

CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-6	15+401	NC	15+400	9.89	-10.746	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+420	9.85	-10.744	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+440	9.85	-10.744	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+460	9.79	-10.743	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+480	9.78	-10.743	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+500	9.82	-10.742	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+520	9.86	-10.741	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+540	9.93	-10.740	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+560	10.01	-10.739	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+580	10.06	-10.738	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+600	10.08	-10.737	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+620	10.01	-10.736	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+640	9.94	-10.735	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+660	9.85	-10.734	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+680	9.82	-10.734	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+700	9.86	-10.733	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+720	9.96	-10.732	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+740	10.04	-10.731	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+760	9.98	-10.730	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+780	9.94	-10.729	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+800	9.90	-10.728	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+820	9.85	-10.727	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+840	9.84	-10.726	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+860	9.89	-10.726	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+880	9.89	-10.725	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+900	9.84	-10.724	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+920	9.82	-10.723	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+940	9.80	-10.722	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+960	9.73	-10.721	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	15+980	9.66	-10.720	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	16+000	9.63	-10.719	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	16+020	9.62	-10.718	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	16+040	9.52	-10.717	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	16+060	9.42	-10.717	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	16+080	9.45	-10.716	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		
TYPE-6	15+401	NC	16+100	9.55	-10.715	$\frac{1}{L} = \frac{0.044}{780.00}$
	15+401		9.88	-10.745		

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

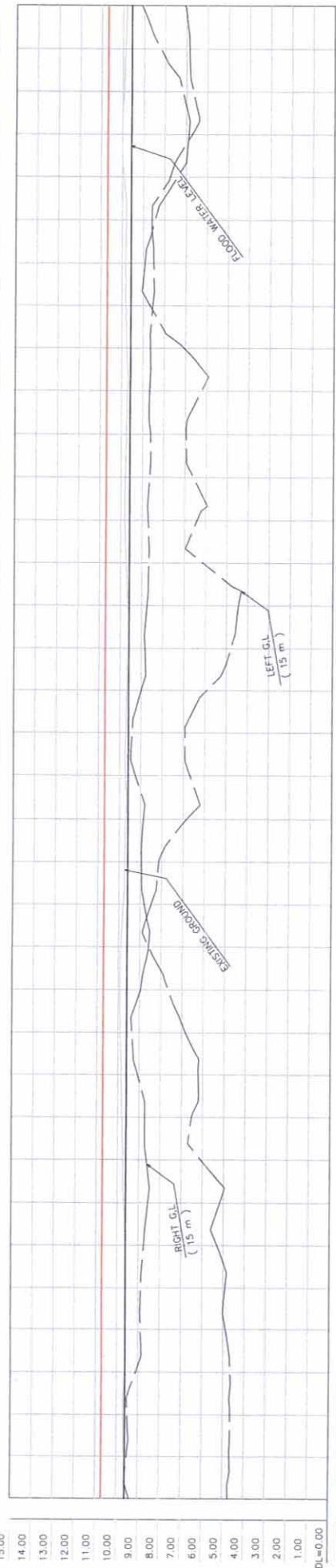
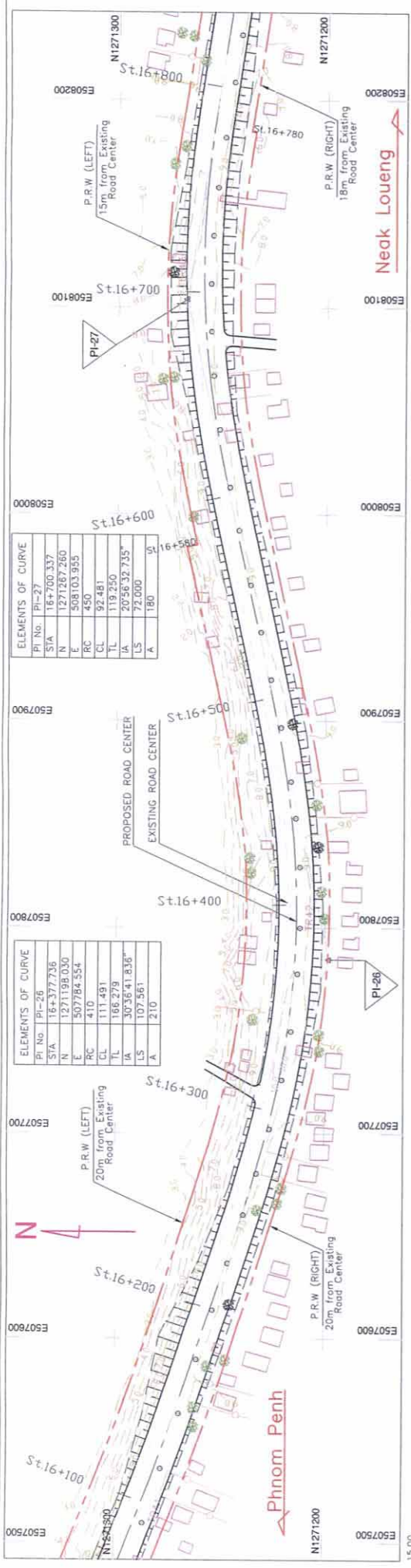
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA. 15+400 - STA. 16+100)

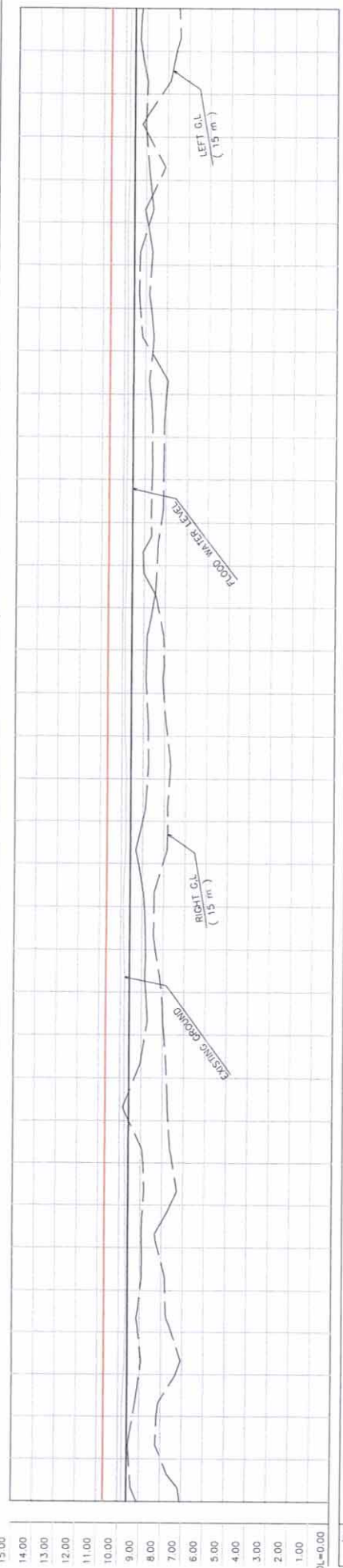
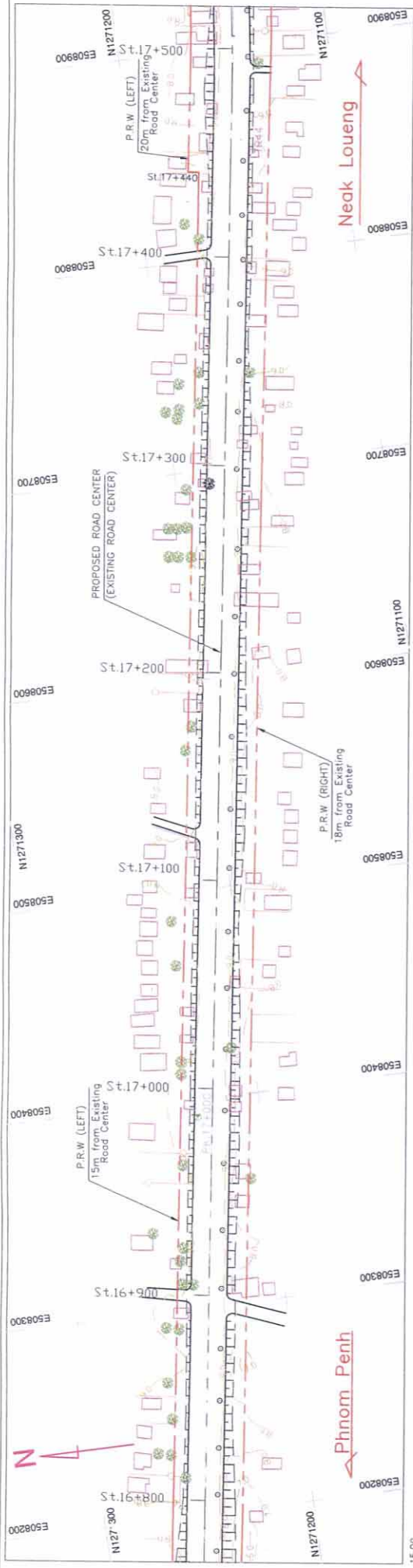
SCALE
H=1/2000
V=1/200

Drawing No
Sheet No
PL-23

TYPE-6



CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-B	RE	Rc=1600 Lc=640.422	16+100	9.55	10.715	10.715
	EC	Rc=∞ L=41.721	16+200	9.59	10.710	10.710
TYPE-B	TS	A=210 Ls=107.561	16+260	9.74	10.708	10.708
	SC	Rc=410 Lc=111.491	16+320	9.90	10.705	10.705
TYPE-B	TS	A=210 Ls=107.561	16+380	9.79	10.702	10.702
	SC	Rc=∞	16+440	9.72	10.699	10.699
TYPE-B	TS	A=180 Ls=72.00	16+500	9.63	10.697	10.697
	SC	Rc=450 Lc=92.481	16+560	9.80	10.694	10.694
TYPE-B	TS	A=180 Ls=72.00	16+620	9.71	10.691	10.691
	SC	Rc=∞	16+680	9.83	10.689	10.689
TYPE-B	TS	A=180 Ls=72.00	16+740	9.99	10.686	10.686
	SC	Rc=∞	16+800	9.81	10.683	10.683
TYPE-4	TS	A=180 Ls=72.00	16+801	3.00	16+801	16+801
	SC	Rc=∞	16+801	3.00	16+801	16+801



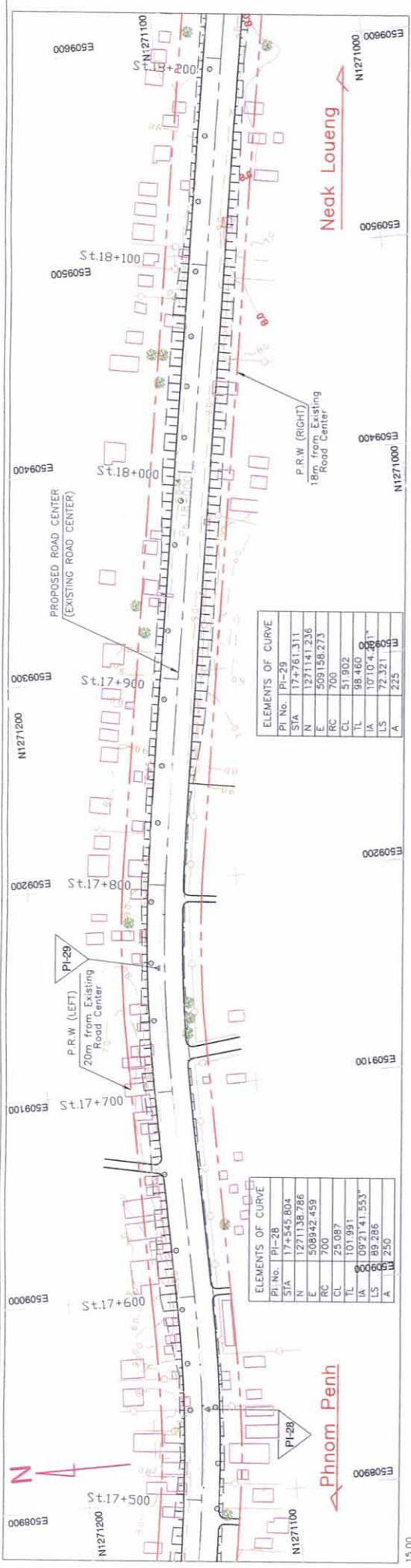
CROSS SECTION TYPE	SURF. ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-4	16+801	HC	ST	9.81	10.683	$\frac{A}{Ls} = \frac{0.0444}{89.286}$ $K = 7800.00$
	3.00		-3.00			
TYPE-4	17+442	HC	TS	3.00	-3.00	$\frac{A}{Ls} = \frac{0.0444}{89.286}$ $K = 7800.00$
	17+492		3.00			

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

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

TITLE : PLAN AND PROFILE (STA. 16+800 - STA. 17+500)

