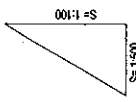
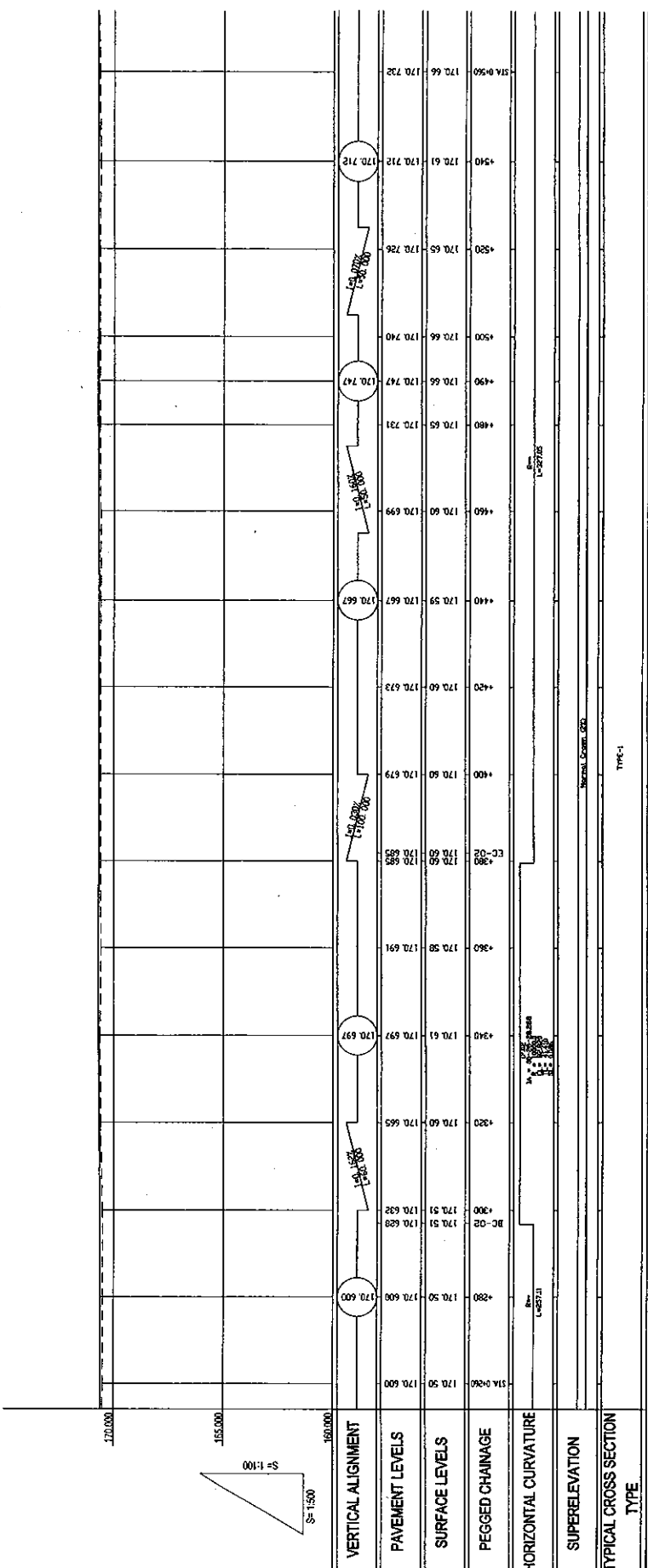
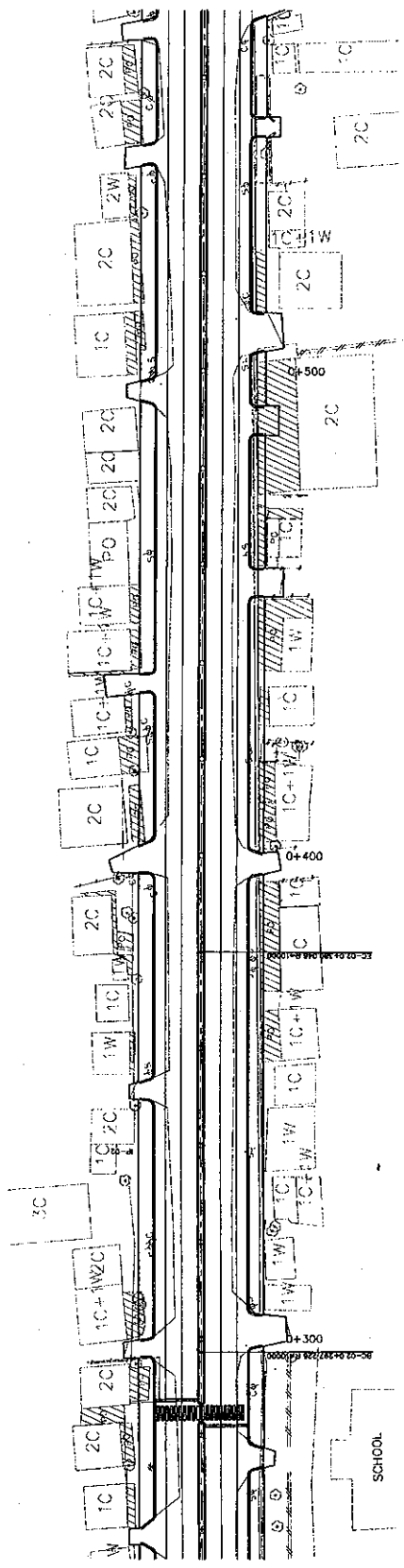
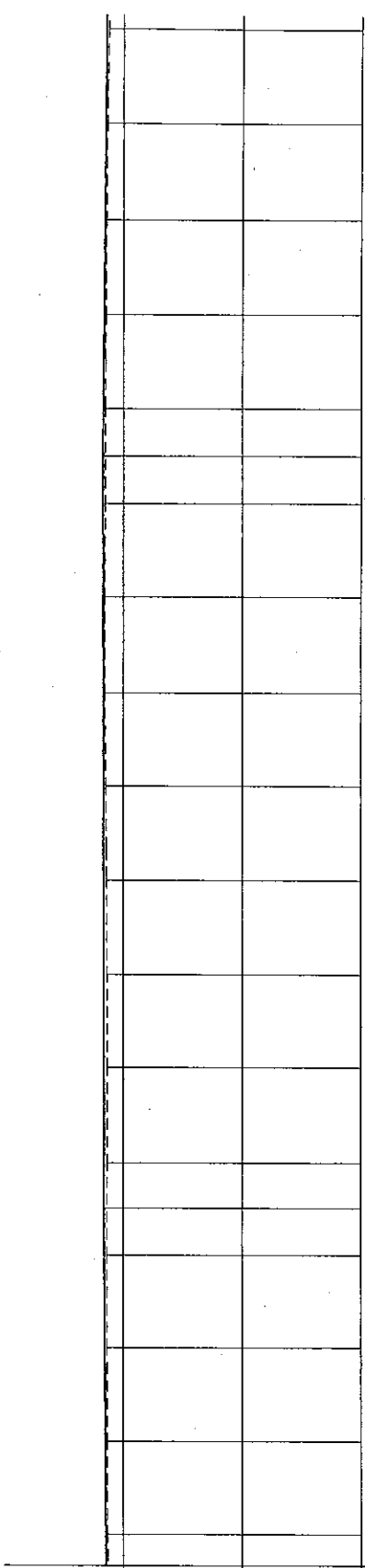
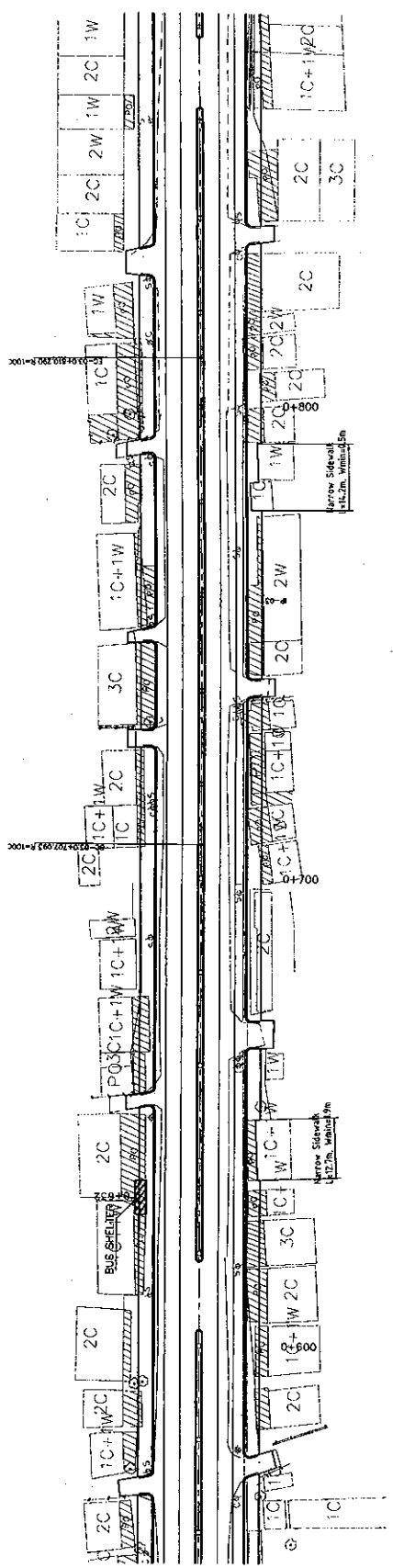


ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA 0+44.5 - STA 0+260)
			SCALE:	H=1:500 V=1:100
			DRAWING No:	PL-01
			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+200 - STA. 0+500)	DRAWING No: <b>PL-02</b>	Rev:
			SCALE:	H=1:500 V=1:100		



VERTICAL ALIGNMENT	170,000	170,020	170,040	170,060	170,080	170,100	170,120	170,140	170,160	170,180	170,200	170,220	170,240	170,260	170,280	170,300
PAVEMENT LEVELS																
SURFACE LEVELS	170.66	170.69	170.72	170.75	170.78	170.81	170.84	170.87	170.90	170.93	170.96	170.99	171.02	171.05	171.08	171.11
PEGGED CHAINAGE	170.66	170.69	170.72	170.75	170.78	170.81	170.84	170.87	170.90	170.93	170.96	170.99	171.02	171.05	171.08	171.11
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

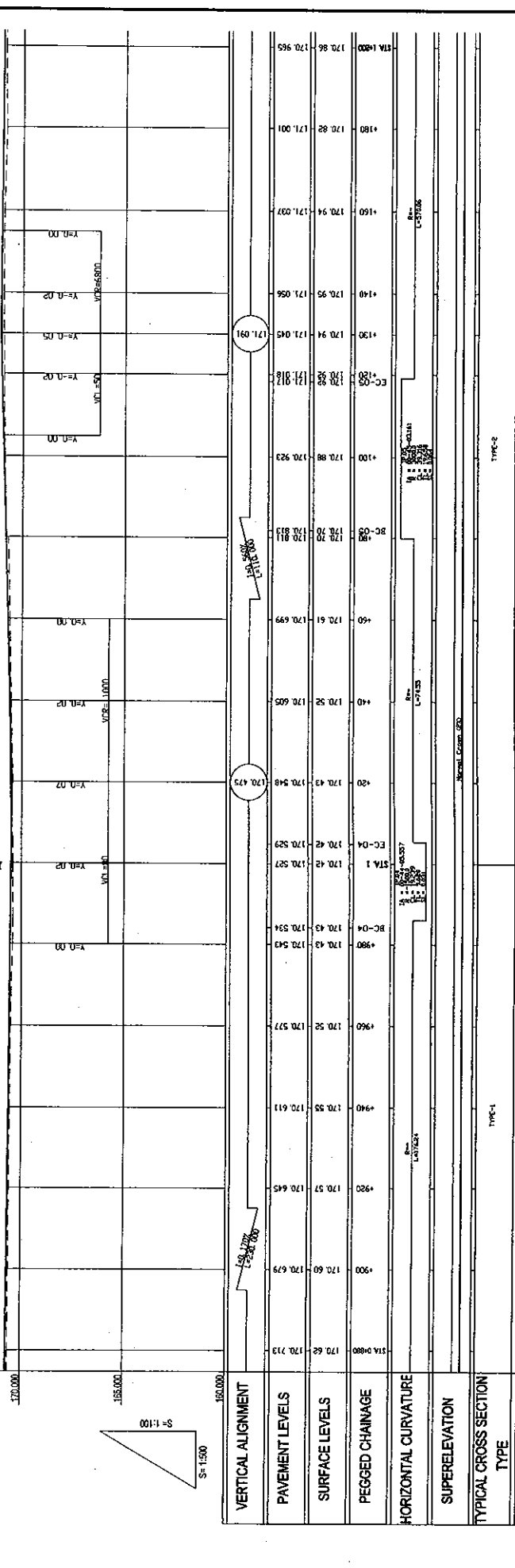
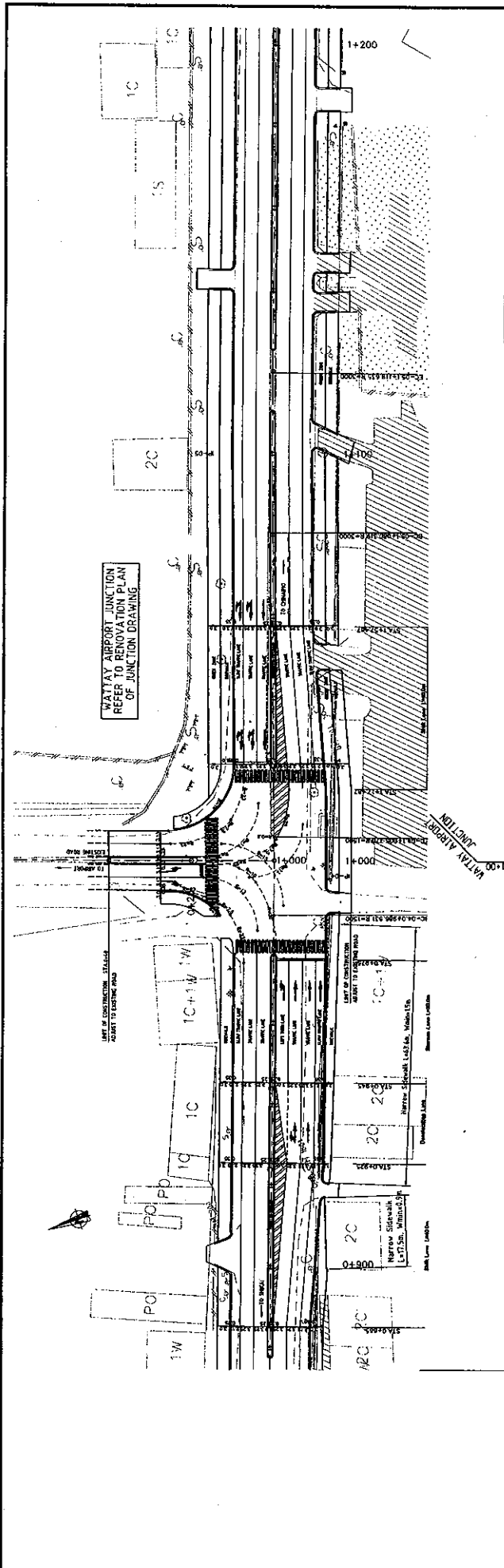
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CTI ENGINEERING INTERNATIONAL CO, LTD

TITLE: PLAN AND PROFILE  
 (STA. 0+500 - STA. 0+800)

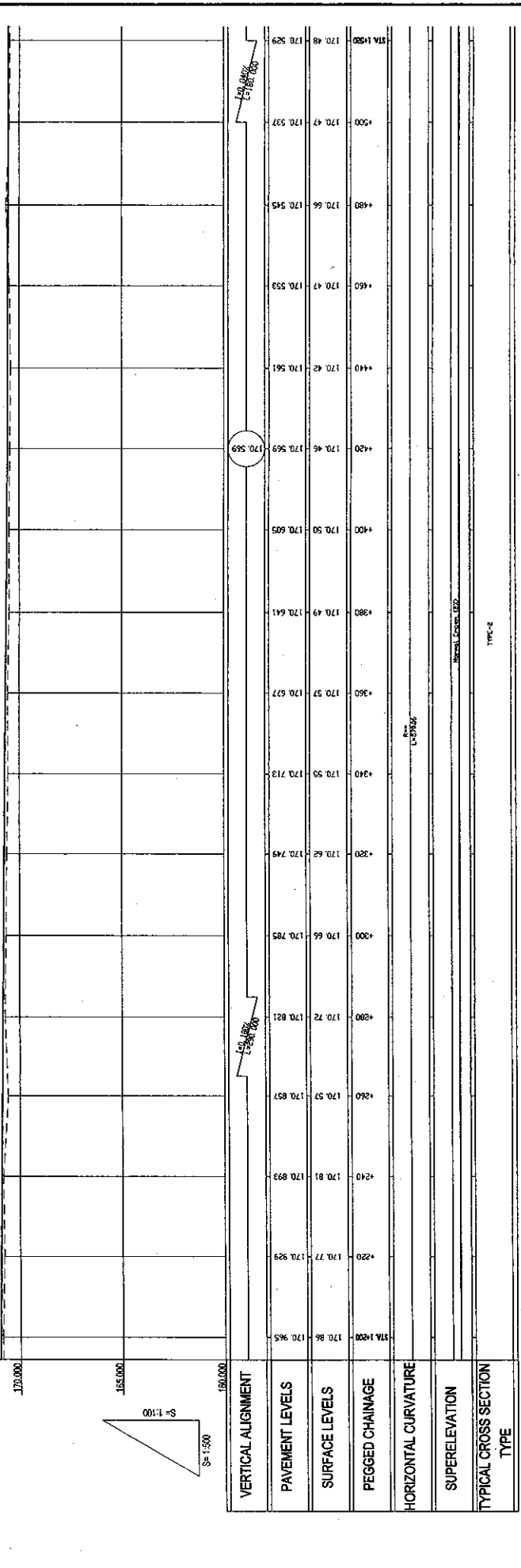
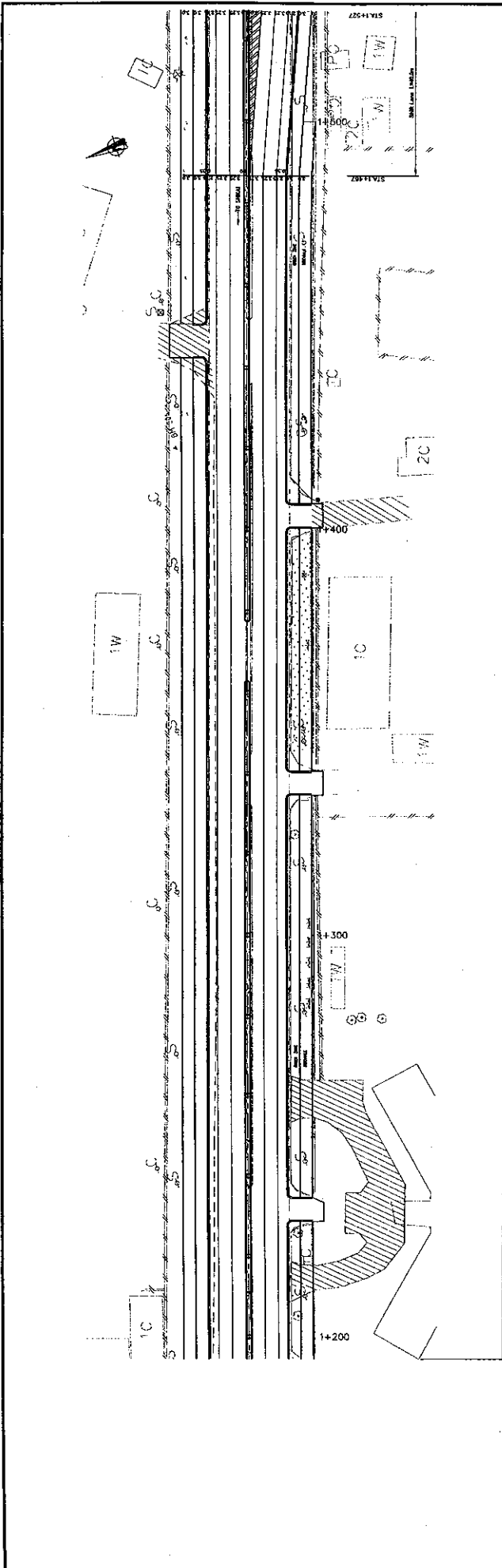
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DRAWING NO: PL-03

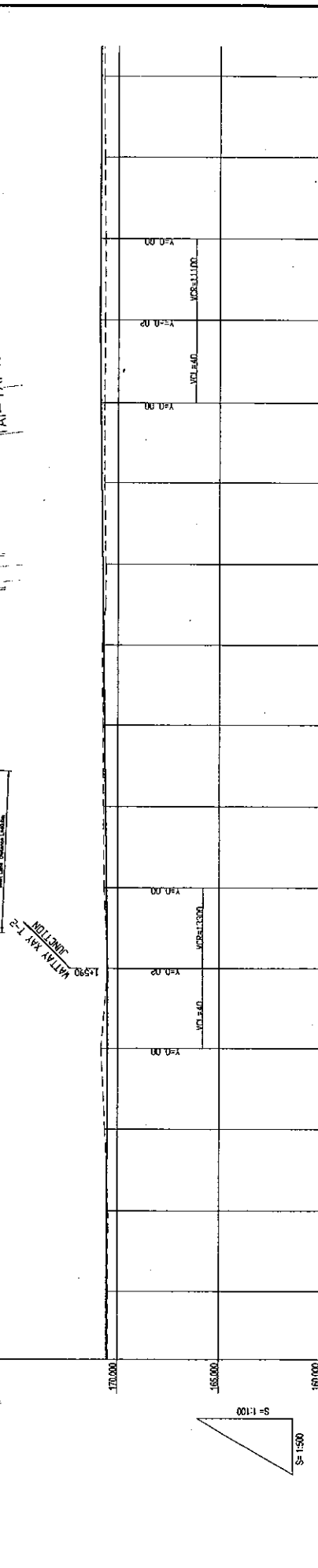
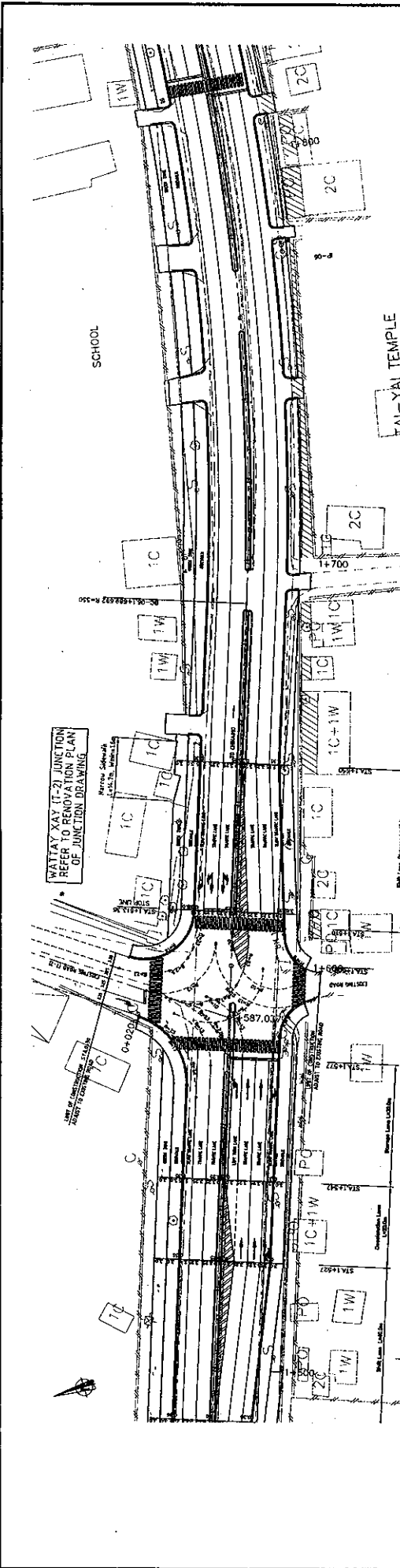
RV



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. 0+880 - STA. 1+200)	SCALE: H=1:500 V=1:100	DRAWING No: PL-04
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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	PLAN AND PROFILE (STA. 14200 - STA. 14270)	SCALE: H=1:500 V=1:100	DRAWING No: <b>PL-05</b>	RV:
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VERTICAL ALIGNMENT	170+00	170+10	170+20	170+30	170+40	170+50	170+60	170+70	170+80	170+90	180+00
PAYMENT LEVELS	170.70	170.68	170.67	170.66	170.65	170.64	170.63	170.62	170.61	170.60	170.59
SURFACE LEVELS	170.70	170.68	170.67	170.66	170.65	170.64	170.63	170.62	170.61	170.60	170.59
PEGGED CHAINAGE	170.70	170.68	170.67	170.66	170.65	170.64	170.63	170.62	170.61	170.60	170.59
HORIZONTAL CURVATURE											
SUPERELEVATION											
TYPICAL CROSS SECTION TYPE	TYPE-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

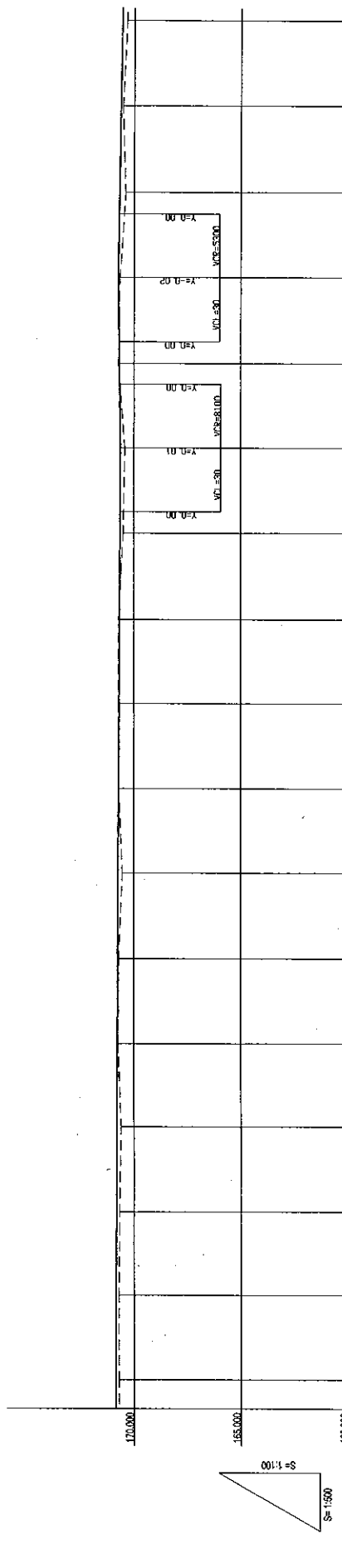
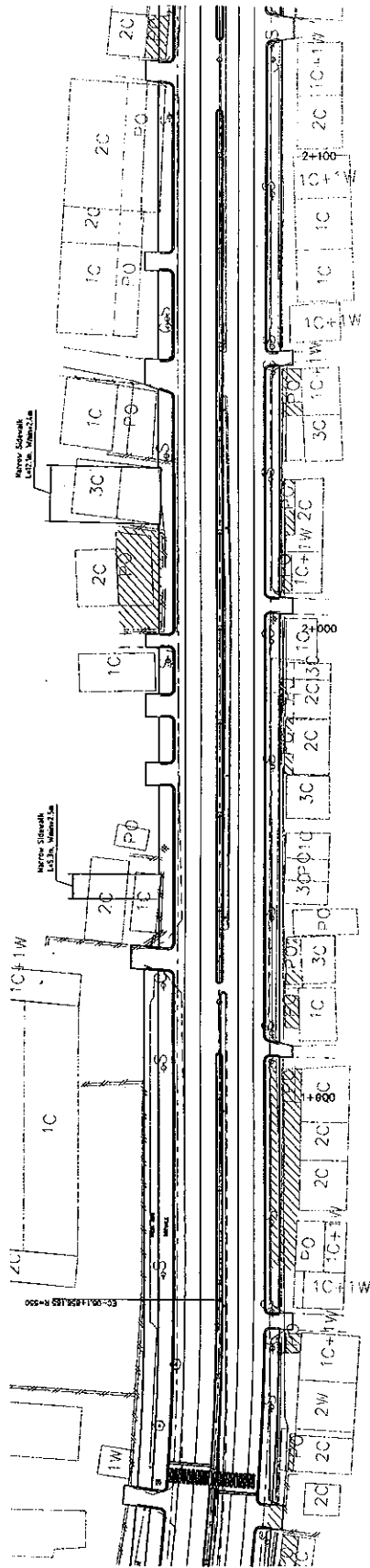
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CTE ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE  
 (STA. 1+520 - STA. 1+820)

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

DRAWING NO: PL-06

RV



TYPE	TYPE-3	TYPE-4
TYPICAL CROSS SECTION		
SUPERELEVATION		
HORIZONTAL CURVATURE		
PEGGED CHAINAGE		
SURFACE LEVELS		
PAVEMENT LEVELS		
VERTICAL ALIGNMENT		

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

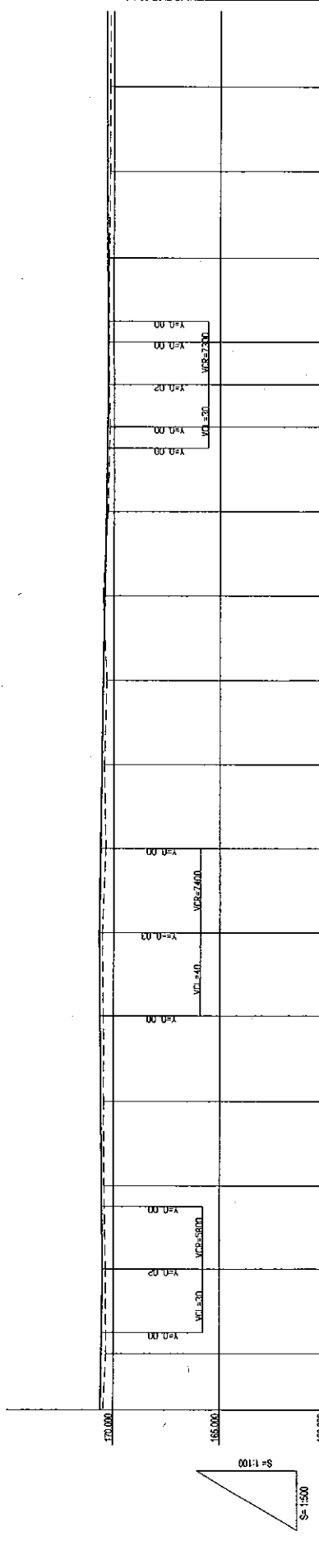
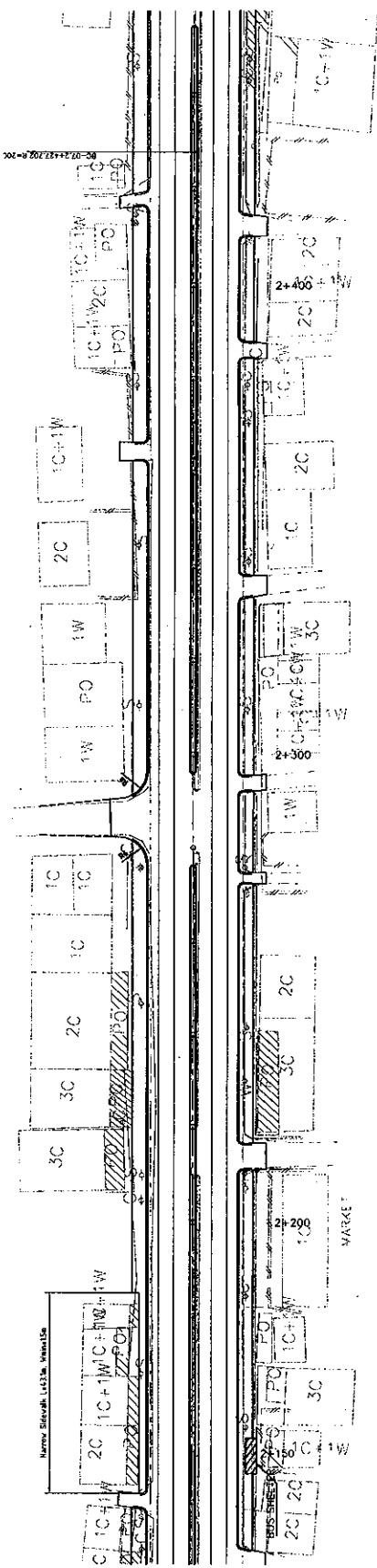
TITLE:

PLAN AND PROFILE  
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SCALE:  
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DRAWING NO:  
PL-07

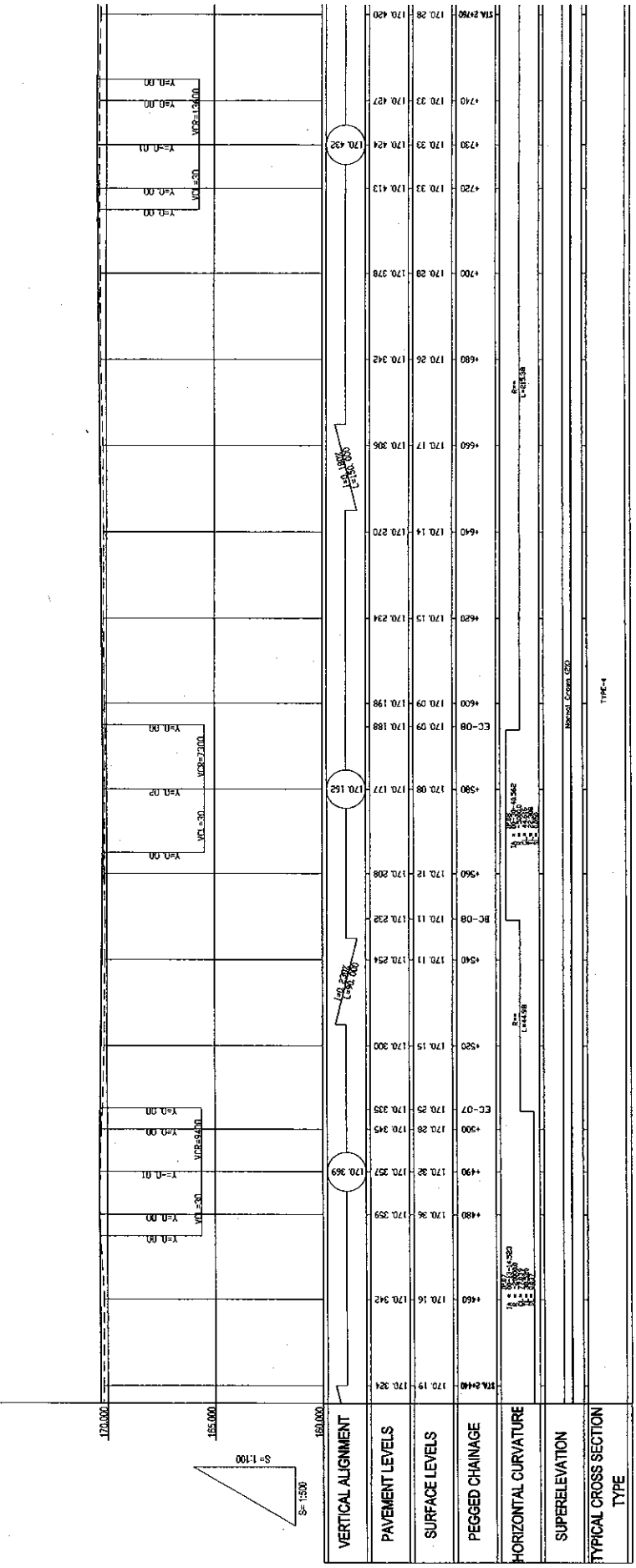
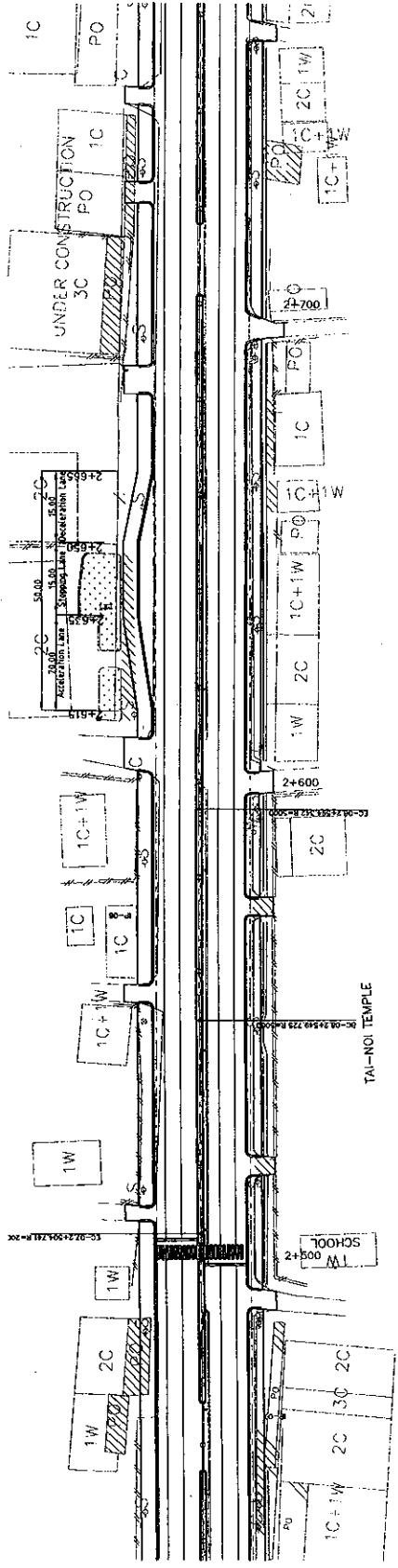
REV.



