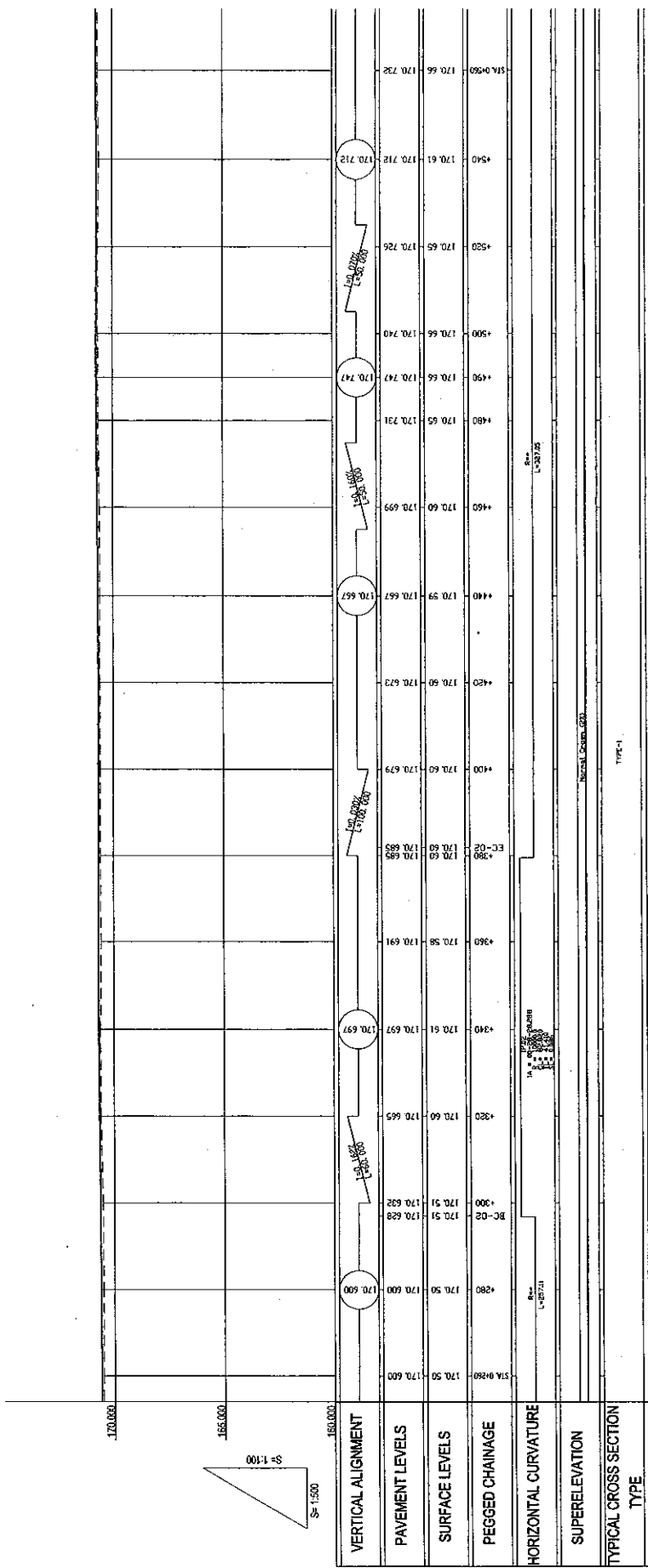
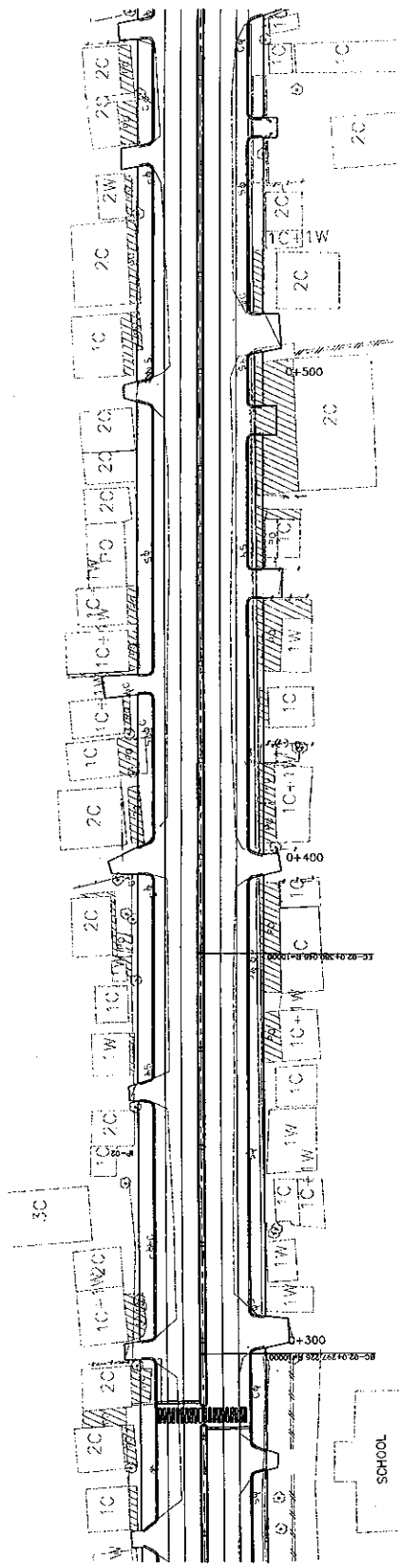
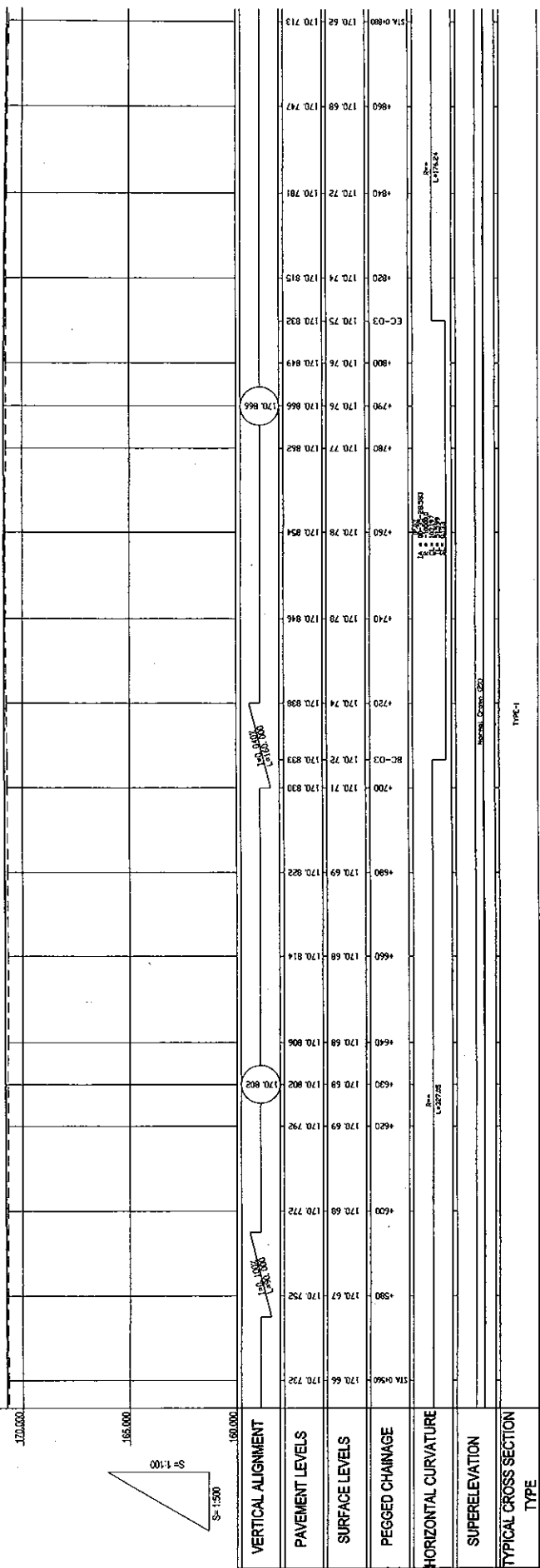
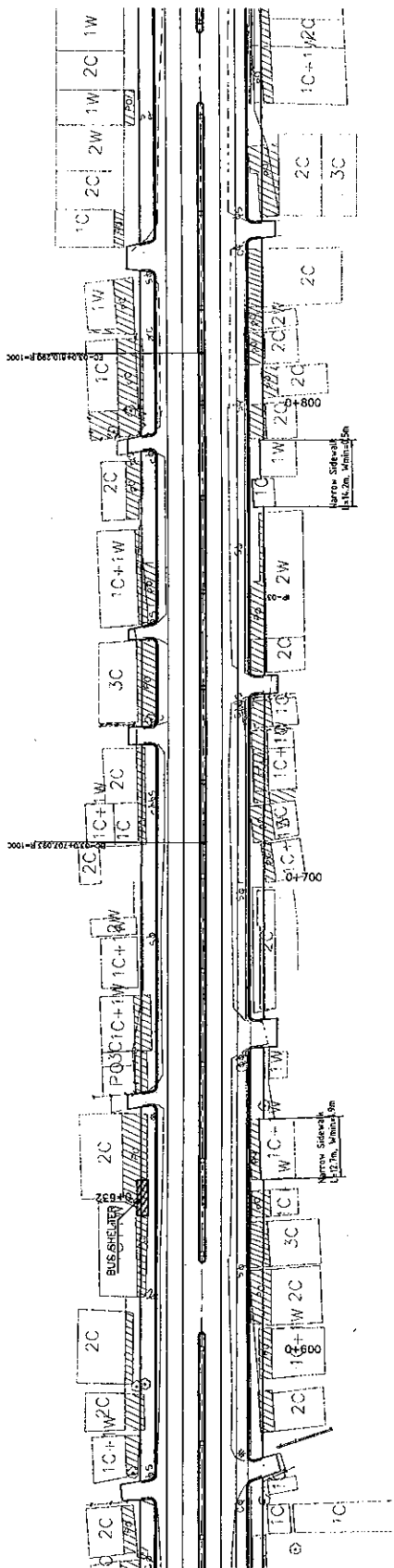


ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	PLAN AND PROFILE (STA. 0+44.5 - STA. 0+200)	SCALE: H=1:500 V=1:100	DRAWING No: PL-01
TYPICAL CROSS SECTION TYPE		TYPE-1			

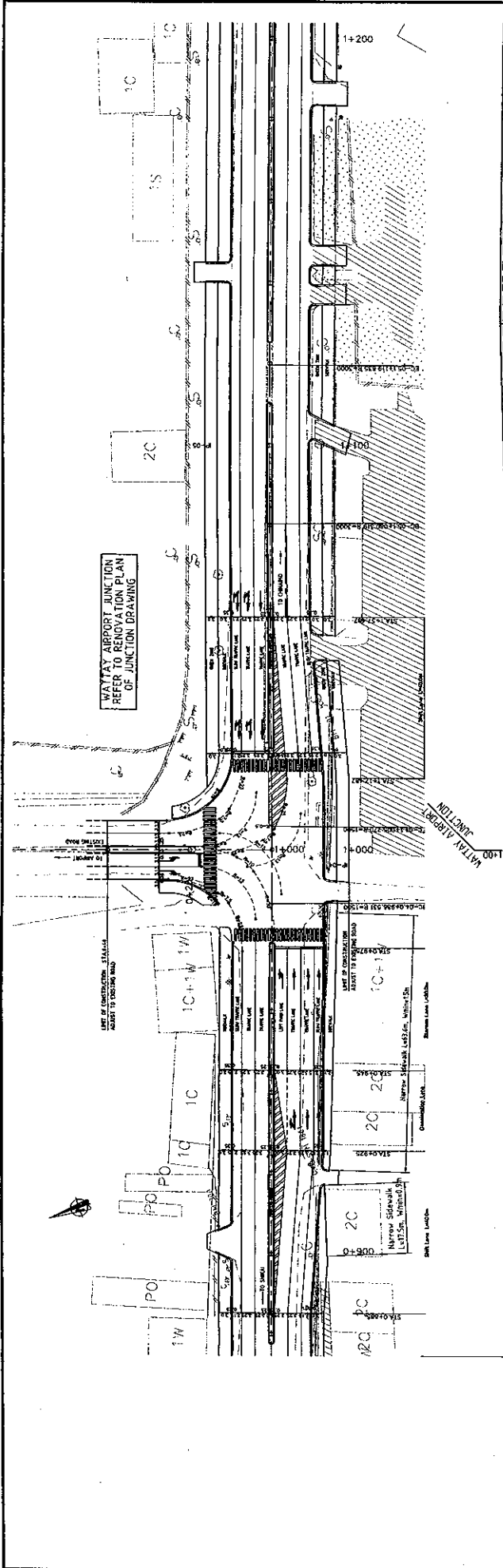


VERTICAL ALIGNMENT	170.000	170.050	170.100	170.150	170.200	170.250	170.300	170.350	170.400	170.450	170.500	170.550	170.600	170.650	170.700	170.720
PAVEMENT LEVELS																
SURFACE LEVELS																
PEGGED CHAINAGE																
HORIZONTAL CURVATURE																
SUPERELEVATION																
TYPICAL CROSS SECTION TYPE																

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA. 0+260 - STA. 0+560)
			SCALE:	H=1:500 V=1:100
			DRAWING No.	PL-02
Rev				



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	PLAN AND PROFILE (STA. 0+560 - STA. 0+880)
			SCALE:	H=1:500 V=1:100
			DRAWING No:	PL-03
			REV.	



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000						TYPE-1
166.000						TYPE-2
160.000						TYPE-3
170.62	170.62	170.62	+900			
170.713	170.69	170.679	+920			
170.82	170.57	170.645	+940			
170.880	170.55	170.611	+960			
170.94	170.52	170.577	+980			
170.980	170.43	170.543	+980			
171.000	170.42	170.527	170.43	170.43	170.534	
171.018	170.42	170.527	170.43	170.43	170.534	
171.023	170.42	170.527	170.43	170.43	170.534	
171.037	170.42	170.527	170.43	170.43	170.534	
171.056	170.42	170.527	170.43	170.43	170.534	
171.071	170.42	170.527	170.43	170.43	170.534	
171.086	170.42	170.527	170.43	170.43	170.534	
171.101	170.42	170.527	170.43	170.43	170.534	
171.116	170.42	170.527	170.43	170.43	170.534	
171.131	170.42	170.527	170.43	170.43	170.534	
171.146	170.42	170.527	170.43	170.43	170.534	
171.161	170.42	170.527	170.43	170.43	170.534	
171.176	170.42	170.527	170.43	170.43	170.534	
171.191	170.42	170.527	170.43	170.43	170.534	
171.206	170.42	170.527	170.43	170.43	170.534	
171.221	170.42	170.527	170.43	170.43	170.534	
171.236	170.42	170.527	170.43	170.43	170.534	
171.251	170.42	170.527	170.43	170.43	170.534	
171.266	170.42	170.527	170.43	170.43	170.534	
171.281	170.42	170.527	170.43	170.43	170.534	
171.296	170.42	170.527	170.43	170.43	170.534	
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171.476	170.42	170.527	170.43	170.43	170.534	
171.491	170.42	170.527	170.43	170.43	170.534	
171.506	170.42	170.527	170.43	170.43	170.534	
171.521	170.42	170.527	170.43	170.43	170.534	
171.536	170.42	170.527	170.43	170.43	170.534	
171.551	170.42	170.527	170.43	170.43	170.534	
171.566	170.42	170.527	170.43	170.43	170.534	
171.581	170.42	170.527	170.43	170.43	170.534	
171.596	170.42	170.527	170.43	170.43	170.534	
171.611	170.42	170.527	170.43	170.43	170.534	
171.626	170.42	170.527	170.43	170.43	170.534	
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171.656	170.42	170.527	170.43	170.43	170.534	
171.671	170.42	170.527	170.43	170.43	170.534	
171.686	170.42	170.527	170.43	170.43	170.534	
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171.911	170.42	170.527	170.43	170.43	170.534	
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171.956	170.42	170.527	170.43	170.43	170.534	
171.971	170.42	170.527	170.43	170.43	170.534	
171.986	170.42	170.527	170.43	170.43	170.534	
172.001	170.42	170.527	170.43	170.43	170.534	

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

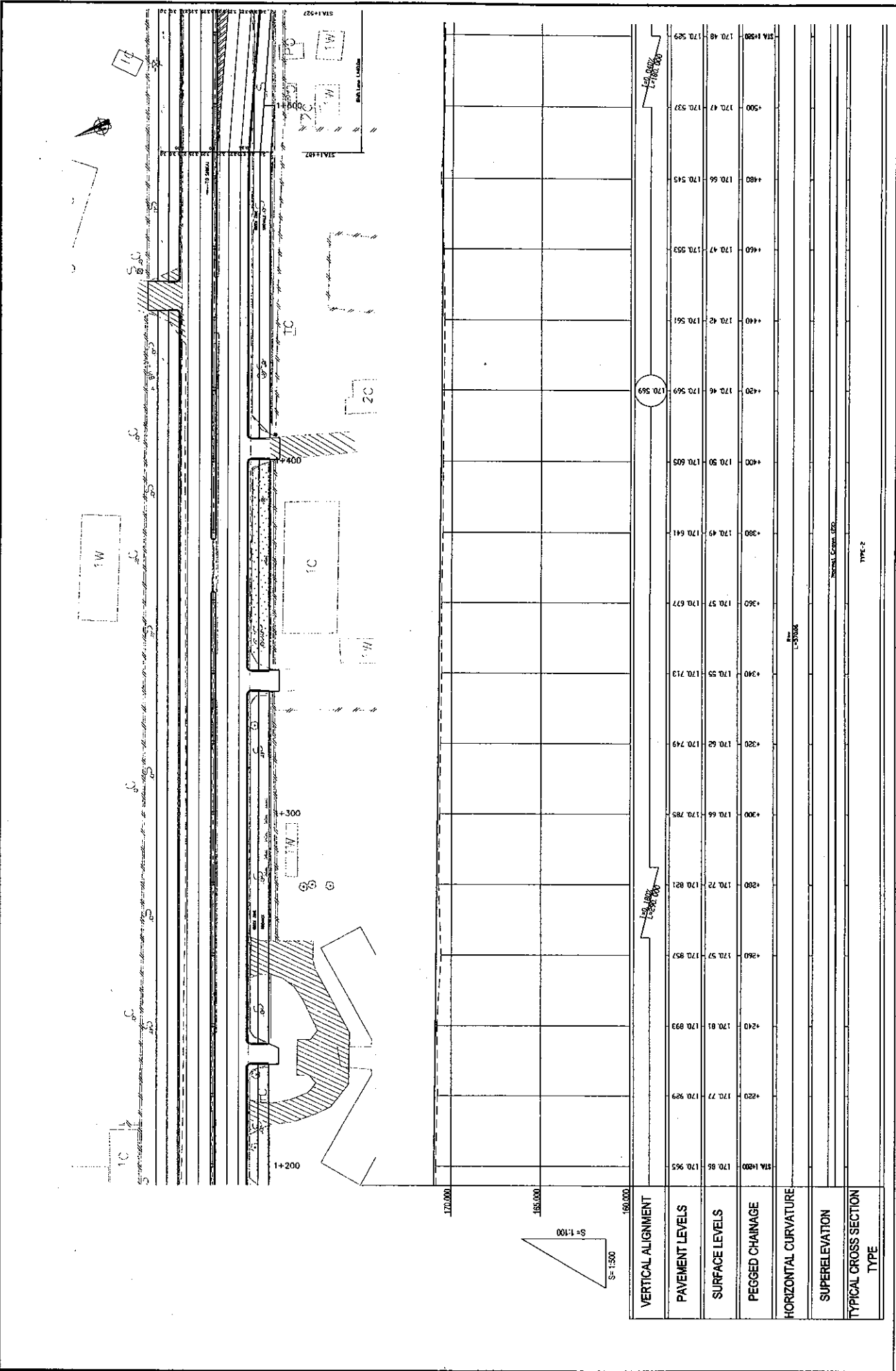
BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO. LTD

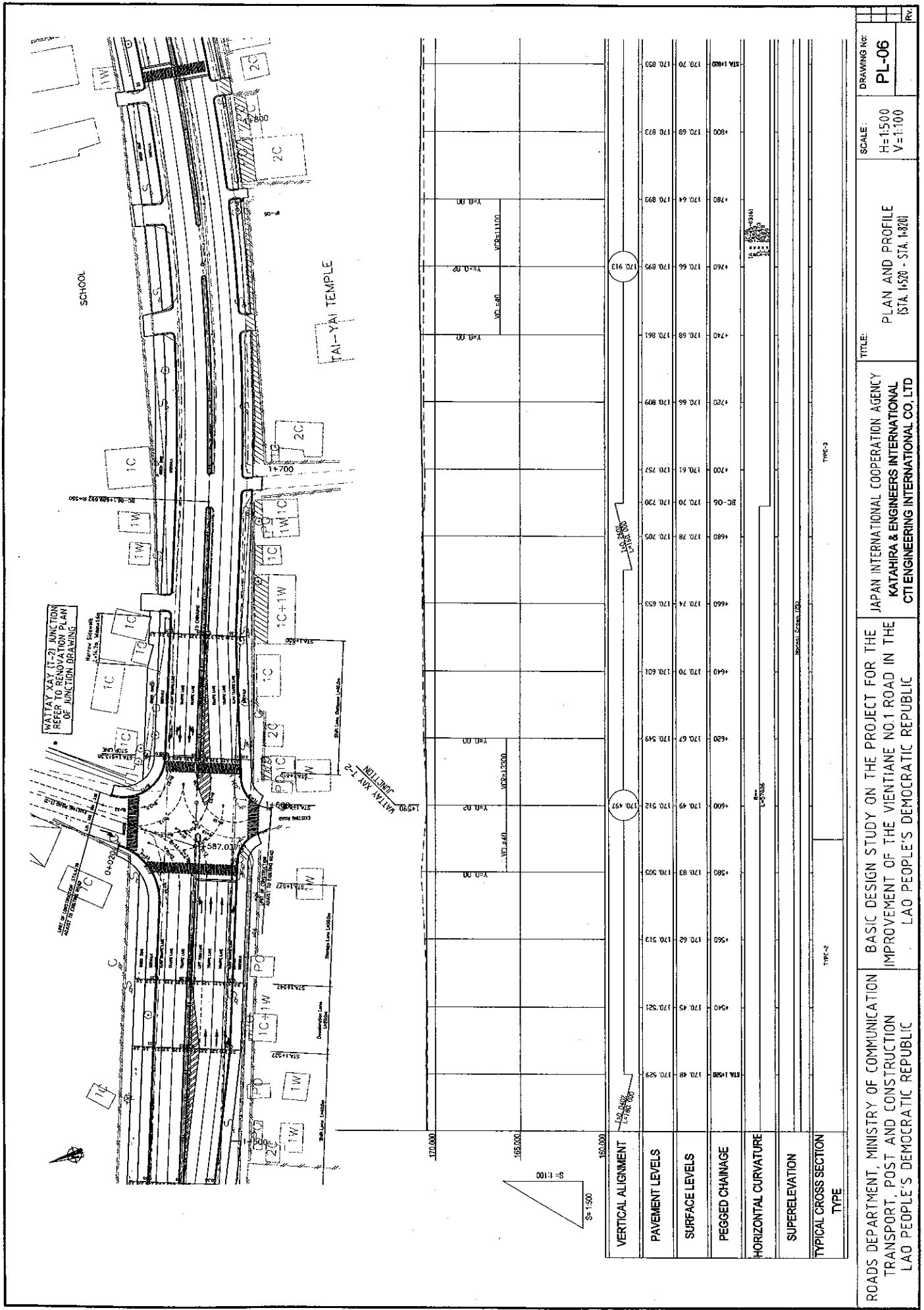
PLAN AND PROFILE
 (STA. 0+880 - STA. 1+200)

SCALE:
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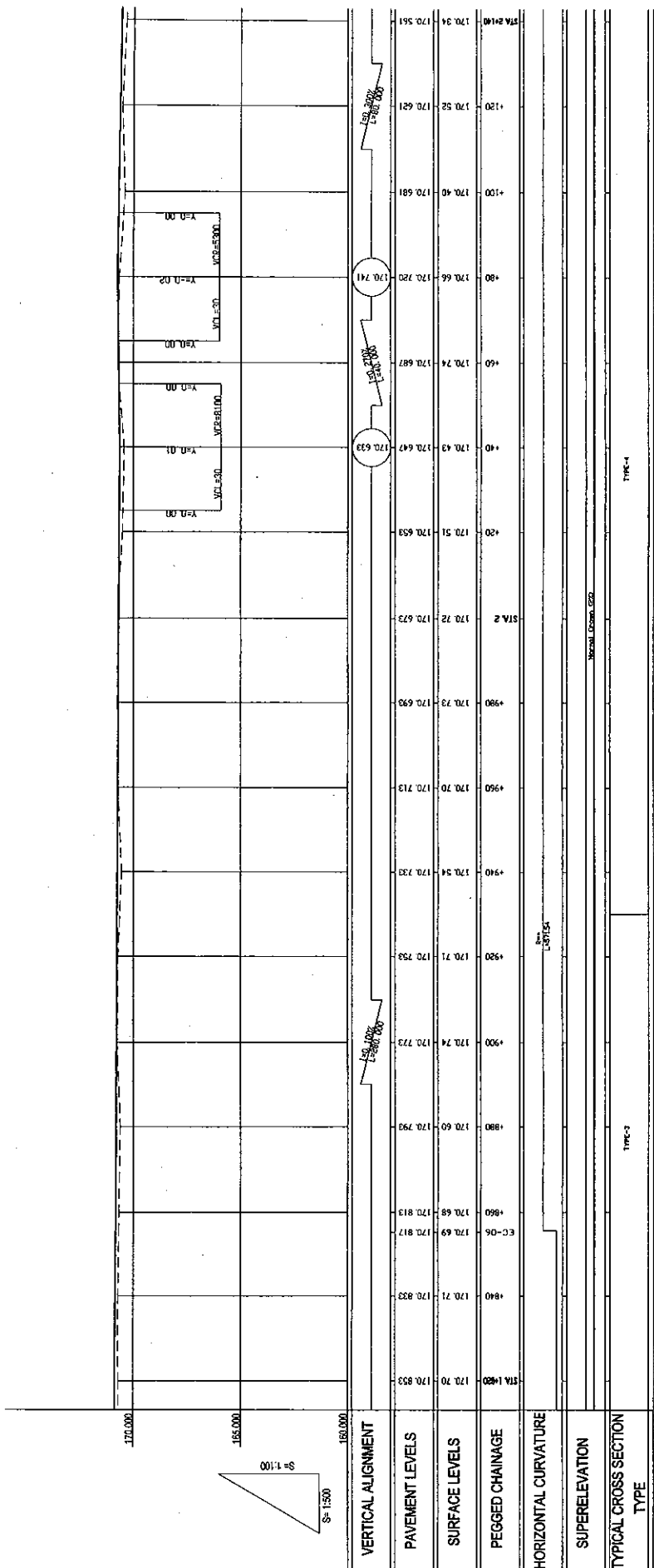
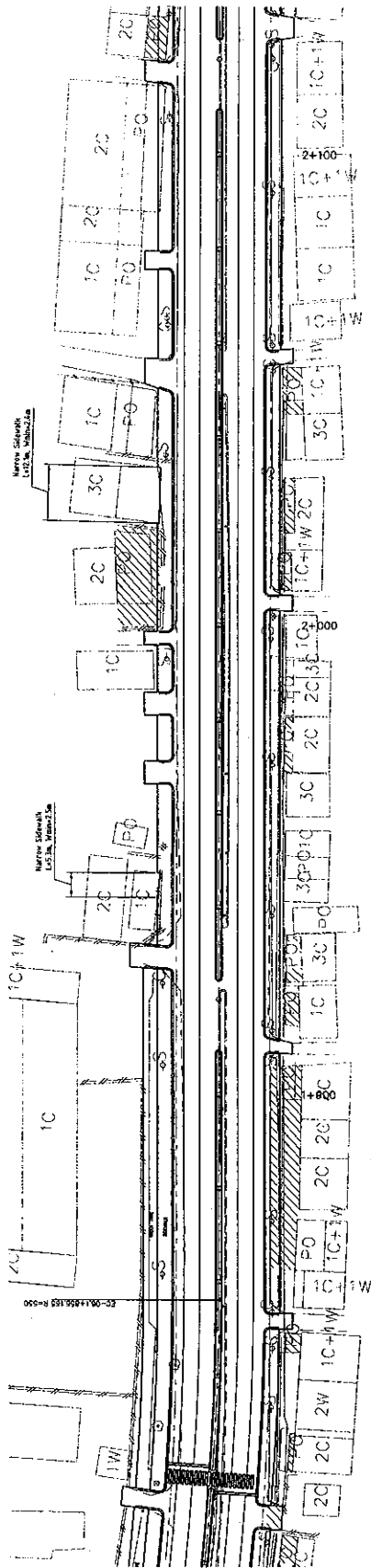
DRAWING NO.:
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ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO, LTD	TITLE PLAN AND PROFILE (STA. 14200 - STA. 14320)	SCALE : H=1:500 V=1:100	DRAWING NO: PL-05
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ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO, LTD	TITLE:	PLAN AND PROFILE (STA. 1520 - STA. 1420)	SCALE:	H=1:500 V=1:100	DRAWING NO:	PL-06	REV.
			TYPE-3						



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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO. LTD

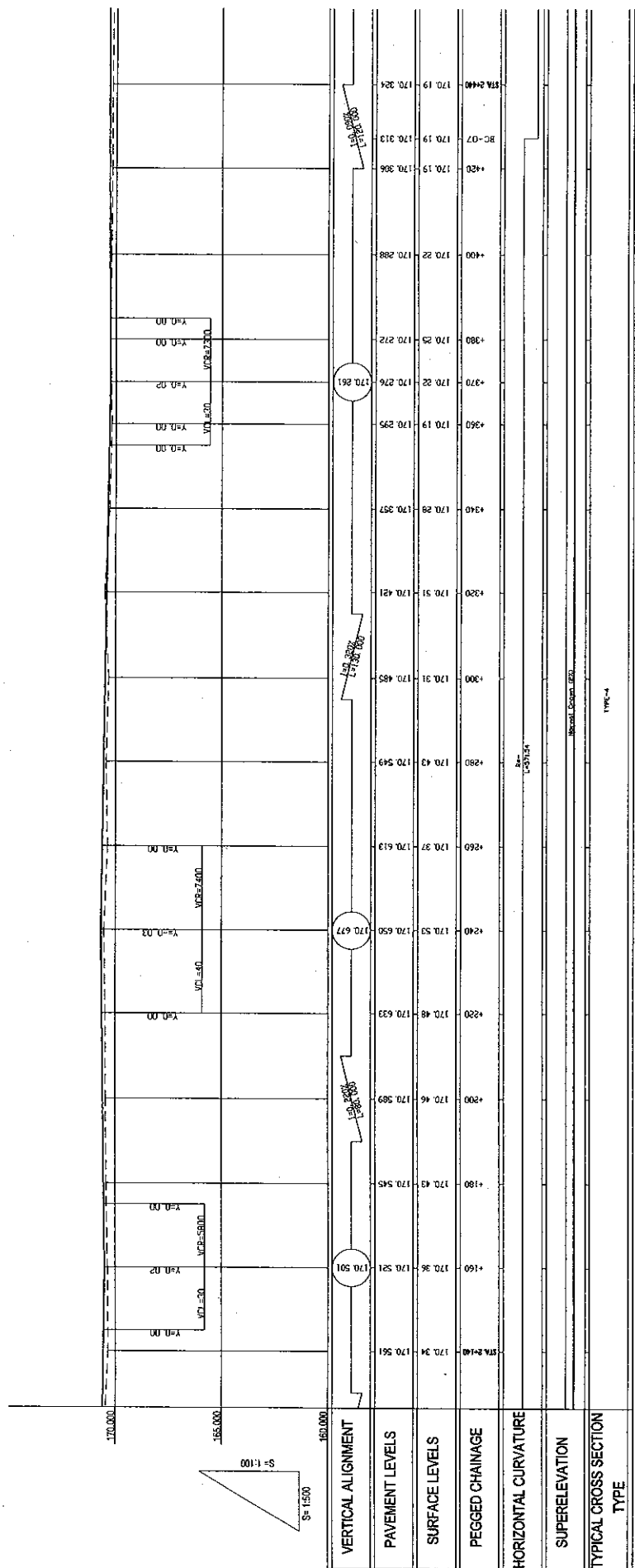
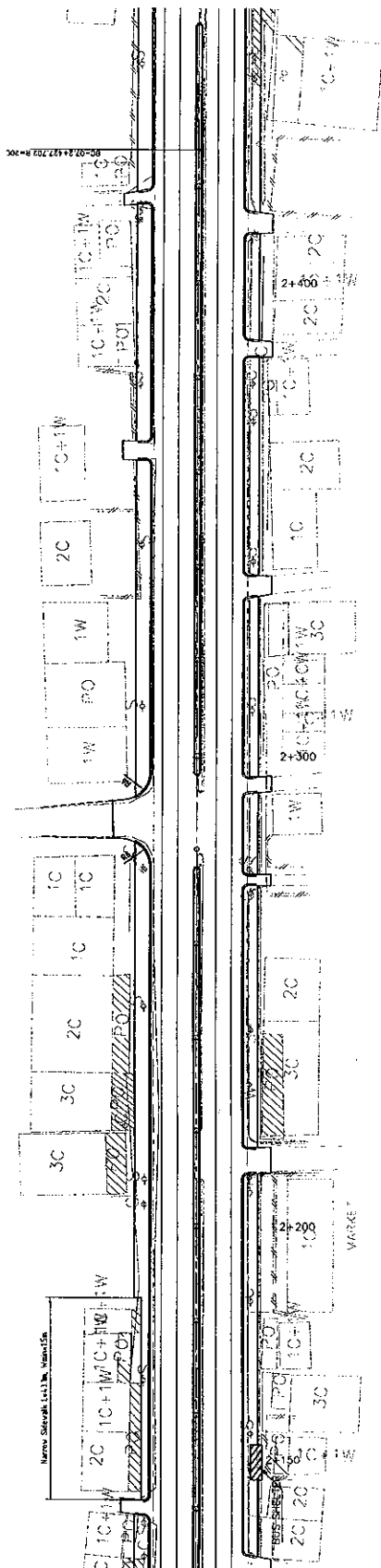
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PLAN AND PROFILE
 (STA. 1+800 - STA. 2+100)