SCALE Drawing No. H=1/2000 V=1/200 Sheet No. PL-25

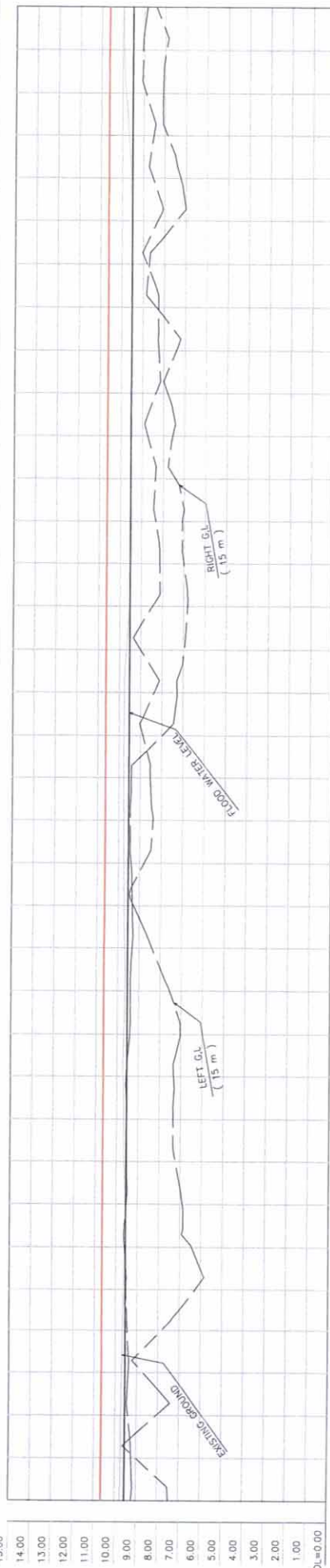


ELEMENTS OF CURVE

PI No.	PI-29
STA	17+761.311
N	1271141.236
E	509196.273
RC	700
CL	51.902
TL	98.460
LA	10710.4261°
LS	72.321
A	225

ELEMENTS OF CURVE

PI No.	PI-28
STA	17+545.804
N	1271138.786
E	508942.459
RC	700
CL	25.087
TL	101.991
LA	09271.41353°
LS	89.286
A	250



CROSS SECTION TYPE	TYPE-4	TYPE-4	
GROUND ELEVATION	17+500 9.74 17+520 9.73 17+540 9.71 17+560 9.70 17+580 9.66 17+600 9.63 17+620 9.59 17+640 9.59 17+660 9.64 17+680 9.66 17+700 9.70 17+720 9.68 17+740 9.65 17+760 9.67 17+780 9.71 17+800 9.74 17+820 9.76 17+840 9.77 17+860 9.76 17+880 9.76 17+900 9.67 17+920 9.57 17+940 9.47 17+960 9.45 17+980 9.48 18+000 9.50 18+020 9.48 18+040 9.46 18+060 9.49 18+080 9.52 18+100 9.55 18+120 9.58 18+140 9.68 18+160 9.83 18+180 9.94 18+200 9.94	17+500 3.00 17+520 3.00 17+540 3.00 17+560 3.00 17+580 3.00 17+600 3.00 17+620 3.00 17+640 3.00 17+660 3.00 17+680 3.00 17+700 3.00 17+720 3.00 17+740 3.00 17+760 3.00 17+780 3.00 17+800 3.00 17+820 3.00 17+840 3.00 17+860 3.00 17+880 3.00 17+900 3.00 17+920 3.00 17+940 3.00 17+960 3.00 17+980 3.00 18+000 3.00 18+020 3.00 18+040 3.00 18+060 3.00 18+080 3.00 18+100 3.00 18+120 3.00 18+140 3.00 18+160 3.00 18+180 3.00 18+200 3.00	17+500 3.00 17+520 3.00 17+540 3.00 17+560 3.00 17+580 3.00 17+600 3.00 17+620 3.00 17+640 3.00 17+660 3.00 17+680 3.00 17+700 3.00 17+720 3.00 17+740 3.00 17+760 3.00 17+780 3.00 17+800 3.00 17+820 3.00 17+840 3.00 17+860 3.00 17+880 3.00 17+900 3.00 17+920 3.00 17+940 3.00 17+960 3.00 17+980 3.00 18+000 3.00 18+020 3.00 18+040 3.00 18+060 3.00 18+080 3.00 18+100 3.00 18+120 3.00 18+140 3.00 18+160 3.00 18+180 3.00 18+200 3.00
HORIZONTAL CURVATURE	A=250 Ls=89.286 Rc=700 Lc=25.087	A=250 Ls=89.286 Rc=700 Lc=34.938	A=250 Ls=89.286 Rc=700 Lc=89.286
SUPER-ELEVATION	e=3%	e=3%	NG

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

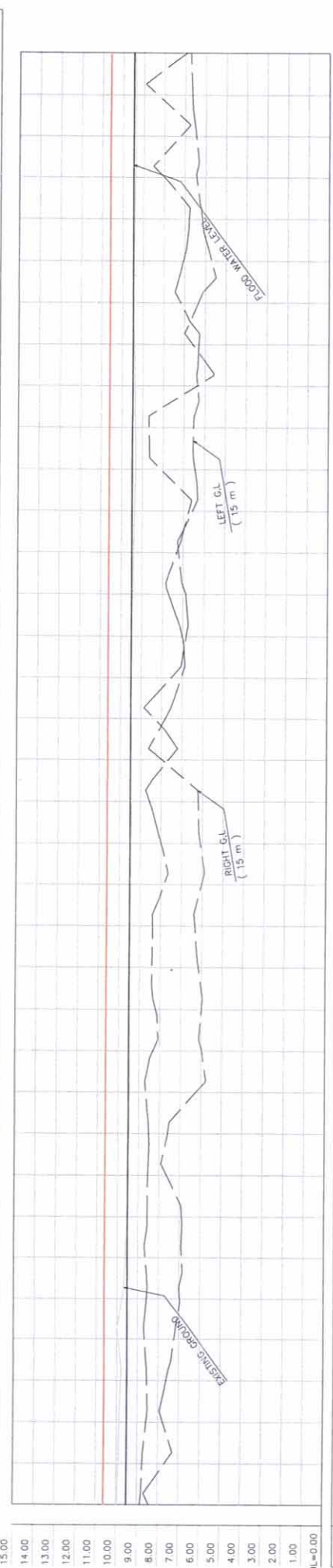
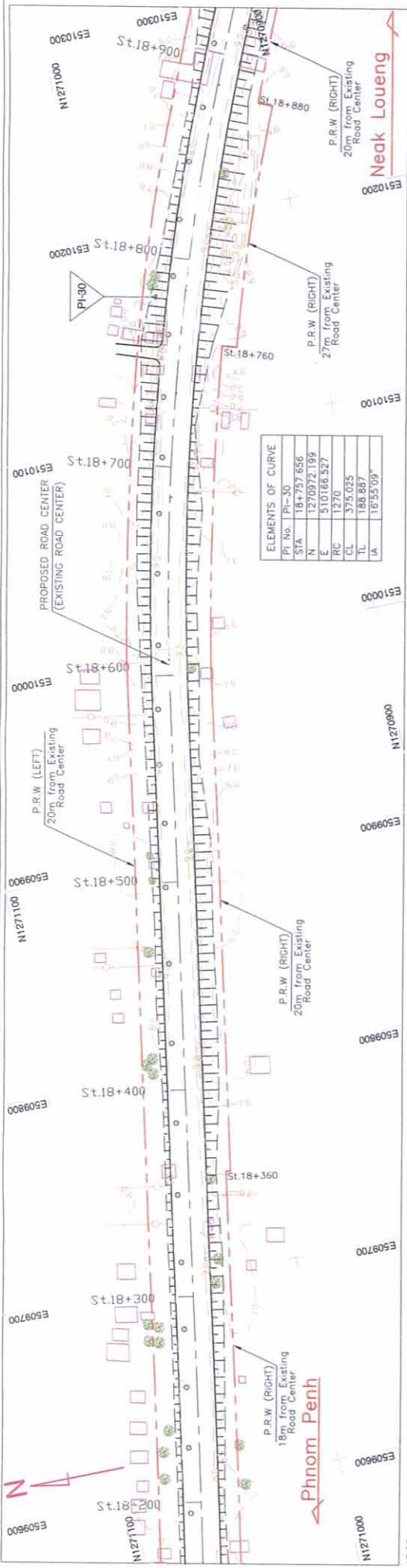
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.17+500 - STA.18+200)

SCALE H=1/2000 V=1/200

Drawing No. PL-26

Sheet No. PL-26



CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PROPOSED HEIGHT	VERTICAL CURVATURE
TYPE-4	NC	Rc=∞ L=726.485	18+200	9.94	-10.621	m=0.0045 L=1800.00
			18+220	9.90	-10.620	
TYPE-4	NC	Rc=∞ L=726.485	18+240	9.87	-10.619	m=0.0045 L=1800.00
			18+260	9.80	-10.618	
TYPE-4	NC	Rc=∞ L=726.485	18+280	9.92	-10.617	m=0.0045 L=1800.00
			18+300	9.75	-10.616	
TYPE-4	NC	Rc=∞ L=726.485	18+320	9.61	-10.615	m=0.0045 L=1800.00
			18+340	9.52	-10.614	
TYPE-4	NC	Rc=∞ L=726.485	18+360	9.50	-10.613	m=0.0045 L=1800.00
			18+380	9.51	-10.612	
TYPE-4	NC	Rc=∞ L=726.485	18+400	9.47	-10.612	m=0.0045 L=1800.00
			18+420	9.49	-10.611	
TYPE-4	NC	Rc=∞ L=726.485	18+440	9.50	-10.610	m=0.0045 L=1800.00
			18+460	9.45	-10.609	
TYPE-4	NC	Rc=∞ L=726.485	18+480	9.48	-10.608	m=0.0045 L=1800.00
			18+500	9.50	-10.607	
TYPE-4	NC	Rc=∞ L=726.485	18+520	9.44	-10.606	m=0.0045 L=1800.00
			18+540	9.43	-10.605	
TYPE-4	NC	Rc=∞ L=726.485	18+560	9.44	-10.604	m=0.0045 L=1800.00
			18+580	9.47	-10.603	
TYPE-4	NC	Rc=∞ L=726.485	18+600	9.51	-10.603	m=0.0045 L=1800.00
			18+620	9.48	-10.602	
TYPE-4	NC	Rc=∞ L=726.485	18+640	9.42	-10.601	m=0.0045 L=1800.00
			18+660	9.39	-10.600	
TYPE-4	NC	Rc=∞ L=726.485	18+680	9.35	-10.599	m=0.0045 L=1800.00
			18+700	9.32	-10.598	
TYPE-4	NC	Rc=∞ L=726.485	18+720	9.34	-10.597	m=0.0045 L=1800.00
			18+740	9.37	-10.596	
TYPE-4	NC	Rc=∞ L=726.485	18+760	9.41	-10.595	m=0.0045 L=1800.00
			18+780	9.45	-10.594	
TYPE-4	NC	Rc=∞ L=726.485	18+800	9.43	-10.594	m=0.0045 L=1800.00
			18+820	9.40	-10.593	
TYPE-4	NC	Rc=∞ L=726.485	18+840	9.38	-10.592	m=0.0045 L=1800.00
			18+860	9.37	-10.591	
TYPE-4	NC	Rc=∞ L=726.485	18+880	9.37	-10.590	m=0.0045 L=1800.00
			18+900	9.39	-10.589	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

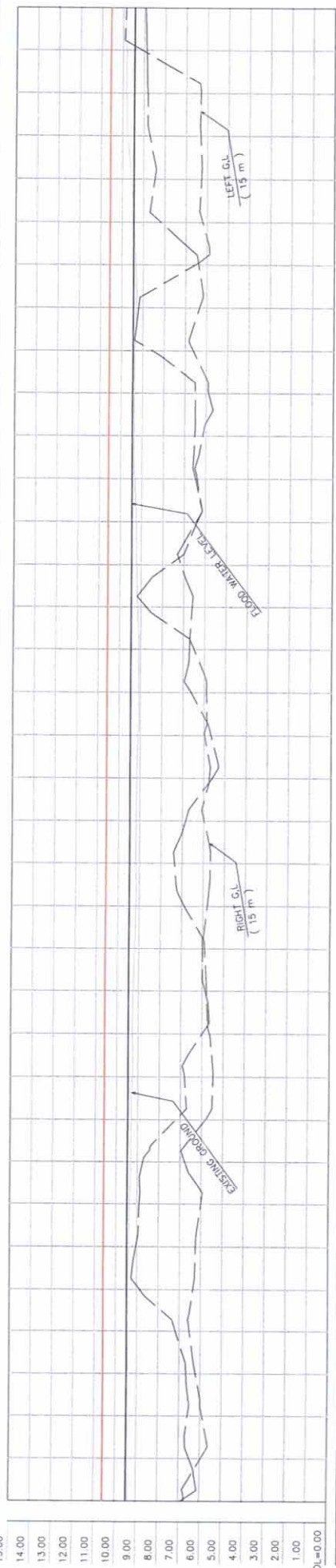
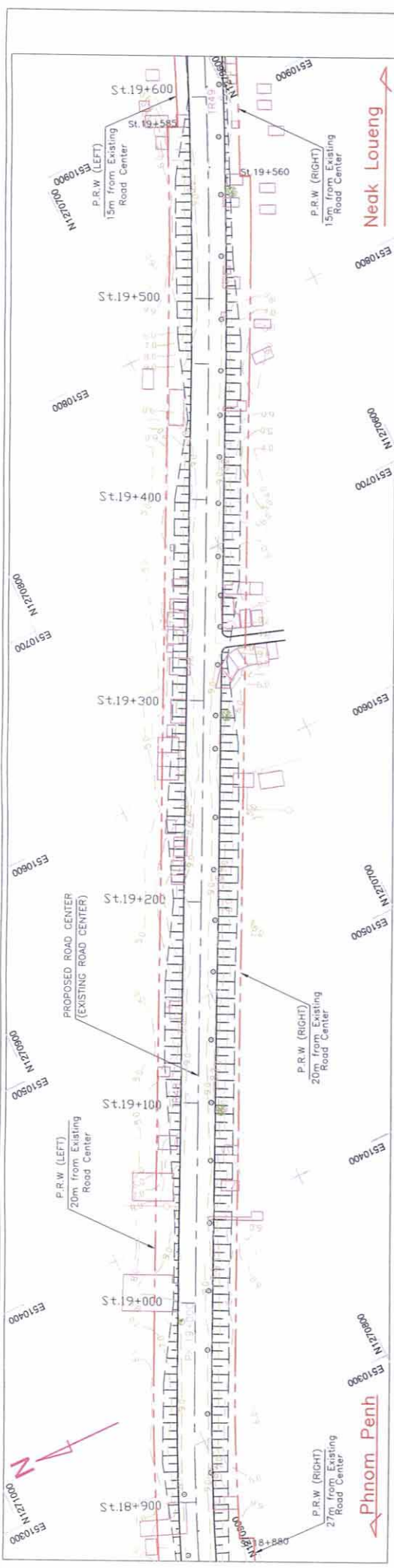
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

TITLE: PLAN AND PROFILE (STA.18+200 - STA.18+900)