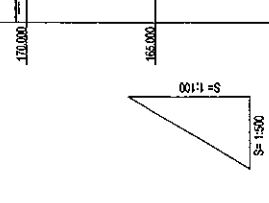
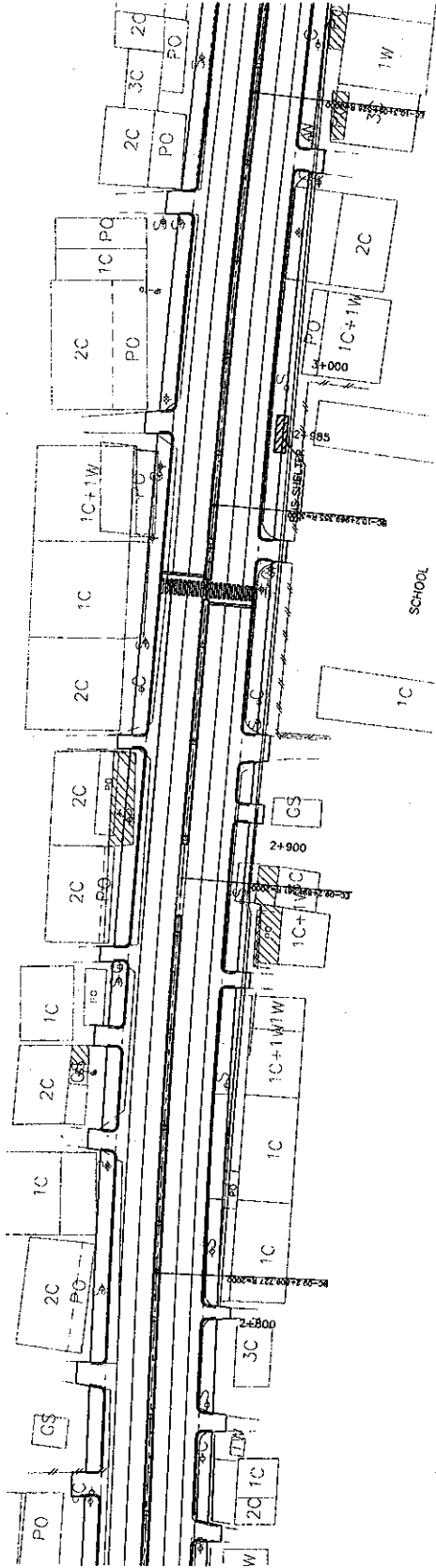
VERTICAL ALIGNMENT	STATION	ELEVATION
PAVEMENT LEVELS	170.19	170.224
	170.19	170.313
SURFACE LEVELS	170.19	170.306
	170.19	170.288
PEGGED CHAINAGE	170.25	170.272
	170.22	170.276
HORIZONTAL CURVATURE	170.19	170.295
	170.19	170.295
SUPERELEVATION	170.25	170.272
	170.22	170.276
TYPICAL CROSS SECTION TYPE	170.28	170.357
	170.28	170.357
HORIZONTAL CURVATURE	170.51	170.421
	170.31	170.485
SUPERELEVATION	170.43	170.545
	170.43	170.545
TYPICAL CROSS SECTION TYPE	170.37	170.613
	170.53	170.656
HORIZONTAL CURVATURE	170.48	170.633
	170.46	170.589
SUPERELEVATION	170.43	170.545
	170.36	170.521
TYPICAL CROSS SECTION TYPE	170.34	170.561
	170.34	170.561

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+140 - STA. 2+440)	SCALE: H=1:500 V=1:100	DRAWING NO: PL-08	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. 2+440 - STA. 2+760)		SCALE: H=1:500 V=1:100		DRAWING NO: PL-09		REV.
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VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHANGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.420	170.28	170.28	170.28			
170.404	170.30	170.30	170.404			
170.400	170.28	170.28	170.400			
170.396	170.27	170.396	170.396			
170.388	170.25	170.388	170.388			
170.380	170.16	170.380	170.380			
170.372	170.26	170.372	170.372			
170.367	170.26	170.367	170.367			
170.364	170.26	170.364	170.364			
170.356	170.29	170.356	170.356			
170.348	170.25	170.348	170.348			
170.340	170.23	170.340	170.340			
170.336	170.188	170.336	170.336			
170.332	170.14	170.332	170.332			
170.324	170.21	170.324	170.324			
170.316	170.23	170.316	170.316			
170.308	170.19	170.308	170.308			
170.302	170.27	170.302	170.302			
170.300	170.30	170.300	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

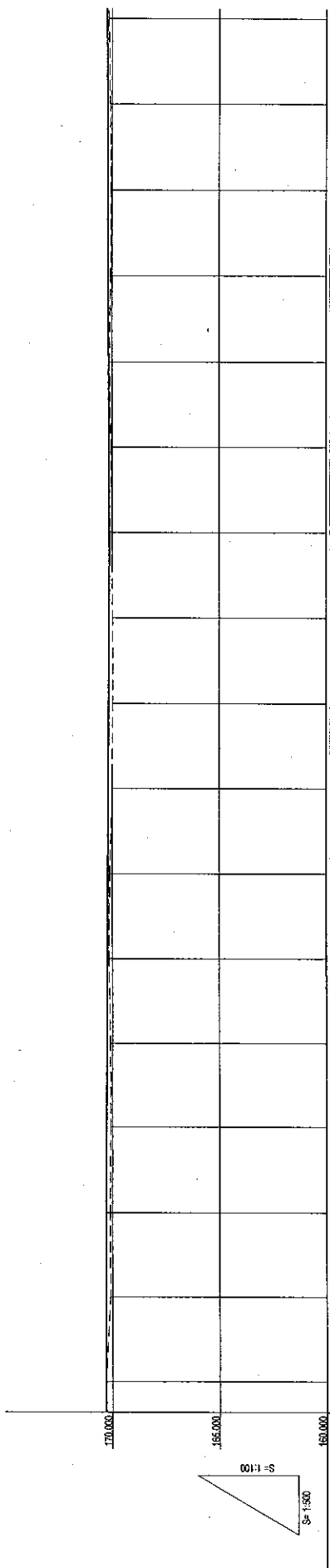
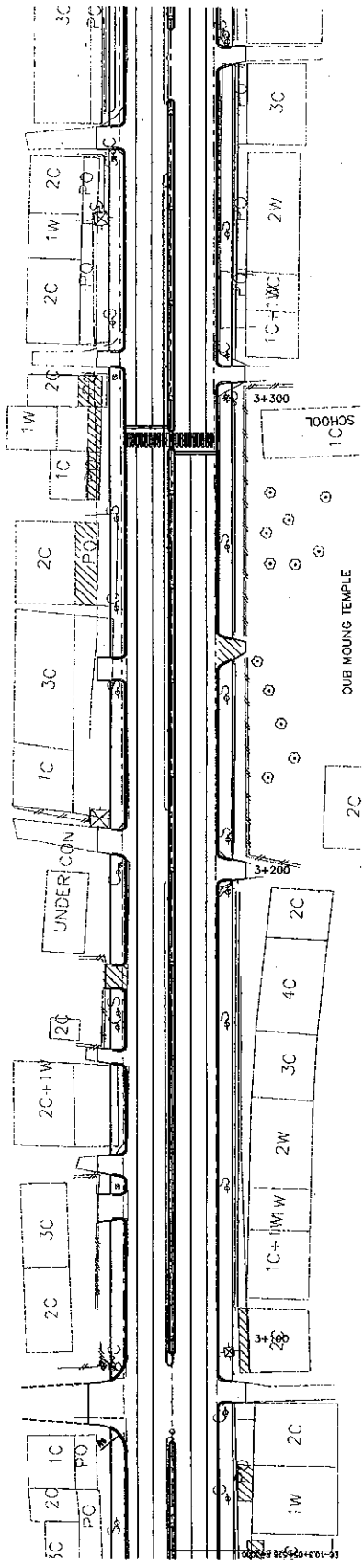
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE (STA. 2+60 - STA. 3+60)

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

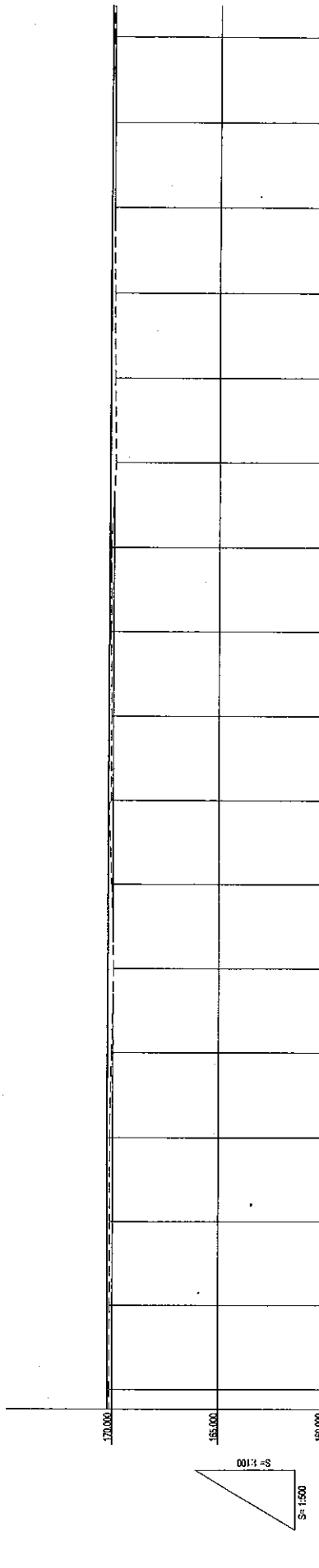
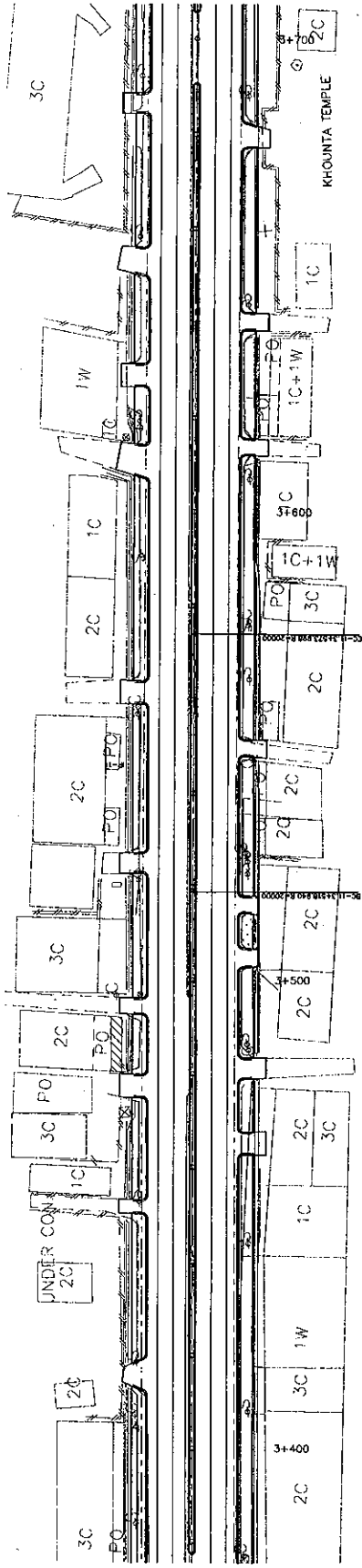
DRAWING NO: PL-10

Rev



VERTICAL ALIGNMENT	STATION	ELEVATION
STA 3+000	170.27	170.302
	170.28	170.300
	170.29	170.292
	170.10	170.284
	170.12	170.284
	170.15	170.284
	170.18	170.284
	170.20	170.184
	170.22	170.164
	170.24	170.144
	170.26	170.124
	170.28	170.140
	170.30	170.156
	170.32	170.172
	170.34	170.188
	170.36	170.204
STA 3+300	170.14	170.222

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	PLAN AND PROFILE (STA. 3+000 - STA. 3+300)	SCALE: H=1:500 V=1:100	DRAWING NO: <b>PL-11</b>	RV
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VERTICAL ALIGNMENT	170.112	170.124	170.136	170.148	170.160	170.172	170.184	170.196	170.208	170.220
PAYMENT LEVELS	170.05	170.01	170.01	169.97	159.96	169.91	170.13	170.13	170.09	170.09
SURFACE LEVELS	170.112	170.01	170.01	169.97	159.96	169.91	170.13	170.13	170.09	170.09
PEGGED CHANGE	170.14	170.14	170.07	169.97	170.06	170.06	170.07	170.12	170.09	170.09
HORIZONTAL CURVATURE	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14
SUPERELEVATION	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14
TYPICAL CROSS SECTION TYPE	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14	170.14

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

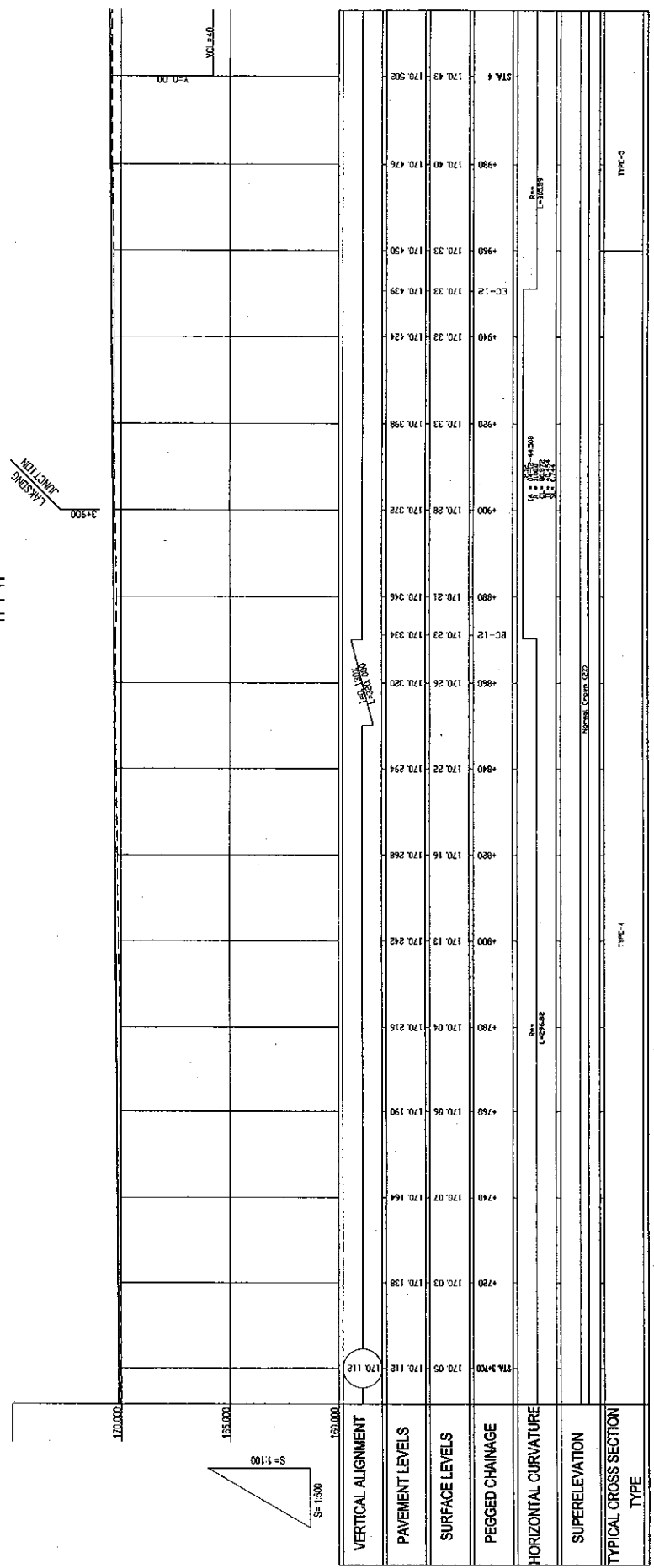
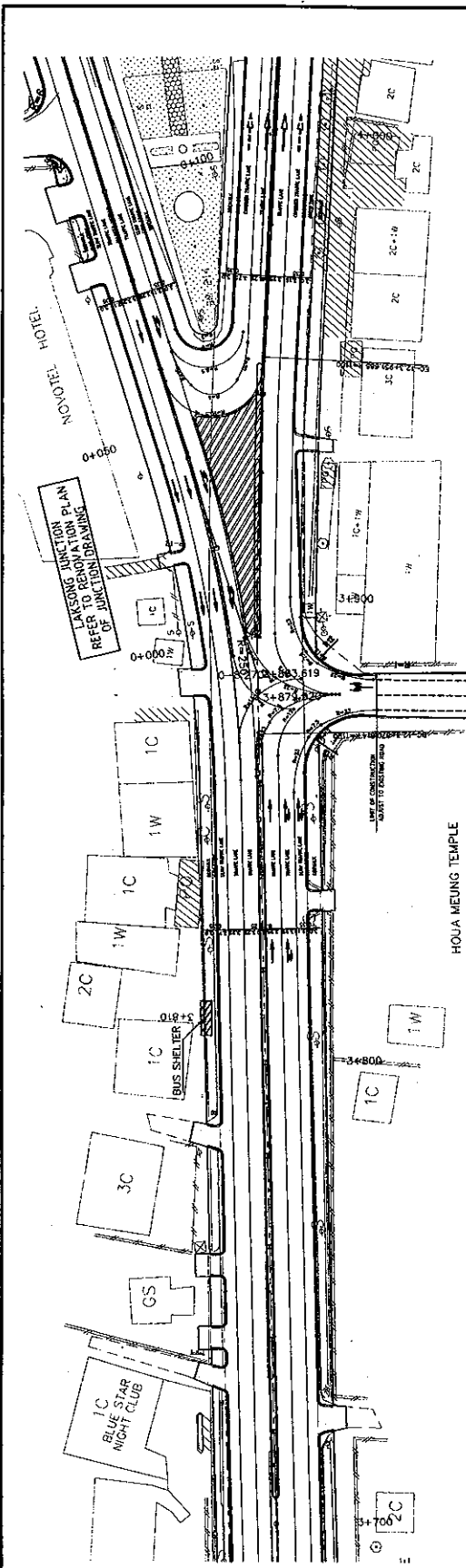
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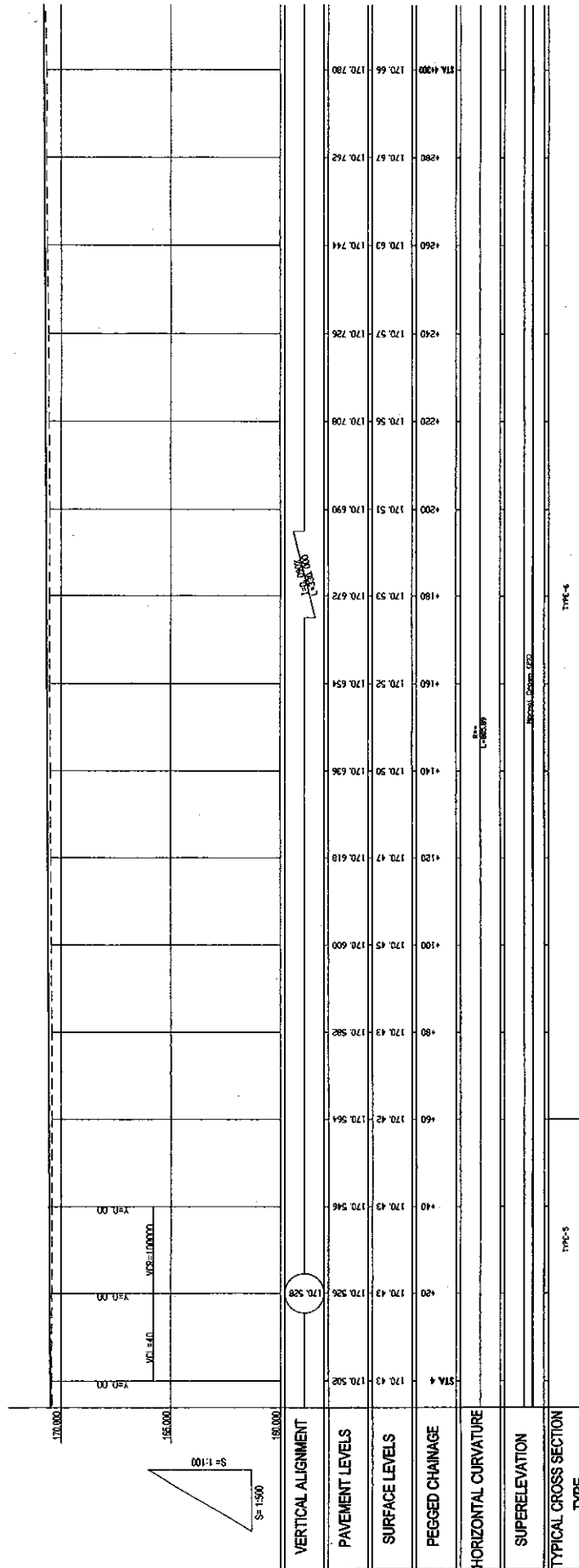
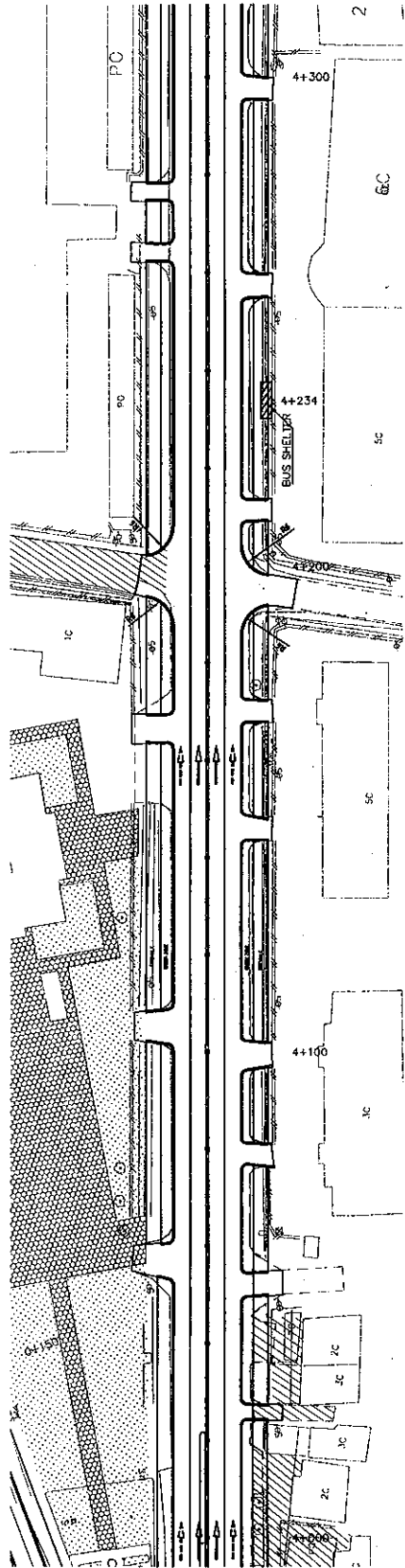
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DRAWING NO:  
 PL-12

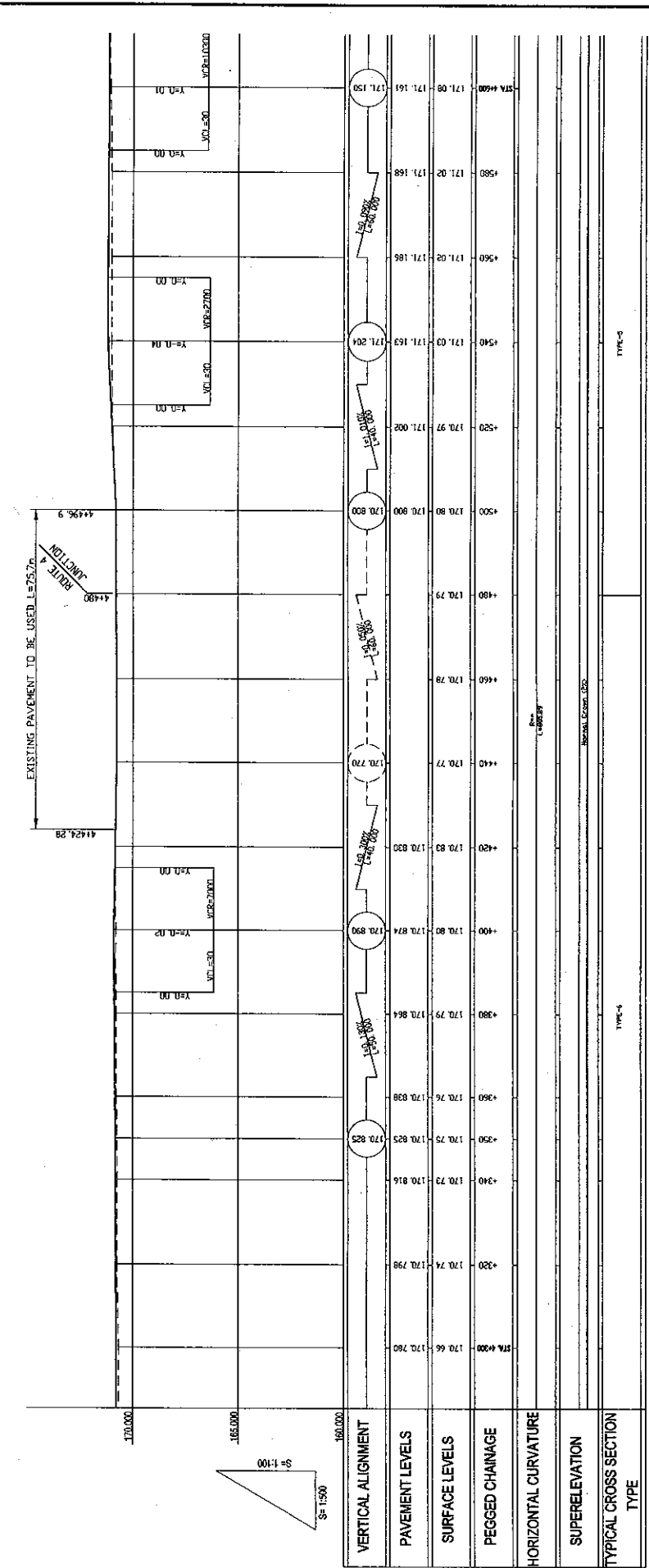
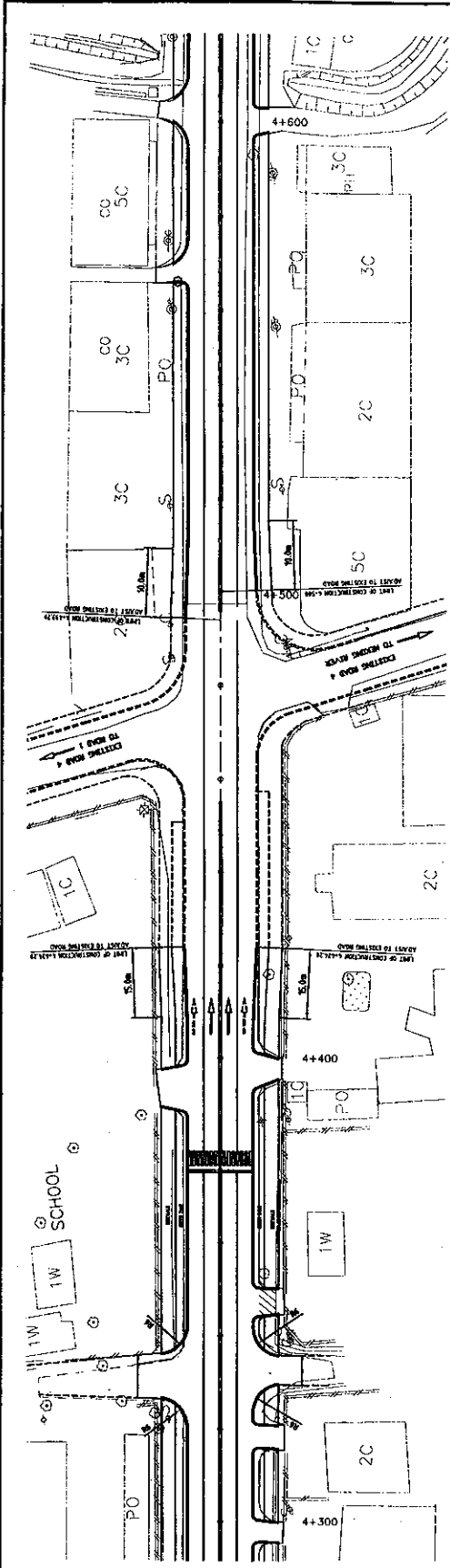
Rv