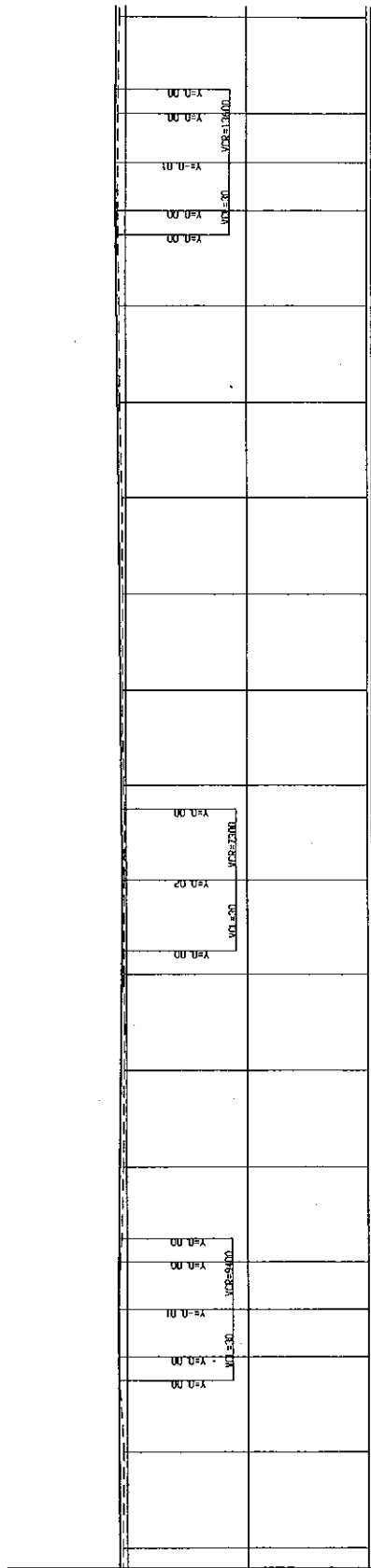
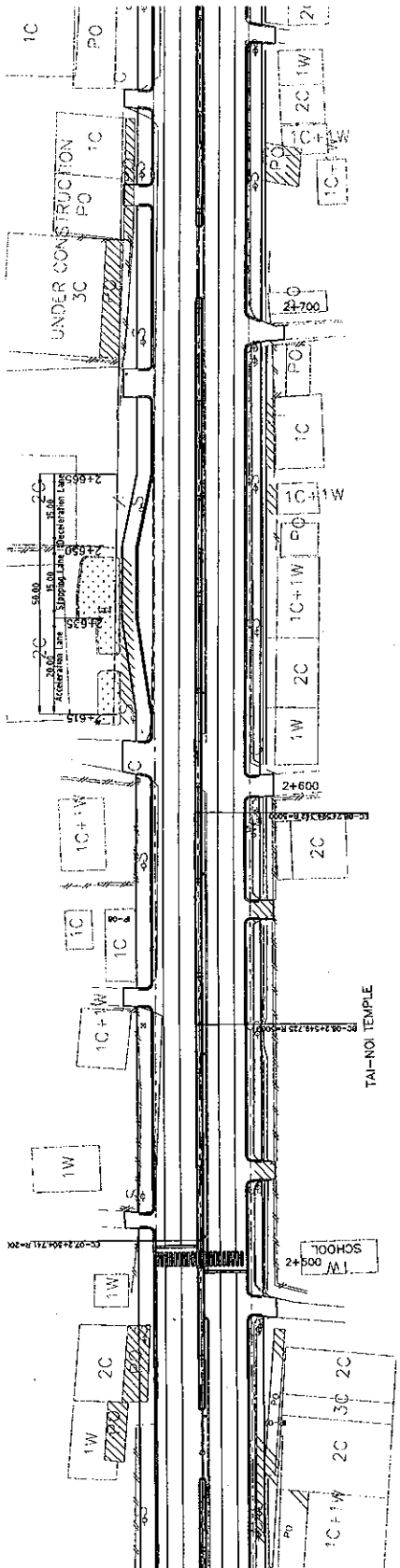
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DRAWING NO:
 PL-07

REV:



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	PLAN AND PROFILE (STA. 2+400 - STA. 2+600)	SCALE: H=1:500 V=1:100	DRAWING NO: PL-08	REV.
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VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.19	170.342	170.342	170.19			
170.28	170.359	170.359	170.28			
170.32	170.377	170.377	170.32			
170.36	170.395	170.395	170.36			
170.40	170.413	170.413	170.40			
170.44	170.431	170.431	170.44			
170.48	170.449	170.449	170.48			
170.52	170.467	170.467	170.52			
170.56	170.485	170.485	170.56			
170.60	170.503	170.503	170.60			
170.64	170.521	170.521	170.64			
170.68	170.539	170.539	170.68			
170.72	170.557	170.557	170.72			
170.76	170.575	170.575	170.76			
170.80	170.593	170.593	170.80			
170.84	170.611	170.611	170.84			
170.88	170.629	170.629	170.88			
170.92	170.647	170.647	170.92			
170.96	170.665	170.665	170.96			
171.00	170.683	170.683	171.00			
171.04	170.701	170.701	171.04			
171.08	170.719	170.719	171.08			
171.12	170.737	170.737	171.12			
171.16	170.755	170.755	171.16			
171.20	170.773	170.773	171.20			
171.24	170.791	170.791	171.24			
171.28	170.809	170.809	171.28			
171.32	170.827	170.827	171.32			
171.36	170.845	170.845	171.36			
171.40	170.863	170.863	171.40			
171.44	170.881	170.881	171.44			
171.48	170.899	170.899	171.48			
171.52	170.917	170.917	171.52			
171.56	170.935	170.935	171.56			
171.60	170.953	170.953	171.60			
171.64	170.971	170.971	171.64			
171.68	170.989	170.989	171.68			
171.72	171.007	171.007	171.72			
171.76	171.025	171.025	171.76			
171.80	171.043	171.043	171.80			
171.84	171.061	171.061	171.84			
171.88	171.079	171.079	171.88			
171.92	171.097	171.097	171.92			
171.96	171.115	171.115	171.96			
172.00	171.133	171.133	172.00			
172.04	171.151	171.151	172.04			
172.08	171.169	171.169	172.08			
172.12	171.187	171.187	172.12			
172.16	171.205	171.205	172.16			
172.20	171.223	171.223	172.20			
172.24	171.241	171.241	172.24			
172.28	171.259	171.259	172.28			
172.32	171.277	171.277	172.32			
172.36	171.295	171.295	172.36			
172.40	171.313	171.313	172.40			
172.44	171.331	171.331	172.44			
172.48	171.349	171.349	172.48			
172.52	171.367	171.367	172.52			
172.56	171.385	171.385	172.56			
172.60	171.403	171.403	172.60			
172.64	171.421	171.421	172.64			
172.68	171.439	171.439	172.68			
172.72	171.457	171.457	172.72			
172.76	171.475	171.475	172.76			
172.80	171.493	171.493	172.80			

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

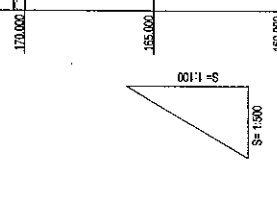
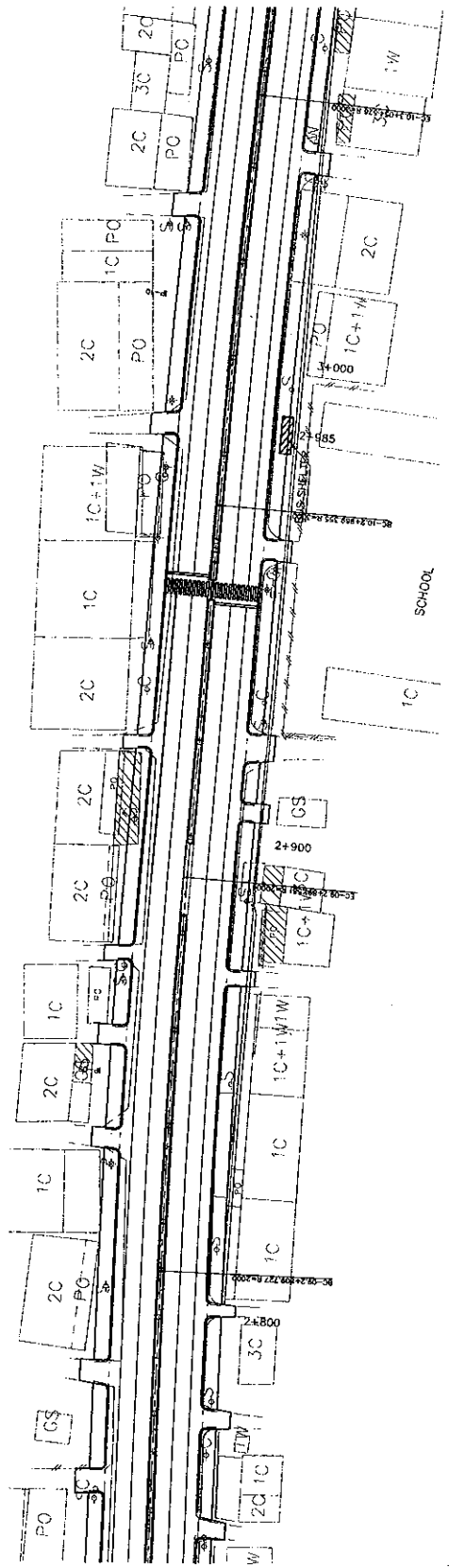
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD

PLAN AND PROFILE (STA. 2+440 - STA. 2+760)

SCALE: H=1:500 V=1:100

DRAWING NO: PL-09

REV: []



VERTICAL ALIGNMENT	STATION	ELEVATION
PAVEMENT LEVELS	STA 2+950	170.28
	STA 3+000	170.28
SURFACE LEVELS	170.28	170.412
	170.28	170.420
PEGGED CHAINAGE	170.28	170.404
	170.28	170.400
HORIZONTAL CURVATURE	170.28	170.396
	170.28	170.388
SUPERELEVATION	170.28	170.380
	170.28	170.372
TYPICAL CROSS SECTION TYPE	170.28	170.367
	170.28	170.354
HORIZONTAL CURVATURE	170.28	170.356
	170.28	170.348
SUPERELEVATION	170.28	170.340
	170.28	170.336
HORIZONTAL CURVATURE	170.28	170.332
	170.28	170.324
SUPERELEVATION	170.28	170.316
	170.28	170.308
HORIZONTAL CURVATURE	170.28	170.302
	170.28	170.300

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

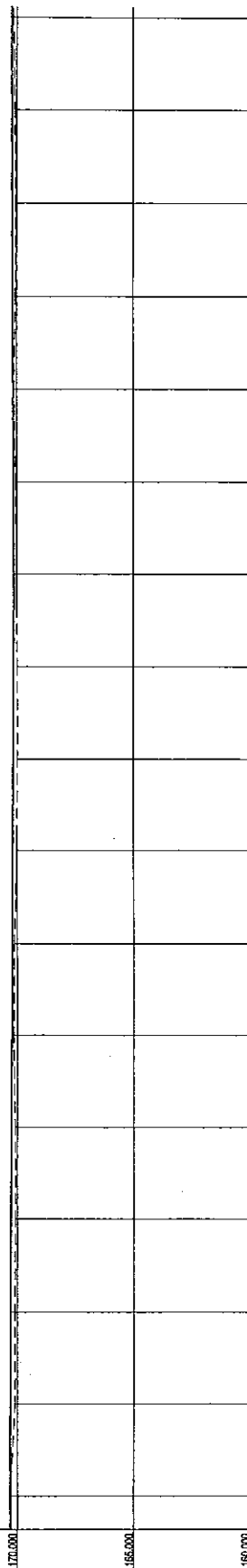
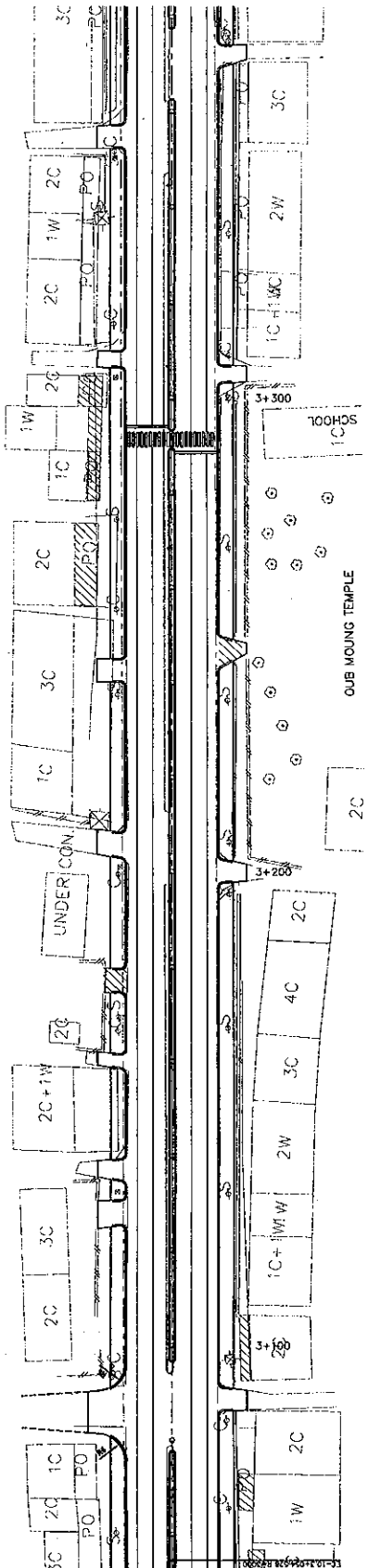
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE (STA. 2+760 - STA. 3+060)

SCALE: H=1:500 V=1:100

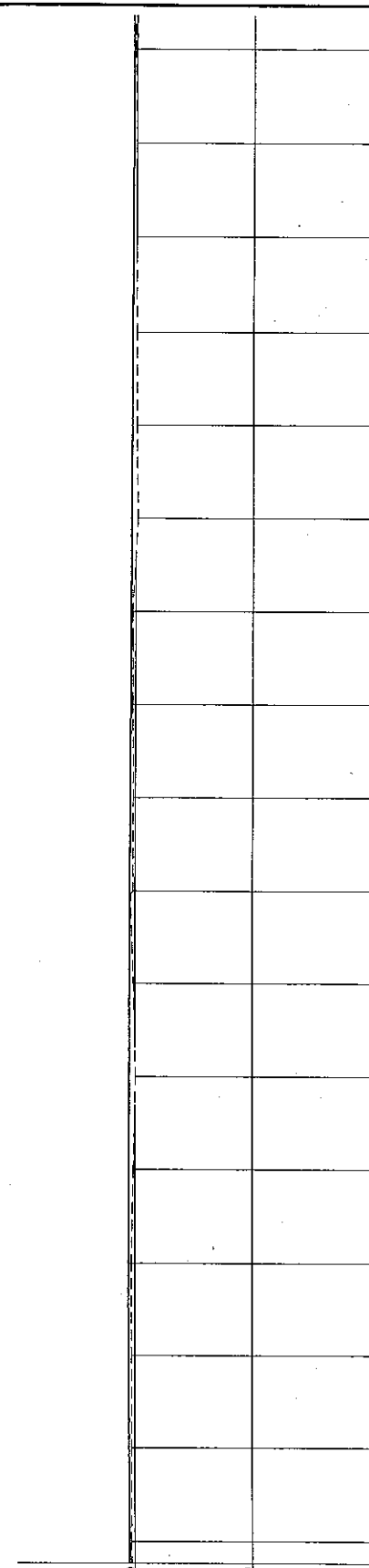
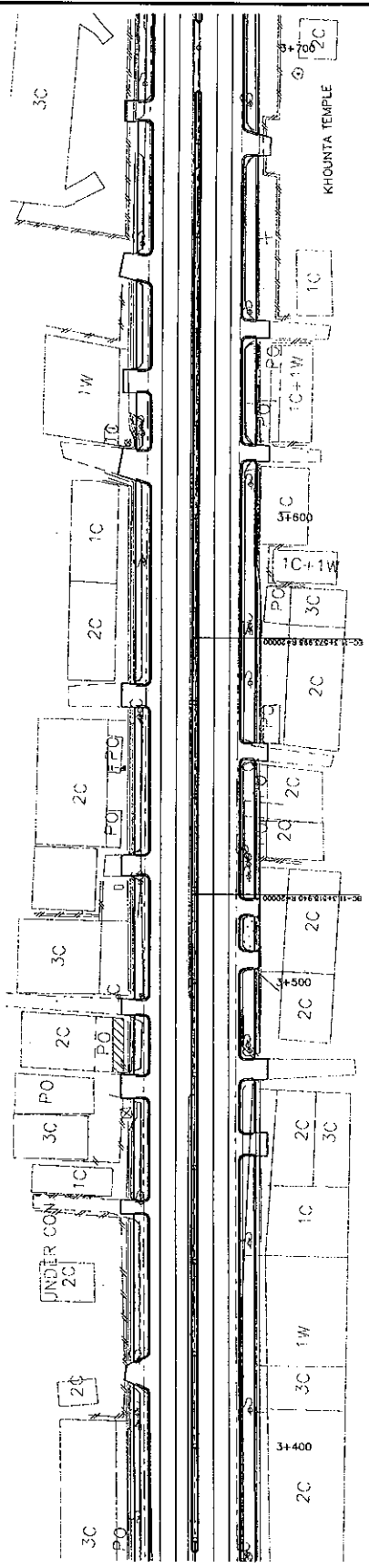
DRAWING NO: PL-10

RV



VERTICAL ALIGNMENT	170.250	170.240	170.230	170.224	170.214	170.204	170.194	170.184	170.174	170.164	170.154	170.144	170.134	170.124	170.114	170.104	170.094	170.084	170.074	170.064	170.054	170.044	170.034	170.024	170.014	170.004	170.000
PAVEMENT LEVELS	170.250	170.240	170.230	170.224	170.214	170.204	170.194	170.184	170.174	170.164	170.154	170.144	170.134	170.124	170.114	170.104	170.094	170.084	170.074	170.064	170.054	170.044	170.034	170.024	170.014	170.004	170.000
SURFACE LEVELS	170.250	170.240	170.230	170.224	170.214	170.204	170.194	170.184	170.174	170.164	170.154	170.144	170.134	170.124	170.114	170.104	170.094	170.084	170.074	170.064	170.054	170.044	170.034	170.024	170.014	170.004	170.000
PEGGED CHAINAGE	170.250	170.240	170.230	170.224	170.214	170.204	170.194	170.184	170.174	170.164	170.154	170.144	170.134	170.124	170.114	170.104	170.094	170.084	170.074	170.064	170.054	170.044	170.034	170.024	170.014	170.004	170.000
HORIZONTAL CURVATURE																											
SUPERELEVATION																											
TYPICAL CROSS SECTION TYPE																											

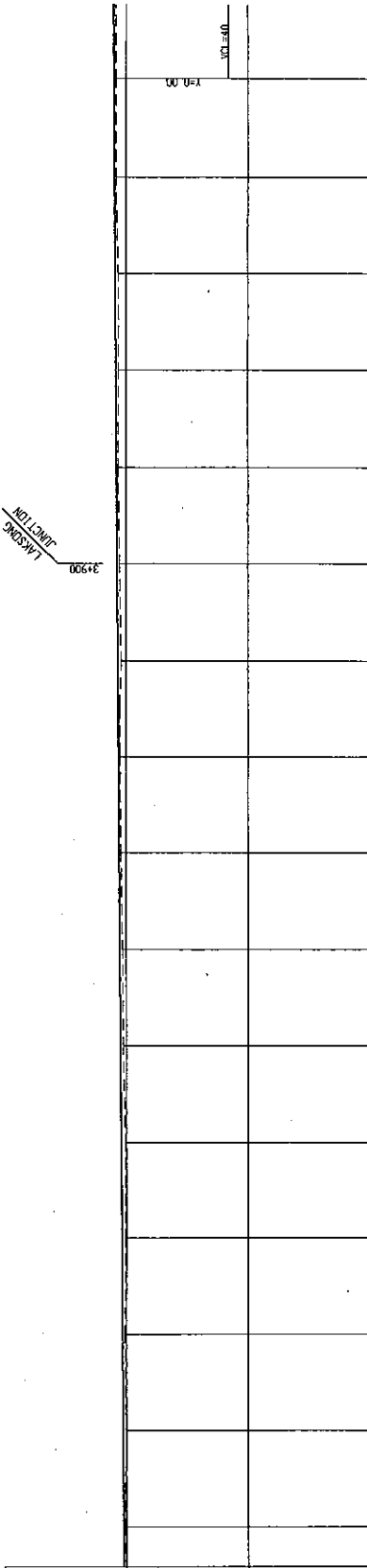
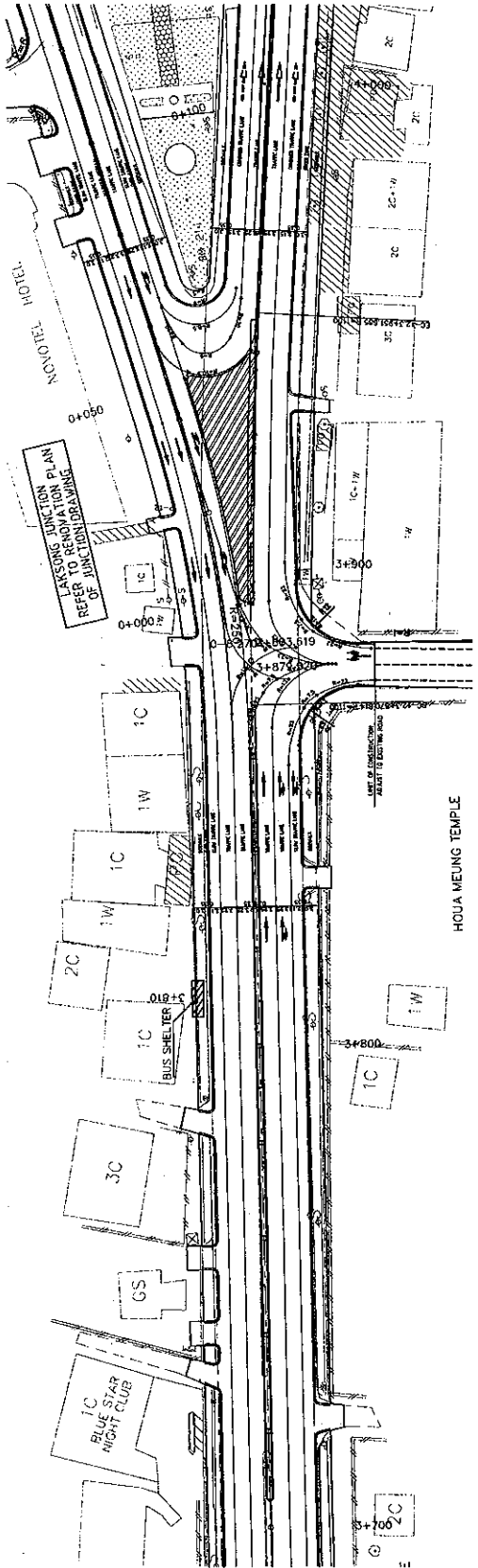
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTEENGINEERING INTERNATIONAL CO. LTD
TITLE:		PLAN AND PROFILE (STA. 3+460 - STA. 3+300)
SCALE:		H=1:500 V=1:100
DRAWING NO:		PL-11
Rv:		



VERTICAL ALIGNMENT	170.000	155.000	160.000
PAYEMENT LEVELS			
SURFACE LEVELS			
PEGGED CHAINAGE			
HORIZONTAL CURVATURE			
SUPERELEVATION			
TYPICAL CROSS SECTION TYPE			

STA 3+380	170.14	170.220	170.13	170.236	170.13	170.236	170.13	170.236	170.07	170.256	170.07	170.256	169.97	170.244	170.06	170.232	170.09	170.208	170.12	170.196	170.13	170.188	170.13	170.184	169.97	170.148	169.96	170.160	170.01	170.196	170.01	170.124	170.05	170.112	170.112	
EC-11																																				

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	PLAN AND PROFILE (STA. 3+380 - STA. 3+700)
			SCALE:	H=1:500 V=1:100
			DRAWING No:	PL-12



VERTICAL ALIGNMENT	170+00	170+10	170+20	170+30	170+40	170+50
PAVEMENT LEVELS	170.03	170.07	170.16	170.28	170.39	170.43
SURFACE LEVELS	170.03	170.07	170.16	170.28	170.39	170.43
PEGGED CHAINAGE	170.03	170.07	170.16	170.28	170.39	170.43
HORIZONTAL CURVATURE						
SUPERELEVATION						
TYPICAL CROSS SECTION TYPE	TYPE-3					

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

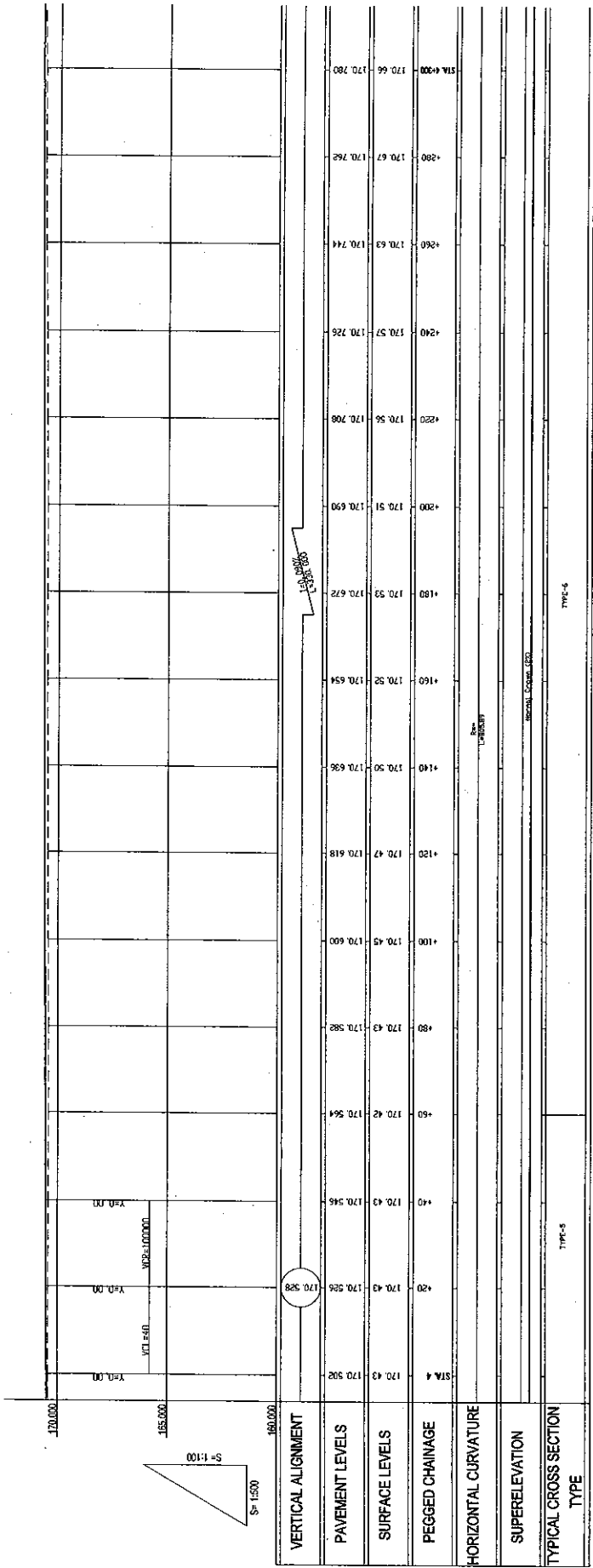
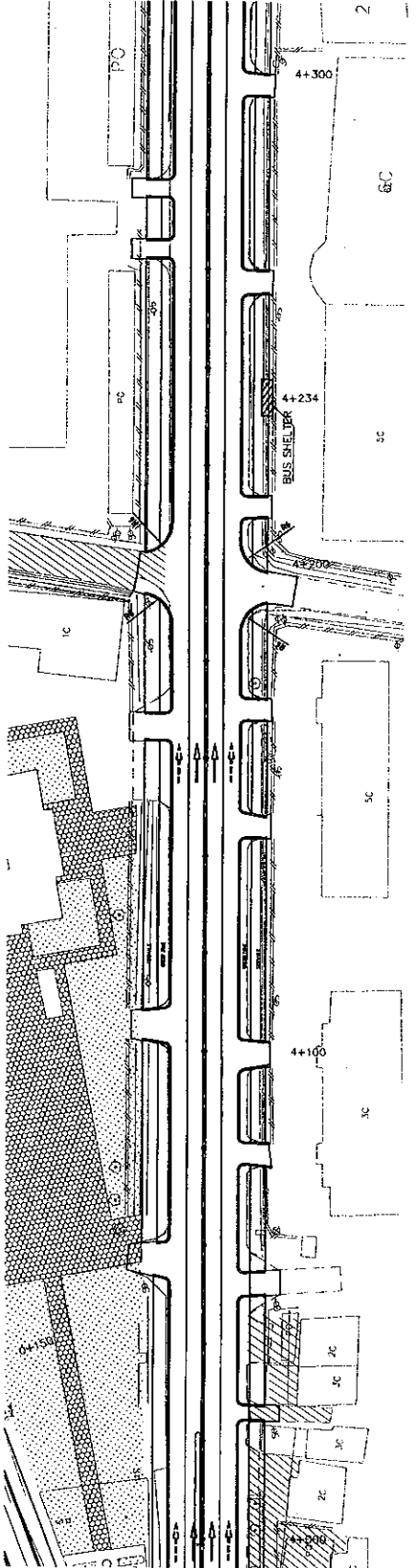
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE (STA. 3+700 - STA. 4+000)

SCALE: H=1:500 V=1:100

DRAWING NO: PL-13

REV: []



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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CII ENGINEERING INTERNATIONAL CO. LTD

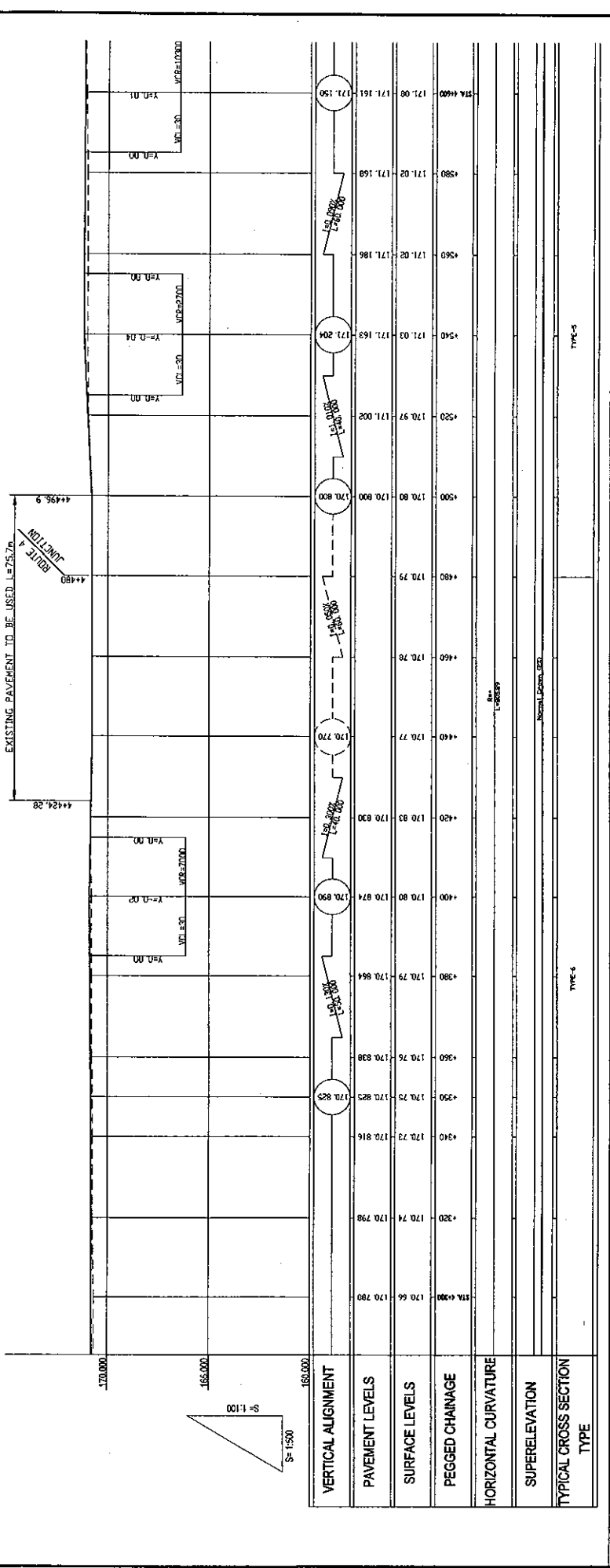
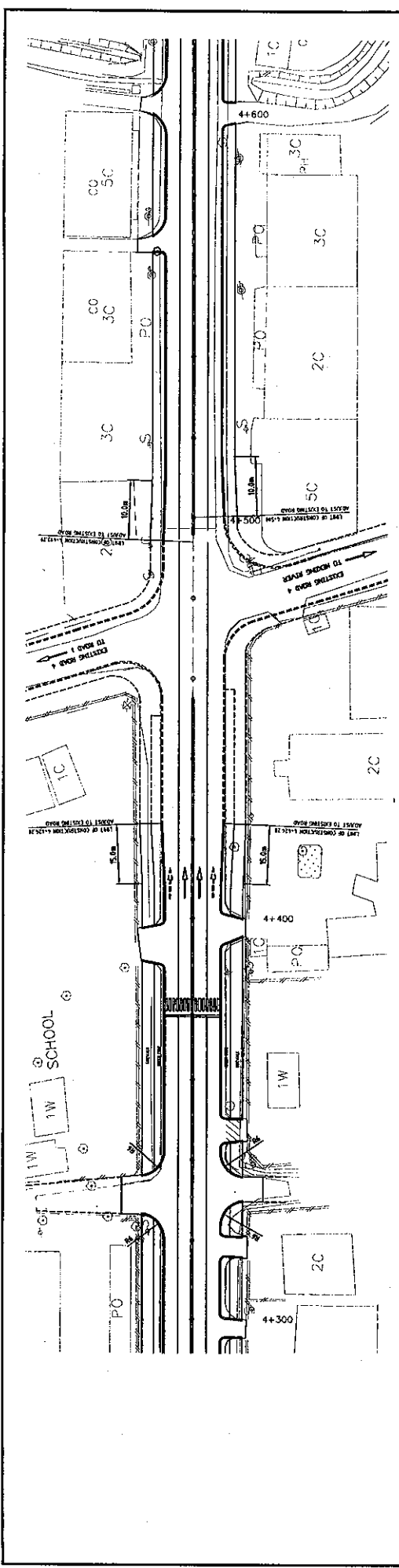
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PLAN AND PROFILE
 (STA. 4+000 - STA. 4+300)