SCALE: H=1/2000 V=1/200

Drawing No. PL-27



CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PROPOSED HEIGHT	VERTICAL ALIGNMENT
TYPE-4	$e=3\%$ 3.00 18+94.3 3.00 18+99.3 3.00	$Rc=1270$ $Lc=375.025$	18+900	9.39	10.589	$L=780.0$ $R=1270$
			18+920	9.41	10.588	
EC	$Rc=1270$ $Lc=375.025$	$Rc=1270$ $Lc=375.025$	18+940	9.42	10.587	$L=780.0$ $R=1270$
			18+960	9.42	10.586	
BC	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	18+980	9.42	10.586	$L=780.0$ $R=1270$
			18+980	9.42	10.586	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+000	9.41	10.585	$L=780.0$ $R=1270$
			19+020	9.39	10.584	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+040	9.35	10.583	$L=780.0$ $R=1270$
			19+060	9.32	10.582	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+080	9.32	10.581	$L=780.0$ $R=1270$
			19+100	9.27	10.580	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+120	9.27	10.579	$L=780.0$ $R=1270$
			19+140	9.24	10.578	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+160	9.19	10.577	$L=780.0$ $R=1270$
			19+180	9.15	10.577	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+200	9.17	10.576	$L=780.0$ $R=1270$
			19+220	9.17	10.575	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+240	9.15	10.574	$L=780.0$ $R=1270$
			19+260	9.09	10.573	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+280	9.08	10.572	$L=780.0$ $R=1270$
			19+300	9.09	10.571	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+320	9.16	10.570	$L=780.0$ $R=1270$
			19+340	9.21	10.569	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+360	9.25	10.568	$L=780.0$ $R=1270$
			19+380	9.33	10.568	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+400	9.35	10.567	$L=780.0$ $R=1270$
			19+420	9.36	10.566	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+440	9.36	10.565	$L=780.0$ $R=1270$
			19+460	9.31	10.564	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+480	9.33	10.563	$L=780.0$ $R=1270$
			19+500	9.46	10.562	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+520	9.57	10.561	$L=780.0$ $R=1270$
			19+540	9.74	10.560	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+560	9.81	10.559	$L=780.0$ $R=1270$
			19+580	9.82	10.559	
NG	$Rc=2820$ $Lc=349.733$	$Rc=2820$ $Lc=349.733$	19+600	9.88	10.558	$L=780.0$ $R=1270$

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

THE PROJECT FOR THE
 IMPROVEMENT OF NATIONAL ROAD NO.1
 (PHNOM PENH-NEAK LOUENG SECTION)
 IN THE KINGDOM OF CAMBODIA

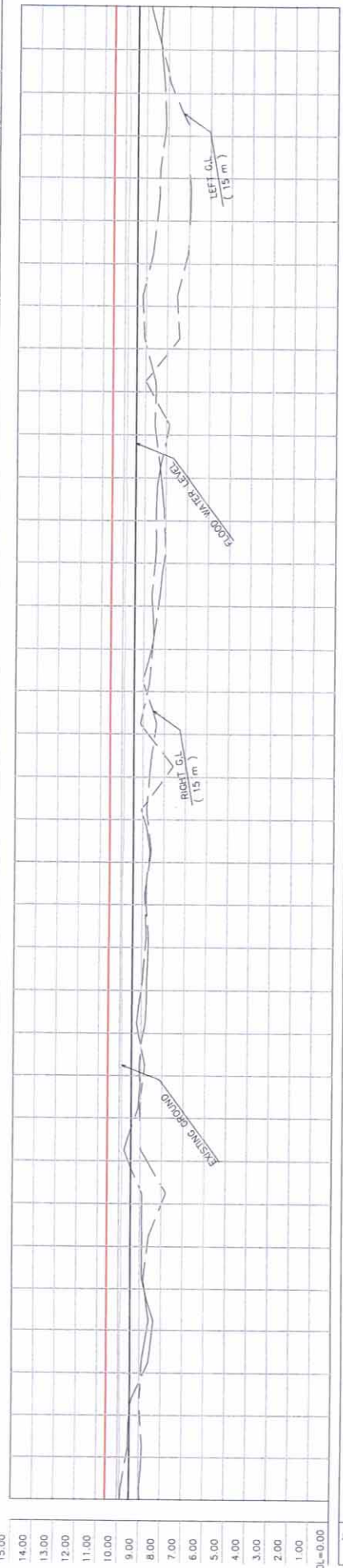
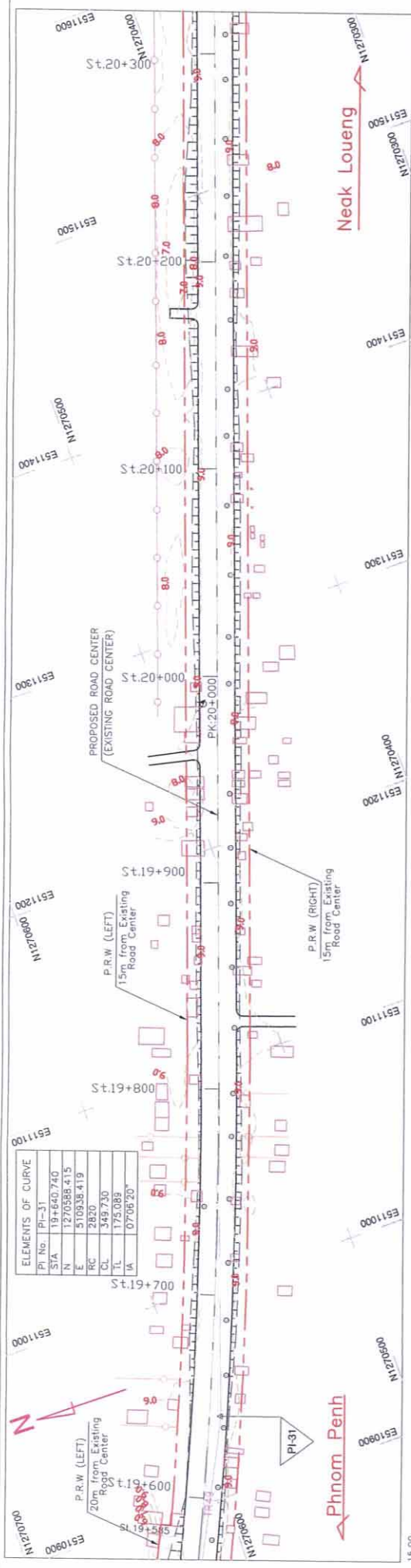
MINISTRY OF
 PUBLIC WORKS AND TRANSPORT
 (MPWT)

TITLE : PLAN AND PROFILE
 STA.18+900 - STA.19+600

SCALE
 H=1/2000
 V=1/200

Drawing No.
 Sheet No.
 PL-28

TYPE-4



CROSS SECTION	TYPE	TYPE 4	TYPE 4
GRADE	NC	NC	NC
SURFACE ELEVATION	NC	NC	NC
HORIZONTAL CURVATURE	Rc=∞ L=2066.364	Rc=∞ L=2066.364	Rc=∞ L=2066.364
STATION	19+600	19+620	19+640
GROUND HEIGHT	9.88	9.88	9.88
PAVEMENT HEIGHT	9.88	9.88	9.88
STATION	19+660	19+680	19+700
GROUND HEIGHT	9.92	9.91	9.88
PAVEMENT HEIGHT	9.92	9.91	9.88
STATION	19+740	19+760	19+780
GROUND HEIGHT	9.87	9.86	9.88
PAVEMENT HEIGHT	9.87	9.86	9.88
STATION	19+820	19+840	19+860
GROUND HEIGHT	9.90	9.91	9.92
PAVEMENT HEIGHT	9.90	9.91	9.92
STATION	19+900	19+920	19+940
GROUND HEIGHT	9.91	9.88	9.89
PAVEMENT HEIGHT	9.91	9.88	9.89
STATION	19+980	19+996	19+996
GROUND HEIGHT	9.89	9.87	9.87
PAVEMENT HEIGHT	9.89	9.87	9.87
STATION	20+000	20+020	20+040
GROUND HEIGHT	9.86	9.85	9.84
PAVEMENT HEIGHT	9.86	9.85	9.84
STATION	20+060	20+080	20+100
GROUND HEIGHT	9.81	9.85	9.84
PAVEMENT HEIGHT	9.81	9.85	9.84
STATION	20+140	20+160	20+180
GROUND HEIGHT	9.84	9.85	9.87
PAVEMENT HEIGHT	9.84	9.85	9.87
STATION	20+220	20+240	20+260
GROUND HEIGHT	9.80	9.77	9.80
PAVEMENT HEIGHT	9.80	9.77	9.80
STATION	20+300	20+280	20+260
GROUND HEIGHT	9.88	9.83	9.80
PAVEMENT HEIGHT	9.88	9.83	9.80

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

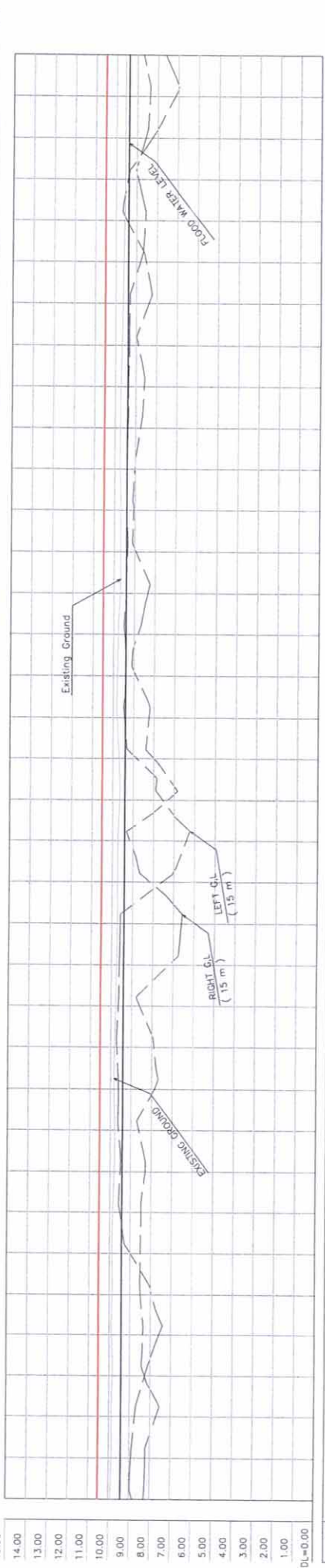
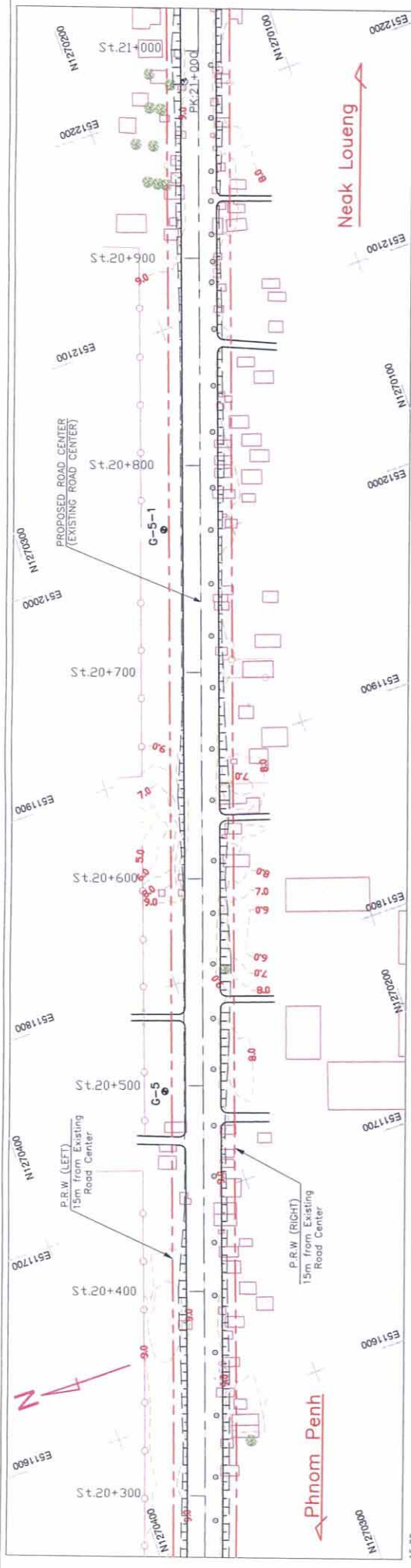
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

TITLE : PLAN AND PROFILE (STA.19+600-STA.20+300)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-29



VERTICAL ALIGNMENT	STATION	GROUND ELEVATION	PROPOSED ROAD ELEVATION
10.526	20+300	9.88	9.88
10.526	20+320	9.86	9.86
10.524	20+340	9.87	9.87
10.524	20+360	9.82	9.82
10.523	20+380	9.87	9.87
10.522	20+400	9.85	9.85
10.521	20+420	9.87	9.87
10.520	20+440	9.85	9.85
10.519	20+460	9.79	9.79
10.518	20+480	9.79	9.79
10.516	20+500	9.82	9.82
10.516	20+520	9.81	9.81
10.516	20+540	9.77	9.77
10.515	20+560	9.74	9.74
10.514	20+580	9.72	9.72
10.513	20+600	9.74	9.74
10.512	20+620	9.72	9.72
10.511	20+640	9.65	9.65
10.510	20+660	9.69	9.69
10.509	20+680	9.80	9.80
10.508	20+700	9.80	9.80
10.507	20+720	9.77	9.77
10.507	20+740	9.88	9.88
10.506	20+760	9.88	9.88
10.505	20+780	9.88	9.88
10.504	20+800	9.73	9.73
10.503	20+820	9.74	9.74
10.502	20+840	9.72	9.72
10.501	20+860	9.68	9.68
10.500	20+880	9.64	9.64
10.499	20+900	9.61	9.61
10.498	20+920	9.57	9.57
10.496	20+940	9.56	9.56
10.497	20+960	9.55	9.55
10.496	20+980	9.57	9.57
10.495	20+1000	9.57	9.57