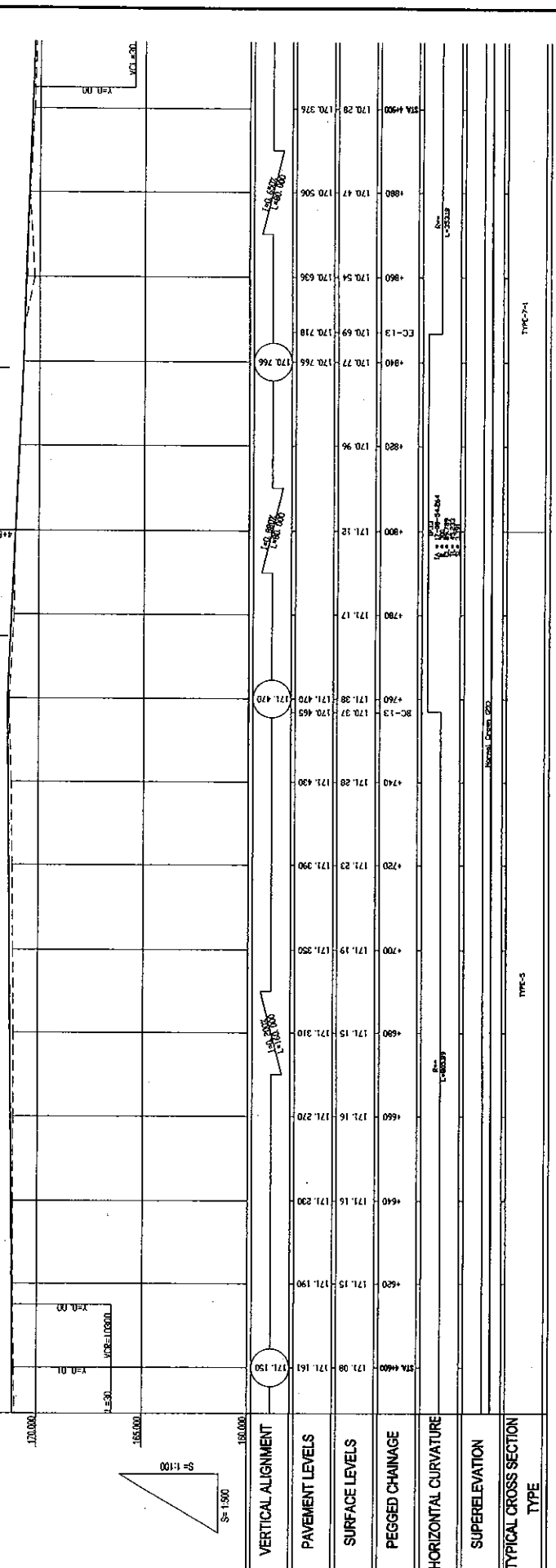
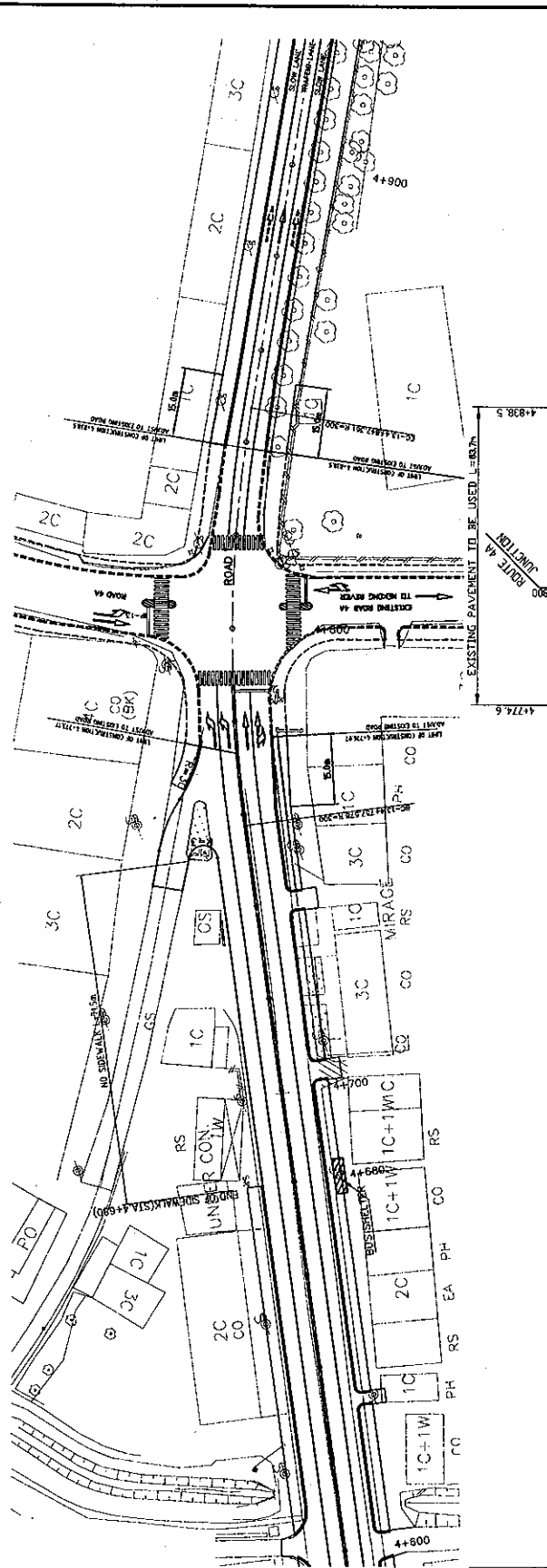
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE: PLAN AND PROFILE (STA. 3+00 - STA. 4+00)	SCALE: H=1:500 V=1:100	DRAWING No: <b>PL-13</b>
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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		TITLE:	PLAN AND PROFILE (STA. 4+000 - STA. 4+300)	SCALE: H=1:500 V=1:100	DRAWING No: <b>PL-14</b>
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 CHANGE							
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. 4+300 - STA. 4+600)	SCALE: H=1:500 V=1:100	DRAWING No: <b>PL-15</b>
			TYPE-3			
			TYPE-4			
			TYPE-5			
			TYPE-6			
			TYPE-7			
			TYPE-8			
			TYPE-9			



VERTICAL ALIGNMENT	
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:

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

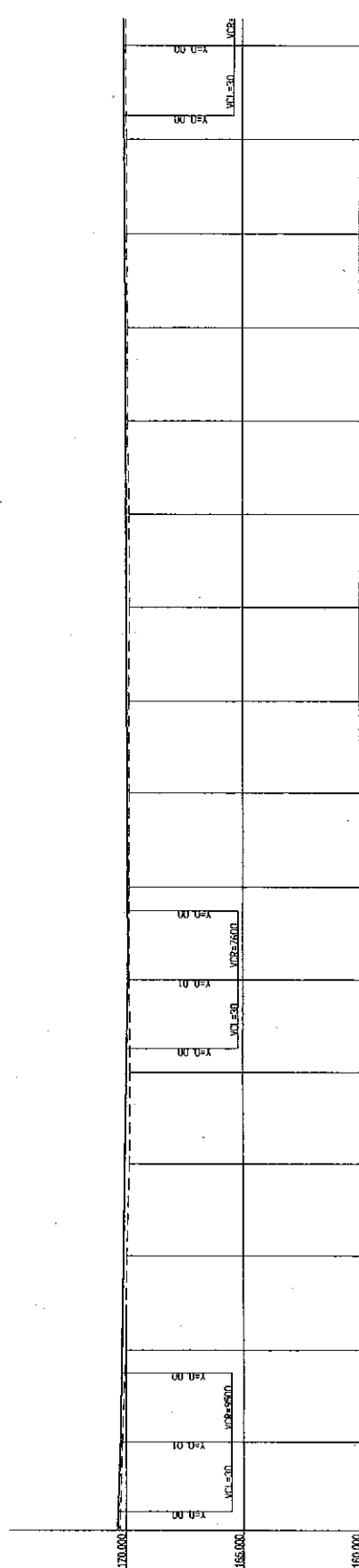
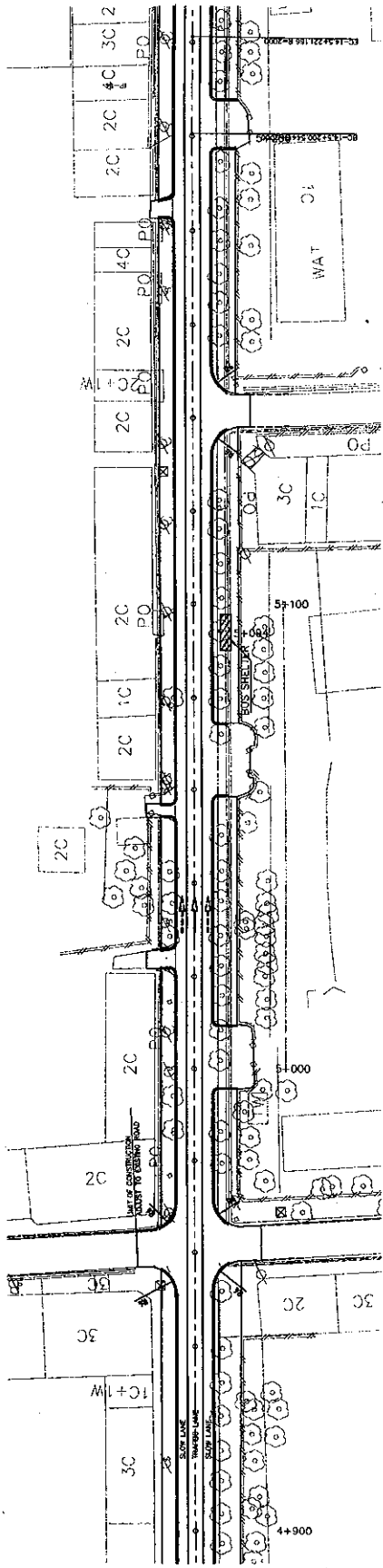
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**PL-16**

STA. 4+600 - STA. 4+900

TYPE: 1-1

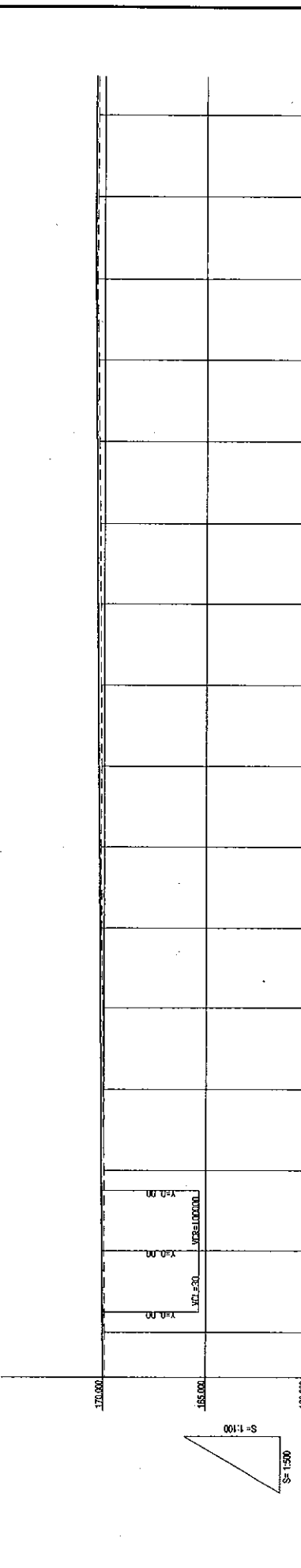
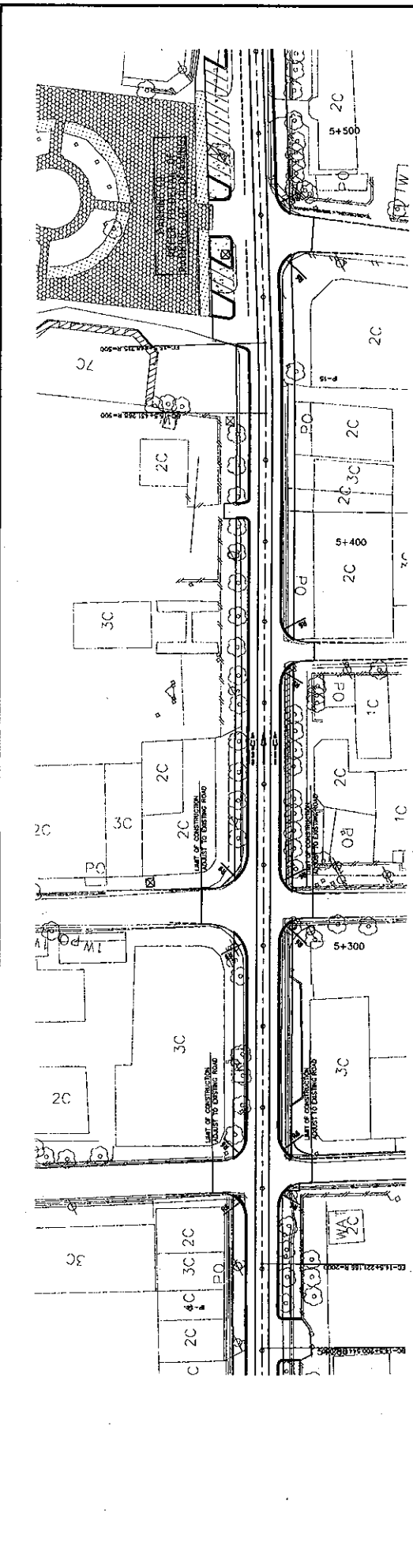
REV:





VERTICAL ALIGNMENT	170.246	170.112	169.979	170.112	169.911	169.926	169.979	169.828	169.979	169.855	169.923	169.959	169.947	169.926	169.959	169.828	169.959	169.848	169.971	169.848	169.971	169.908	169.983	169.908	169.983	169.920	169.995	169.920	170.007	170.079
PAVEMENT LEVELS	170.16	170.03	170.129	170.043	169.85	169.926	169.979	169.828	169.979	169.855	169.923	169.959	169.947	169.926	169.959	169.828	169.959	169.848	169.971	169.848	169.971	169.908	169.983	169.908	169.983	169.920	169.995	169.920	170.007	170.079
SURFACE LEVELS	170.15	170.02	170.112	170.043	169.84	169.926	169.979	169.828	169.979	169.848	169.923	169.959	169.947	169.926	169.959	169.828	169.959	169.848	169.971	169.848	169.971	169.908	169.983	169.908	169.983	169.920	169.995	169.920	170.007	170.079
PEGGED CHANGAGE																														
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 CIT ENGINEERING INTERNATIONAL CO. LTD		TITLE PLAN AND PROFILE (STA. 4+900 - STA. 5+200)		SCALE: H=1:500 V=1:100	DRAWING NO: <b>PL-17</b>	REV.
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Station	Surface Elevation	Pavement Elevation	Vertical Curve
170+000	170.043	170.423	VC-14 L=120.000
170+200	170.393	170.431	
170+400	170.311	170.409	VC-15 L=120.000
170+600	170.249	170.422	
170+800	170.199	170.396	VC-15 L=120.000
171+000	170.159	170.379	
171+200	170.139	170.379	VC-15 L=120.000
171+400	170.129	170.379	
171+600	170.119	170.379	VC-15 L=120.000
171+800	170.109	170.379	
172+000	170.099	170.379	VC-15 L=120.000
172+200	170.089	170.379	
172+400	170.079	170.379	VC-15 L=120.000
172+600	170.069	170.379	
172+800	170.059	170.379	VC-15 L=120.000
173+000	170.049	170.379	
173+200	170.039	170.379	VC-15 L=120.000
173+400	170.029	170.379	
173+600	170.019	170.379	VC-15 L=120.000
173+800	170.009	170.379	
174+000	170.000	170.379	VC-15 L=120.000
174+200	170.000	170.379	

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

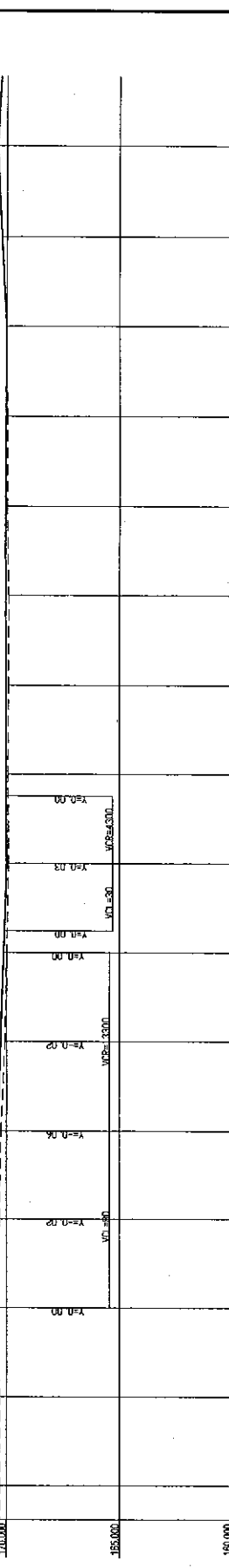
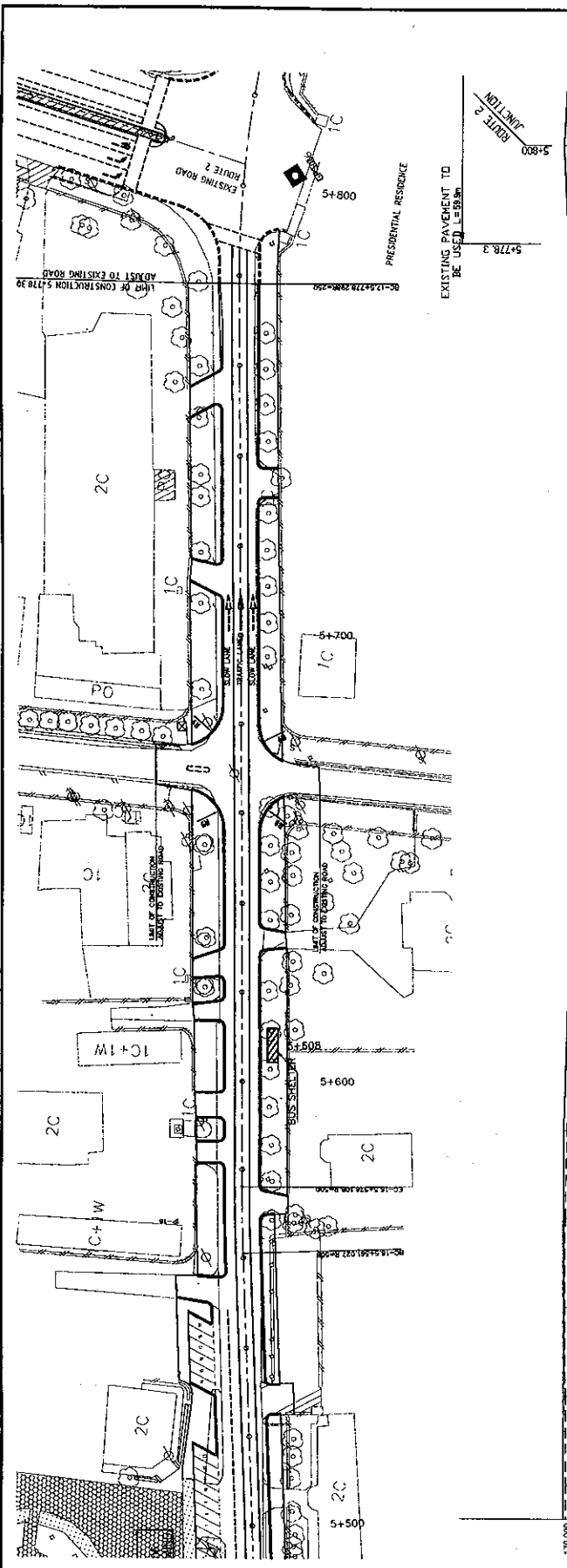
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PLAN AND PROFILE  
 (STA. 5+200 - STA. 5+500)

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

DRAWING NO: **PL-18**

RV:



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.415	170.22	170.22	170.415			
170.212	170.195	170.195	170.212			
170.009	170.01	170.01	170.009			
170.034	169.97	170.034	170.034			
170.059	169.99	170.059	170.059			
170.046	169.91	170.046	170.046			
169.93	169.93	170.033	170.033			
169.94	169.94	170.020	170.020			
169.93	169.93	170.033	170.033			
170.135	170.00	170.135	170.135			
170.248	170.07	170.248	170.248			
170.344	170.25	170.344	170.344			
170.388	170.28	170.388	170.388			
170.407	170.35	170.407	170.407			
170.415	170.33	170.415	170.415			
170.423	170.33	170.423	170.423			
170.560	170.56	170.560	170.560			
170.580	170.58	170.580	170.580			
170.944	170.94	170.944	170.944			
170.991	170.99	170.991	170.991			
170.248	170.07	170.248	170.248			
170.033	170.03	170.033	170.033			
170.020	170.02	170.020	170.020			
169.94	169.94	170.020	170.020			
169.93	169.93	170.033	170.033			
169.91	169.91	170.046	170.046			
169.99	169.99	170.059	170.059			
169.97	169.97	170.034	170.034			
170.01	170.01	170.009	170.009			
170.20	170.20	170.195	170.195			
170.22	170.22	170.195	170.195			
170.415	170.41	170.212	170.212			

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

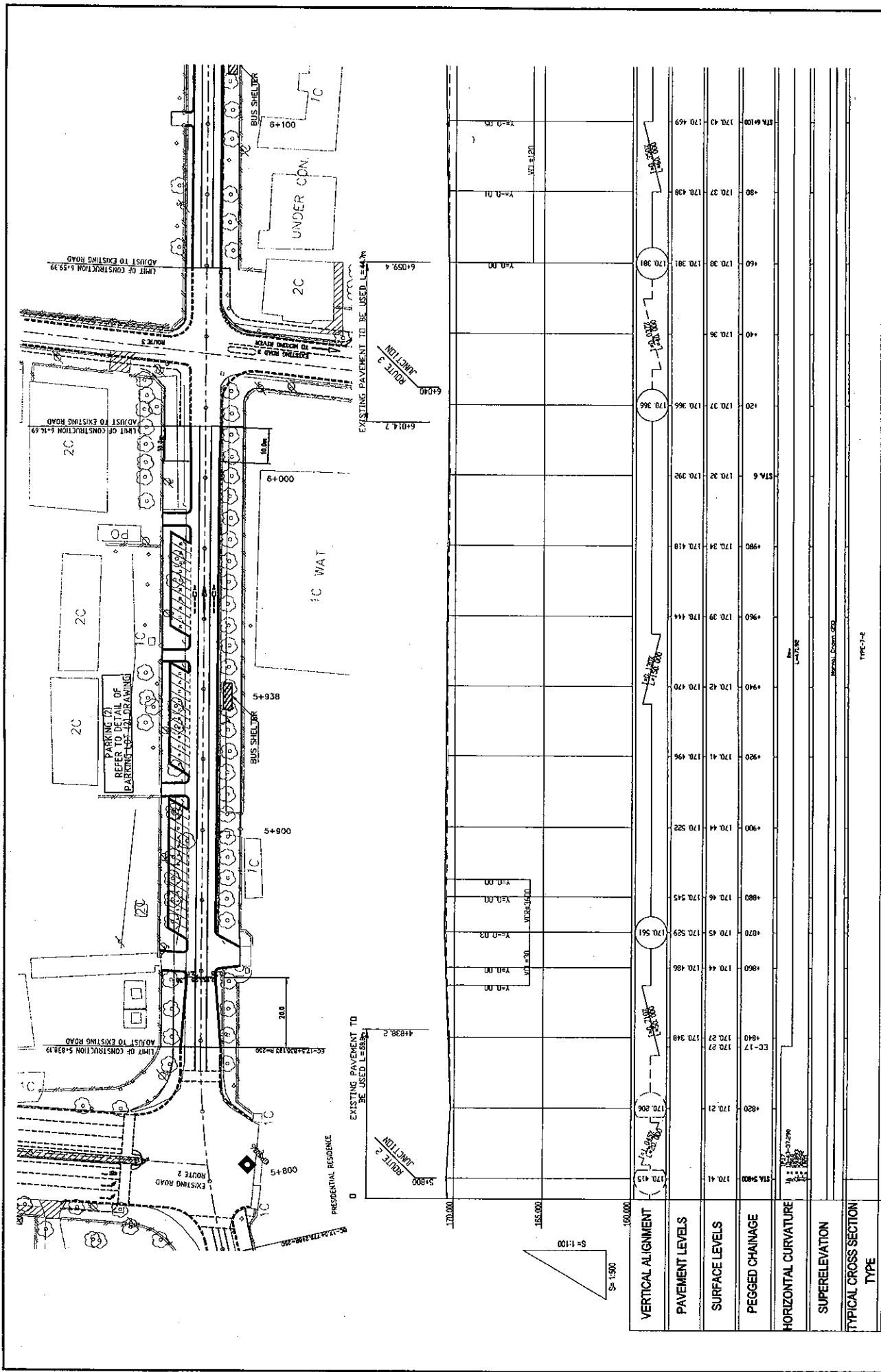
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PLAN AND PROFILE  
(STA. 5+500 - STA. 5+600)

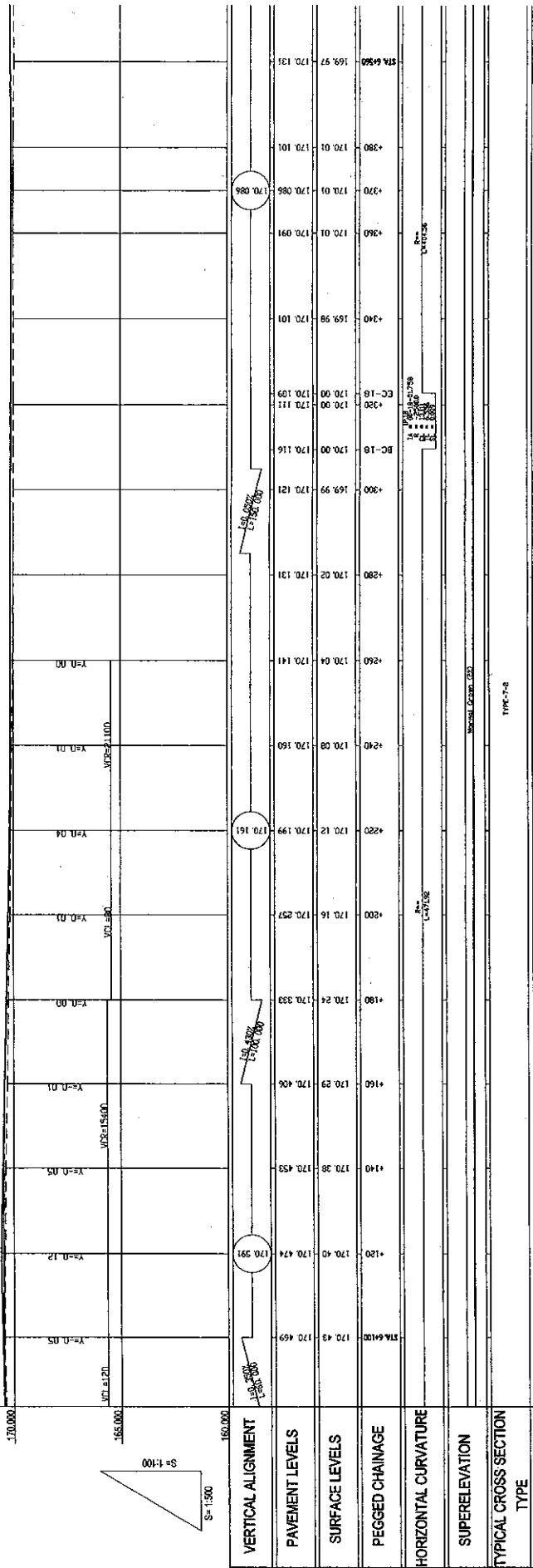
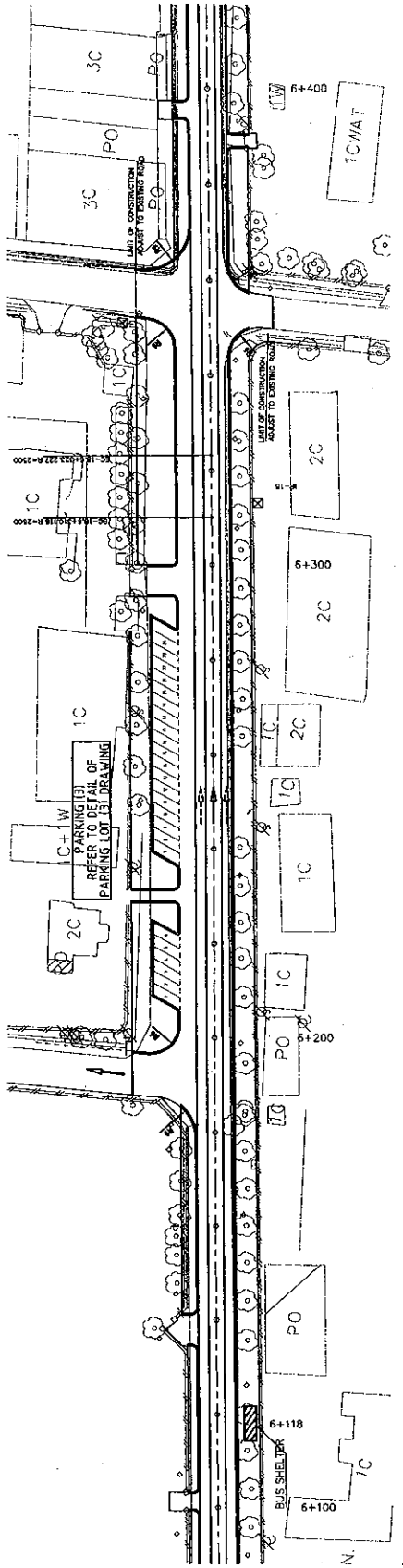
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DRAWING No. **PL-19**

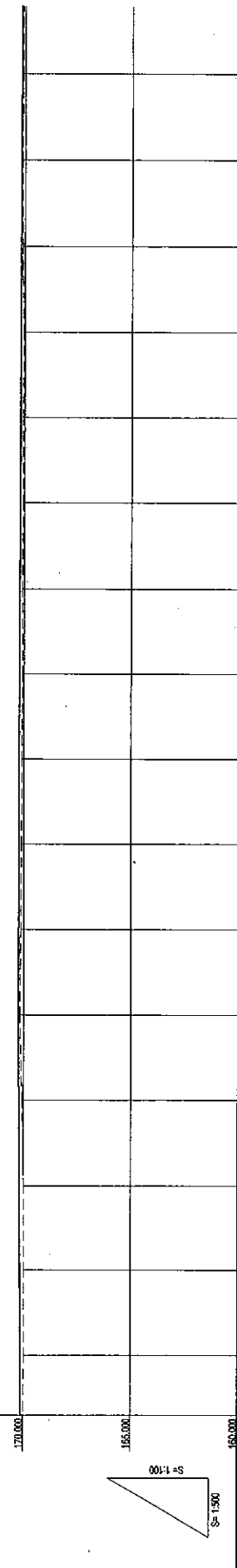
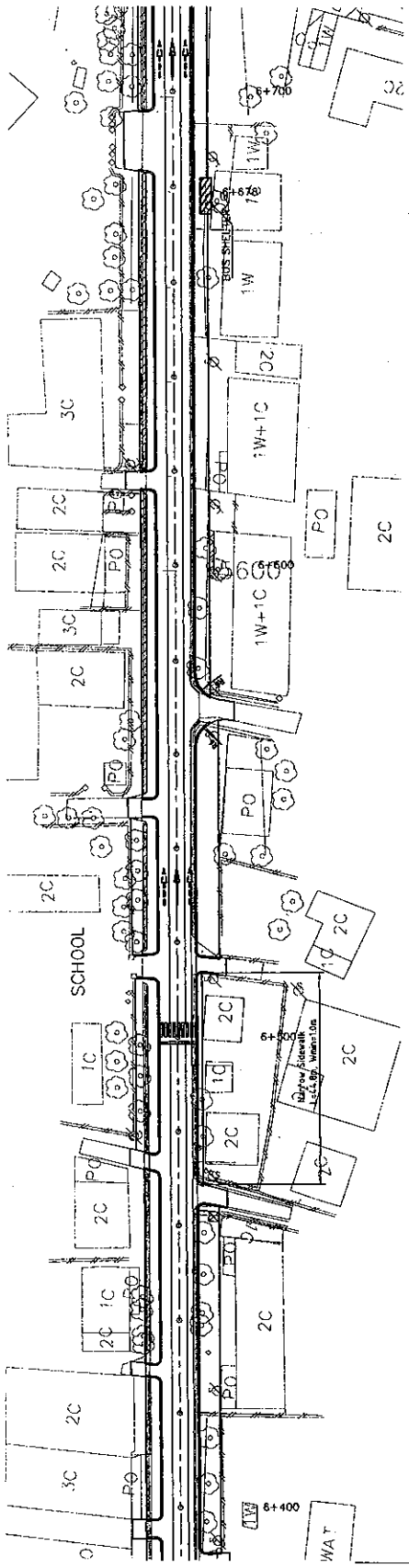
TYPE: 7-1



DRAWING No:	PL-20
	SCALE: H=1:500 V=1:100
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
TYPICAL CROSS SECTION TYPE	TYPE-2