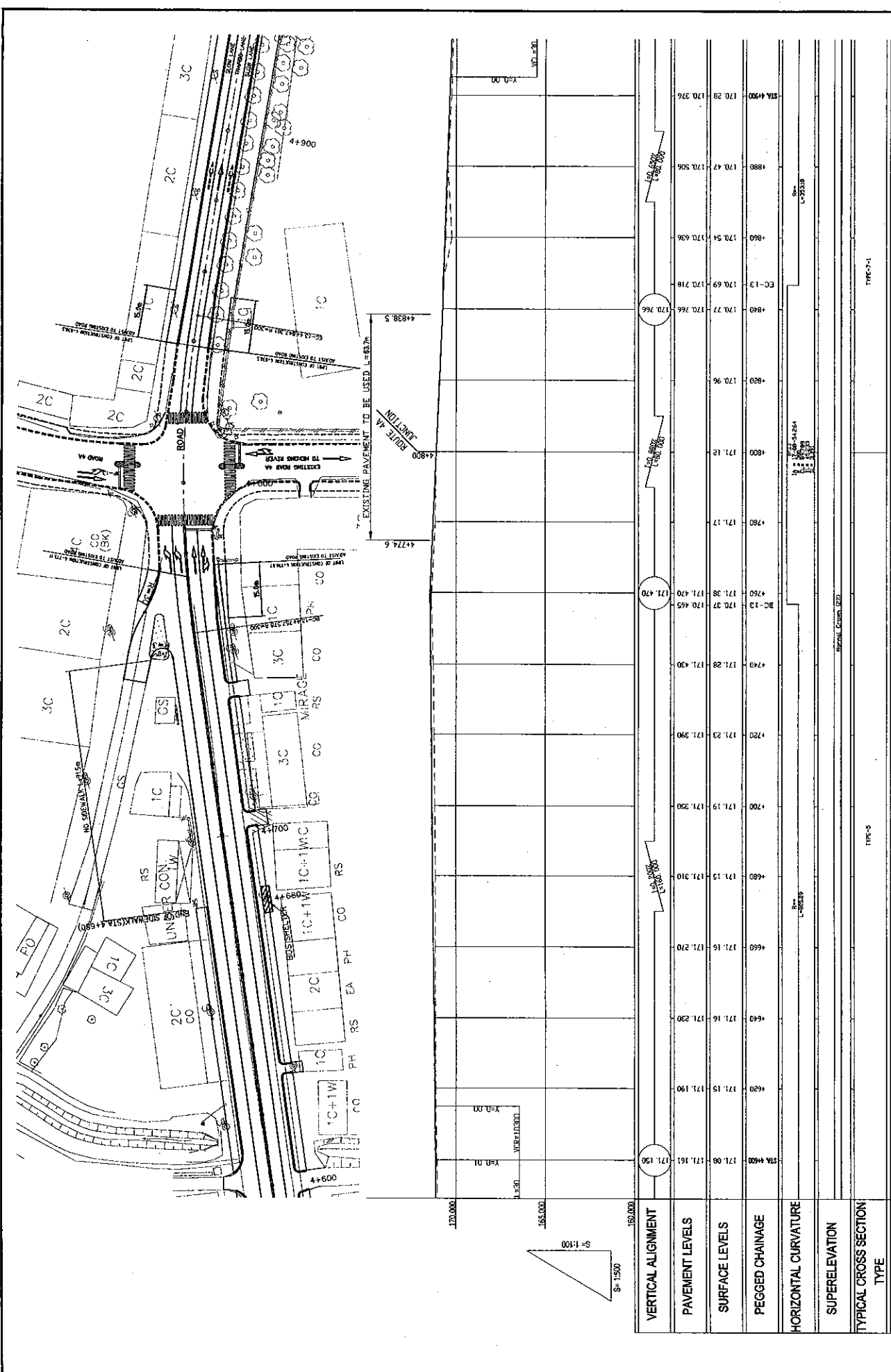
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DRAWING No:
PL-14

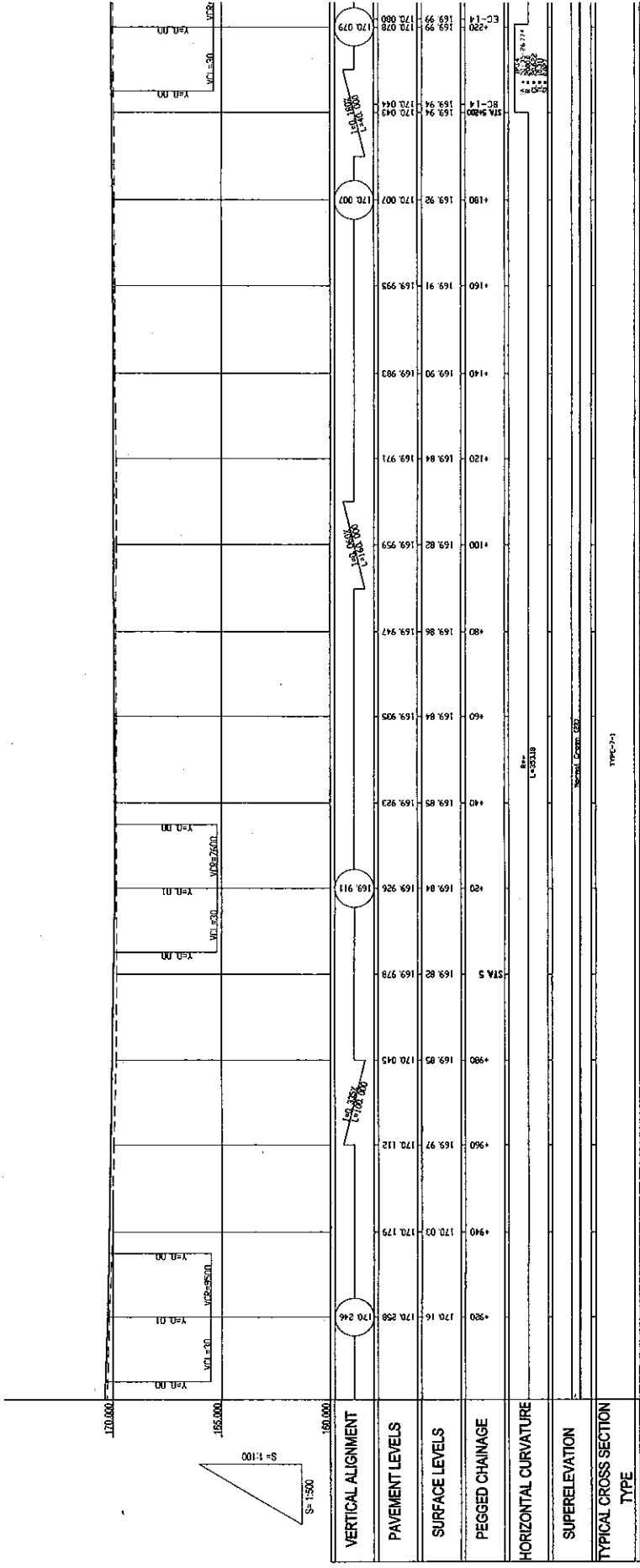
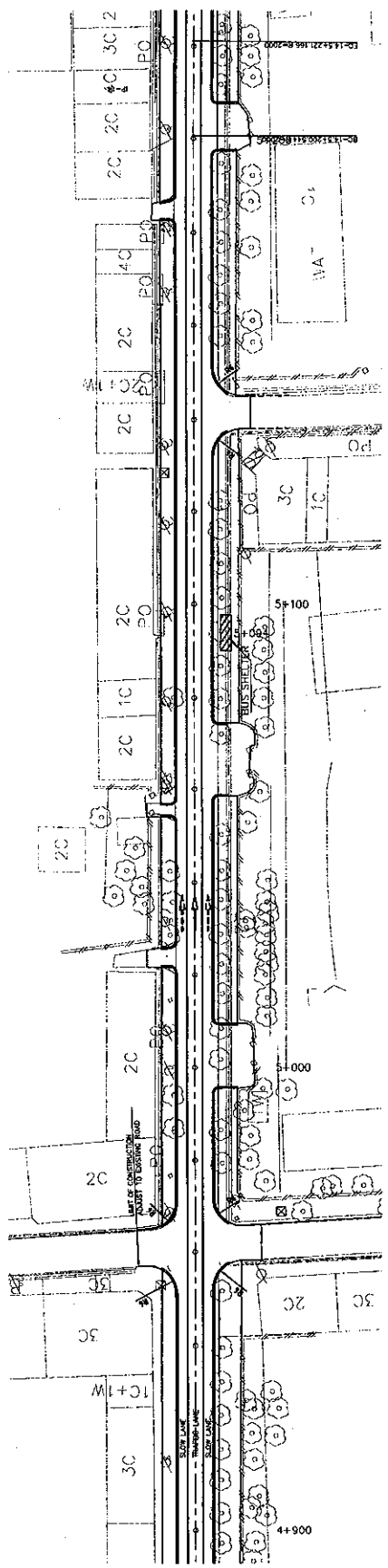
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ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO, LTD	TITLE	SCALE:	DRAWING NO:
			PLAN AND PROFILE (STA. 4+300 - STA. 4+600)	H=1:500 V=1:100	PL-15
				REV.	



DRAWING No. PL-16		SCALE: H=1:500 V=1:100	
TITLE: PLAN AND PROFILE (STA. 4+600 - STA. 4+900)		JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC		BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	
TYPICAL CROSS SECTION TYPE		TYPE-3	
VERTICAL ALIGNMENT		TYPE-5	
PAVEMENT LEVELS		TYPE-6	
SURFACE LEVELS		TYPE-7	
PEGGED CHAINAGE		TYPE-8	
HORIZONTAL CURVATURE		TYPE-9	
SUPERELEVATION		TYPE-10	
TYPICAL CROSS SECTION TYPE		TYPE-11	



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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CITI ENGINEERING INTERNATIONAL CO. LTD

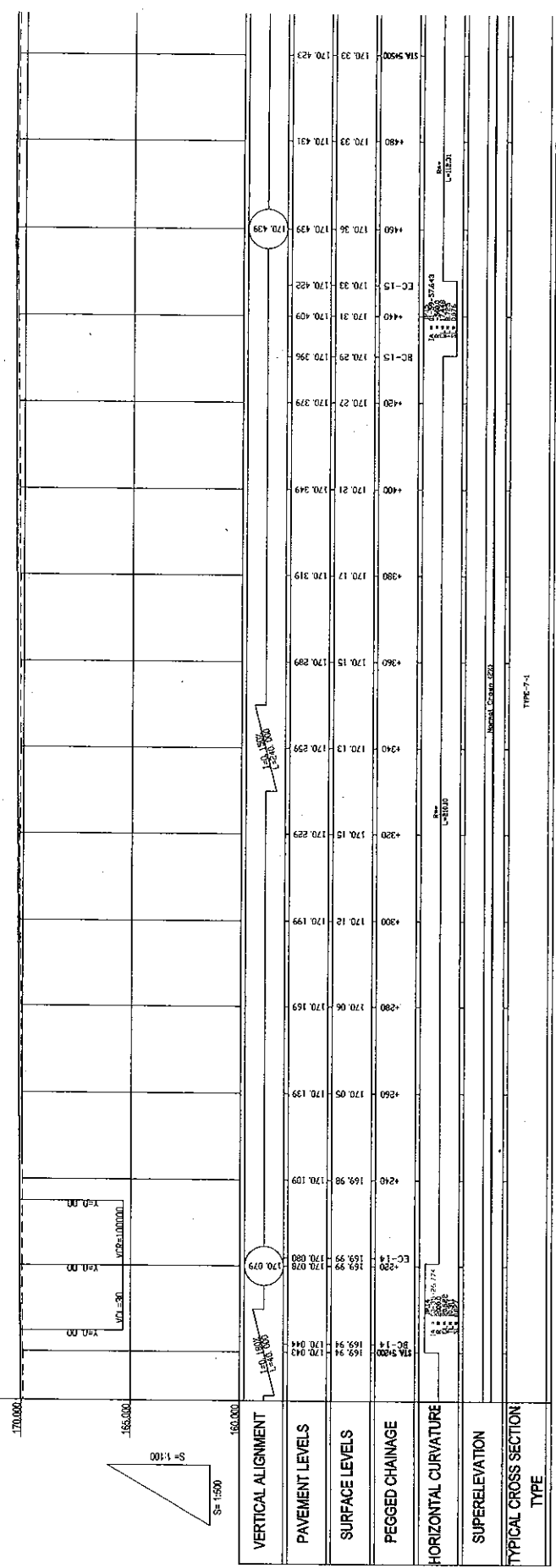
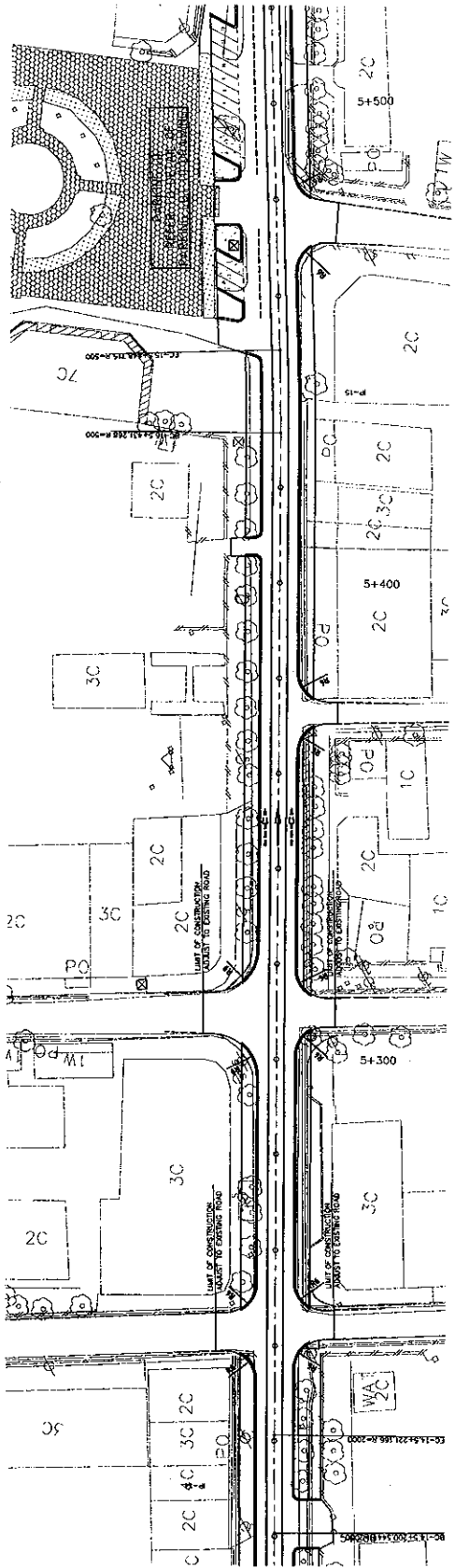
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PLAN AND PROFILE
 (STA. 4+900 - STA. 5+200)

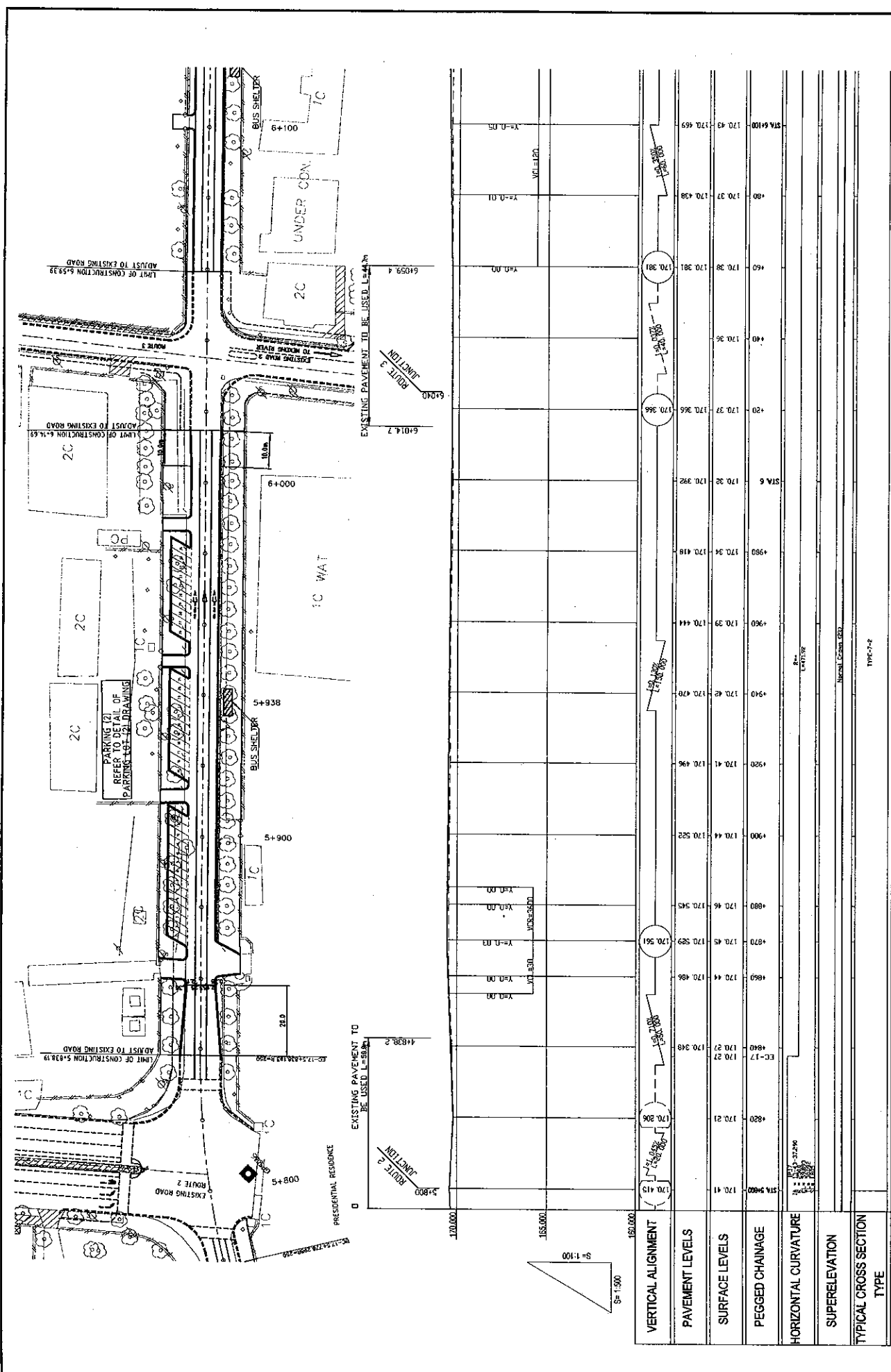
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DRAWING NO:
PL-17

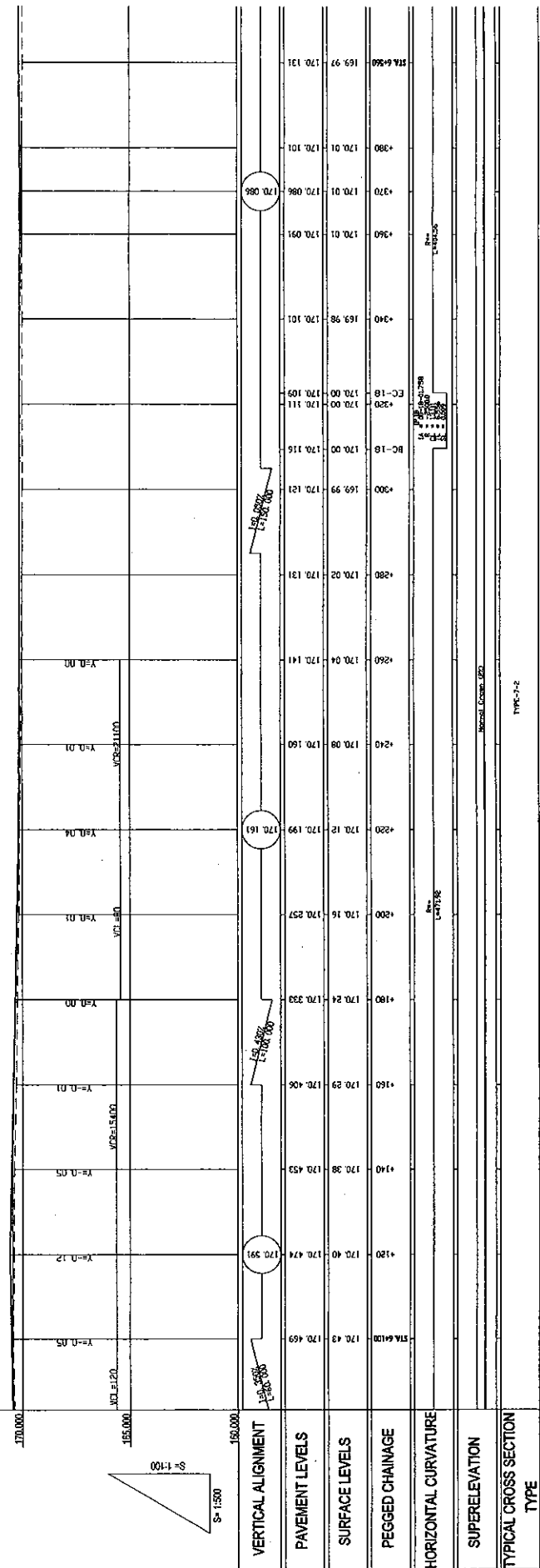
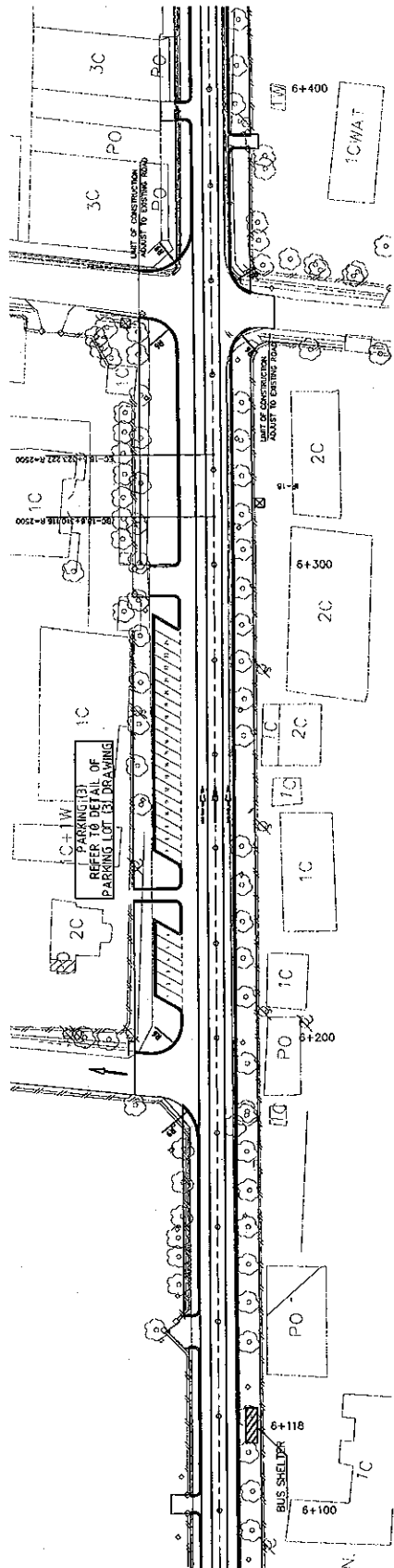
REV:



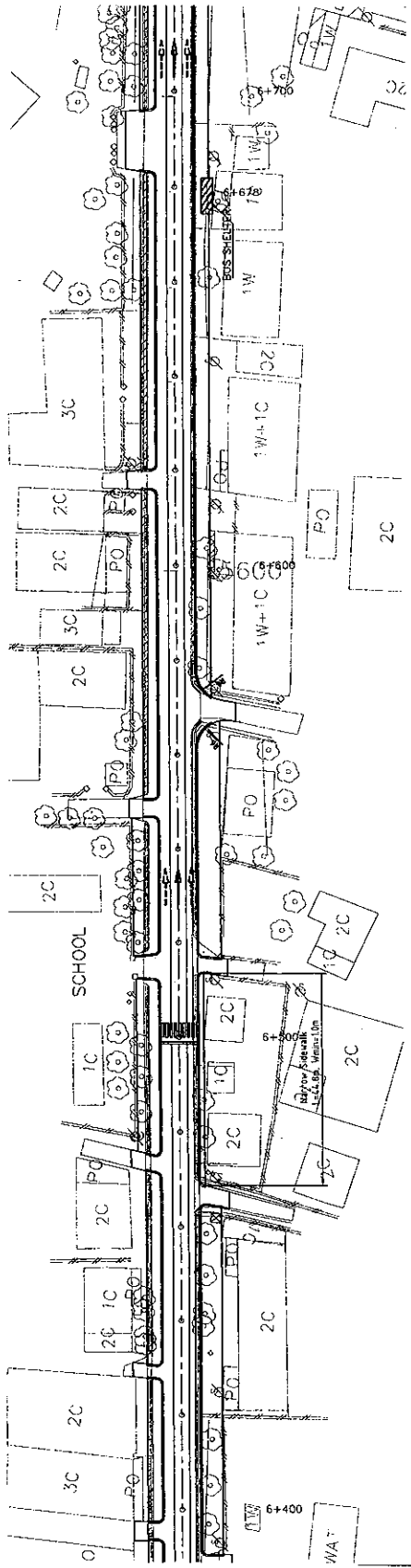
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC		BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC		JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD		TITLE:		PLAN AND PROFILE (STA. 5+200 - STA. 5+500)		SCALE: H=1:500 V=1:100		DRAWING No: PL-18		Rv.	
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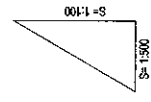
DRAWING No:	PL-20	SCALE:	H=1:500 V=1:100
	REV:		
TITLE:	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD		
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC		BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	PLAN AND PROFILE (STA. 6+100 - STA. 6+400)	DRAWING NO: PL-21	SCALE: H=1:500 V=1:100	REV.
			TYPE:	TYPE-C-2			



VERTICAL ALIGNMENT	170.000	170.010	170.020	170.030	170.040	170.050	170.060	170.070	170.080	170.090	170.100	170.110	170.120	170.130	170.140	170.150	170.160	170.170	170.180	170.190	170.200	170.210	170.220	170.230	170.240	170.250	170.260	170.270	170.280	170.290	170.300	
PAVEMENT LEVELS																																
SURFACE LEVELS																																
PEGGED CHAINAGE																																
HORIZONTAL CURVATURE																																
SUPERELEVATION																																
TYPICAL CROSS SECTION TYPE																																



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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

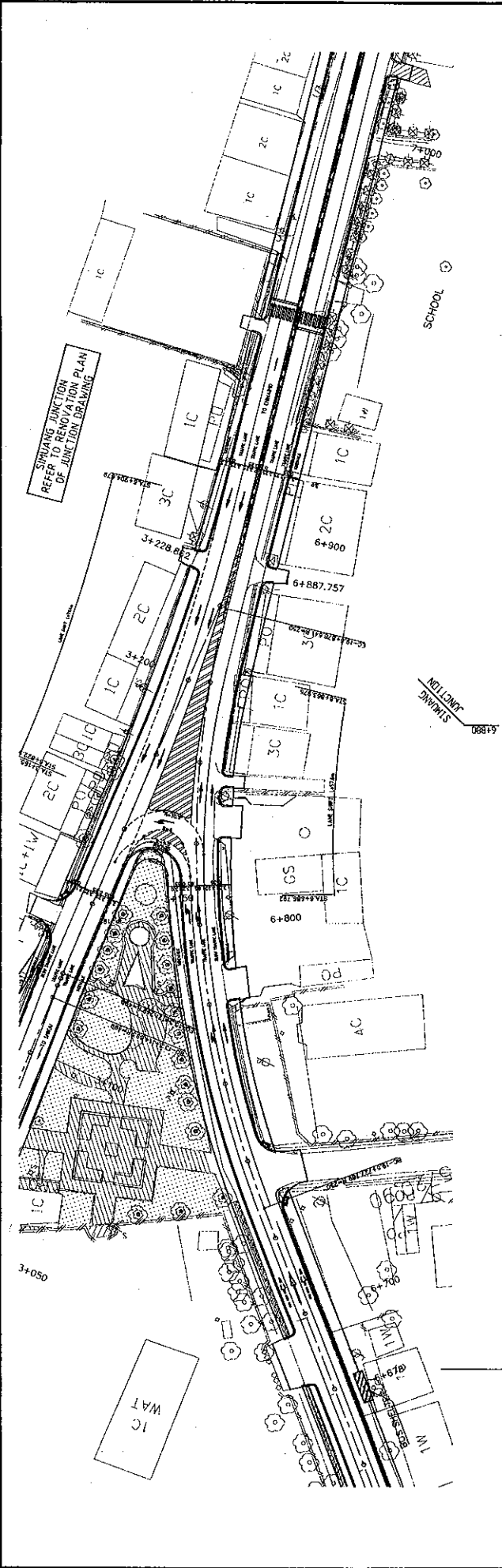
JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE: PLAN AND PROFILE
 (STA. 6+400 - STA. 6+700)

SCALE: H=1:500
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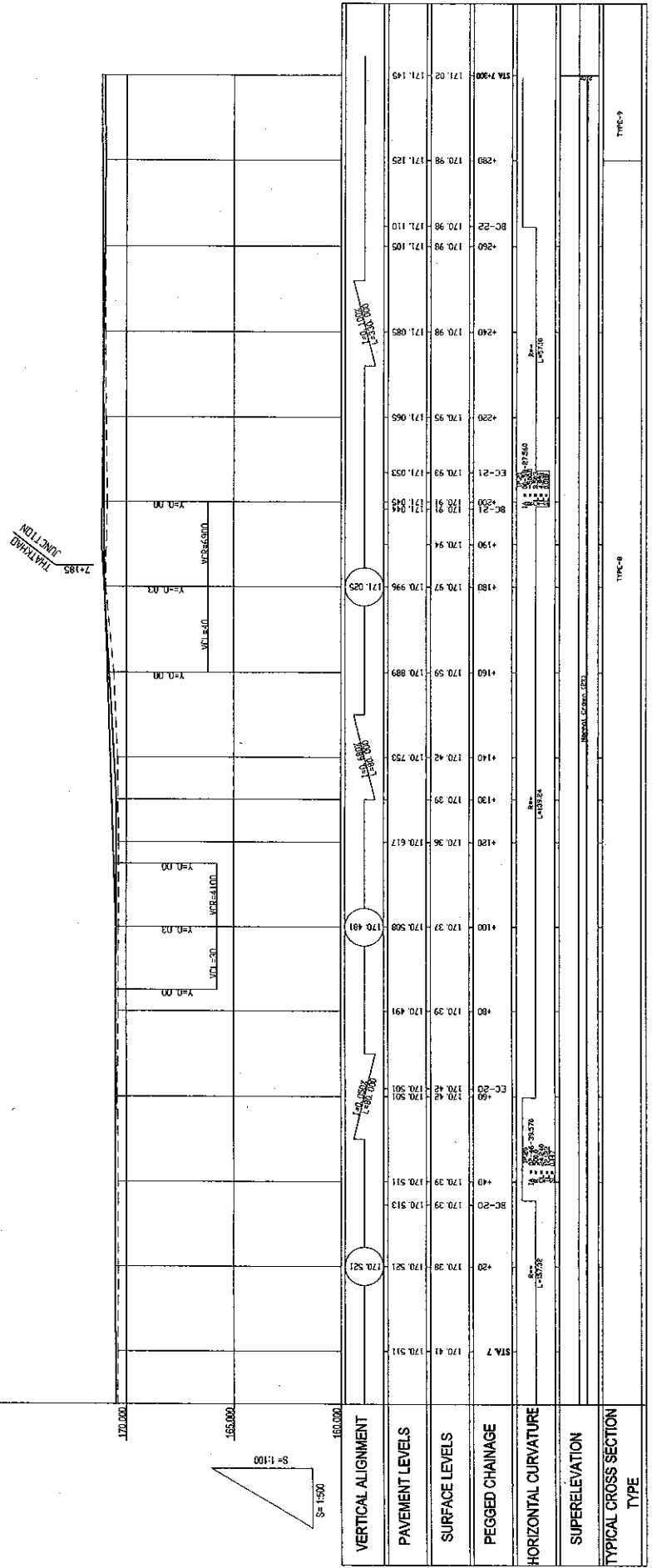
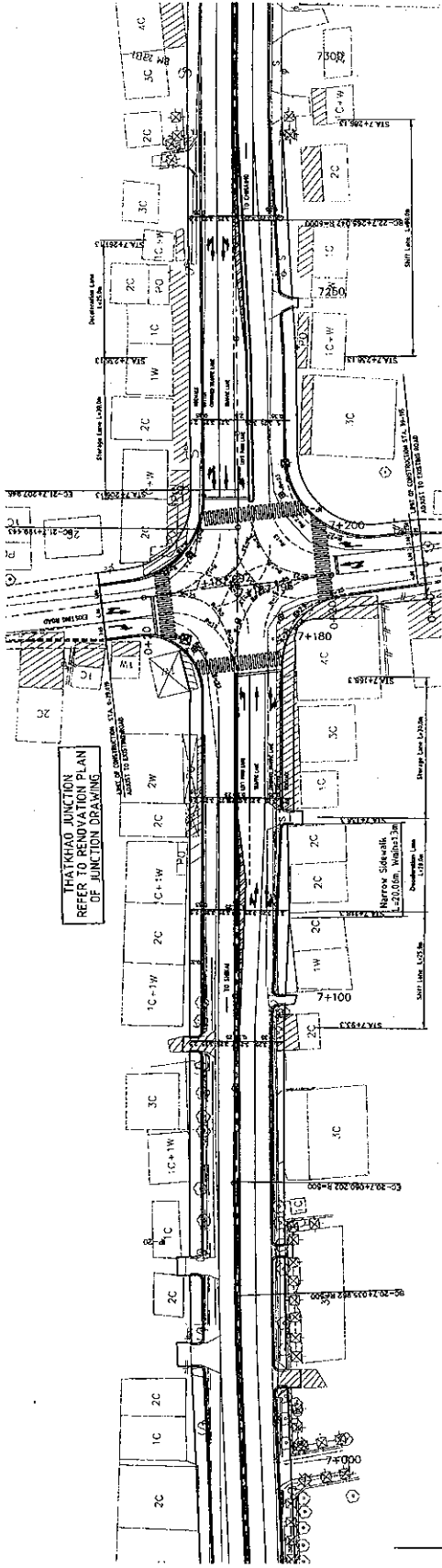
DRAWING NO: PL-22

Rev

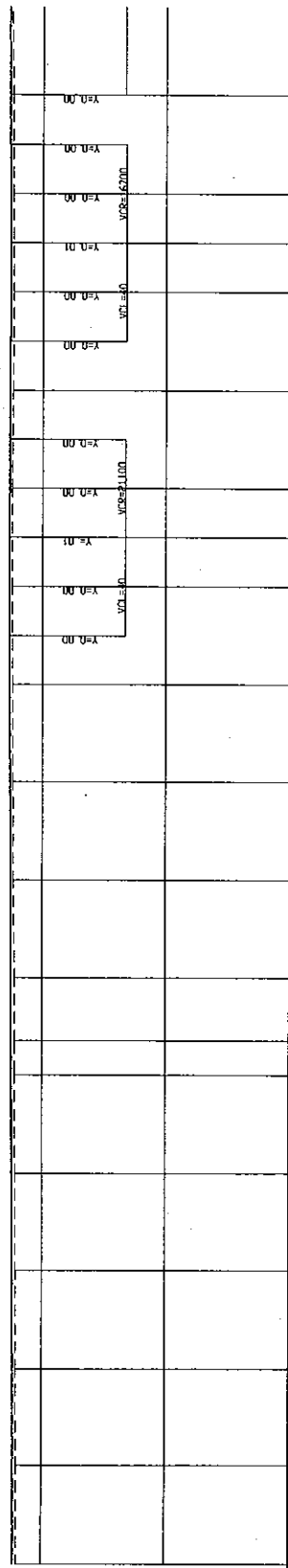
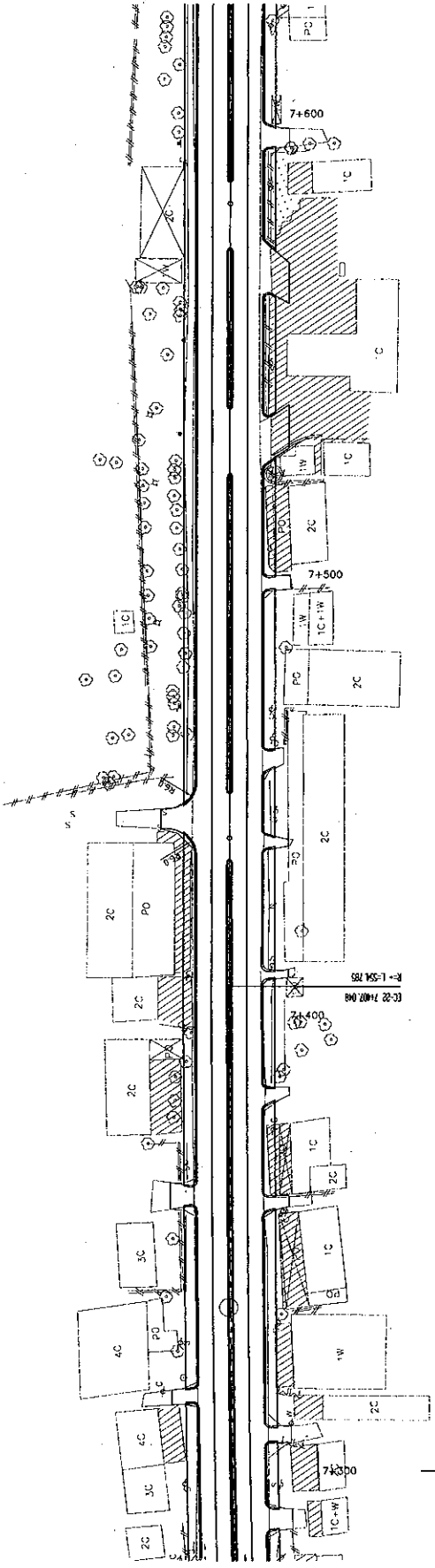


TYPE	TYPE-2-E	TYPE-8
VERTICAL ALIGNMENT	170.163	170.147
PAVEMENT LEVELS	170.152	170.147
SURFACE LEVELS	170.155	170.152
PEGGED CHAINAGE	170.158	170.147
HORIZONTAL CURVATURE	170.152	170.147
SUPERELEVATION	170.152	170.147
TYPICAL CROSS SECTION	170.152	170.147

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS/INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO, LTD	TITLE:	PLAN AND PROFILE (STA. 6+700 - STA. 7+000)	SCALE: H=1:500 V=1:100	DRAWING NO: PL-23
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DRAWING No:	PL-24	SCALE: H=1:500 V=1:100	TITLE: PLAN AND PROFILE (STA 7+000 - STA 7+300)	REV.
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC		JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD		
BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC				
VERTICAL ALIGNMENT				
PAVEMENT LEVELS				
SURFACE LEVELS				
PEGGED CHAINAGE				
HORIZONTAL CURVATURE				
SUPERELEVATION				
TYPICAL CROSS SECTION TYPE				



VERTICAL ALIGNMENT	171.00	171.05	171.10	171.15	171.20	171.25	171.30	171.35	171.40	171.45	171.50	171.55	171.60	171.65	171.70	171.75	171.80	171.85	171.90	171.95	
PAVEMENT LEVELS																					
SURFACE LEVELS																					
PEGGED CHAINAGE																					
HORIZONTAL CURVATURE																					
SUPERELEVATION																					
TYPICAL CROSS SECTION TYPE																					

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

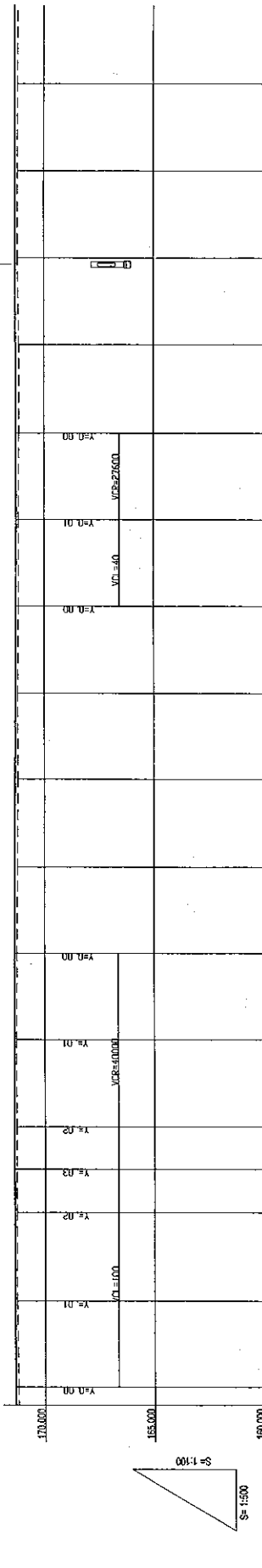
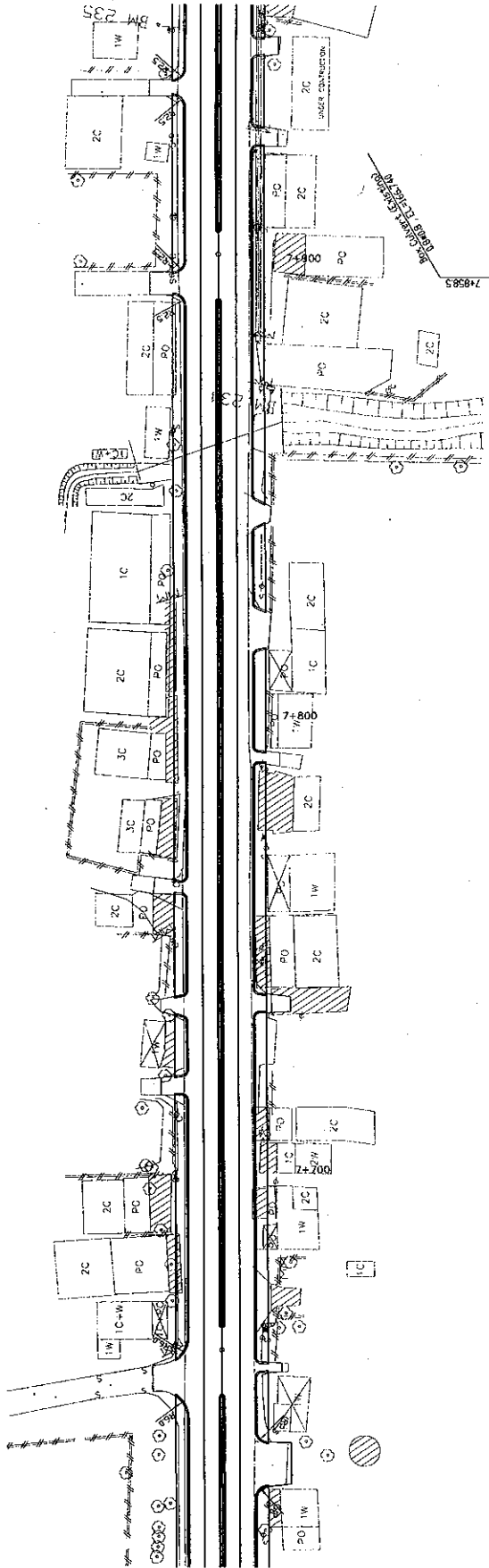
JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO, LTD

TITLE: PLAN AND PROFILE
 (STA. 7+300 - STA. 7+600)

SCALE: H=1:500
 V=1:100

DRAWING No: PL-25

Rev: Rv



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
171.19	171.290	171.316	171.19			
171.20	171.281	171.307	171.20			
171.21	171.272	171.298	171.21			
171.22	171.263	171.289	171.22			
171.23	171.254	171.280	171.23			
171.24	171.245	171.271	171.24			
171.25	171.236	171.262	171.25			
171.26	171.227	171.253	171.26			
171.27	171.218	171.244	171.27			
171.28	171.209	171.235	171.28			
171.29	171.200	171.226	171.29			
171.30	171.191	171.217	171.30			
171.31	171.182	171.208	171.31			
171.32	171.173	171.199	171.32			
171.33	171.164	171.190	171.33			
171.34	171.155	171.181	171.34			
171.35	171.146	171.172	171.35			
171.36	171.137	171.163	171.36			
171.37	171.128	171.154	171.37			
171.38	171.119	171.145	171.38			
171.39	171.110	171.136	171.39			
171.40	171.101	171.127	171.40			
171.41	171.092	171.118	171.41			
171.42	171.083	171.109	171.42			
171.43	171.074	171.100	171.43			
171.44	171.065	171.091	171.44			
171.45	171.056	171.082	171.45			
171.46	171.047	171.073	171.46			
171.47	171.038	171.064	171.47			
171.48	171.029	171.055	171.48			
171.49	171.020	171.046	171.49			
171.50	171.011	171.037	171.50			
171.51	171.002	171.028	171.51			
171.52	170.993	171.019	171.52			
171.53	170.984	171.010	171.53			
171.54	170.975	171.001	171.54			
171.55	170.966	170.992	171.55			
171.56	170.957	170.983	171.56			
171.57	170.948	170.974	171.57			
171.58	170.939	170.965	171.58			
171.59	170.930	170.956	171.59			
171.60	170.921	170.947	171.60			
171.61	170.912	170.938	171.61			
171.62	170.903	170.929	171.62			
171.63	170.894	170.920	171.63			
171.64	170.885	170.911	171.64			
171.65	170.876	170.902	171.65			
171.66	170.867	170.893	171.66			
171.67	170.858	170.884	171.67			
171.68	170.849	170.875	171.68			
171.69	170.840	170.866	171.69			
171.70	170.831	170.857	171.70			
171.71	170.822	170.848	171.71			
171.72	170.813	170.839	171.72			
171.73	170.804	170.830	171.73			
171.74	170.795	170.821	171.74			
171.75	170.786	170.812	171.75			
171.76	170.777	170.803	171.76			
171.77	170.768	170.794	171.77			
171.78	170.759	170.785	171.78			
171.79	170.750	170.776	171.79			
171.80	170.741	170.767	171.80			
171.81	170.732	170.758	171.81			
171.82	170.723	170.749	171.82			
171.83	170.714	170.740	171.83			
171.84	170.705	170.731	171.84			
171.85	170.696	170.722	171.85			
171.86	170.687	170.713	171.86			
171.87	170.678	170.704	171.87			
171.88	170.669	170.695	171.88			
171.89	170.660	170.686	171.89			
171.90	170.651	170.677	171.90			
171.91	170.642	170.668	171.91			
171.92	170.633	170.659	171.92			
171.93	170.624	170.650	171.93			
171.94	170.615	170.641	171.94			
171.95	170.606	170.632	171.95			
171.96	170.597	170.623	171.96			
171.97	170.588	170.614	171.97			
171.98	170.579	170.605	171.98			
171.99	170.570	170.596	171.99			
172.00	170.561	170.587	172.00			

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

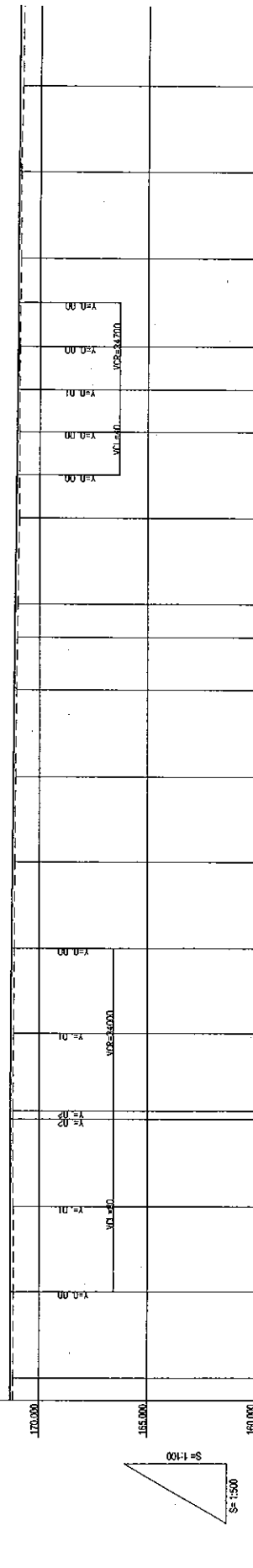
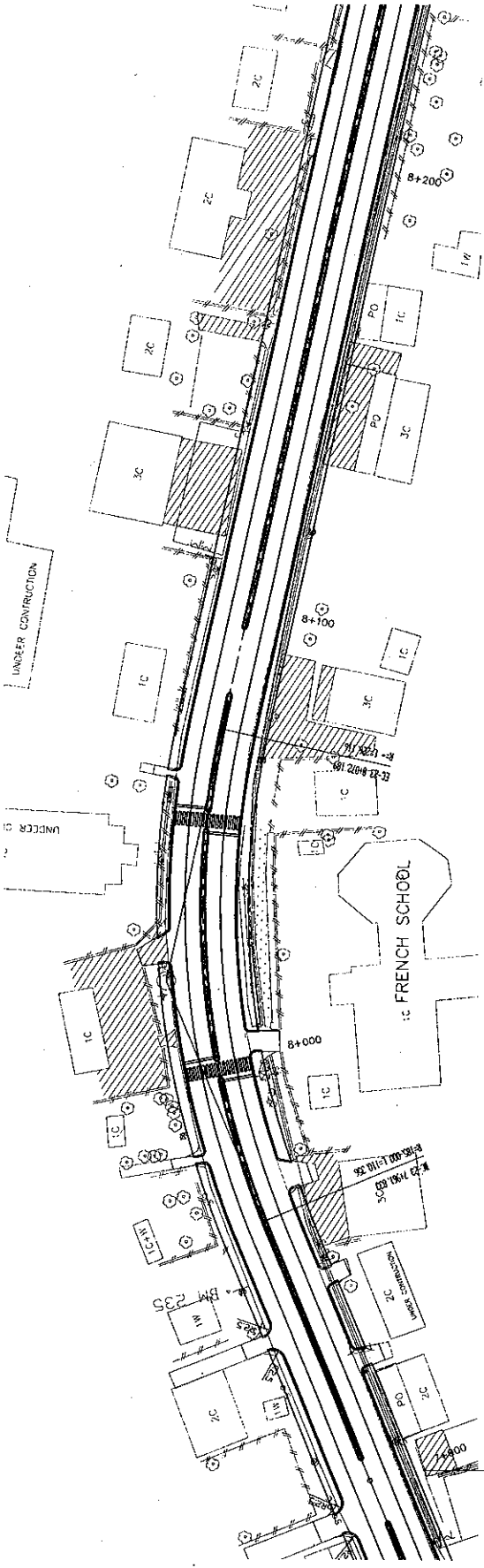
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE: PLAN AND PROFILE
(STA. 7+600 - STA. 7+900)

SCALE: H=1:500 V=1:100

DRAWING No: PL-26

Rev: _____



VERTICAL ALIGNMENT	STATION	ELEVATION
PAVEMENT LEVELS	0+00	170.00
	8+200	170.00
SURFACE LEVELS	0+00	171.26
	8+200	171.26
PEGGED CHAINAGE	0+00	171.26
	8+200	171.26
HORIZONTAL CURVATURE	0+00	171.26
	8+200	171.26
SUPERELEVATION	0+00	171.26
	8+200	171.26
TYPICAL CROSS SECTION TYPE	0+00	171.26
	8+200	171.26

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

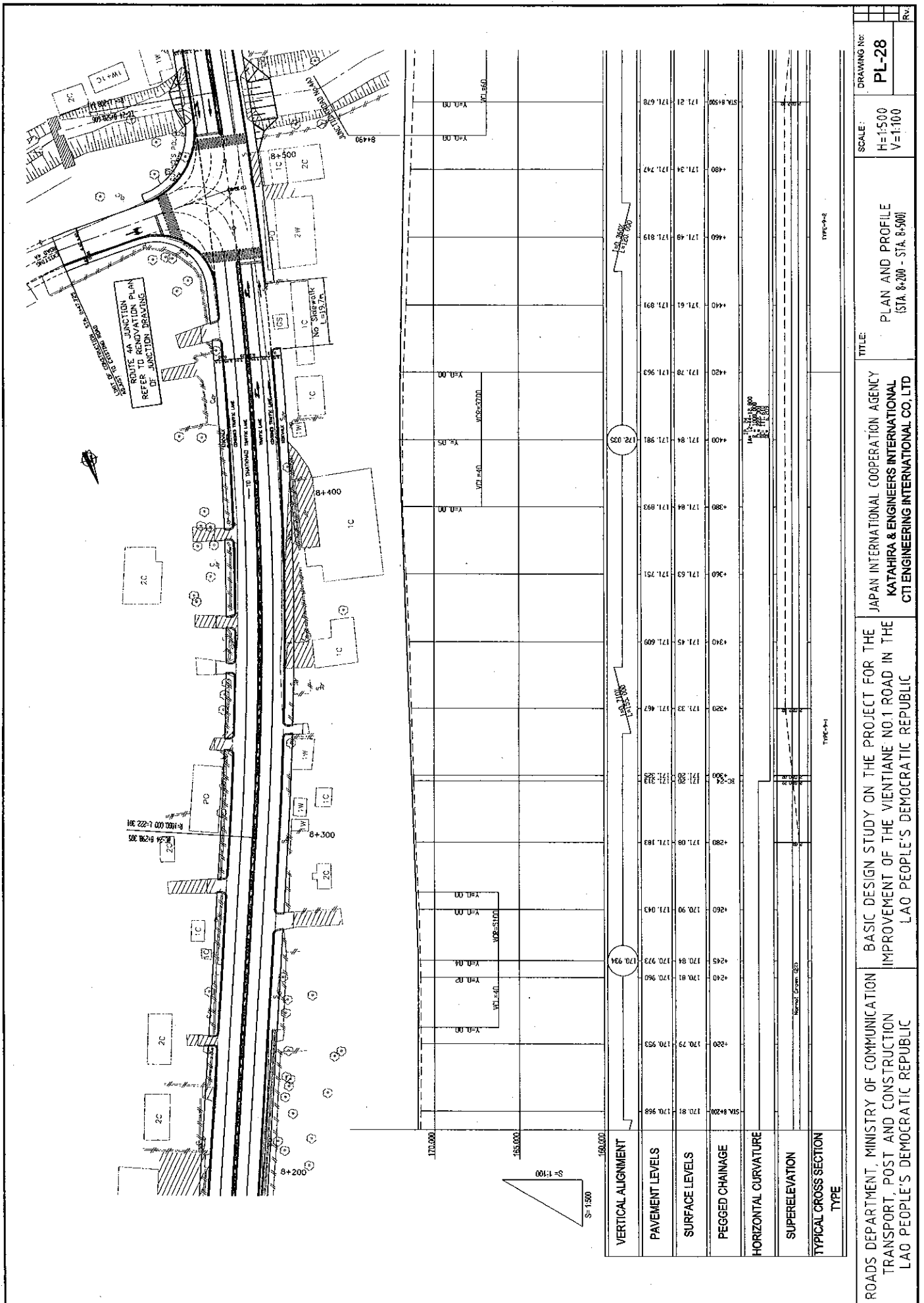
JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CITI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE
 (STA. 1+900 - STA. 8+200)

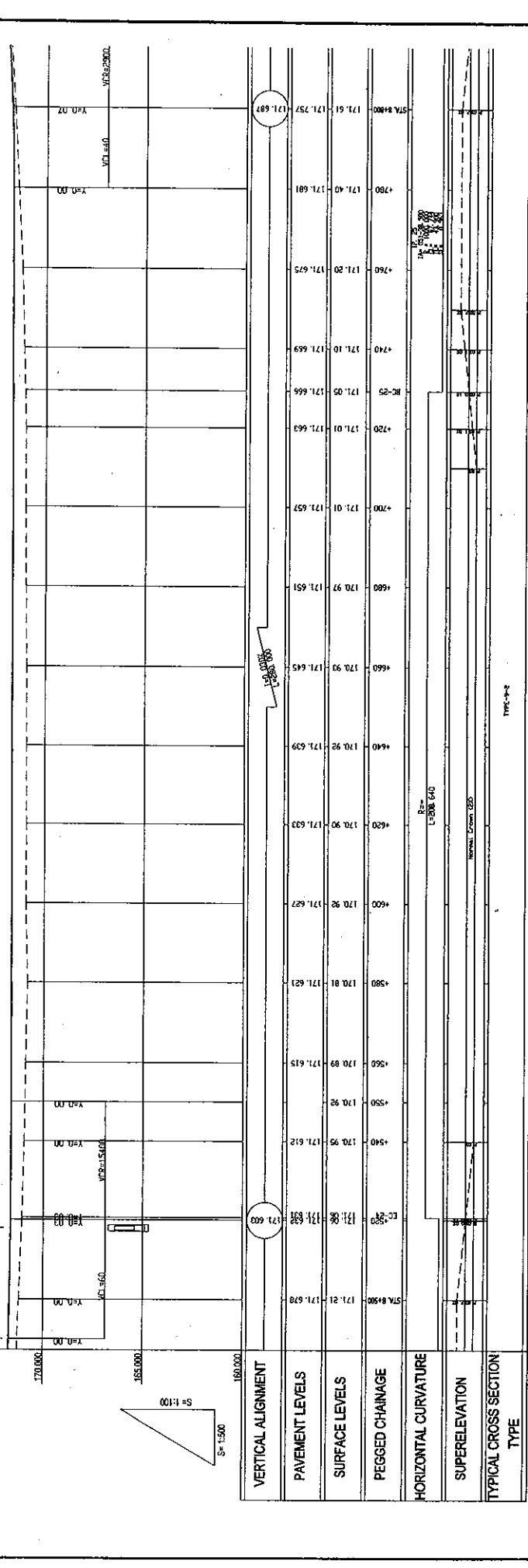
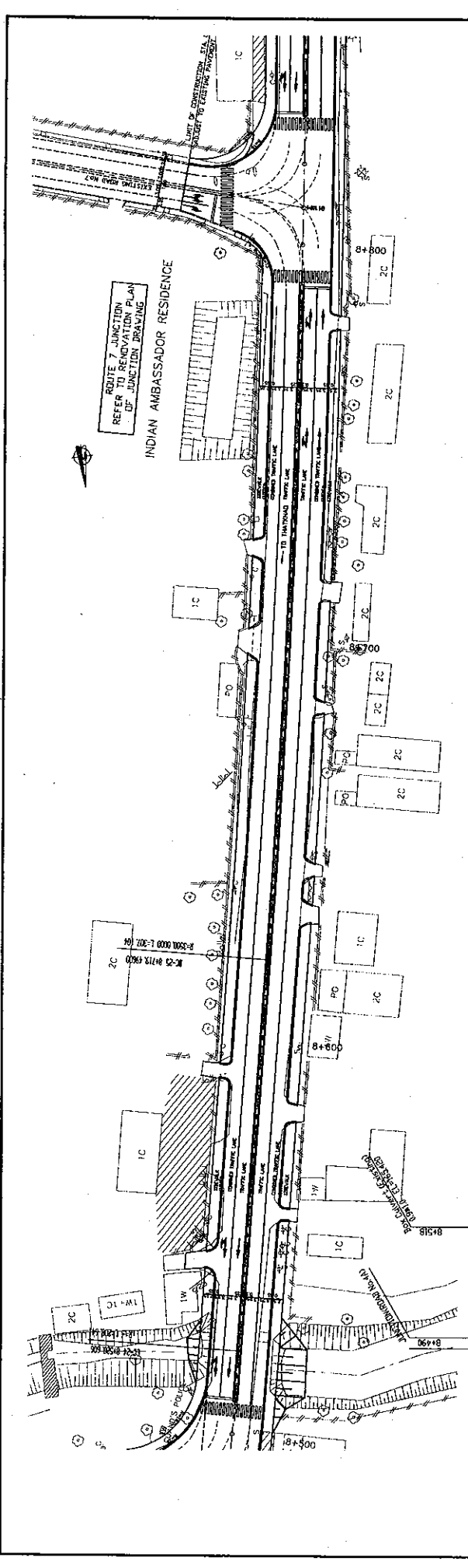
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DRAWING NO: PL-27

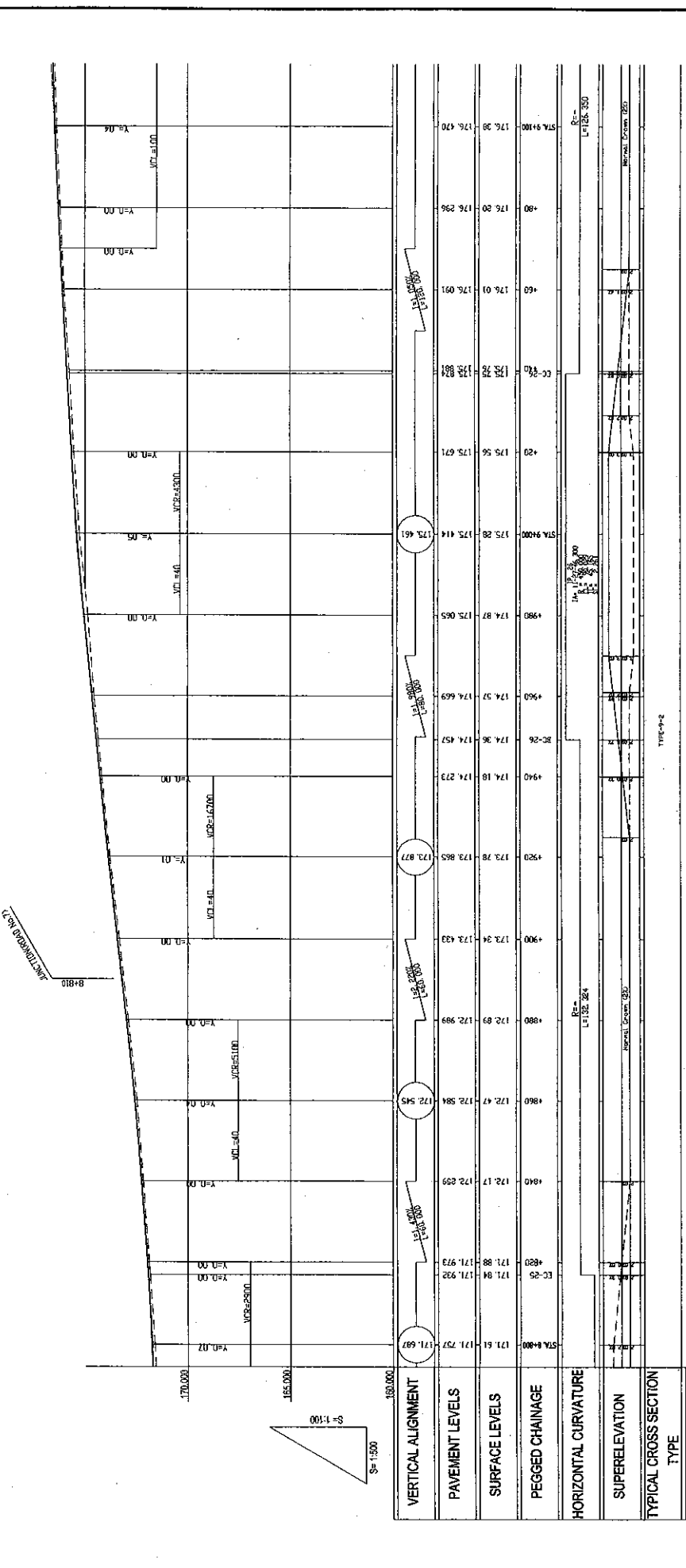
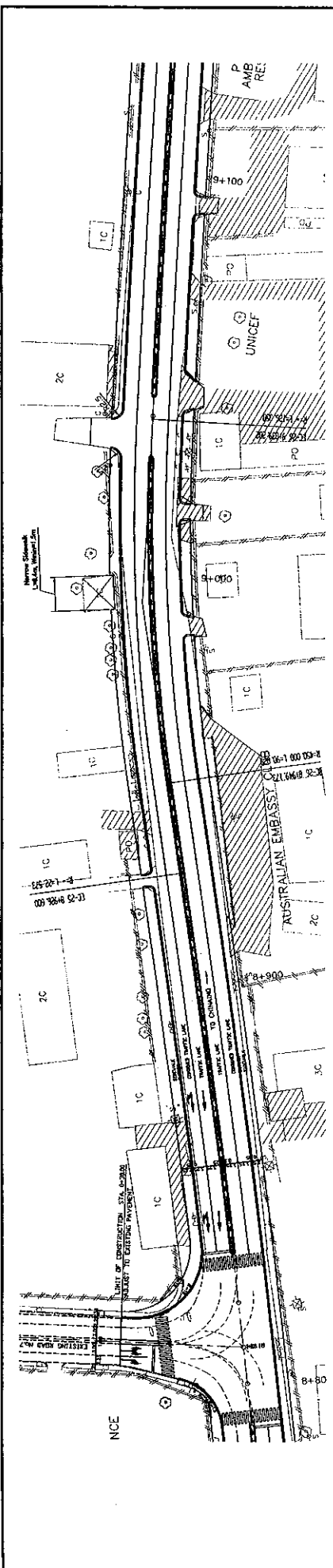
REV



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA. 8+200 - STA. 8+500)	DRAWING NO:	PL-28
			SCALE:	H=1:500 V=1:100		
					REV:	



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO, LTD	TITLE:	PLAN AND PROFILE (STA. 0+300 - STA. 0+800)	SCALE:	H=1:500 V=1:100	DRAWING No:	PL-29



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
STA 8+800 171.697	171.84	171.922	171.697			TYPE-4-2
8820	171.88	171.973	172.584			
8800	172.47	172.584	172.584			TYPE-4-2
8800	172.69	172.999	173.433			
8900	173.24	173.433	173.877			TYPE-4-2
8920	173.78	173.885	174.273			
8940	174.18	174.273	174.457			TYPE-4-2
8960	174.36	174.457	174.639			
8980	174.87	175.065	175.414			TYPE-4-2
8980	175.28	175.414	175.671			
8990	175.56	175.671	175.991			TYPE-4-2
8990	175.90	175.991	176.296			
9000	176.38	176.296	176.476			TYPE-4-2
9000	176.70	176.476	176.796			

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

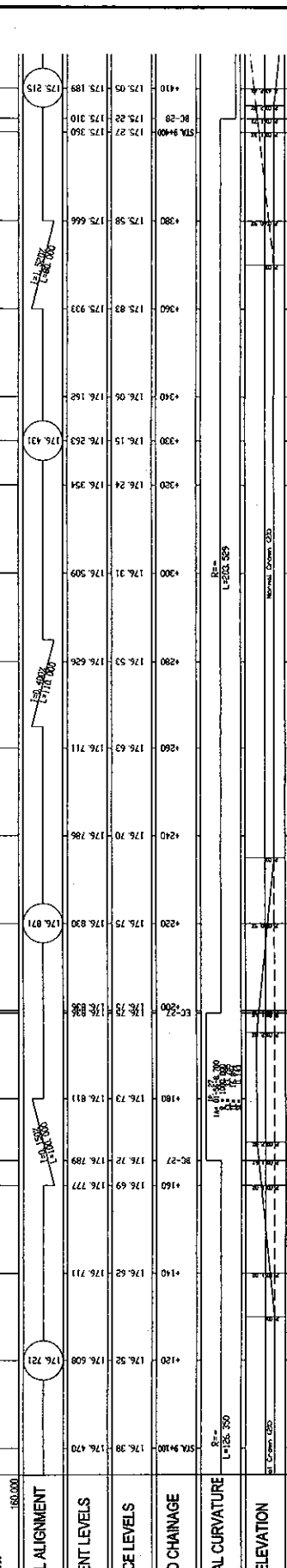
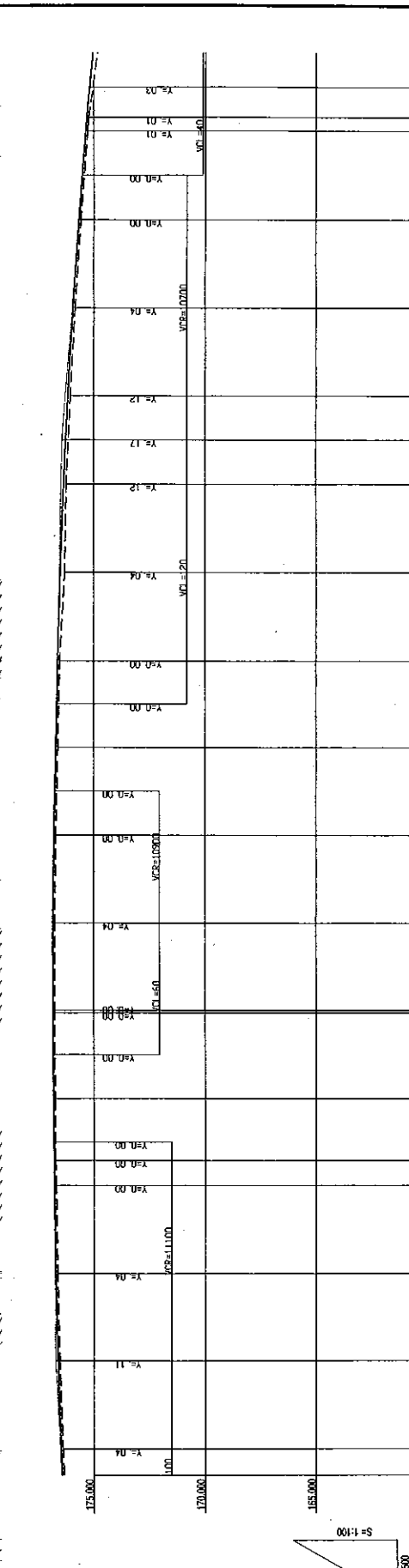
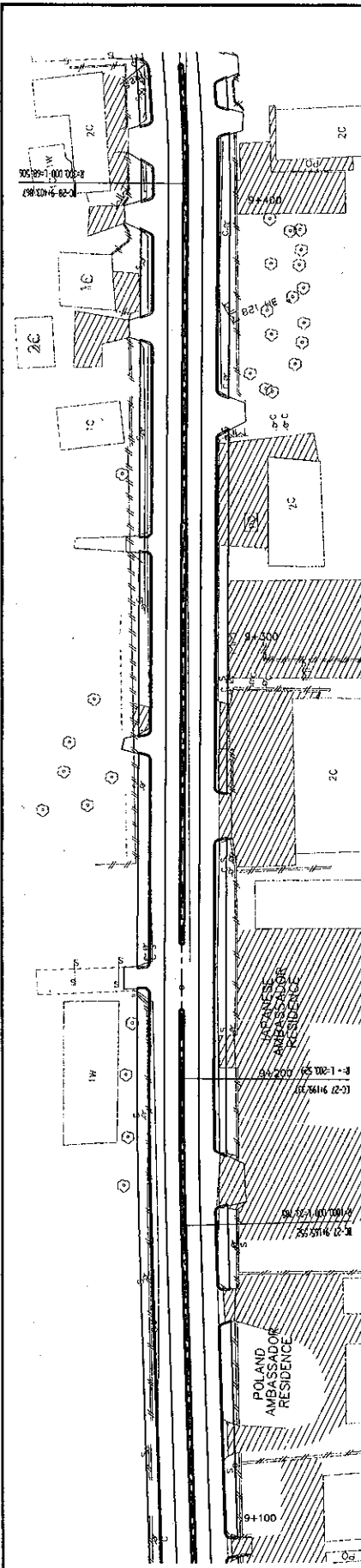
BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CITI ENGINEERING INTERNATIONAL CO. LTD

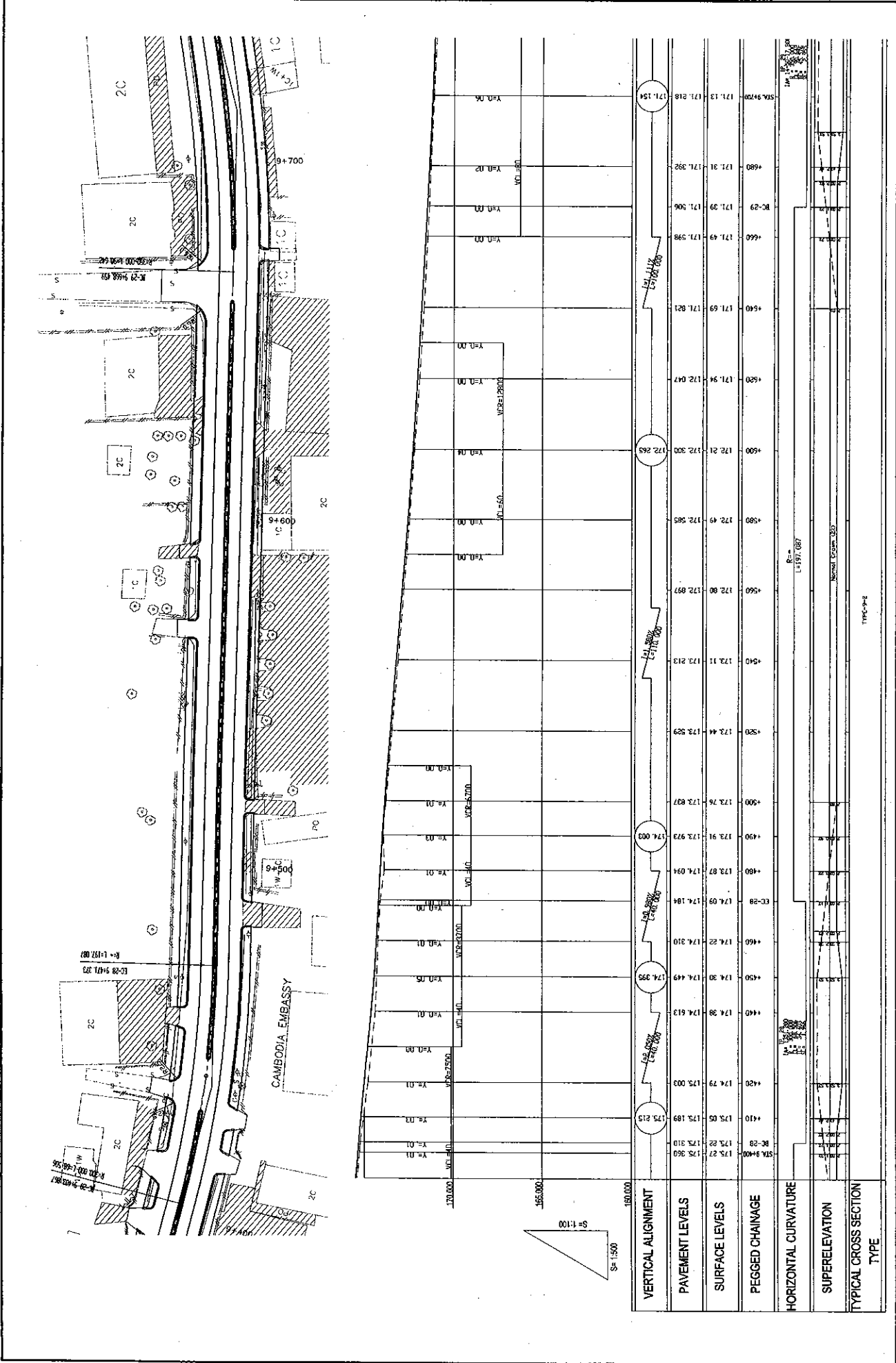
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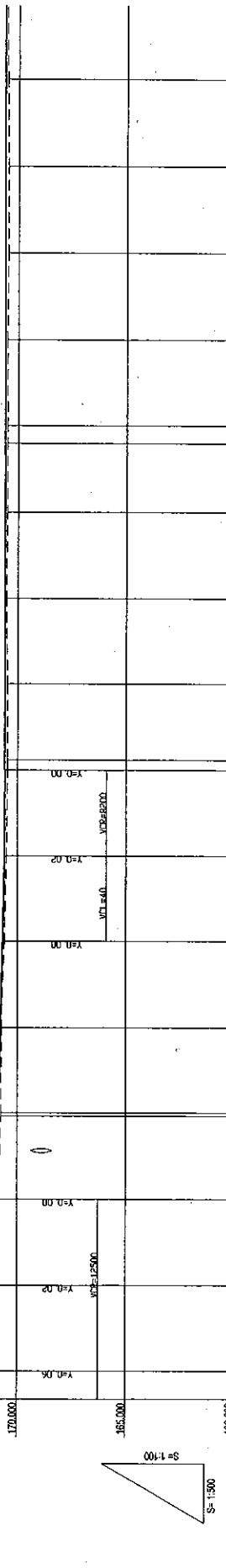
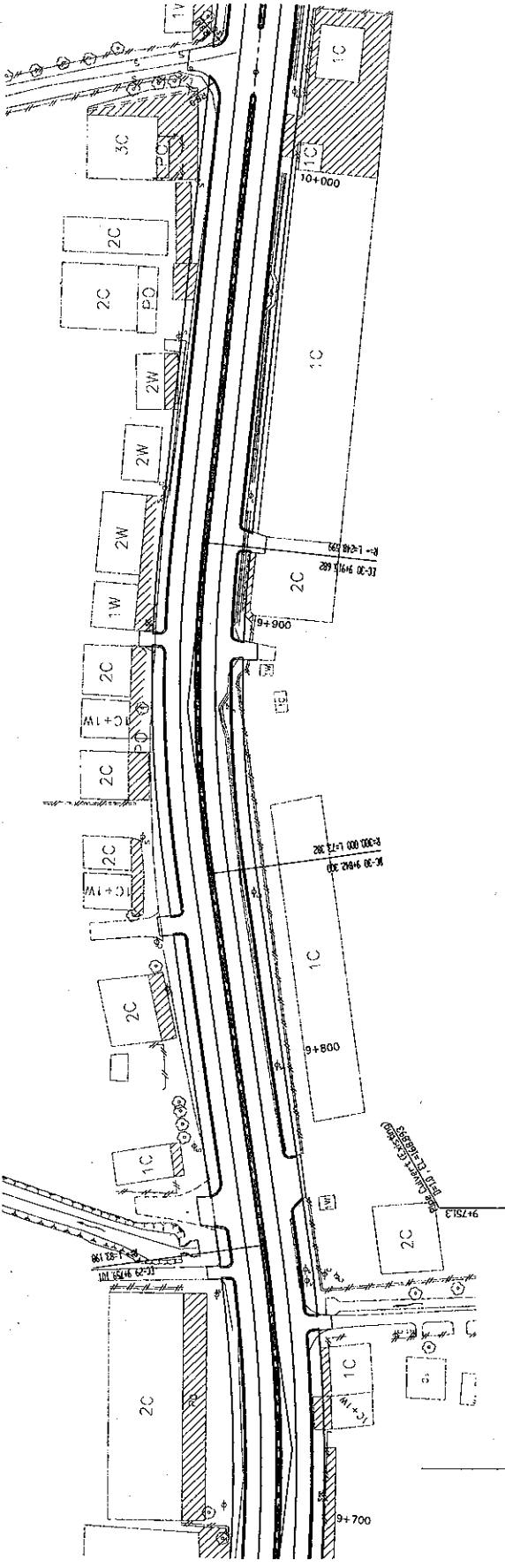
DRAWING NO: PL-30



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA 9+100 - STA 9+400)	SCALE: H=1:500 V=1:100	DRAWING No: PL-31
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ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	SCALE:	DRAWING NO:
			PLAN AND PROFILE (STA. 9+400 - STA. 9+700)	H=1:500 V=1:100	PL-32
R.V.					



VERTICAL ALIGNMENT	171.154	171.218	171.154	170.976	170.966	170.778	170.684	170.615	170.594	170.598	170.602	170.606	170.609	170.610	170.614	170.618	170.622	170.626	170.626
PAVEMENT LEVELS																			
SURFACE LEVELS																			
PEGGED CHAINAGE																			
HORIZONTAL CURVATURE																			
SUPERELEVATION																			
TYPICAL CROSS SECTION TYPE																			

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

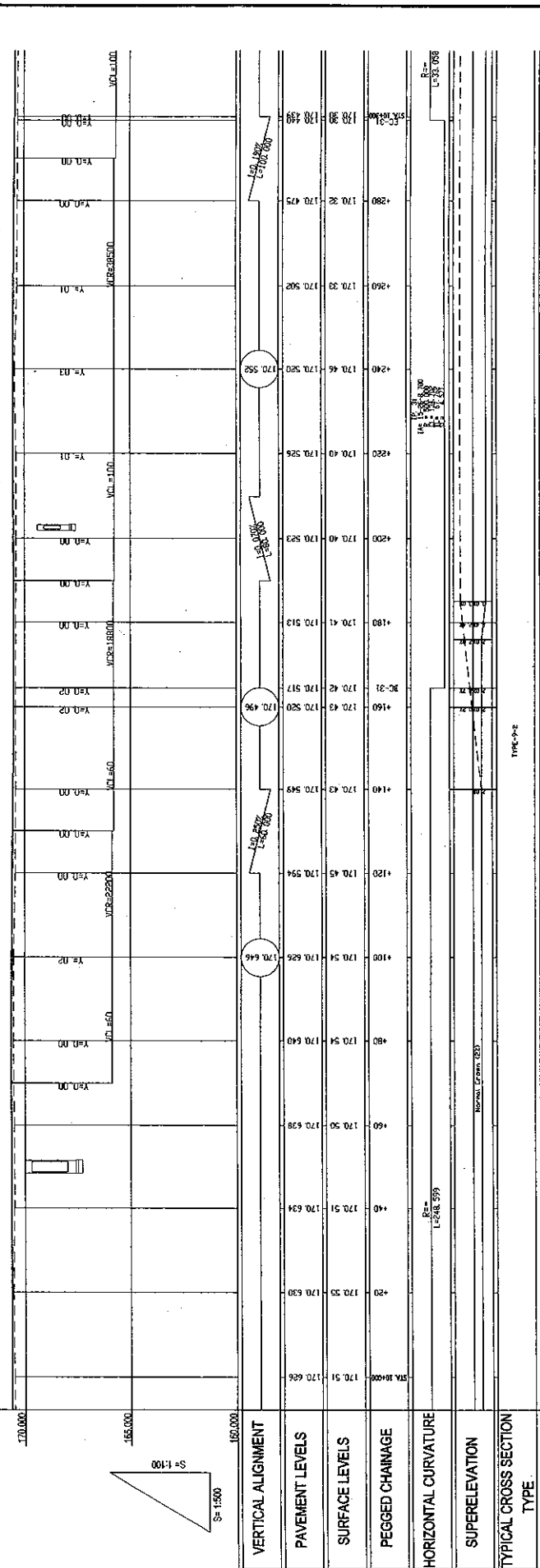
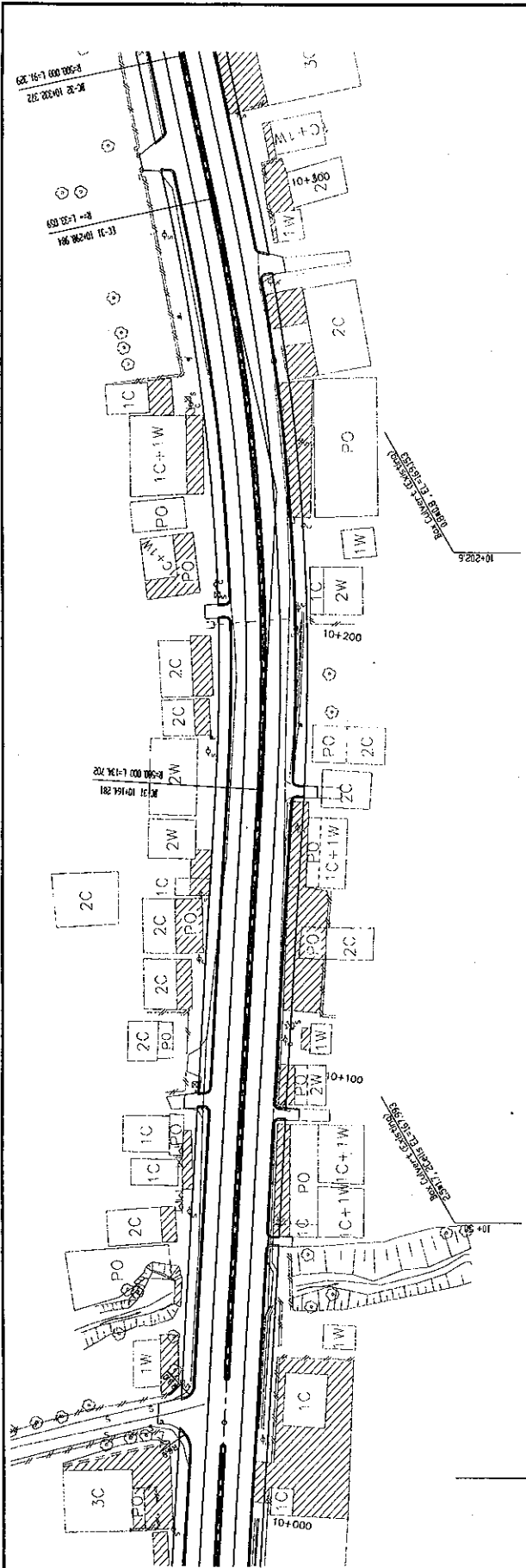
JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE
 (STA. 9+700 - STA. 10+000)

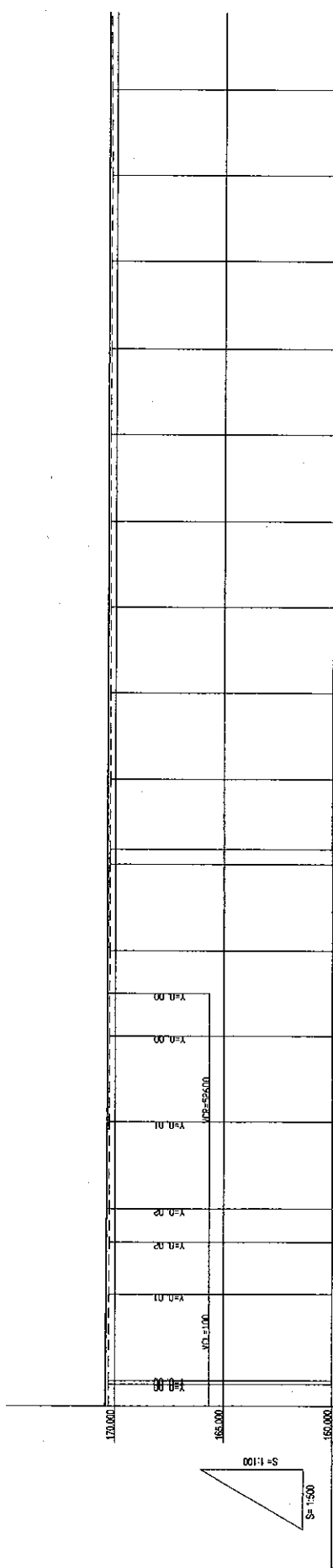
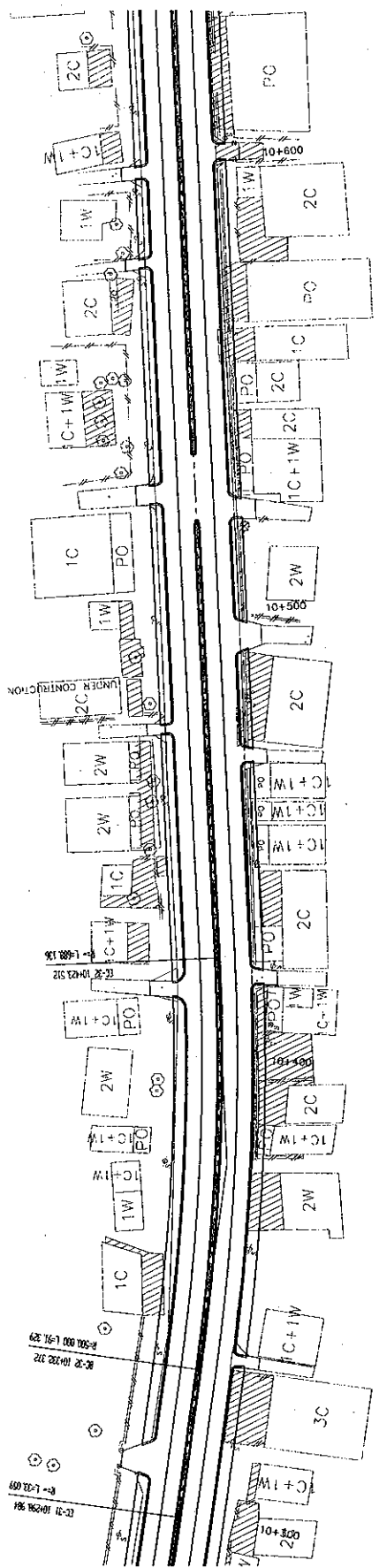
SCALE: H=1:500
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DRAWING NO: PL-33

REV: Rv



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA. 00+000 - STA. 10+300)	SCALE:	H=1:500 V=1:100	DRAWING NO:	PL-34	REV:	
			VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHANGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE	



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000						
170.010						
170.020						
170.030						
170.040						
170.050						
170.060						
170.070						
170.080						
170.090						
170.100						
170.110						
170.120						
170.130						
170.140						
170.150						
170.160						
170.170						
170.180						
170.190						
170.200						
170.210						
170.220						
170.230						
170.240						
170.250						
170.260						
170.270						
170.280						
170.290						
170.300						
170.310						
170.320						
170.330						
170.340						
170.350						
170.360						
170.370						
170.380						
170.390						
170.400						
170.410						
170.420						
170.430						
170.440						
170.450						
170.460						
170.470						
170.480						
170.490						
170.500						
170.510						
170.520						
170.530						
170.540						
170.550						
170.560						
170.570						
170.580						
170.590						
170.600						

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

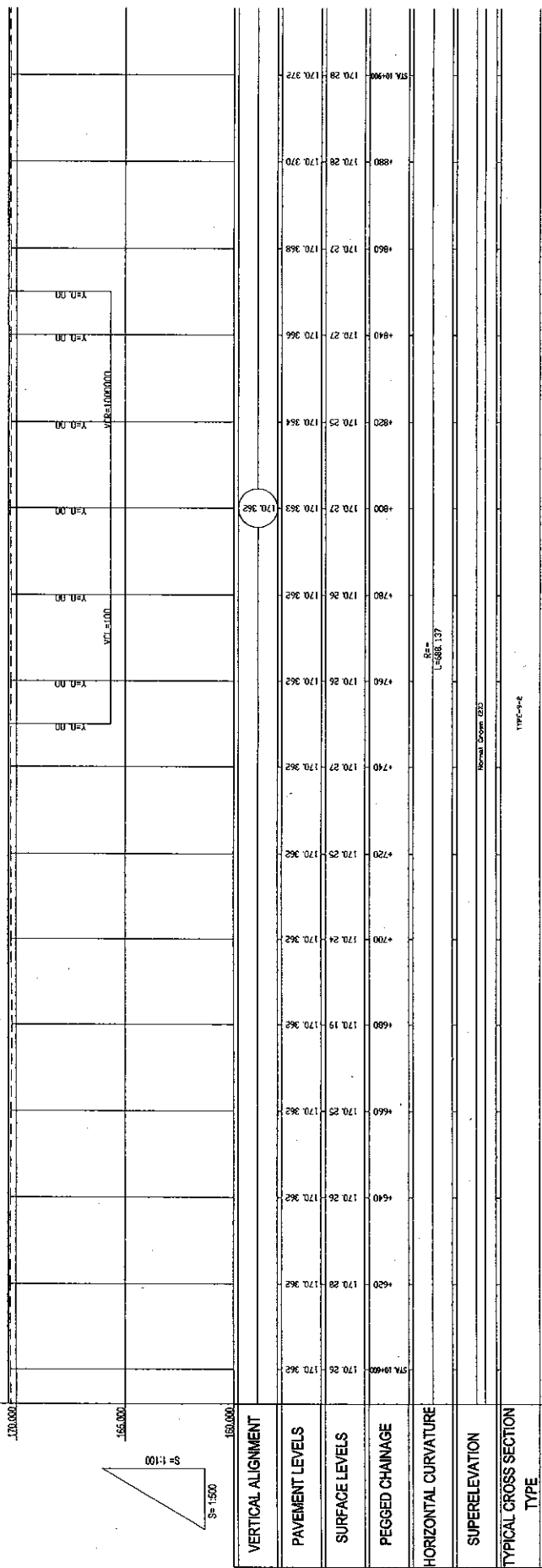
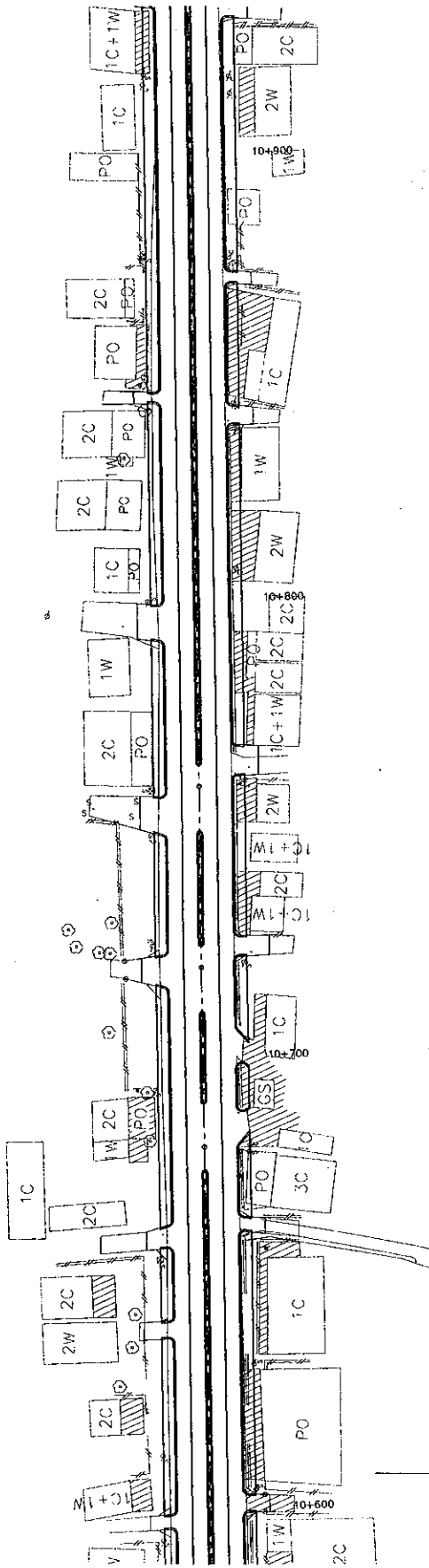
BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CITI ENGINEERING INTERNATIONAL CO. LTD

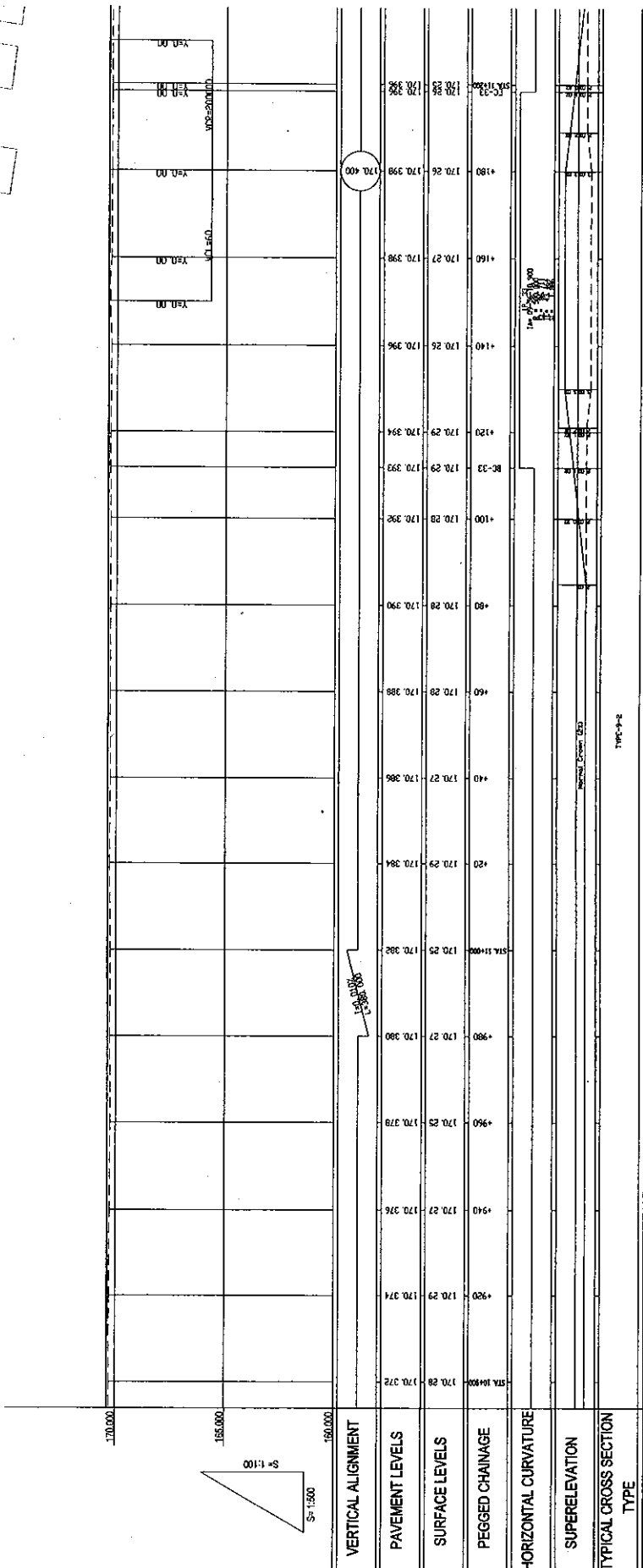
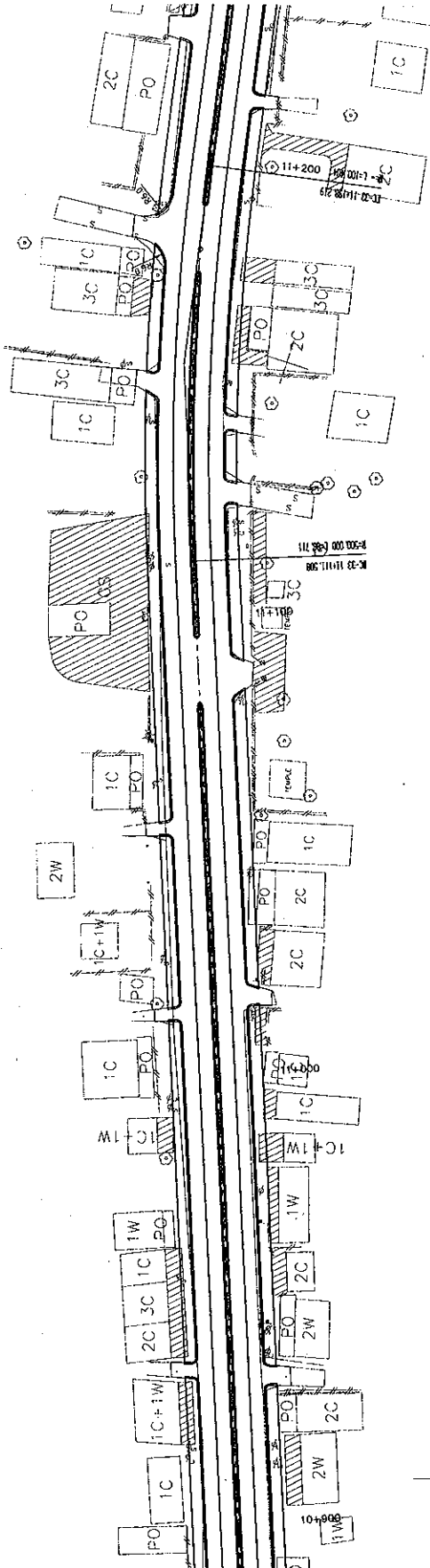
TITLE: PLAN AND PROFILE (STA. 10+300 - STA. 10+600)

SCALE: H=1:500 V=1:100

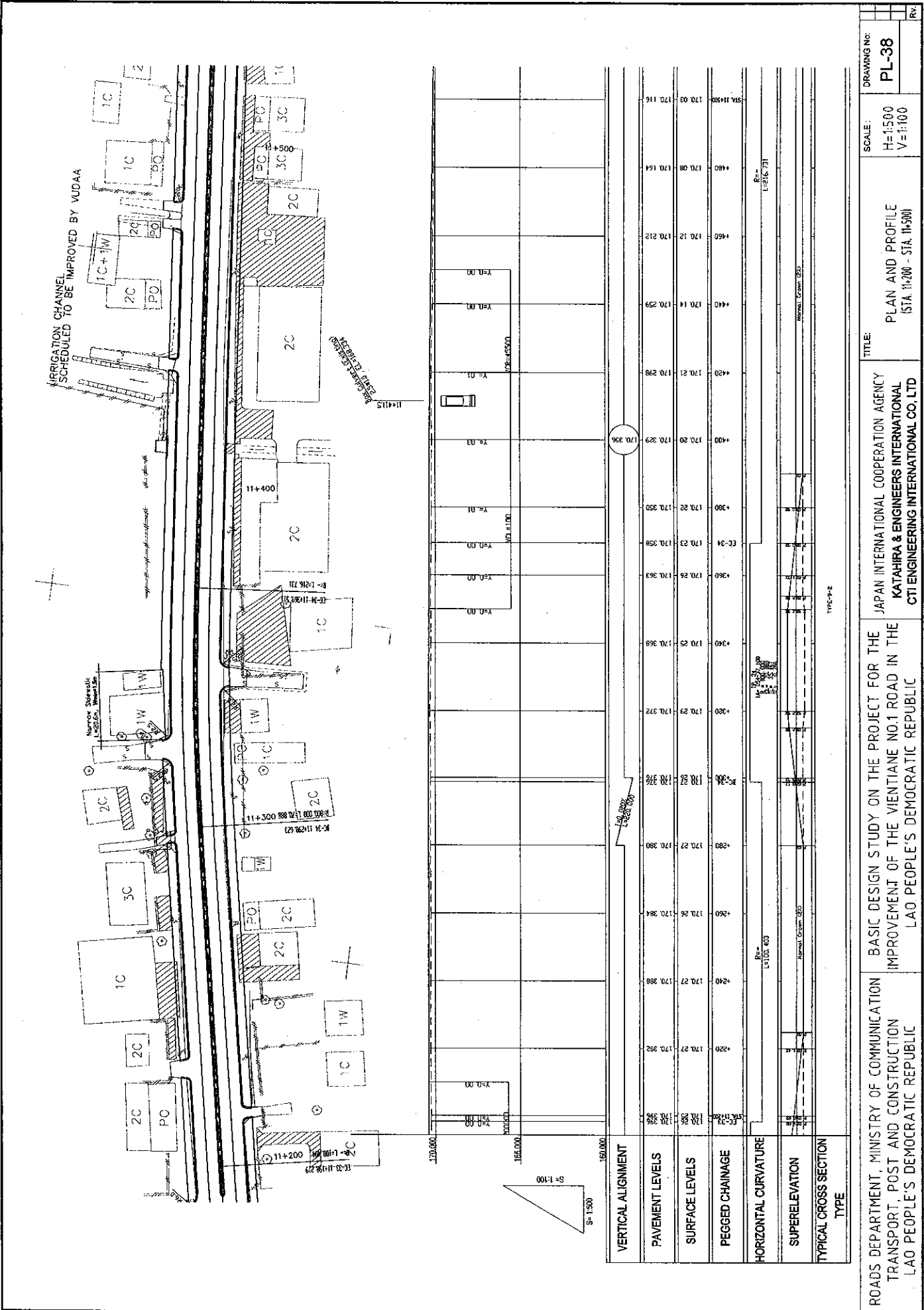
DRAWING NO: PL-35



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA. 10+600 - STA. 10+900)	SCALE: H=1:500 V=1:100	DRAWING No: PL-36	REV.
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ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO, LTD	TITLE:	PLAN AND PROFILE (STA. 10+000 - STA. 11+200)	SCALE:	H=1:500 V=1:100	DRAWING NO:	PL-37	REV:



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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO., LTD

PL-38
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 V=1:100

SCALE:

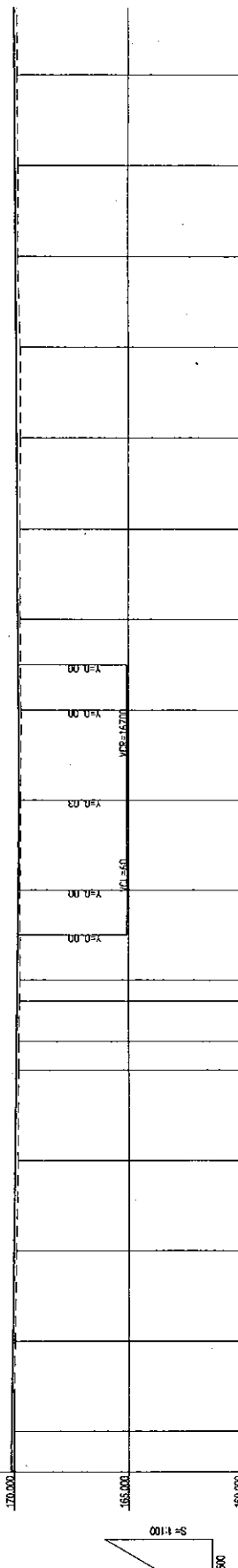
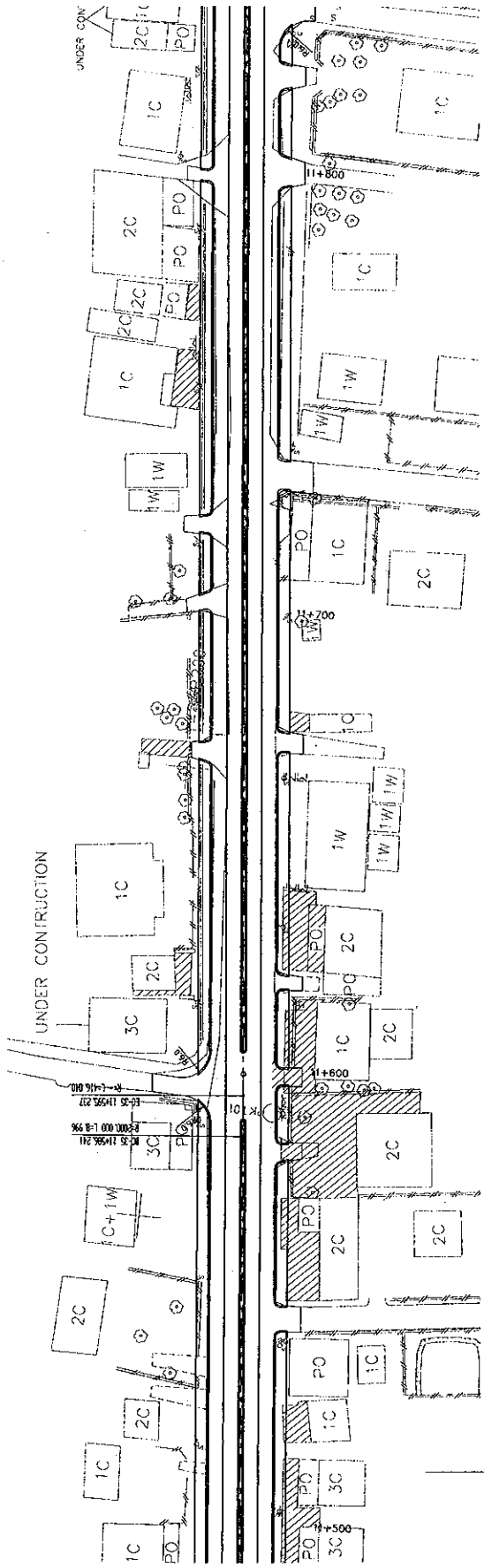
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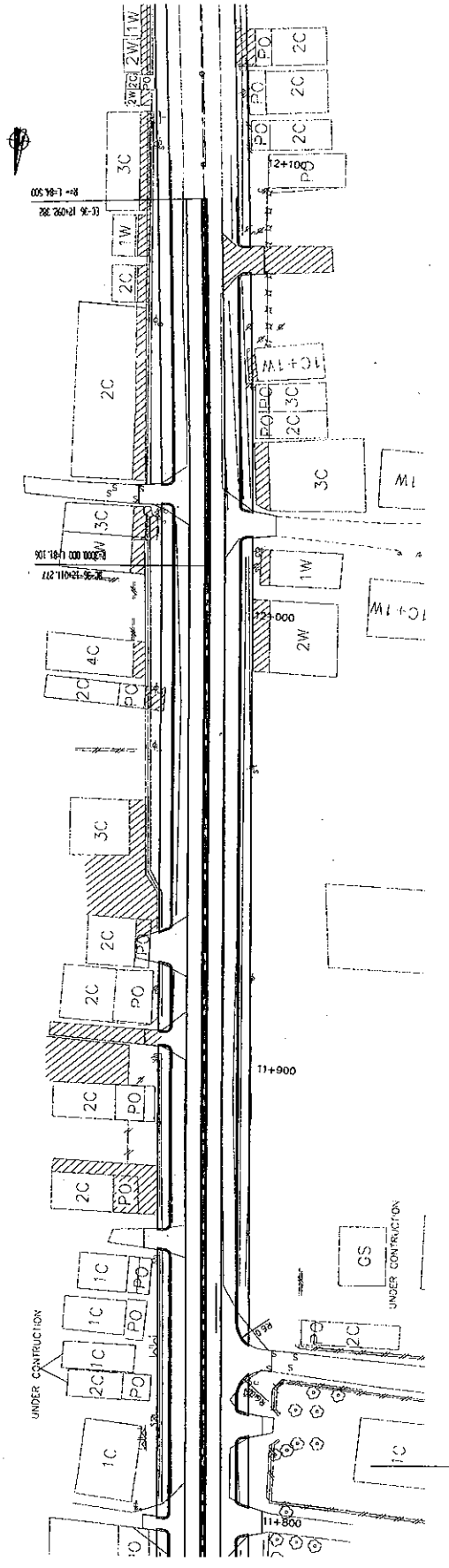
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PLAN AND PROFILE
 (STA. 11+200 - STA. 11+500)



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000						
170.020		170.020	170.020			
170.066		170.066	170.066			
172.02		172.02	172.02			
172.116		172.116	172.116			
172.02		172.02	172.02			
170.020		170.020	170.020			
+540		169.92	170.020			
+550		169.85	169.972			
+560		169.78	169.972			
+600		169.75	169.976			
+620		169.75	169.931			
+640		169.72	169.907			
+660		169.69	169.907			
+680		169.73	169.828			
+700		169.73	169.852			
+720		169.72	169.876			
+740		169.72	169.900			
+760		169.69	169.924			
+780		169.62	169.948			
169.86		169.86	169.972			
169.972		169.972				
STA 114500						
Re=						
L=416.039						
Normal Crown 2%						
1:100						
1:500						

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE: PLAN AND PROFILE (STA. 11500 - STA. 11800)	SCALE:	DRAWING NO:
				H=1:500 V=1:100	PL-39
					RV



VERTICAL ALIGNMENT	170.000	165.000	160.000	155.000	150.000	145.000	140.000	135.000	130.000	125.000	120.000	115.000	110.000	105.000	100.000	95.000	90.000	85.000	80.000	75.000	70.000	65.000	60.000	55.000	50.000	45.000	40.000	35.000	30.000	25.000	20.000	15.000	10.000	5.000	0.000	
PAVEMENT LEVELS	170.000	165.000	160.000	155.000	150.000	145.000	140.000	135.000	130.000	125.000	120.000	115.000	110.000	105.000	100.000	95.000	90.000	85.000	80.000	75.000	70.000	65.000	60.000	55.000	50.000	45.000	40.000	35.000	30.000	25.000	20.000	15.000	10.000	5.000	0.000	
SURFACE LEVELS	170.000	165.000	160.000	155.000	150.000	145.000	140.000	135.000	130.000	125.000	120.000	115.000	110.000	105.000	100.000	95.000	90.000	85.000	80.000	75.000	70.000	65.000	60.000	55.000	50.000	45.000	40.000	35.000	30.000	25.000	20.000	15.000	10.000	5.000	0.000	
PEGGED CHAINAGE	170.000	165.000	160.000	155.000	150.000	145.000	140.000	135.000	130.000	125.000	120.000	115.000	110.000	105.000	100.000	95.000	90.000	85.000	80.000	75.000	70.000	65.000	60.000	55.000	50.000	45.000	40.000	35.000	30.000	25.000	20.000	15.000	10.000	5.000	0.000	
HORIZONTAL CURVATURE																																				
SUPERELEVATION																																				
TYPICAL CROSS SECTION TYPE																																				

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTE ENGINEERING INTERNATIONAL CO., LTD

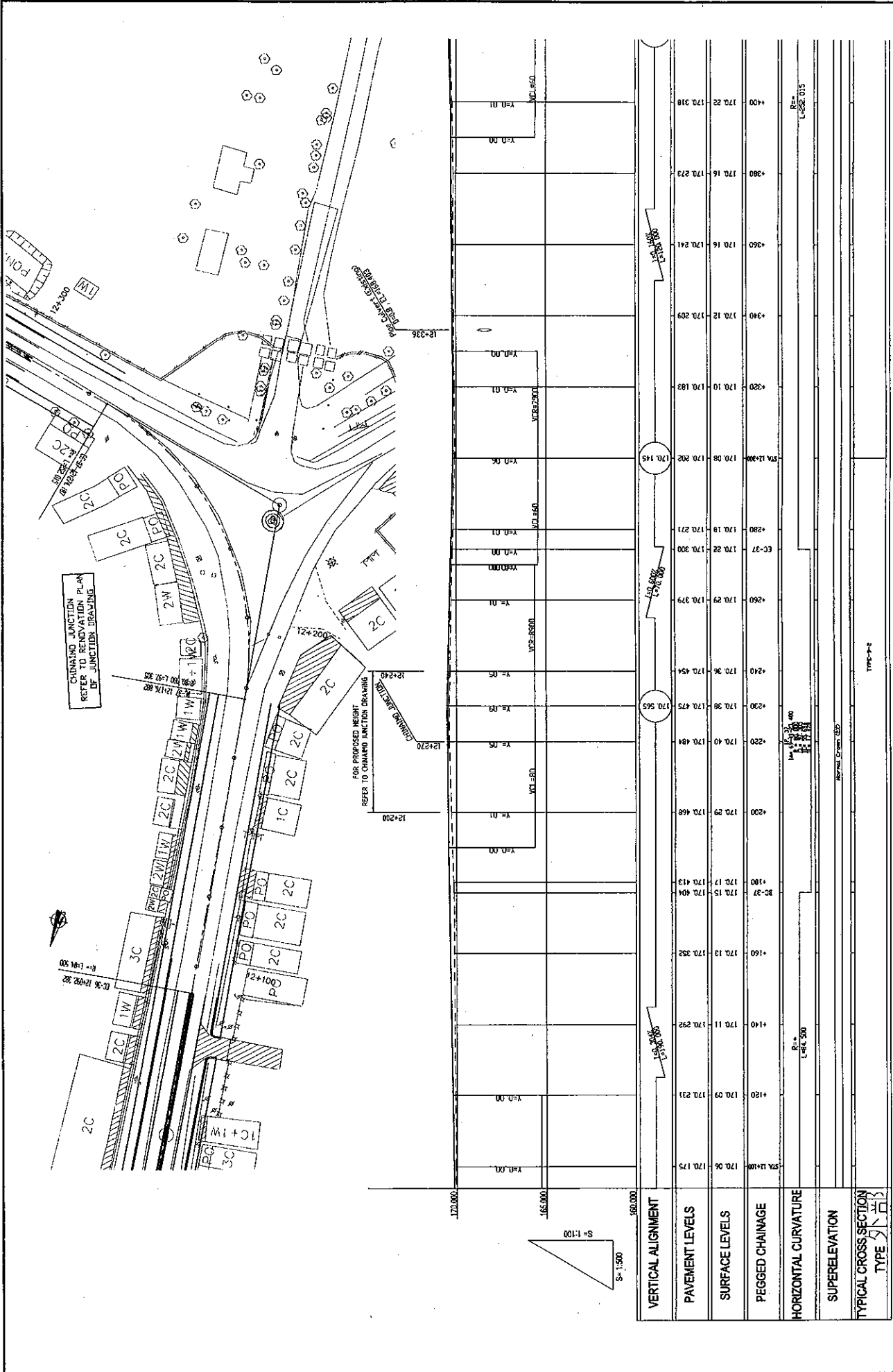
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PLAN AND PROFILE
 (STA 11+800 - STA 12+100)

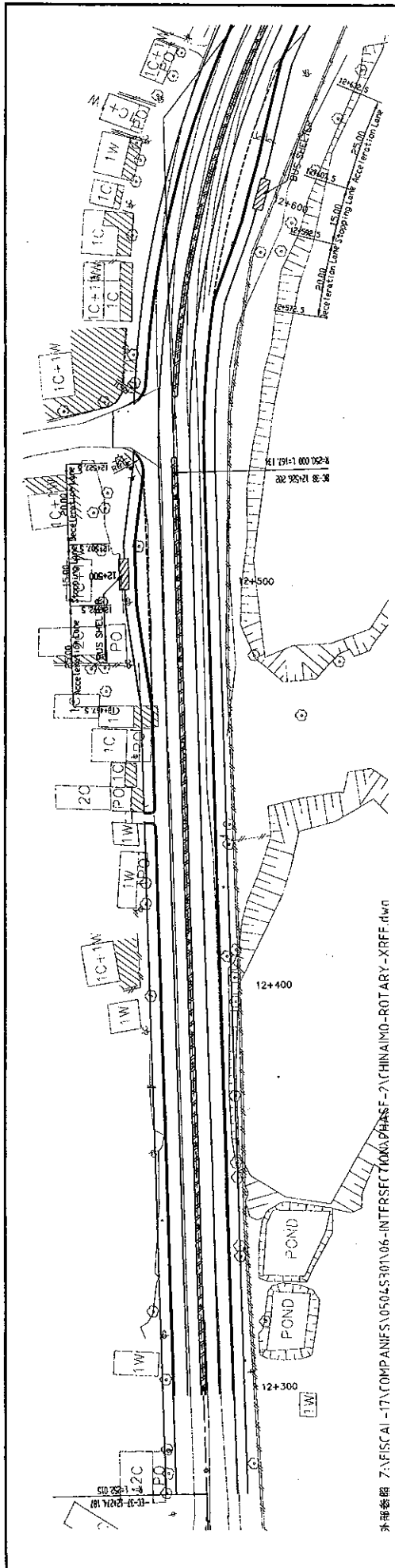
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DRAWING NO:
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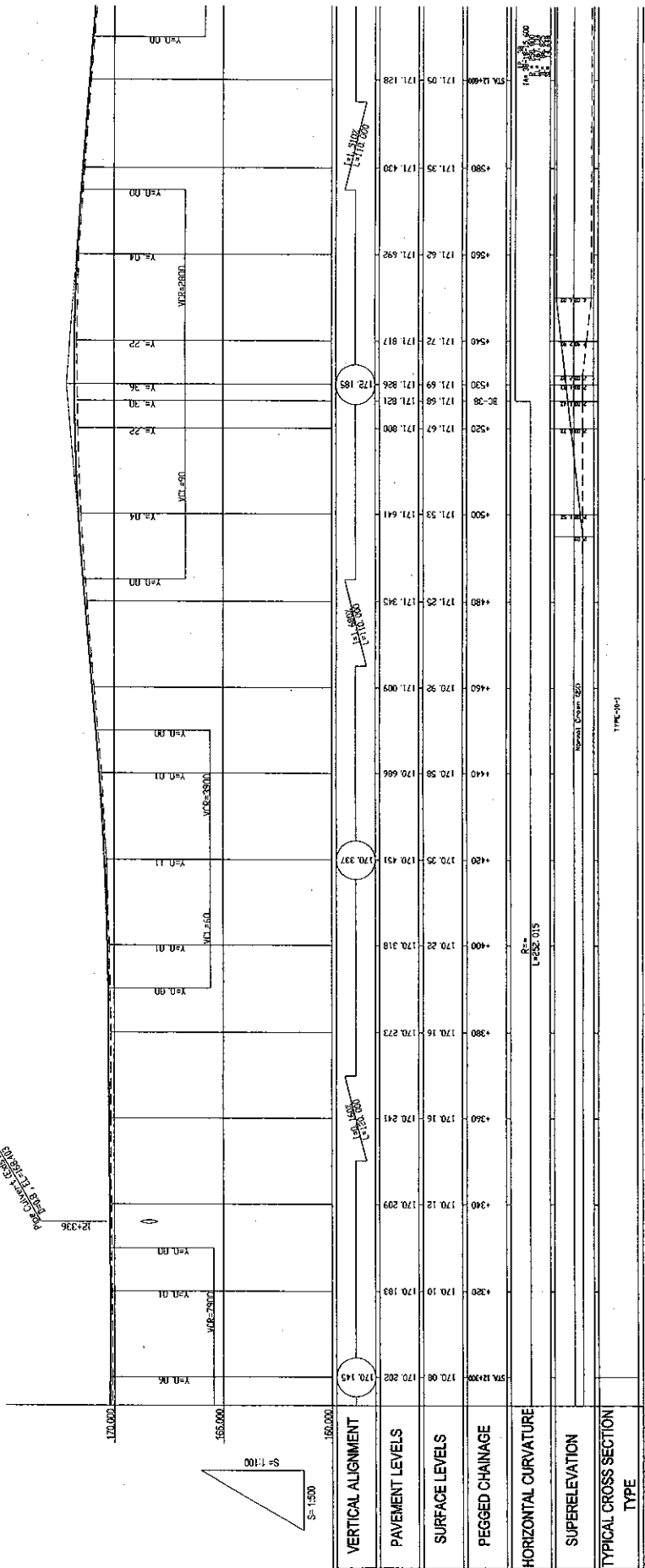
REV:



DRAWING No:		PL-41																																																																			
SCALE:		H=1:500 V=1:100																																																																			
TITLE:		PLAN AND PROFILE (STA 12+100 - STA 12+300)																																																																			
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD																																																																					
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC		BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC																																																																			
VERTICAL CROSS SECTION TYPE 2																																																																					
VERTICAL ALIGNMENT	170.000	170.165	170.165																																																																		
PAVEMENT LEVELS	170.00	170.06	170.10																																																																		
SURFACE LEVELS	170.09	170.11	170.13																																																																		
PEGGED CHAINAGE	12+175	12+200	12+225																																																																		
HORIZONTAL CURVATURE	R=181.500	R=282.000	R=124.500																																																																		
SUPERELEVATION																																																																					
<table border="1"> <tr> <td>STATION</td> <td>12+175</td> <td>12+200</td> <td>12+225</td> <td>12+250</td> <td>12+275</td> <td>12+300</td> <td>12+325</td> <td>12+350</td> <td>12+375</td> <td>12+400</td> </tr> <tr> <td>PAVEMENT LEVEL</td> <td>170.00</td> <td>170.00</td> <td>170.00</td> <td>170.00</td> <td>170.00</td> <td>170.00</td> <td>170.00</td> <td>170.00</td> <td>170.00</td> <td>170.00</td> </tr> <tr> <td>SURFACE LEVEL</td> <td>170.09</td> <td>170.11</td> <td>170.13</td> <td>170.15</td> <td>170.17</td> <td>170.19</td> <td>170.21</td> <td>170.23</td> <td>170.25</td> <td>170.27</td> </tr> <tr> <td>PEGGED CHAINAGE</td> <td>12+175</td> <td>12+200</td> <td>12+225</td> <td>12+250</td> <td>12+275</td> <td>12+300</td> <td>12+325</td> <td>12+350</td> <td>12+375</td> <td>12+400</td> </tr> <tr> <td>HORIZONTAL CURVATURE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SUPERELEVATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				STATION	12+175	12+200	12+225	12+250	12+275	12+300	12+325	12+350	12+375	12+400	PAVEMENT LEVEL	170.00	170.00	170.00	170.00	170.00	170.00	170.00	170.00	170.00	170.00	SURFACE LEVEL	170.09	170.11	170.13	170.15	170.17	170.19	170.21	170.23	170.25	170.27	PEGGED CHAINAGE	12+175	12+200	12+225	12+250	12+275	12+300	12+325	12+350	12+375	12+400	HORIZONTAL CURVATURE											SUPERELEVATION										
STATION	12+175	12+200	12+225	12+250	12+275	12+300	12+325	12+350	12+375	12+400																																																											
PAVEMENT LEVEL	170.00	170.00	170.00	170.00	170.00	170.00	170.00	170.00	170.00	170.00																																																											
SURFACE LEVEL	170.09	170.11	170.13	170.15	170.17	170.19	170.21	170.23	170.25	170.27																																																											
PEGGED CHAINAGE	12+175	12+200	12+225	12+250	12+275	12+300	12+325	12+350	12+375	12+400																																																											
HORIZONTAL CURVATURE																																																																					
SUPERELEVATION																																																																					

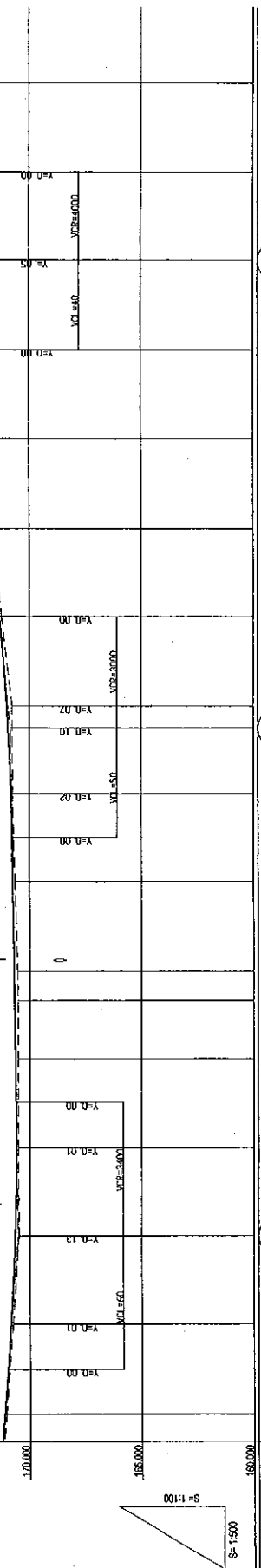
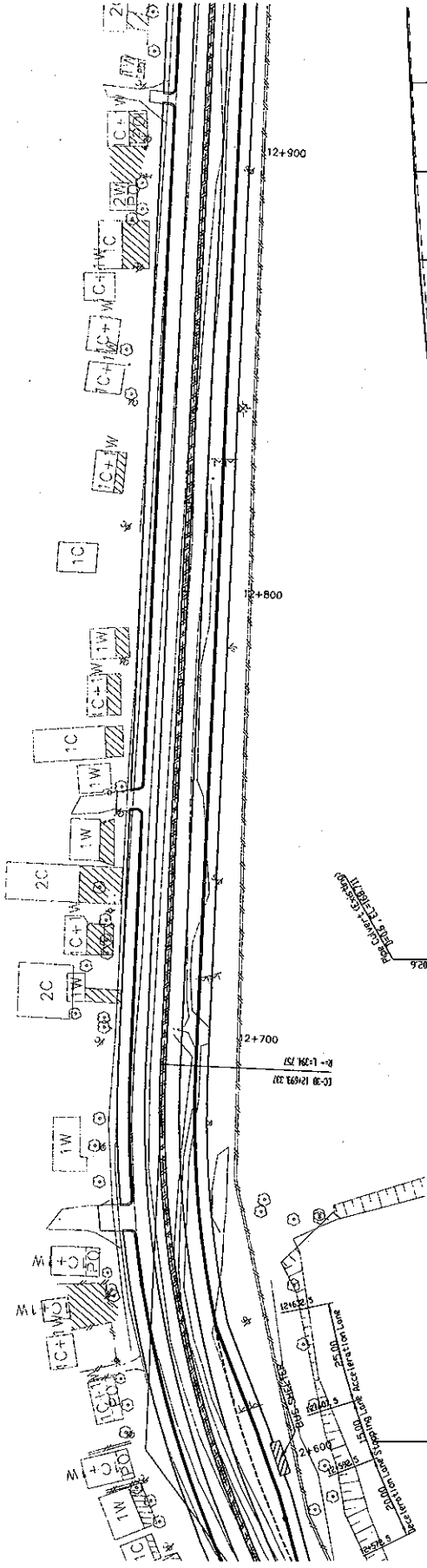


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 Project: Roadway Engineering

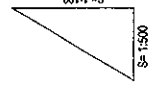


VERTICAL ALIGNMENT	170.145	170.202	170.209	170.216	170.223	170.230	170.237	170.244	170.251	170.258	170.265	170.272	170.279	170.286	170.293	170.300	170.307	170.314	170.321	170.328	170.335	170.342	170.349	170.356	170.363	170.370	170.377	170.384	170.391	170.398	170.405
PAVEMENT LEVELS	171.08	171.10	171.12	171.14	171.16	171.18	171.20	171.22	171.24	171.26	171.28	171.30	171.32	171.34	171.36	171.38	171.40	171.42	171.44	171.46	171.48	171.50	171.52	171.54	171.56	171.58	171.60	171.62	171.64	171.66	
SURFACE LEVELS	171.00	171.05	171.10	171.15	171.20	171.25	171.30	171.35	171.40	171.45	171.50	171.55	171.60	171.65	171.70	171.75	171.80	171.85	171.90	171.95	172.00	172.05	172.10	172.15	172.20	172.25	172.30	172.35	172.40	172.45	
PEGGED CHAINAGE																															
HORIZONTAL CURVATURE																															
SUPERELEVATION																															
TYPICAL CROSS SECTION	TYPE-01																														

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	PLAN AND PROFILE (STA. 12+300 - STA. 12+600)	SCALE:	H=1:500 V=1:100	DRAWING No:	PL-42



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION	TYPE
171.05	170.75	170.941	171.05	170.524	171.05	171.128	171.05
170.75	170.51	170.598	170.51	170.524	170.51	170.598	170.51
170.51	170.51	170.536	170.51	170.524	170.51	170.536	170.51
170.51	170.52	170.674	170.52	170.524	170.52	170.674	170.52
170.53	170.53	170.692	170.53	170.524	170.53	170.692	170.53
170.65	170.65	170.748	170.65	170.524	170.65	170.748	170.65
170.75	170.75	170.820	170.75	170.524	170.75	170.820	170.75
170.76	170.76	170.948	170.76	170.524	170.76	170.948	170.76
170.77	170.77	171.008	170.77	170.524	170.77	171.008	170.77
171.23	171.23	171.326	171.23	170.524	171.23	171.326	171.23
171.63	171.63	171.710	171.63	170.524	171.63	171.710	171.63
172.00	172.00	172.094	172.00	170.524	172.00	172.094	172.00
172.32	172.32	172.478	172.32	170.524	172.32	172.478	172.32
172.67	172.67	172.812	172.67	170.524	172.67	172.812	172.67
172.96	172.96	173.046	172.96	170.524	172.96	173.046	172.96
173.15	173.15	173.230	173.15	170.524	173.15	173.230	173.15



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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO. LTD

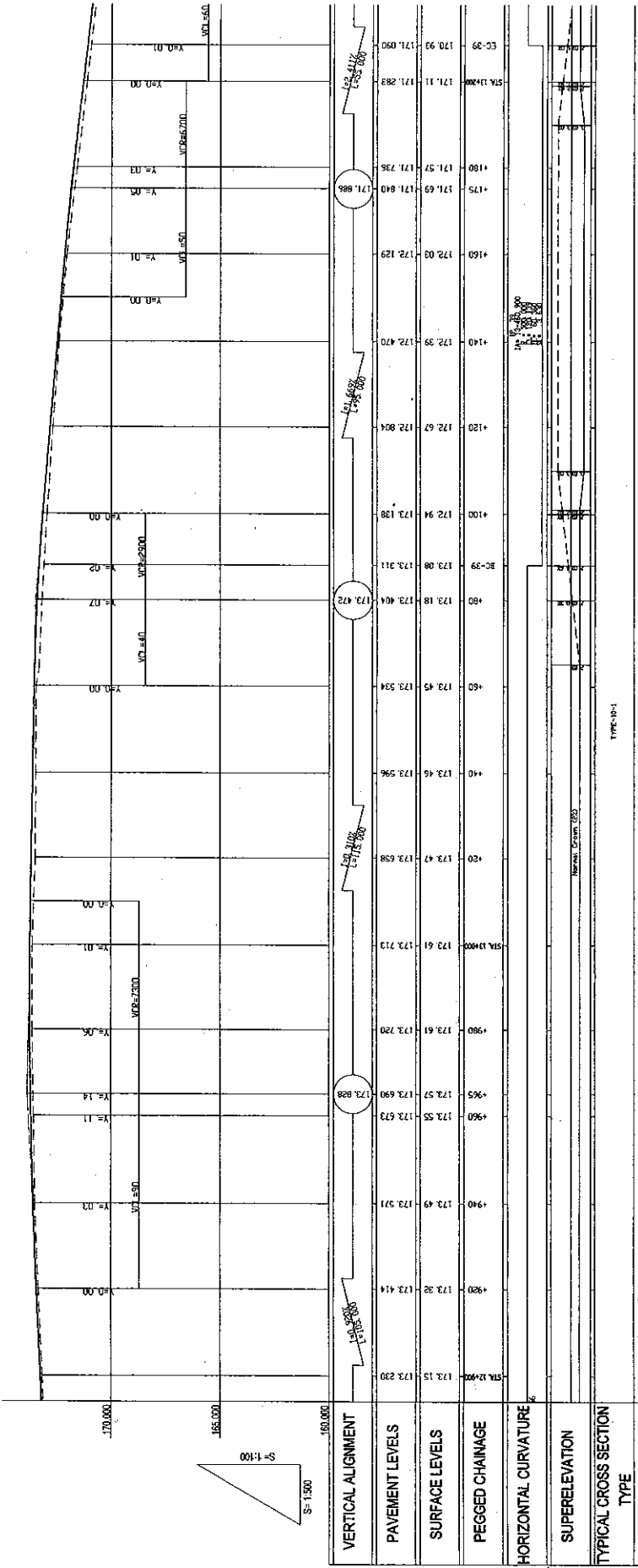
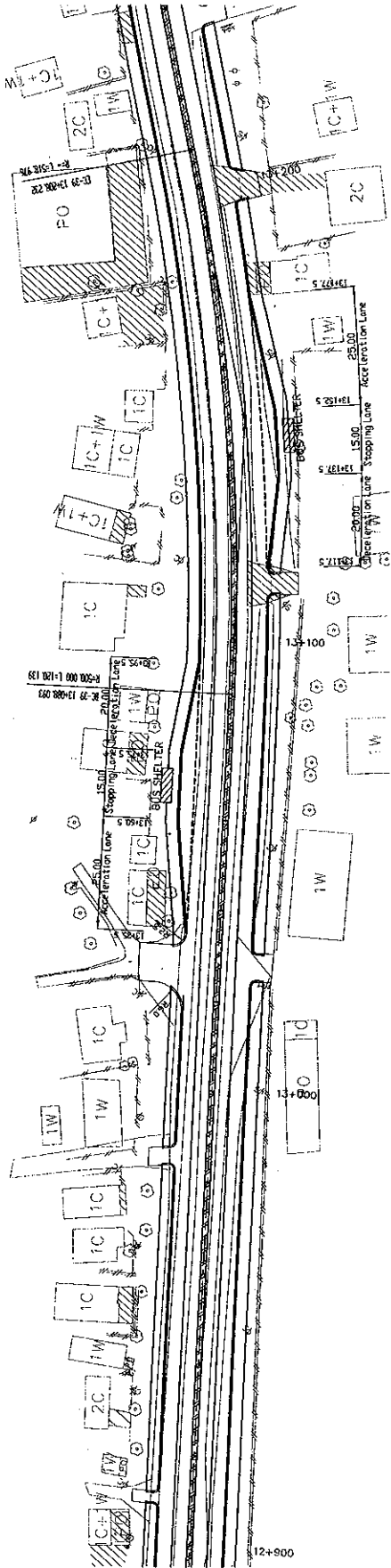
PLAN AND PROFILE
(STA. 12+680 - STA. 12+900)

SCALE: H=1:500
V=1:100

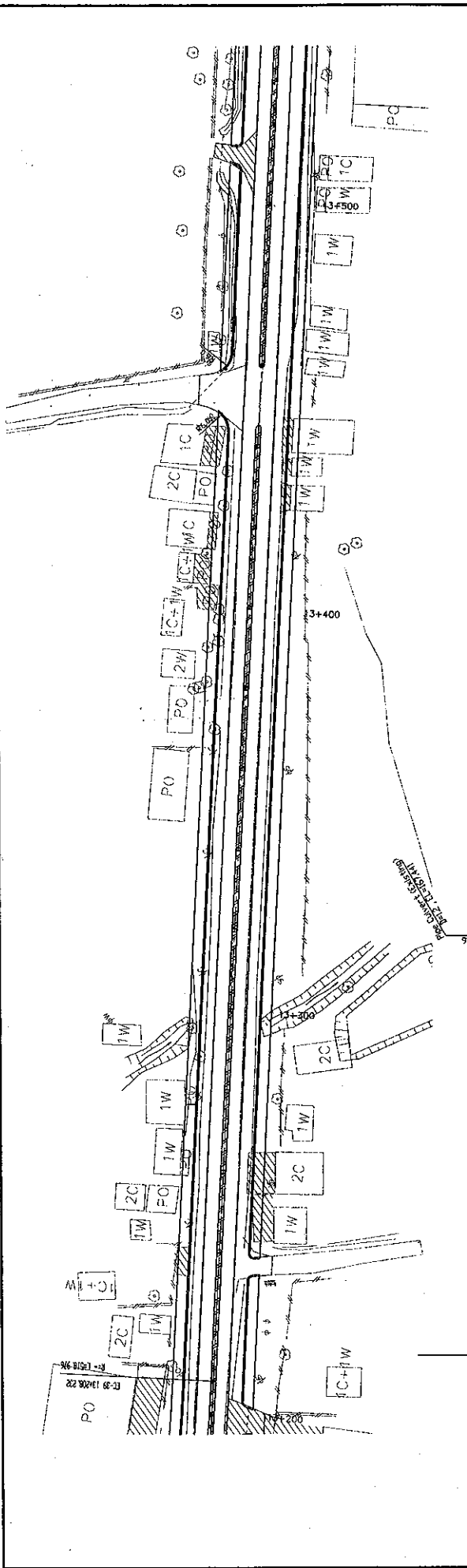
DRAWING NO: PL-43

REVISION: L=594.756

TYPE: 10-1

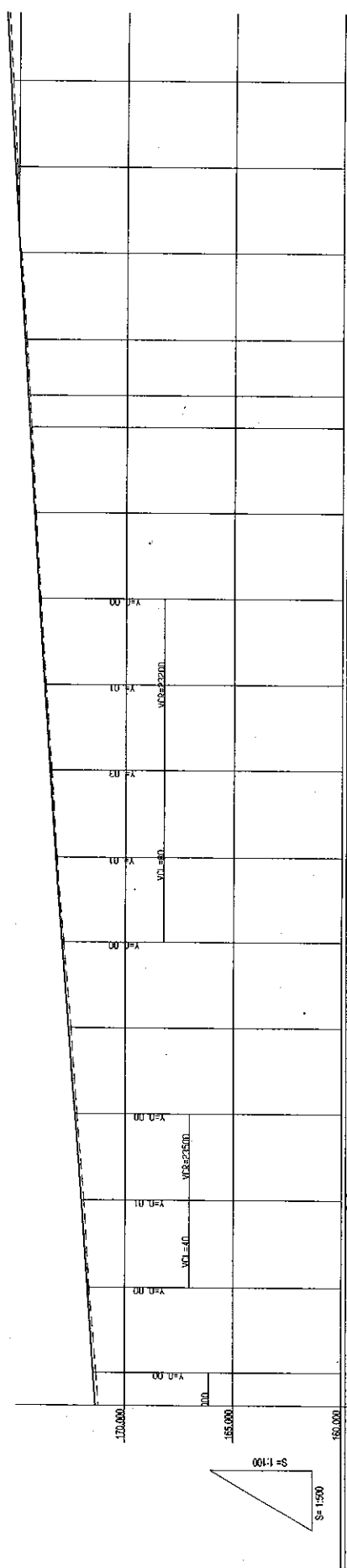
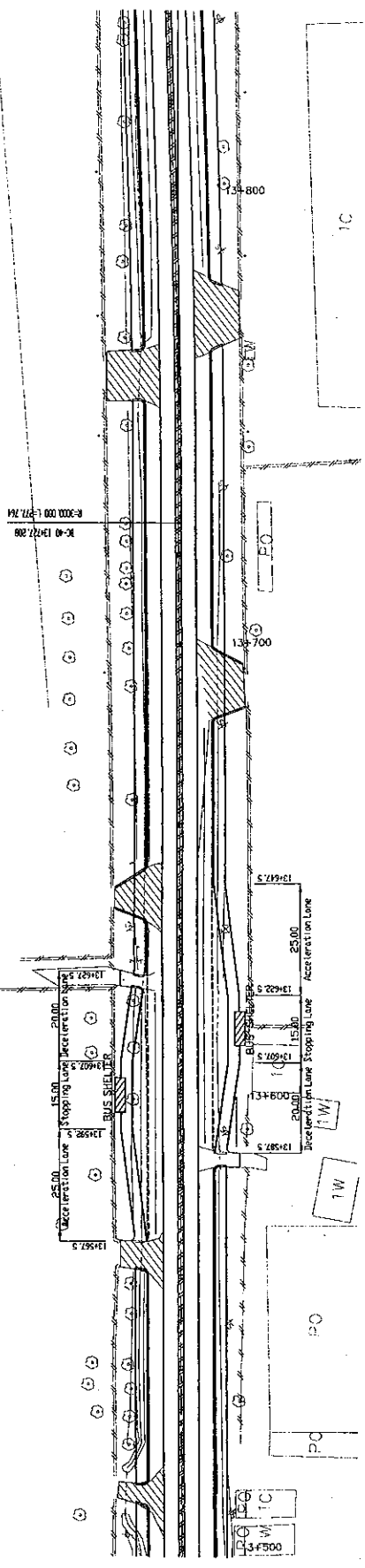


ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	PLAN AND PROFILE (STA 12+900 - STA. 13+200)	DRAWING NO:	PL-44
			SCALE:	H=1:500 V=1:100		Rv



Vertical Alignment	Station	Surface Level	Pavement Level	Pegged Chainage	Horizontal Curvature	Superlevation	Typical Cross Section Type
VC=518.95	171.83	171.283	171.090	171.090			
	171.01	171.163	170.931	170.931			
	170.71	170.831	170.508	170.508			
	170.12	170.244	170.039	170.039			
	169.96	170.038	169.797	169.797			
	169.27	169.891	169.640	169.640			
	169.00	169.797	169.511	169.511			
	169.00	169.640	169.277	169.277			
	169.00	169.511	169.000	169.000			
	169.00	169.399	170.076	170.076			
	170.13	170.269	170.511	170.511			
	170.40	170.511	170.668	170.668			
	170.58	170.668	170.819	170.819			
	170.68	170.819	171.090	171.090			
	170.93	171.090	171.283	171.283			
	171.11	171.283	171.480	171.480			
	170.93	171.090	170.819	170.819			
	170.68	170.819	170.668	170.668			
	170.58	170.668	170.511	170.511			
	170.40	170.511	170.269	170.269			
	170.13	170.269	170.076	170.076			
	169.27	169.902	169.640	169.640			
	169.00	169.797	169.511	169.511			
	169.00	169.640	169.399	169.399			
	169.00	169.511	169.277	169.277			
	169.00	169.399	169.277	169.277			
	169.00	169.277	169.165	169.165			
	169.00	169.165	169.053	169.053			
	170.32	171.455	171.830	171.830			

DRAWING NO: **PL-45**
 SCALE: H=1:500, V=1:100
 TITLE: PLAN AND PROFILE (STA. 13+200 - STA. 13+500)
 JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO. LTD
 BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
 ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC
 STA. 13+200 - STA. 13+500
 L=518.95
 TYPE: 1P-1



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION
171.459	171.55	171.227	171.32			
171.999	171.89	172.007	172.21			
172.305	172.21	172.305	172.21			
172.511	172.50	172.611	172.51			
172.917	172.89	172.917	172.92			
173.214	173.16	173.214	173.16			
173.494	173.41	173.494	173.41			
173.757	173.69	173.757	173.69			
174.003	173.96	174.003	173.96			
174.240	174.17	174.240	174.17			
174.477	174.39	174.477	174.39			
174.564	174.47	174.564	174.47			
174.714	174.63	174.714	174.63			
174.951	174.87	174.951	174.87			
175.187	175.09	175.187	175.09			
175.424	175.31	175.424	175.31			

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

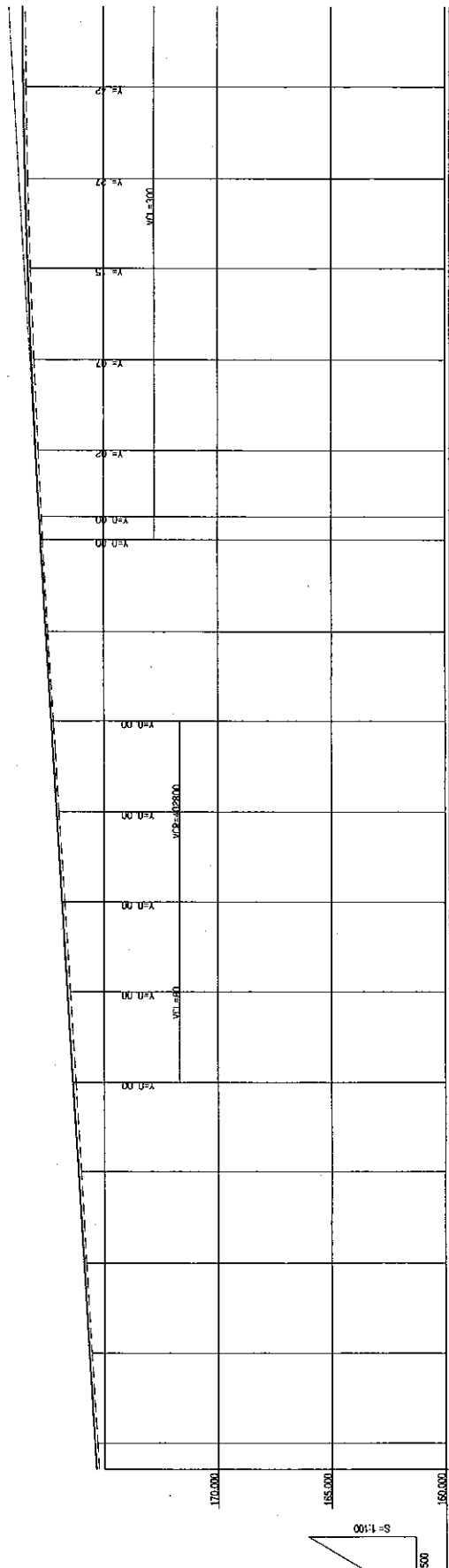
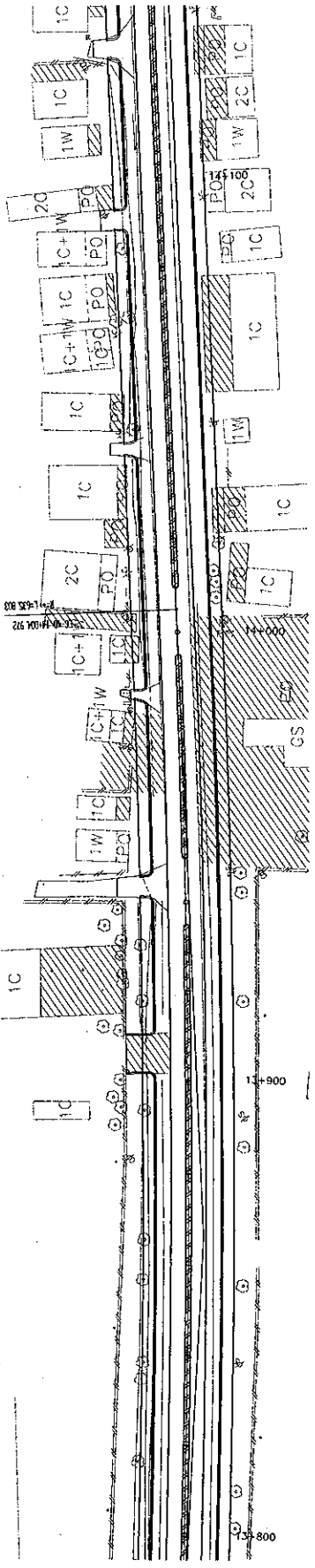
JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE
 (STA. 13+500 - STA. 13+800)

SCALE: H=1:500
 V=1:100

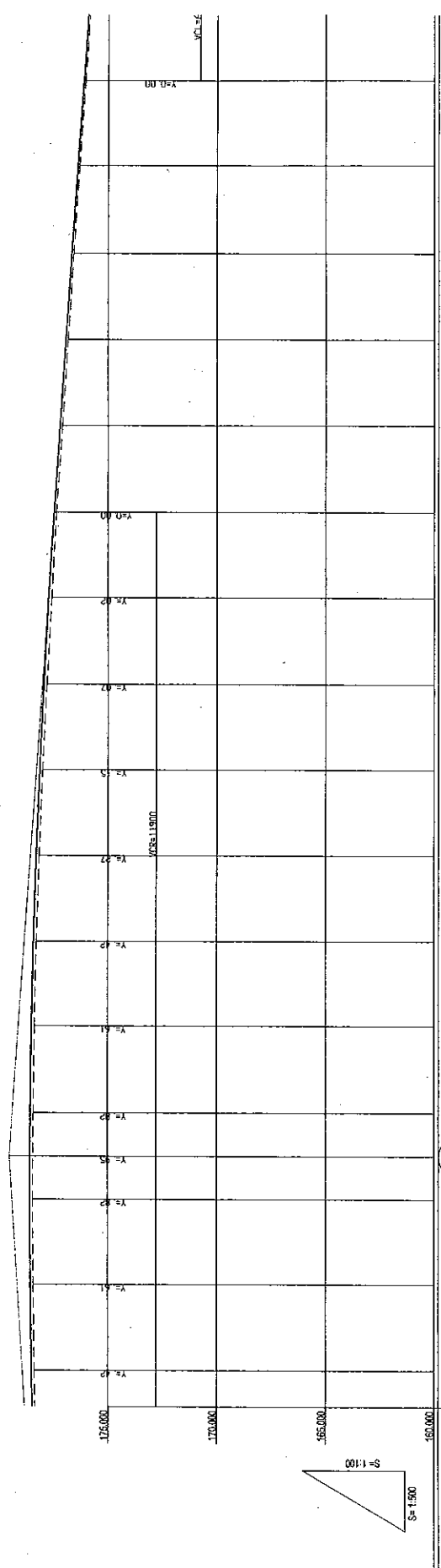
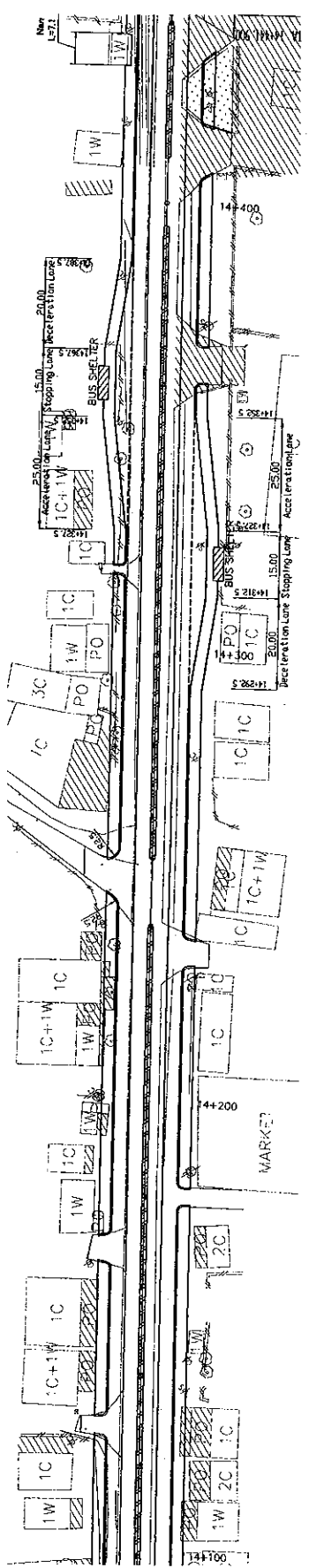
DRAWING No: PL-46

Rev: _____



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
STA 14+00	175.31	175.424				
+80	175.31	175.598				
+840	176.02	176.135				
+880	176.24	176.372				
+900	176.48	176.609				
+920	176.72	176.846				
+940	176.96	177.078				
+960	177.21	177.312				
+980	177.46	177.545				
STA 14+00	177.69	177.778				
EC-40	177.74	177.836				
+20	177.88	177.994				
+40	178.06	178.176				
+60	178.21	178.283				
+80	178.32	178.440				
STA 14+100	178.39	178.522				

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE: PLAN AND PROFILE (STA. B+800 - STA. B+100)	SCALE: H=1:500 V=1:100	DRAWING NO: PL-47
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VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
	176.04	176.04	176.125			
	176.32	176.32	176.397			
	176.58	176.58	176.659			
	176.84	176.84	176.941			
	177.10	177.10	177.213			
	177.38	177.38	177.485			
	177.59	177.59	177.740			
	177.82	177.82	177.962			
	178.02	178.02	178.150			
	178.16	178.16	178.304			
	178.29	178.29	178.424			
	178.38	178.38	178.511			
	178.43	178.43	178.564			
	178.45	178.45	178.578			
	178.47	178.47	178.584			
	178.44	178.44	178.570			
	178.39	178.39	178.522			

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

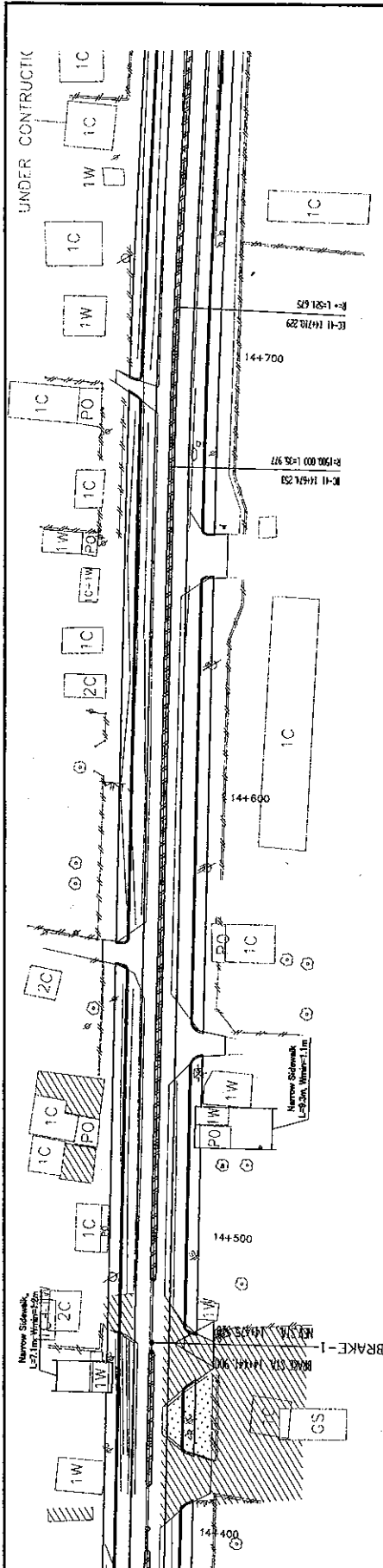
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE (STA. 14+100 - STA. 14+400)

SCALE: H=1:500 V=1:100

DRAWING No: PL-48

RV



BRIDGE OVER
NARROW RIVER



VERTICAL ALIGNMENT	STATION	GROUND ELEVATION (m)	PROPOSED ELEVATION (m)
	175.000		
	170.000		
	165.000		
	175.717		
	175.720		
	175.723		
	175.726		
	175.729		
	175.732		
	175.735		
	175.738		
	175.741		
	175.744		
	175.747		
	175.750		
	175.753		
	175.756		
	175.759		
	175.762		
	175.765		
	175.768		
	175.771		
	175.774		
	175.777		
	175.780		
	175.783		
	175.786		
	175.789		
	175.792		
	175.795		
	175.798		
	175.801		
	175.804		
	175.807		
	175.810		
	175.813		
	175.816		
	175.819		
	175.822		
	175.825		
	175.828		
	175.831		
	175.834		
	175.837		
	175.840		
	175.843		
	175.846		
	175.849		
	175.852		
	175.855		
	175.858		
	175.861		
	175.864		
	175.867		
	175.870		
	175.873		
	175.876		
	175.879		
	175.882		
	175.885		
	175.888		
	175.891		
	175.894		
	175.897		
	175.900		
	175.903		
	175.906		
	175.909		
	175.912		
	175.915		
	175.918		
	175.921		
	175.924		
	175.927		
	175.930		
	175.933		
	175.936		
	175.939		
	175.942		
	175.945		
	175.948		
	175.951		
	175.954		
	175.957		
	175.960		
	175.963		
	175.966		
	175.969		
	175.972		
	175.975		
	175.978		
	175.981		
	175.984		
	175.987		
	175.990		
	175.993		
	175.996		
	175.999		
	176.002		
	176.005		
	176.008		
	176.011		
	176.014		
	176.017		
	176.020		
	176.023		
	176.026		
	176.029		
	176.032		
	176.035		
	176.038		
	176.041		
	176.044		
	176.047		
	176.050		
	176.053		
	176.056		
	176.059		
	176.062		
	176.065		
	176.068		
	176.071		
	176.074		
	176.077		
	176.080		
	176.083		
	176.086		
	176.089		
	176.092		
	176.095		
	176.098		
	176.101		
	176.104		
	176.107		
	176.110		
	176.113		
	176.116		
	176.119		
	176.122		
	176.125		
	176.128		
	176.131		
	176.134		
	176.137		
	176.140		
	176.143		
	176.146		
	176.149		
	176.152		
	176.155		
	176.158		
	176.161		
	176.164		
	176.167		
	176.170		
	176.173		
	176.176		
	176.179		
	176.182		
	176.185		
	176.188		
	176.191		
	176.194		
	176.197		
	176.200		
	176.203		
	176.206		
	176.209		
	176.212		
	176.215		

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
LAO PEOPLE'S DEMOCRATIC REPUBLIC

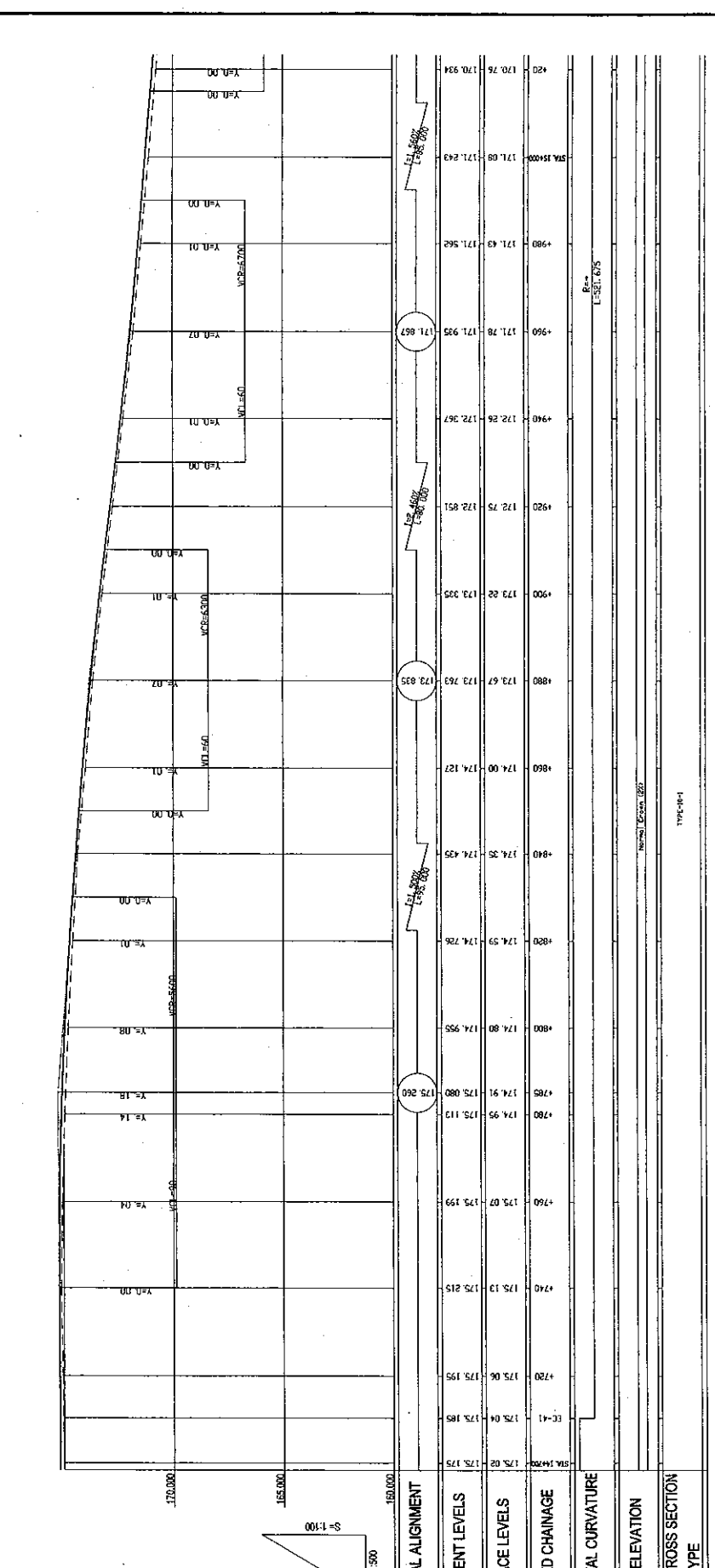
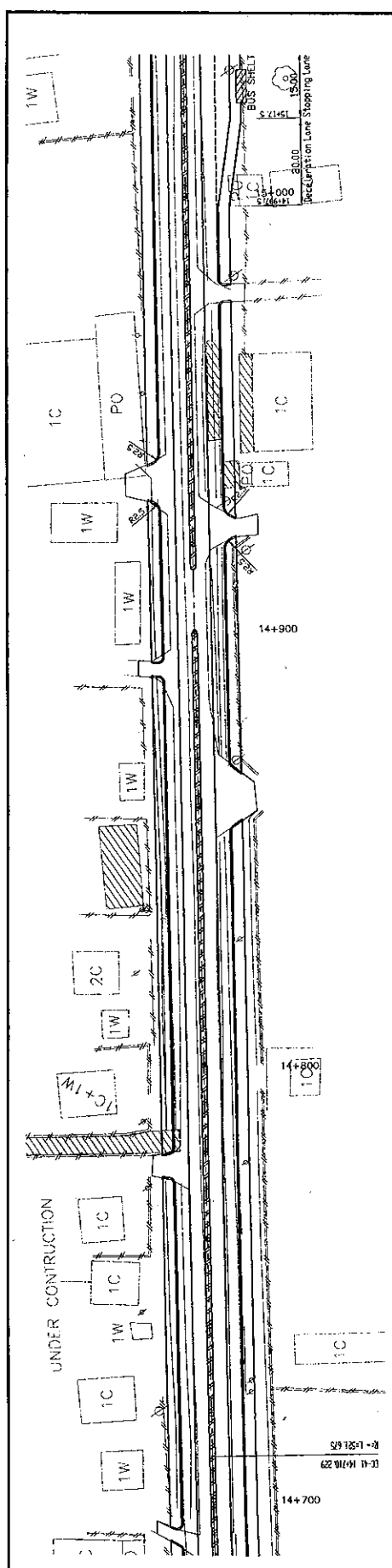
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO. LTD

PLAN AND PROFILE
(STA. 14+400 - STA. 14+700)

SCALE:
H=1:500
V=1:100

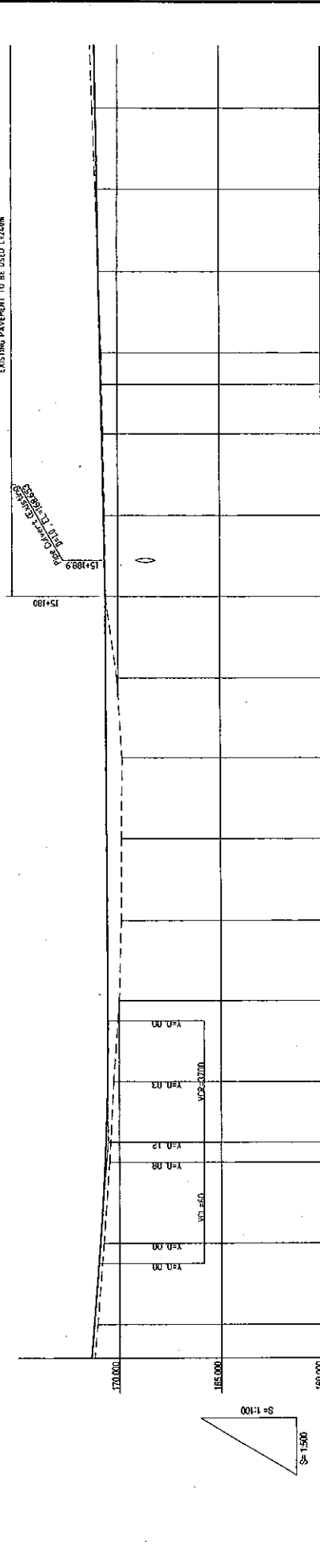
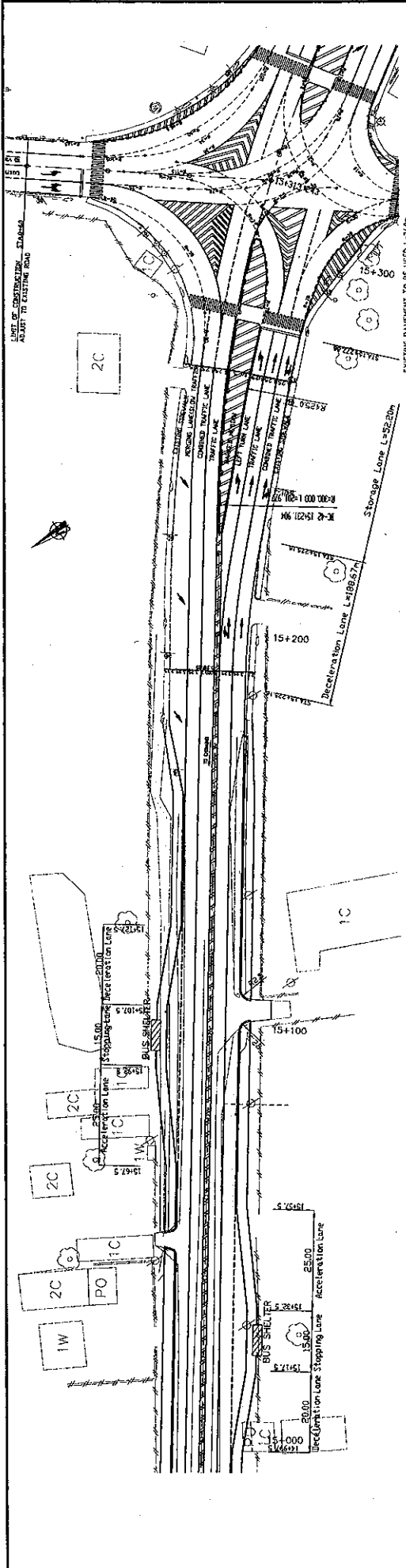
DRAWING NO:
PL-49

Rev.



TYPE	VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHANGAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION
STA. 14+700	175.175	175.04	175.185	175.02			
+720	175.06	175.195	175.07	175.199			
+760	175.113	175.113	175.07	175.199			
+780	175.113	175.113	175.07	175.199			
+765	175.080	175.080	175.07	175.199			
+800	174.90	174.955	174.80	174.955			
+820	174.59	174.726	174.53	174.726			
+840	174.35	174.435	174.28	174.435			
+860	174.00	174.127	173.93	174.127			
+880	173.67	173.263	173.58	173.263			
+900	173.28	173.235	173.33	173.235			
+920	172.75	172.851	172.75	172.851			
+940	172.26	172.367	172.26	172.367			
+960	171.76	171.925	171.76	171.925			
+980	171.43	171.562	171.43	171.562			
STA. 15+000	171.08	171.243	171.08	171.243			
+20	170.76	170.934	170.76	170.934			

DRAWING NO: PL-50
 SCALE: H=1:500, V=1:100
 TITLE: PLAN AND PROFILE
 (STA. 14+700 - STA. 15+000)
 PROJECT: JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO. LTD
 BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC
 ROADS DEPARTMENT, MINISTRY OF COMMUNICATION
 TRANSPORT, POST AND CONSTRUCTION
 LAO PEOPLE'S DEMOCRATIC REPUBLIC



VERTICAL ALIGNMENT	171.243	171.08	170.934	170.76	170.703	170.669	170.590	170.526	170.574	170.586	170.598	170.622	170.697	170.771	170.816	170.846	170.920	170.995	171.069	
PAVEMENT LEVELS																				
SURFACE LEVELS																				
PEGGED CHAINAGE																				
HORIZONTAL CURVATURE																				
SUPERELEVATION																				
TYPICAL CROSS SECTION TYPE	EXISTING PAVEMENT																			

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE
 IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
 LAO PEOPLE'S DEMOCRATIC REPUBLIC

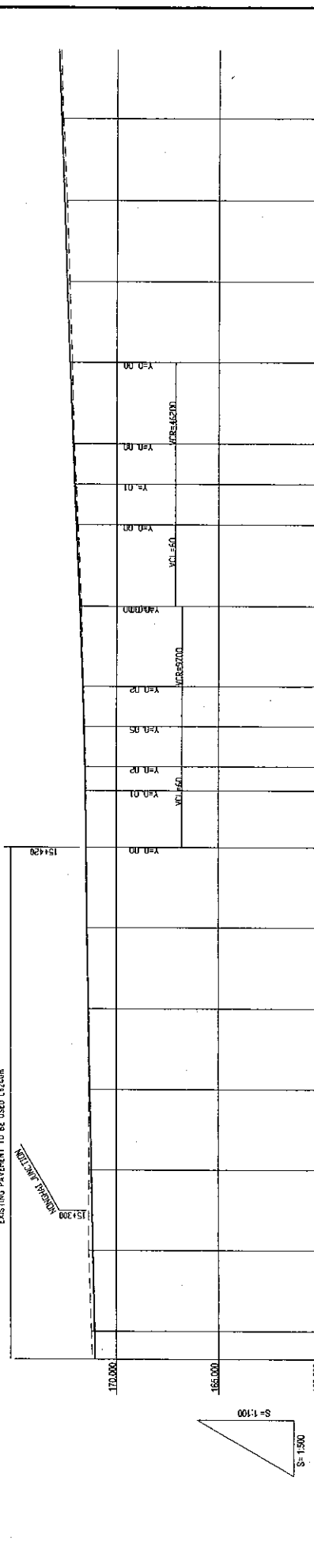
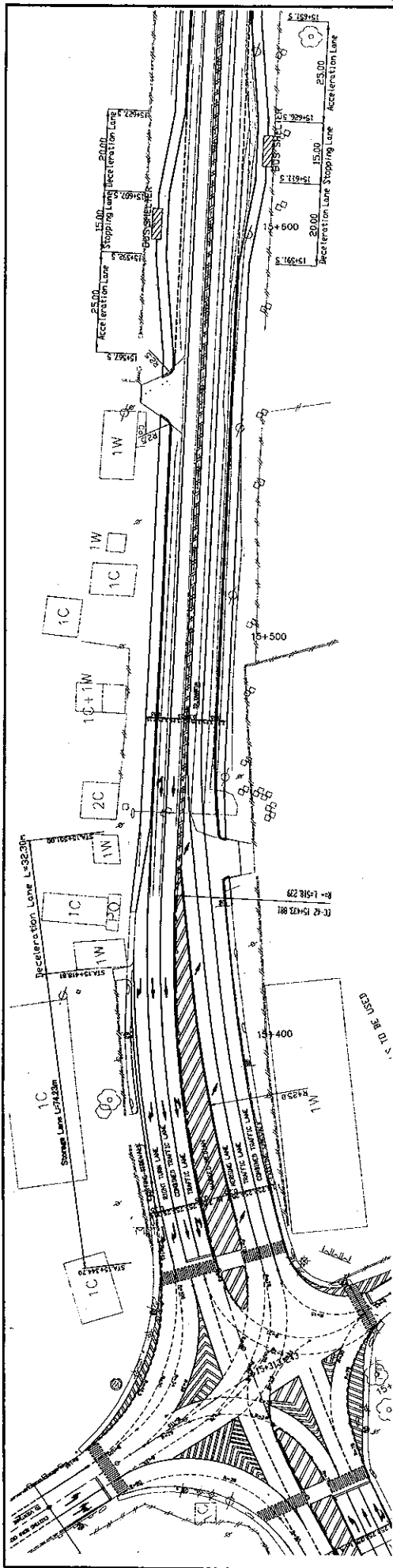
JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTT ENGINEERING INTERNATIONAL CO. LTD

TITLE:

SCALE:
 H=1:500
 V=1:100

DRAWING NO:
PL-51

PLAN AND PROFILE
 (STA. 15+000 - STA. 15+300)



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000	171.44	171.44	171.442			EXISTING PAVEMENT
155.000	171.39	171.39	171.367			
160.000	171.36	171.36	171.293			
	171.34	171.34	171.218			
	171.36	171.36	171.144			
	171.22	171.22	171.069			
	171.49	171.49	171.490			
	171.50	171.50	171.594			
	171.51	171.51	171.559			
	171.57	171.57	171.608	171.562		
	171.63	171.63	171.669			
	171.73	171.73	171.820			
	171.90	171.90	171.988			
	171.99	171.99	172.068	172.078		
	172.09	172.09	172.147			
	172.19	172.19	172.237			
	172.28	172.28	172.443			
	172.46	172.46	172.589			
	172.65	172.65	172.735			

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

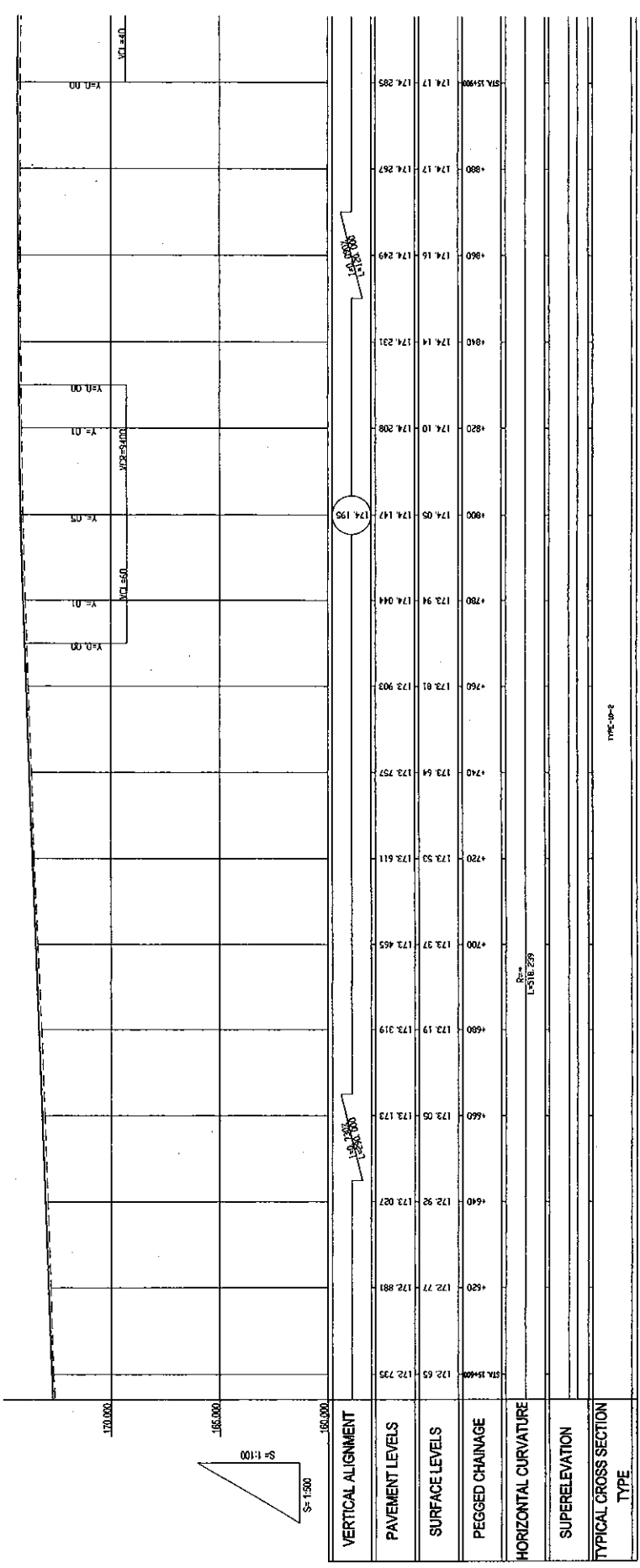
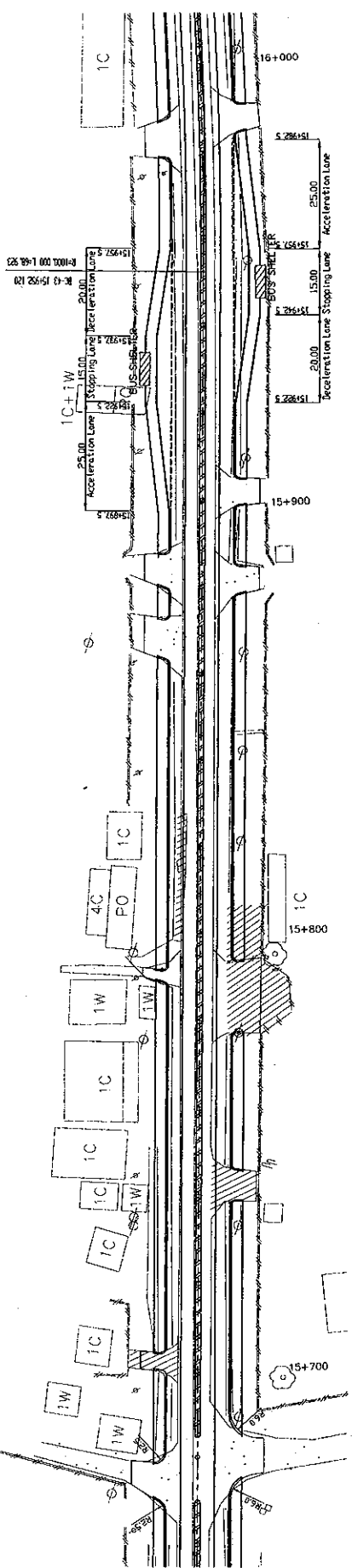
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD

PLAN AND PROFILE (STA 15+300 - STA 15+600)

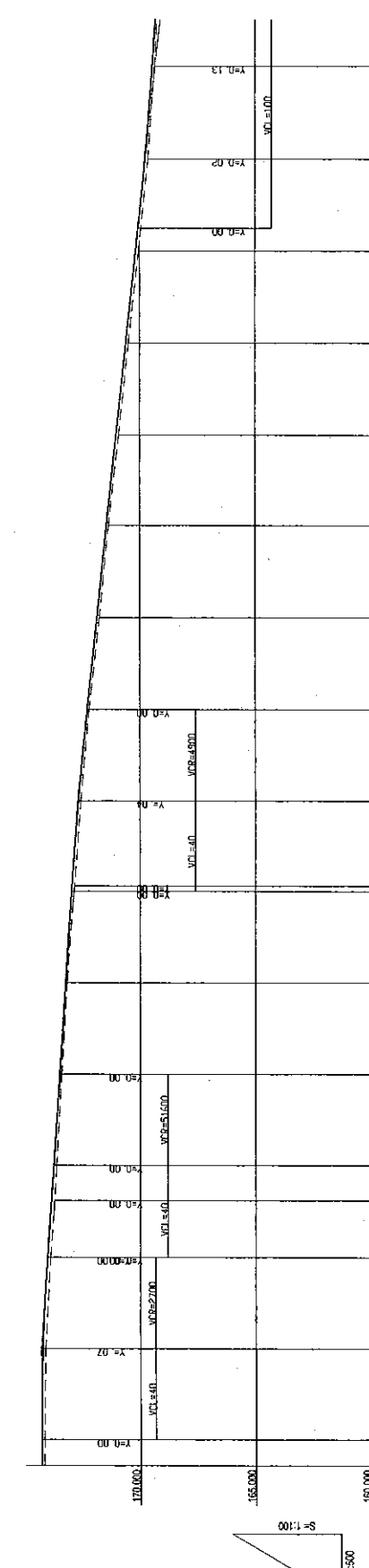
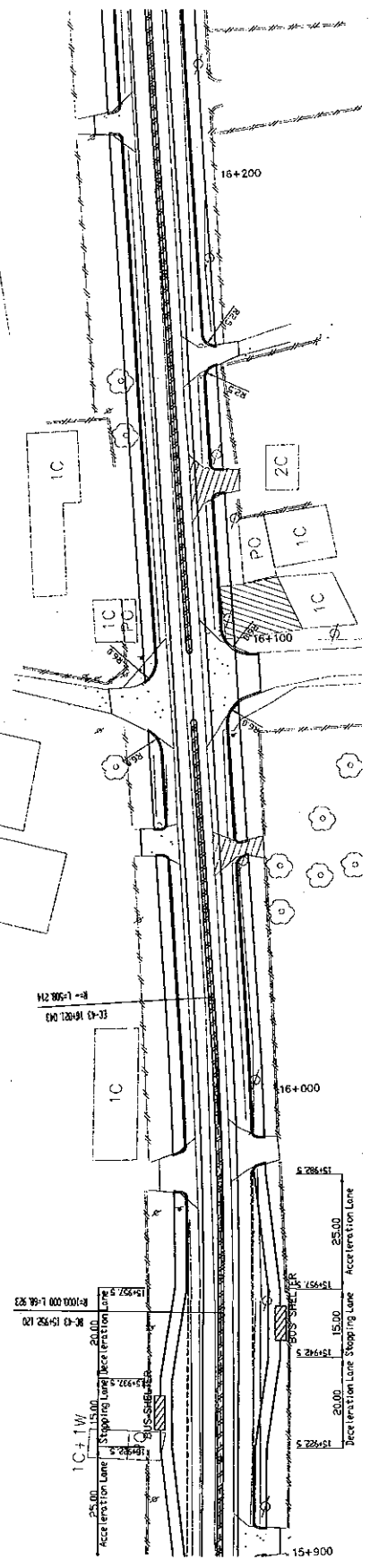
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DRAWING NO: PL-52

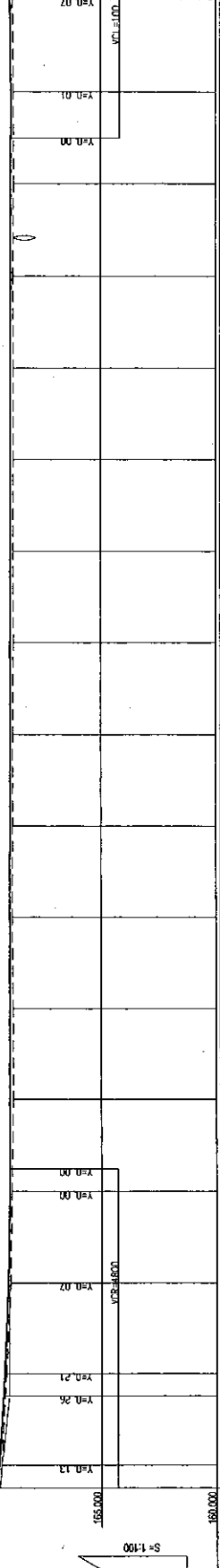
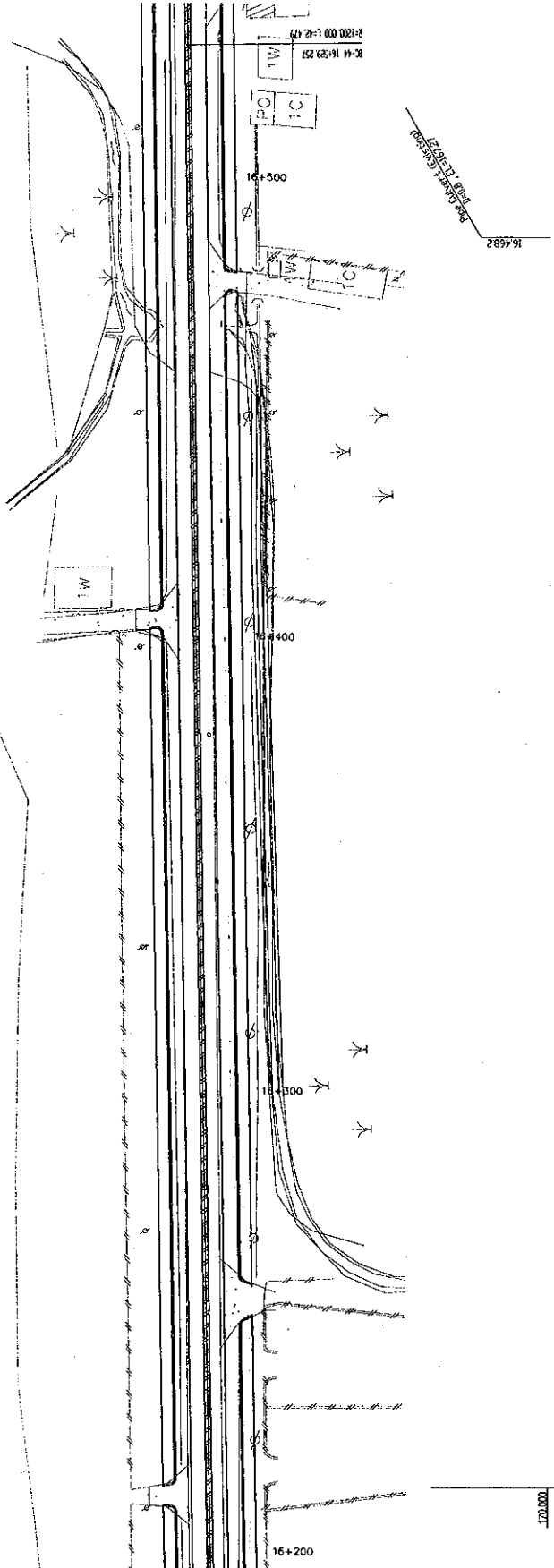
TYPE: TYPE-B-2



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA. 15+000 - STA. 15+900)
			SCALE:	H=1:500 V=1:100
			DRAWING NO:	PL-53

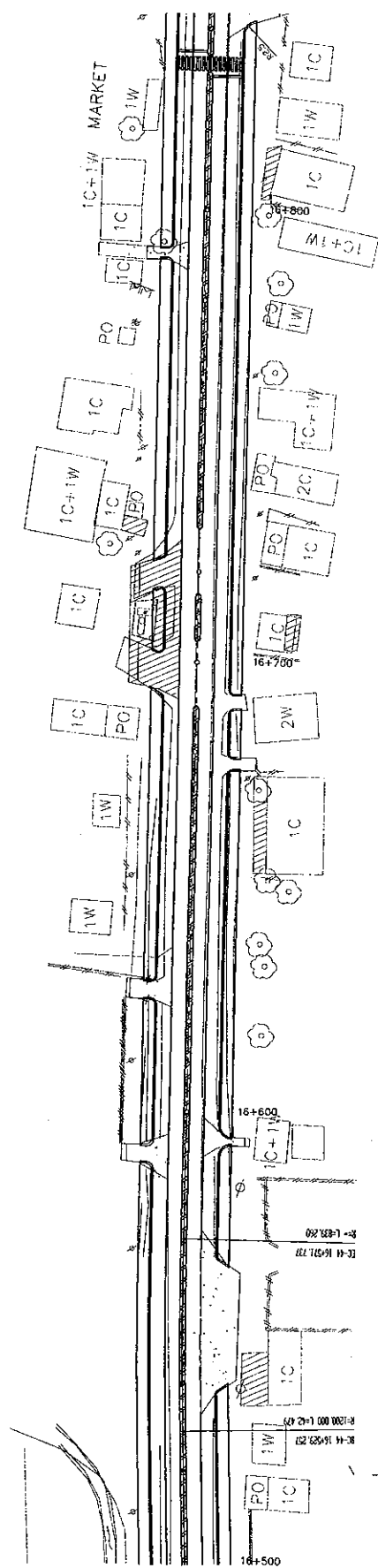


VERTICAL ALIGNMENT	+900		+940		+960		+980		+1000		+1020		+1040		+1060		+1080		+1100	
STA. 15+900	174.17	174.230	173.96	174.029	173.72	173.860	173.41	173.492	172.91	171.864	171.016	170.05	170.168	169.64	169.767	169.35	169.447	169.00	169.00	169.00
PAVEMENT LEVELS	174.17	174.230	173.96	174.029	173.72	173.860	173.41	173.492	172.91	171.864	171.016	170.05	170.168	169.64	169.767	169.35	169.447	169.00	169.00	169.00
SURFACE LEVELS	174.17	174.230	173.96	174.029	173.72	173.860	173.41	173.492	172.91	171.864	171.016	170.05	170.168	169.64	169.767	169.35	169.447	169.00	169.00	169.00
PEGGED CHAINAGE	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43	BC-43
HORIZONTAL CURVATURE																				
SUPERELEVATION																				
TYPICAL CROSS SECTION	TYPE-B-2																			



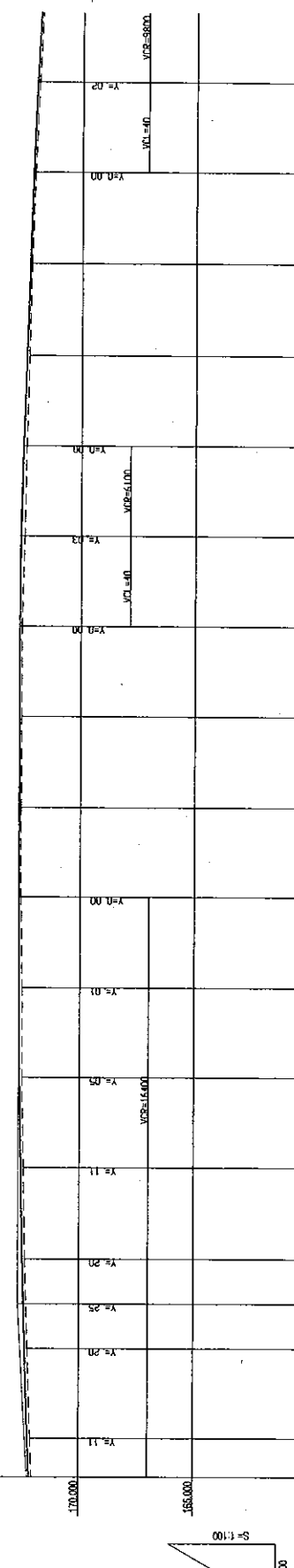
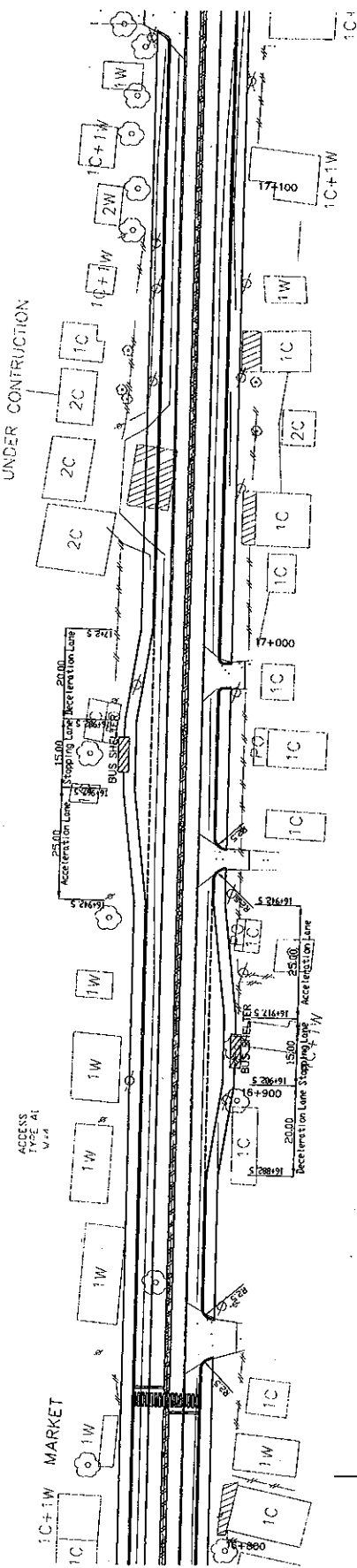
VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHANG	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
STA 16+200	169.25	169.47				
+215	169.18	169.262	169.002			
+220	169.13	169.211				
+230	168.93	168.976				
+240	168.95	169.057				
+260	168.99	169.387				
+280	168.83	168.976				
+300	168.82	168.968				
+320	168.95	168.960				
+340	168.84	168.952				
+360	168.84	168.944				
+380	168.73	168.936				
+400	168.81	168.928				
+420	168.79	168.920				
+440	168.80	168.912				
+460	168.81	168.904				
+480	168.77	168.896				
+500	168.79	168.896				
STA 16+500						

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CIT ENGINEERING INTERNATIONAL CO. LTD	TITLE	PLAN AND PROFILE (STA. 16+200 - STA. 16+500)	SCALE: H=1:500 V=1:100	DRAWING NO: PL-55	REV.
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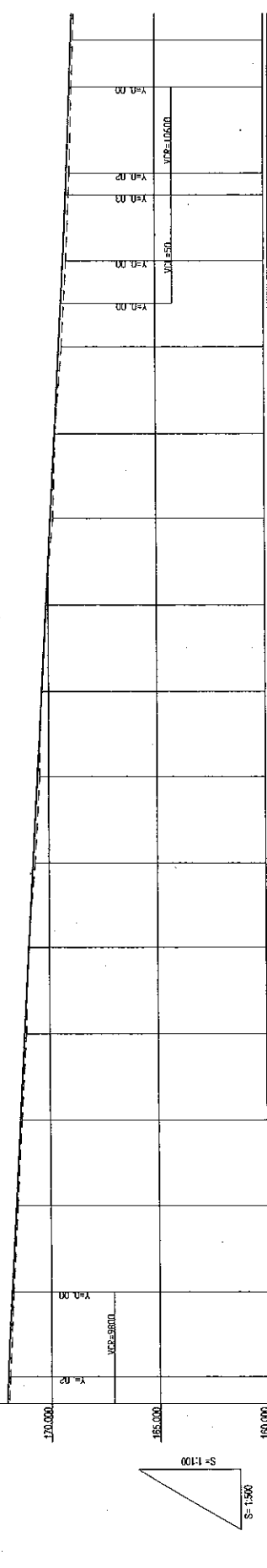
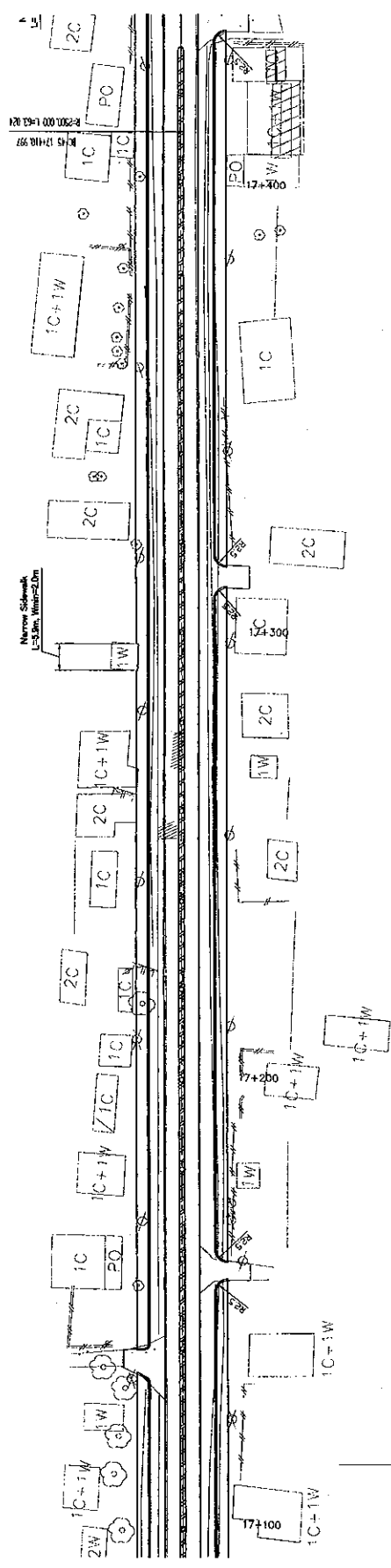
VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000						
155.000						
180.000						
171.00						
171.01		168.79	168.986			
171.02		169.16	169.251			
171.03		169.26	169.389			
171.04		169.38	169.496			
171.05		169.56	169.796			
171.06		169.98	170.104			
171.07		170.33	170.412			
171.08		170.61	170.709			
171.09		170.89	170.994			
171.10		171.13	171.237			
171.11		171.36	171.468			
171.12		171.61	171.688			
171.13		171.79	171.896			
171.14		171.98	172.079			
171.15		172.12	172.238			

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	PLAN AND PROFILE (STA. 16+500 - STA. 16+800)	DRAWING No:	PL-56
			SCALE:	H=1:500 V=1:100		



VERTICAL ALIGNMENT	172.678	172.772	172.830	172.882	172.918	172.948	172.972	172.998
PAVEMENT LEVELS	172.45	172.568	172.629	172.666	172.678	172.678	172.678	172.678
SURFACE LEVELS	172.37	172.482	172.537	172.588	172.628	172.654	172.672	172.682
PEGGED CHAINAGE	172.26	172.372	172.430	172.482	172.518	172.548	172.572	172.598
HORIZONTAL CURVATURE								
SUPERELEVATION								
TYPICAL CROSS SECTION TYPE								

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIETIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA. 16+800 - STA. 17+100)
			SCALE:	H=1:500 V=1:100
			DRAWING NO:	PL-57



STATION	VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
17+00	172.018	171.998	171.998	171.998			
17+20	171.51	171.500	171.500	171.500			
17+40	170.97	170.948	170.948	170.948			
17+60	170.41	170.520	170.520	170.520			
17+80	170.33	170.306	170.306	170.306			
18+00	170.12	170.092	170.092	170.092			
18+20	169.75	169.878	169.878	169.878			
18+40	169.64	169.664	169.664	169.664			
18+60	169.22	169.150	169.150	169.150			
18+80	169.10	169.241	169.241	169.241			
19+00	169.97	169.105	169.105	169.105			
19+20	168.93	168.926	168.926	168.926			
19+40	168.76	168.939	168.939	168.939			
19+60	168.976	169.076	169.076	169.076			

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE
LAO PEOPLE'S DEMOCRATIC REPUBLIC

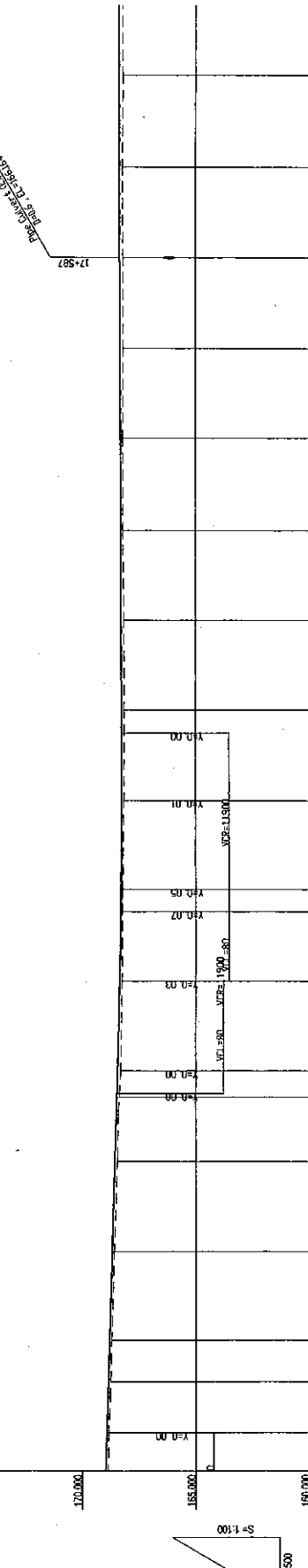
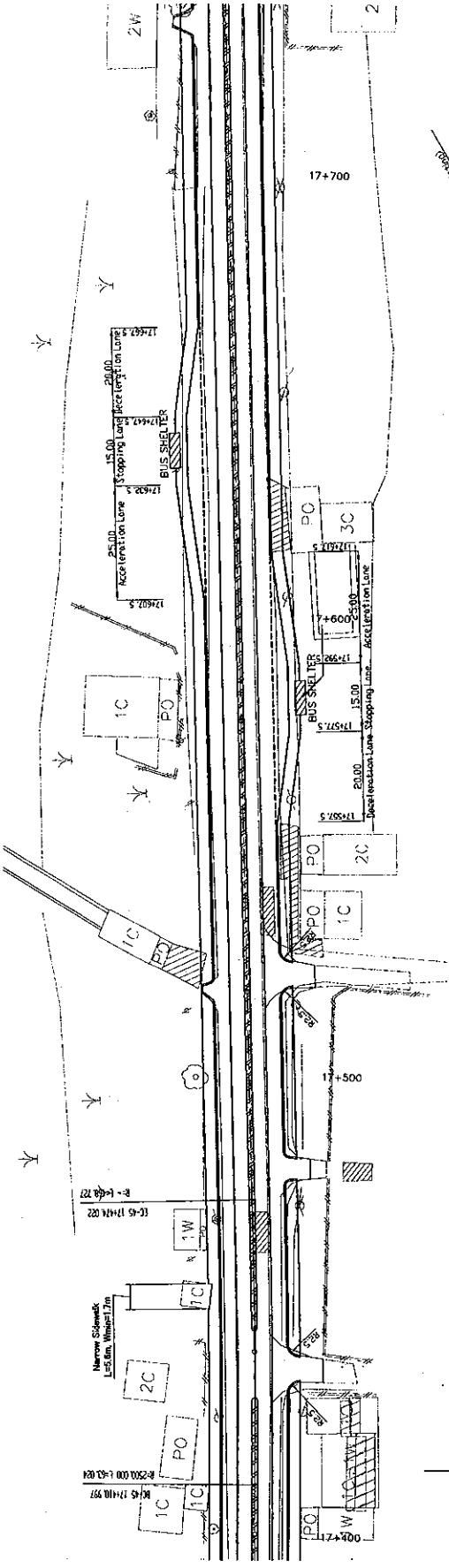
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE: PLAN AND PROFILE
(STA. 17+00 - STA. 17+40)

SCALE: H=1:500
V=1:100

DRAWING NO: PL-58

REV.



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
17+000	168.936	168.936	EC-45	1/100	0	17+000
17+100	168.906	168.906	RC-45	1/100	0	17+100
17+200	168.876	168.876	RC-45	1/100	0	17+200
17+300	168.846	168.846	RC-45	1/100	0	17+300
17+400	168.816	168.816	RC-45	1/100	0	17+400
17+500	168.786	168.786	RC-45	1/100	0	17+500
17+600	168.756	168.756	RC-45	1/100	0	17+600
17+700	168.726	168.726	RC-45	1/100	0	17+700

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

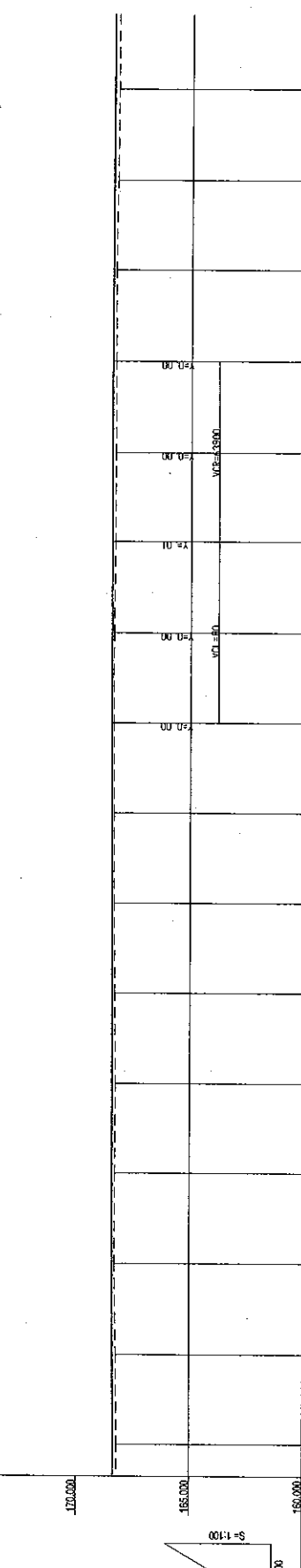
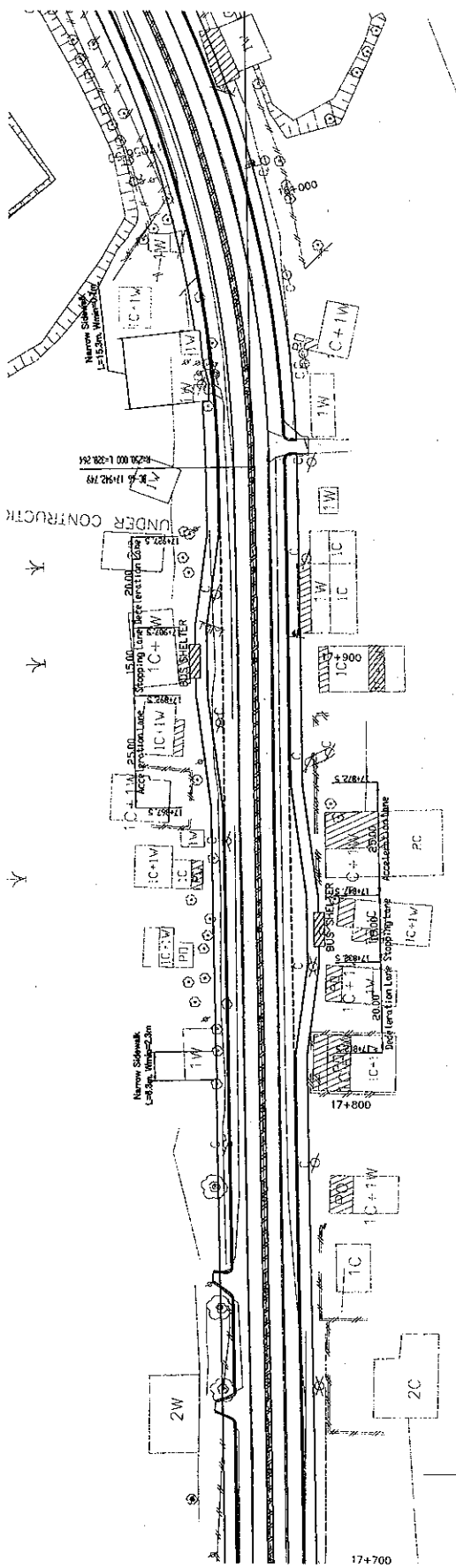
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO, LTD

TITLE: PLAN AND PROFILE (STA. 17+400 - STA. 17+700)

SCALE: H=1:500 V=1:100

DRAWING No: PL-59

REV.



Station	Vertical Curve Data
17+700	IC-1W
17+750	IC-1W
17+800	IC-1W
17+850	IC-1W
17+900	IC-1W
17+950	IC-1W
18+000	IC-1W
18+050	IC-1W
18+100	IC-1W
18+150	IC-1W
18+200	IC-1W
18+250	IC-1W
18+300	IC-1W
18+350	IC-1W
18+400	IC-1W
18+450	IC-1W
18+500	IC-1W
18+550	IC-1W
18+600	IC-1W
18+650	IC-1W
18+700	IC-1W
18+750	IC-1W
18+800	IC-1W
18+850	IC-1W
18+900	IC-1W
18+950	IC-1W
19+000	IC-1W
19+050	IC-1W
19+100	IC-1W
19+150	IC-1W
19+200	IC-1W
19+250	IC-1W
19+300	IC-1W
19+350	IC-1W
19+400	IC-1W
19+450	IC-1W
19+500	IC-1W
19+550	IC-1W
19+600	IC-1W
19+650	IC-1W
19+700	IC-1W
19+750	IC-1W
19+800	IC-1W
19+850	IC-1W
19+900	IC-1W
19+950	IC-1W
20+000	IC-1W

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

BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO. LTD

PLAN AND PROFILE
 (STA. 17+700 - STA. 18+000)

SCALE:
 H=1:500
 V=1:100

DRAWING NO.: PL-60

TYPE: 18-2