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

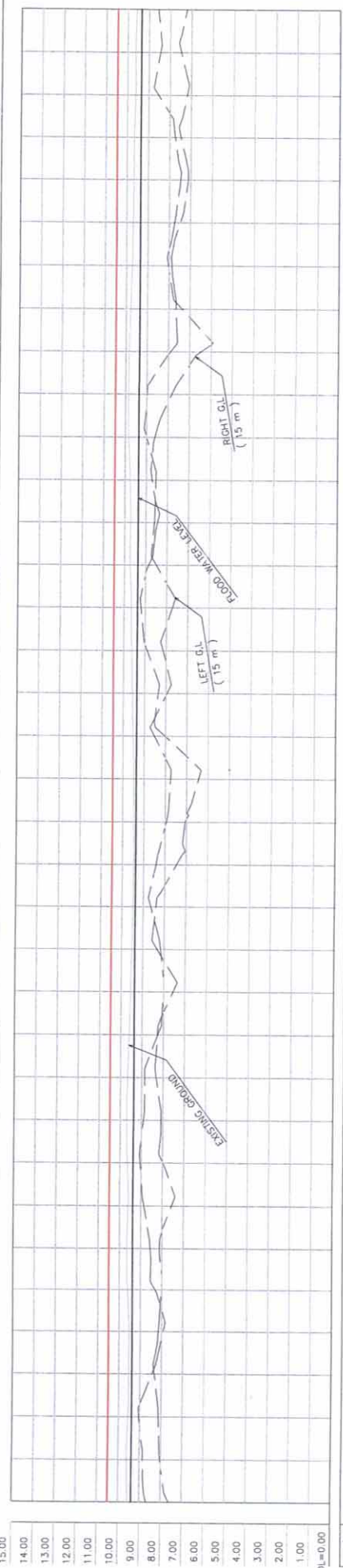
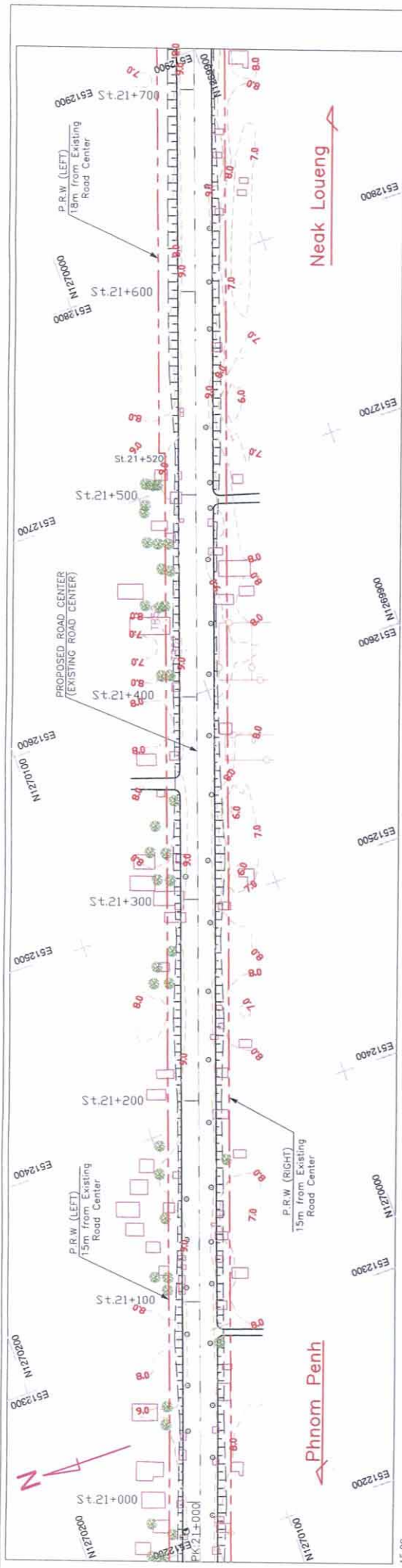
TITLE : PLAN AND PROFILE (STA.20+300—STA.21+000)

SCALE
H=1/2000
V=1/200

Drawing No. PL-30

Sheet No. PL-30

TYPE-4



TYPE	CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-4				-21+000	9.57		
				-21+020	9.60		
				-21+040	9.55		
				-21+060	9.53		
				-21+080	9.53		
				-21+100	9.60		
				-21+120	9.64		
				-21+140	9.60		
				-21+160	9.65		
				-21+180	9.69		
				-21+200	9.66		
				-21+220	9.60		
				-21+240	9.55		
				-21+260	9.51		
				-21+280	9.48		
				-21+300	9.46		
				-21+320	9.48		
				-21+340	9.49		
				-21+360	9.53		
				-21+380	9.57		
				-21+400	9.62		
				-21+420	9.65		
				-21+440	9.72		
				-21+460	9.72		
				-21+480	9.75		
				-21+500	9.84		
				-21+520	9.86		
				-21+540	9.84		
				-21+560	9.78		
				-21+580	9.73		
				-21+600	9.70		
				-21+620	9.67		
				-21+640	9.65		
				-21+660	9.61		
				-21+680	9.62		
				-21+700	9.57		

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

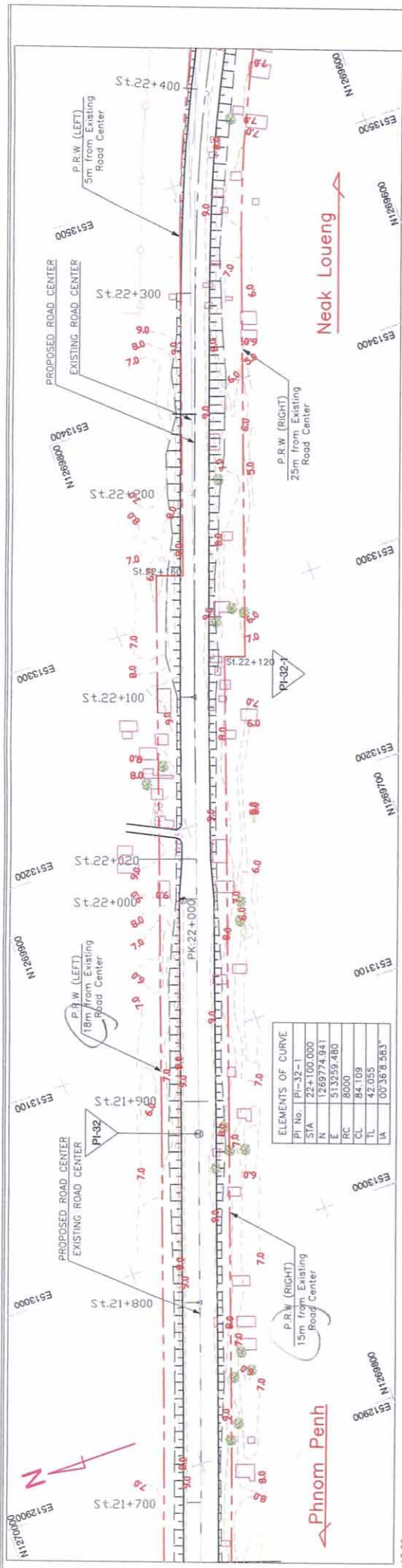
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.21+000 - STA.21+700)

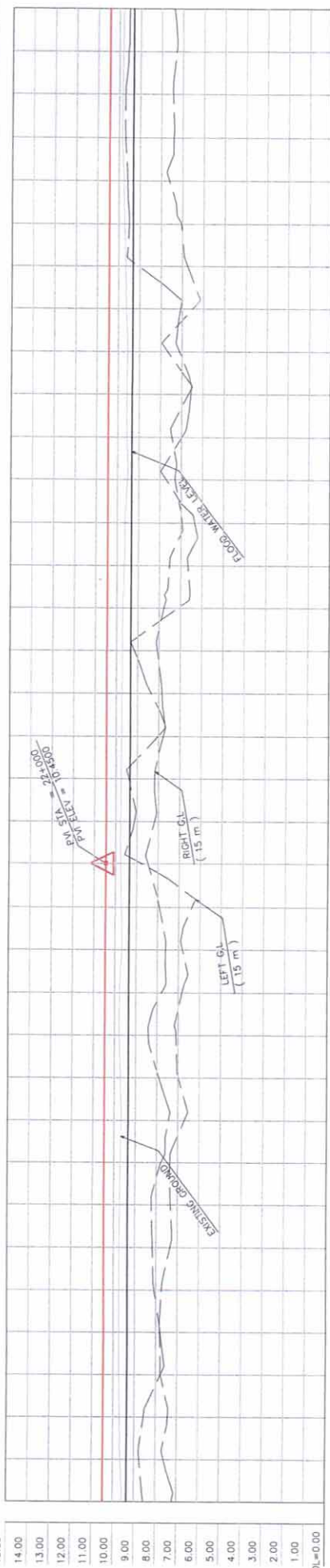
SCALE
H=1/2000
V=1/200

Drawing No.
Sheet No
PL-31

TYPE-4



ELEMENTS OF CURVE	
PI No.	PI-32-1
SFA	22+100.000
N	1266774.941
E	5132559.480
RC	8000
CL	84.109
TL	42.055
TA	00°36'5.583"



TYPE	CROSS SECTION	SLOPE	ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-4	TYPE-7	NC	NC	Rc=∞ L=2068.364	21+700	9.57	10.463	0.00
					21+720	9.64	10.463	0.00
					21+740	9.68	10.462	0.00
					21+760	9.72	10.461	0.00
					21+780	9.74	10.460	0.00
					21+800	9.74	10.459	0.00
					21+820	9.72	10.458	0.00
					21+840	9.70	10.457	0.00
					21+860	9.69	10.456	0.00
					21+880	9.67	10.455	0.00
					21+900	9.71	10.454	0.00
					21+920	9.77	10.454	0.00
					21+940	9.76	10.453	0.00
					21+960	9.66	10.452	0.00
					21+980	9.70	10.451	0.00
TYPE-7	TYPE-7	NC	NC	Rc=∞ L=392.433	22+000	9.74	10.450	0.00
					22+020	9.76	10.449	0.00
					22+040	9.75	10.448	0.00
					22+060	9.73	10.447	0.00
					22+080	9.72	10.446	0.00
					22+100	9.73	10.445	0.00
					22+120	9.71	10.443	0.00
					22+140	9.65	10.442	0.00
					22+160	9.63	10.441	0.00
					22+180	9.53	10.440	0.00
					22+200	9.56	10.439	0.00
					22+220	9.58	10.438	0.00
					22+240	9.56	10.437	0.00
					22+260	9.62	10.436	0.00
					22+280	9.66	10.435	0.00
22+300	9.72	10.434	0.00					
22+320	9.76	10.433	0.00					
22+340	9.83	10.432	0.00					
22+360	9.83	10.430	0.00					
22+380	9.81	10.429	0.00					
22+400	9.79	10.428	0.00					
R _c =850 L _c =526.336 A=300 L _s =109.091					22+326	3.00	3.00	0.00
R _c =∞ L=392.433					22+276	3.00	3.00	0.00
R _c =∞ L=109.091					22+326	3.00	3.00	0.00
R _c =850 L _c =526.336					22+326	3.00	3.00	0.00
R _c =∞ L=392.433					22+276	3.00	3.00	0.00
R _c =∞ L=109.091					22+326	3.00	3.00	0.00
R _c =850 L _c =526.336					22+326	3.00	3.00	0.00

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

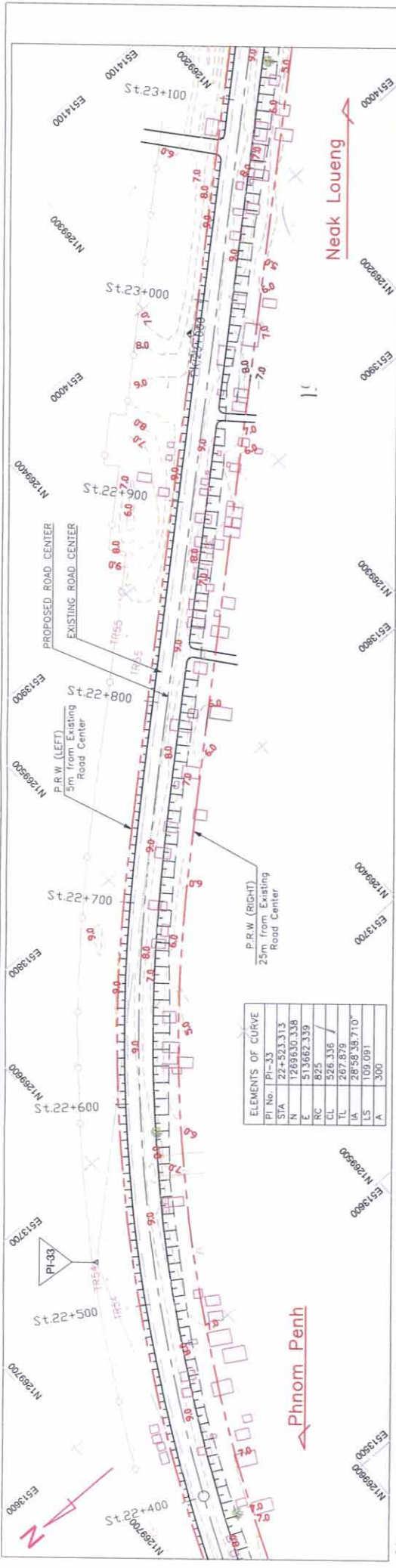
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

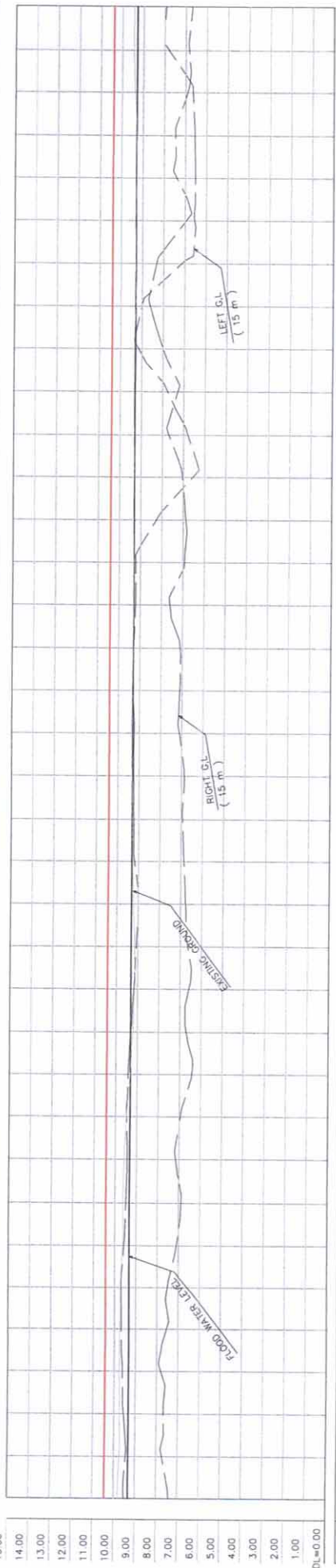
TITLE : PLAN AND PROFILE (STA.21+700 - STA.22+400)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-32



ELEMENTS OF CURVE	
PI No.	PI-33
STA	22+523.313
N	1269630.339
E	513662.339
RC	823
CL	526.336
TL	269.829
LA	28°58'58.710"
LS	109.091
A	300



TYPE	SECTION	TYPE
TYPE-7		TYPE-7
VERTICAL ALIGNMENT		
HEIGHT		
GROUND HEIGHT		
STATION		
HORIZONTAL CURVATURE		
SURFACE ELEVATION		
TYPE-7		TYPE-7