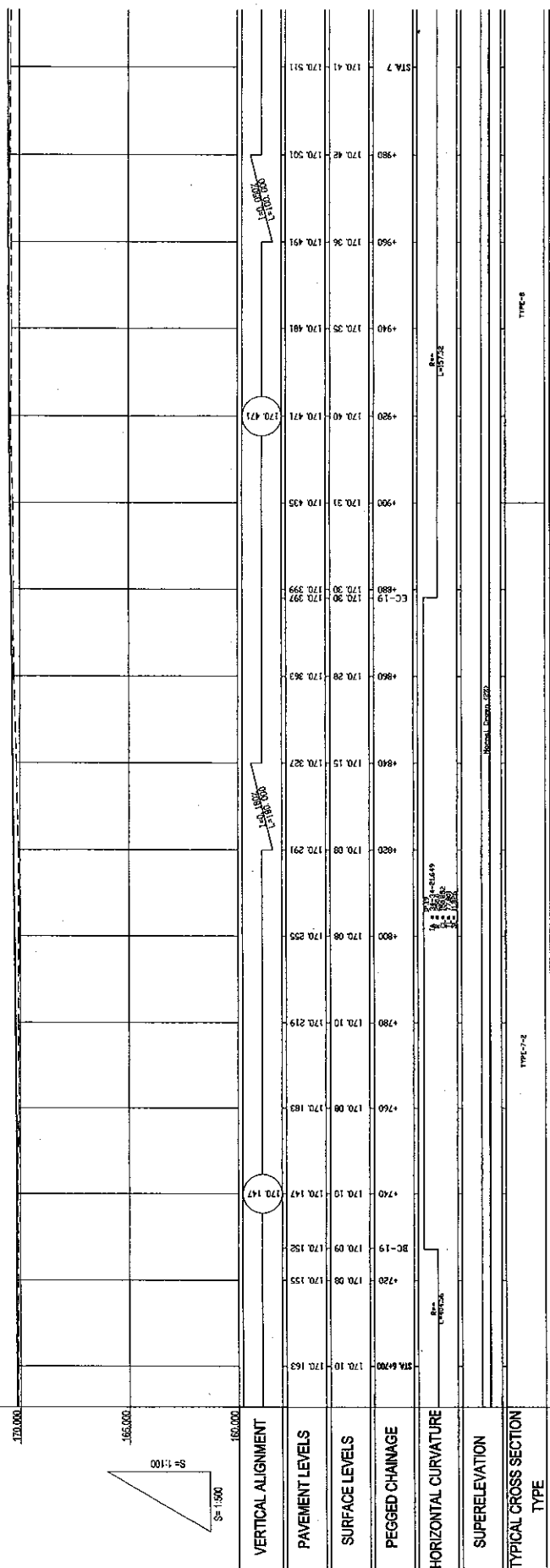
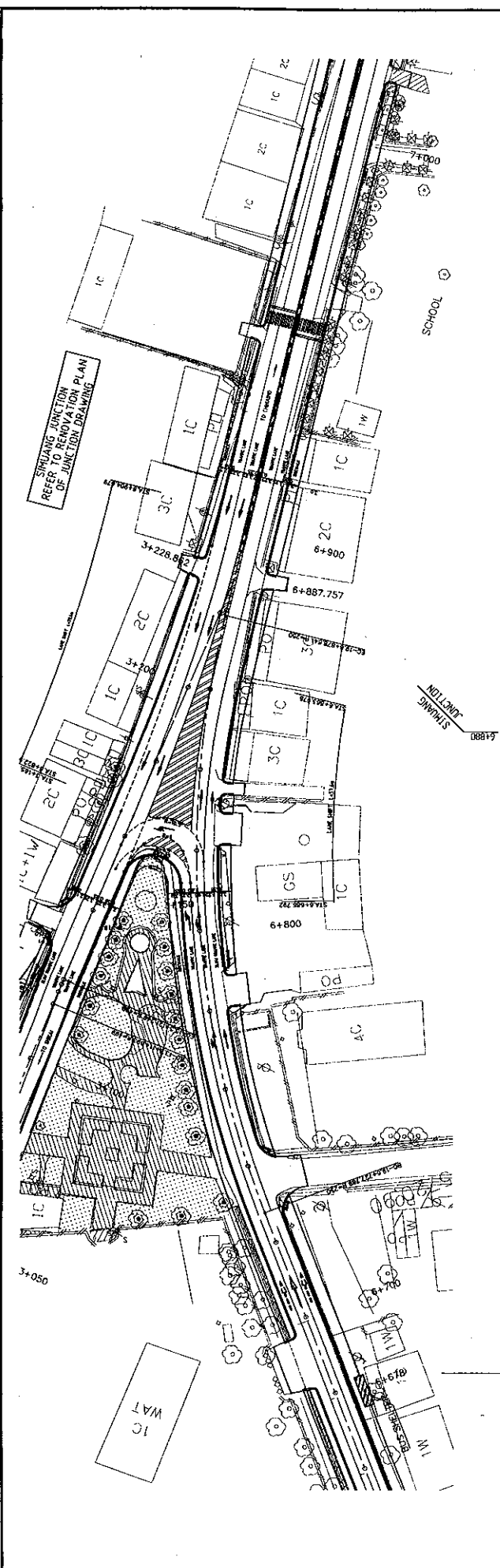


ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL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



VERTICAL ALIGNMENT	STATION	ELEVATION (M)
GRADE	170.131	169.97
GRADE	170.161	169.98
GRADE	170.191	169.99
GRADE	170.221	170.07
GRADE	170.251	170.17
GRADE	170.281	170.14
GRADE	170.311	170.23
GRADE	170.341	170.10
GRADE	170.371	170.22
GRADE	170.401	170.21
GRADE	170.431	170.09
GRADE	170.461	170.07
GRADE	170.491	170.19
GRADE	170.521	170.07
GRADE	170.551	170.09
GRADE	170.581	170.07
GRADE	170.611	170.17
GRADE	170.641	170.07
GRADE	170.671	170.17
GRADE	170.701	170.09
GRADE	170.731	170.17
GRADE	170.761	170.09
GRADE	170.791	170.11
GRADE	170.821	170.10
GRADE	170.851	170.16
GRADE	170.881	170.13
GRADE	170.911	170.13
GRADE	170.941	170.13
GRADE	170.971	170.13
GRADE	170.100	170.16

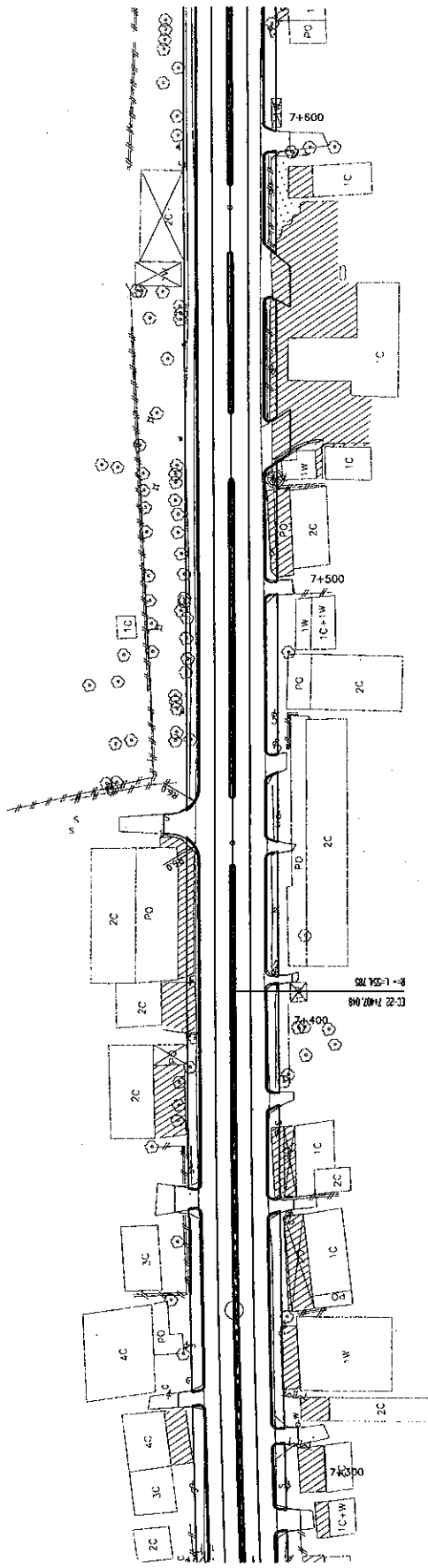
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	PLAN AND PROFILE (STA. 6+400 - STA. 6+700)
			SCALE:	H=1:500 V=1:100
			DRAWING NO.:	PL-22
			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. 6+700 - STA. 7+000)	SCALE: H=1:500 V=1:100	DRAWING NO: PL-23	RV.
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Station	Surface Level	Subgrade Level	Width	Notes
170.000				
165.000				

Station	Surface Level	Subgrade Level	Width	Notes
171.145	171.04	171.155		
171.155	171.07	171.185		
171.165	171.10	171.225		
171.175	171.12	171.245		
171.185	171.11	171.252		
171.195	171.12	171.265		
171.205	171.12	171.285		
171.215	171.19	171.305		
171.225	171.21	171.325		
171.235	171.24	171.345		
171.245	171.24	171.365		
171.255	171.24	171.385		
171.265	171.18	171.415		
171.275	171.18	171.445		
171.285	171.21	171.485		
171.295	171.21	171.525		
171.305	171.21	171.565		
171.315	171.18	171.615		
171.325	171.20	171.675		
171.335	171.21	171.745		
171.345	171.21	171.825		
171.355	171.21	171.915		
171.365	171.21	172.015		

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

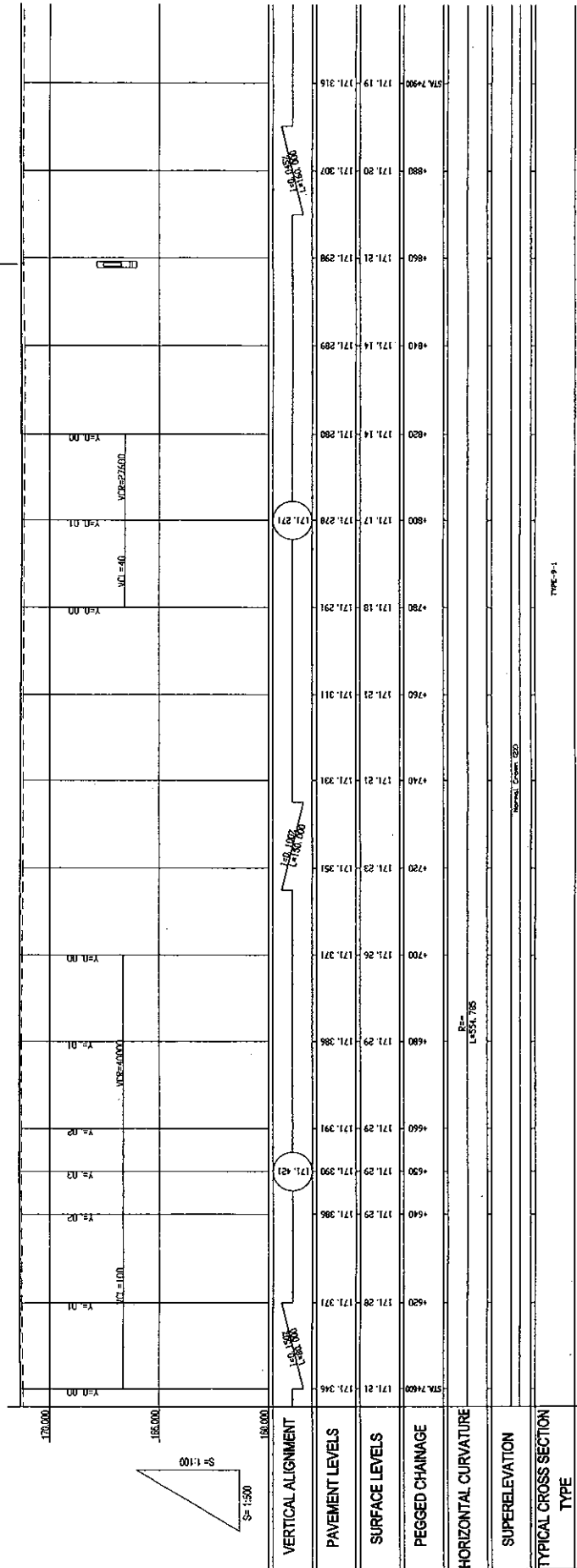
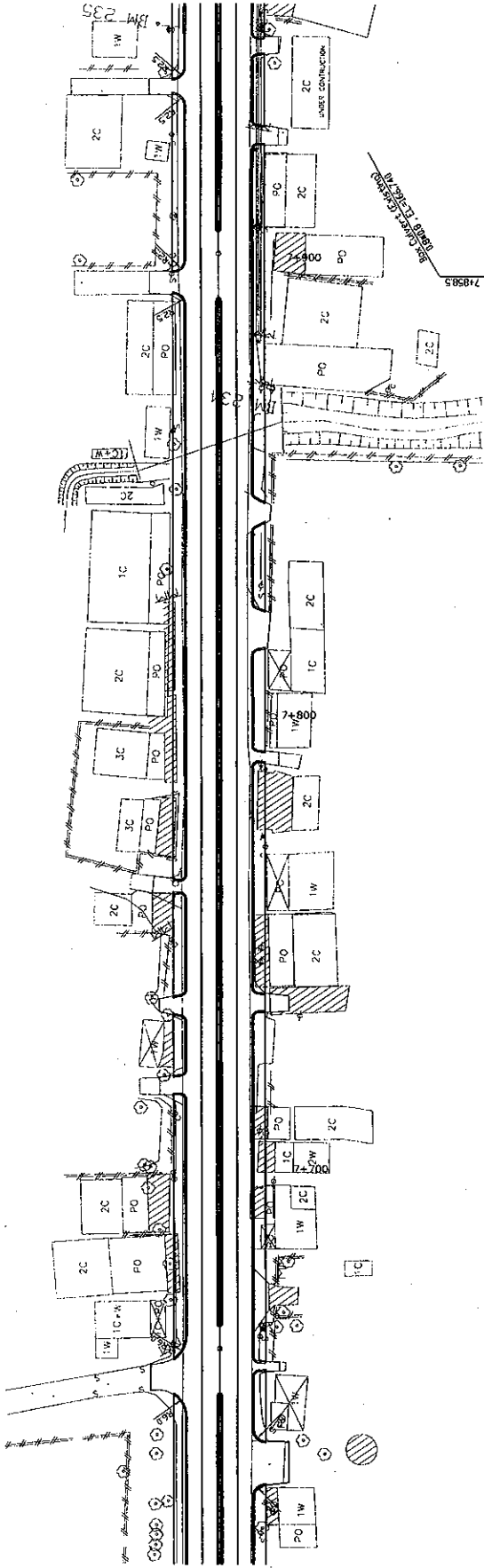
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 C/I ENGINEERING INTERNATIONAL CO. LTD

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

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

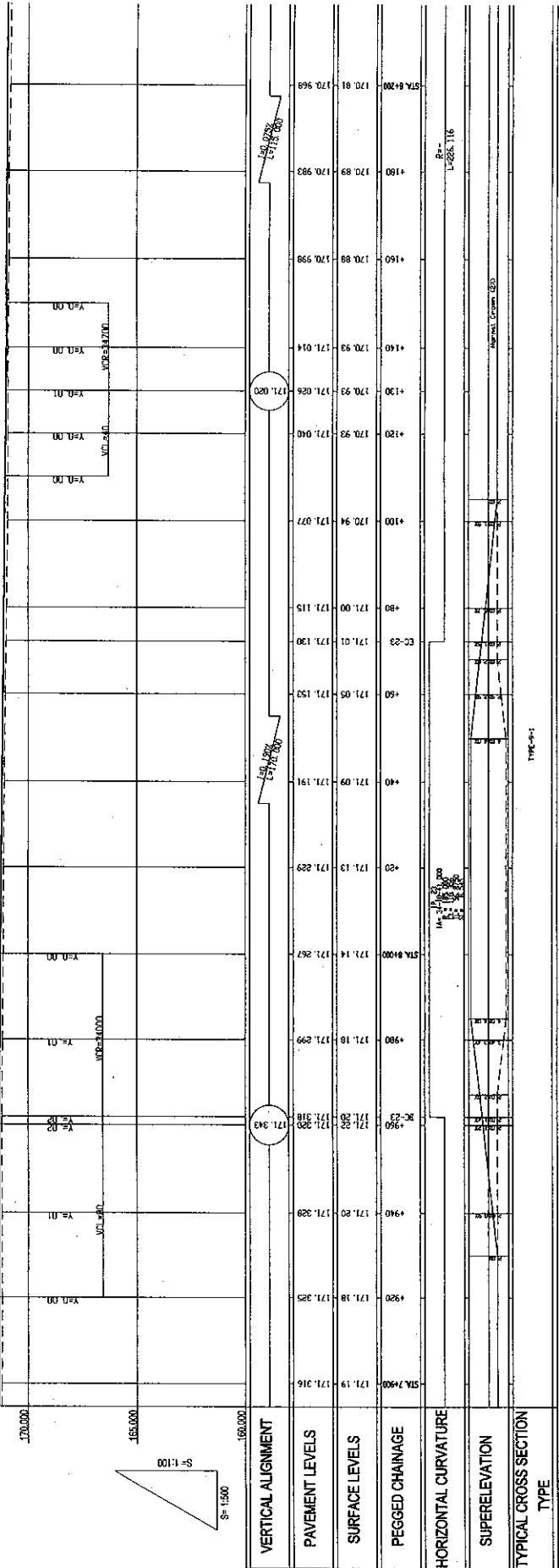
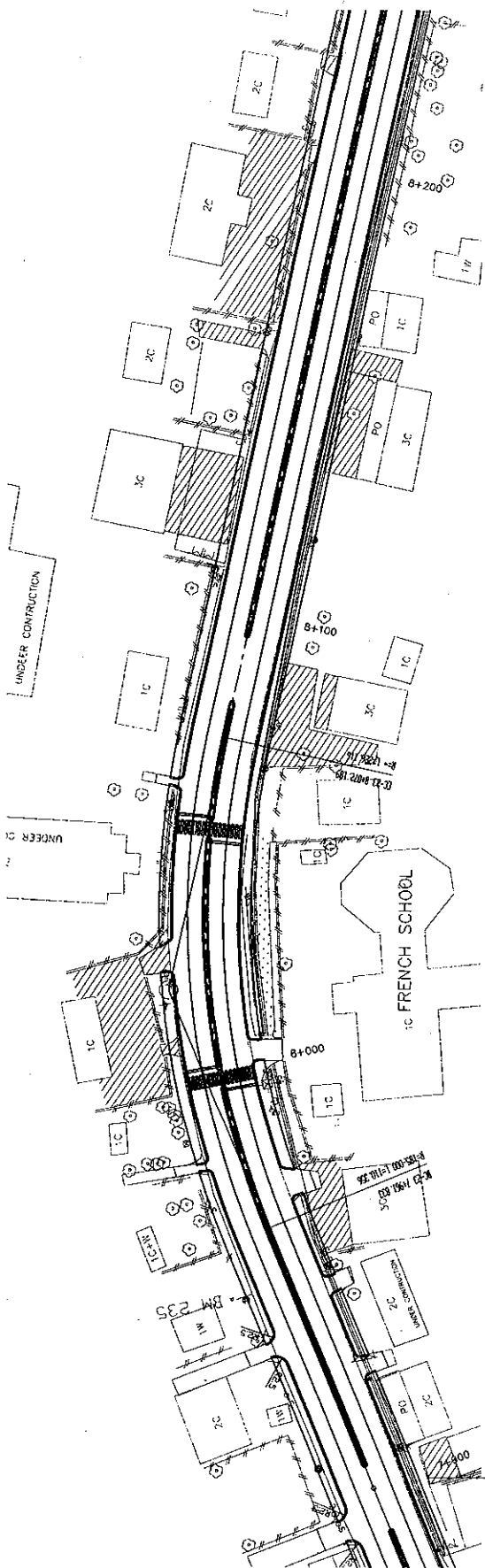
DRAWING NO: **PL-25**

REV: \_\_\_\_\_

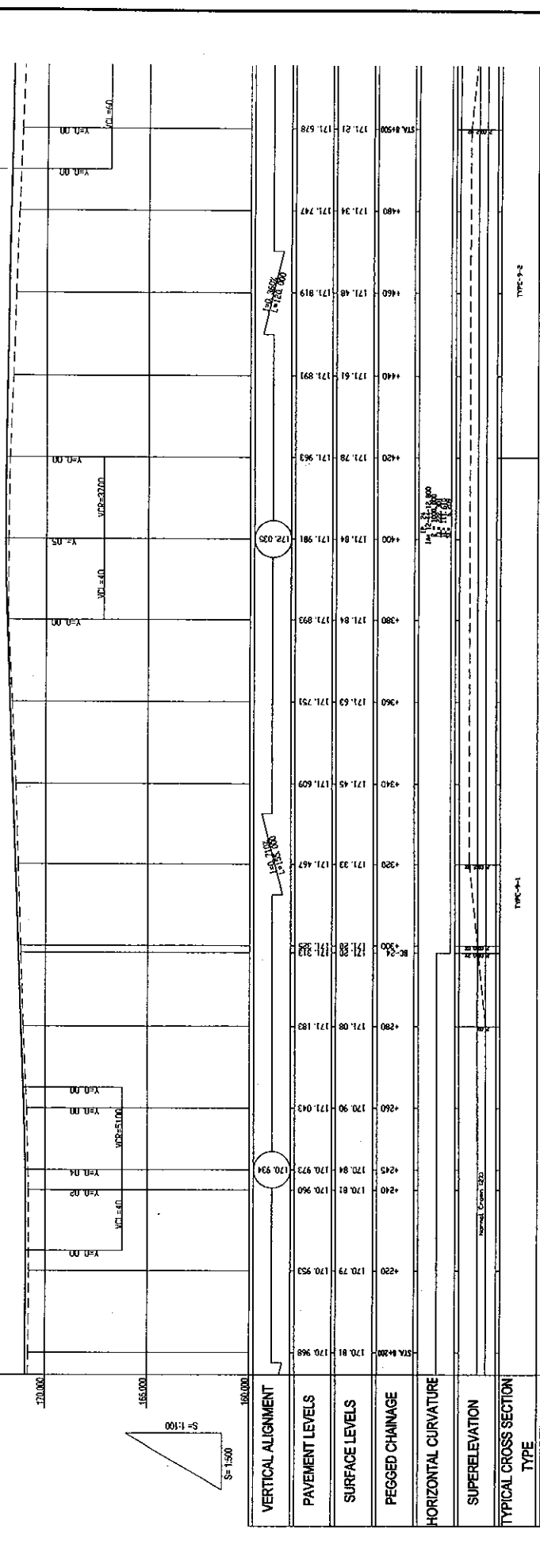
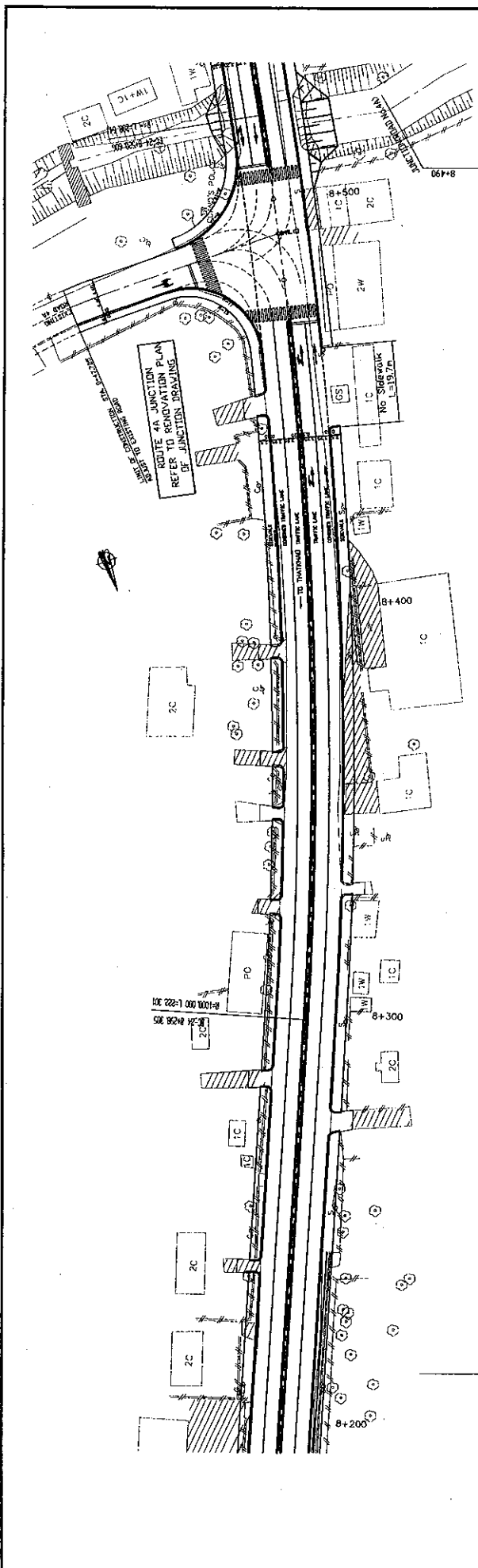


VERTICAL ALIGNMENT	171.271	171.270	171.269	171.268	171.267	171.266	171.265	171.264	171.263	171.262	171.261	171.260	171.259	171.258	171.257	171.256	171.255	171.254	171.253	171.252	171.251	171.250	171.249	171.248	171.247	171.246	171.245	
PAVEMENT LEVELS																												
SURFACE LEVELS																												
PEGGED CHANGE																												
HORIZONTAL CURVATURE																												
SUPERELEVATION																												
TYPICAL CROSS SECTION TYPE																												

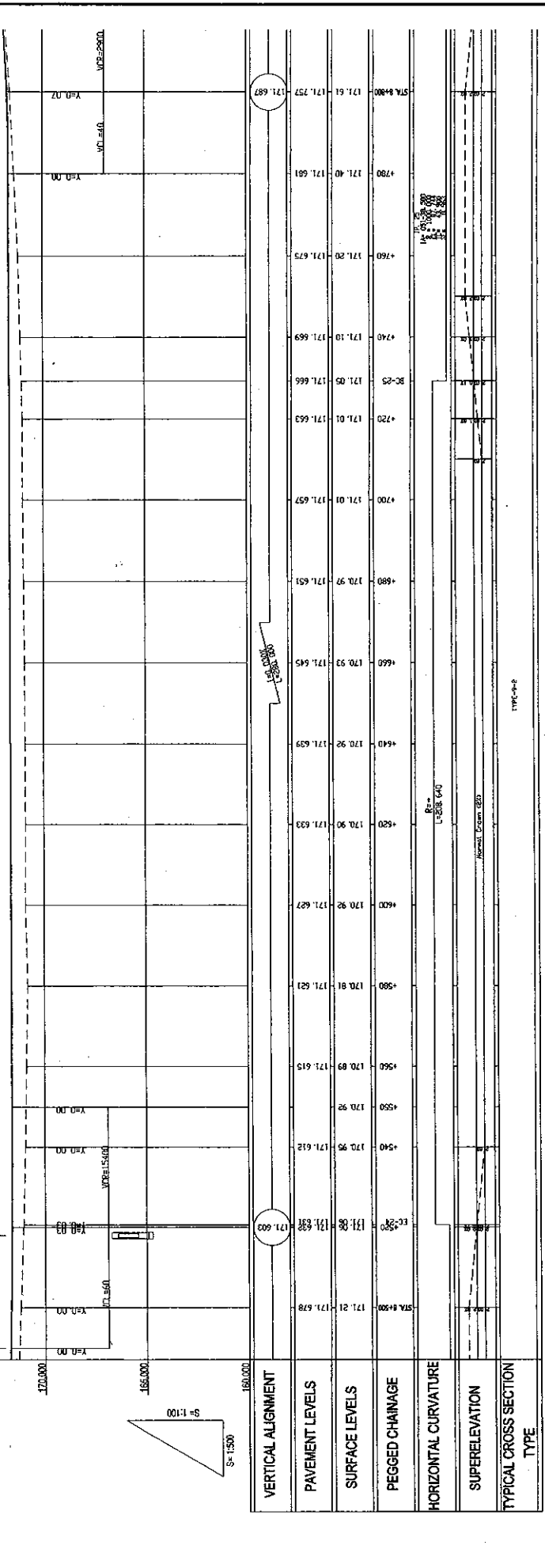
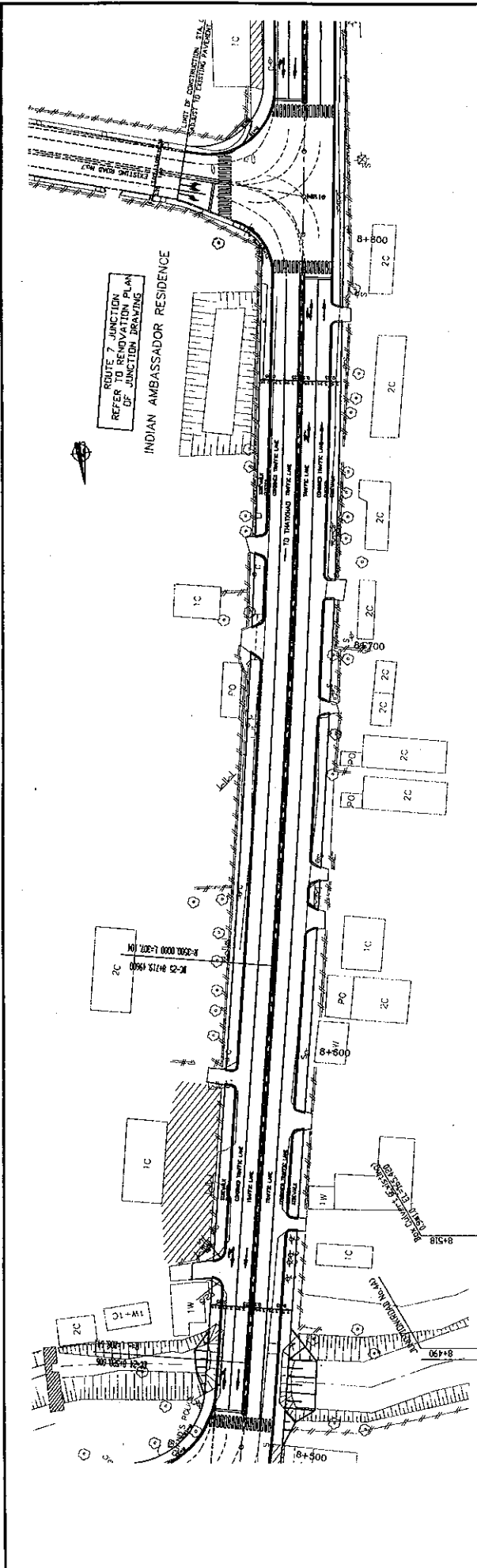
DRAWING No:	PL-26
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TITLE:	PLAN AND PROFILE (STA. 1+600 - STA. 1+900)
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTE ENGINEERING INTERNATIONAL CO., LTD	
BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	



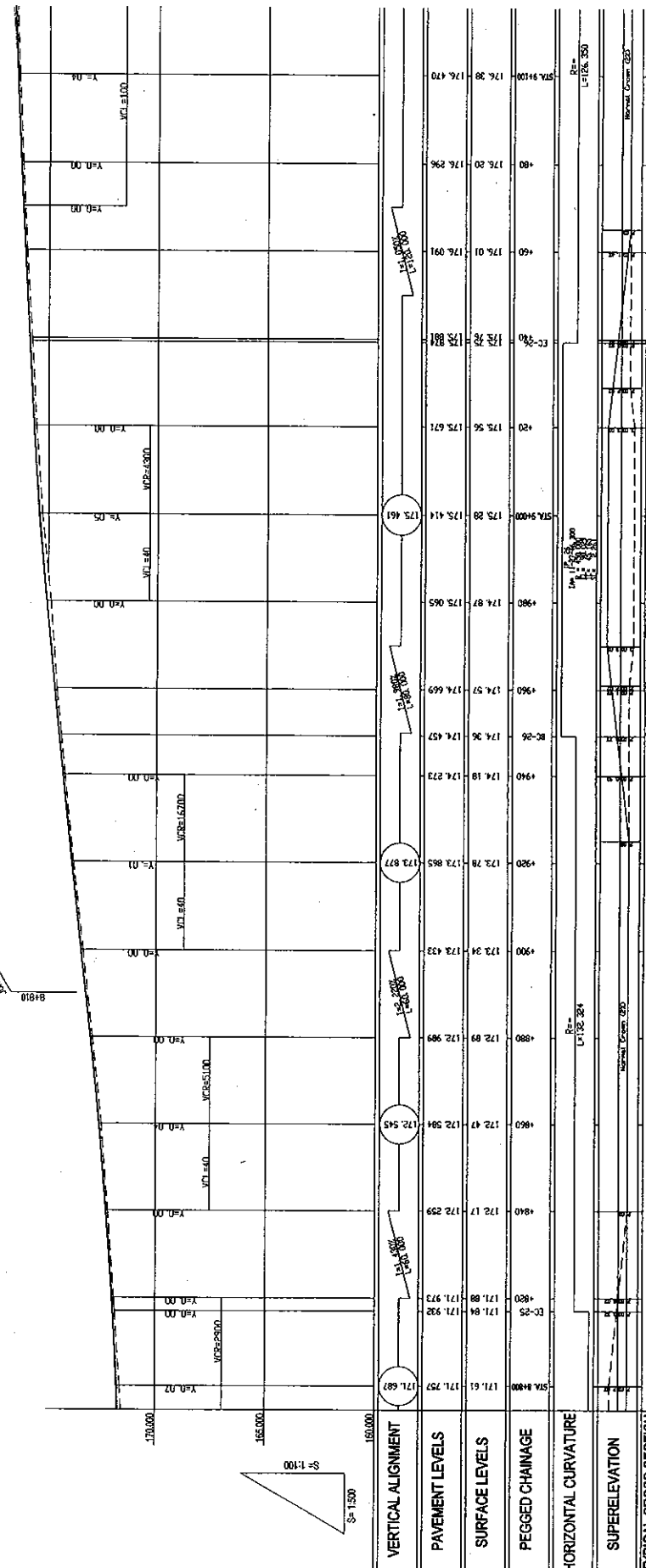
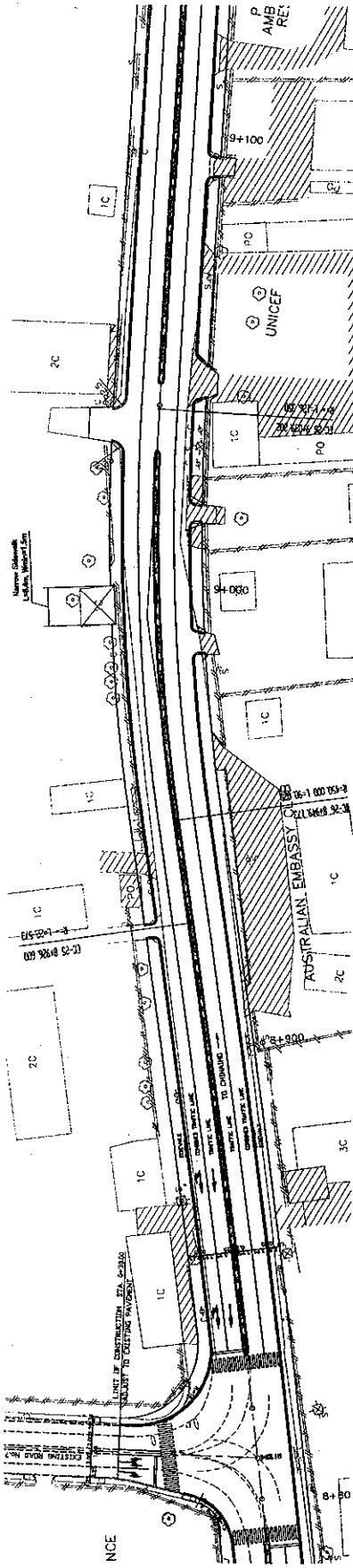
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIETIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	PLAN AND PROFILE (STA. 7+900 - STA. 8+200)	SCALE: H=1:500 V=1:100	DRAWING No. <b>PL-27</b>
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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. 8+200 - STA. 8+500)	SCALE: H=1:500 V=1:100	DRAWING No. <b>PL-28</b>	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	PLAN AND PROFILE (STA. 8+500 - STA. 8+800)	SCALE: H=1:500 V=1:100	DRAWING NO: <b>PL-29</b>	Rv.
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TYPE	STATION	VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION
	0+00	171.68	171.84	171.92	171.88	171.973		
	+80	172.47	172.584	172.545	172.89	172.989		
	+900	173.34	173.433	173.87	174.06	174.273		
	+80	173.78	173.885	173.828	174.87	175.065		
	+20	175.56	175.671	175.28	176.57	176.669		
	+60	176.01	176.091	175.414	176.91	176.991		
	+80	176.20	176.296	174.72	176.20	176.296		
	9+100	176.470	176.566	175.828	176.470	176.566		

