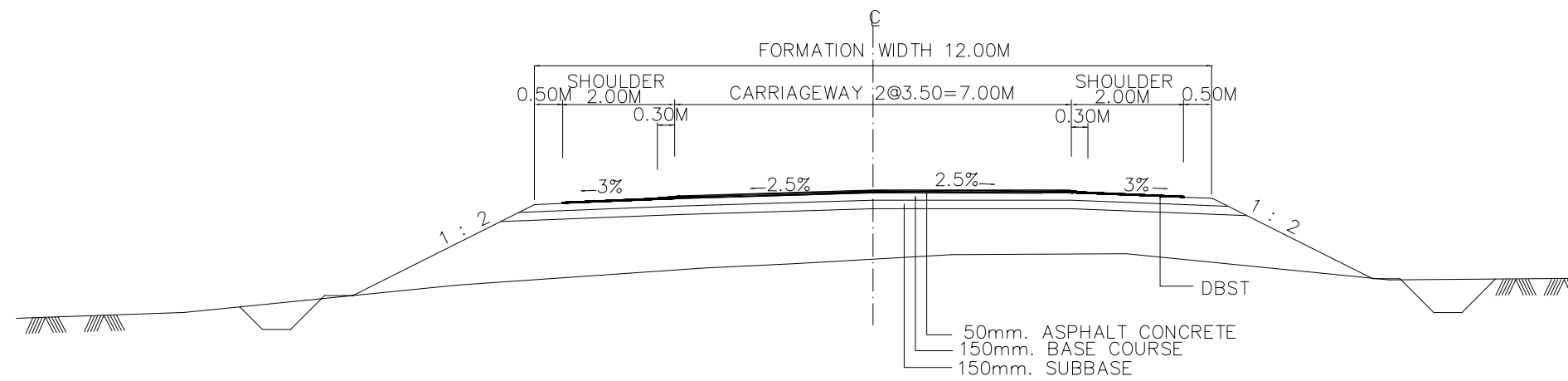
RURAL SECTION



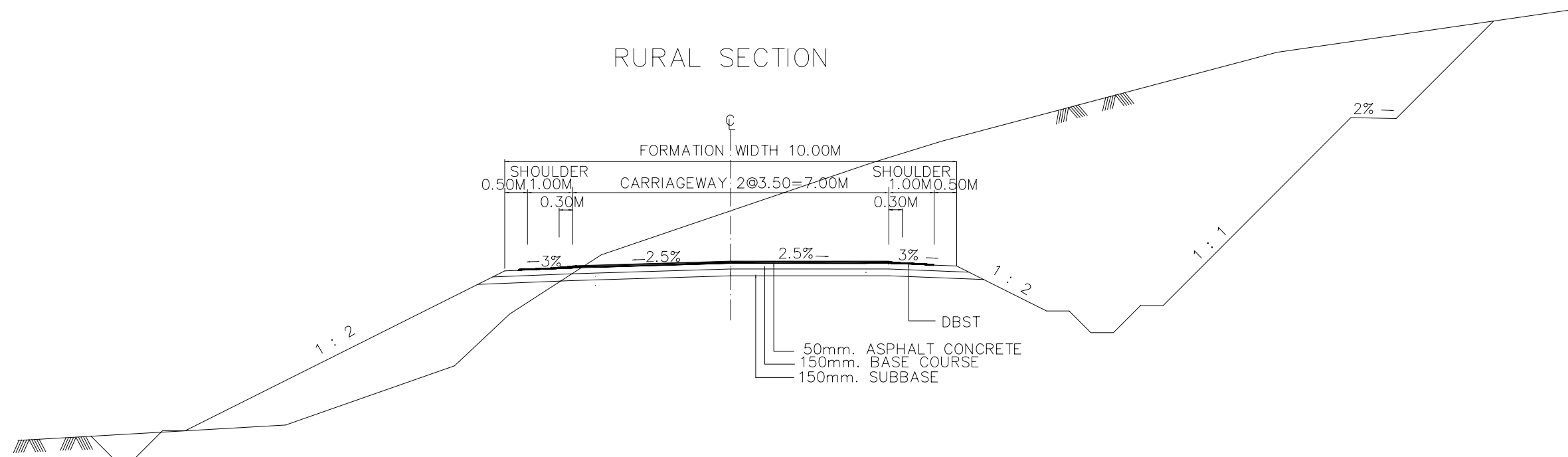
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.14A TYPICAL CROSS SECTIONS (RT.14A NORTH)	DESIGNED BY	
						CHECKED BY	
						APPROVED BY	
						DWG. NO.	R14-TC-001

TYPICAL CROSS SECTIONS SCALE = 1 : 100
 (RT.14A SOUTH: STA.34+000 – STA.59+301)

POPULATED SECTION



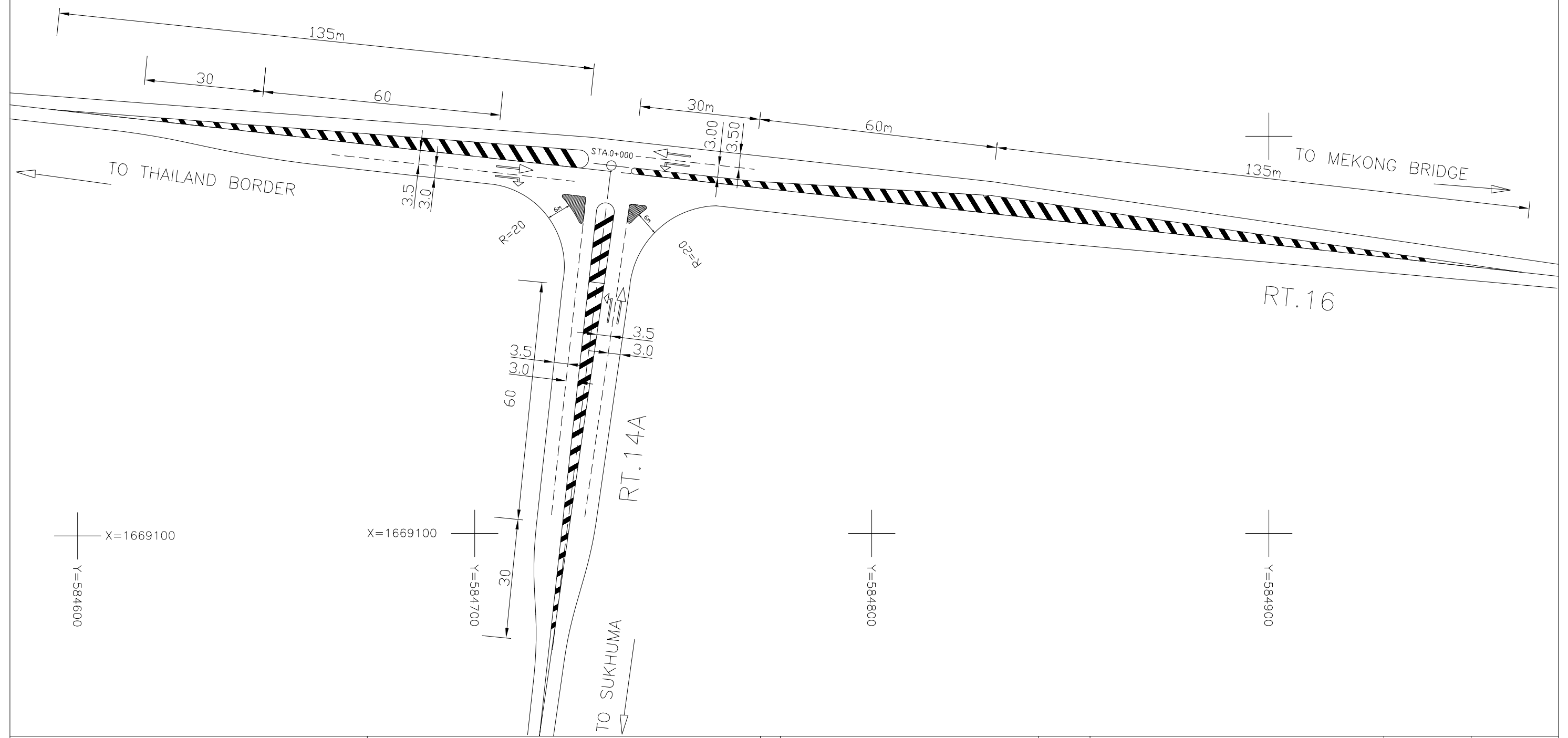
RURAL SECTION



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.14A TYPICAL CROSS SECTIONS (RT.14A SOUTH)	DESIGNED BY	
						CHECKED BY	
						APPROVED BY	
						DWG. NO.	R14-TC-002

4. JUNCTION

PLAN OF JUNCTION: STA.0+000 SCALE=1:1000
(RT.16 - RT.14A)



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

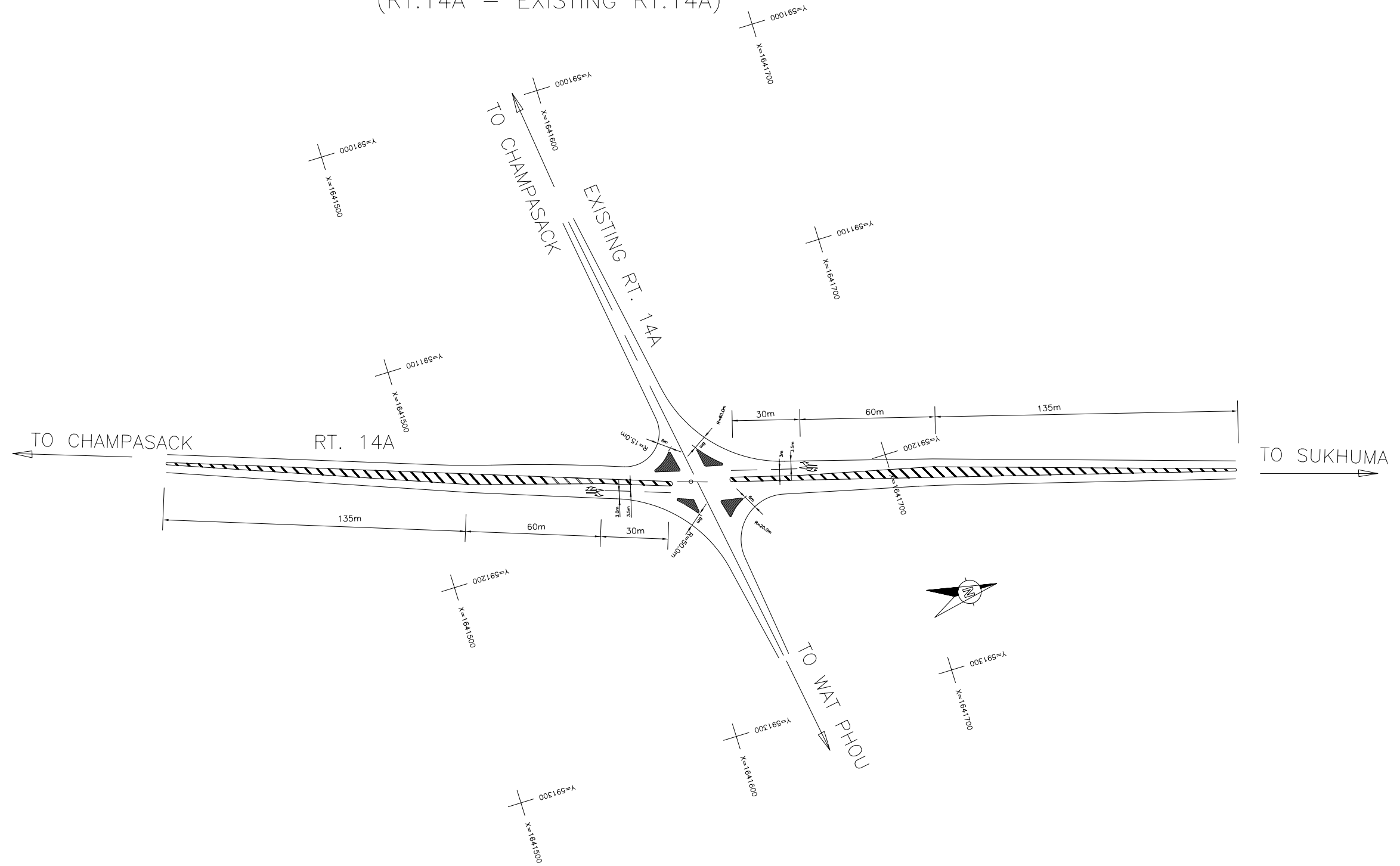
No.	REVISION	DATE

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A PLAN OF JUNCTION
STA. 0+000

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-JT-001

PLAN OF JUNCTION: STA.34+100
(RT.14A – EXISTING RT.14A)

SCALE=1:2000



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

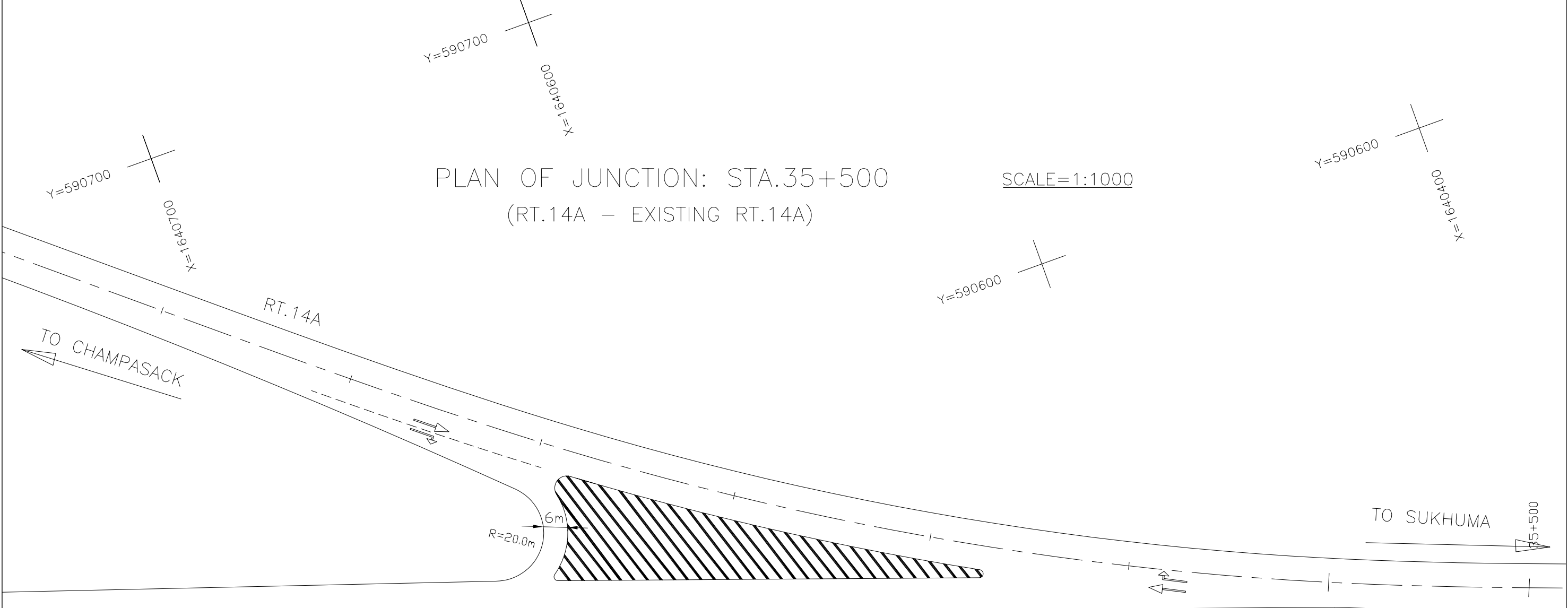
No.	REVISION	DATE

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A PLAN OF JUNCTION
STA. 34+100

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-JT-002

PLAN OF JUNCTION: STA.35+500
(RT.14A - EXISTING RT.14A)

SCALE=1:1000



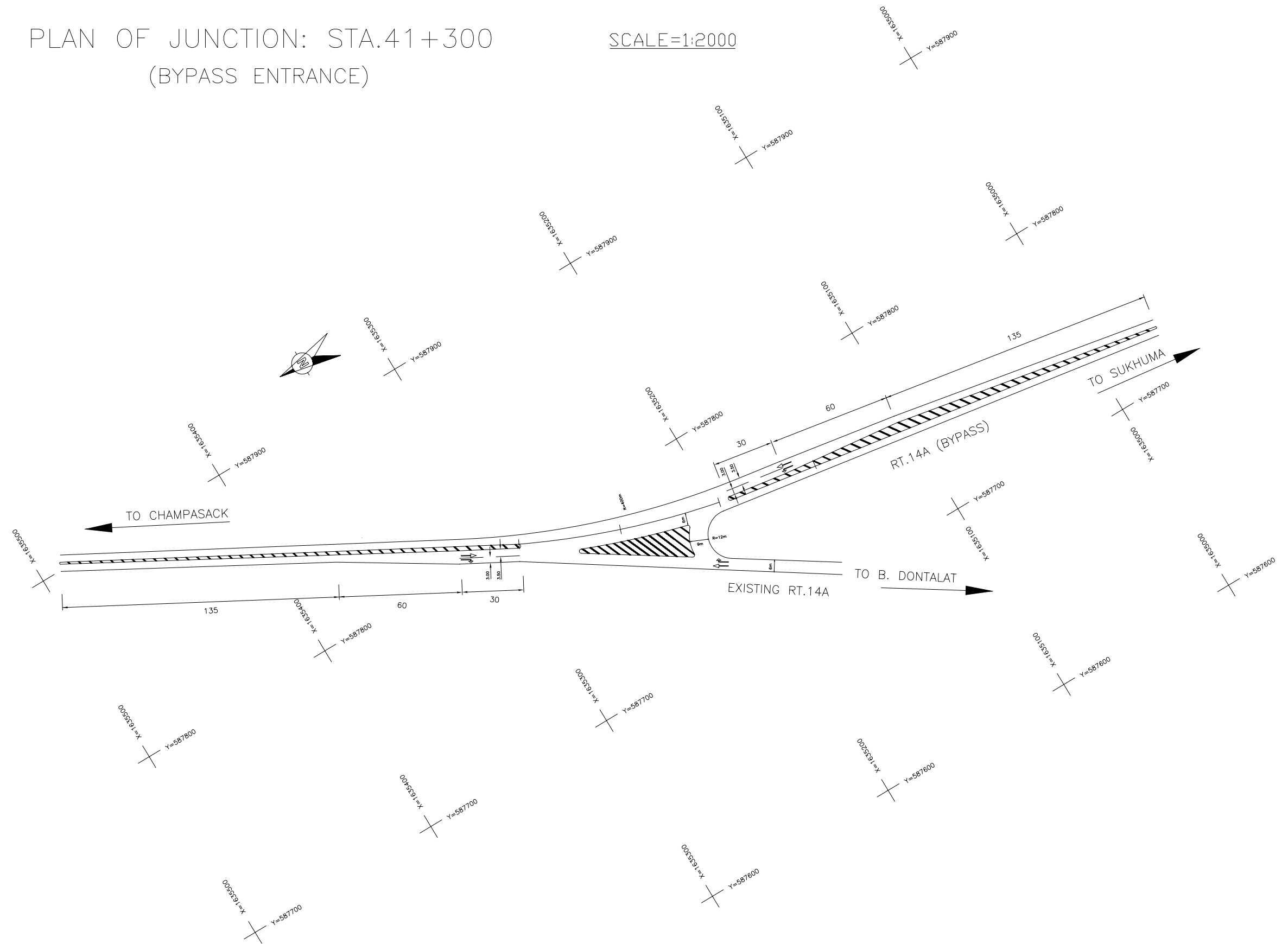
EXISTING RT.14A



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.14A	DESIGNED BY	
						PLAN OF JUNCTION STA.35+500	CHECKED BY
						APPROVED BY	
						DWG. NO.	R14-JT-003

PLAN OF JUNCTION: STA.41+300
(BYPASS ENTRANCE)

SCALE=1:2000



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

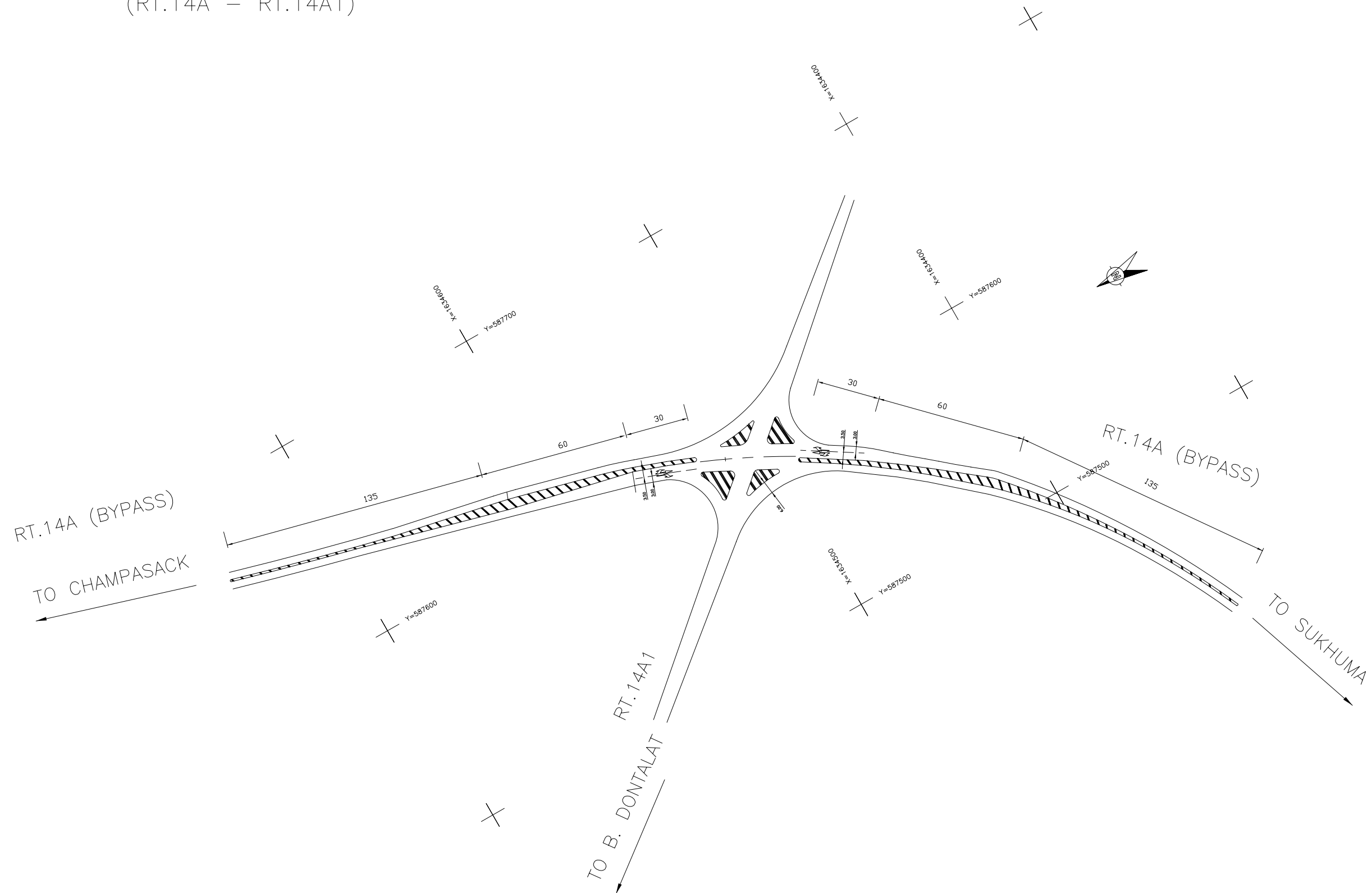
No.	REVISION	DATE

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A
PLAN OF JUNCTION
STA. 41+300

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-JT-004

PLAN OF JUNCTION: STA.42+100
(RT.14A - RT.14A1)

SCALE=1:2000



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

No.	REVISION	DATE

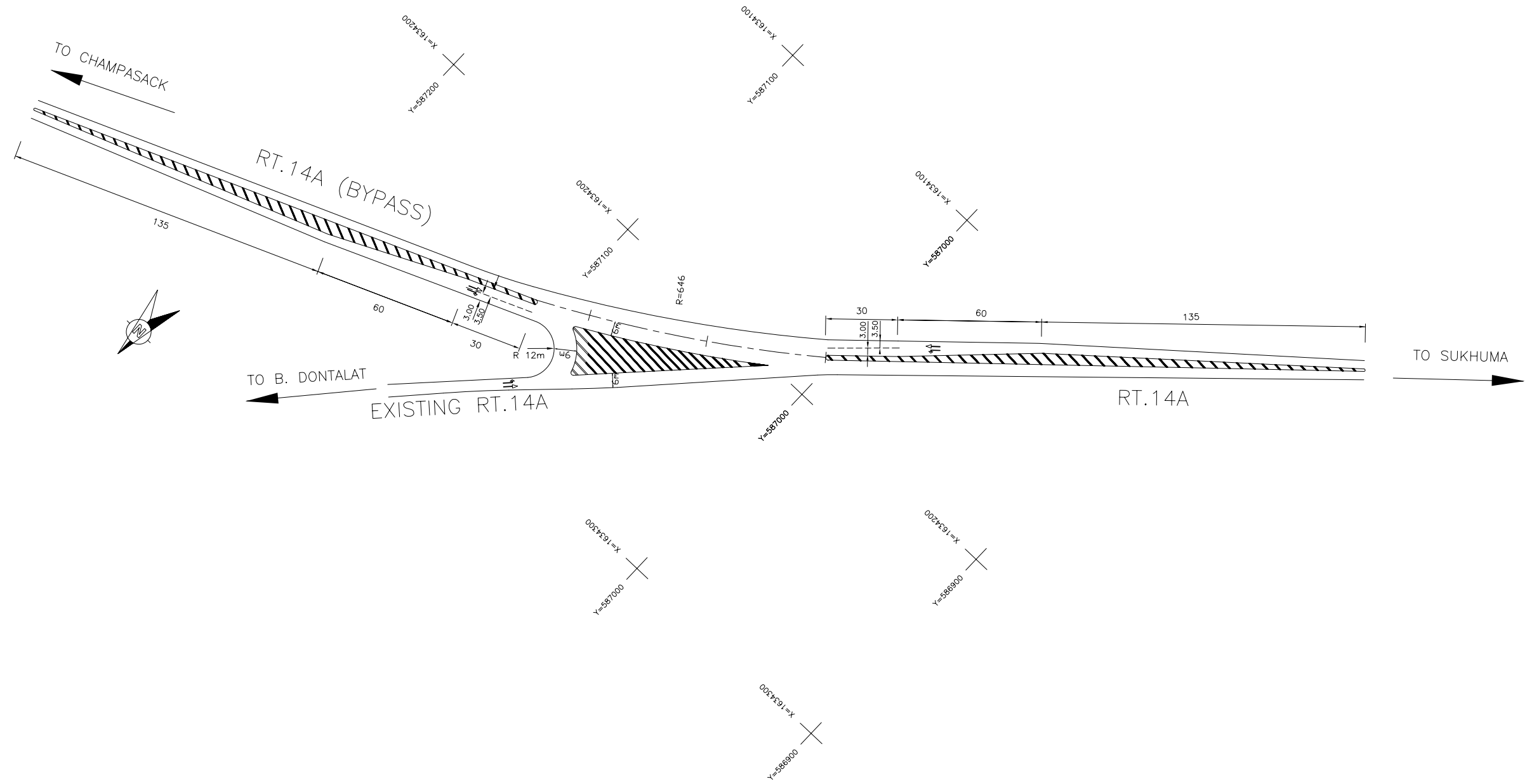
THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.

RT.14A PLAN OF JUNCTION
STA.42+100

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-JT-005

PLAN OF JUNCTION: STA.42+800
(BYPASS END)

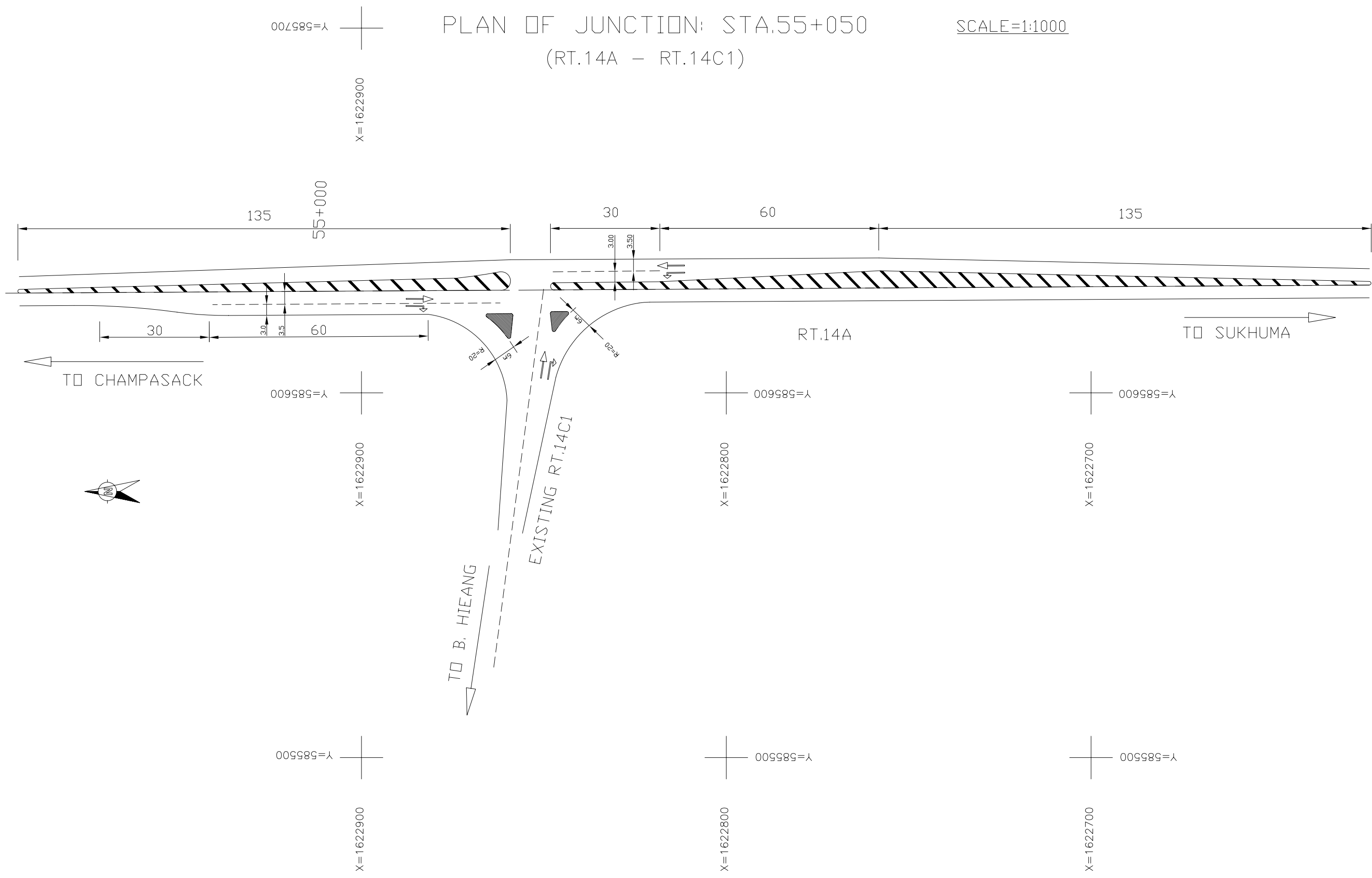
SCALE=1:2000



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED			THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R.	DESIGNED BY	
					CHECKED BY	
					APPROVED BY	
		No.	REVISION		DATE	DWG. NO.
				RT.14A	PLAN OF JUNCTION	
					STA. 42+800	

PLAN OF JUNCTION: STA.55+050
(RT.14A - RT.14C1)

SCALE=1:1000



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

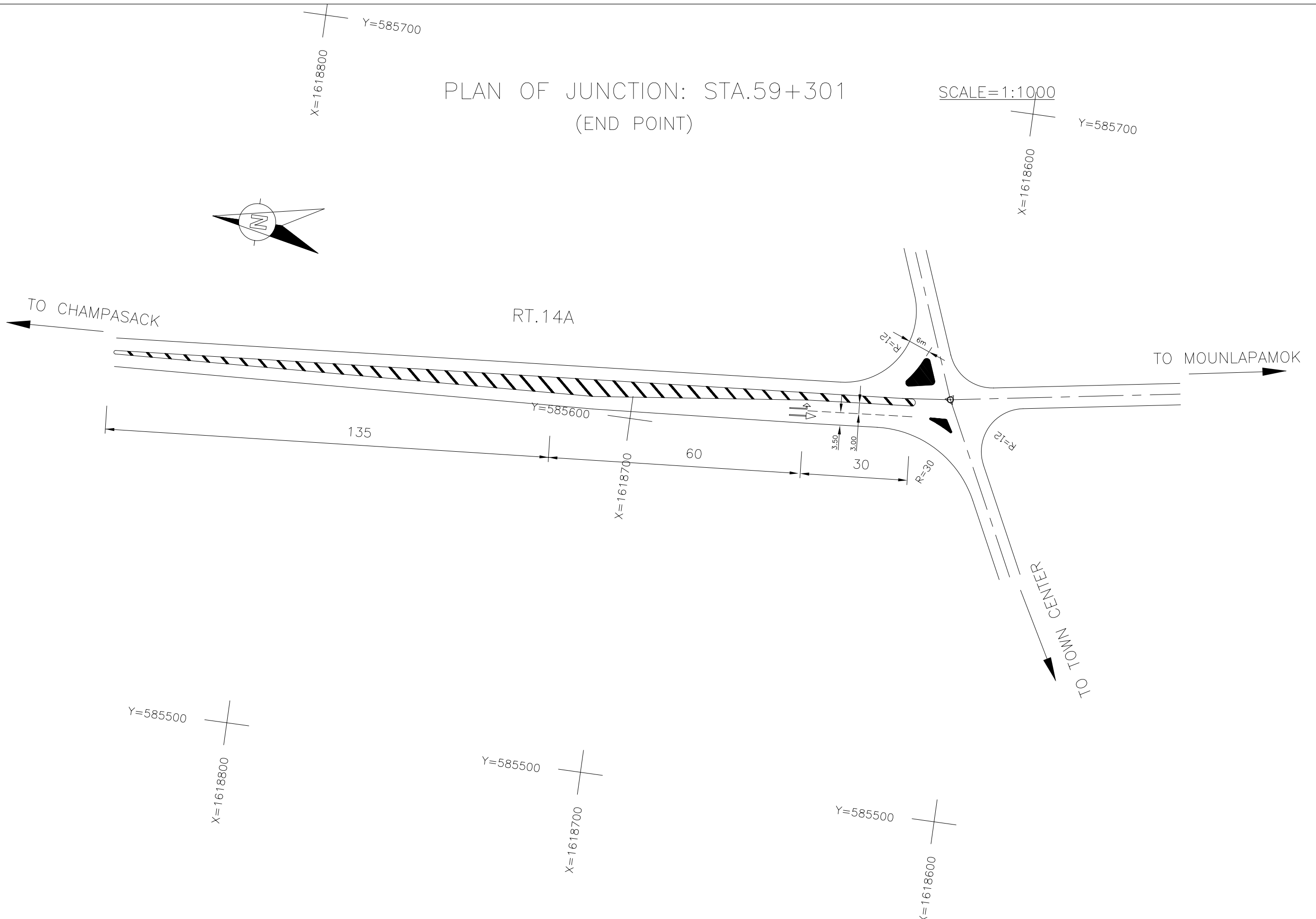
No.	REVISION	DATE

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A PLAN OF JUNCTION
STA. 55+050

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-JT-007

PLAN OF JUNCTION: STA.59+301
(END POINT)

SCALE=1:1000



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

No.	REVISION	DATE

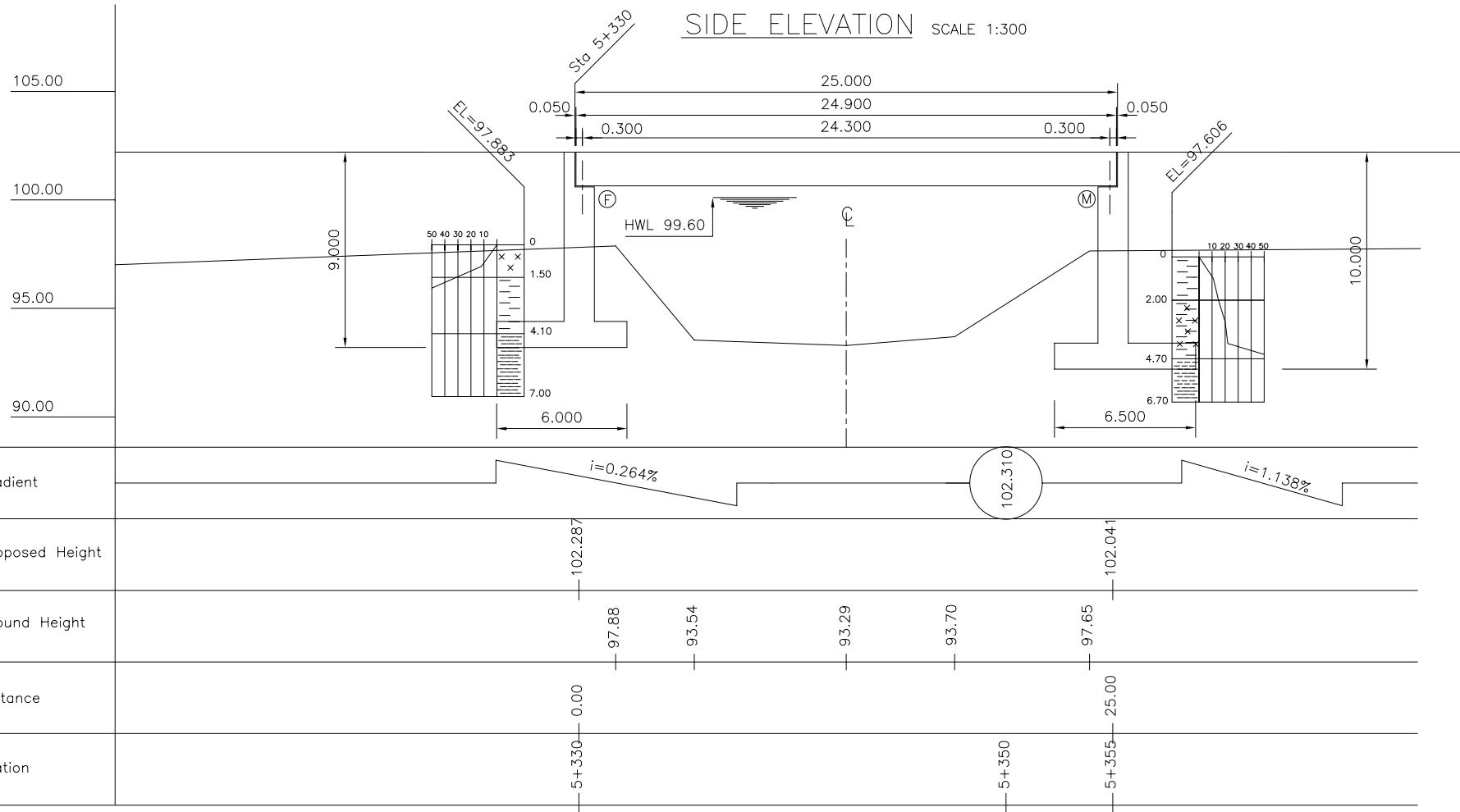
THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A PLAN OF JUNCTION
STA. 59+301

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-JT-008

5. BRIDGE

GENERAL VIEW (HOUAY THOK BRIDGE)

SIDE ELEVATION SCALE 1:300

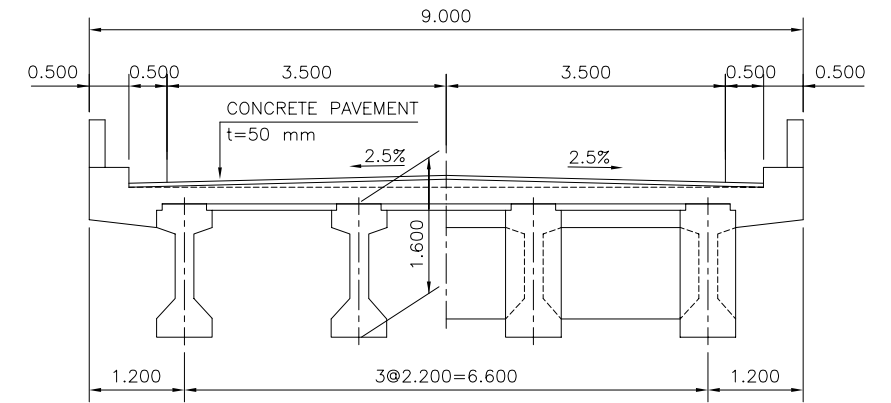


DESIGN CONDITION

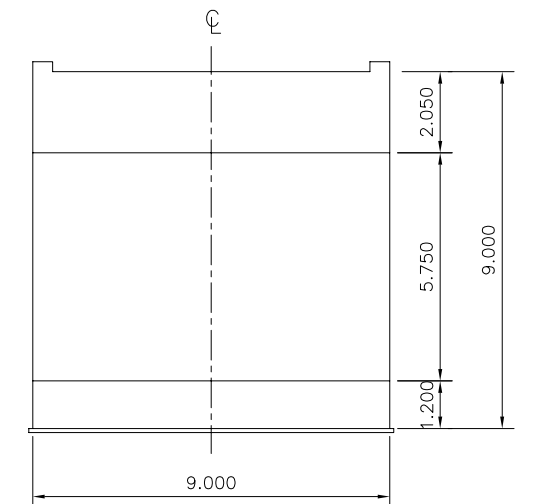
Station	5+330
Bridge Type	PC-I Girder
Bridge Length	25.000
Girder Length	24.900
Span Arrangement	24.300
Width	8.00
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.06

CROSS SECTION

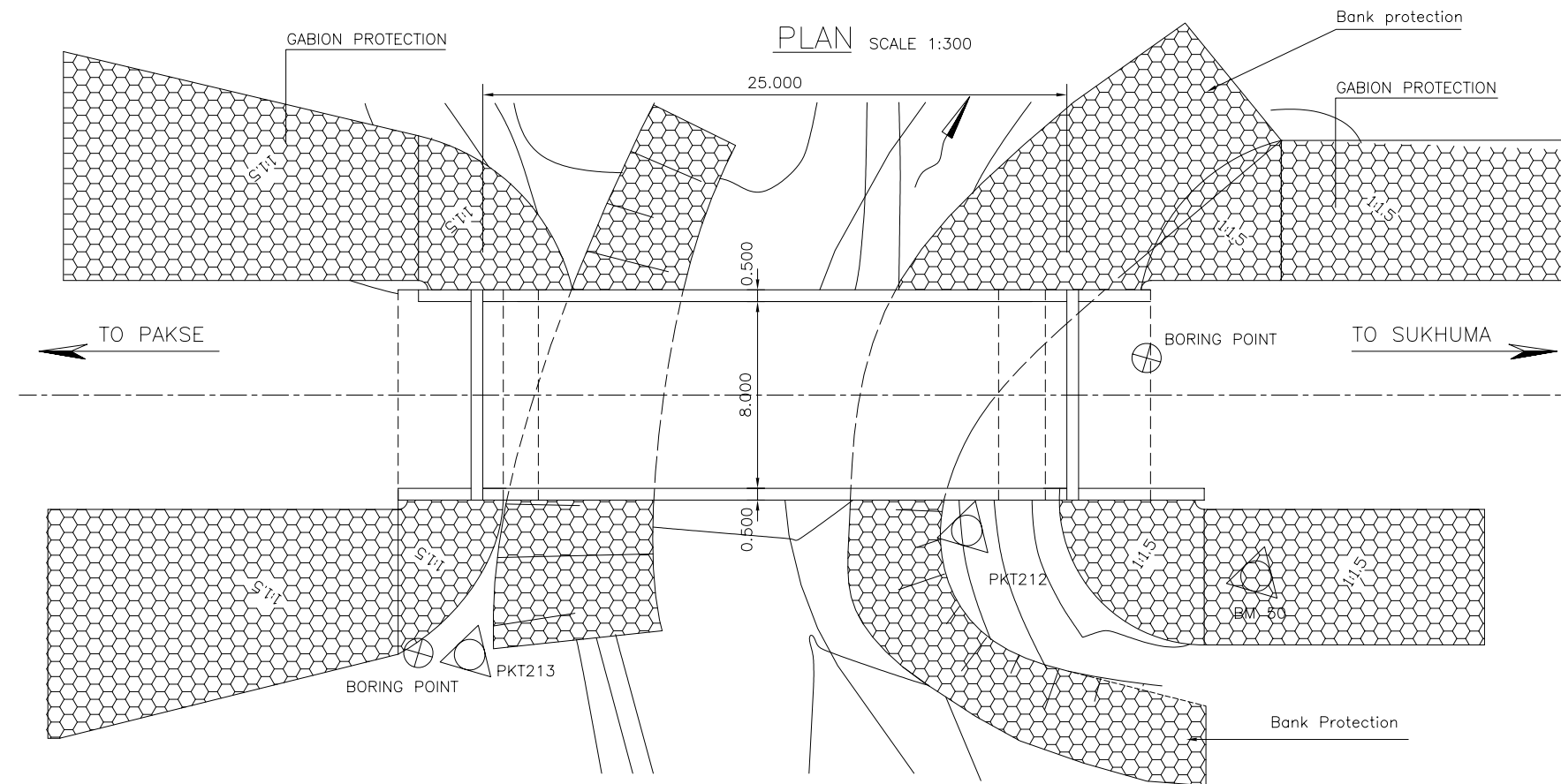
SUPERSTRUCTURE SCALE 1:100



A1 ABUTMENT SCALE 1:200

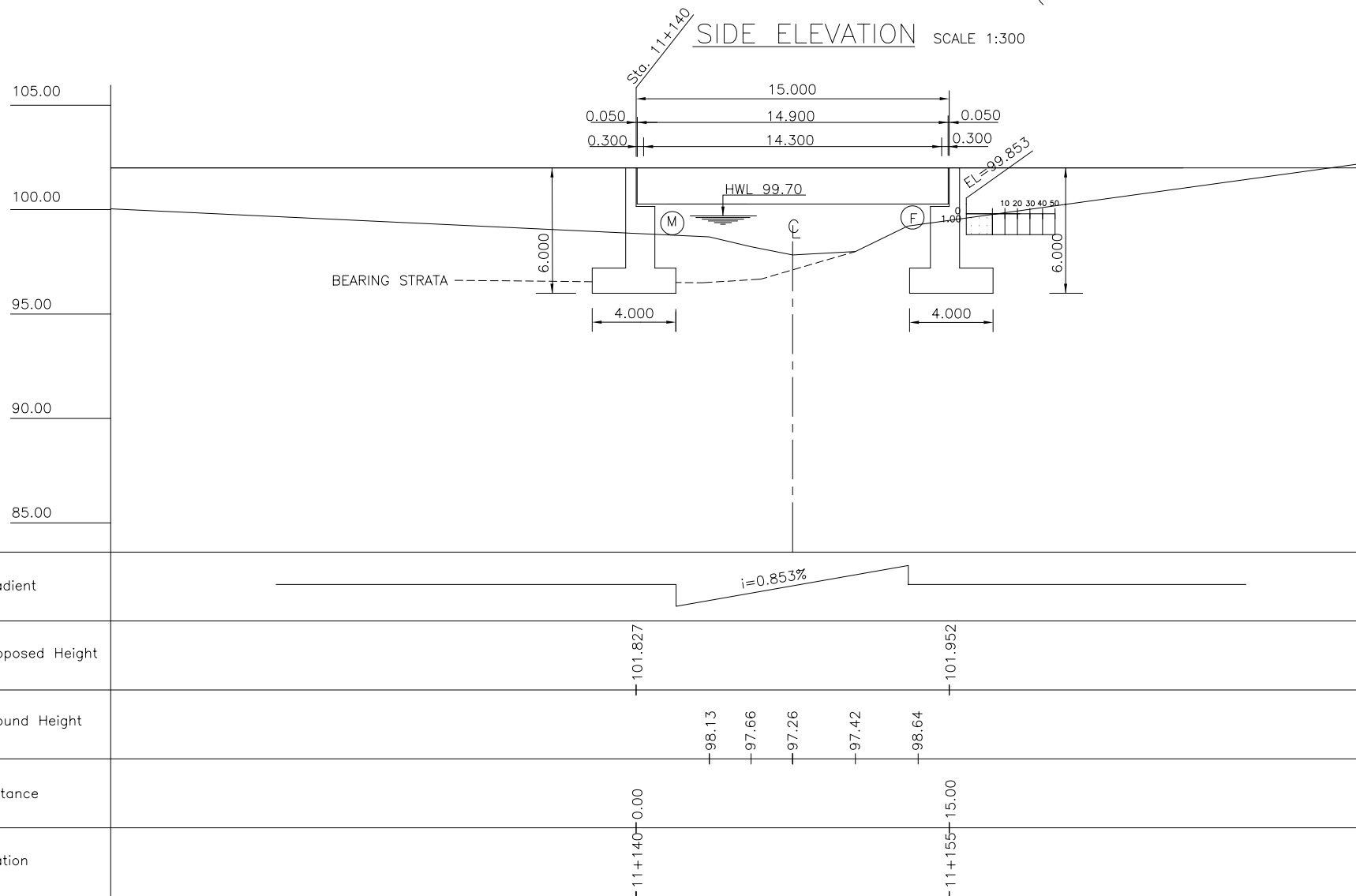


PLAN SCALE 1:300



GENERAL VIEW (HOUAY IMMET BRIDGE)

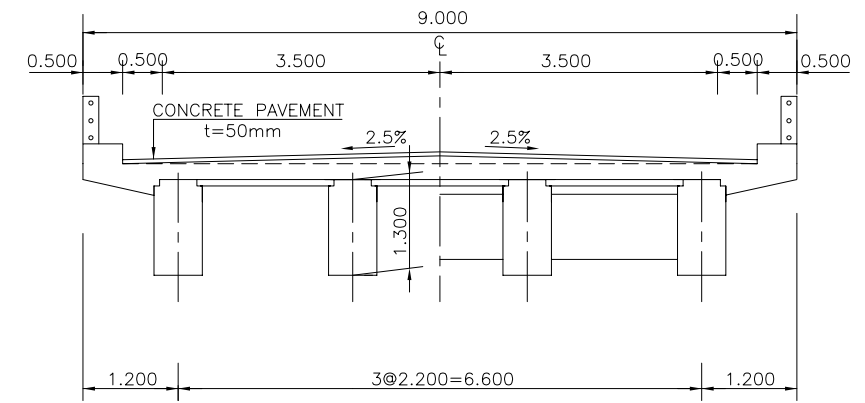
SIDE ELEVATION SCALE 1:300



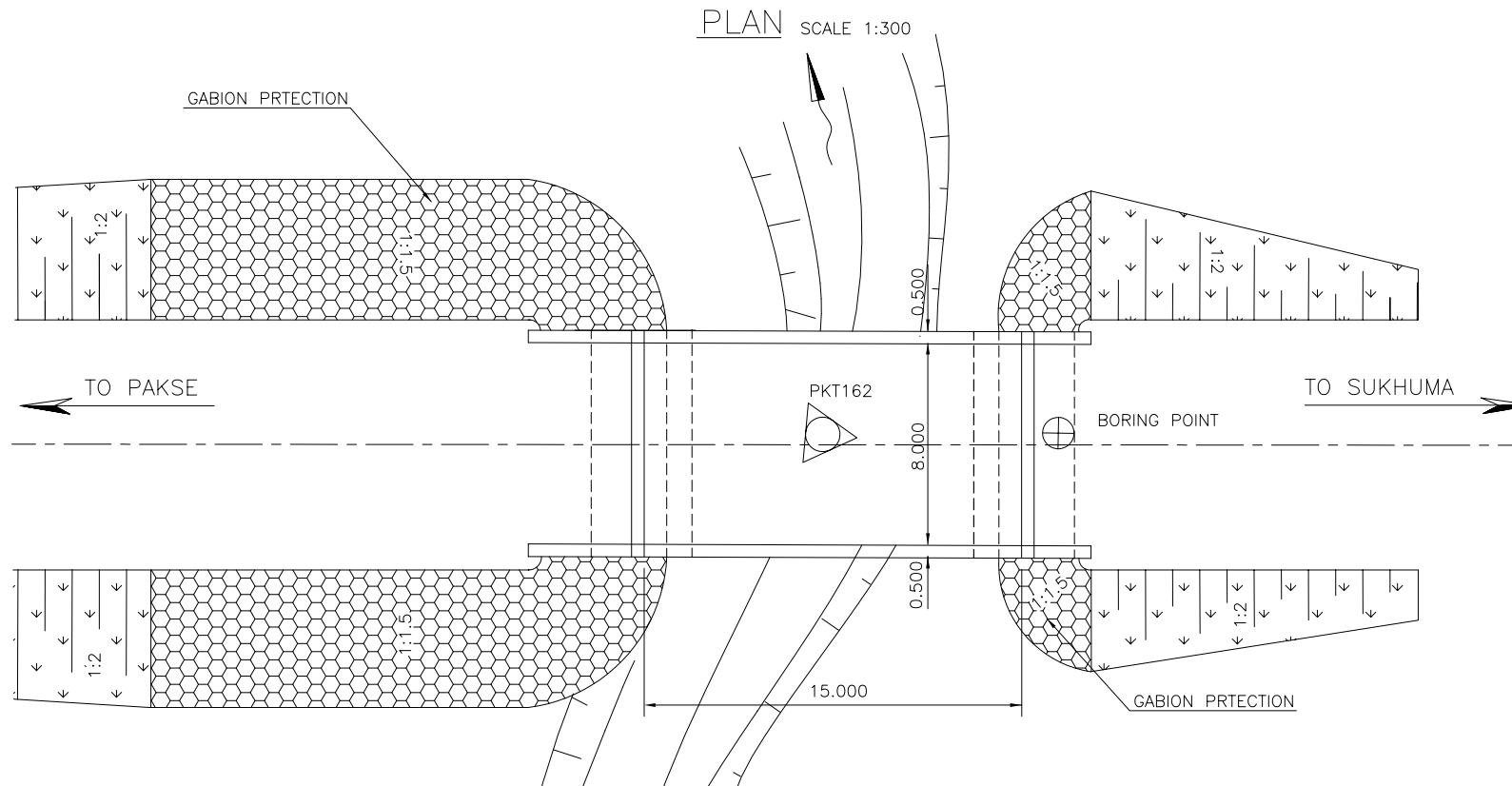
DESIGN CONDITION

Station	11+140
Bridge Type	RC - I GIRDER
Bridge Length	15.000
Girder Length	14.900
Span Arrangement	14.300
Width	8.00
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.06

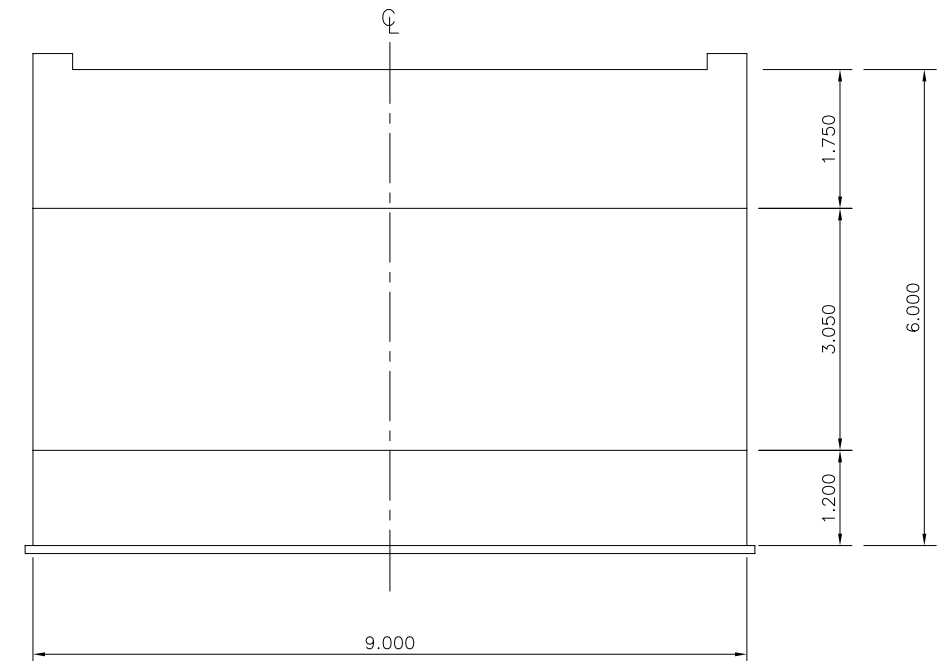
CROSS SECTION SUPERSTRUCTURE SCALE 1:100



PLAN SCALE 1:300

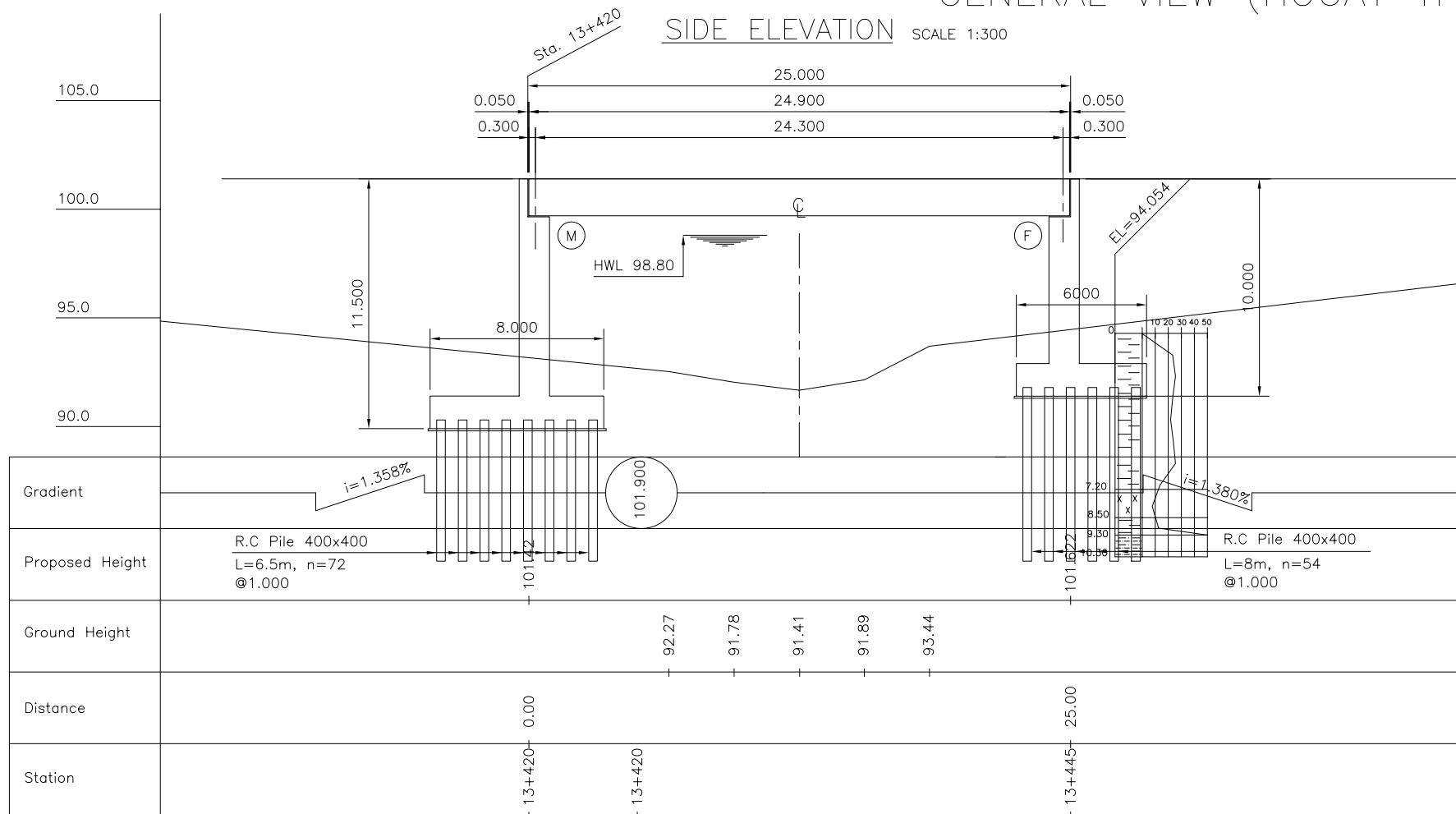


A1 ABUTMENT SCALE 1:100



GENERAL VIEW (HOUAY THAKHONG BRIDGE)

SIDE ELEVATION SCALE 1:300

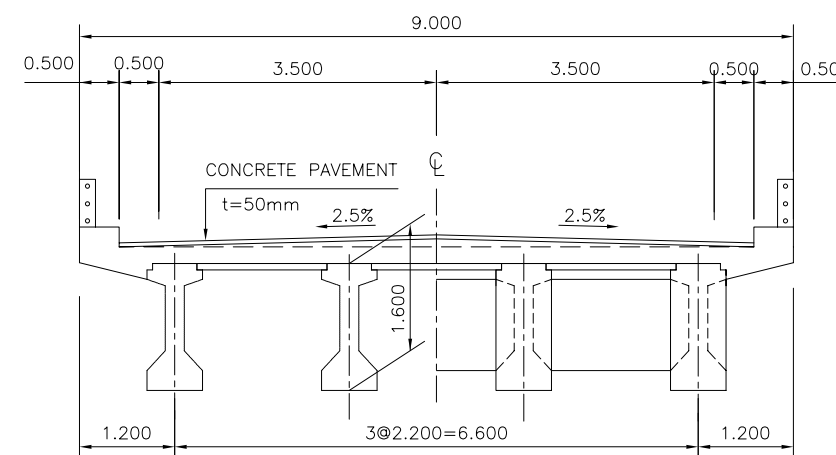


DESIGN CONDITION

Station	13+420
Bridge Type	PC-I Girder
Bridge Length	25.000
Girder Length	24.900
Span Arrangement	24.300
Width	8.000
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.06

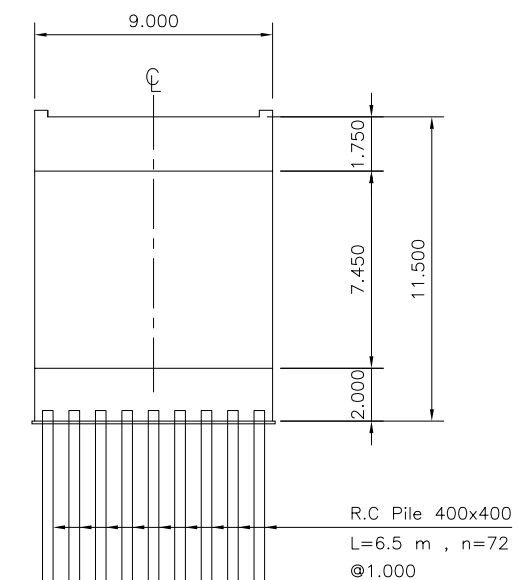
CROSS SECTION

SUPERSTRUCTURE SCALE 1:100

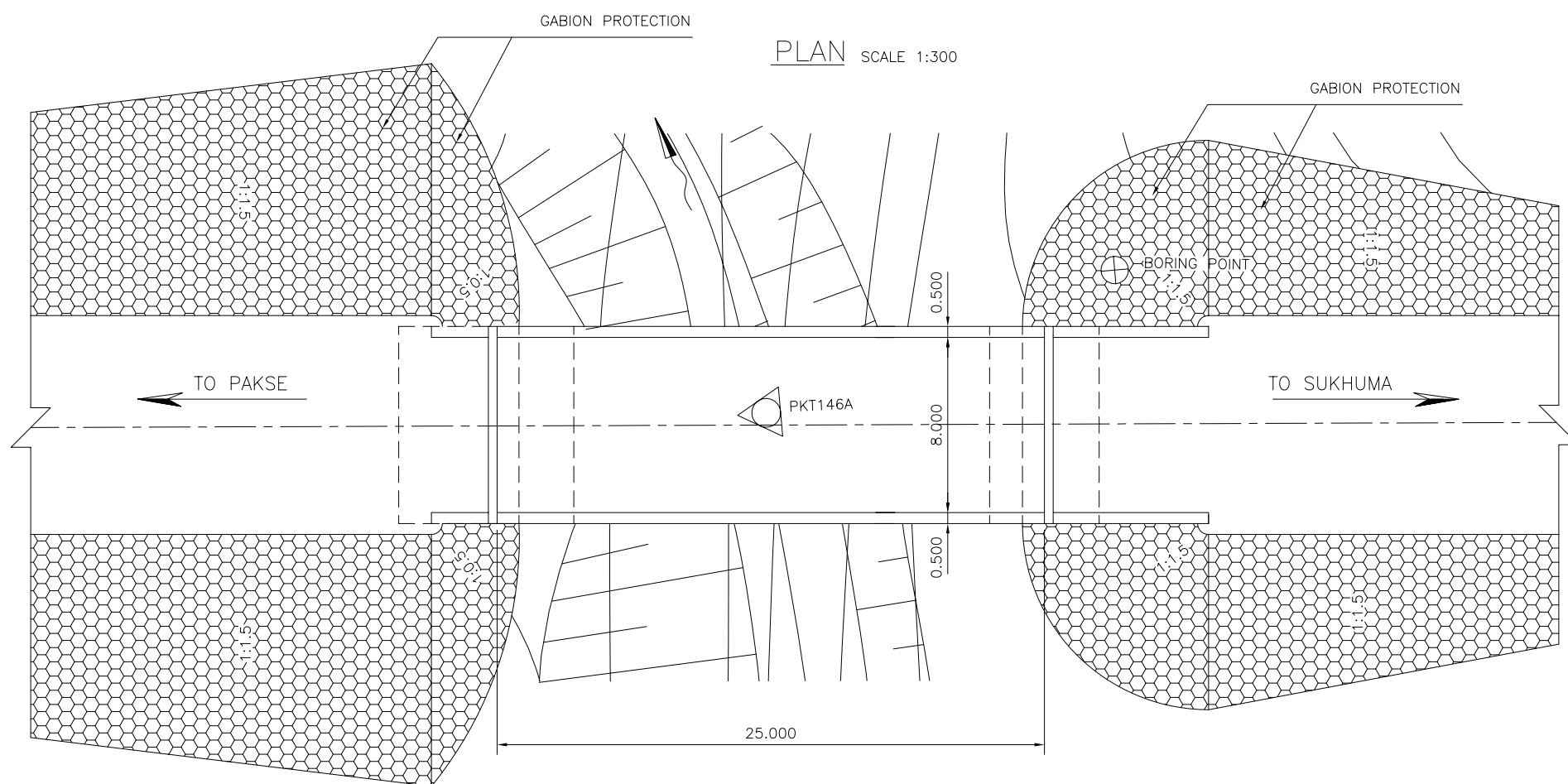


A1 ABUTMENT

SCALE 1:300



PLAN SCALE 1:300



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

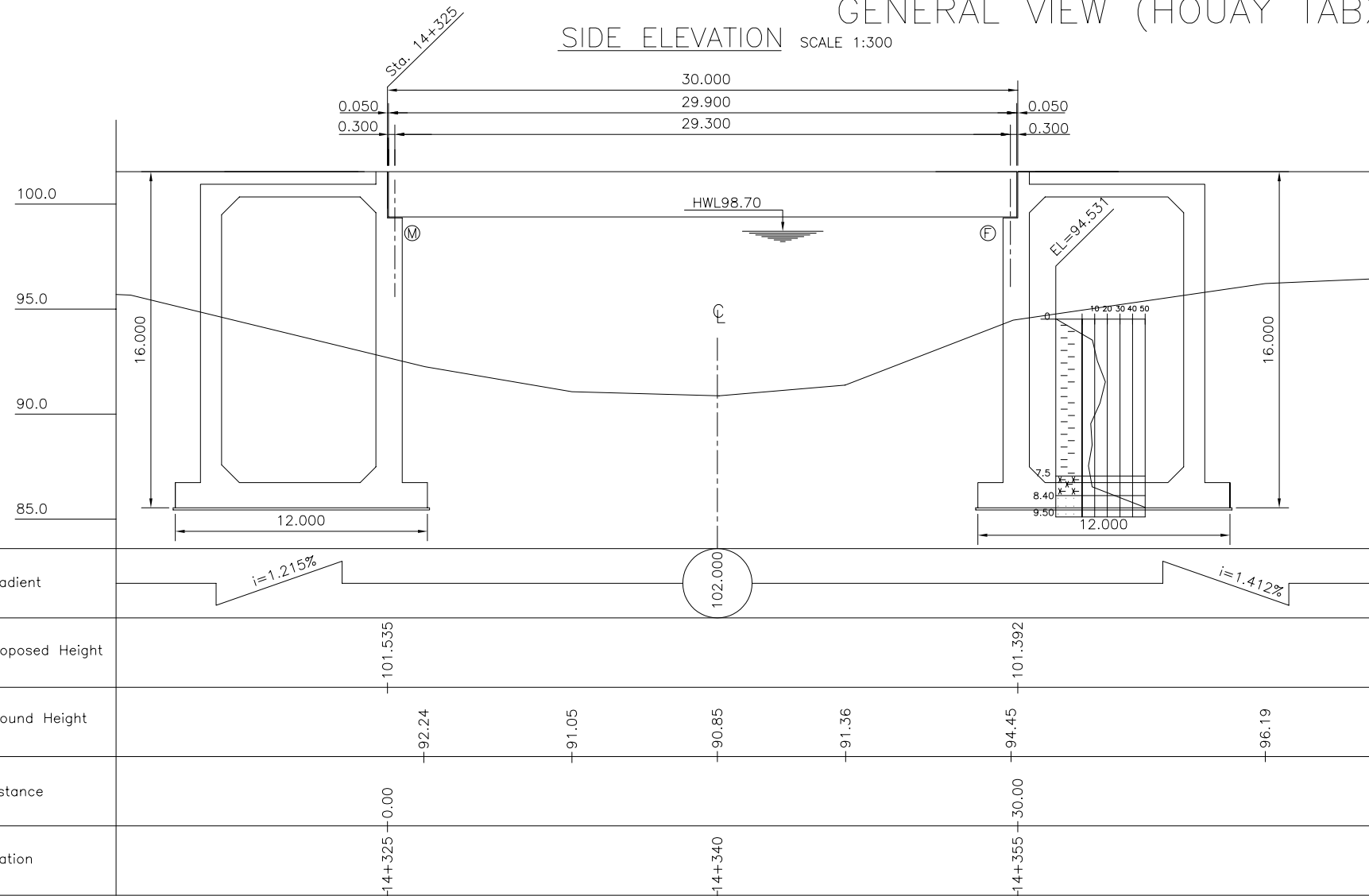
No.	REVISION	DATE
-----	----------	------

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A
GENERAL VIEW
HOUAY THAKHONG BRIDGE (No.11)

DESIGNED BY
CHECKED BY
APPROVED BY
DWG. NO. R14-BR-003

GENERAL VIEW (HOUAY TABXANG BRIDGE)

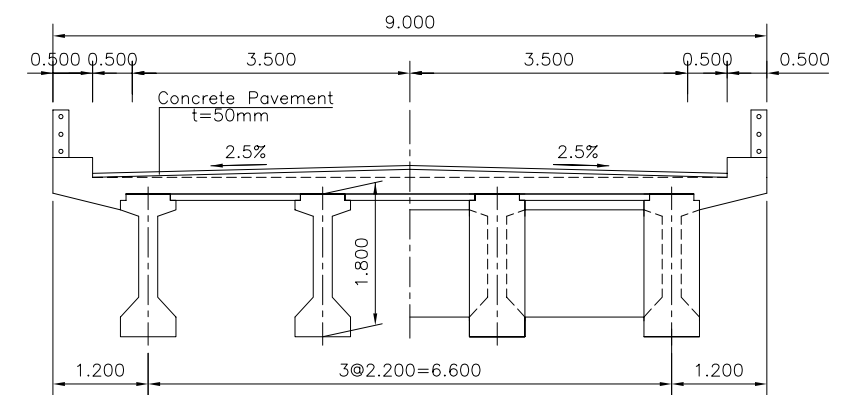
SIDE ELEVATION SCALE 1:300



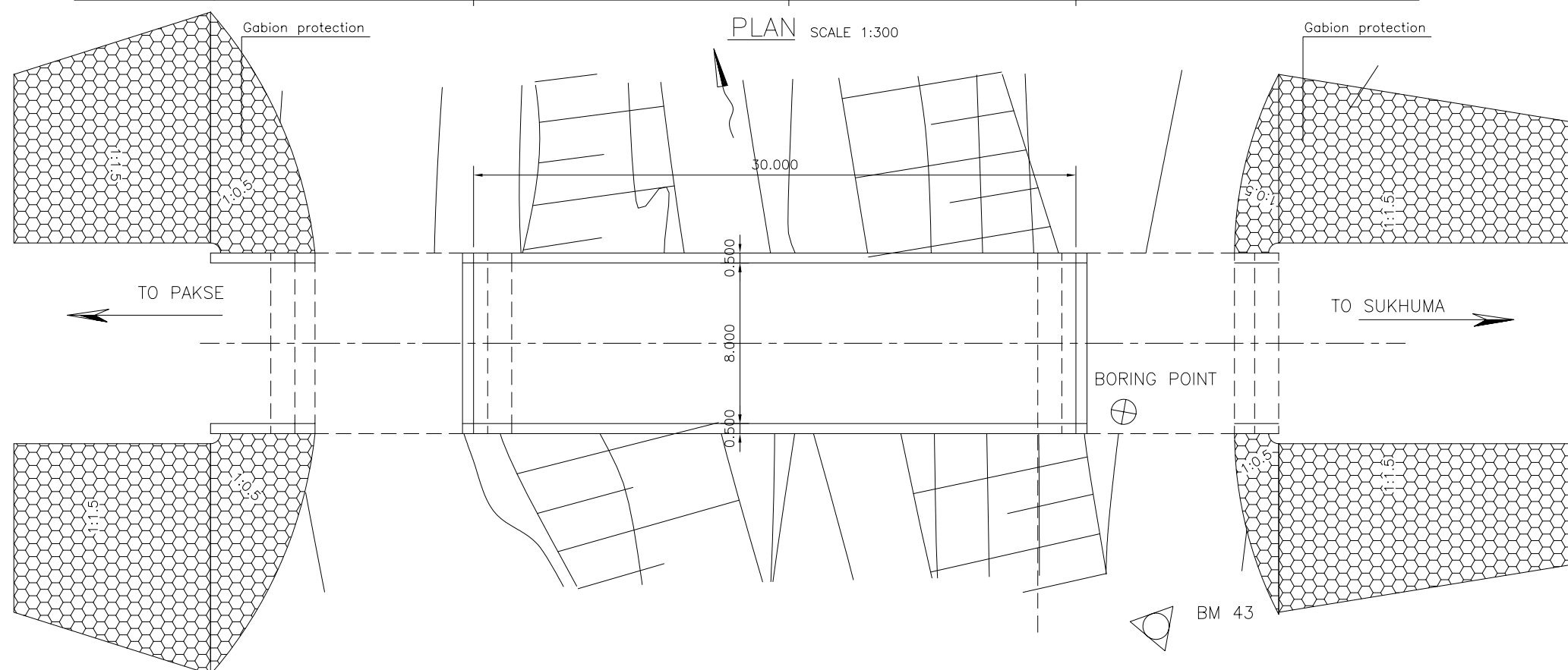
DESIGN CONDITION

Station	14+325
Bridge Type	PC - I Girder
Bridge Length	30.00
Girder Length	29.900
Span Arrangement	29.300
Effective Width	8.00
Skew Angle	90°
Live Load	HS - 25 - 44
Seismic Coefficient	0.06

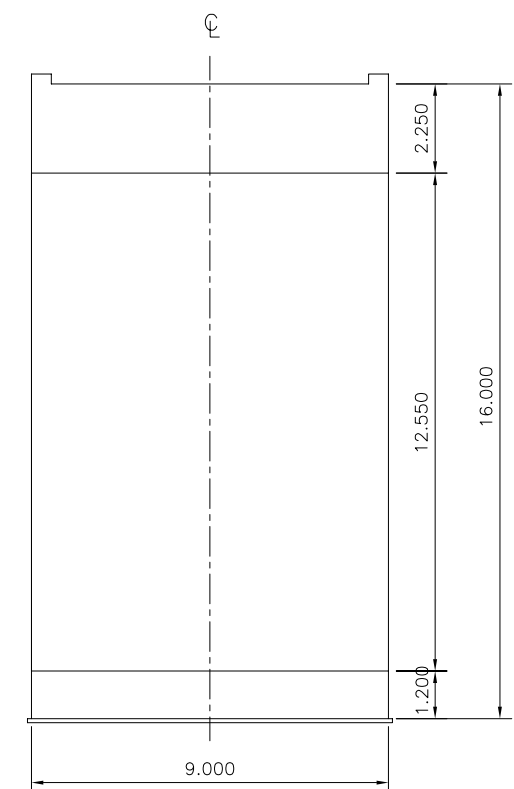
CROSS SECTION SUPERSTRUCTURE SCALE 1:100



PLAN SCALE 1:300



A1 ABUTMENT SCALE 1:200



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

No.	REVISION	DATE

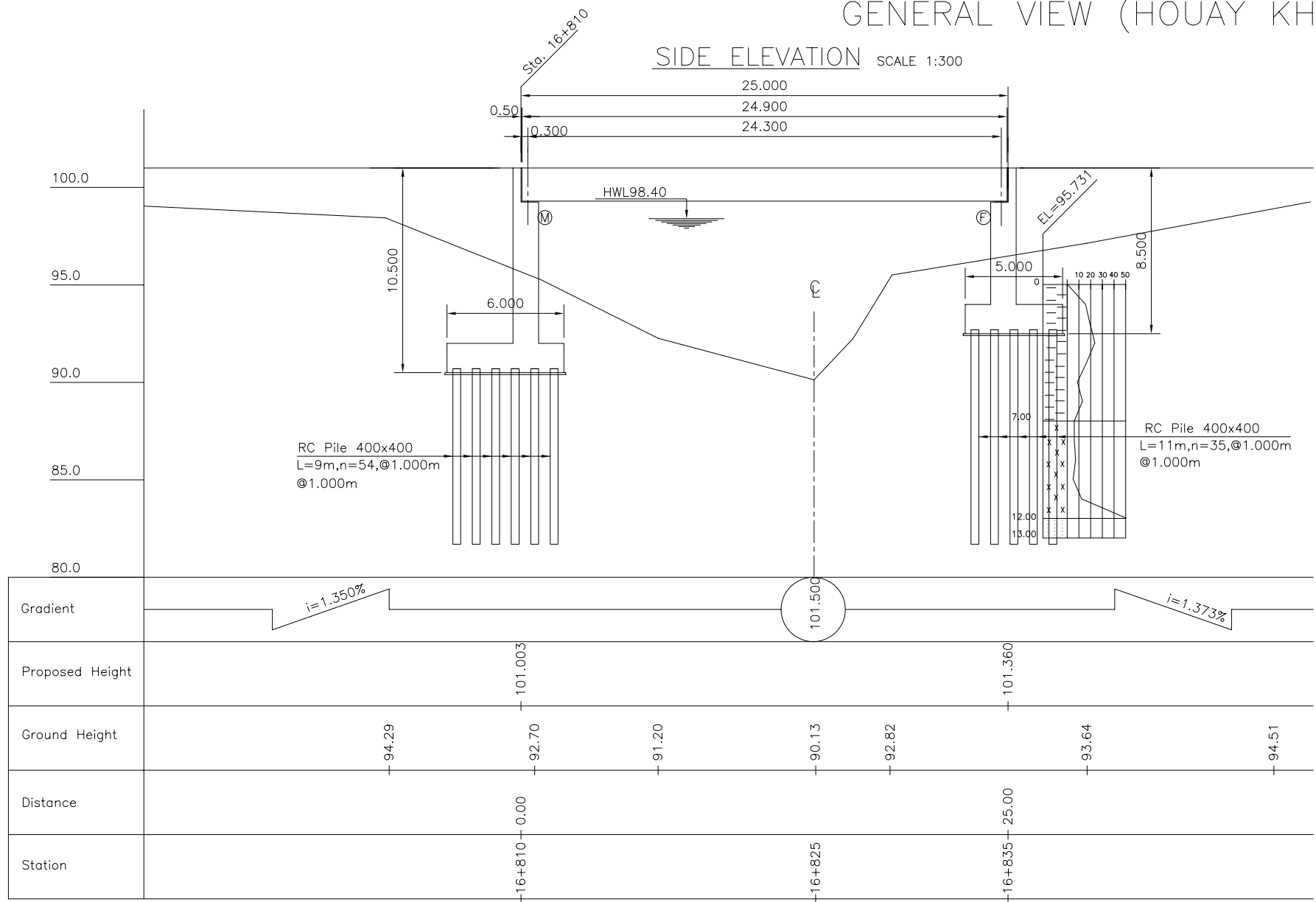
THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.

RT.14A GENERAL VIEW
HOUAY TABXANG BRIDGE (No.12)

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-BR-004

GENERAL VIEW (HOUAY KHONKHEN BRIDGE)

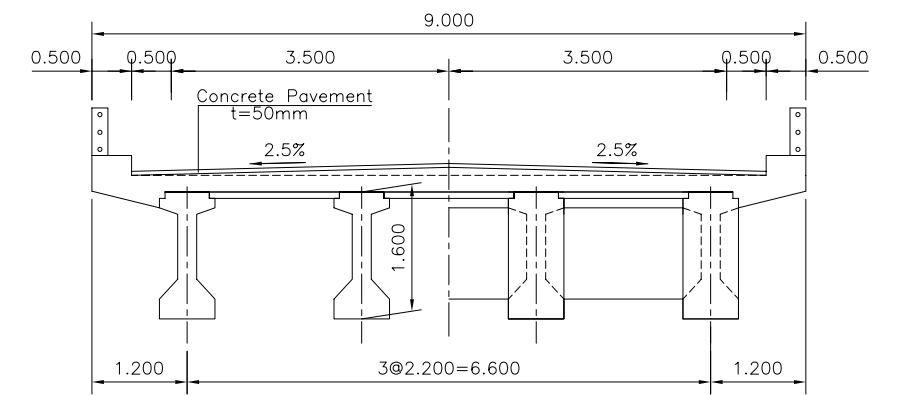
SIDE ELEVATION SCALE 1:300



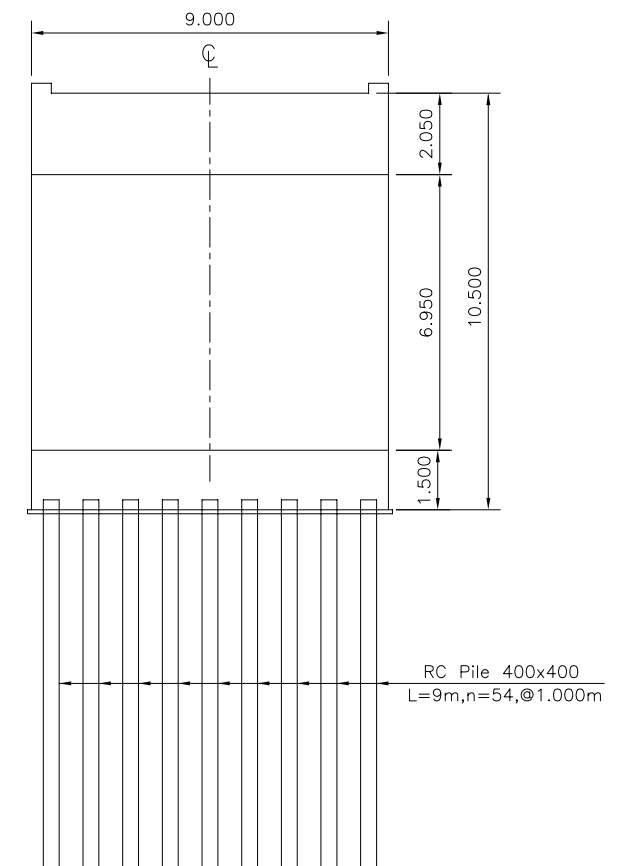
DESIGN CONDITION

Station	16+810
Bridge Type	PC - I GIRDER
Bridge Length (m)	25.00
Girder Length (m)	24.90
Span Arrangement	24.30
Effective Width	8.00
Skew Angle	90°
Live Load	HS - 25 - 45
Seismic Coefficient	0.06

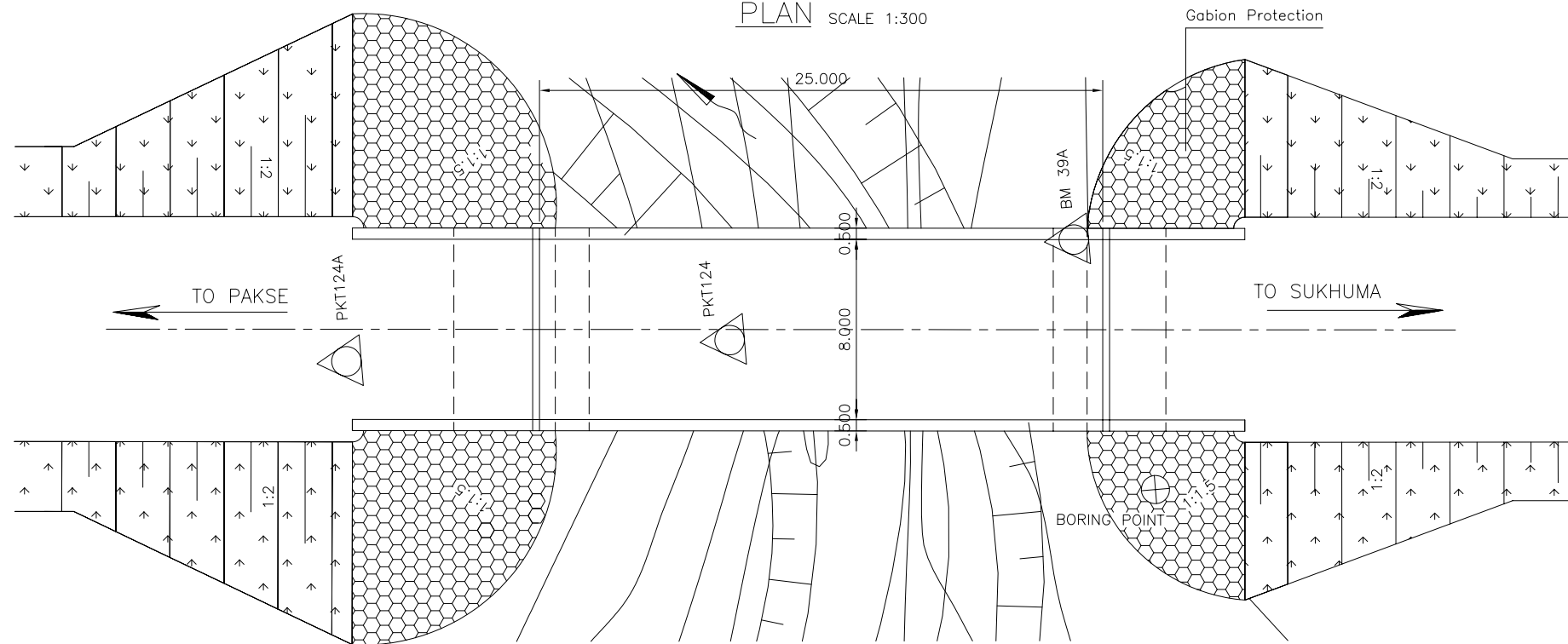
CROSS SECTION SUPERSTRUCTURE SCALE 1:100



A1 ABUTMENT SCALE 1:200



PLAN SCALE 1:300

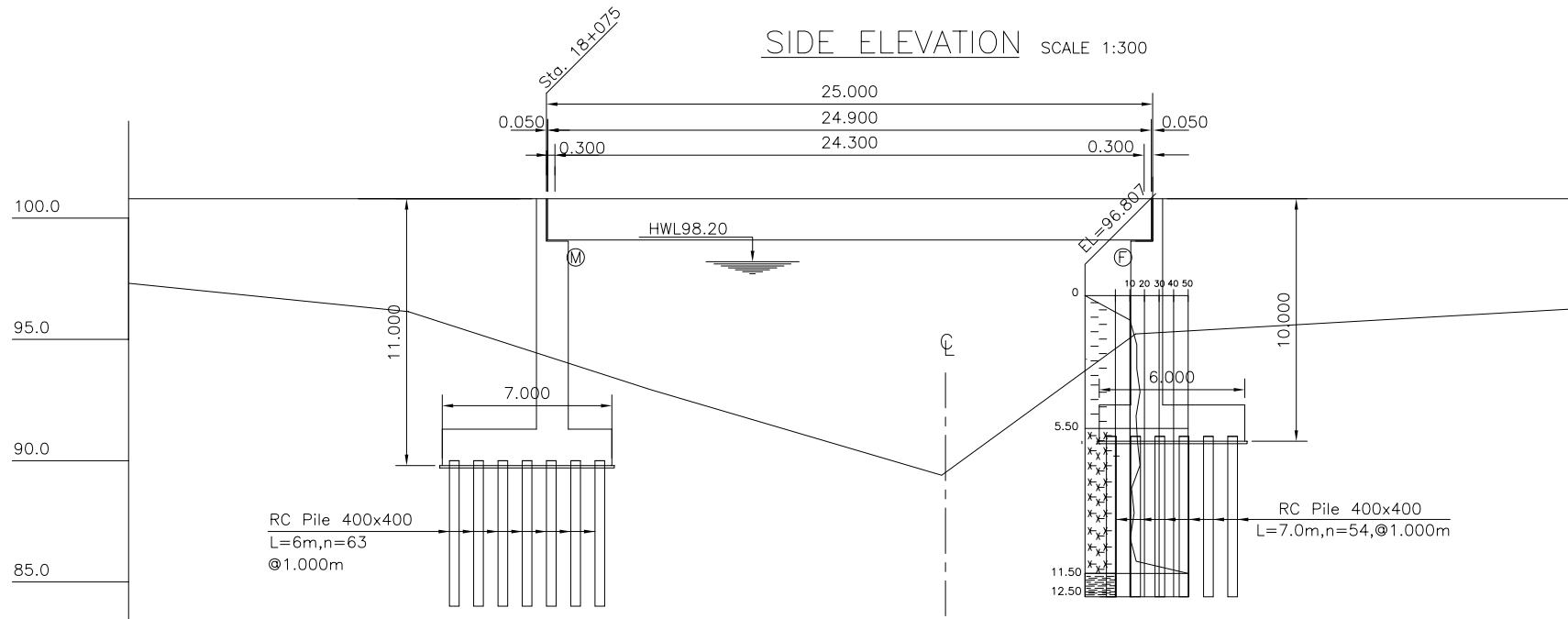


GENERAL VIEW (HOUAY HONG BRIDGE)

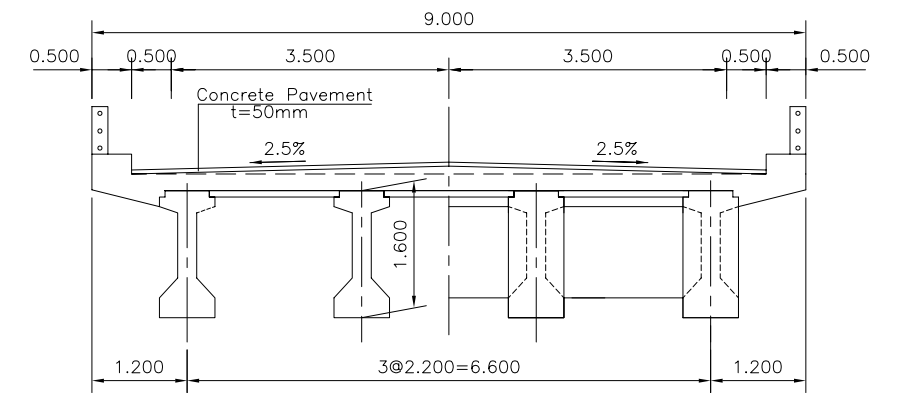
DESIGN CONDITION

Station	18+075
Bridge Type	PC - I GIRDER
Bridge Length (m)	25.00
Girder Length (m)	24.90
Span Arrangement	24.30
Effective Width	8.00
Skew Angle	90°
Live Load	HS - 25 - 44
Seismic Coefficient	0.06

SIDE ELEVATION SCALE 1:300

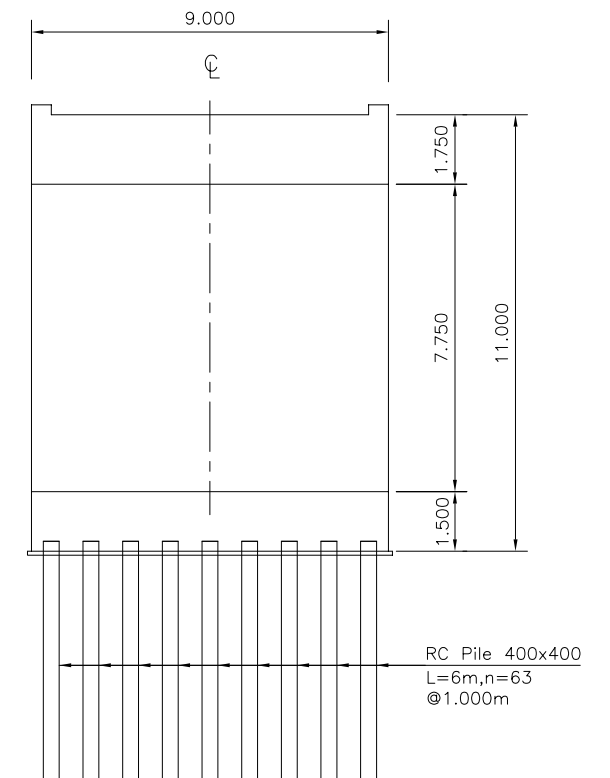


CROSS SECTION SUPERSTRUCTURE SCALE 1:100

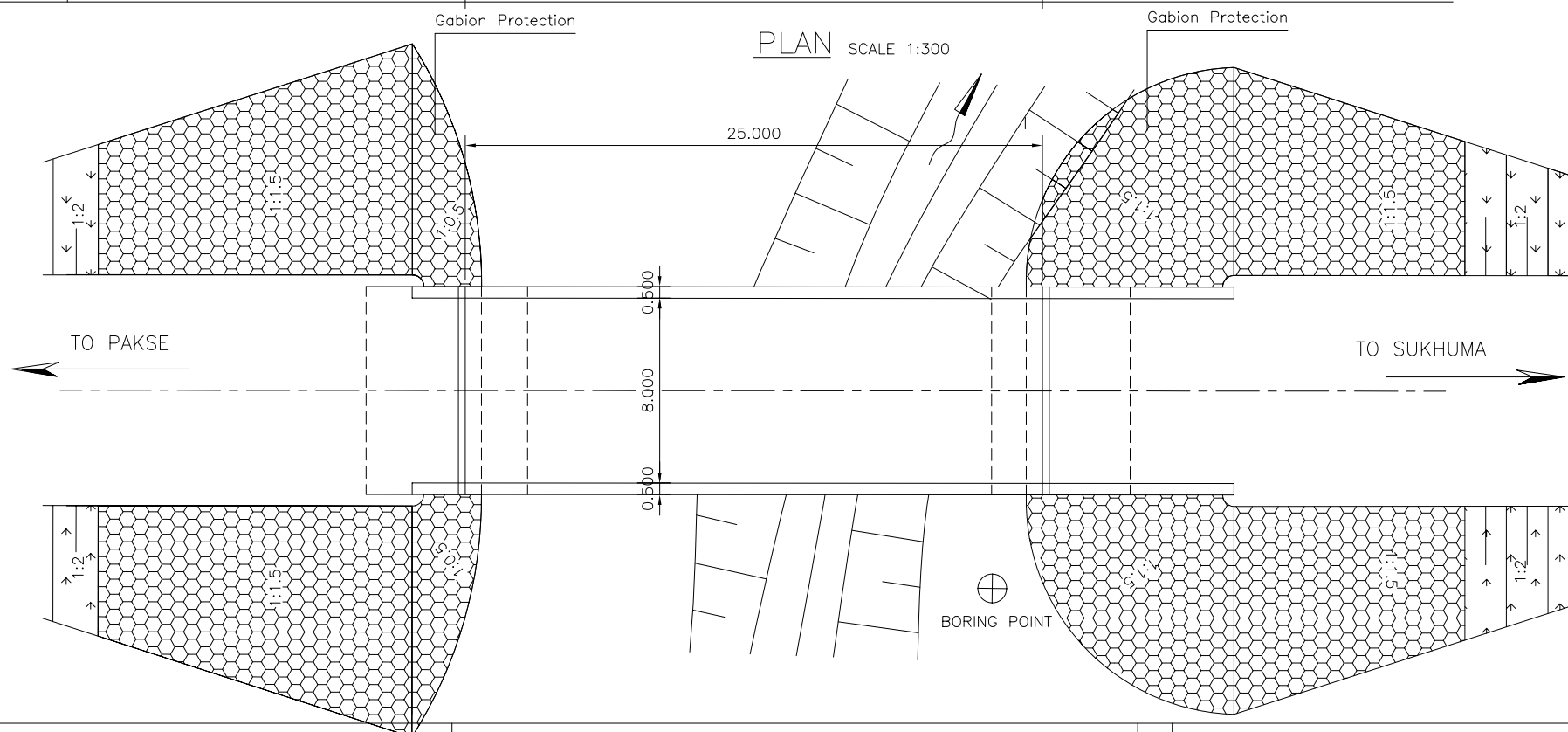


Gradient	i=1.461%		101.300	i=1.484%	
Proposed Height	100.724	100.80	100.748	25.00	
Ground Height	92.92	91.31	92.46		
Distance	0.00				
Station	18+075		18+100		

A1 ABUTMENT SCALE 1:200



PLAN SCALE 1:300



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

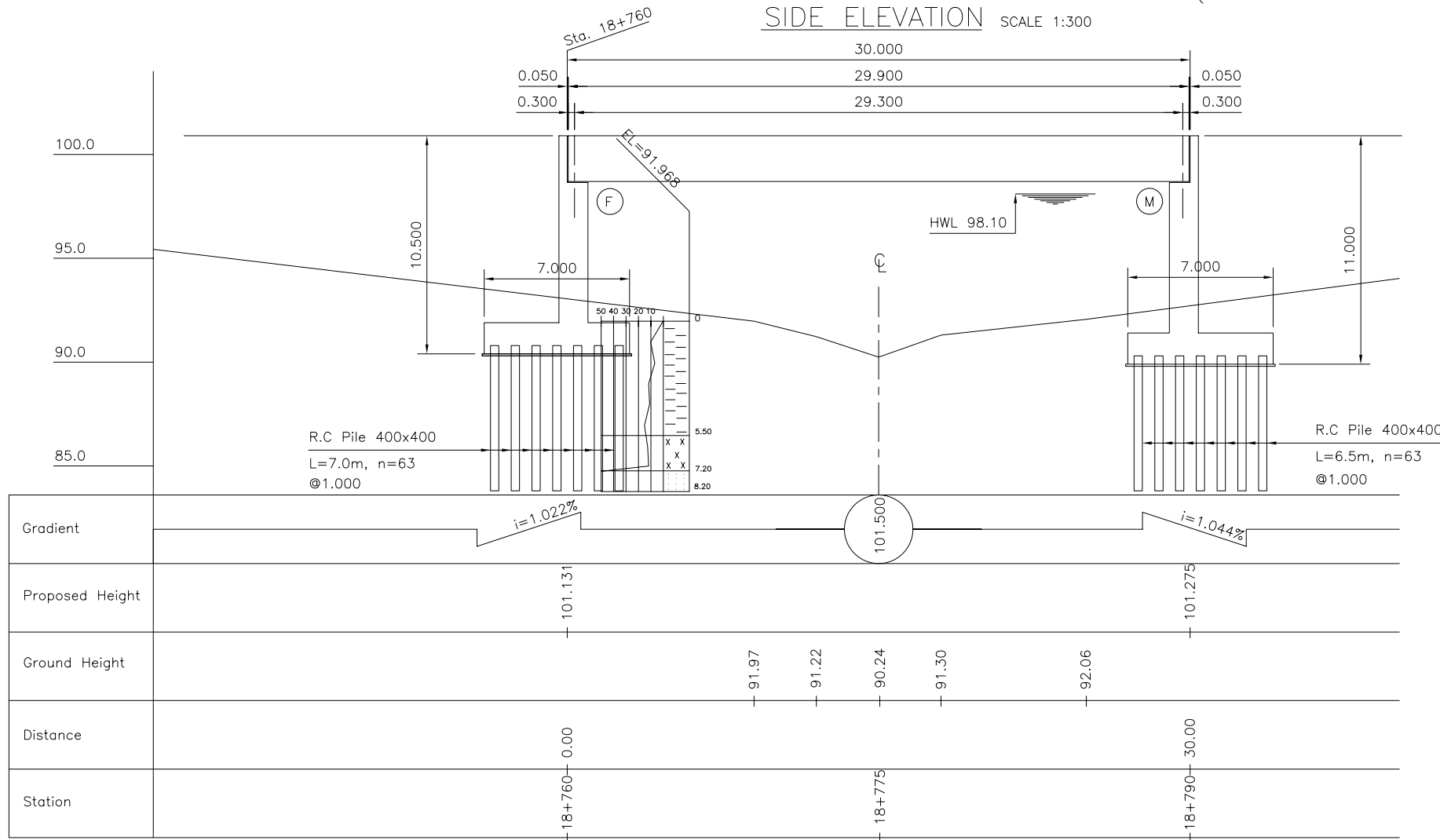
No.	REVISION	DATE
-----	----------	------

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A
GENERAL VIEW
HOUAY HONG BRIDGE (NO.15)

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-BR-006

GENERAL VIEW (HOUAY HE BRIDGE)

SIDE ELEVATION SCALE 1:300

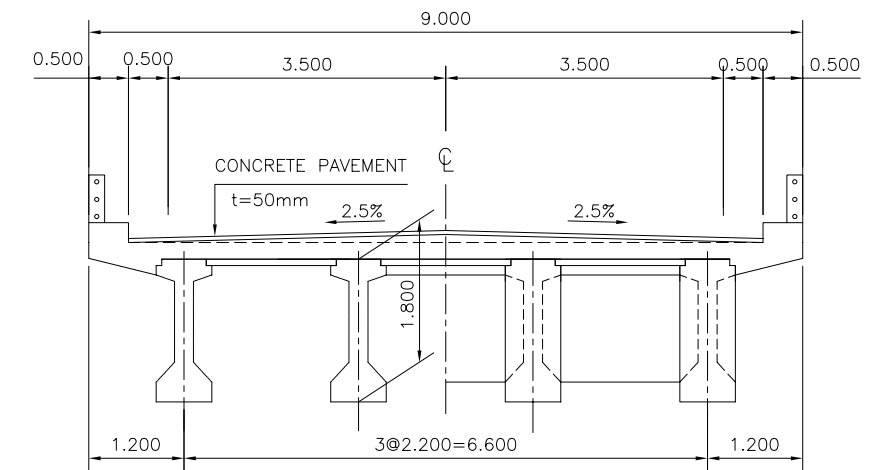


DESIGN CONDITION

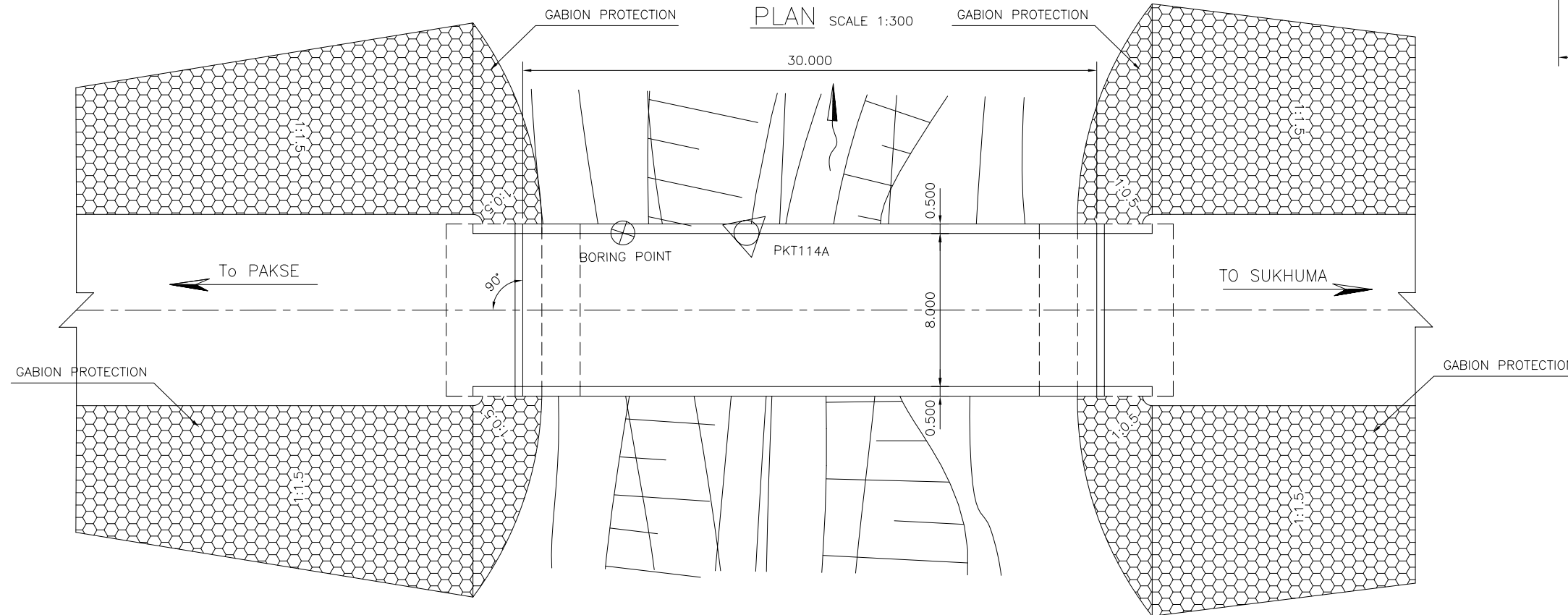
Station	18+760
Bridge Type	PC - I Girder
Bridge Length	30.000
Girder Length	29.900
Span Arrangement	29.300
Width	8.000
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.06

CROSS SECTION

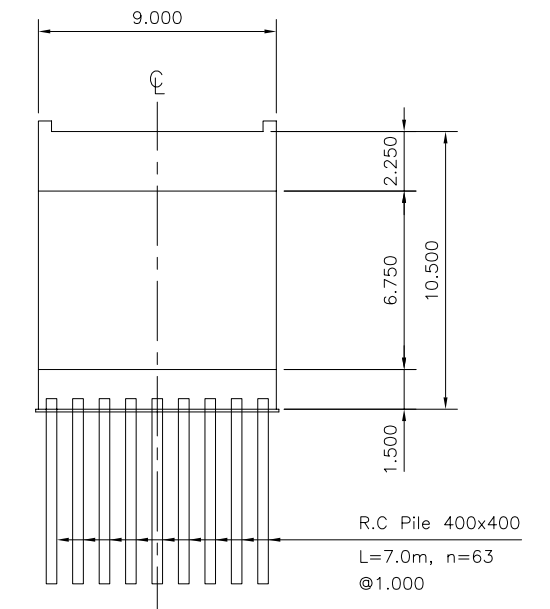
SUPERSTRUCTURE SCALE 1:100



PLAN SCALE 1:300

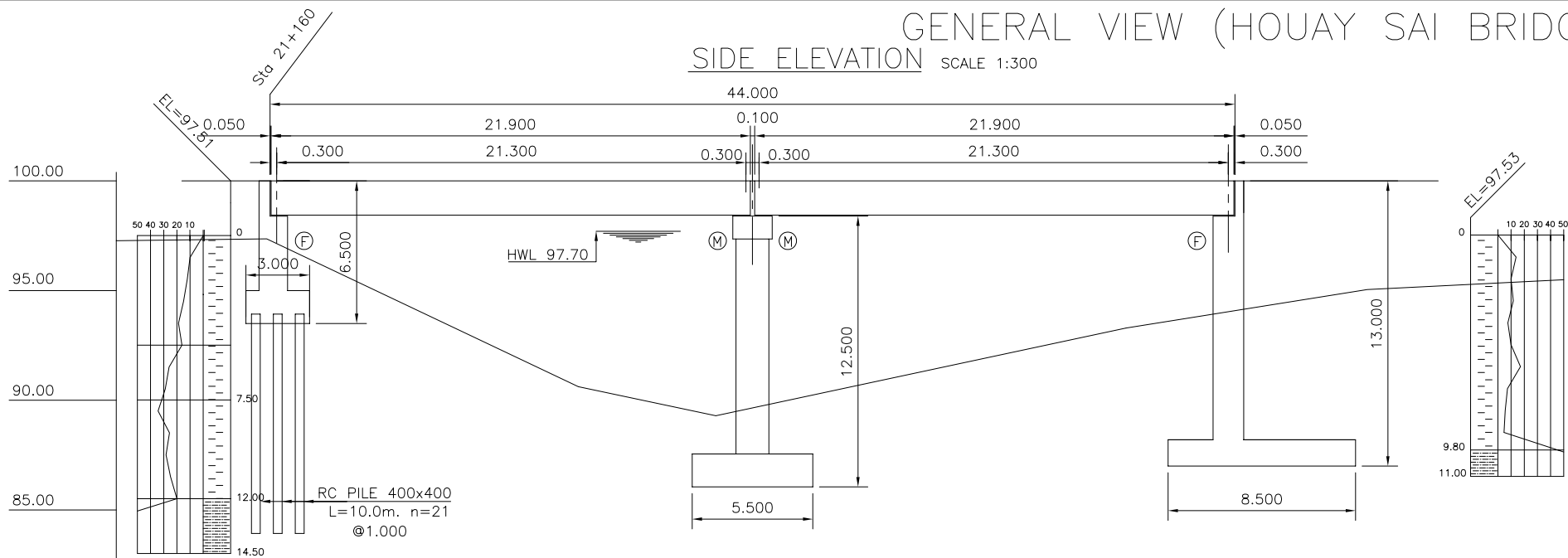


A1 ABUTMENT SCALE 1:300



GENERAL VIEW (HOUAY SAI BRIDGE)

SIDE ELEVATION SCALE 1:300

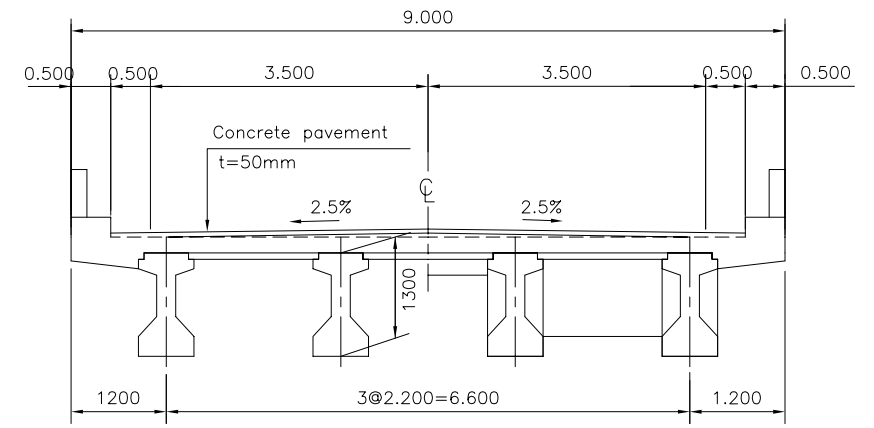


DESIGN CONDITION

Station	21+160
Bridge Type	PC I-Girder
Bridge Length	44.000
Girder Length	21.900x2
Span Arrangement	21.300x2
Width	8.000
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.06

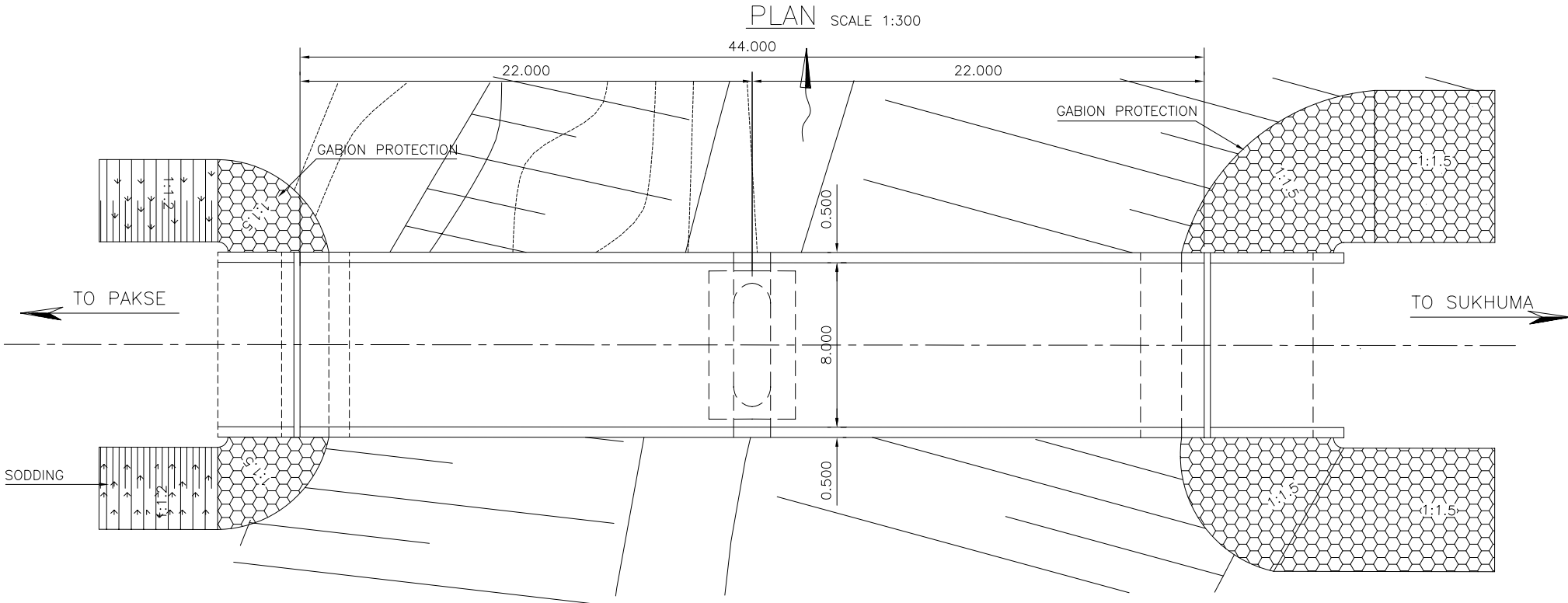
CROSS SECTION

SUPER STRUCTURE SCALE 1:100

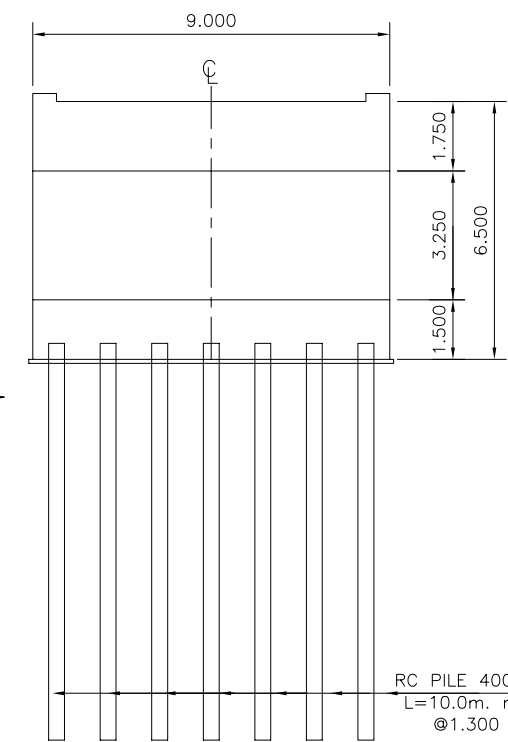


Gradient	i=1.082%		100.350	i=1.085%	
Proposed Height	100.041	100.042	100.046		
Ground Height	97.41	90.67	89.35	93.35	95.10
Distance	0.000	22.000	44.000		
Station	21+160	21+175	21+182	21+204	21+204

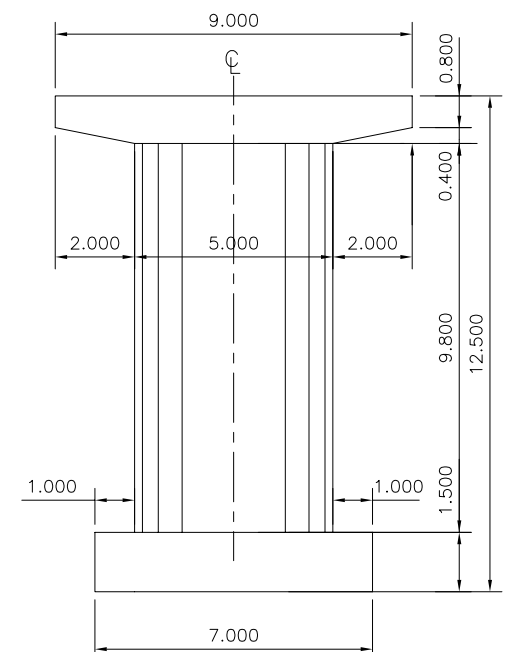
PLAN SCALE 1:300



A1 ABUTMENT SCALE 1:200



PIER SCALE 1:200



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

No.	REVISION	DATE
-----	----------	------

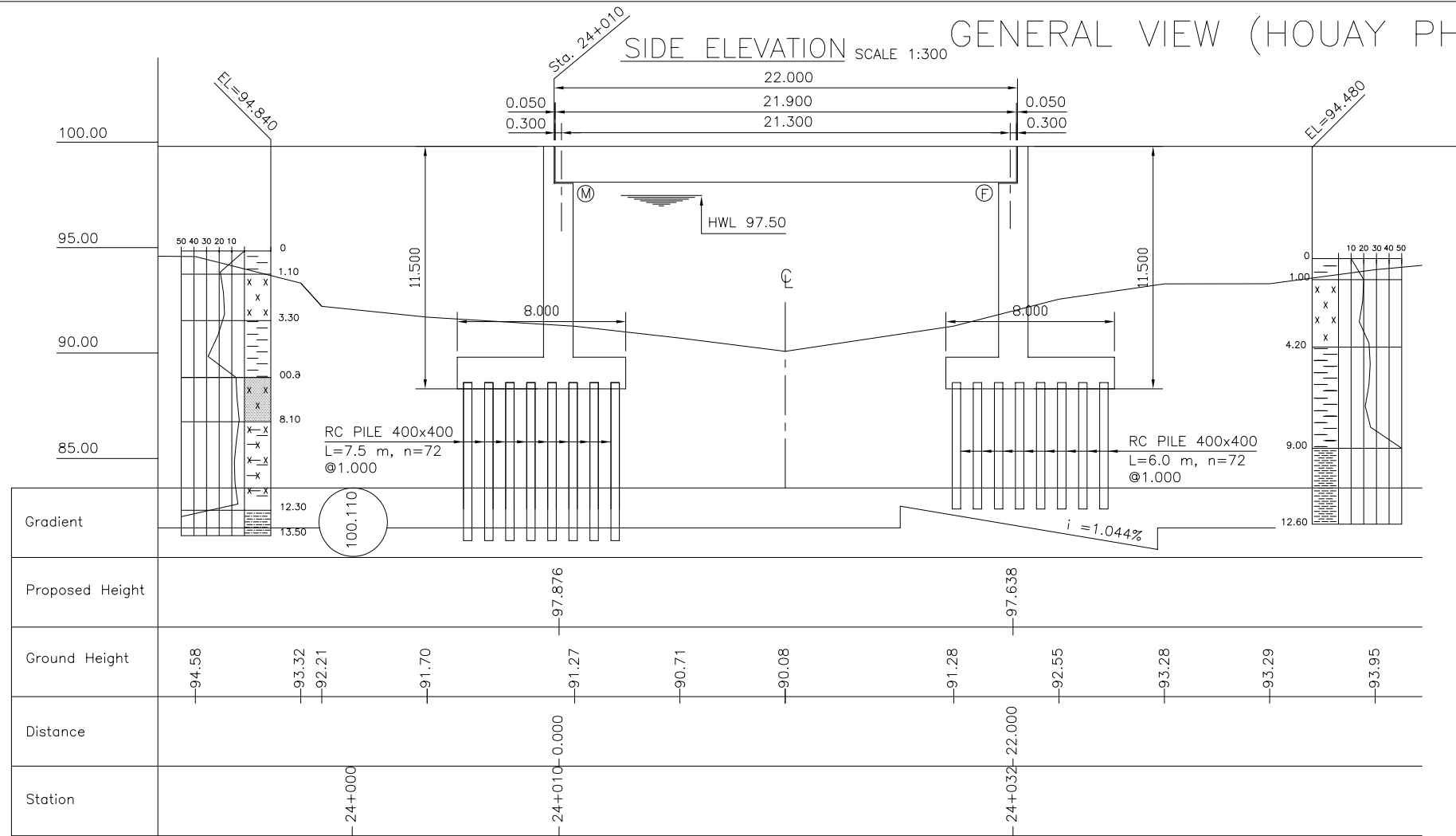
THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A GENERAL VIEW
HOUAY SAI BRIDGE (NO.18)

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-BR-008

GENERAL VIEW (HOUAY PHAPHIN BRIDGE)

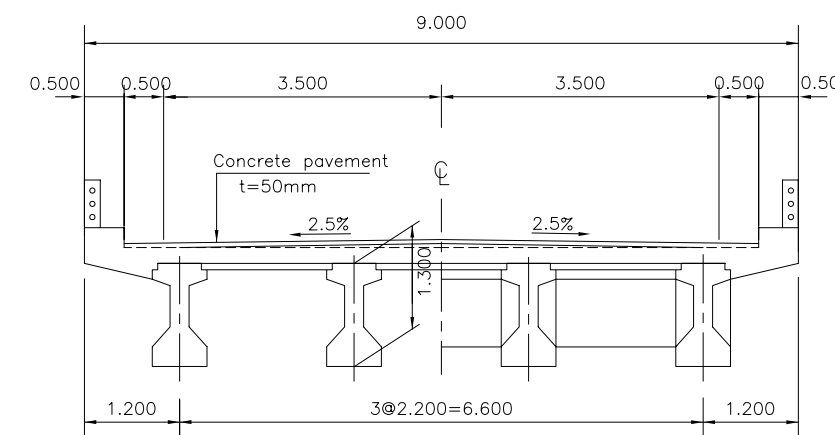
DESIGN CONDITION

Station	24+010
Bridge Type	PC-I Girder
Bridge Length	22.000
Girder Length	21.900
Span Arrangement	21.300
Width	8.000
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.06



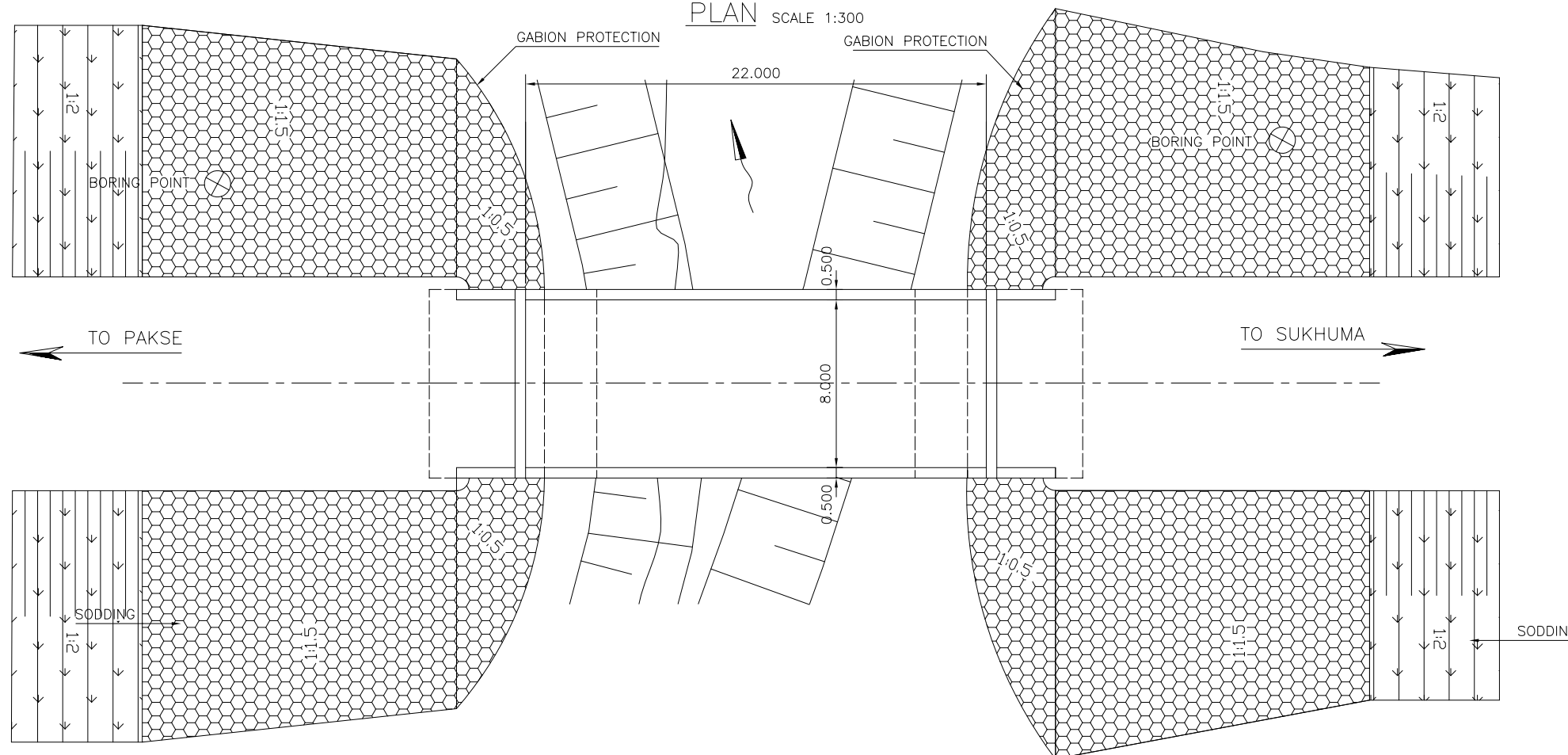
CROSS SECTION SUPERSTRUCTURE

SCALE 1:100



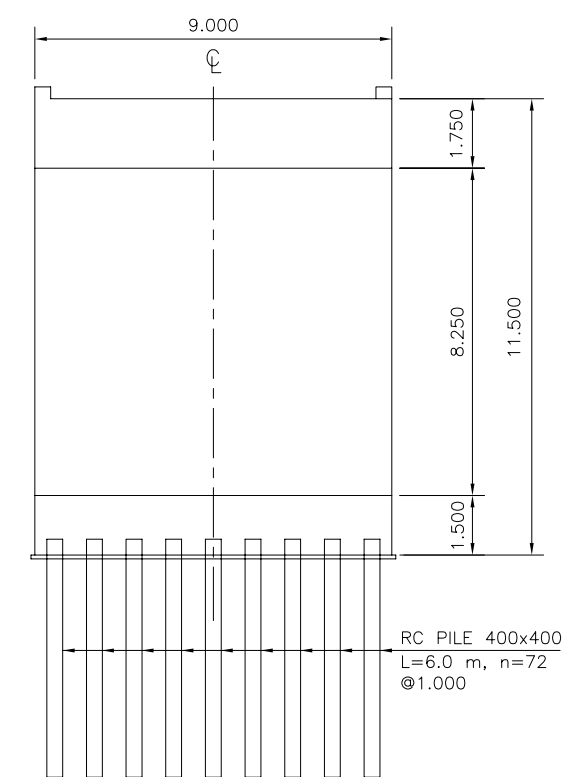
PLAN

SCALE 1:300



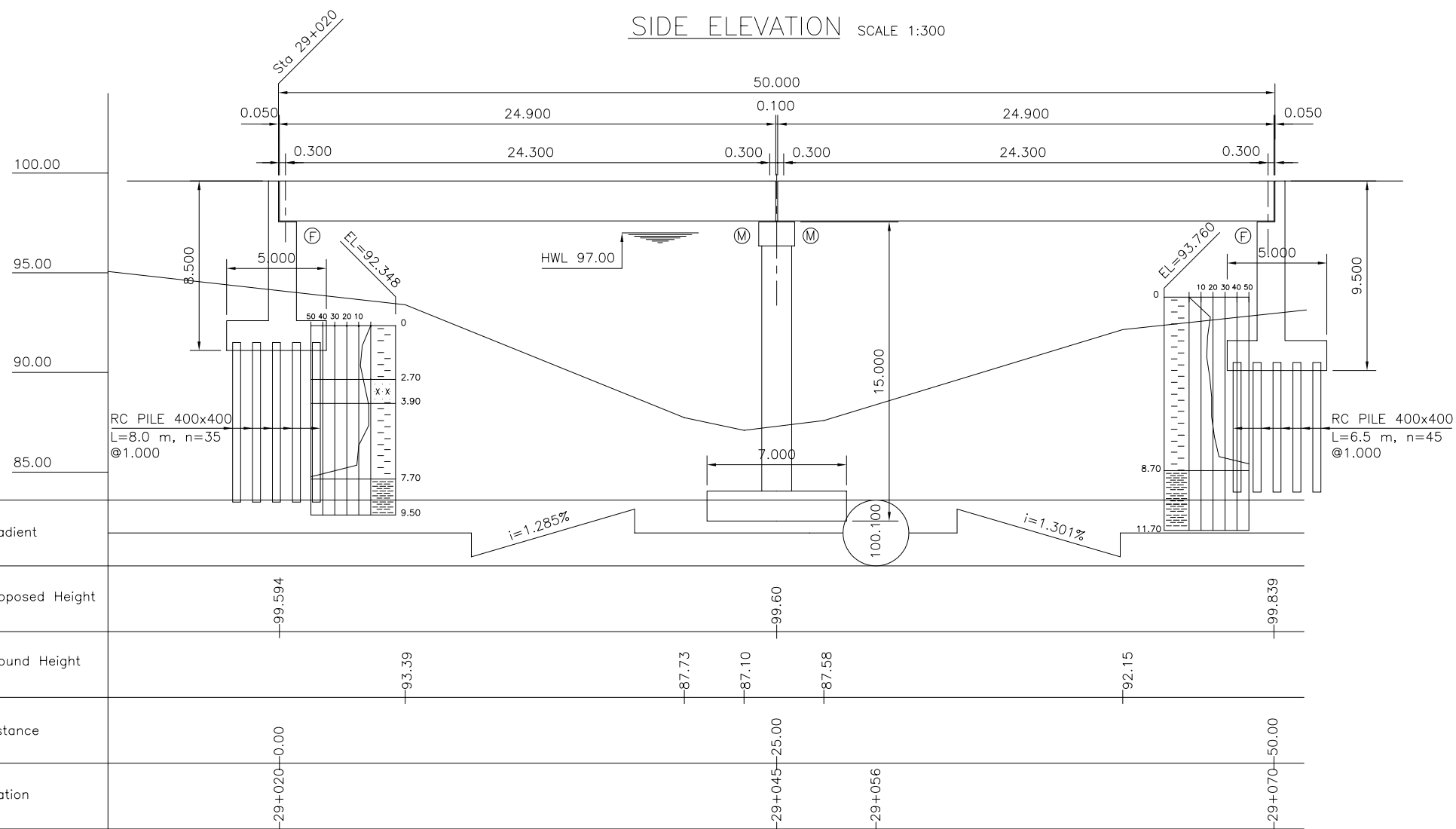
A1 ABUTMENT

SCALE 1:200



GENERAL VIEW (HOUAY PHABANG BRIDGE)

SIDE ELEVATION SCALE 1:300

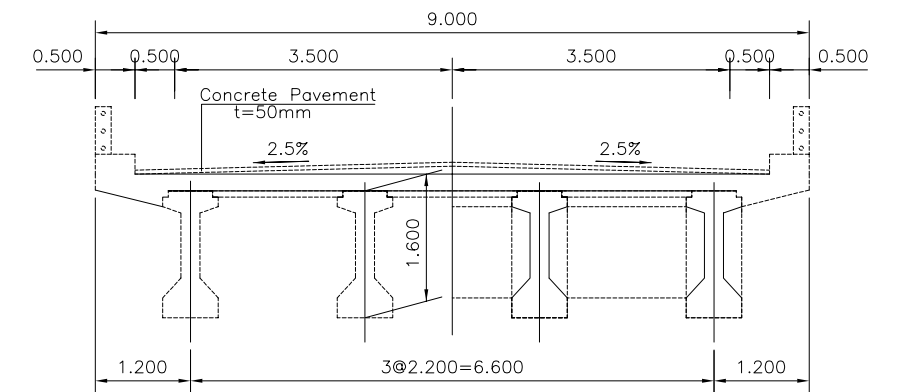


DESIGN CONDITION

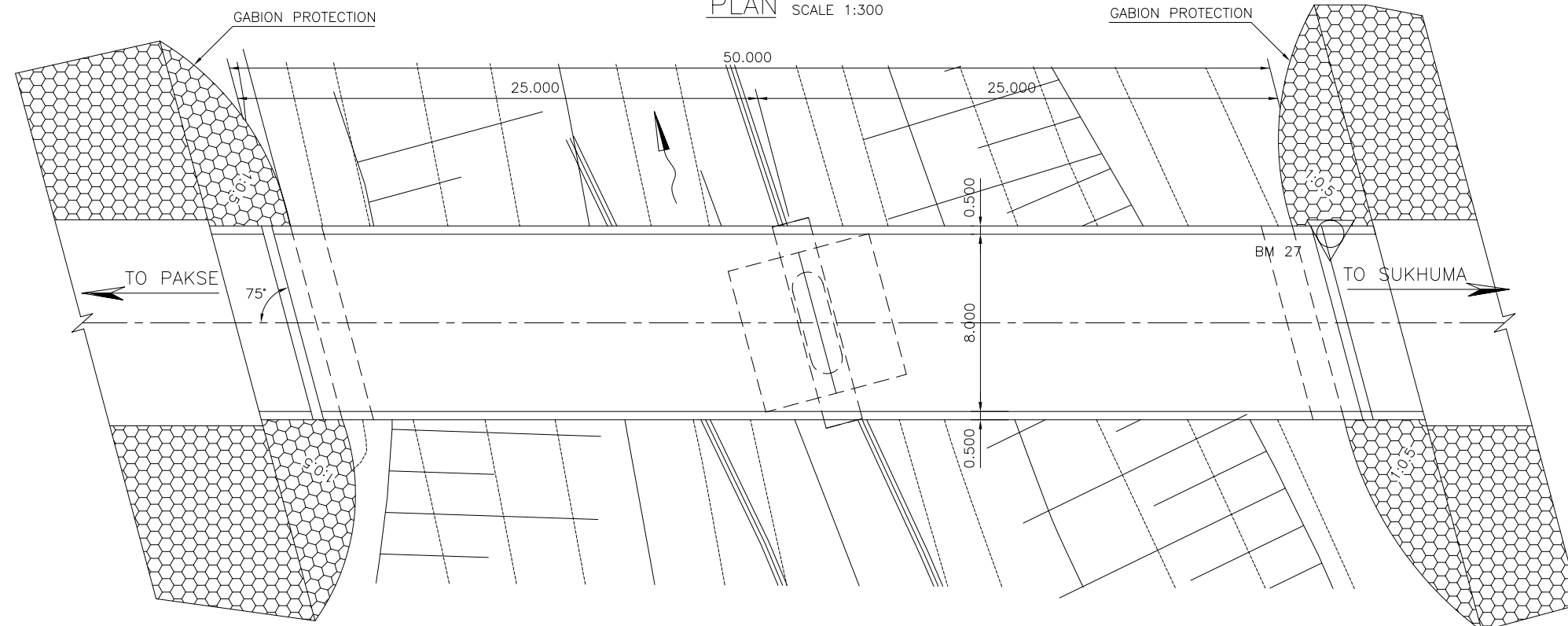
Station	29+020
Bridge Type	PC - I GIRDER
Bridge Length	50.000
Girder Length	24.900 x 2
Span Arrangement	24.300 x 2
Width	8.00
Skew Angle	75°
Live Load	HS-25-44
Seismic Coefficient	0.06

CROSS SECTION

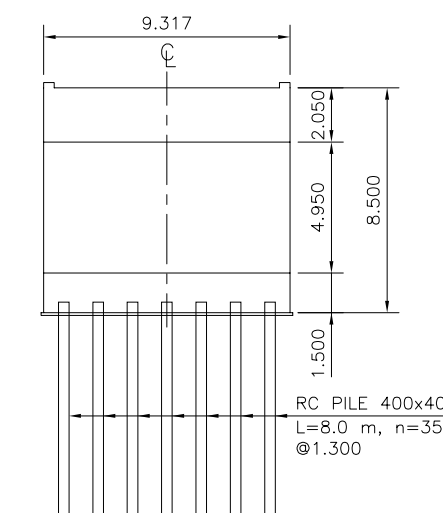
SUPERSTRUCTURE SCALE 1:100



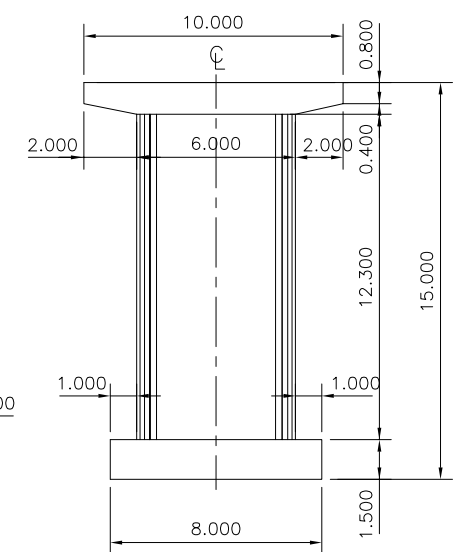
PLAN SCALE 1:300



A1 ABUTMENT SCALE 1:300



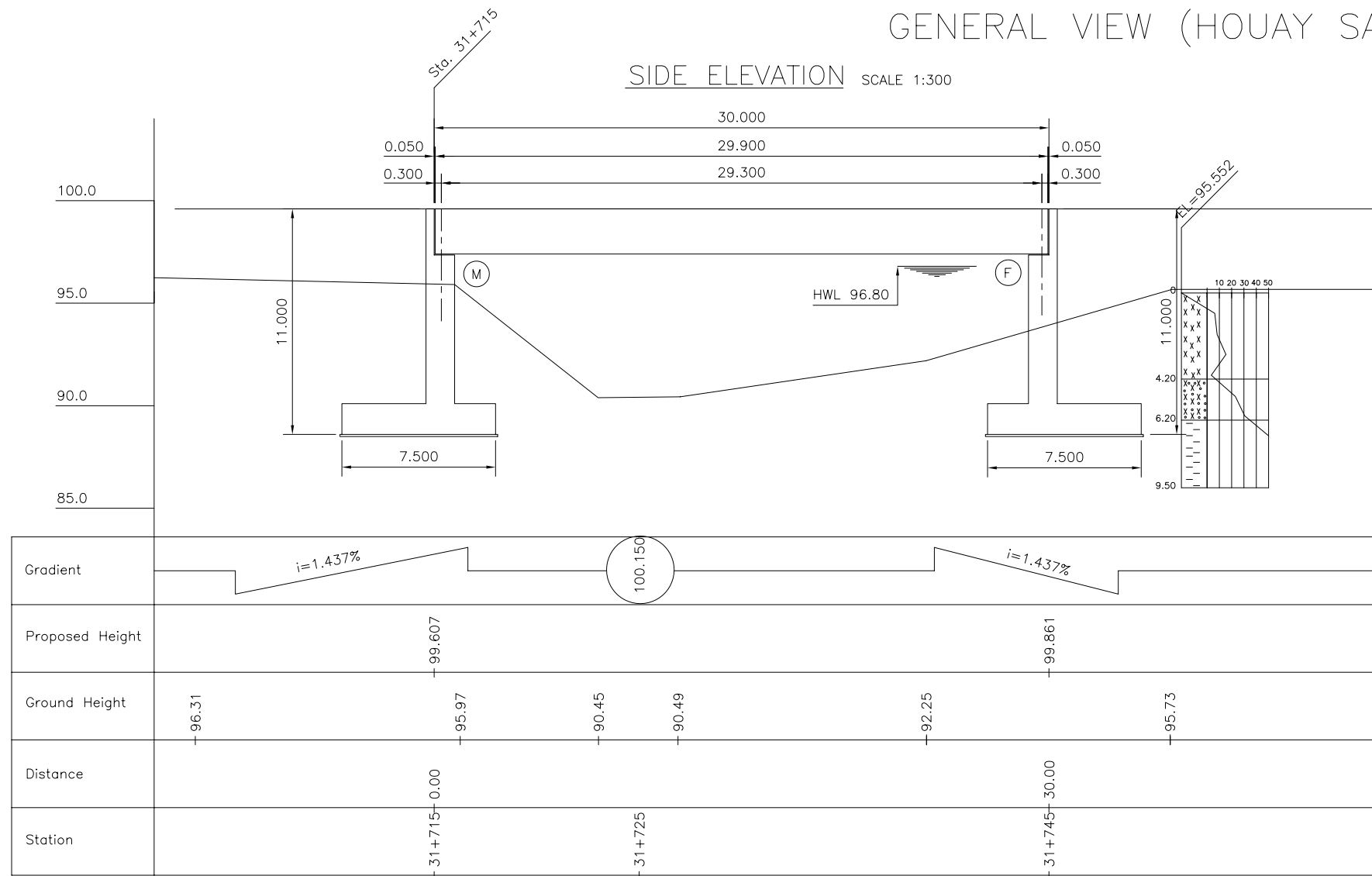
PIER SCALE 1:300



GENERAL VIEW (HOUAY SAHOVA BRIDGE)

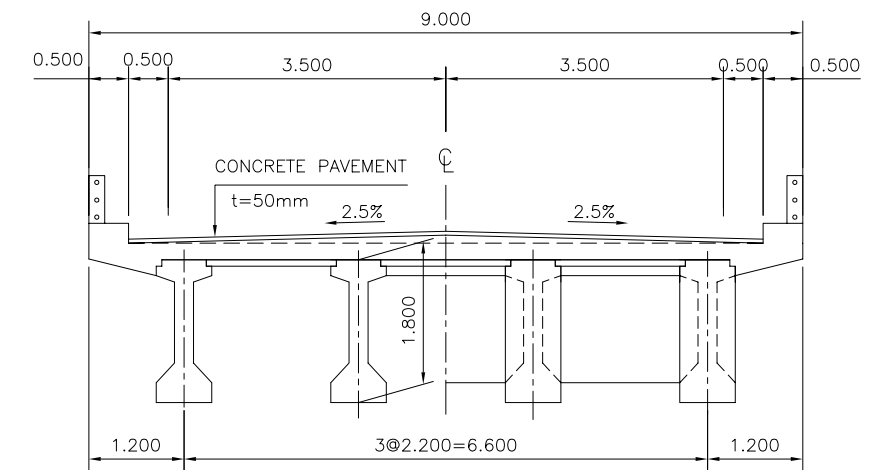
DESIGN CONDITION

SIDE ELEVATION SCALE 1:300

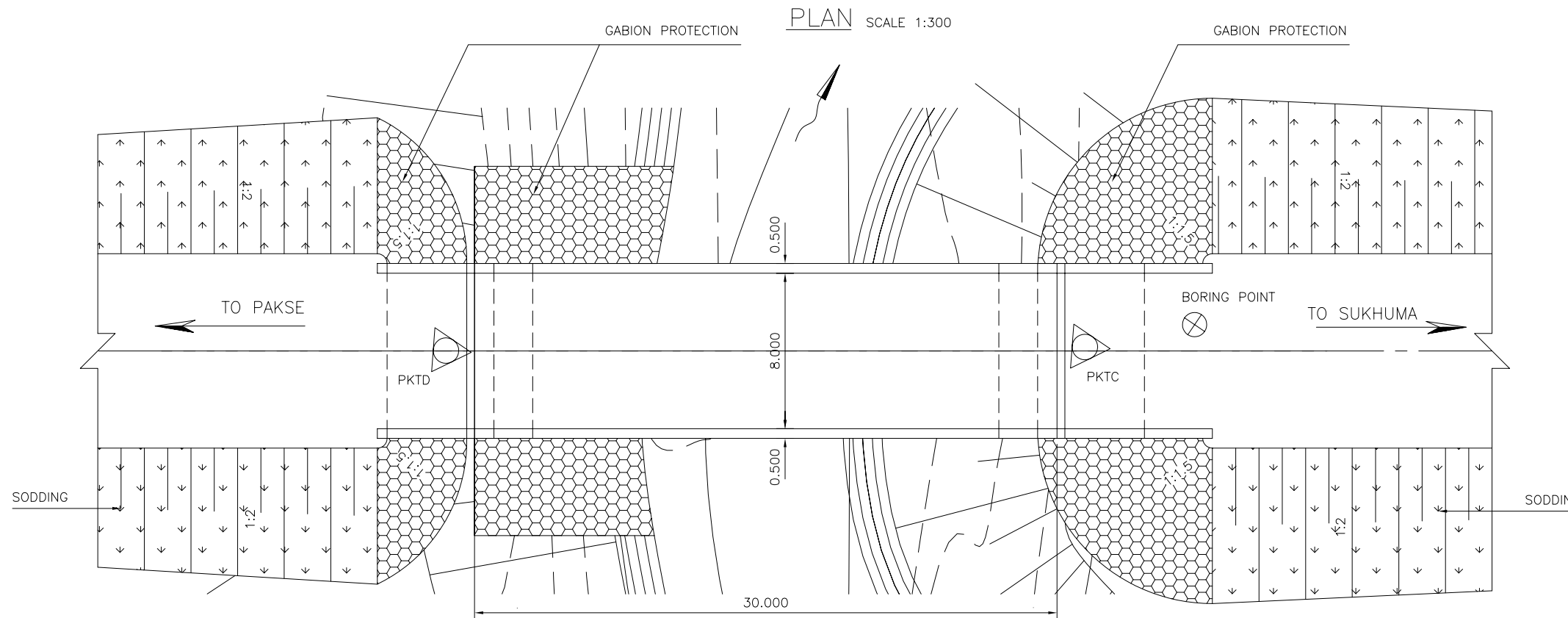


Station	31+715
Bridge Type	PC - I Girder
Bridge Length	30.000
Girder Length	29.900
Span Arrangement	29.300
Width	8.000
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.06

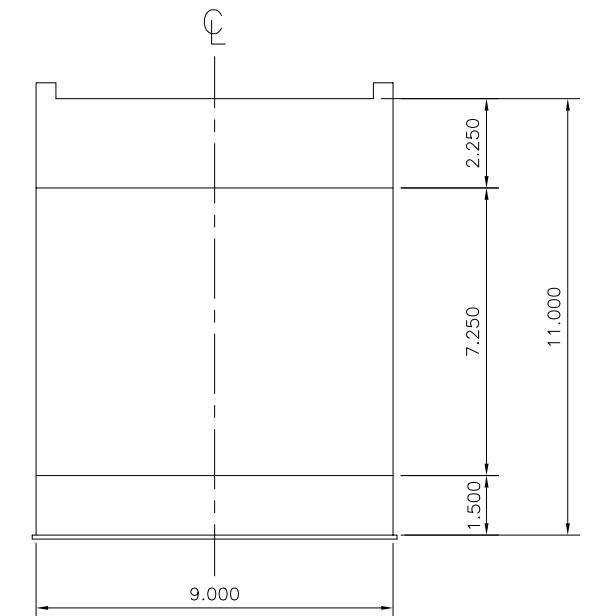
CROSS SECTION SUPERSTRUCTURE SCALE 1:100



PLAN SCALE 1:300



A1 ABUTMENT SCALE 1:200



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

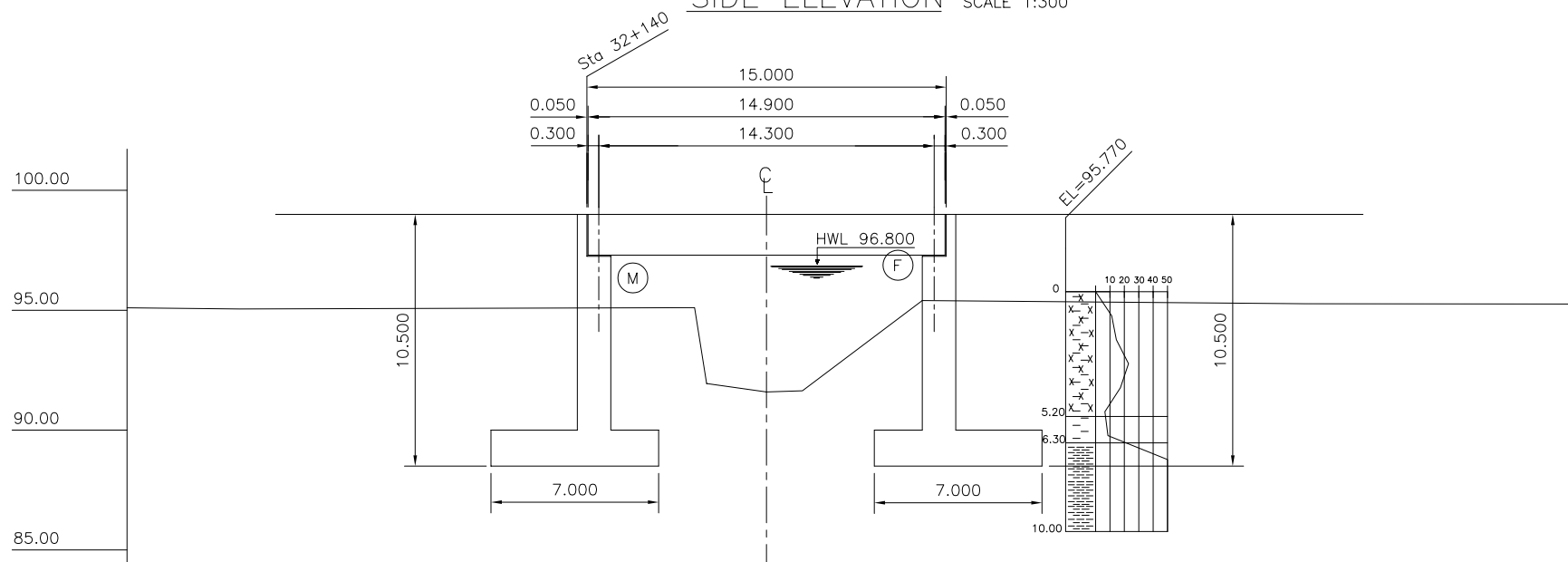
No.	REVISION	DATE
-----	----------	------

THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R.
RT.14A
GENERAL VIEW
HOUAY SAHOVA BRIDGE (No.21)

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-BR-011

GENERAL VIEW (HOUAY KOK BRIDGE)

SIDE ELEVATION SCALE 1:300

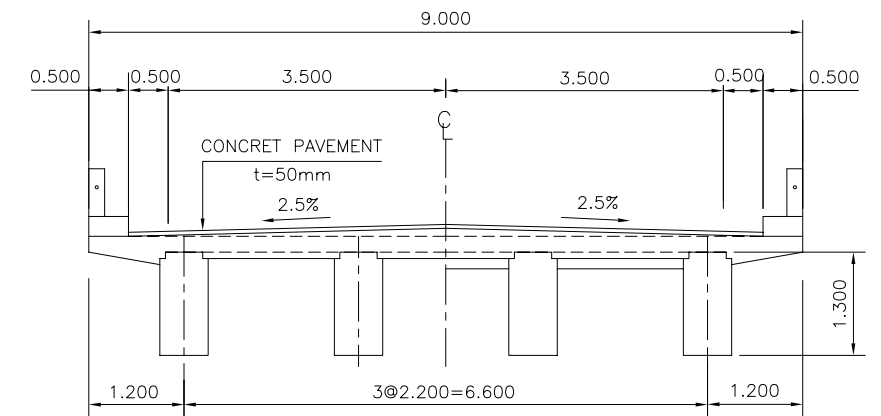


Gradient	i=0.944%		99.400	i=1.08%	
Proposed Height	99.120			99.331	
Ground Height	95.05		95.11 91.94	91.59 91.64	95.40 95.27
Distance	0.000			15.000	
Station	32+140		32+150	32+155	

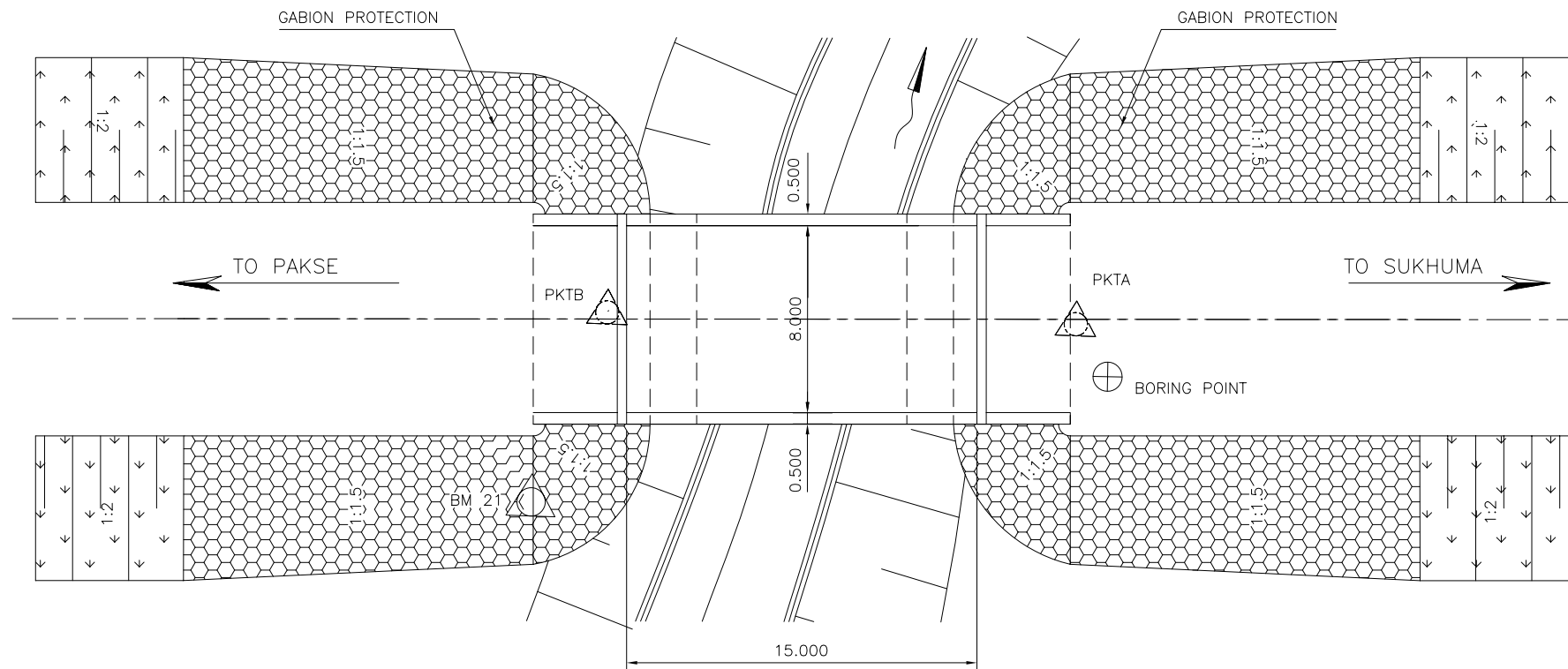
DESIGN CONDITION

Station	32+140
Bridge Type	RC - I TYPE
Bridge Length	15.000
Girder Length	14.900
Span Arrangement	14.300
Width	8.000
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.060

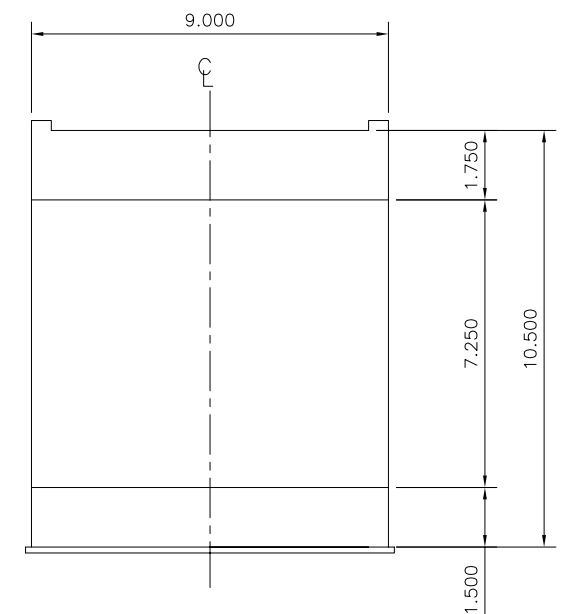
CROSS SECTION SUPERSTRUCTURE SCALE 1:100



PLAN SCALE 1:300



A1 ABUTMENT SCALE 1:200

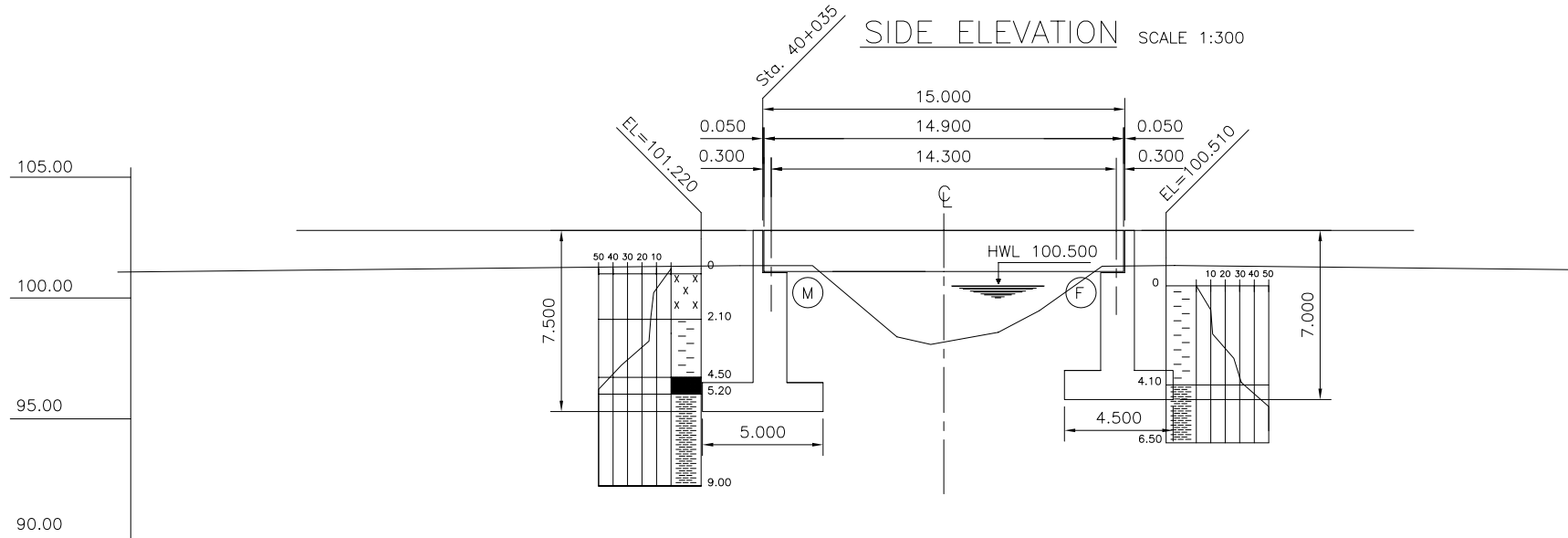


GENERAL VIEW (HOUAY THATENG BRIDGE)

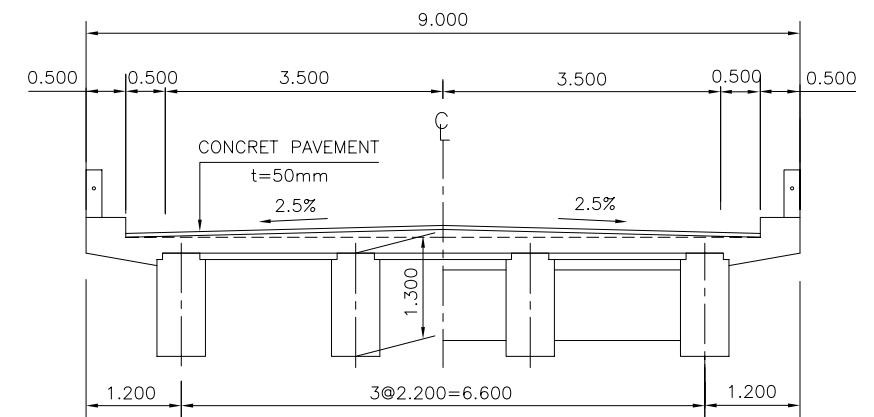
DESIGN CONDITION

Station	40+035
Bridge Type	RC - I TYPE
Bridge Length	15.000
Girder Length	14.900
Span Arrangement	14.300
Width	8.000
Skew Angle	90°
Live Load	HS-25-44
Seismic Coefficient	0.060

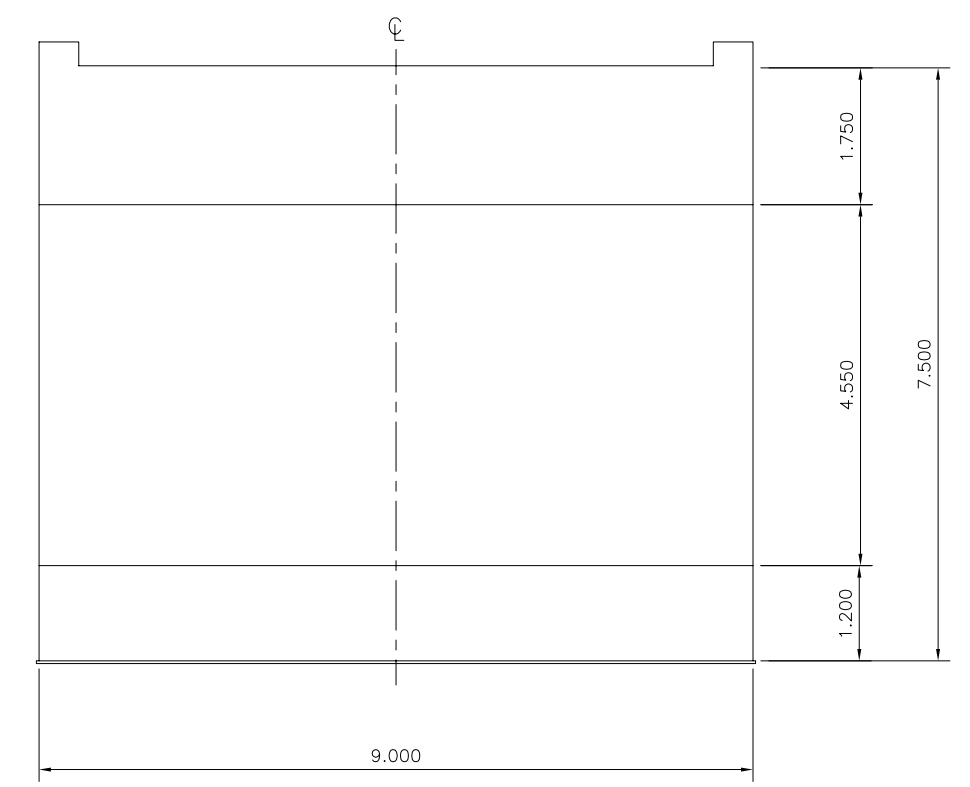
SIDE ELEVATION SCALE 1:300



CROSS SECTION SUPERSTRUCTURE SCALE 1:100

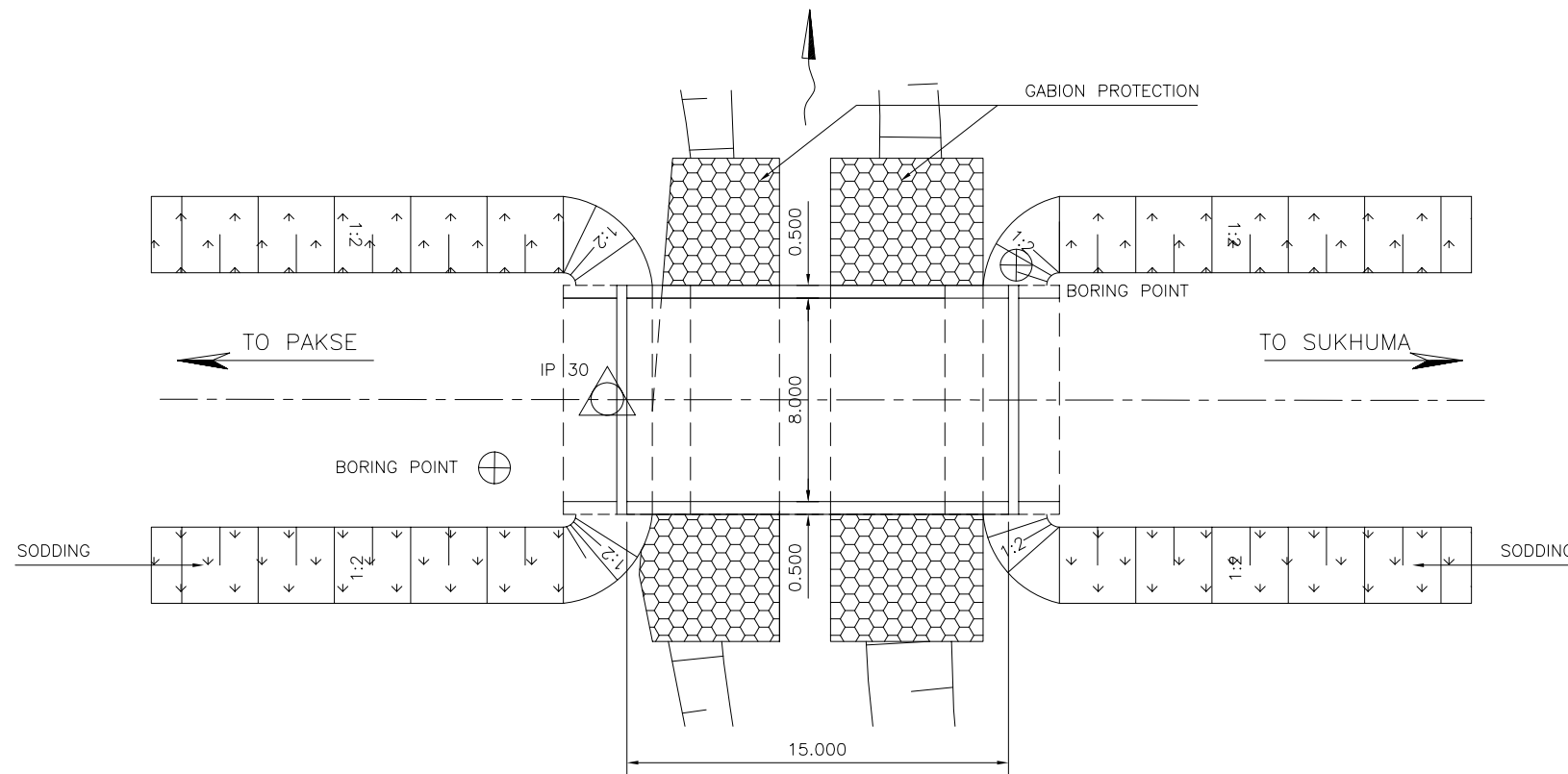


A1 ABUTMENT SCALE 1:100



Gradient	$i=0.707\%$		102.950		$i=0.636\%$	
Proposed Height		109.816		102.765		
Ground Height	101.22	101.34	101.34	98.39	98.08	101.31
Distance		0.00		15.00		
Station		40+035		40+050		

PLAN SCALE 1:300



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

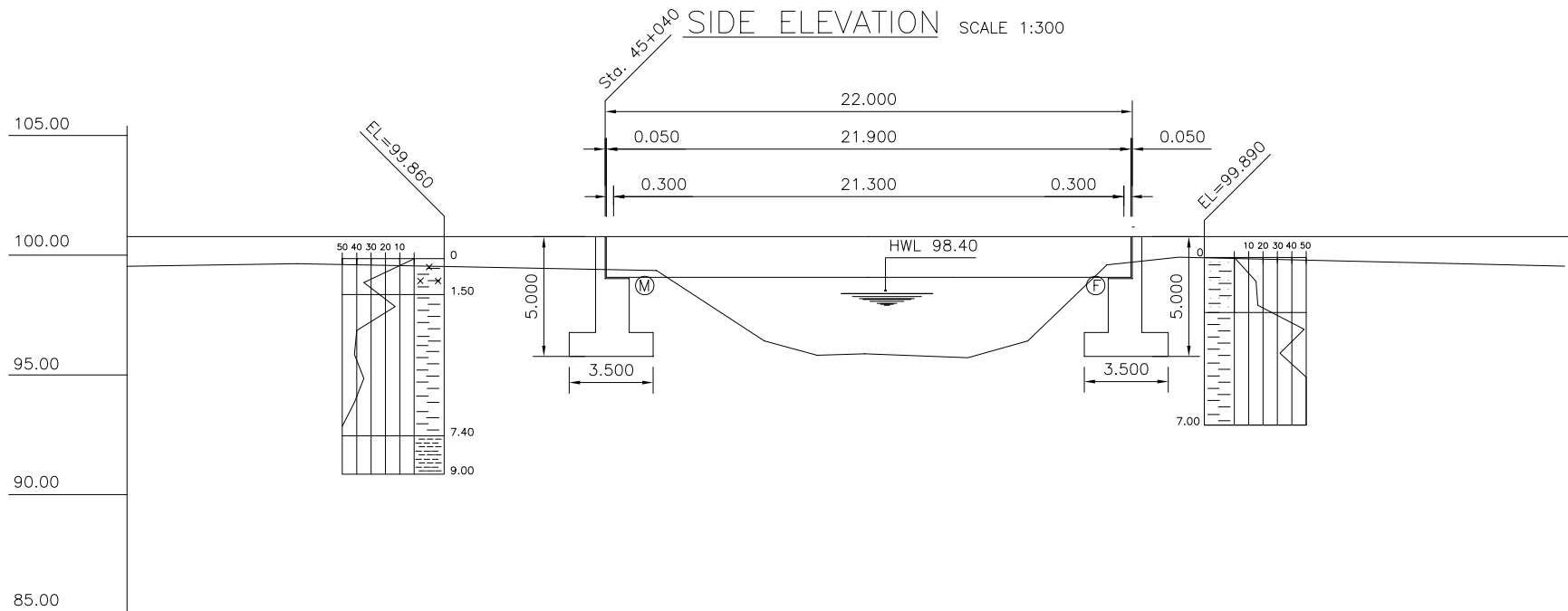
JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

No.	REVISION	DATE
-----	----------	------

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A
GENERAL VIEW
HOUAY THATENG BRIDGE (NO.24)

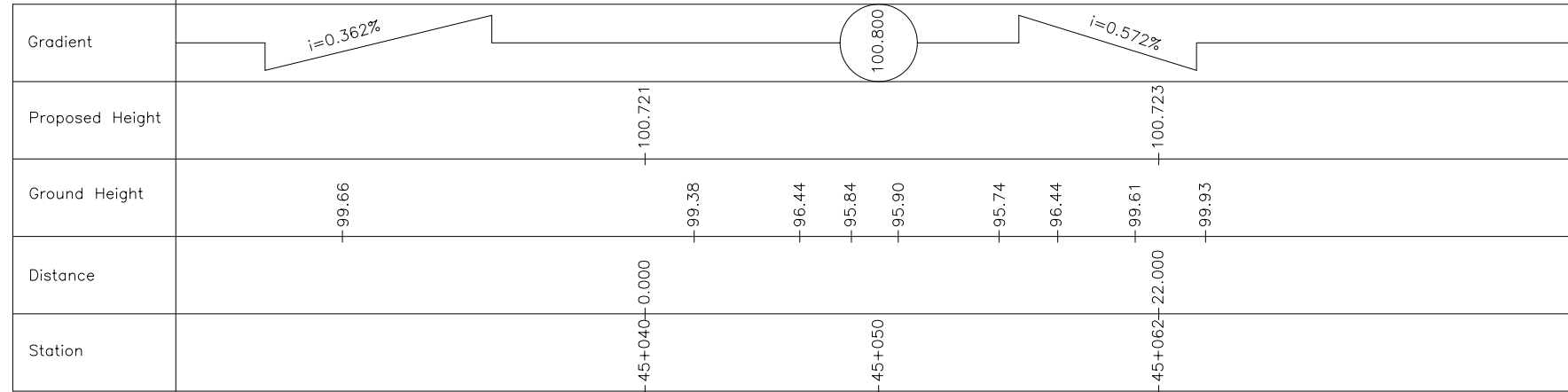
DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-BR-013

GENERAL VIEW (HOUAY MANPHA BRIDGE)



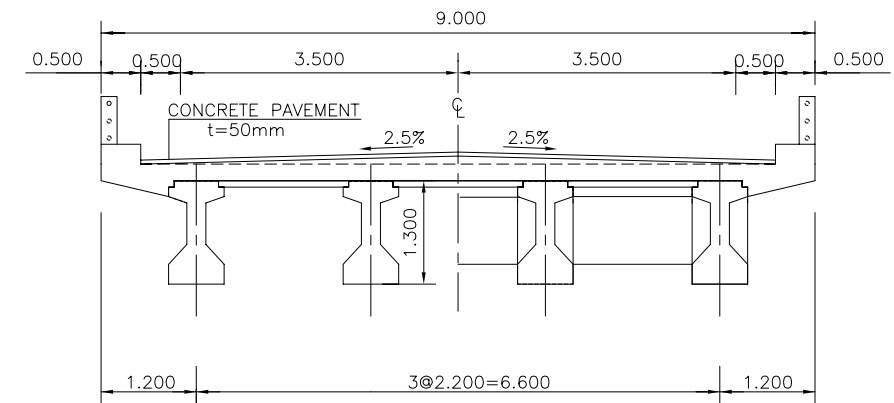
DESIGN CONDITION

Station	45+040
Bridge Type	PC - I GIRDER
Bridge Length	22.000
Girder Length	21.900
Span Arrangement	21.300
Effective Width	8.000
Skew Angle	90°
Live Load	H-25-44
Seismic Coefficient	0.06

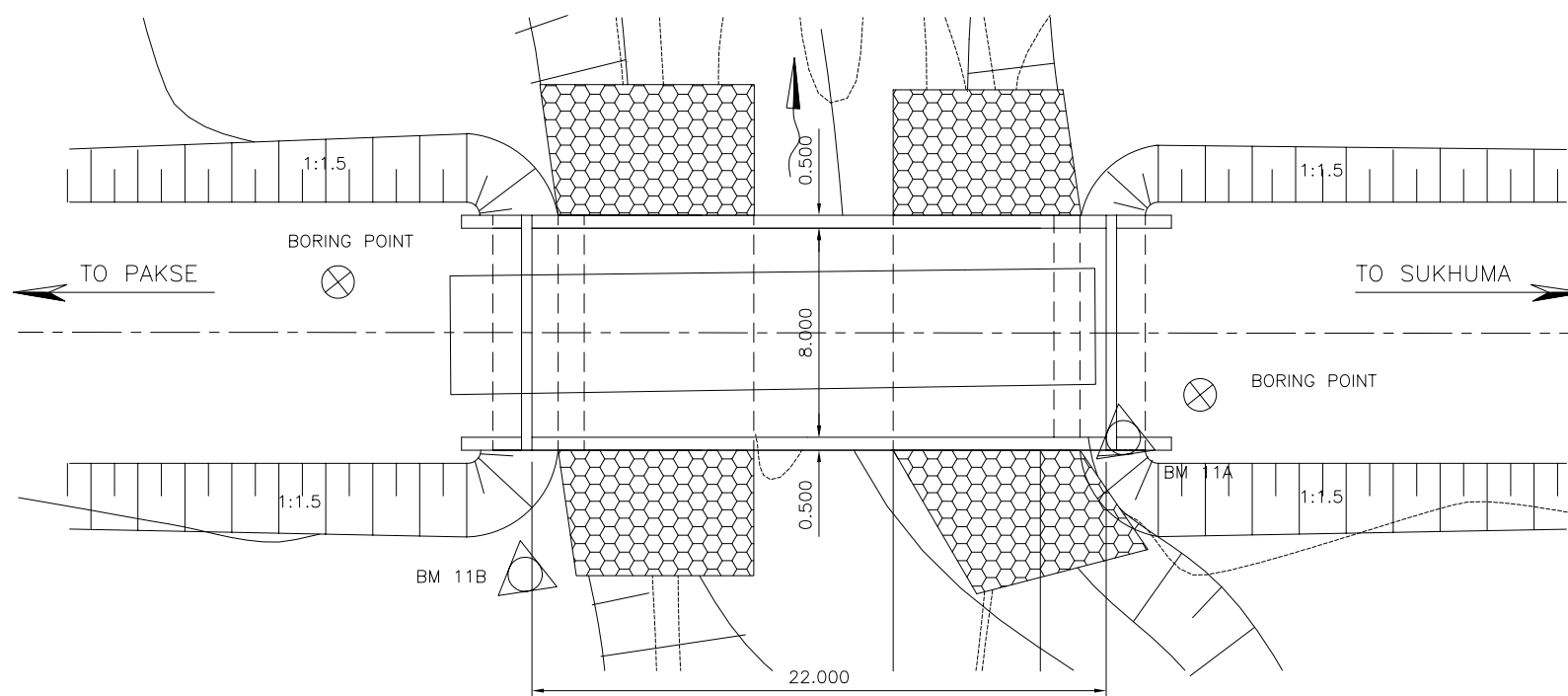
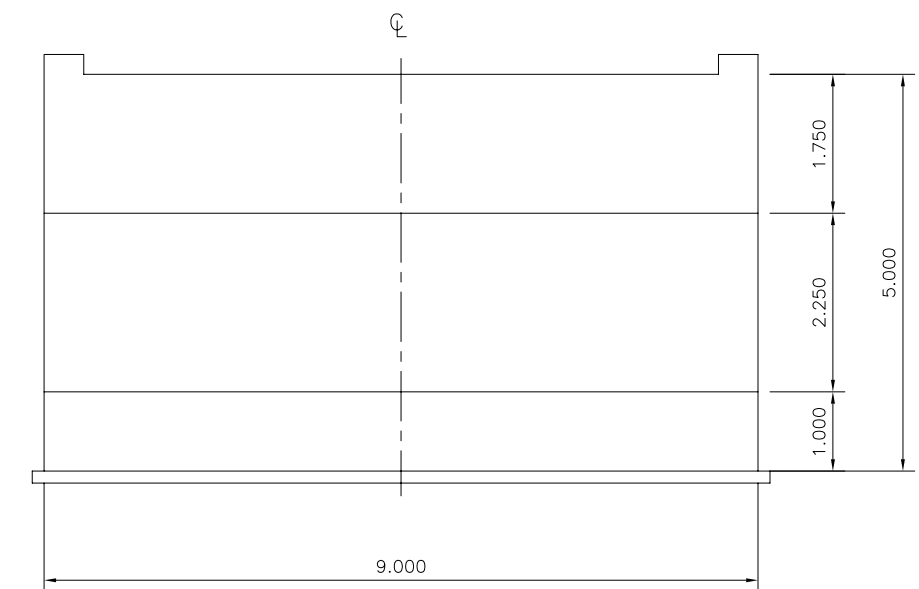


PLAN SCALE 1:300

CROSS SECTION SUPERSTRUCTURE SCALE 1:100



A1 ABUTMENT SCALE 1:100



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS COMPANY LIMITED
&
PADECO COMPANY LIMITED

No.	REVISION	DATE
-----	----------	------

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.14A GENERAL VIEW
HOUAY MANPHA BRIDGE (No.25)

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R14-BR-014