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

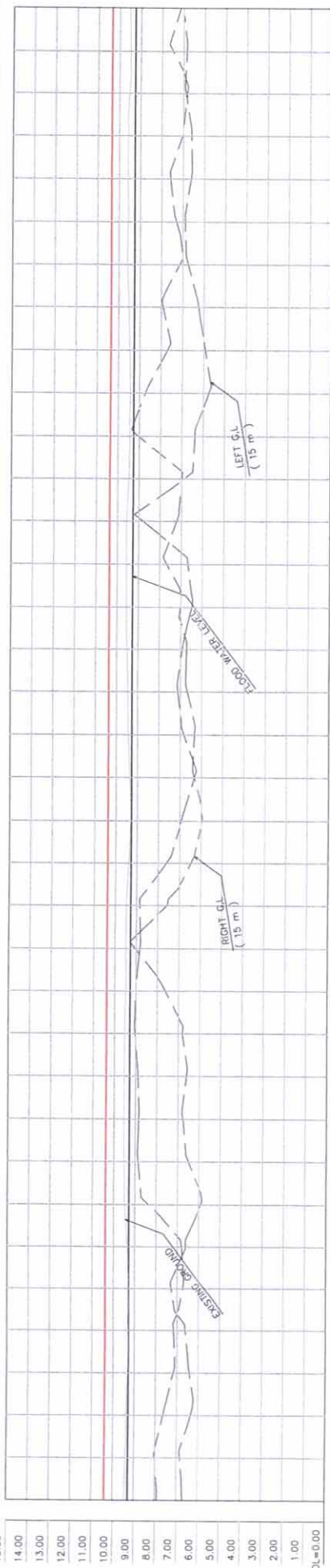
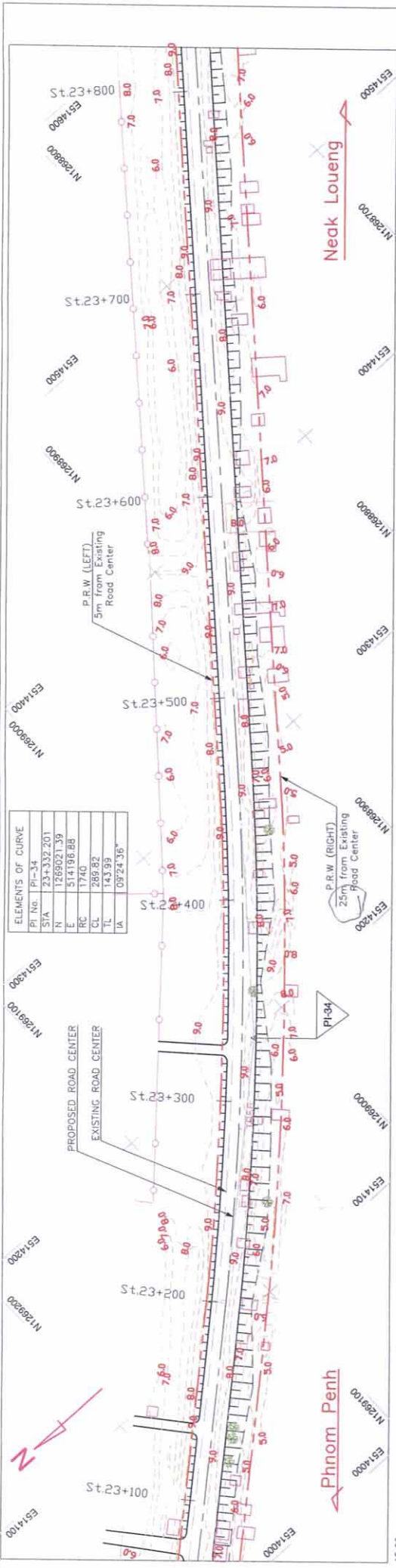
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

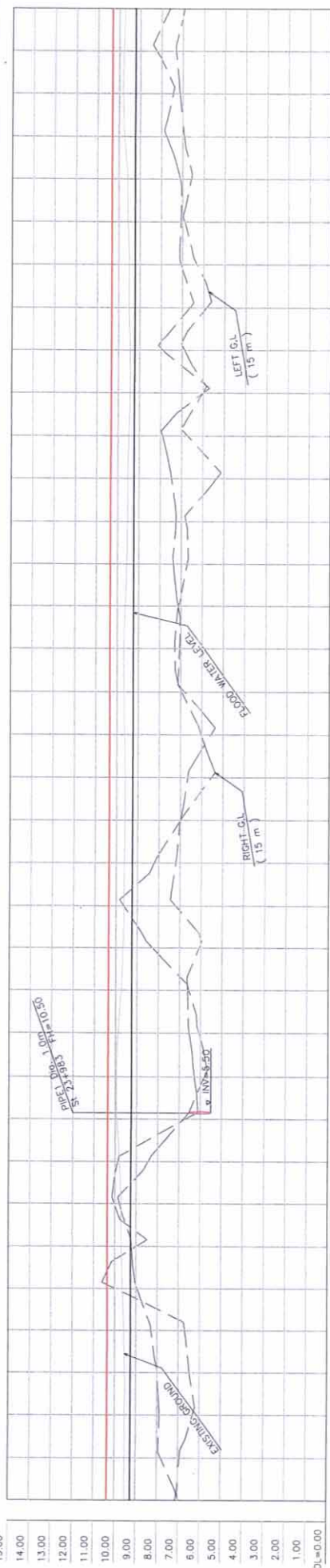
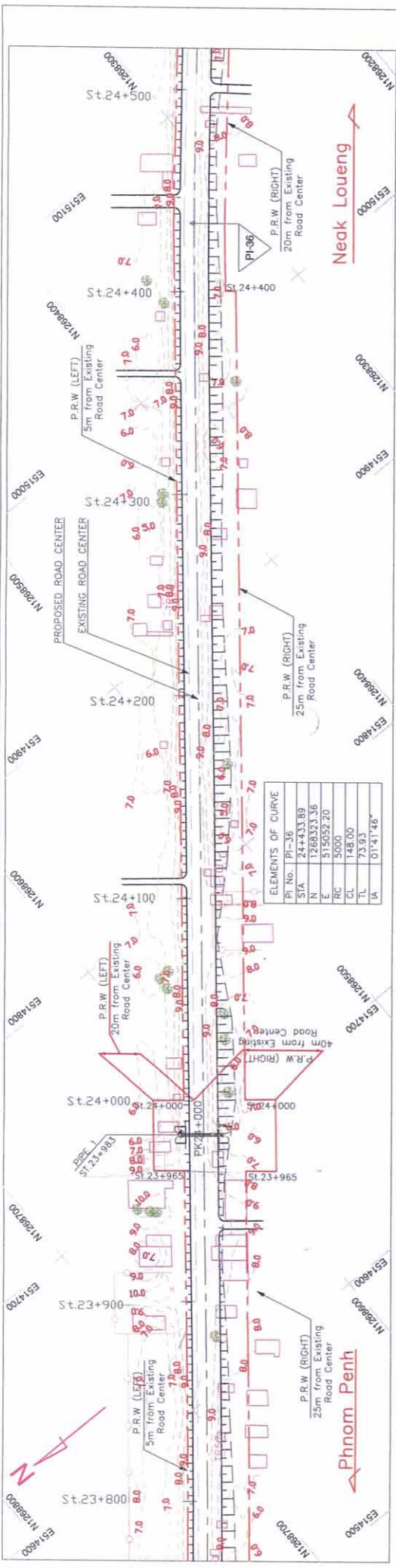
TITLE : PLAN AND PROFILE (STA.22+400 - STA.23+100)

SCALE H=1/2000 V=1/200

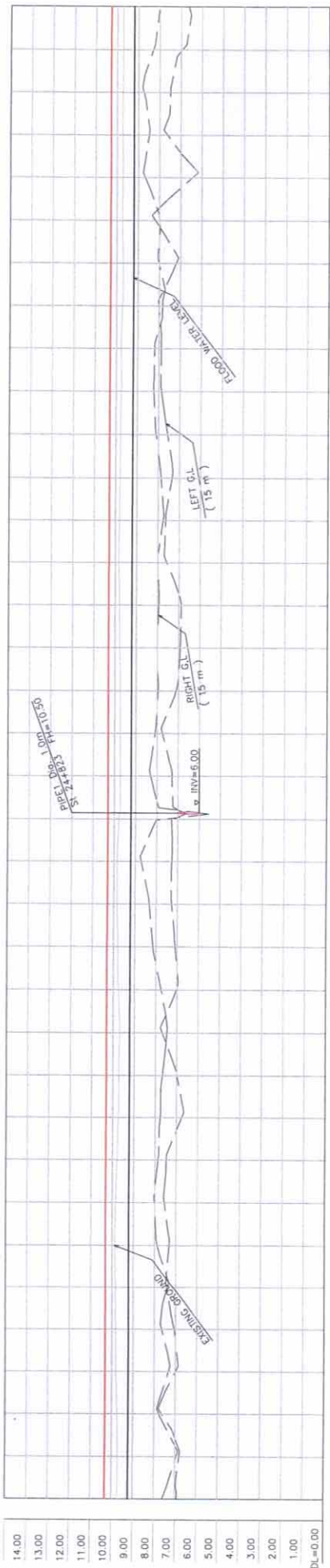
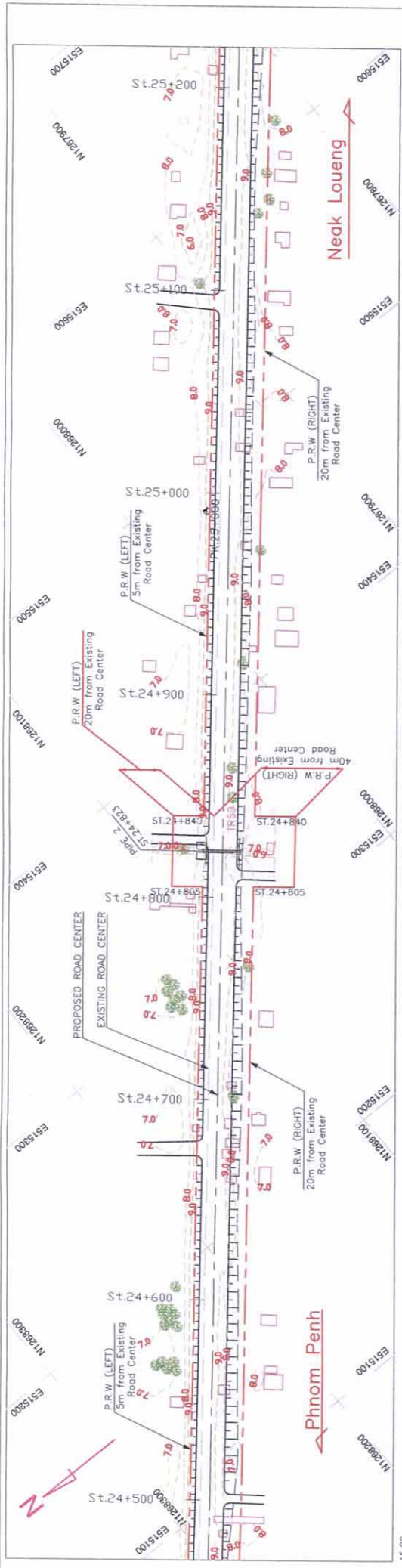
Drawing No. Sheet No. PL-33



TYPE	SECTION	CROSS	TYPE	TYPE
TYPE-7	TYPE-7	TYPE-7	TYPE-7	TYPE-7
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	SCALE H=1/2000 V=1/200	Drawing No. Sheet No PL-34
STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT	
-23+100	9.44	10.390		
-23+120	9.41	10.389		
-23+140	9.37	10.388		
-23+160	9.32	10.387		
-23+180	9.28	10.386		
-23+200	9.29	10.385		
-23+220	9.35	10.384		
-23+240	9.47	10.383		
-23+260	9.52	10.382		
-23+280	9.55	10.381		
-23+300	9.54	10.379		
-23+320	9.53	10.378		
-23+340	9.47	10.377		
-23+360	9.48	10.376		
-23+380	9.48	10.375		
-23+400	9.38	10.374		
-23+420	9.32	10.373		
-23+440	9.36	10.372		
-23+460	9.43	10.371		
-23+480	9.46	10.370		
-23+500	9.52	10.369		
-23+520	9.55	10.368		
-23+540	9.57	10.366		
-23+560	9.56	10.365		
-23+580	9.47	10.364		
-23+600	9.44	10.363		
-23+620	9.43	10.362		
-23+640	9.47	10.361		
-23+660	9.52	10.360		
-23+680	9.60	10.359		
-23+700	9.57	10.358		
-23+720	9.58	10.357		
-23+740	9.57	10.356		
-23+760	9.52	10.354		
-23+780	9.48	10.353		
-23+800	9.52	10.352		
HORIZONTAL CURVATURE	Rc=∞ L=414.741		Rc=∞ L=883.530	
SURF-ELEVATION	3.00 -3.00	3.00 -3.00	3.00 -3.00	3.00 -3.00
	NC	NC	NC	NC



CROSS SECTION TYPE	TYPE-7	TYPE-7
PAVEMENT HEIGHT	10.352	10.314
GROUND HEIGHT	10.351	10.315
STATION	2+3+800	2+4+500
HORIZONTAL CURVATURE	NC	NC
SUPER-ELEVATION	NC	NC
SCALES	H=1/2000 V=1/200	H=1/2000 V=1/200
TITLE	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	
PROJECT TITLE	THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA	
CLIENT	MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	
DRAWING No.	PL-35	PL-35
SHEET No.	PL-35	PL-35



STATION	GROUND ELEVATION	PAVEMENT ELEVATION	VERTICAL ALIGNMENT
24+500	9.72	10.314	
24+520	9.71	10.313	
24+540	9.74	10.312	
24+560	9.79	10.311	
24+580	9.83	10.310	
24+600	9.83	10.309	
24+620	9.86	10.308	
24+640	9.83	10.307	
24+660	9.78	10.306	
24+680	9.73	10.305	
24+700	9.72	10.303	
24+720	9.68	10.302	
24+740	9.75	10.301	
24+760	9.78	10.300	
24+780	9.84	10.299	
24+800	9.85	10.298	
24+820	9.77	10.297	
24+840	9.73	10.296	
24+860	9.73	10.295	
24+880	9.74	10.294	
24+900	9.76	10.293	
24+920	9.79	10.292	
24+940	9.82	10.290	
24+960	9.81	10.289	
24+980	9.78	10.288	
25+000	9.78	10.287	
25+020	9.75	10.286	
25+040	9.77	10.285	
25+060	9.71	10.284	
25+080	9.70	10.283	
25+100	9.73	10.282	
25+120	9.72	10.281	
25+140	9.73	10.280	
25+160	9.72	10.279	
25+180	9.71	10.277	
25+200	9.72	10.276	