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

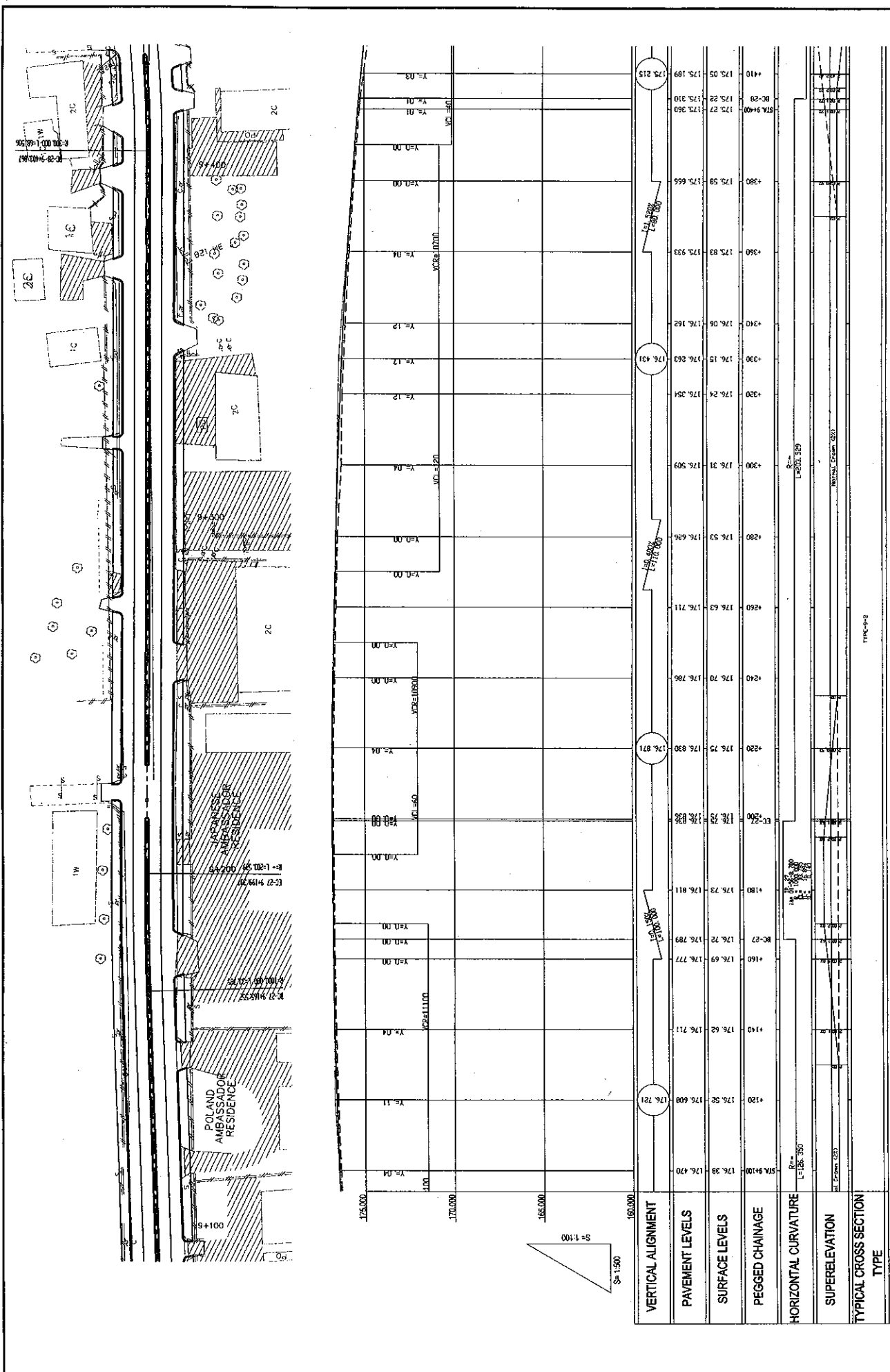
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CTI ENGINEERING INTERNATIONAL CO. LTD

PLAN AND PROFILE  
 (STA. 8+800 - STA. 9+100)

SCALE:  
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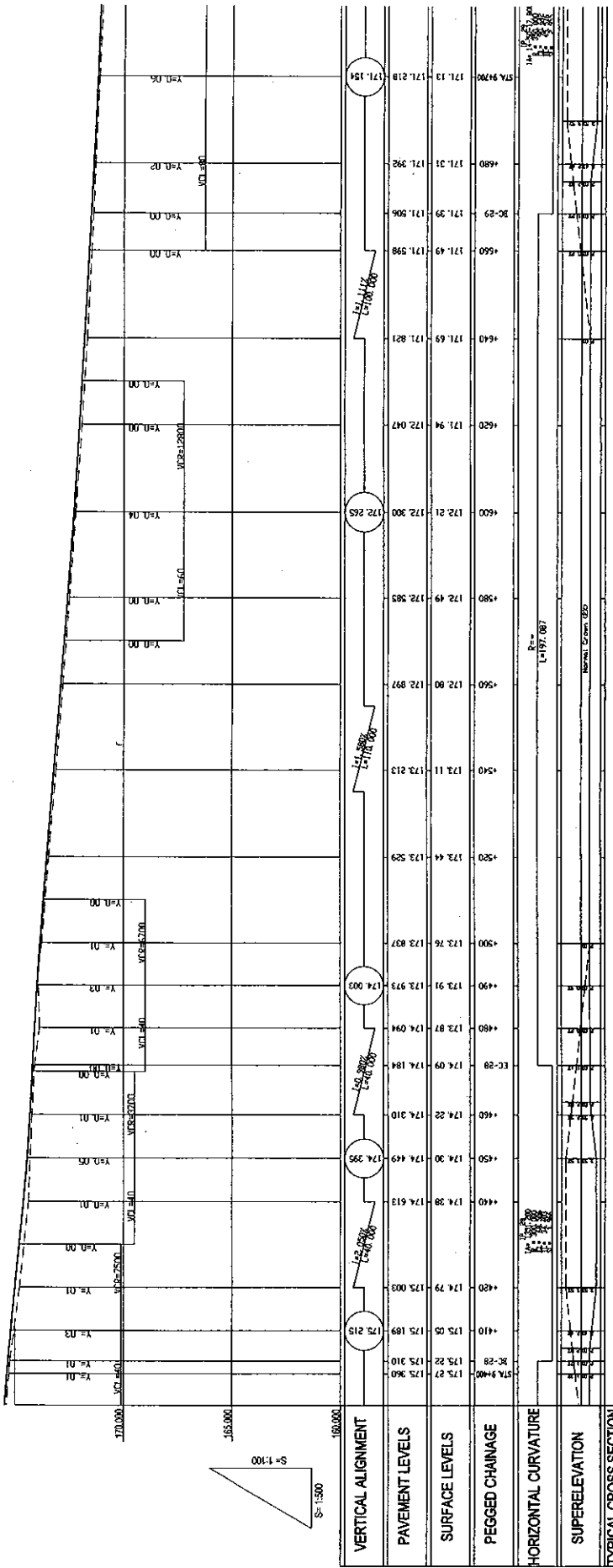
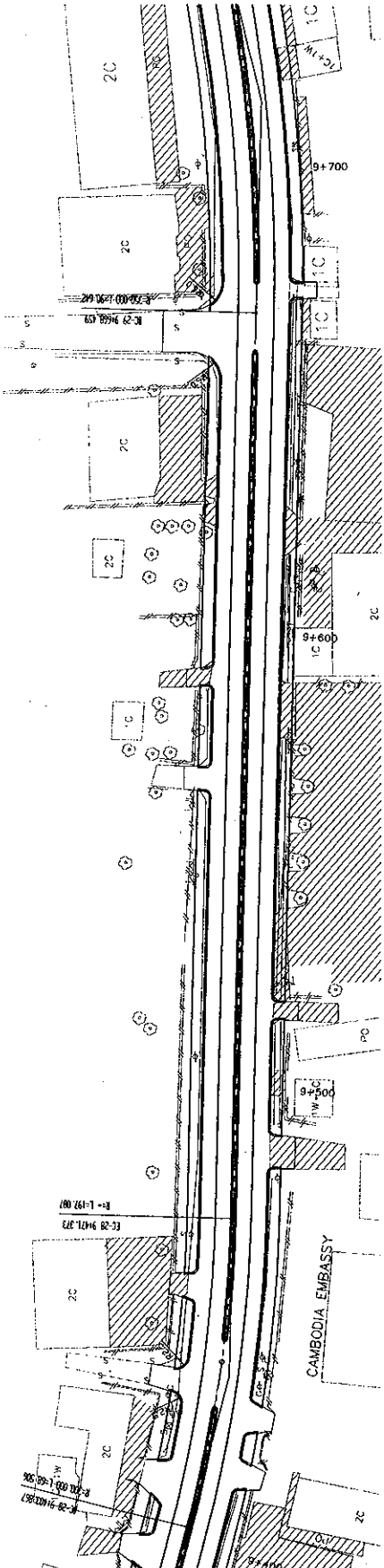
DRAWING NO:  
 PL-30

REV



DRAWING No. <b>PL-31</b>		SCALE: H=1:500 V=1:100
TITLE: JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD		PLAN AND PROFILE (STA. 9+100 - STA. 9+400)
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

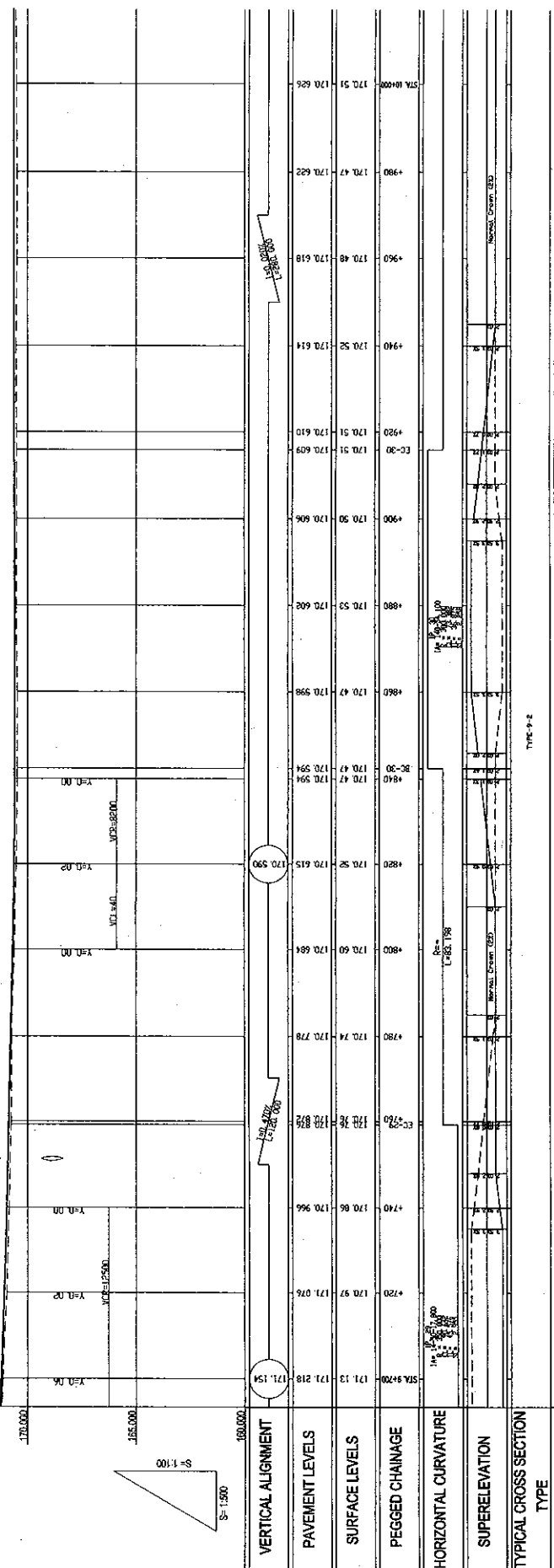
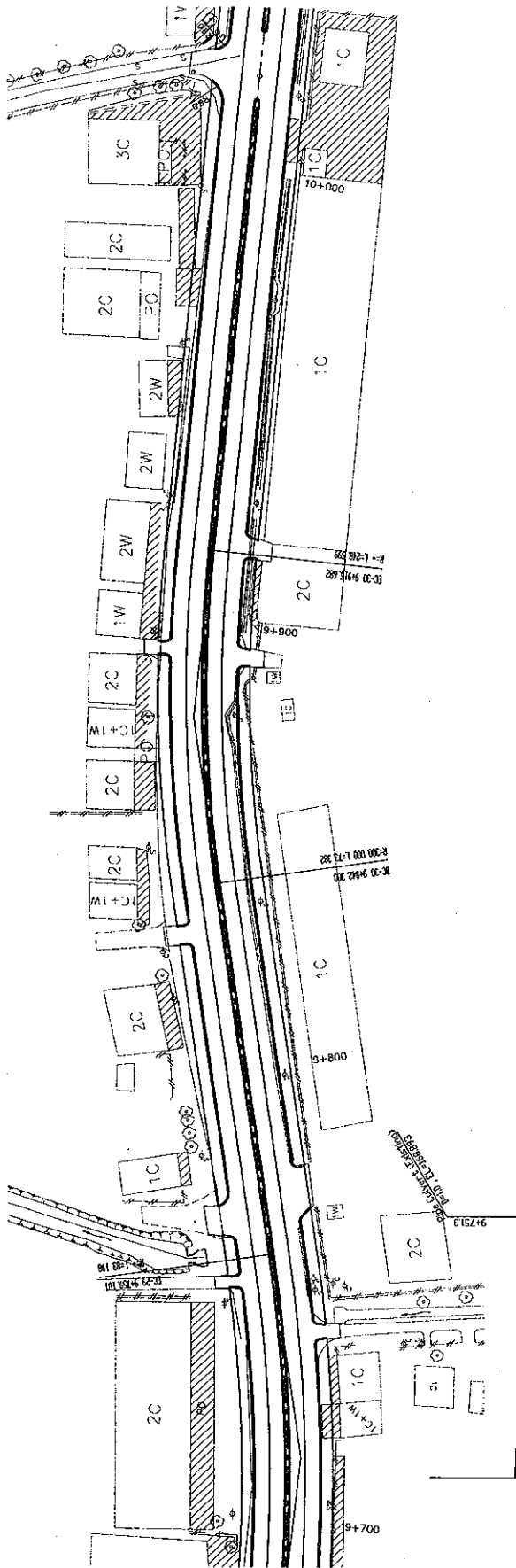
VERTICAL ALIGNMENT	176.219	176.431	176.891	176.721	176.808	176.811	176.777	176.711	176.608	176.470
PAVEMENT LEVELS	BC-28	BC-28	BC-28	BC-27	BC-27	BC-27	BC-27	BC-27	BC-27	BC-27
SURFACE LEVELS	175.05	175.27	175.310	175.59	175.83	176.06	176.162	176.254	176.263	176.310
PEGGED CHAINAGE	+110	+380	+360	+340	+330	+320	+300	+280	+260	+240
HORIZONTAL CURVATURE	STA 9+100 R=126.356 L=28.356	STA 9+400 R=200.359 L=200.359								
SUPERELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TYPICAL CROSS SECTION	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. 9+400 - STA. 9+700)
			SCALE:	H=1:500 V=1:100
			DRAWING NO:	PL-32
REV:				





VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
171.13	171.13	171.218	STA 9+700			TYPE 2-2
170.97	170.97	171.076	+720			
170.86	170.86	170.956	+740			TYPE 2-2
170.78	170.78	170.778	+780			
170.60	170.60	170.684	+800			TYPE 2-2
170.52	170.52	170.615	+820			
170.47	170.47	170.594	+840			TYPE 2-2
170.47	170.47	170.594	+860			
170.53	170.53	170.602	+880			TYPE 2-2
170.50	170.50	170.606	+900			
170.51	170.51	170.609	+920			TYPE 2-2
170.51	170.51	170.610	+940			
170.48	170.48	170.618	+960			TYPE 2-2
170.47	170.47	170.622	+980			
170.51	170.51	170.626	STA 9+000			TYPE 2-2

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

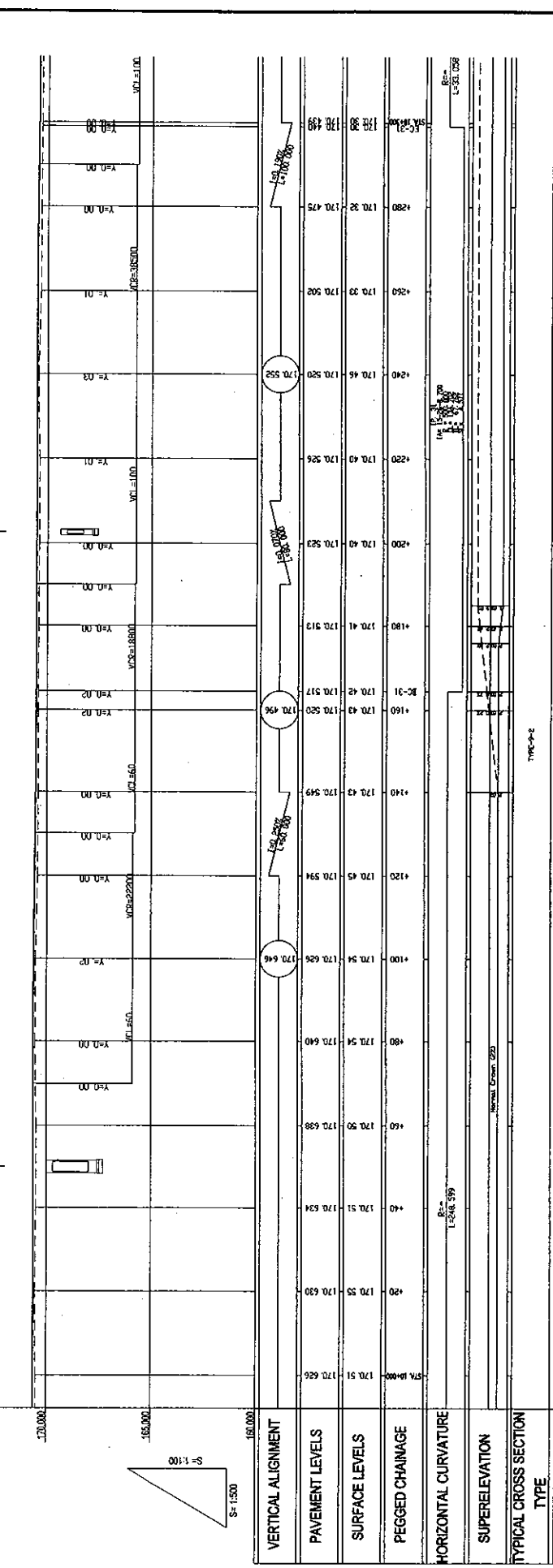
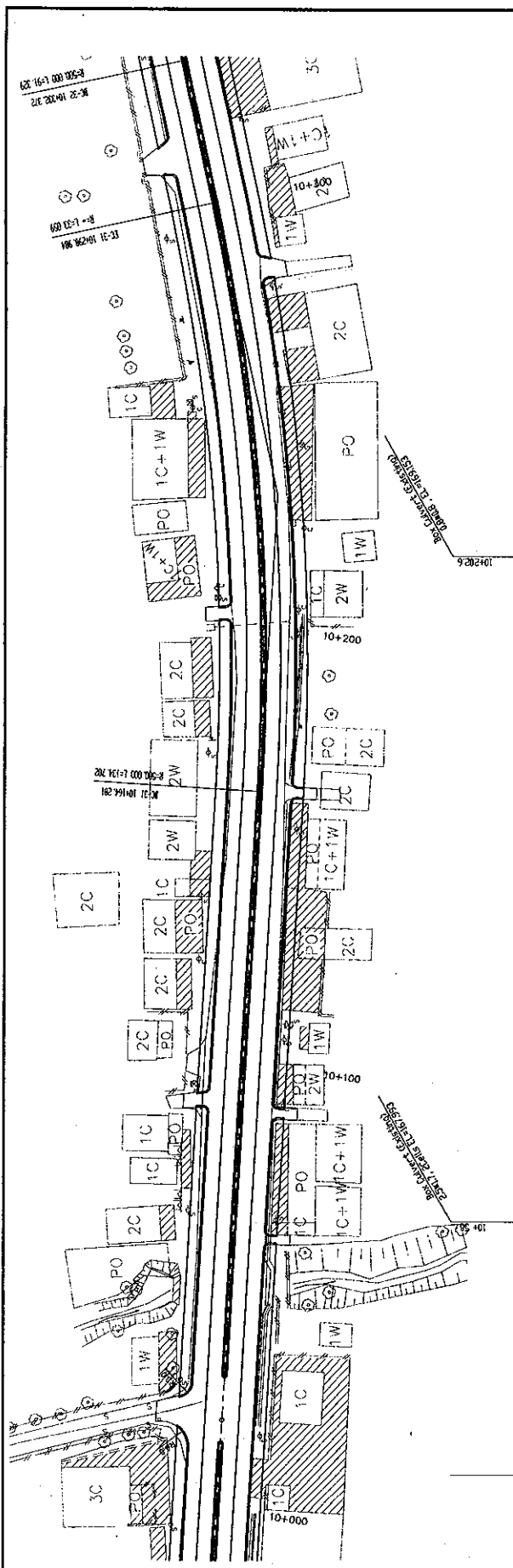
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CITI ENGINEERING INTERNATIONAL CO. LTD

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

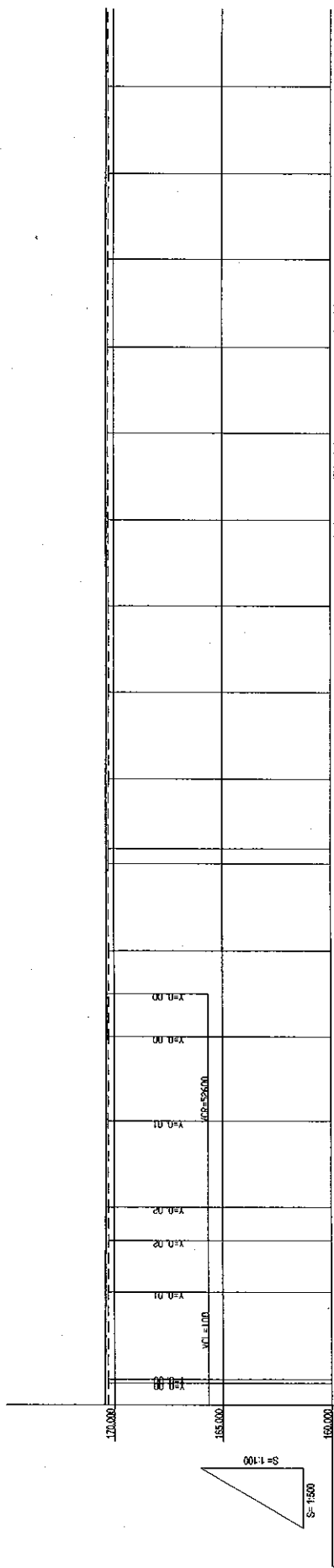
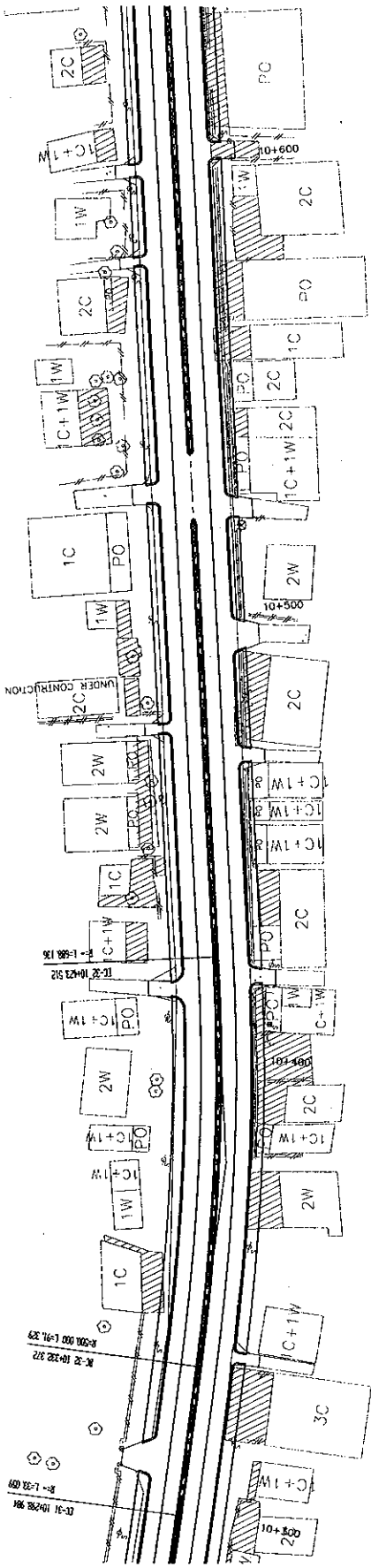
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DRAWING No:  
 PL-33

REV.

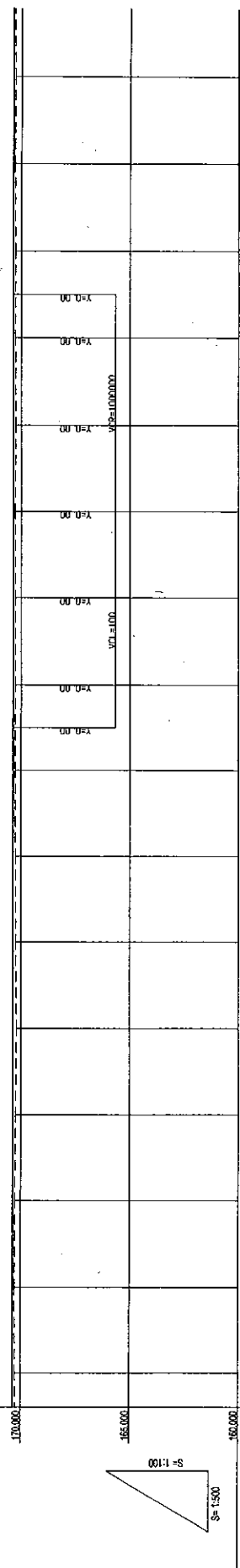
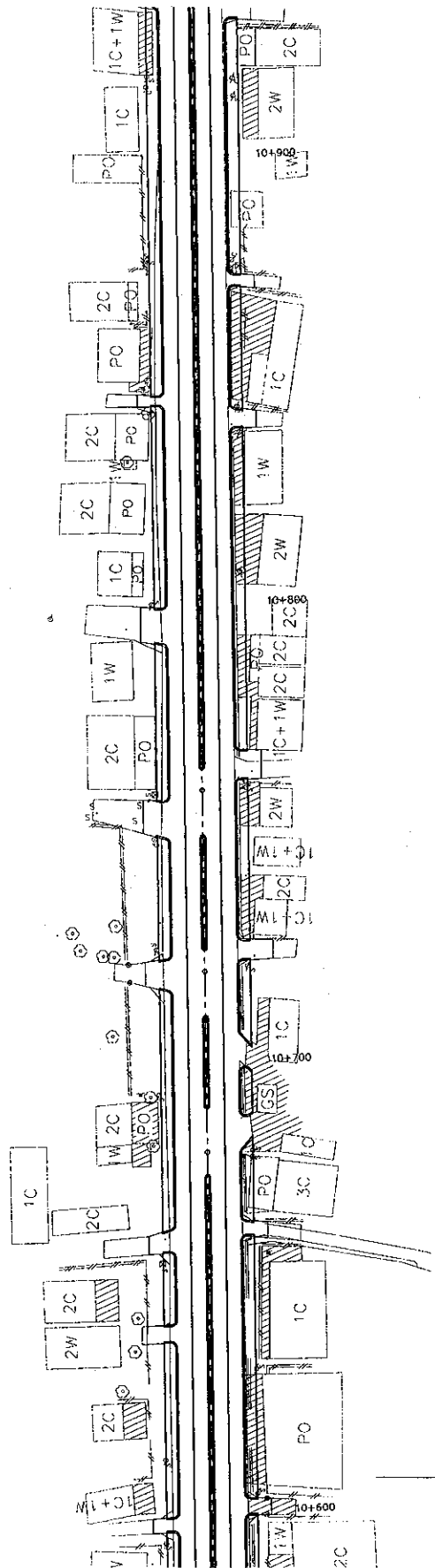


ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	PLAN AND PROFILE (STA. 10+000 - STA. 10+300)	SCALE: H=1:500 V=1:100	DRAWING No: <b>PL-34</b>
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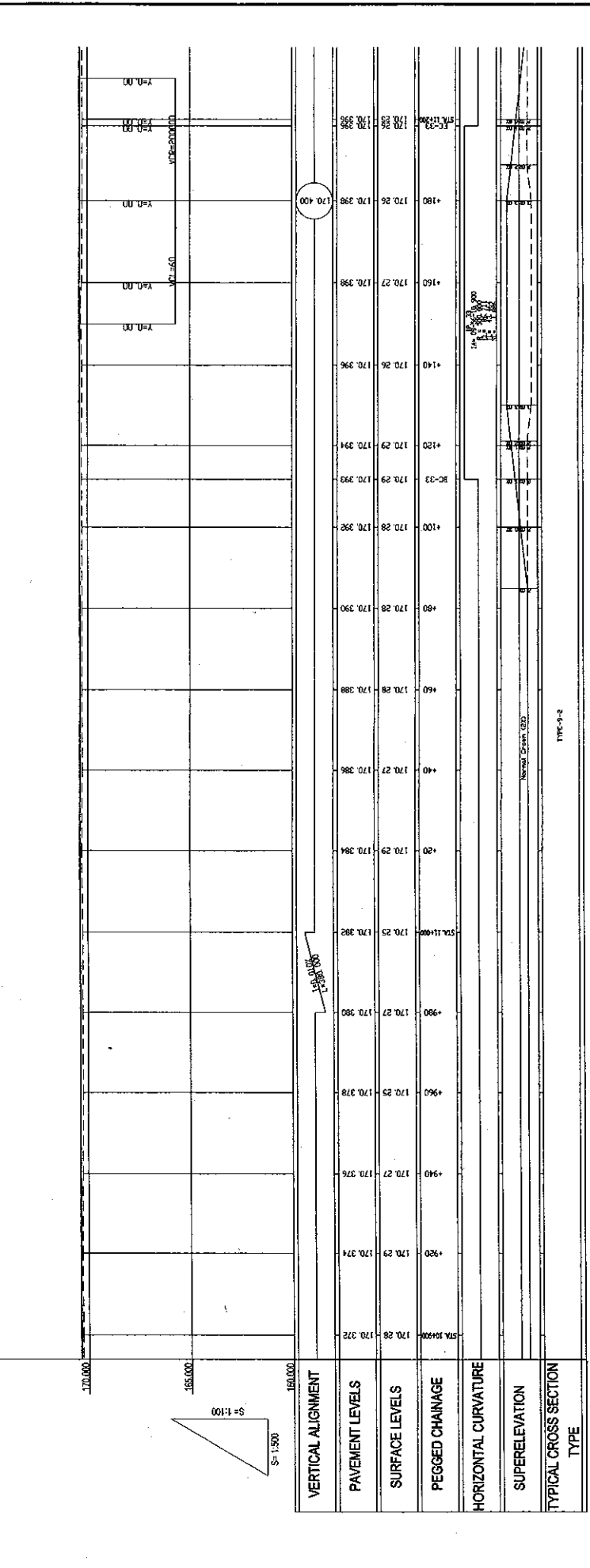
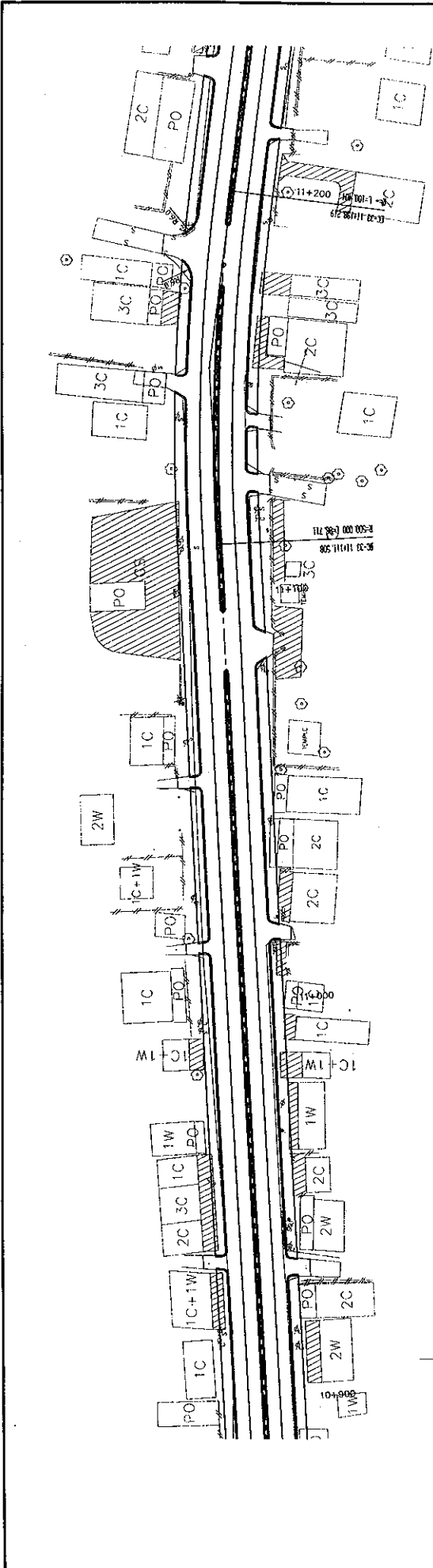
VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000	170.000	170.000	170.000			
165.000	170.000	170.000	170.000			
160.000	170.000	170.000	170.000			
	170.000	170.000	170.000			
	170.000	170.000	170.000			
	170.000	170.000	170.000			
	170.000	170.000	170.000			
	170.000	170.000	170.000			
	170.000	170.000	170.000			
	170.000	170.000	170.000			
	170.000	170.000	170.000			
	170.000	170.000	170.000			