$R_c = \infty$
 $L = 1675.844$
 $R = 0.050$
 $R = 25.0$

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

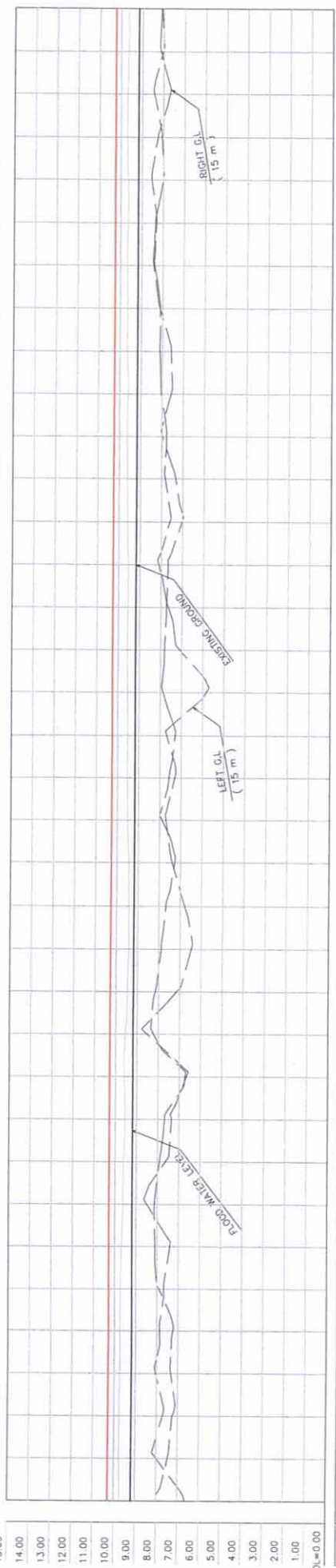
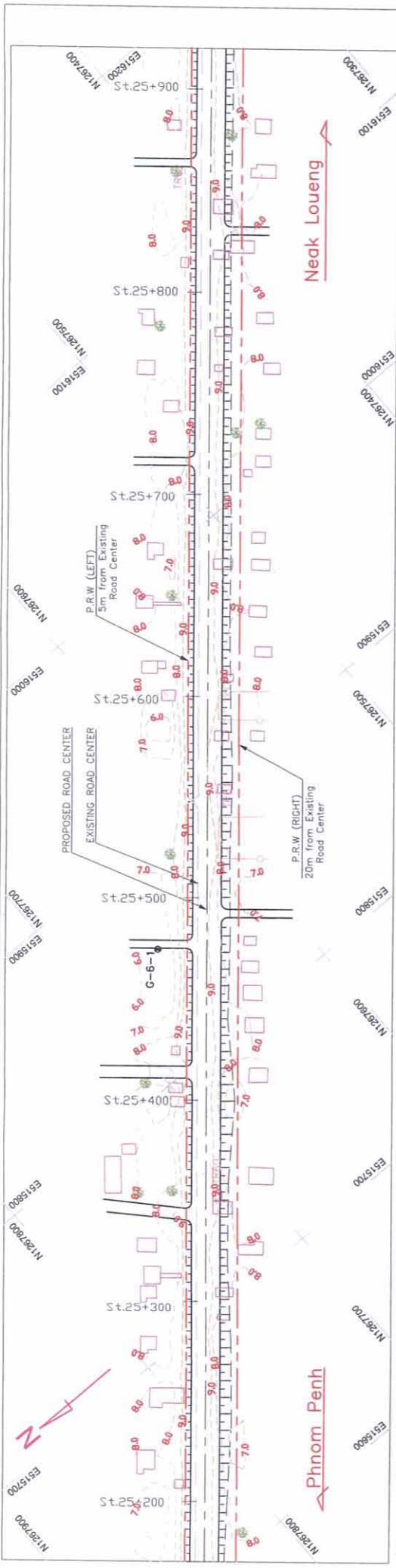
TITLE : PLAN AND PROFILE (STA.24+500 – STA.25+200)

SCALE H=1/2000 V=1/200

Drawing No. PL-36

Sheet No. PL-36

TYPE-7



TYPE	CROSS SECTION	SLOPE ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-7				-25+200	9.72		
				-25+220	9.76		
				-25+240	9.75		
				-25+260	9.73		
				-25+280	9.74		
				-25+300	9.71		
				-25+320	9.67		
				-25+340	9.60		
				-25+360	9.59		
				-25+380	9.53		
				-25+400	9.59		
				-25+420	9.55		
				-25+440	9.46		
				-25+460	9.40		
				-25+480	9.42		
				-25+500	9.43		
				-25+520	9.50		
				-25+540	9.53		
				-25+560	9.52		
				-25+580	9.54		
				-25+600	9.56		
				-25+620	9.54		
				-25+640	9.54		
				-25+660	9.58		
				-25+680	9.61		
				-25+700	9.64		
				-25+720	9.59		
				-25+740	9.65		
				-25+760	9.63		
				-25+780	9.67		
				-25+800	9.63		
				-25+820	9.65		
				-25+840	9.68		
				-25+860	9.69		
				-25+880	9.64		
				-25+900	9.65		

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

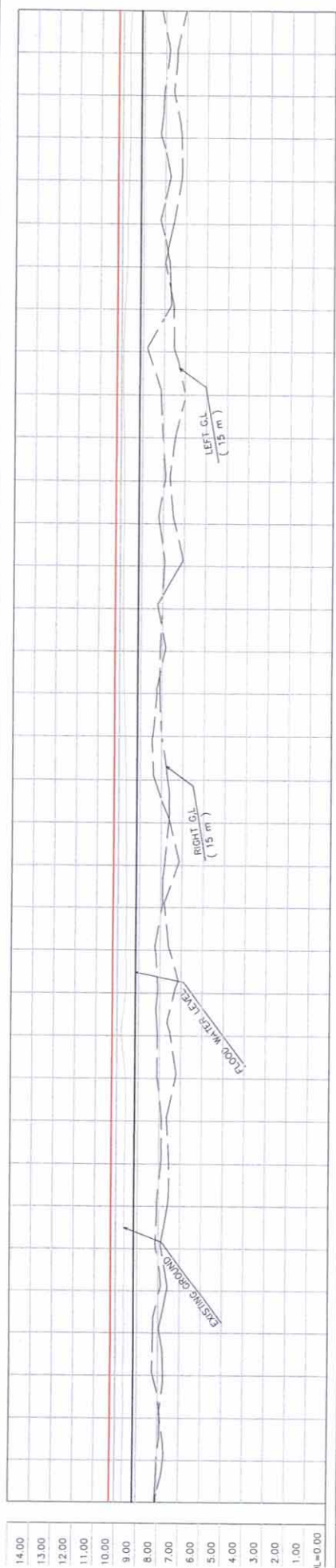
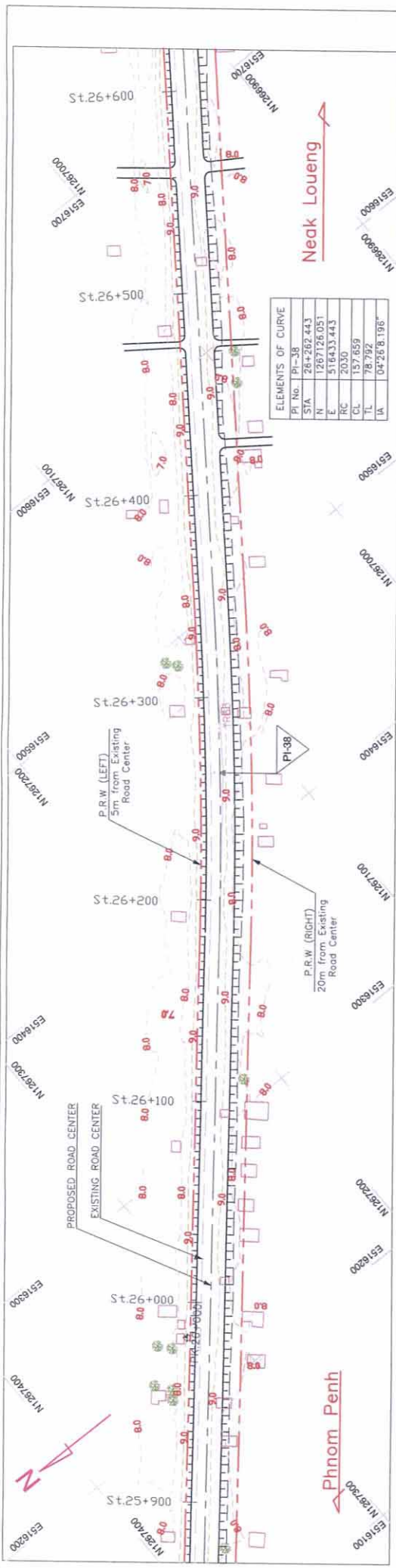
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.25+200 - STA.25+900)

SCALE H=1/2000 V=1/200

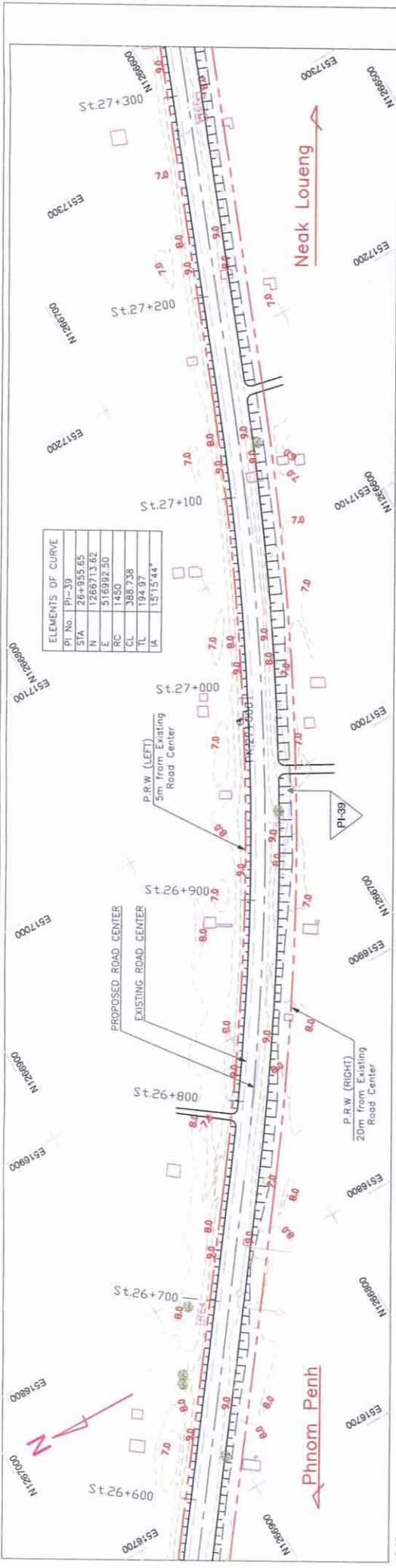
Drawing No. Sheet No. PL-37

TYPE-7

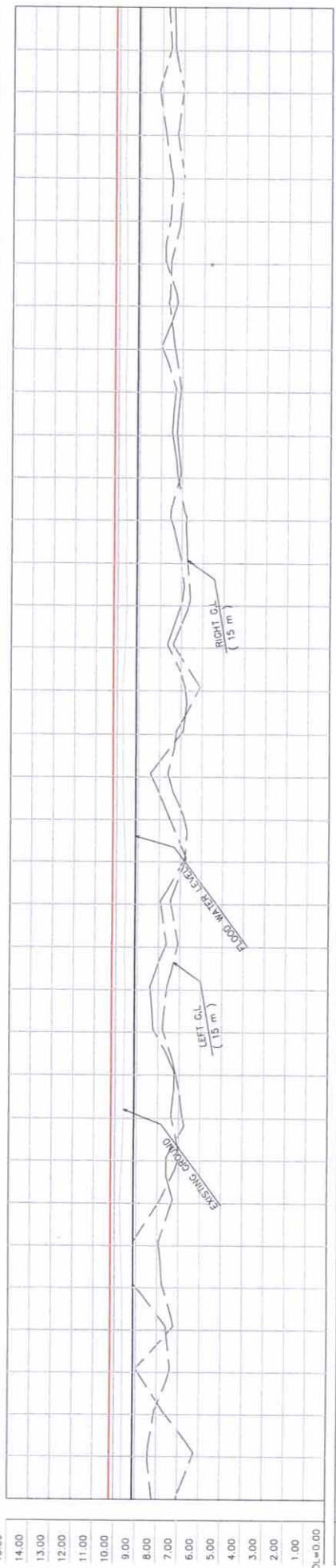


VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PAVEMENT HEIGHT
RC=2030 Lc=157.659	10.238	9.65	-25+900
	10.237	9.64	-25+920
	10.236	9.61	-25+940
	10.235	9.63	-25+960
	10.234	9.60	-25+980
	10.233	9.63	-26+000
	10.232	9.59	-26+020
	10.231	9.62	-26+040
	10.230	9.61	-26+060
	10.229	9.58	-26+080
RC=2030 Lc=157.659	10.228	9.58	-26+100
	10.226	9.79	-26+120
	10.225	9.60	-26+140
	10.224	9.61	-26+160
	10.223	9.58	-26+180
	10.222	9.62	-26+200
	10.221	9.64	-26+220
	10.220	9.67	-26+240
	10.219	9.70	-26+260
	10.218	9.76	-26+280
RC=2030 Lc=157.659	10.217	9.80	-26+300
	10.216	9.83	-26+320
	10.214	9.84	-26+340
	10.213	9.81	-26+360
	10.212	9.83	-26+380
	10.211	9.84	-26+400
	10.210	9.89	-26+420
	10.209	9.91	-26+440
	10.208	9.85	-26+460
	10.207	9.76	-26+480
RC=2030 Lc=157.659	10.206	9.73	-26+500
	10.205	9.68	-26+520
	10.204	9.64	-26+540
	10.203	9.65	-26+560
	10.201	9.69	-26+580
	10.200	9.66	-26+600

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	PLAN AND PROFILE (STA.25+900 - STA.26+600)	SCALE H=1/2000 V=1/200	Drawing No. Sheet No. PL-38
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ELEMENTS OF CURVE	
PI No.	PI-39
SFA	26+955.65
N	1266713.62
E	516992.50
RC	1450
CL	388.738
TL	194.97
LA	15°15'44"