DRAWING NO. **PL-35**  
 SCALE: H=1:500 V=1:100  
 TITLE: **PLAN AND PROFILE**  
 (STA. 10+300 - STA. 10+600)  
 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

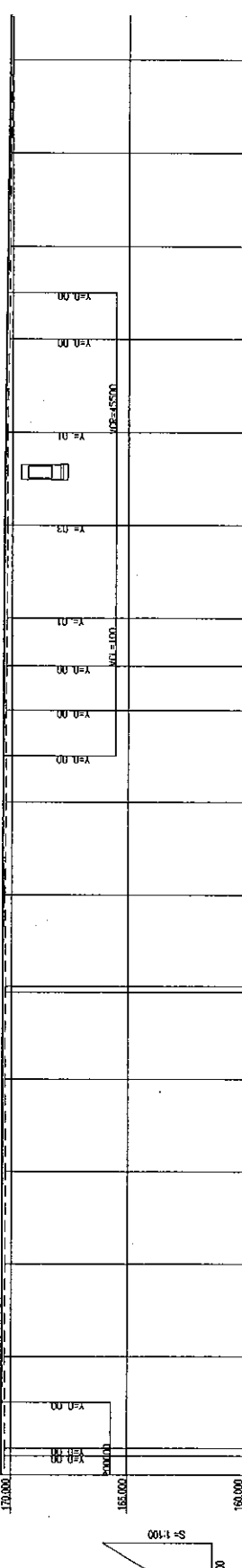
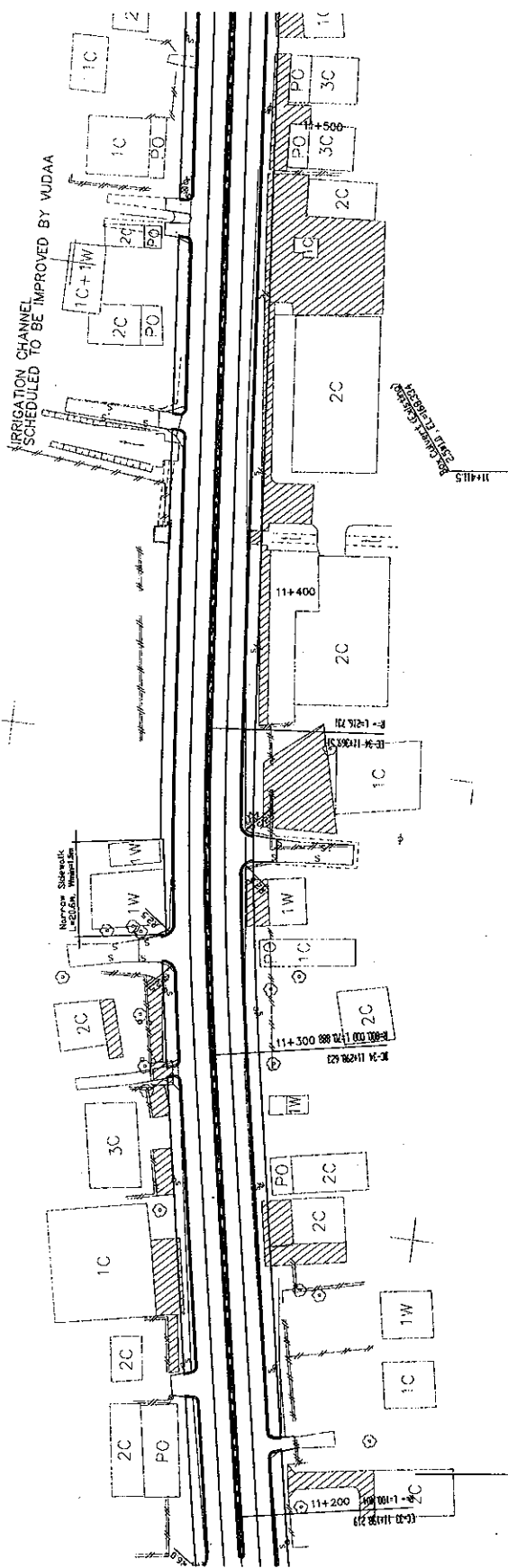


VERTICAL ALIGNMENT	STATION	ELEVATION
PAVEMENT LEVELS	170.28	170.372
SURFACE LEVELS	170.28	170.370
PEGGED CHANGE	170.27	170.368
HORIZONTAL CURVATURE	170.27	170.366
SUPERELEVATION	170.25	170.364
TYPICAL CROSS SECTION TYPE	170.25	170.364
	170.27	170.363
	170.26	170.362
	170.26	170.362
	170.26	170.362
	170.27	170.362
	170.23	170.362
	170.24	170.362
	170.19	170.362
	170.25	170.362
	170.25	170.362
	170.28	170.362
	170.26	170.362

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:	HE=1:500 V=1:100
			DRAWING NO:	PL-36

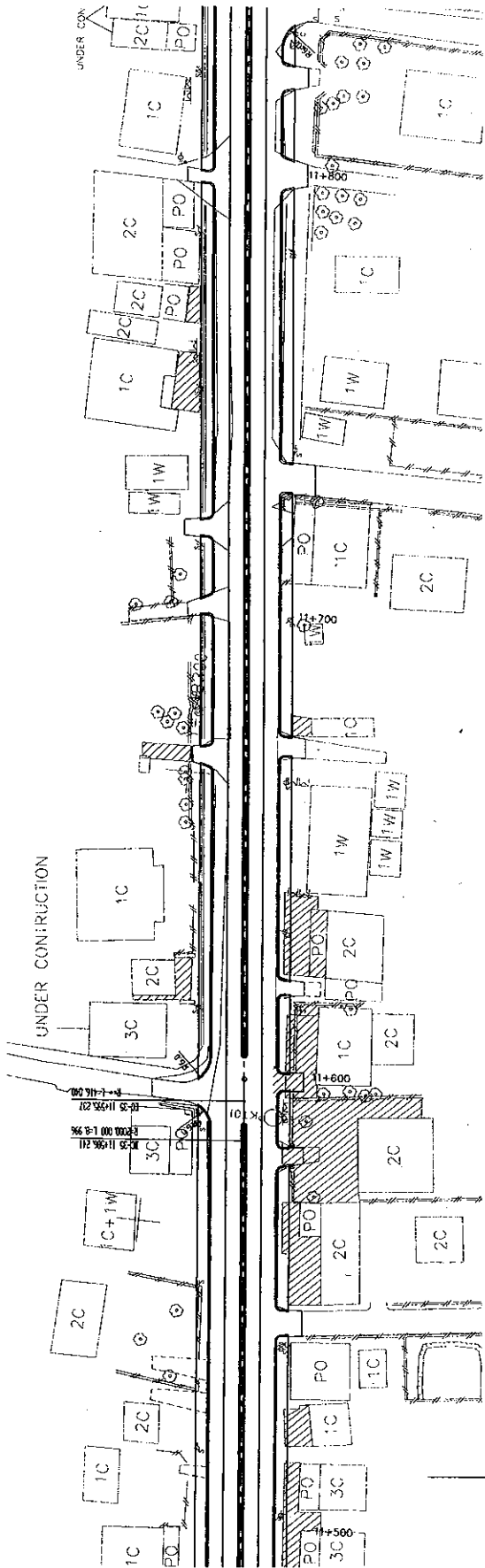


ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CIT ENGINEERING INTERNATIONAL CO. LTD	TITLE	PLAN AND PROFILE (STA. 10+900 - STA. 11+200)	SCALE:	H=1:500 V=1:100	DRAWING NO:	PL-37	REV.
			TYPE	TYPICAL CROSS SECTION	TYPE-3-2				



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
PAVEMENT LEVELS	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
SURFACE LEVELS	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
PEGGED CHAINAGE	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
HORIZONTAL CURVATURE	R=1000 L=100.000																				
SUPERELEVATION	Normal Crown 2%																				
TYPICAL CROSS SECTION	TYPE-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 VIETIANE 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. 11+200 - STA. 11+500)	SCALE:	DRAWING No:
				H=1:500 V=1:100	PL-38



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000			170.03			STA 11+500
			170.088			
			170.087			
			170.080			
			169.97			
			169.92			
			169.92			
			169.972			
			169.98			
			169.924			
			169.924			
			169.909			
			169.887			
			169.876			
			169.831			
			169.807			
			169.807			
			169.792			
			169.72			
			169.72			
			169.828			
			169.72			
			169.828			
			169.72			
			169.72			
			169.876			
			169.900			
			169.924			
			169.82			
			169.948			
			169.98			
			169.922			
			169.922			

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. 11+500 - STA. 11+600)

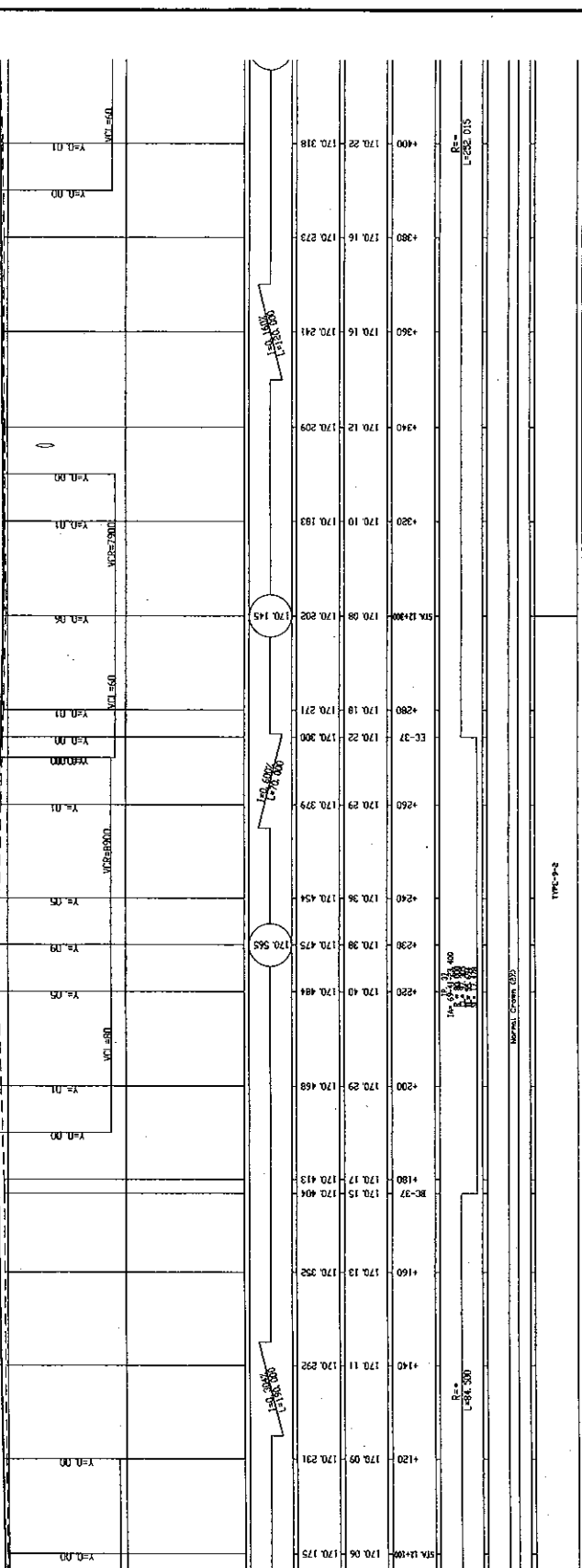
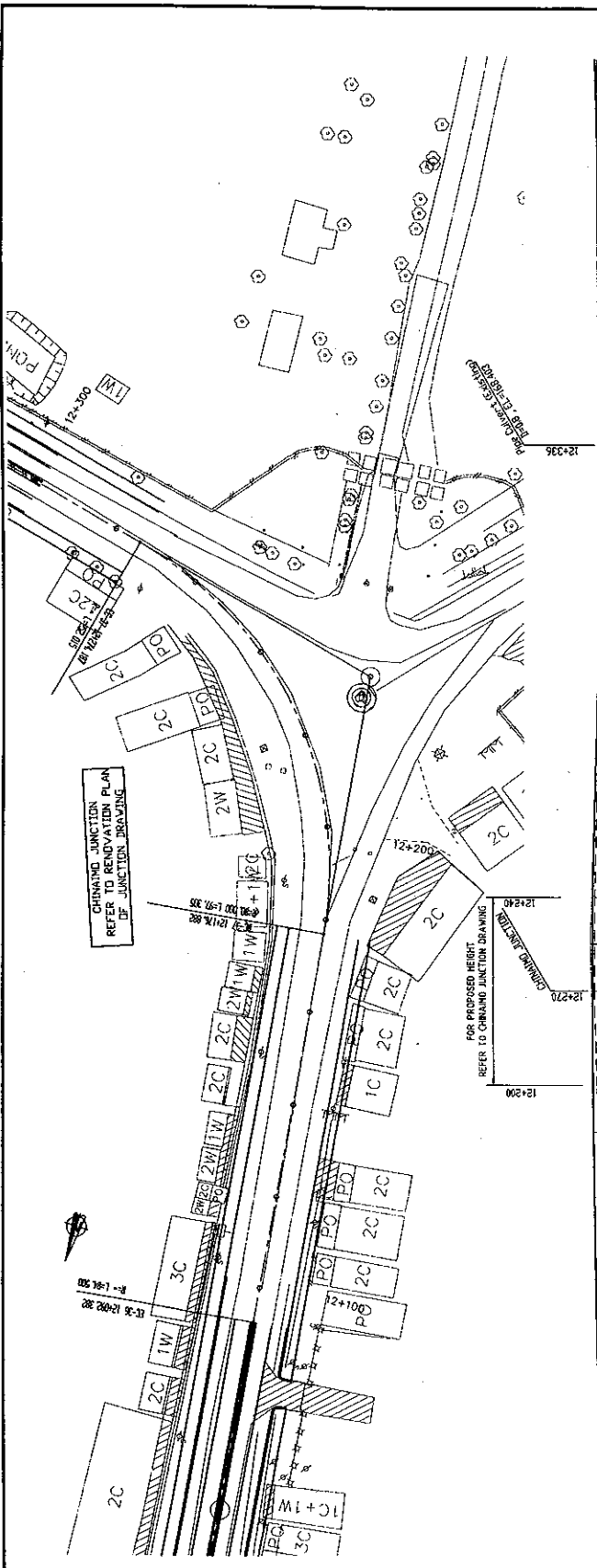
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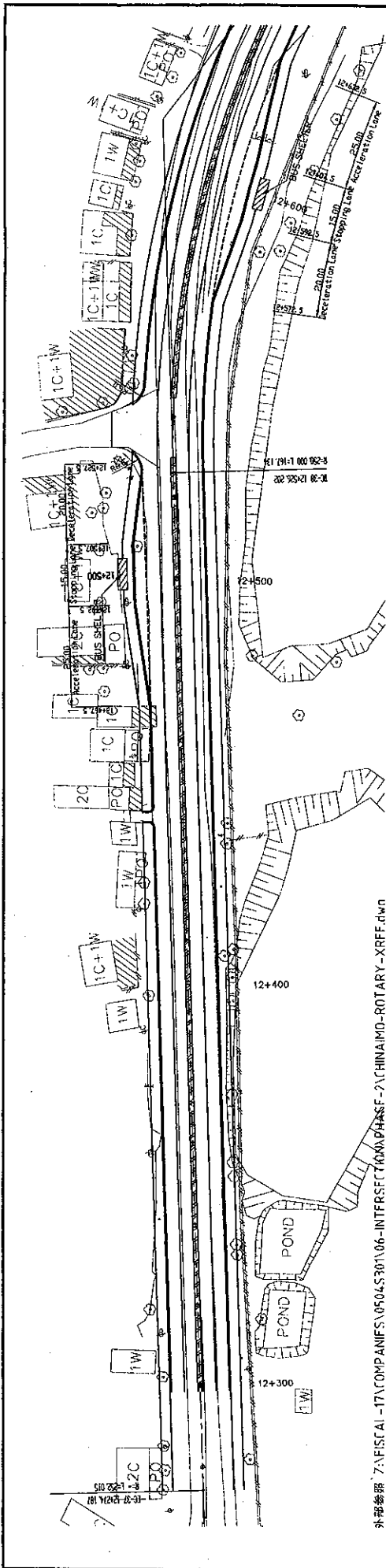
REV.





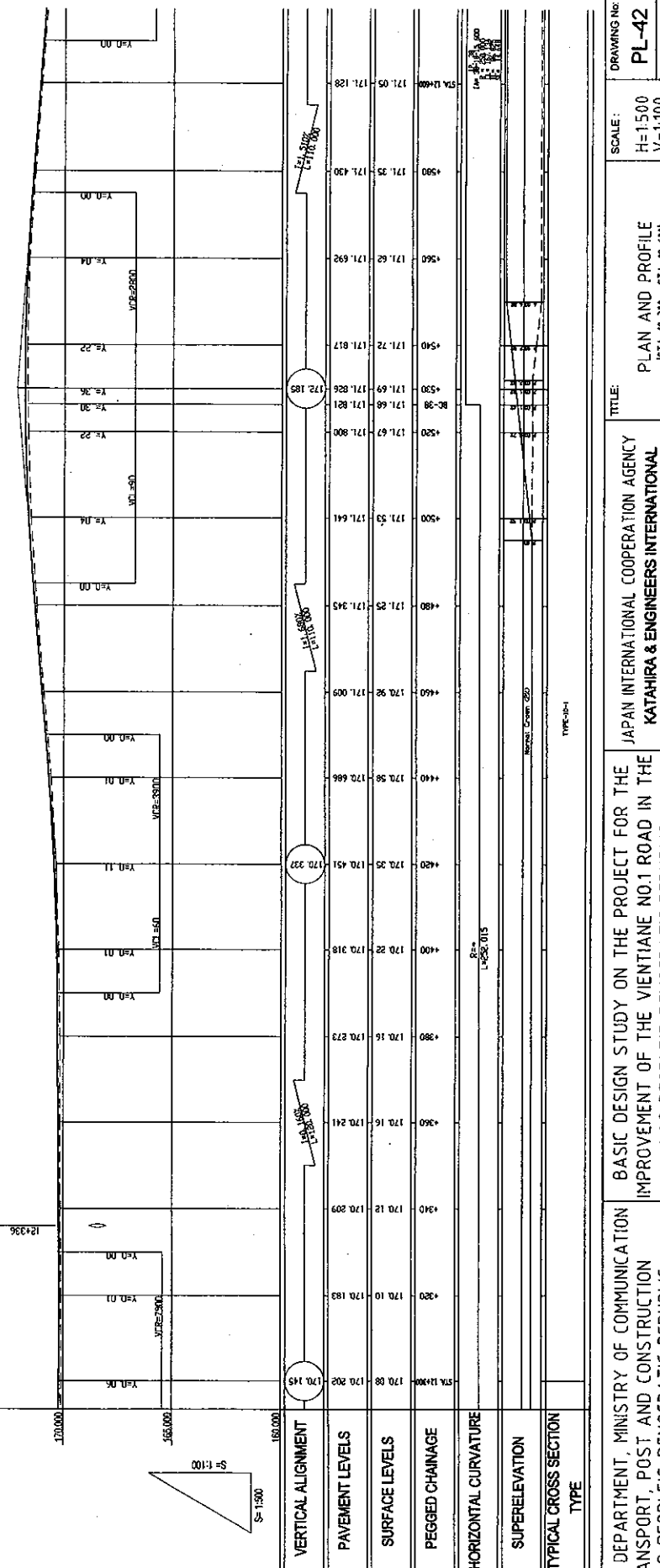


ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC		BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC		JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD		TITLE:		PLAN AND PROFILE (STA. 12+00 - STA. 12+300)		SCALE: H=1:500 V=1:100		DRAWING No: <b>PL-41</b>		REV.	
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Station 12+396  
 Station 12+380  
 Station 12+360



VERTICAL ALIGNMENT	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145	170.145
PAVEMENT LEVELS	170.08	170.12	170.16	170.20	170.24	170.28	170.32	170.36	170.40	170.44	170.48	170.52	170.56	170.60	170.64	170.68	170.72	170.76	170.80	170.84
SURFACE LEVELS	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88	170.88
PEGGED CHAINAGE	170.88	170.12	170.16	170.20	170.24	170.28	170.32	170.36	170.40	170.44	170.48	170.52	170.56	170.60	170.64	170.68	170.72	170.76	170.80	170.84
HORIZONTAL CURVATURE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUPERELEVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TYPICAL CROSS SECTION																				

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
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 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

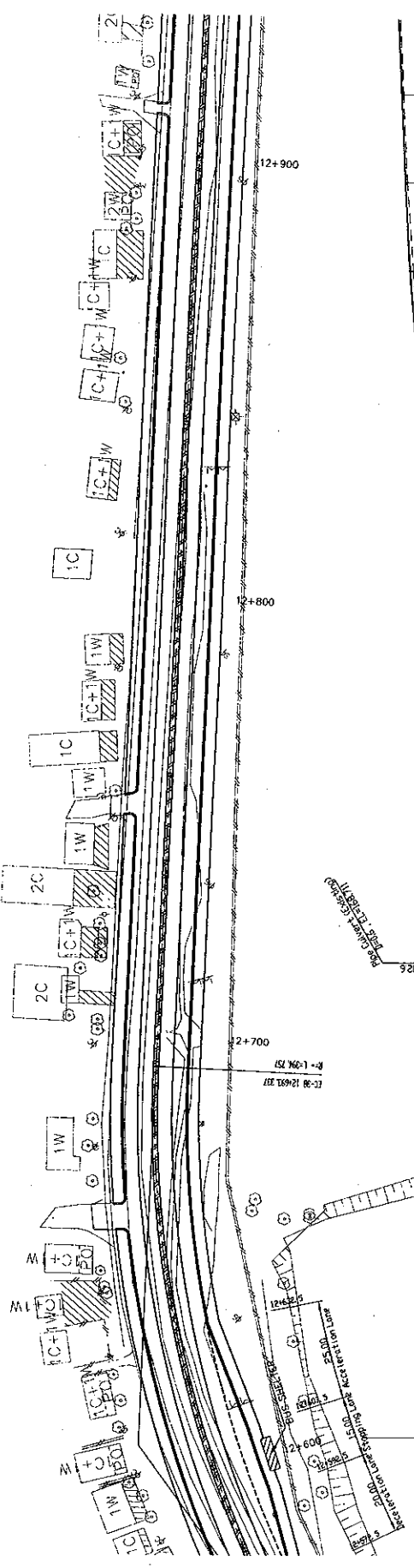
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PLAN AND PROFILE  
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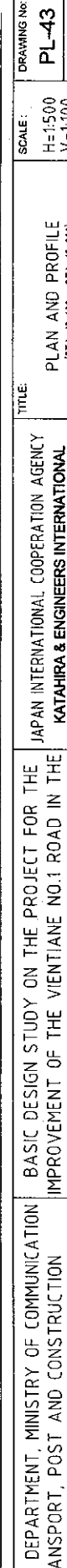
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DRAWING No:  
 PL-42

Rev



STATION	VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION
12+700	170.000					
12+710	170.01					
12+720	170.02					
12+730	170.10					
12+740	170.25					
12+750	170.76					
12+760	170.77					
12+770	171.23					
12+780	171.23					
12+790	171.69					
12+800	172.00					
12+810	172.33					
12+820	172.67					
12+830	172.96					
12+840	173.15					
12+850	173.23					
12+860	170.524					
12+870	170.51					
12+880	170.51					
12+890	170.48					
12+900	170.841					
12+910	171.02					
12+920	171.128					



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

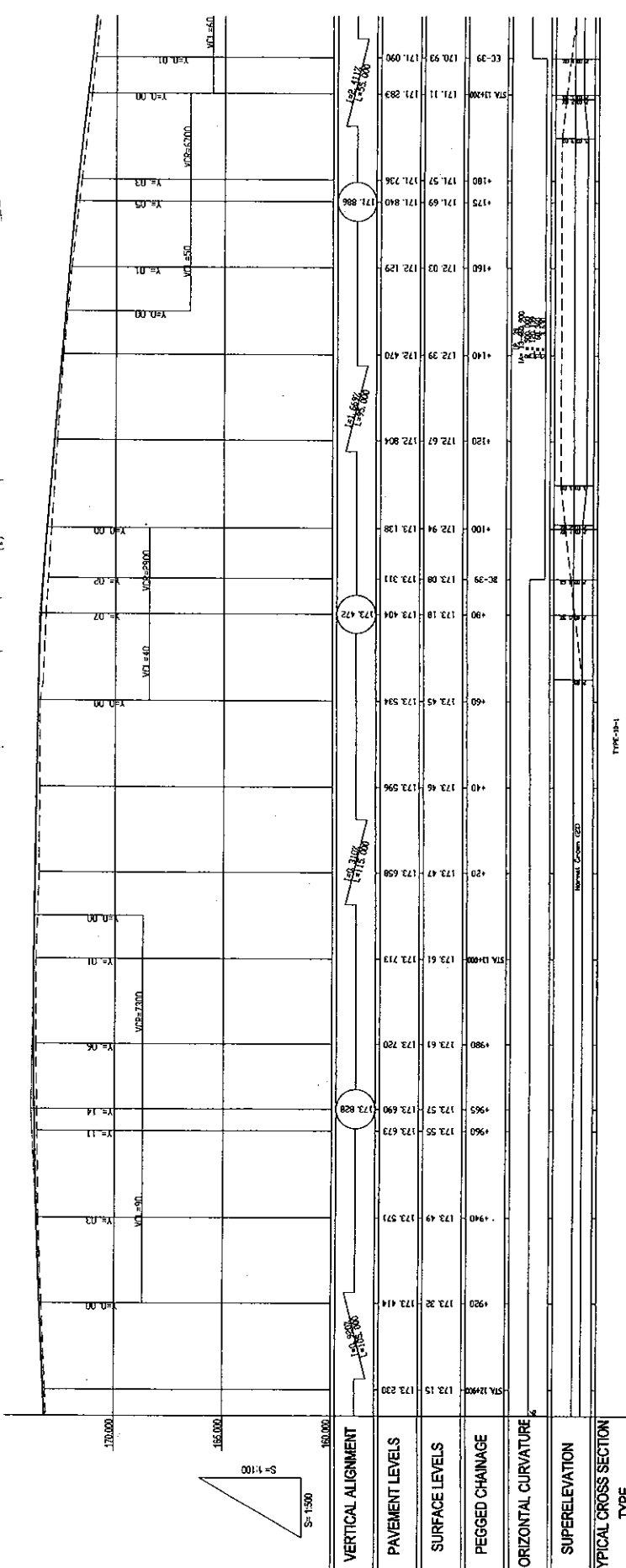
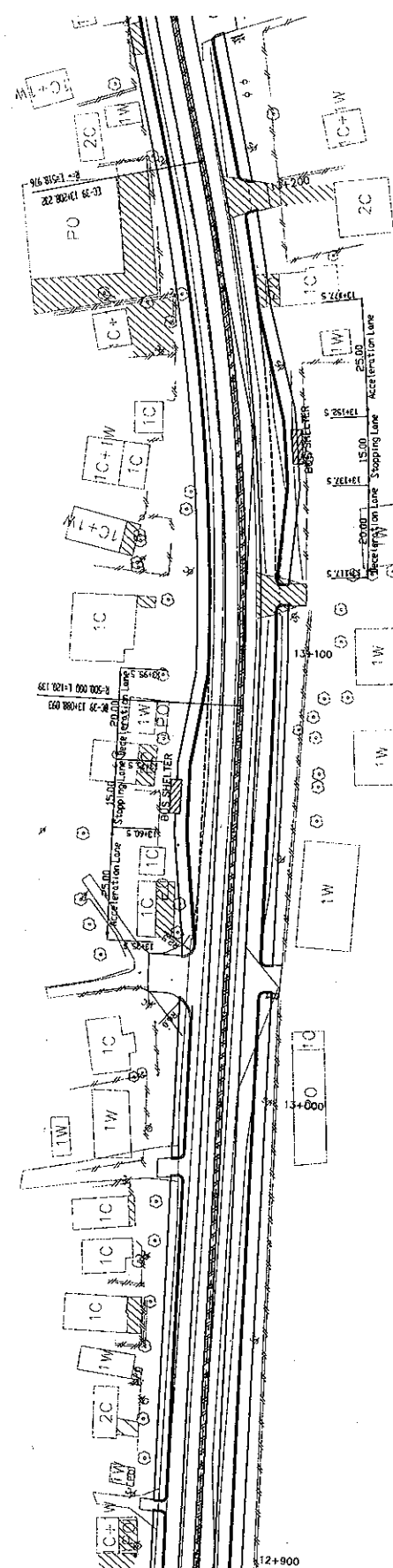
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CITI ENGINEERING INTERNATIONAL CO. LTD

TITLE

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

DRAWING NO: **PL-43**

REV.