TYPE SECTION	TYPE	CROSS ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-7	TYPE-7	3.00	NC	-26+800	9.64	9.64	10.200
		3.00	NC	-26+820	9.63	9.63	10.198
TYPE-7	TYPE-7	3.00	NC	-26+840	9.58	9.58	10.188
		3.00	NC	-26+860	9.55	9.55	10.187
TYPE-7	TYPE-7	3.00	NC	-26+880	9.58	9.58	10.185
		3.00	NC	-26+900	9.58	9.58	10.184
TYPE-7	TYPE-7	3.00	NC	-26+920	9.66	9.66	10.183
		3.00	NC	-26+940	9.71	9.71	10.182
TYPE-7	TYPE-7	3.00	NC	-26+960	9.72	9.72	10.181
		3.00	NC	-26+980	9.74	9.74	10.180
TYPE-7	TYPE-7	3.00	NC	-27+000	9.62	9.62	10.179
		3.00	NC	-27+020	9.57	9.57	10.178
TYPE-7	TYPE-7	3.00	NC	-27+040	9.61	9.61	10.177
		3.00	NC	-27+060	9.60	9.60	10.175
TYPE-7	TYPE-7	3.00	NC	-27+080	9.63	9.63	10.174
		3.00	NC	-27+100	9.66	9.66	10.173
TYPE-7	TYPE-7	3.00	NC	-27+120	9.67	9.67	10.172
		3.00	NC	-27+140	9.63	9.63	10.171
TYPE-7	TYPE-7	3.00	NC	-27+160	9.63	9.63	10.170
		3.00	NC	-27+180	9.63	9.63	10.169
TYPE-7	TYPE-7	3.00	NC	-27+200	9.65	9.65	10.168
		3.00	NC	-27+220	9.71	9.71	10.167
TYPE-7	TYPE-7	3.00	NC	-27+240	9.71	9.71	10.166
		3.00	NC	-27+260	9.66	9.66	10.165
TYPE-7	TYPE-7	3.00	NC	-27+280	9.67	9.67	10.163
		3.00	NC	-27+300	9.69	9.69	10.162

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

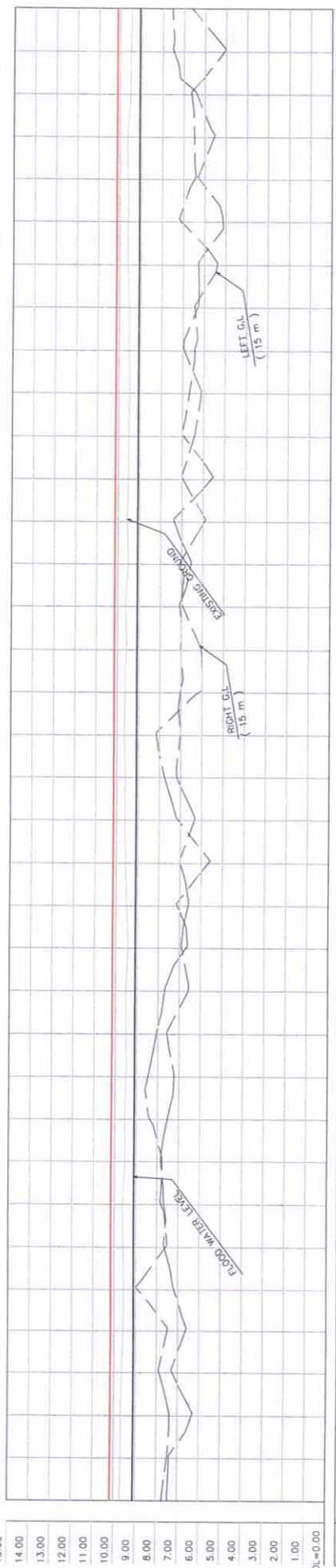
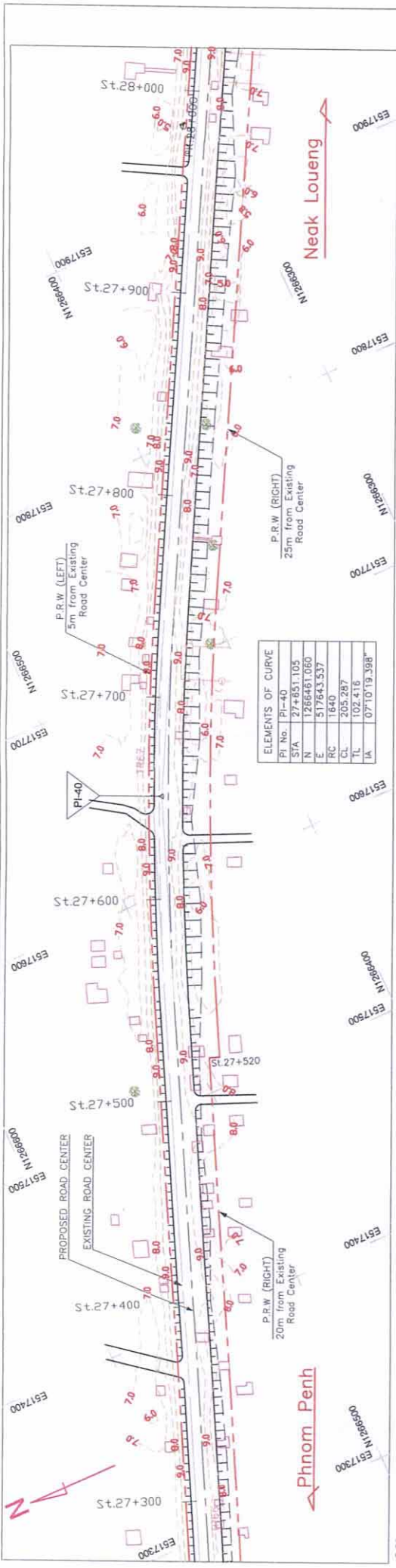
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

TITLE : PLAN AND PROFILE (STA.26+600 - STA.27+300)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-39

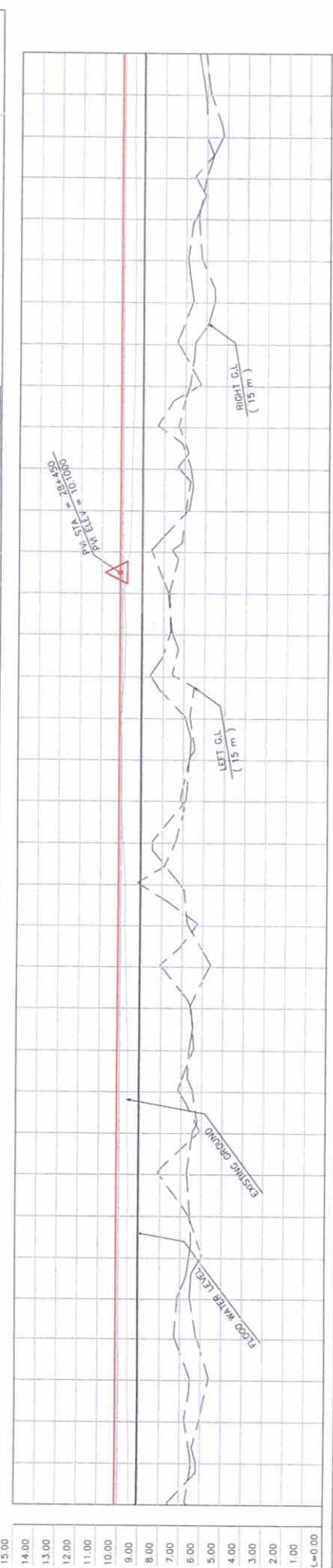
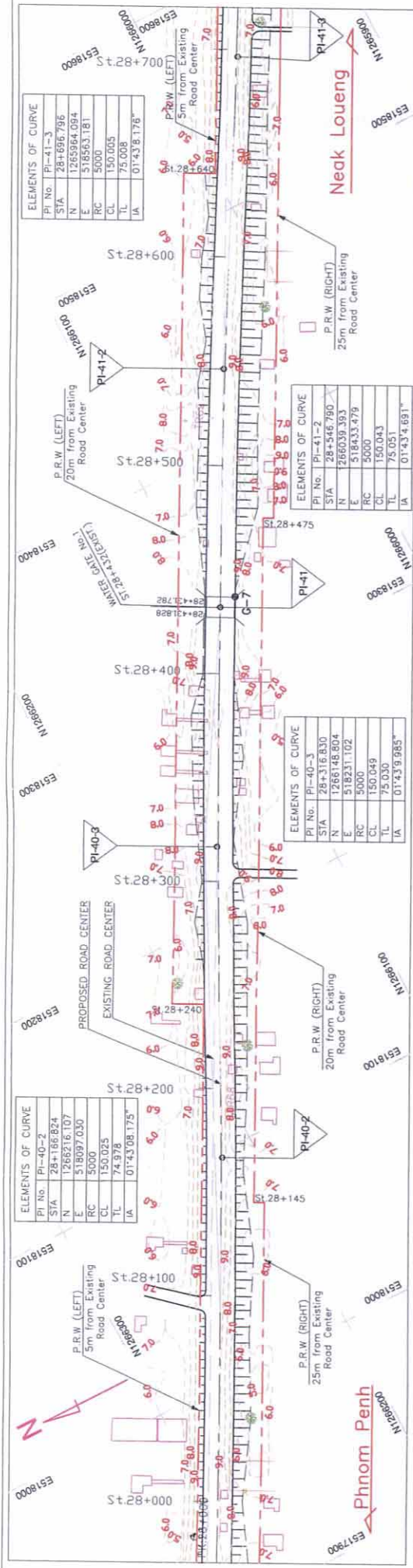


STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL CURVATURE
-27+300	9.69	9.66	0.000
-27+320	9.66	9.66	0.000
-27+340	9.67	9.62	0.000
-27+360	9.62	9.57	0.000
-27+380	9.56	9.54	0.000
-27+400	9.54	9.54	0.000
-27+420	9.57	9.57	0.000
-27+440	9.60	9.60	0.000
-27+460	9.51	9.51	0.000
-27+480	9.53	9.53	0.000
-27+500	9.47	9.47	0.000
-27+520	9.49	9.49	0.000
-27+540	9.51	9.51	0.000
-27+560	9.41	9.41	0.000
-27+580	9.49	9.49	0.000
-27+600	9.56	9.56	0.000
-27+620	9.61	9.61	0.000
-27+640	9.59	9.59	0.000
-27+660	9.65	9.65	0.000
-27+680	9.61	9.61	0.000
-27+700	9.58	9.58	0.000
-27+720	9.63	9.63	0.000
-27+740	9.51	9.51	0.000
-27+760	9.56	9.56	0.000
-27+780	9.51	9.51	0.000
-27+800	9.51	9.51	0.000
-27+820	9.49	9.49	0.000
-27+840	9.53	9.53	0.000
-27+860	9.53	9.53	0.000
-27+880	9.60	9.60	0.000
-27+900	9.60	9.60	0.000
-27+920	9.60	9.60	0.000
-27+940	9.63	9.63	0.000
-27+960	9.50	9.50	0.000
-27+980	9.50	9.50	0.000
-28+000	9.44	9.44	0.000

RC=1640, Lc=205.287

RC=1640, Lc=400.932

RC=1640, Lc=678.035



STATION	PAVEMENT HEIGHT	GROUND HEIGHT	VERTICAL ALIGNMENT
28+000	9.44	10.124	
28+020	9.45	10.123	
28+040	9.50	10.122	
28+060	9.56	10.121	
28+080	9.53	10.120	
28+100	9.57	10.119	
28+120	9.57	10.118	
28+140	9.56	10.117	
28+160	9.55	10.116	
28+180	9.61	10.115	
28+200	9.60	10.114	
28+220	9.59	10.112	
28+240	9.66	10.111	
28+260	9.71	10.110	
28+280	9.77	10.109	
28+300	9.76	10.108	
28+320	9.90	10.107	
28+340	9.98	10.106	
28+360	9.99	10.105	
28+380	9.98	10.104	
28+400	9.87	10.103	
28+420	9.81	10.102	
28+440	9.89	10.101	
28+460	9.65	10.100	
28+480	9.57	10.099	
28+500	9.57	10.098	
28+520	9.51	10.097	
28+540	9.45	10.097	
28+560	9.45	10.096	
28+580	9.42	10.095	
28+600	9.43	10.094	
28+620	9.41	10.094	
28+640	9.48	10.093	
28+660	9.51	10.092	
28+680	9.48	10.091	
28+700	9.51	10.091	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

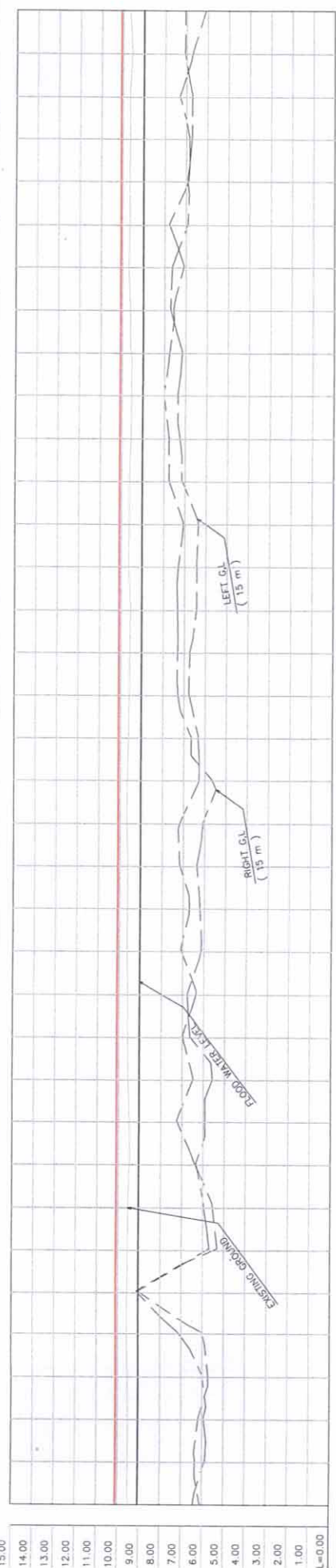
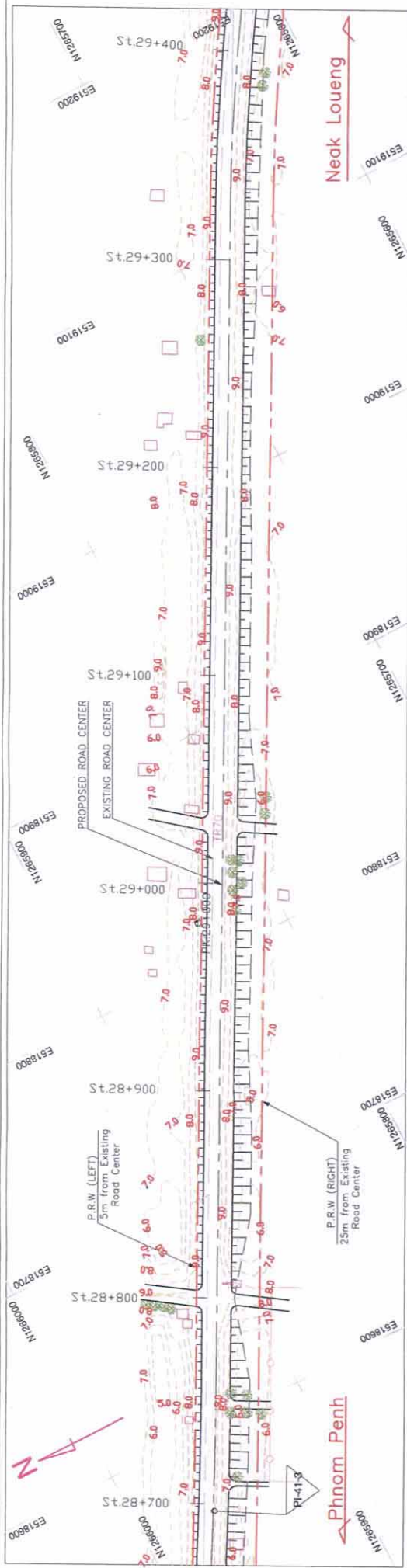
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.28+000 – STA.28+700)

SCALE
H=1/2000
V=1/200

Drawing No
Sheet No. PL-41

TYPE 7



SECTION TYPE	STATION	GROUND HEIGHT	PROFILE HEIGHT	VERTICAL ALIGNMENT
	28+700	9.51	9.51	
	28+720	9.51	9.51	
	28+740	9.51	9.51	
	28+760	9.54	9.54	
	28+780	9.56	9.56	
	28+800	9.55	9.55	
	28+820	9.53	9.53	
	28+840	9.53	9.53	
	28+860	9.46	9.46	
	28+880	9.48	9.48	
	28+900	9.54	9.54	
	28+920	9.57	9.57	
	28+940	9.58	9.58	
	28+960	9.61	9.61	
	28+980	9.62	9.62	
	29+000	9.62	9.62	
	29+020	9.66	9.66	
	29+040	9.65	9.65	
	29+060	9.60	9.60	
	29+080	9.58	9.58	
	29+100	9.57	9.57	
	29+120	9.53	9.53	
	29+140	9.63	9.63	
	29+160	9.61	9.61	
	29+180	9.62	9.62	
	29+200	9.55	9.55	
	29+220	9.54	9.54	
	29+240	9.53	9.53	
	29+260	9.62	9.62	
	29+280	9.69	9.69	
	29+300	9.63	9.63	
	29+320	9.65	9.65	
	29+340	9.63	9.63	
	29+360	9.66	9.66	
	29+380	9.55	9.55	
	29+400	9.65	9.65	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

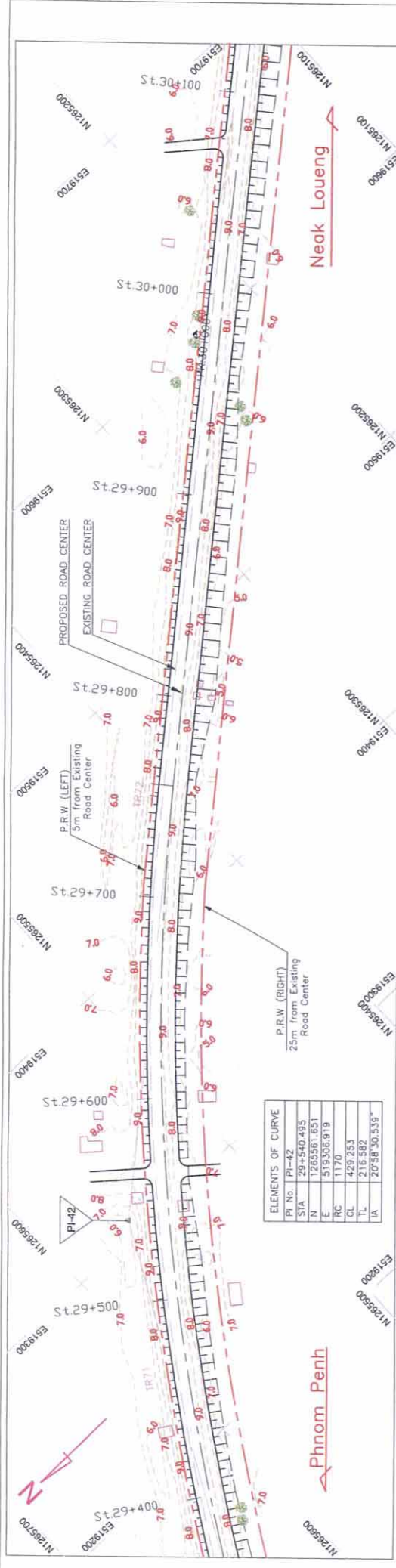
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.28+700-STA.29+400)

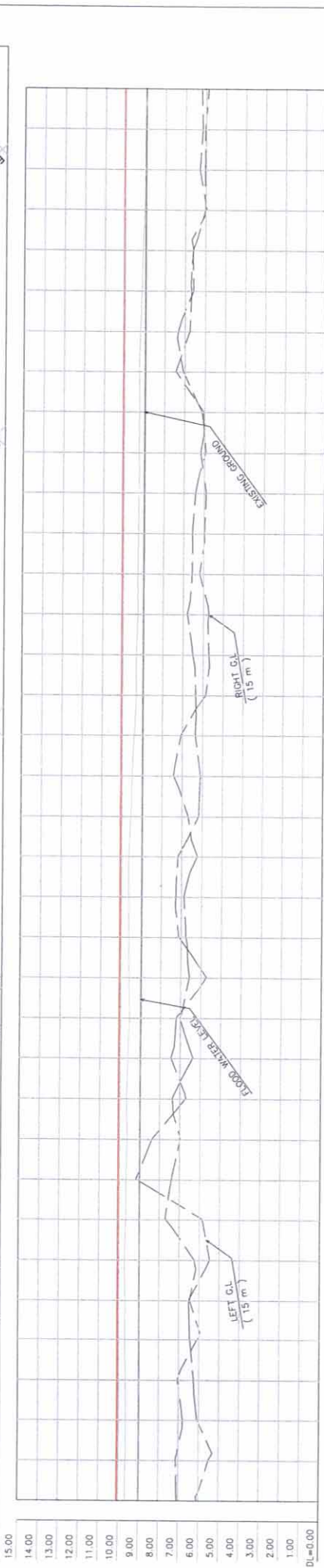
SCALE H=1/2000 V=1/200

Drawing No. _____ Sheet No. PL-42

TYPE 7

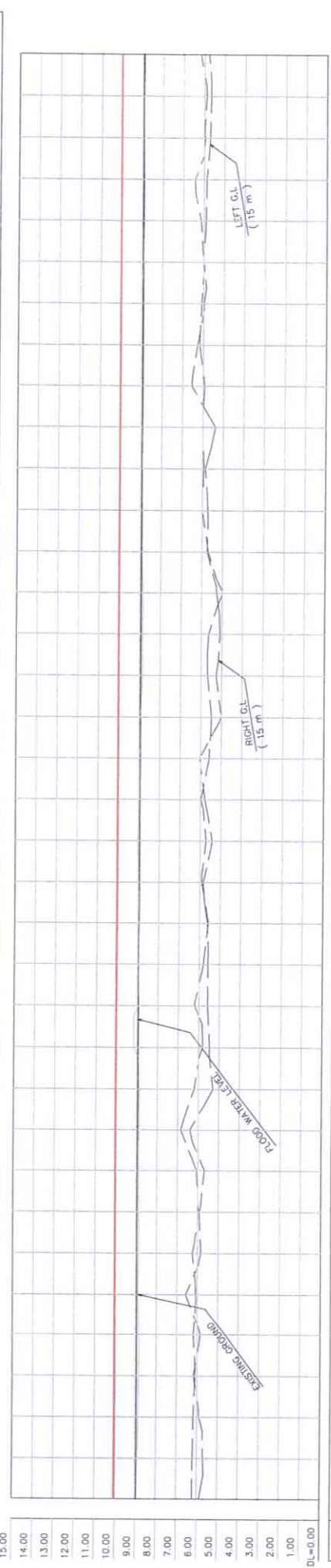
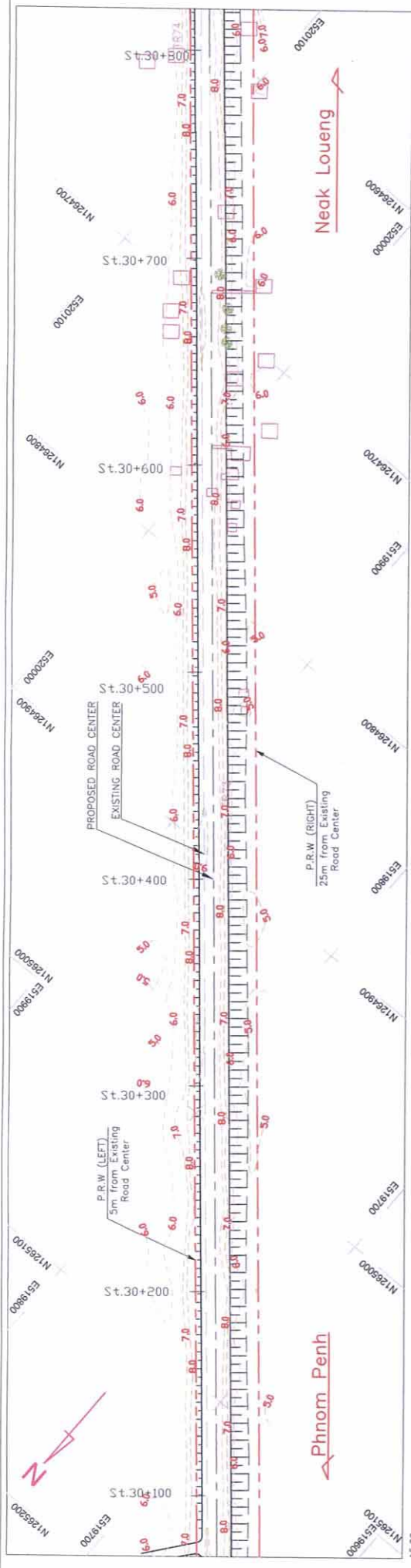


ELEMENTS OF CURVE	
PI No.	PI-42
STA	29+540.495
N	1265561.651
E	519306.919
RC	1170
CL	429.253
TL	216.582
LA	20°58'30.539"



STATION	GROUND ELEVATION	PROPOSED ROAD ELEVATION	VERTICAL ALIGNMENT
St.29+400	9.65	9.65	
St.29+420	9.63	9.63	
St.29+440	9.65	9.65	
St.29+460	9.68	9.68	
St.29+480	9.67	9.67	
St.29+500	9.71	9.71	
St.29+520	9.71	9.71	
St.29+540	9.66	9.66	
St.29+560	9.64	9.64	
St.29+580	9.61	9.61	
St.29+600	9.65	9.65	
St.29+620	9.59	9.59	
St.29+640	9.53	9.53	
St.29+660	9.58	9.58	
St.29+680	9.60	9.60	
St.29+700	9.62	9.62	
St.29+720	9.64	9.64	
St.29+740	9.54	9.54	
St.29+760	9.49	9.49	
St.29+780	9.39	9.39	
St.29+800	9.30	9.30	
St.29+820	9.31	9.31	
St.29+840	9.25	9.25	
St.29+860	9.27	9.27	
St.29+880	9.25	9.25	
St.29+900	9.23	9.23	
St.29+920	9.24	9.24	
St.29+940	9.23	9.23	
St.29+960	9.26	9.26	
St.29+980	9.22	9.22	
St.30+000	9.15	9.15	
St.30+020	9.12	9.12	
St.30+040	9.03	9.03	
St.30+060	8.98	8.98	
St.30+080	9.00	9.00	
St.30+100	8.92	8.92	

TYPE 7
 CROSS SECTION TYPE
 SUPER-ELEVATION: e=3%
 HORIZONTAL CURVATURE: R_c=1170, L_c=429.253
 EC
 R_c=∞, L=1001.422
 TITLE: PLAN AND PROFILE (STA.29+400 – STA.30+100)
 JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO.,LTD
 THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA
 MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)
 SCALE: H=1/2000, V=1/200
 Drawing No. PL-43
 Sheet No. PL-43



STATION	RIGHT C.L. (15 m)	LEFT C.L. (15 m)	EXISTING GROUND	FLOOD WATER LEVEL
St.30+100	8.92	8.90	8.86	8.85
St.30+120	8.86	8.86	8.85	8.85
St.30+140	8.86	8.86	8.85	8.85
St.30+160	8.85	8.85	8.85	8.85
St.30+180	8.85	8.85	8.85	8.85
St.30+200	8.88	8.88	8.88	8.88
St.30+220	8.86	8.86	8.86	8.86
St.30+240	8.85	8.85	8.85	8.85
St.30+260	8.87	8.87	8.87	8.87
St.30+280	8.86	8.86	8.86	8.86
St.30+300	8.87	8.87	8.87	8.87
St.30+320	9.17	9.17	9.17	9.17
St.30+340	8.92	8.92	8.92	8.92
St.30+360	8.94	8.94	8.94	8.94
St.30+380	8.94	8.94	8.94	8.94
St.30+400	8.98	8.98	8.98	8.98
St.30+420	9.04	9.04	9.04	9.04
St.30+440	8.97	8.97	8.97	8.97
St.30+460	8.96	8.96	8.96	8.96
St.30+480	8.94	8.94	8.94	8.94
St.30+500	8.84	8.84	8.84	8.84
St.30+520	8.85	8.85	8.85	8.85
St.30+540	8.85	8.85	8.85	8.85
St.30+560	8.89	8.89	8.89	8.89
St.30+580	8.89	8.89	8.89	8.89
St.30+600	8.92	8.92	8.92	8.92
St.30+620	8.96	8.96	8.96	8.96
St.30+640	8.98	8.98	8.98	8.98
St.30+660	9.01	9.01	9.01	9.01
St.30+680	9.02	9.02	9.02	9.02
St.30+700	8.92	8.92	8.92	8.92
St.30+720	8.89	8.89	8.89	8.89
St.30+740	8.89	8.89	8.89	8.89
St.30+760	8.91	8.91	8.91	8.91
St.30+780	8.92	8.92	8.92	8.92
St.30+800	8.88	8.88	8.88	8.88

TYPE 7
 CROSS SECTION
 SUPER-ELEVATION: NG
 HORIZONTAL CURVATURE: $R_c = \infty$, $L = 1001.422$
 BC: $R_c = 5000$, $L_c = 150.006$

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)
 THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA
 JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD
 TITLE: PLAN AND PROFILE (STA.30+100 - STA.30+800)
 SCALE: H=1/2000, V=1/200
 Drawing No. PL-44, Sheet No. PL-44