TYPE	CROSS SECTION	SUPERELEVATION	HORIZONTAL CURVATURE	PEGGED CHANGAGE	SURFACE LEVELS	PAYEMENT LEVELS	VERTICAL ALIGNMENT
STRAIGHT	1:1	0.00	0.00	0.00	173.15	173.230	173.230
STRAIGHT	1:1	0.00	0.00	0.00	173.20	173.414	173.414
STRAIGHT	1:1	0.00	0.00	0.00	173.49	173.573	173.573
STRAIGHT	1:1	0.00	0.00	0.00	173.55	173.673	173.673
STRAIGHT	1:1	0.00	0.00	0.00	173.57	173.690	173.690
STRAIGHT	1:1	0.00	0.00	0.00	173.61	173.720	173.720
STRAIGHT	1:1	0.00	0.00	0.00	173.61	173.713	173.713
STRAIGHT	1:1	0.00	0.00	0.00	173.47	173.659	173.659
STRAIGHT	1:1	0.00	0.00	0.00	173.46	173.596	173.596
STRAIGHT	1:1	0.00	0.00	0.00	173.45	173.534	173.534
STRAIGHT	1:1	0.00	0.00	0.00	173.18	173.404	173.404
STRAIGHT	1:1	0.00	0.00	0.00	173.08	173.311	173.311
STRAIGHT	1:1	0.00	0.00	0.00	172.94	173.138	173.138
STRAIGHT	1:1	0.00	0.00	0.00	172.67	172.904	172.904
STRAIGHT	1:1	0.00	0.00	0.00	172.39	172.470	172.470
STRAIGHT	1:1	0.00	0.00	0.00	172.03	172.129	172.129
STRAIGHT	1:1	0.00	0.00	0.00	171.69	171.840	171.840
STRAIGHT	1:1	0.00	0.00	0.00	171.57	171.736	171.736
STRAIGHT	1:1	0.00	0.00	0.00	171.11	171.283	171.283
STRAIGHT	1:1	0.00	0.00	0.00	170.99	171.090	171.090

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

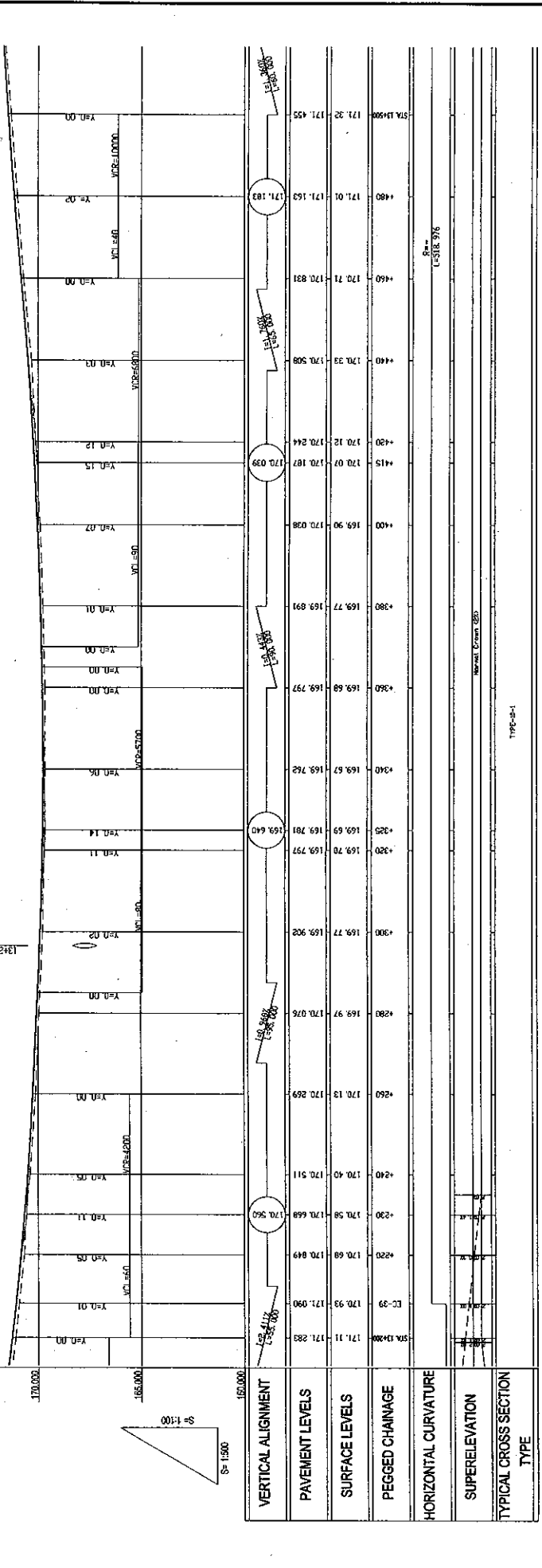
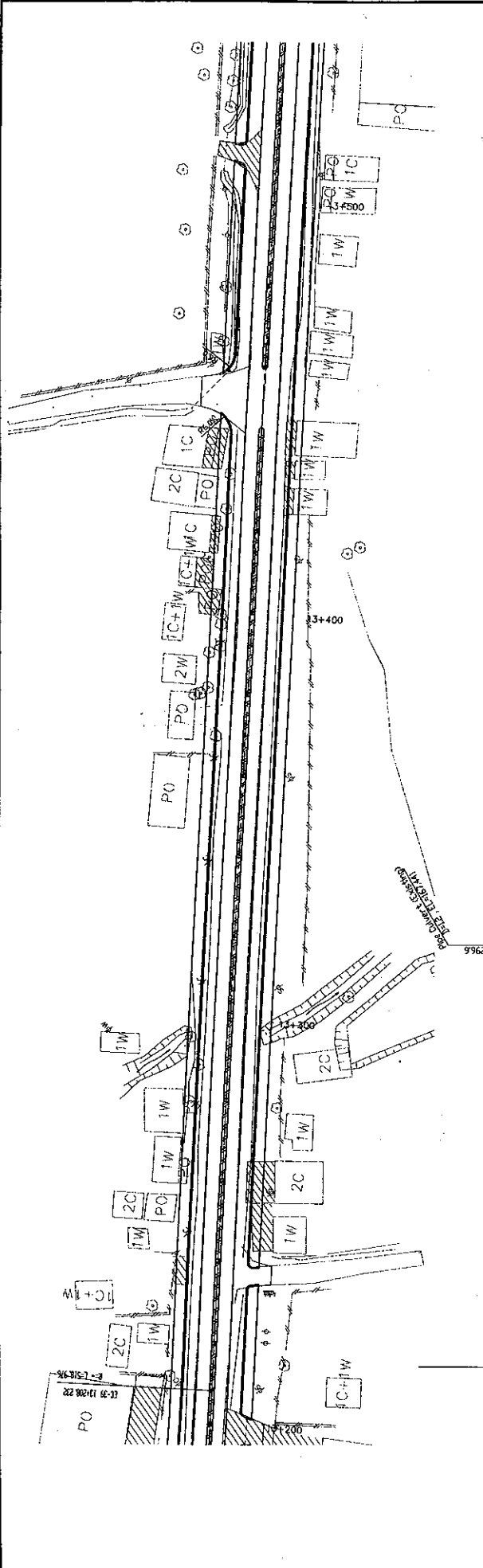
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD

PLAN AND PROFILE (STA 0+000 - STA 6+200)

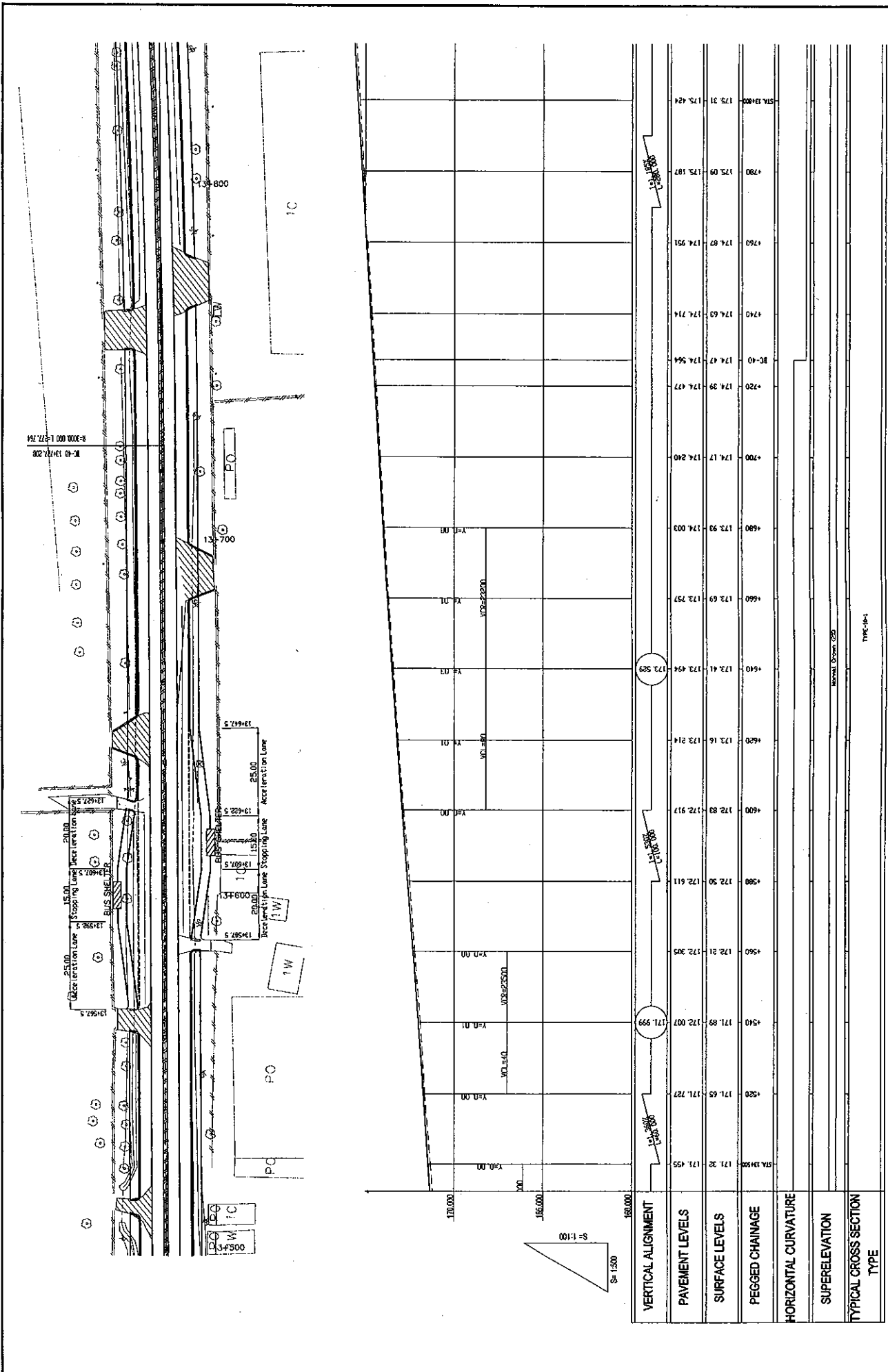
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DRAWING NO: PL-44

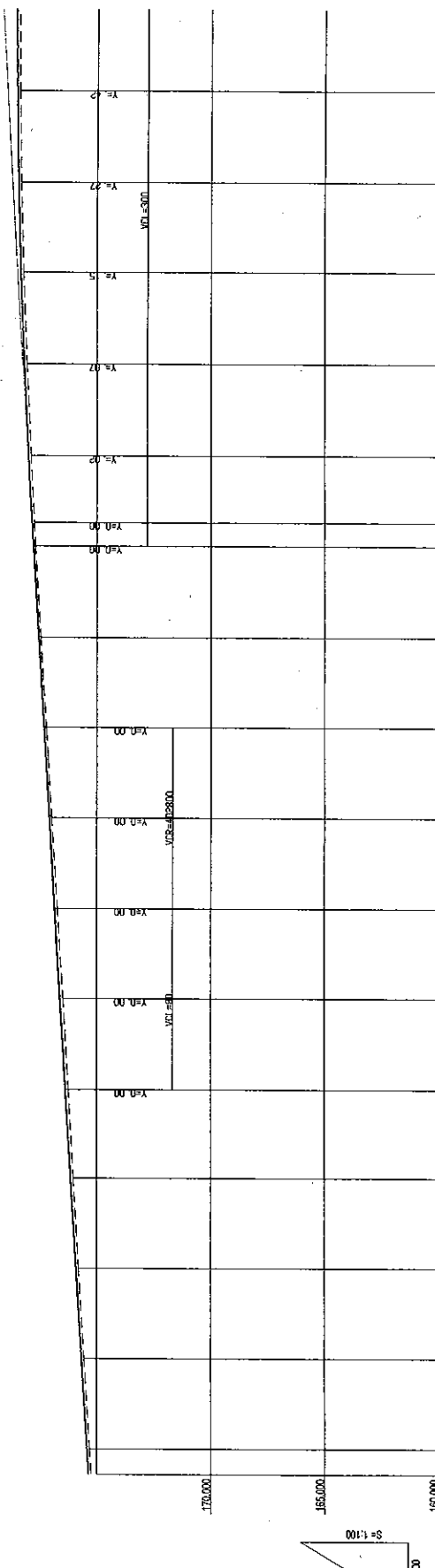
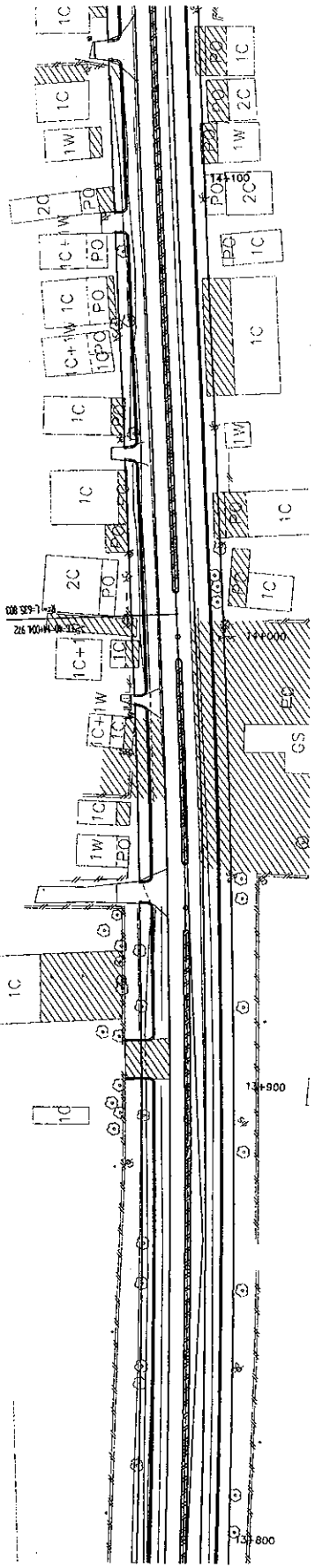
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ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC	BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF THE VIENTIANE NO.1 ROAD IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	PLAN AND PROFILE (STA. B-200 - STA. B-500)	SCALE: H=1:500 V=1:100	DRAWING No: <b>PL-45</b>
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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. 13+500 - STA. 13+800)	SCALE:	H=1:500 V=1:100	DRAWING NO:	PL-46
			TYPE: 10-1					



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
STA 14+800	178.39	178.322				
+80	178.32	178.400				
+60	178.21	178.323				
+40	178.06	178.176				
+20	177.88	177.994				
EC-60	177.74	177.836				
STA 14+600	177.69	177.778				
+80	177.46	177.545				
+60	177.21	177.312				
+40	176.98	177.078				
+20	176.72	176.844				
EC-40	176.49	176.609				
+80	176.24	176.372				
+60	176.02	176.135				
+40	175.79	175.898				
+20	175.55	175.661				
STA 14+400	175.31	175.424				

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

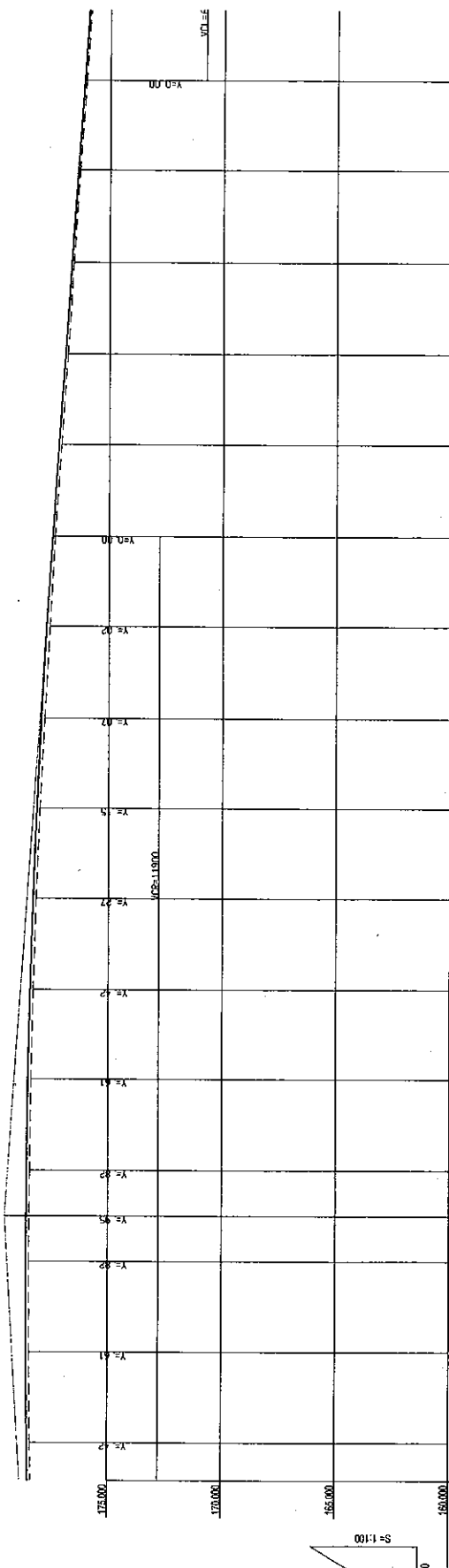
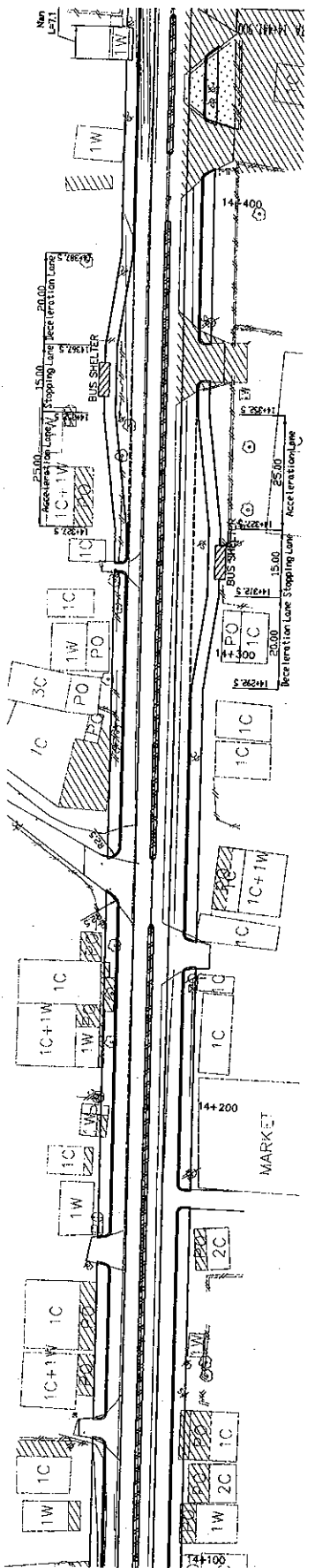
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE  
 (STA. 13+800 - STA. 14+800)

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

DRAWING NO: PL-47

RV:



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
STA 14+000	176.04	176.125	176.297			
+300	176.28	176.297	176.669			
+360	176.98	176.669	176.941			
+430	176.84	176.941	177.213			
+500	177.10	177.213	177.485			
+600	177.38	177.485	177.740			
+700	177.59	177.740	177.962			
+800	177.82	177.962	178.150			
+900	178.02	178.150	178.304			
+1000	178.16	178.304	178.424			
+1100	178.29	178.424	178.511			
+1200	178.38	178.511	178.564			
+1300	178.43	178.564	178.578			
+1400	178.47	178.584	178.570			
+1500	178.45	178.578	178.562			
+1600	178.43	178.564	178.544			
+1700	178.40	178.538	178.526			
+1800	178.38	178.511	178.508			
+1900	178.36	178.484	178.490			
+2000	178.34	178.457	178.472			
+2100	178.32	178.430	178.454			
+2200	178.30	178.403	178.436			
+2300	178.28	178.376	178.418			
+2400	178.26	178.349	178.400			
+2500	178.24	178.322	178.382			
+2600	178.22	178.295	178.364			
+2700	178.20	178.268	178.346			
+2800	178.18	178.241	178.328			
+2900	178.16	178.214	178.310			
+3000	178.14	178.187	178.292			
+3100	178.12	178.160	178.274			
+3200	178.10	178.133	178.256			
+3300	178.08	178.106	178.238			
+3400	178.06	178.079	178.220			
+3500	178.04	178.052	178.202			
+3600	178.02	178.025	178.184			
+3700	178.00	178.000	178.166			
+3800	177.98	177.975	178.148			
+3900	177.96	177.950	178.130			
+4000	177.94	177.925	178.112			
+4100	177.92	177.900	178.094			
+4200	177.90	177.875	178.076			
+4300	177.88	177.850	178.058			
+4400	177.86	177.825	178.040			
+4500	177.84	177.800	178.022			
+4600	177.82	177.775	178.004			
+4700	177.80	177.750	177.986			
+4800	177.78	177.725	177.968			
+4900	177.76	177.700	177.950			
+5000	177.74	177.675	177.932			
+5100	177.72	177.650	177.914			
+5200	177.70	177.625	177.896			
+5300	177.68	177.600	177.878			
+5400	177.66	177.575	177.860			
+5500	177.64	177.550	177.842			
+5600	177.62	177.525	177.824			
+5700	177.60	177.500	177.806			
+5800	177.58	177.475	177.788			
+5900	177.56	177.450	177.770			
+6000	177.54	177.425	177.752			
+6100	177.52	177.400	177.734			
+6200	177.50	177.375	177.716			
+6300	177.48	177.350	177.698			
+6400	177.46	177.325	177.680			
+6500	177.44	177.300	177.662			
+6600	177.42	177.275	177.644			
+6700	177.40	177.250	177.626			
+6800	177.38	177.225	177.608			
+6900	177.36	177.200	177.590			
+7000	177.34	177.175	177.572			
+7100	177.32	177.150	177.554			
+7200	177.30	177.125	177.536			
+7300	177.28	177.100	177.518			
+7400	177.26	177.075	177.500			
+7500	177.24	177.050	177.482			
+7600	177.22	177.025	177.464			
+7700	177.20	177.000	177.446			
+7800	177.18	176.975	177.428			
+7900	177.16	176.950	177.410			
+8000	177.14	176.925	177.392			
+8100	177.12	176.900	177.374			
+8200	177.10	176.875	177.356			
+8300	177.08	176.850	177.338			
+8400	177.06	176.825	177.320			
+8500	177.04	176.800	177.302			
+8600	177.02	176.775	177.284			
+8700	177.00	176.750	177.266			
+8800	176.98	176.725	177.248			
+8900	176.96	176.700	177.230			
+9000	176.94	176.675	177.212			
+9100	176.92	176.650	177.194			
+9200	176.90	176.625	177.176			
+9300	176.88	176.600	177.158			
+9400	176.86	176.575	177.140			
+9500	176.84	176.550	177.122			
+9600	176.82	176.525	177.104			
+9700	176.80	176.500	177.086			
+9800	176.78	176.475	177.068			
+9900	176.76	176.450	177.050			
+10000	176.74	176.425	177.032			

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

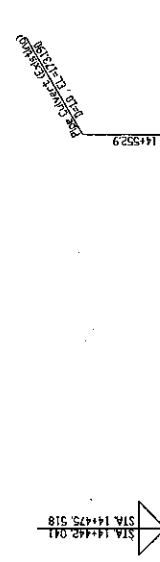
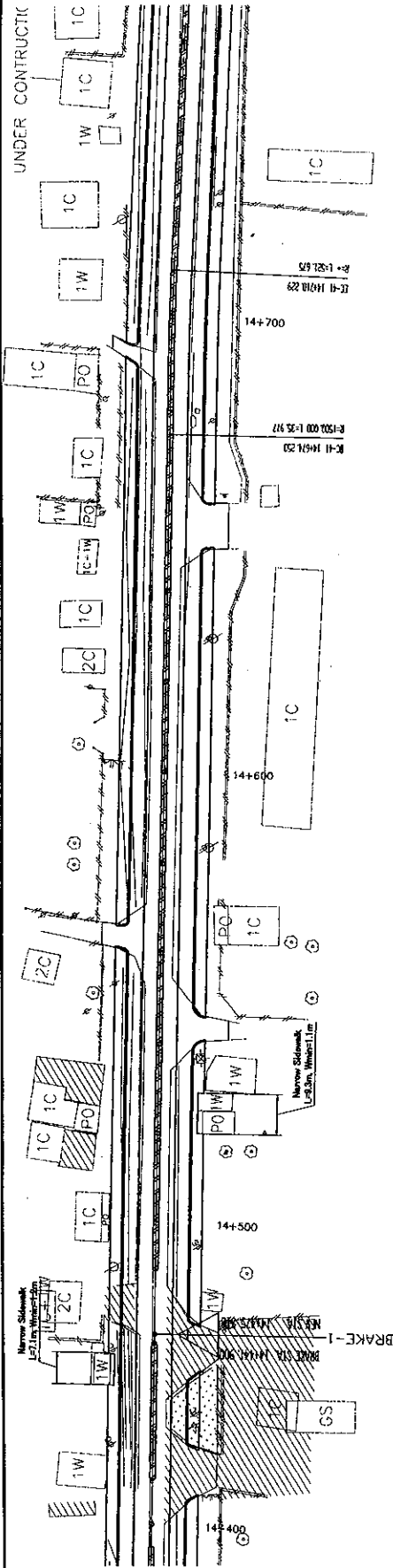
PLAN AND PROFILE  
(STA. 14+100 - STA. 14+400)

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

DRAWING No: PL-48

Rev: \_\_\_\_\_





VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
175.000	175.00	175.00	175.00			
170.000	170.00	170.00	170.00			
165.000	165.00	165.00	165.00			
175.025	175.025	175.025	175.025			
175.050	175.050	175.050	175.050			
175.075	175.075	175.075	175.075			
175.100	175.100	175.100	175.100			
175.125	175.125	175.125	175.125			
175.150	175.150	175.150	175.150			
175.175	175.175	175.175	175.175			
175.200	175.200	175.200	175.200			
175.225	175.225	175.225	175.225			
175.250	175.250	175.250	175.250			
175.275	175.275	175.275	175.275			
175.300	175.300	175.300	175.300			
175.325	175.325	175.325	175.325			
175.350	175.350	175.350	175.350			
175.375	175.375	175.375	175.375			
175.400	175.400	175.400	175.400			
175.425	175.425	175.425	175.425			
175.450	175.450	175.450	175.450			
175.475	175.475	175.475	175.475			
175.500	175.500	175.500	175.500			
175.525	175.525	175.525	175.525			
175.550	175.550	175.550	175.550			
175.575	175.575	175.575	175.575			
175.600	175.600	175.600	175.600			
175.625	175.625	175.625	175.625			
175.650	175.650	175.650	175.650			
175.675	175.675	175.675	175.675			
175.700	175.700	175.700	175.700			
175.725	175.725	175.725	175.725			
175.750	175.750	175.750	175.750			
175.775	175.775	175.775	175.775			
175.800	175.800	175.800	175.800			
175.825	175.825	175.825	175.825			
175.850	175.850	175.850	175.850			
175.875	175.875	175.875	175.875			
175.900	175.900	175.900	175.900			
175.925	175.925	175.925	175.925			
175.950	175.950	175.950	175.950			
175.975	175.975	175.975	175.975			
176.000	176.000	176.000	176.000			
176.025	176.025	176.025	176.025			
176.050	176.050	176.050	176.050			
176.075	176.075	176.075	176.075			
176.100	176.100	176.100	176.100			
176.125	176.125	176.125	176.125			
176.150	176.150	176.150	176.150			
176.175	176.175	176.175	176.175			
176.200	176.200	176.200	176.200			
176.225	176.225	176.225	176.225			
176.250	176.250	176.250	176.250			
176.275	176.275	176.275	176.275			
176.300	176.300	176.300	176.300			
176.325	176.325	176.325	176.325			
176.350	176.350	176.350	176.350			
176.375	176.375	176.375	176.375			
176.400	176.400	176.400	176.400			
176.425	176.425	176.425	176.425			
176.450	176.450	176.450	176.450			
176.475	176.475	176.475	176.475			
176.500	176.500	176.500	176.500			
176.525	176.525	176.525	176.525			
176.550	176.550	176.550	176.550			
176.575	176.575	176.575	176.575			
176.600	176.600	176.600	176.600			
176.625	176.625	176.625	176.625			
176.650	176.650	176.650	176.650			
176.675	176.675	176.675	176.675			
176.700	176.700	176.700	176.700			
176.725	176.725	176.725	176.725			
176.750	176.750	176.750	176.750			
176.775	176.775	176.775	176.775			
176.800	176.800	176.800	176.800			
176.825	176.825	176.825	176.825			
176.850	176.850	176.850	176.850			
176.875	176.875	176.875	176.875			
176.900	176.900	176.900	176.900			
176.925	176.925	176.925	176.925			
176.950	176.950	176.950	176.950			
176.975	176.975	176.975	176.975			
177.000	177.000	177.000	177.000			

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

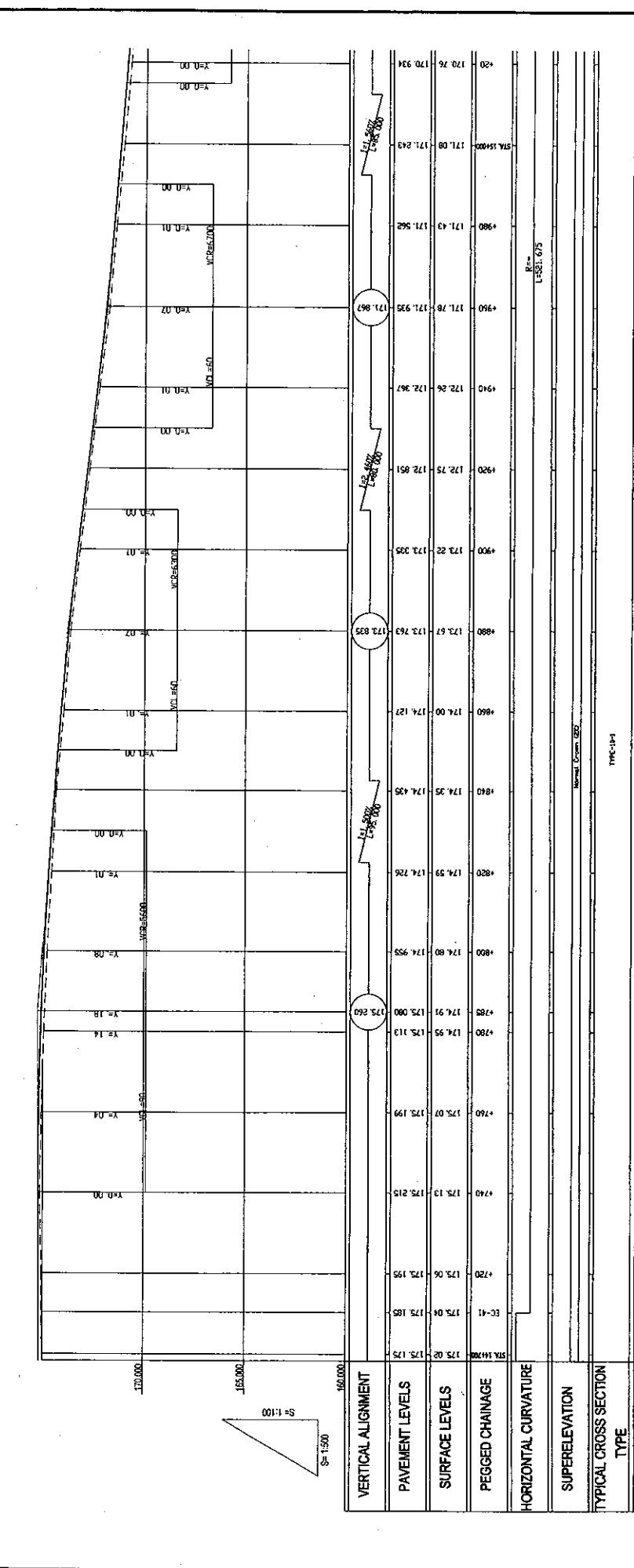
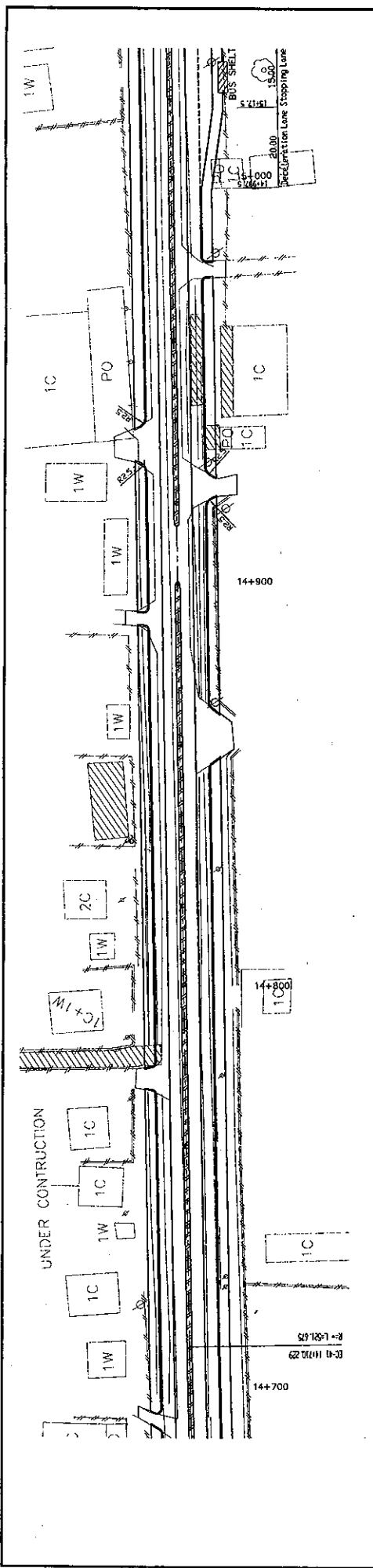
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO. LTD

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

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

DRAWING NO: PL-49

Rev.



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
175.02	175.06	175.06	EC-41			
175.175	175.185	175.185				
175.199	175.195	175.195				
175.113	175.113	175.113				
175.000	175.000	175.000				
174.955	174.955	174.955				
174.726	174.726	174.726				
174.435	174.435	174.435				
174.127	174.127	174.127				
173.763	173.763	173.763				
173.325	173.325	173.325				
172.935	172.935	172.935				
172.581	172.581	172.581				
172.267	172.267	172.267				
171.935	171.935	171.935				
171.562	171.562	171.562				
171.243	171.243	171.243				
170.934	170.934	170.934				

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  
 C/I ENGINEERING INTERNATIONAL CO. LTD

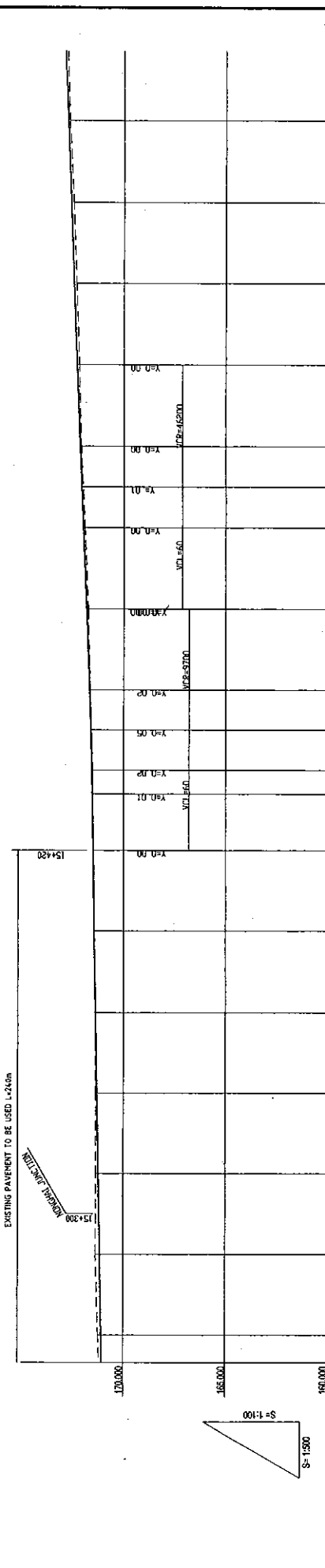
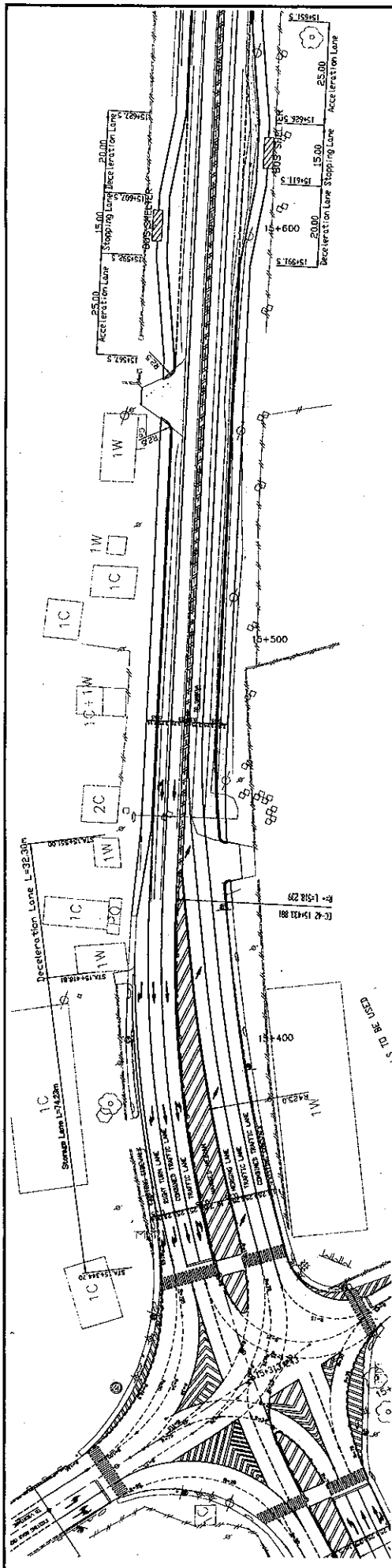
TITLE:  
 PLAN AND PROFILE  
 (STA. 14+700 - STA. 15+000)

SCALE:  
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 V=1:100

DRAWING NO:  
 PL-50

RD  
 Rv





VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
171.22	171.22	171.22	171.22			
171.28	171.28	171.28	171.28			
171.34	171.34	171.34	171.34			
171.39	171.39	171.39	171.39			
171.42	171.42	171.42	171.42			
171.49	171.49	171.49	171.49			
171.50	171.50	171.50	171.50			
171.51	171.51	171.51	171.51			
171.57	171.57	171.57	171.57			
171.63	171.63	171.63	171.63			
171.69	171.69	171.69	171.69			
171.73	171.73	171.73	171.73			
171.79	171.79	171.79	171.79			
171.80	171.80	171.80	171.80			
171.90	171.90	171.90	171.90			
171.99	171.99	171.99	171.99			
172.09	172.09	172.09	172.09			
172.19	172.19	172.19	172.19			
172.28	172.28	172.28	172.28			
172.35	172.35	172.35	172.35			
172.46	172.46	172.46	172.46			
172.58	172.58	172.58	172.58			
172.69	172.69	172.69	172.69			
172.73	172.73	172.73	172.73			

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

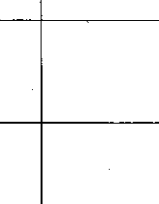
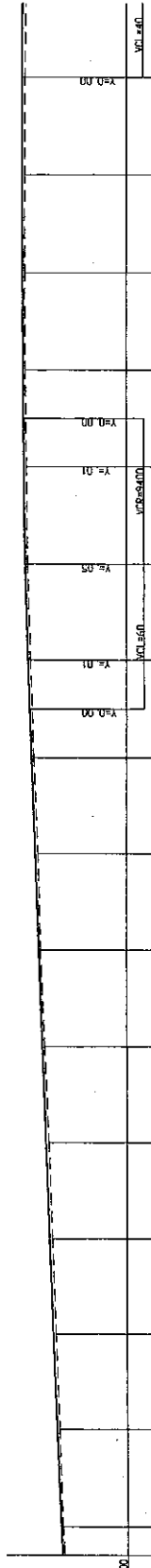
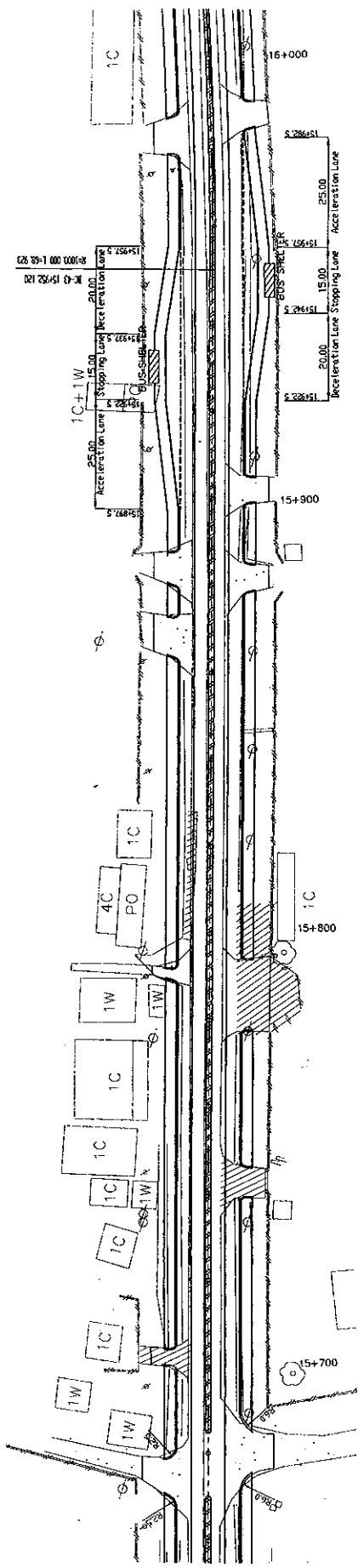
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE: PLAN AND PROFILE  
(STA. 15+300 - STA. 15+600)

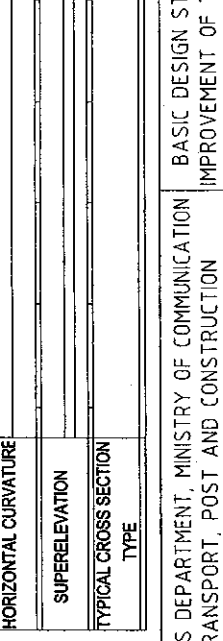
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V=1:100

DRAWING No: PL-52

RV



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000	174.00	174.00	174.00			
175.000	174.00	174.00	174.00			
180.000	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			
	174.00	174.00	174.00			



ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
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 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

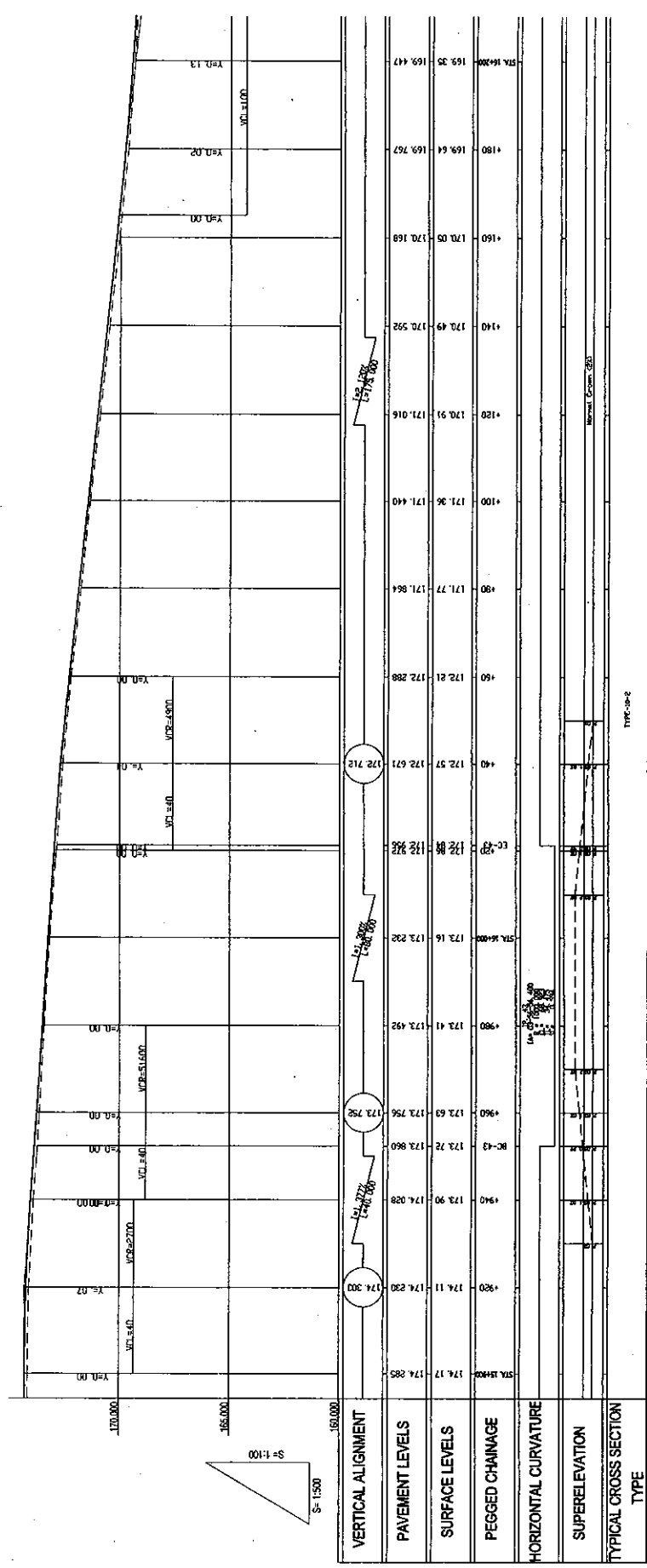
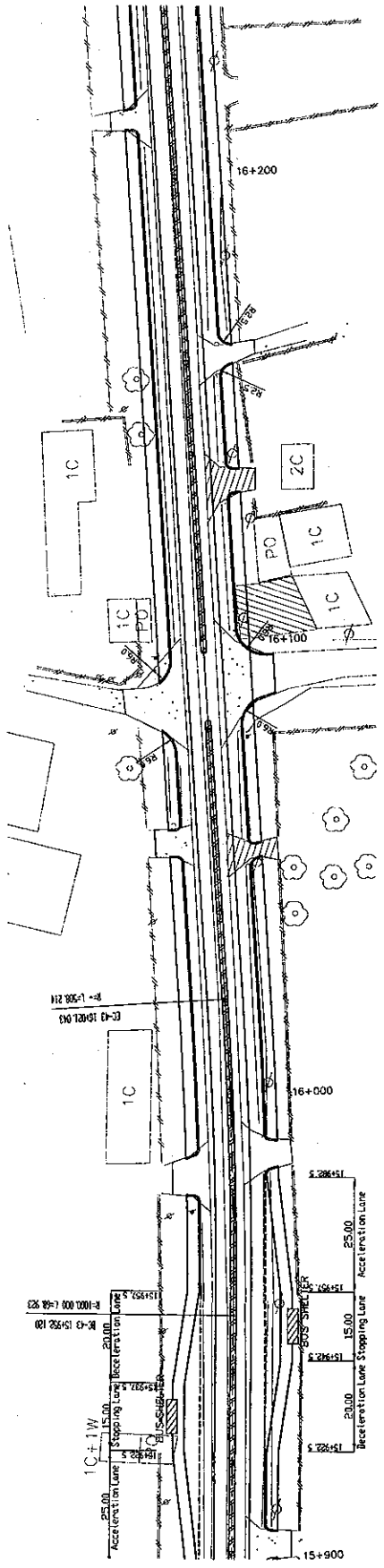
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CITI ENGINEERING INTERNATIONAL CO. LTD

PLAN AND PROFILE  
 (STA. 15+600 - STA. 15+900)

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

DRAWING NO:  
**PL-53**

REV.



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
170.000	174.17	174.285	15+900			
170.000	174.11	174.230	1+920			
170.000	173.90	174.029	1+940			
170.000	173.72	173.960	1+960			
170.000	173.63	173.756	1+980			
170.000	173.41	173.492	1+900			
170.000	173.16	173.232	1+820			
170.000	172.97	172.671	1+740			
170.000	172.81	172.288	1+660			
170.000	171.77	171.964	1+580			
170.000	171.36	171.440	1+500			
170.000	170.91	171.016	1+420			
170.000	170.49	170.592	1+340			
170.000	170.08	170.168	1+260			
170.000	169.64	169.767	1+180			
170.000	169.35	169.447	1+100			
170.000	169.13	169.100	1+020			

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

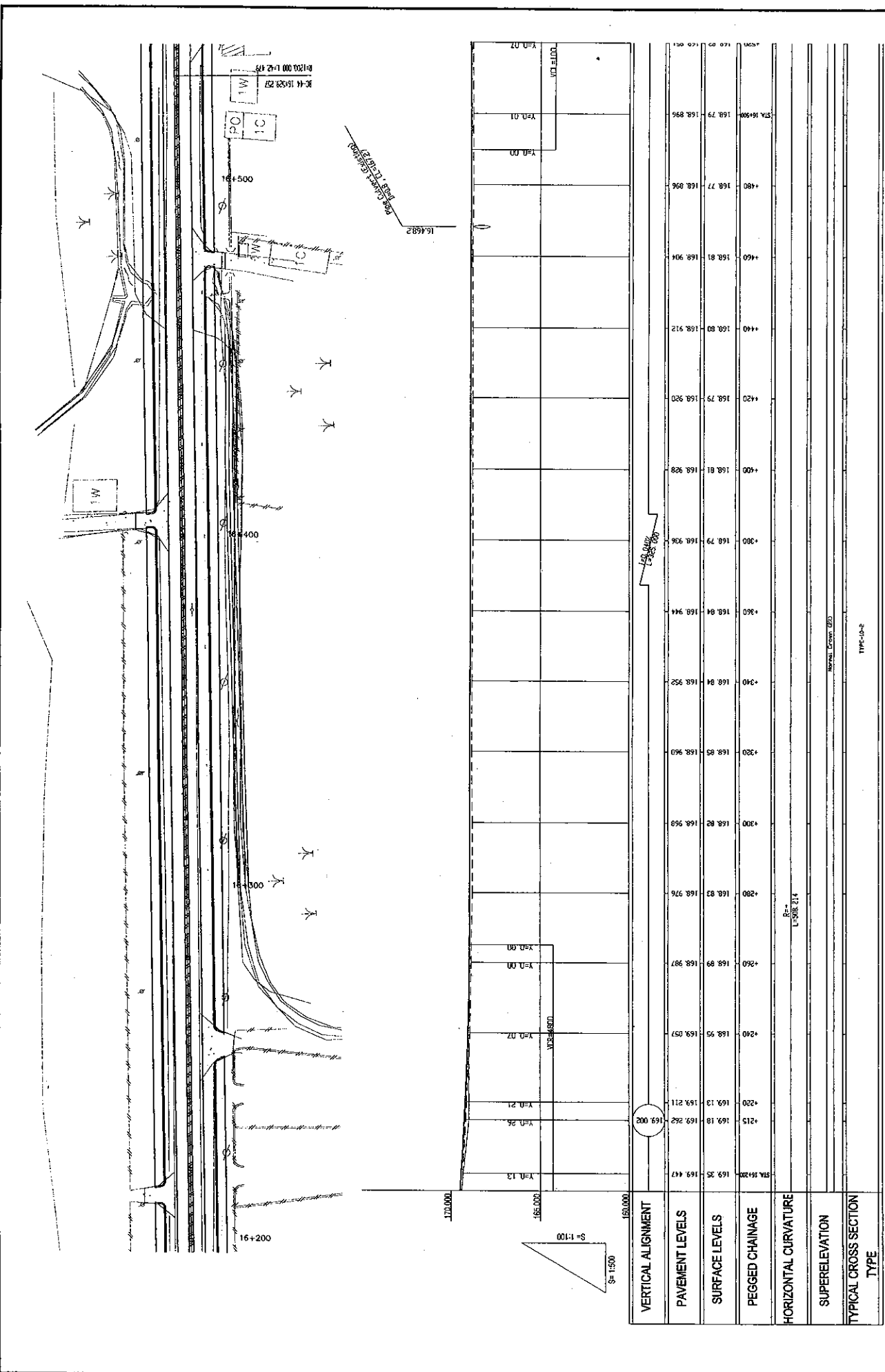
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE: PLAN AND PROFILE  
(STA. 15+900 - STA. 16+200)

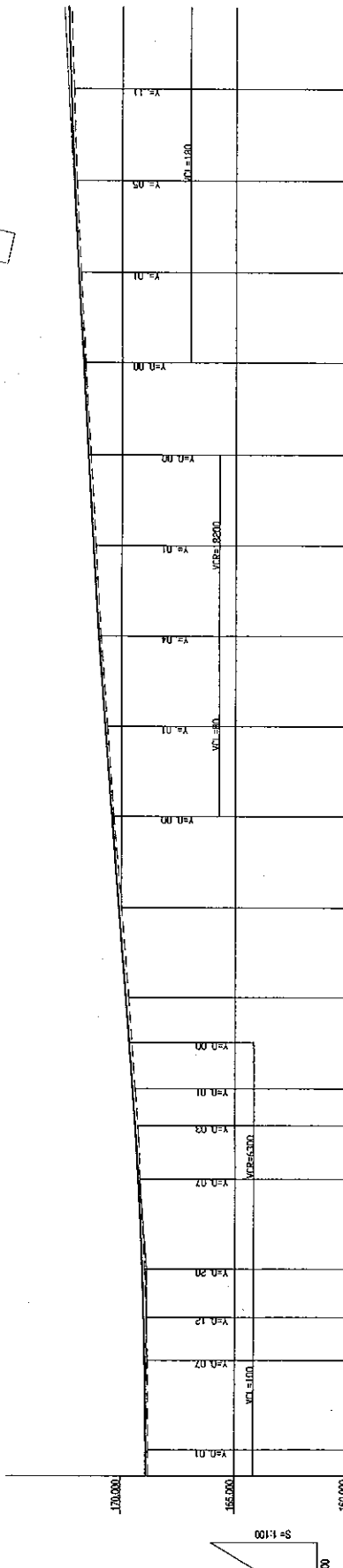
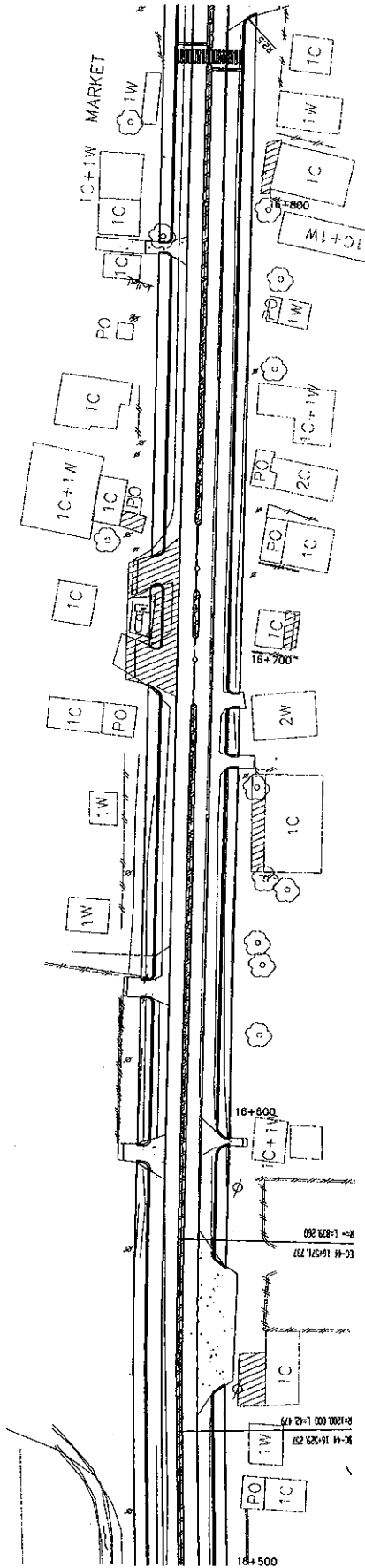
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DRAWING No: PL-54

Rv



DRAWING NO:		PL-55
SCALE:		H=1:500 V=1:100
TITLE:		PLAN AND PROFILE (STA. 16+200 - STA. 16+500)
ROADS DEPARTMENT, MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION LAO PEOPLE'S DEMOCRATIC REPUBLIC		JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CIT 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		STA. 16+200 159.35 159.47
PAVEMENT LEVELS		+215 159.18 159.262
SURFACE LEVELS		+220 159.13 159.211
PEGGED CHAINAGE		+215 159.18 159.262
HORIZONTAL CURVATURE		+215 159.18 159.262
SUPERELEVATION		+215 159.18 159.262
TYPICAL CROSS SECTION		
TYPE		



VERTICAL ALIGNMENT	STATION	ELEVATION (M)
PAVEMENT LEVELS	172.12	172.238
	171.98	172.079
SURFACE LEVELS	171.79	171.996
	171.61	171.688
PEGGED CHAINAGE	171.36	171.468
	171.13	171.237
HORIZONTAL CURVATURE	170.99	170.984
	170.61	170.709
SUPERELEVATION	170.33	170.412
	169.98	170.104
TYPICAL CROSS SECTION TYPE	169.66	169.796
	169.38	169.496
TYPICAL CROSS SECTION TYPE	169.26	169.389
	169.16	169.251
TYPICAL CROSS SECTION TYPE	168.95	169.069
	168.88	168.999
TYPICAL CROSS SECTION TYPE	168.82	168.951
	168.79	168.896

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

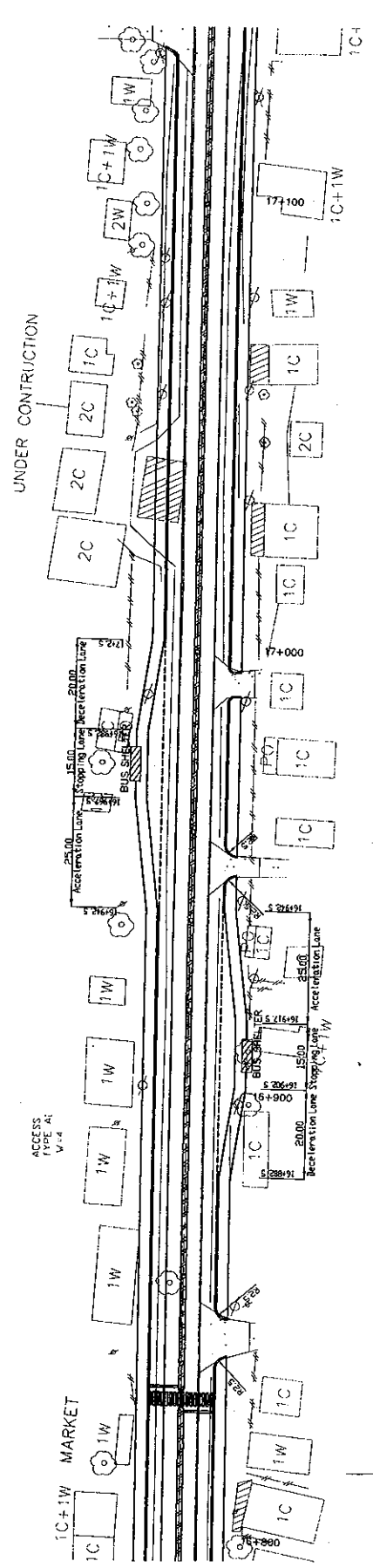
TITLE: PLAN AND PROFILE  
(STA. 16+500 - STA. 16+800)

SCALE: H=1:500  
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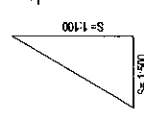
DRAWING NO: PL-56

REV.





VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPERELEVATION	TYPICAL CROSS SECTION TYPE
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						
-5.000						
-10.000						
-15.000						
-20.000						
-25.000						
-30.000						
-35.000						
-40.000						
-45.000						
-50.000						
-55.000						
-60.000						
-65.000						
-70.000						
-75.000						
-80.000						
-85.000						
-90.000						
-95.000						
-100.000						



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

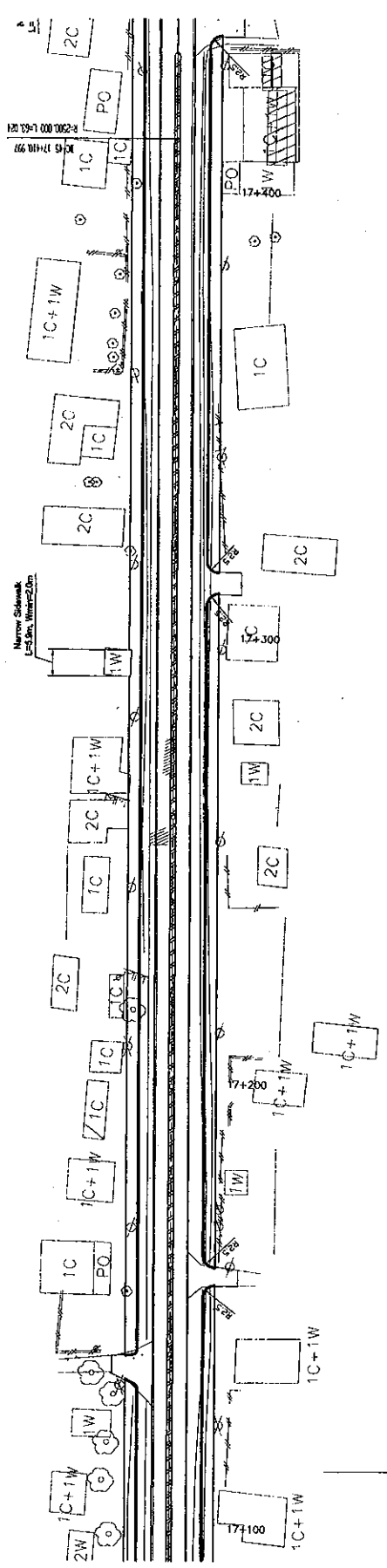
PLAN AND PROFILE  
(STA. 16+000 - STA. 17+000)

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

DRAWING NO:  
PL-57

Rev: \_\_\_\_\_

TYPE: 8-2



TYPE	TYPE	TYPE	TYPE
VERTICAL ALIGNMENT	172.018	171.998	171.912
PAVEMENT LEVELS	171.904	171.990	171.910
SURFACE LEVELS	171.804	171.976	171.909
PEGGED CHAINAGE	171.722	171.926	171.904
HORIZONTAL CURVATURE	171.604	170.948	170.918
SUPERELEVATION	170.734	170.734	170.734
TYPICAL CROSS SECTION	170.250	170.320	170.306
TYPE	170.092	170.092	170.092
	169.878	169.878	169.878
	169.755	169.755	169.755
	169.664	169.664	169.664
	169.450	169.450	169.450
	169.241	169.241	169.241
	169.105	169.105	169.105
	168.963	168.963	168.963
	168.939	168.939	168.939
	168.833	168.833	168.833
	168.826	168.826	168.826

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

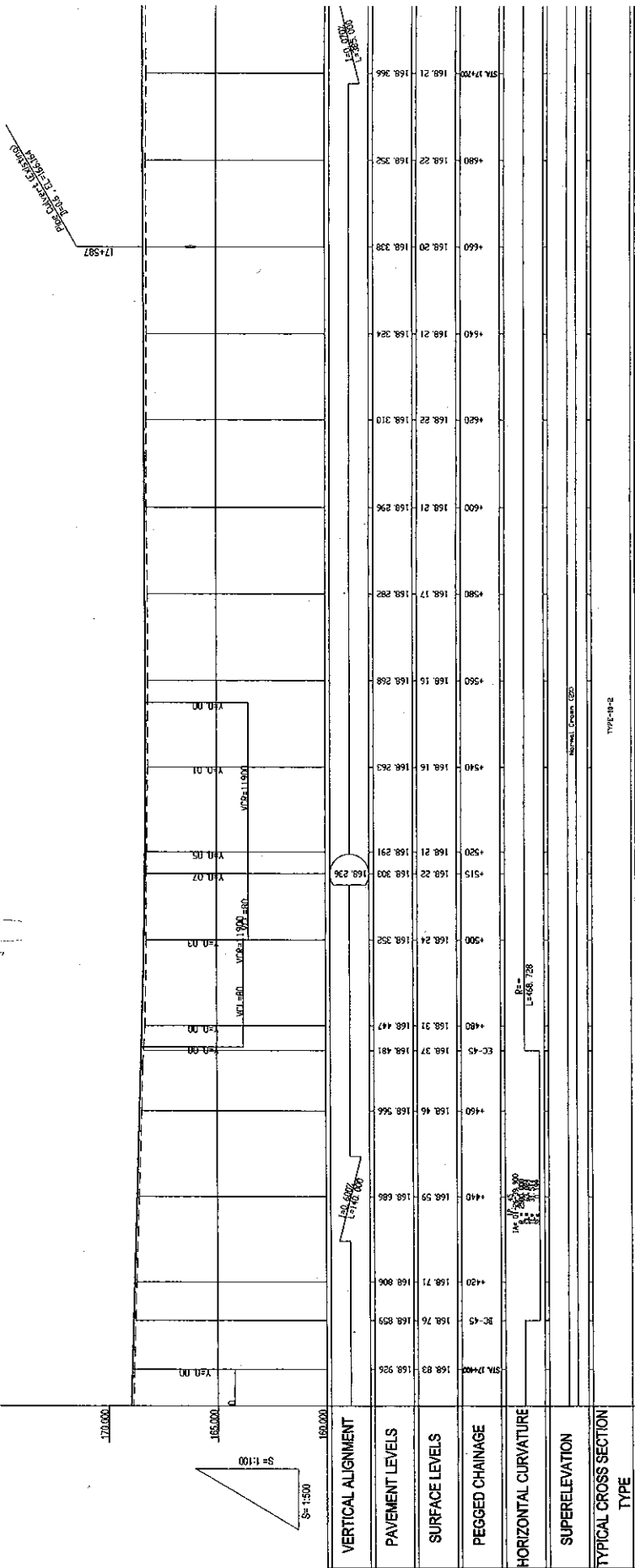
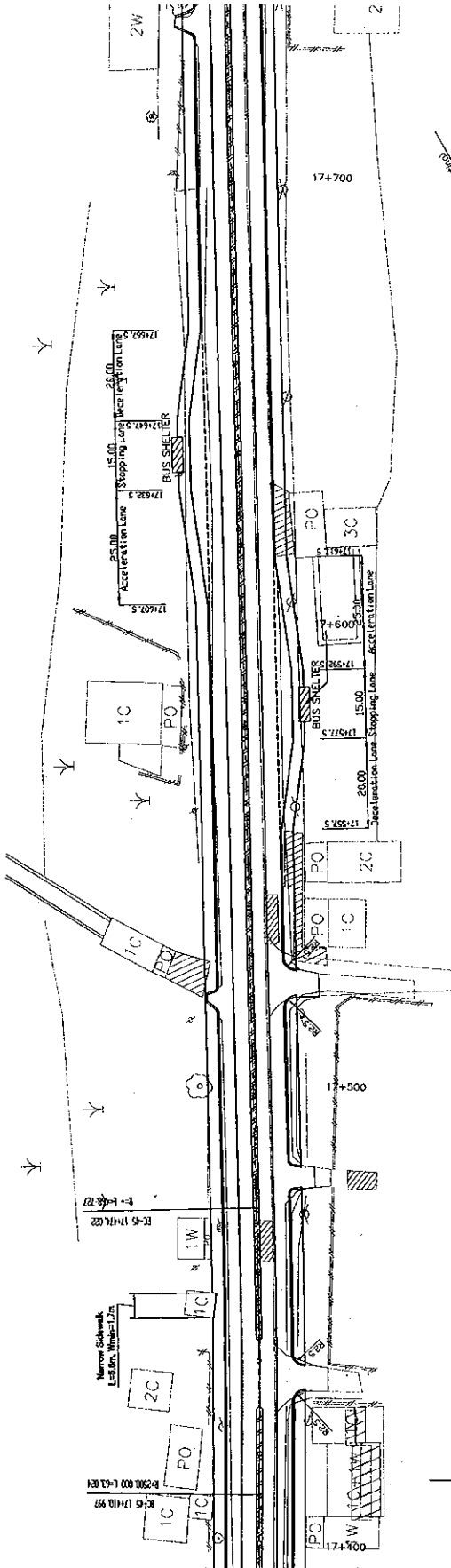
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE:  
PLAN AND PROFILE  
(STA. 171+00 - STA. 174+00)

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

DRAWING No:  
PL-58

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

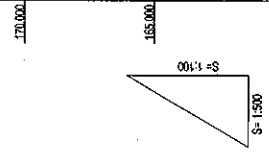
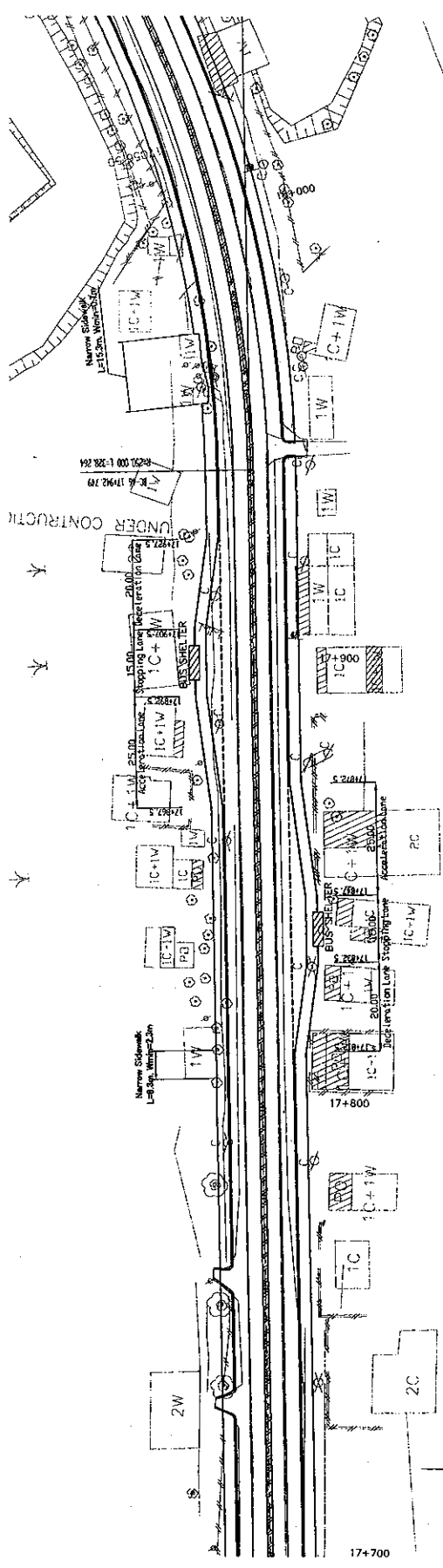
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 CTI ENGINEERING INTERNATIONAL CO, LTD

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

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

DRAWING NO:  
**PL-59**

REV:



VERTICAL ALIGNMENT	17+700		17+750		17+800		17+850		17+900		17+950		18+000	
PAVEMENT LEVELS	168.366	168.394	168.300	168.408	168.272	168.436	168.300	168.450	168.300	168.409	168.272	168.452	168.300	168.451
SURFACE LEVELS	168.24	168.380	168.24	168.408	168.27	168.436	168.30	168.450	168.30	168.409	168.27	168.452	168.33	168.484
PEGGED CHAINAGE	168.21	168.356	168.24	168.380	168.27	168.422	168.30	168.436	168.33	168.484	168.36	168.493	168.39	168.482
HORIZONTAL CURVATURE														
SUPERELEVATION														
TYPICAL CROSS SECTION TYPE														

ROADS DEPARTMENT, MINISTRY OF COMMUNICATION  
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JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
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TITLE:

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

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

DRAWING NO:  
PL-60

REV: