

ROUTE 16A: TOTAL LENGTH = 64.138km

1. LOCATION MAP

2. PLAN AND PROFILE

: R16-PP-001 – R14-PP-036

3. TYPICAL CROSS SECTIONS

: R16-TC-001 – R16-TC-002

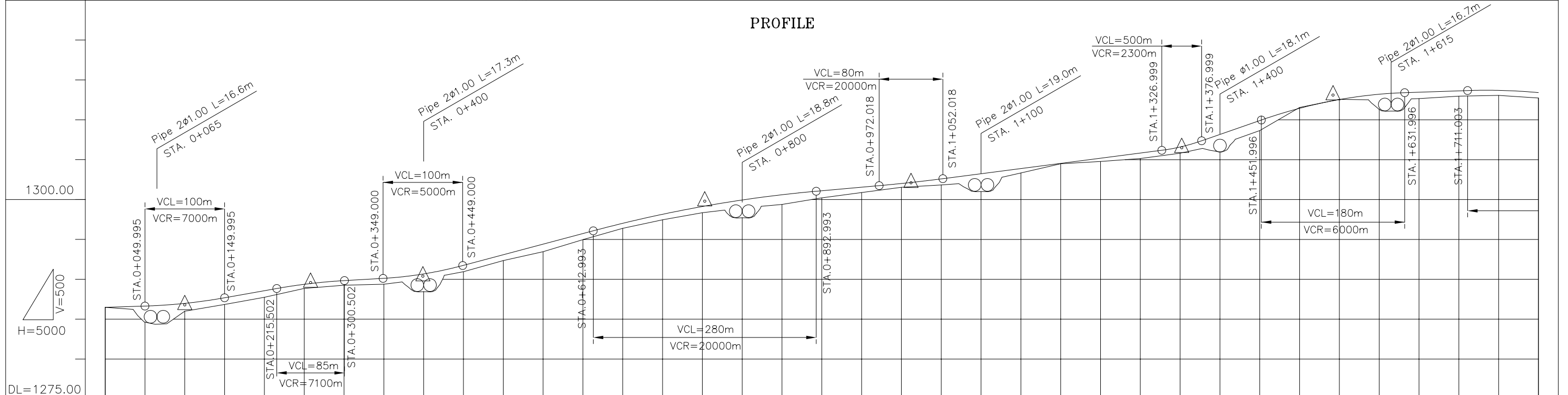
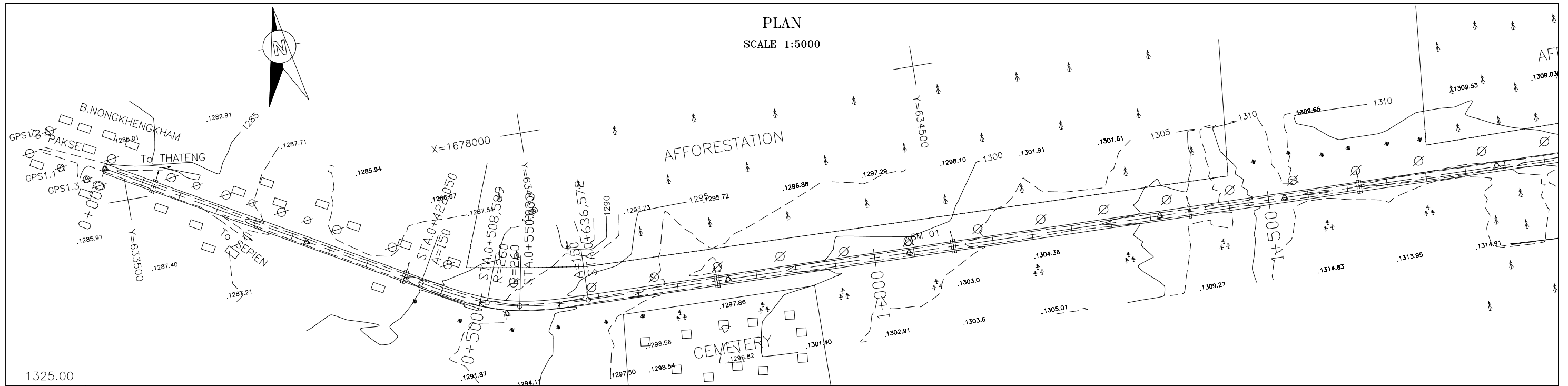
4. JUNCTION

: R16-JT-001 – R14-JT-004

5. BRIDGE

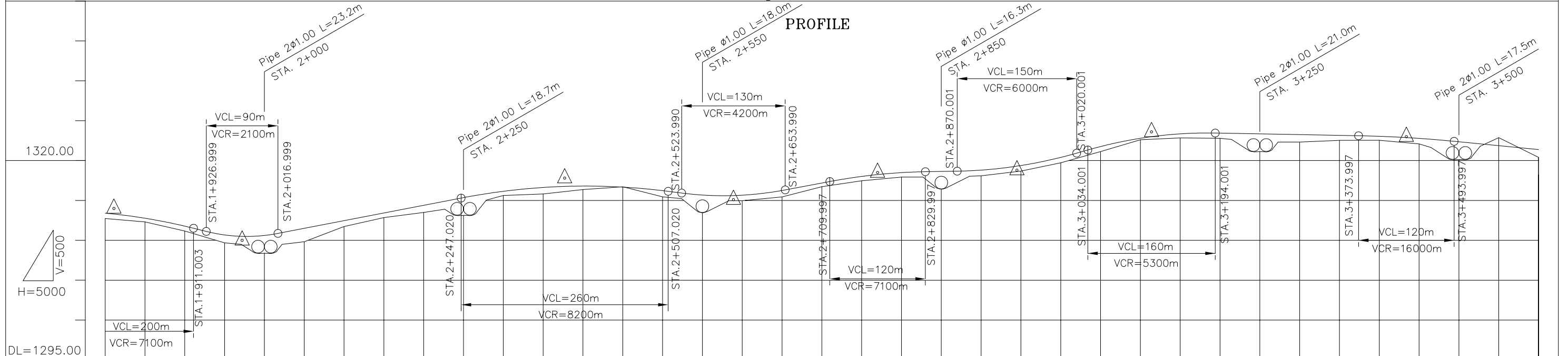
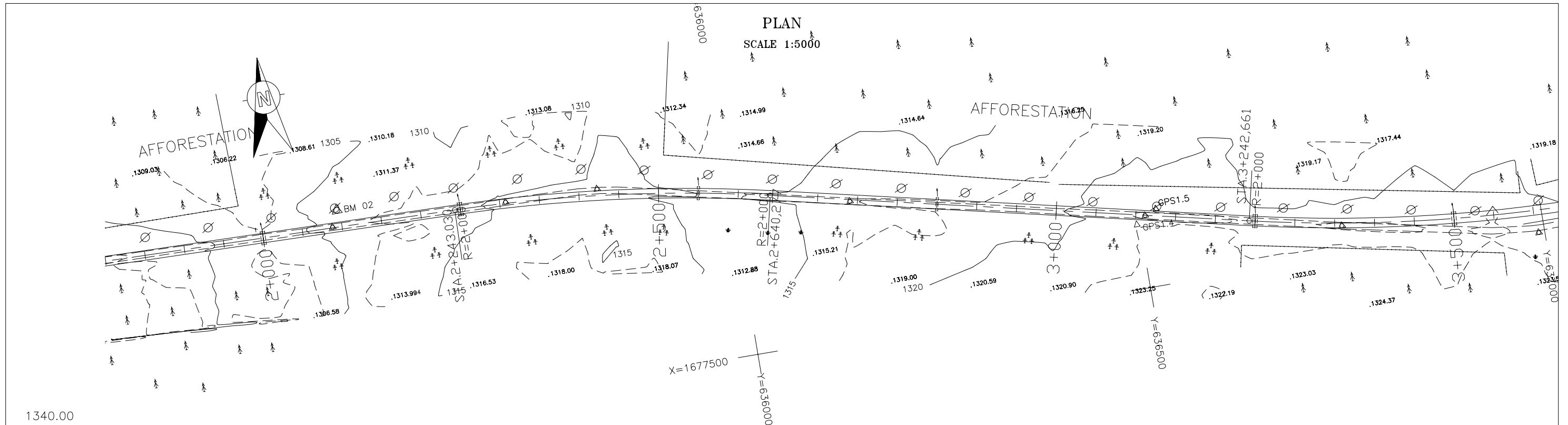
: R16-BR-001 – R16-BR-007

2. PLAN AND PROFILE



VERTICAL GRADIENT	$i = -0.309\%$ $i = 1.772\%$ $i = -0.567\%$ $i = 2.655\%$ $i = 0.888\%$ $i = 1.294\%$ $i = 3.474\%$ $i = 0.334\%$																																																
PROPOSAL HEIGHT	1286.461	1286.616	1286.953	1287.656	1288.542	1289.344	1289.471	1289.808	1290.092	1290.660	1290.647	1290.370	1291.724	1293.052	1294.380	1295.707	1296.992	1298.124	1299.180	1299.098	1299.914	1300.573	1301.075	1301.519	1301.983	1302.140	1302.562	1303.209	1303.856	1304.503	1305.150	1305.797	1306.559	1306.635	1306.84	1308.137	1308.874	1311.410	1312.393	1312.511	1312.46	1313.175	1313.431	1313.599	1313.03	1313.659	1313.375	1313.294	1313.970
GROUND HEIGHT	1286.46	1286.10	1285.97	1286.82	1287.71	1288.83	1289.471	1289.23	1289.36	1289.98	1290.647	1290.93	1291.724	1292.32	1293.43	1294.380	1294.95	1296.36	1297.43	1298.35	1298.52	1298.91	1299.36	1300.18	1300.85	1301.50	1301.57	1301.81	1302.16	1303.31	1304.46	1304.74	1305.11	1305.78	1305.82	1306.84	1308.61	1311.51	1312.37	1312.54	1312.46	1313.175	1312.63	1312.93	1313.03	1313.659	1312.70	1313.294	1313.970
STATION	0+000	0+050	0+100	0+150	0+200	0+250	0+258	0+300	0+350	0+399	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+749	0+750	0+800	0+850	0+900	0+950	1+000	1+012	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+352	1+400	1+450	1+500	1+542	1+550	1+600	1+650	1+700	1+750	1+800	1+811					
CURVATURE BAND	$R = i$										$A = 150$ $R = 260$ $A = 150$										$R = i$																												

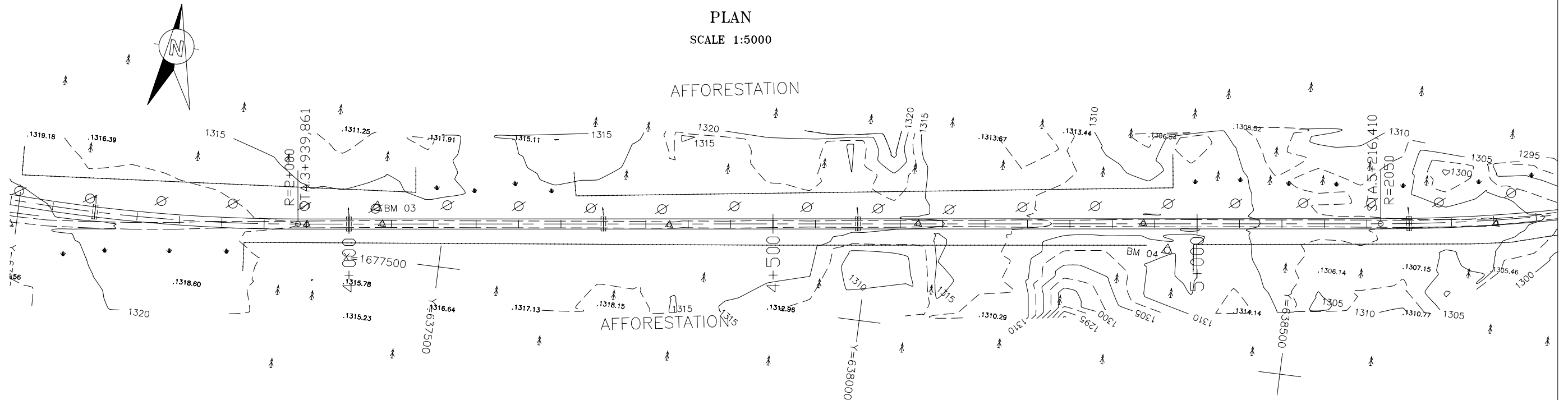
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 0+000.000 TO 1+800.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO. R16-PP-001
No.	REVISION	DATE	



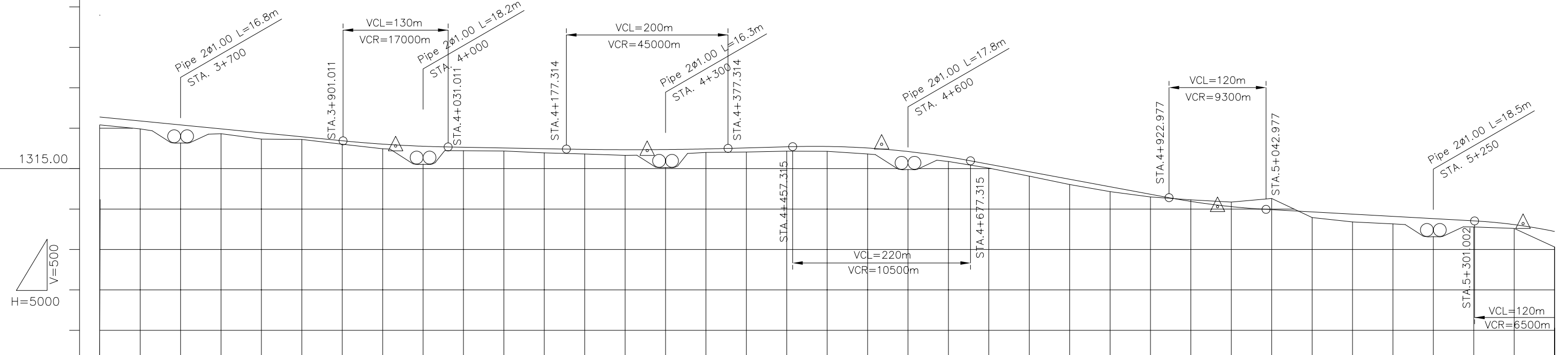
VERTICAL GRADIENT	i = -2.484%		i = 1.926%		i = -1.274%		i = 1.878%		i = 0.171%		i = 0.840%		i = -0.188%	
PROPOSAL HEIGHT	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970	1313.970
GROUND HEIGHT	1312.70	1312.66	1312.28	1311.13	1309.66	1309.45	1309.20	1309.79	1311.70	1312.82	1313.398	1314.361	1314.22	1315.324
STATION	1+800	1+811	1+850	1+900	1+950	1+972	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350
CURVATURE BAND	R=2000										R=200			

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 1+800.000 TO 3+600.000	DESIGNED BY	
						CHECKED BY	
						APPROVED BY	
						DWG. NO.	R16-PP-002

PLAN
SCALE 1:5000



PROFILE



VERTICAL GRADIENT	i=-0.977%		$\frac{1}{R}=1$		i=-0.182%		$\frac{1}{R}=1$		i=0.267%		$\frac{1}{R}=1$		i=-1.856%		$\frac{1}{R}=1$		i=-0.554%		$\frac{1}{R}=1$																							
PROPOSAL HEIGHT	1320.347	1320.859	1320.370	1319.881	1319.393	1318.904	1318.415	1317.928	1317.438	1317.617	1317.526	1317.435	1317.350	1317.313	1317.345	1317.332	1317.407	1317.532	1317.666	1317.712	1317.519	1317.425	1317.980	1317.084	1316.409	1315.517	1314.589	1313.661	1312.733	1311.804	1310.916	1310.489	1310.270	1309.893	1309.616	1309.339	1309.062	1308.785	1308.508	1308.046	1307.922	1307.199
GROUND HEIGHT	1320.38	1319.88	1319.11	1319.28	1318.63	1318.58	1317.99	1317.42	1317.35	1317.18	1317.15	1316.92	1316.78	1316.61	1316.65	1316.69	1316.97	1317.02	1317.13	1317.10	1316.78	1316.65	1316.41	1315.85	1315.04	1314.04	1313.00	1312.13	1311.47	1311.11	1310.92	1310.83	1311.28	1308.92	1308.38	1308.14	1307.84	1307.76	1307.57	1307.06	1305.28	
STATION	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	3+966	4+000	4+050	4+100	4+150	4+200	4+250	4+277	4+300	4+350	4+400	4+450	4+500	4+550	4+567	4+600	4+650	4+700	4+750	4+800	4+850	4+900	4+950	4+983	5+000	5+050	5+100	5+150	5+200	5+250	5+300	5+350	5+361	5+400
CURVATURE BAND	R=2000										R=1										R=2050																					

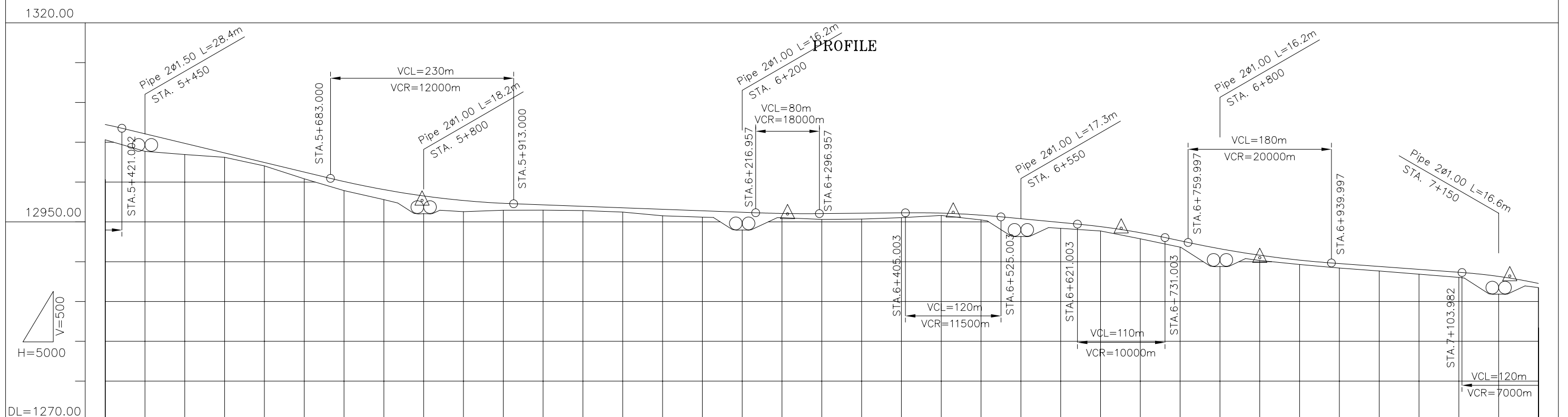
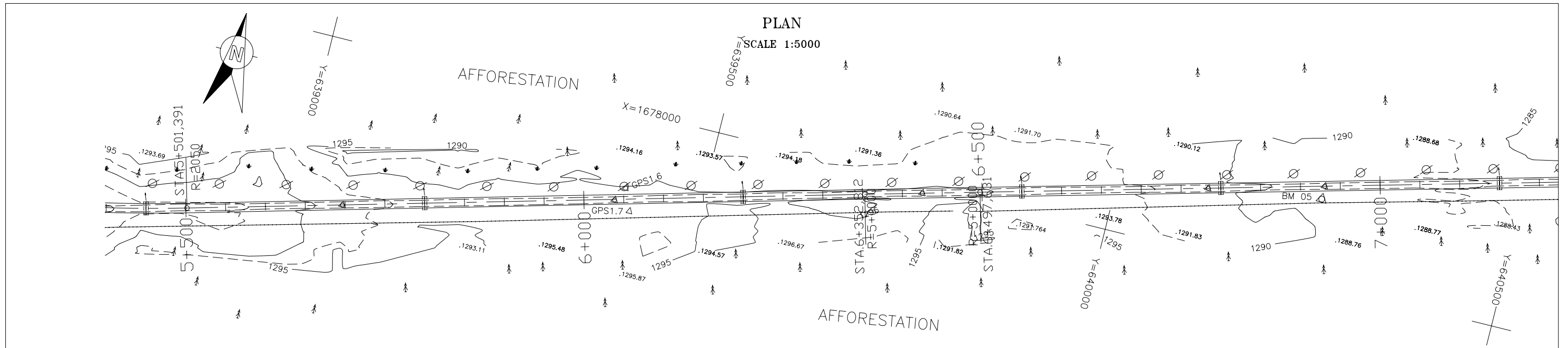
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

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

No.	REVISION	DATE
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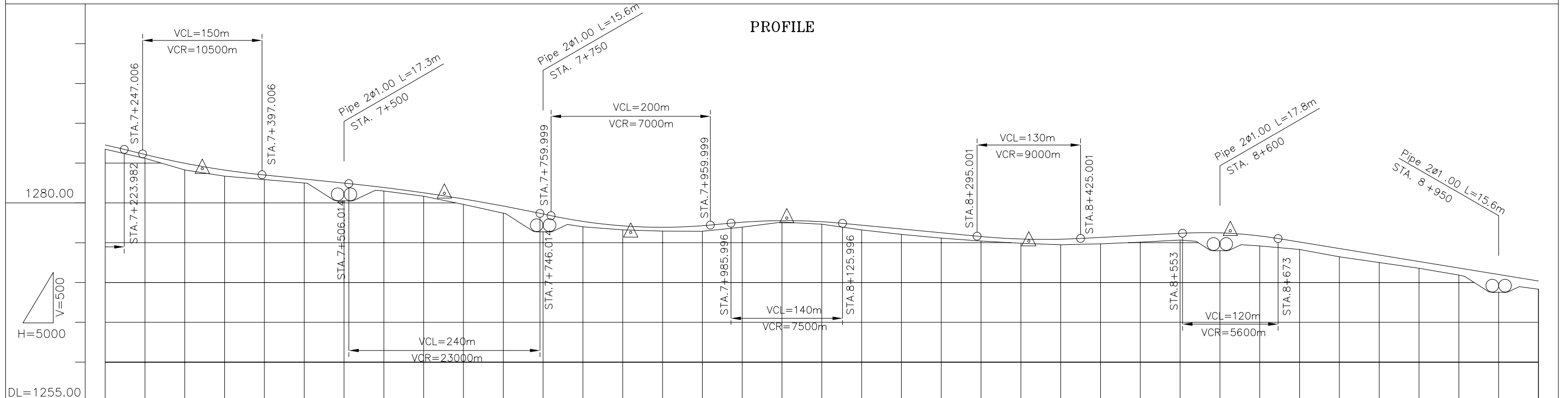
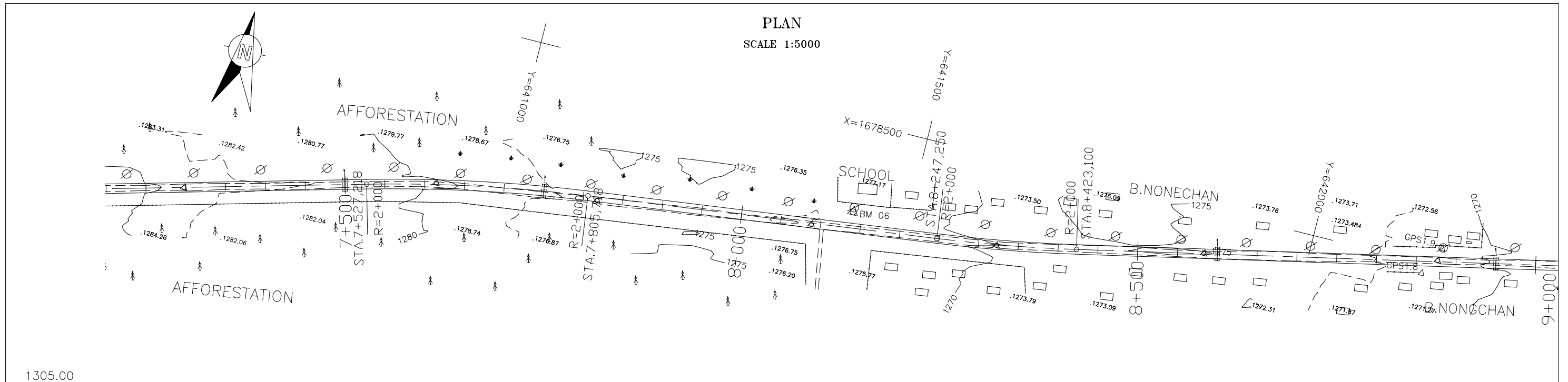
THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.16A PLAN & PROFILE
STA. 3+600.000 TO 5+400.000

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R16-PP-003



VERTICAL GRADIENT	$i = -2.403\%$ $i = -0.370\%$ $i = 0.096\%$ $i = -0.948\%$ $i = -2.127\%$ $i = -0.732\%$																																																																																		
PROPOSAL HEIGHT	-1305.28	-1307.199	-1303.83	-1306.032	-1303.43	-1304.830	-1303.07	-1303.629	-1302.00	-1302.427	-1300.38	-1301.226	-1298.90	-1300.037	-1297.76	-1299.022	1296.60	1298.283	1296.56	1298.227	1297.653	1296.44	1297.300	1296.44	1297.107	1296.39	1296.922	1296.20	1296.737	1295.73	1296.551	1295.56	1296.366	1295.44	1296.181	1295.50	1296.028	1295.46	1296.046	1295.28	1296.011	1295.32	1296.059	1295.50	1296.107	1295.77	1296.067	1295.60	1296.042	1295.22	1295.811	1294.47	1295.364	1294.15	1294.890	1293.82	1294.371	1293.31	1294.037	1292.85	1293.608	1291.80	1292.596	1290.76	1291.595	1290.12	1290.784	1289.62	1290.166	1289.17	1289.738	1288.81	1289.371	1288.40	1289.005	1288.00	1288.639	1287.34	1288.119	1287.16	1287.939	1286.71	1287.240
GROUND HEIGHT	-1305.28	-1307.199	-1303.83	-1306.032	-1303.43	-1304.830	-1303.07	-1303.629	-1302.00	-1302.427	-1300.38	-1301.226	-1298.90	-1300.037	-1297.76	-1299.022	1296.60	1298.283	1296.56	1298.227	1297.653	1296.44	1297.300	1296.44	1297.107	1296.39	1296.922	1296.20	1296.737	1295.73	1296.551	1295.56	1296.366	1295.44	1296.181	1295.50	1296.028	1295.46	1296.046	1295.28	1296.011	1295.32	1296.059	1295.50	1296.107	1295.77	1296.067	1295.60	1296.042	1295.22	1295.811	1294.47	1295.364	1294.15	1294.890	1293.82	1294.371	1293.31	1294.037	1292.85	1293.608	1291.80	1292.596	1290.76	1291.595	1290.12	1290.784	1289.62	1290.166	1289.17	1289.738	1288.81	1289.371	1288.40	1289.005	1288.00	1288.639	1287.34	1288.119	1287.16	1287.939	1286.71	1287.240
STATION	5+400	5+450	5+500	5+550	5+600	5+650	5+700	5+750	5+798	5+800	5+850	5+900	5+950	6+000	6+050	6+100	6+150	6+200	6+250	6+257	6+300	6+350	6+400	6+450	6+465	6+500	6+550	6+600	6+650	6+676	6+700	6+750	6+800	6+850	6+900	6+950	7+000	7+050	7+100	7+150	7+164	7+200																																									
CURVATURE BAND	50		R=∞										R=50000										R=∞																																																												

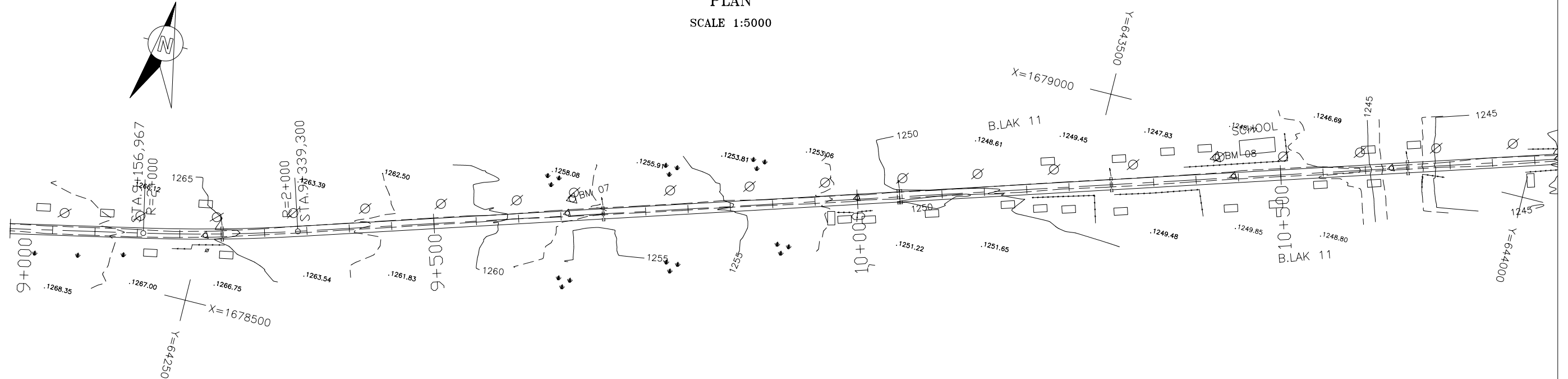
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED			THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 5+400.000 TO 7+200.000	DESIGNED BY CHECKED BY APPROVED BY
		No.	REVISION	DATE	DWG. NO.
					R16-PP-004



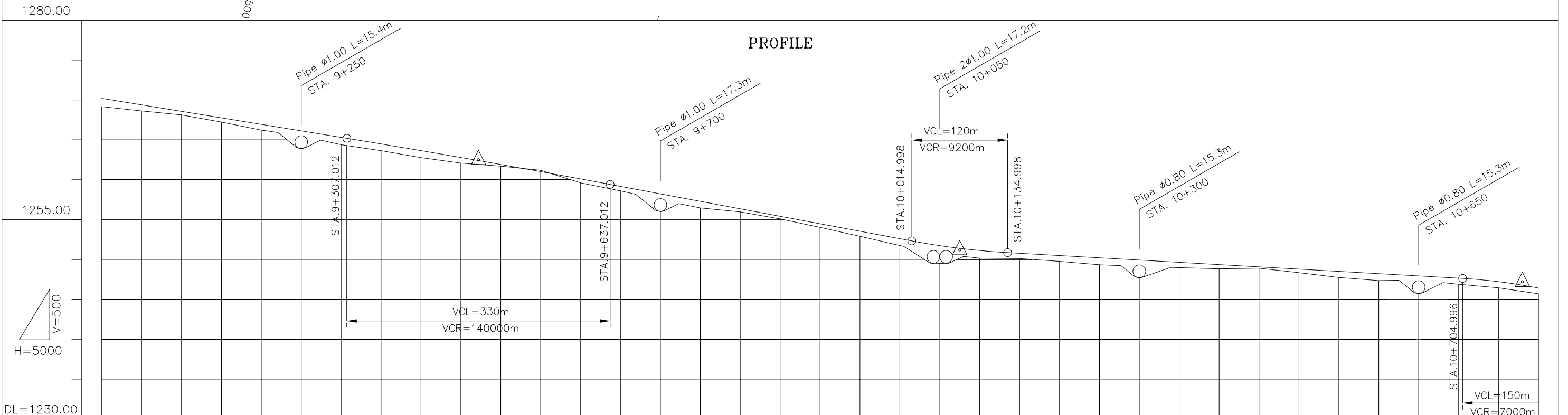
VERTICAL GRADIENT	$i = -2.468\%$		$i = -1.020\%$		$i = -2.094\%$		$i = 0.918\%$		$i = -0.954\%$		$i = 0.514\%$																																																				
PROPOSAL HEIGHT	1287.240	1286.048	1284.949	1284.270	1281.902	1281.237	1280.877	1276.270	1277.104	1277.543	1277.741	1278.070	1275.436	1275.411	1275.632	1275.889	1276.146	1276.206	1276.177	1276.470	1275.820	1274.12	1275.052	1274.237	1273.422	1271.76	1272.607	1270.91	1271.792	1269.80	1270.978	1270.163																															
GROUND HEIGHT	1286.71	1285.57	1284.11	1284.571	1283.32	1282.90	1282.965	1281.90	1281.46	1280.80	1280.27	1279.78	1278.68	1277.72	1276.97	1276.647	1276.59	1277.889	1276.55	1277.052	1276.43	1276.908	1276.40	1276.92	1277.173	1276.58	1276.01	1276.696	1275.55	1276.219	1275.18	1275.744	1274.91	1275.436	1274.86	1275.438	1274.71	1275.411	1274.82	1275.632	1275.04	1275.889	1275.31	1276.146	1274.91	1276.206	1274.81	1276.177	1274.56	1275.820	1274.12	1275.052	1273.20	1274.237	1272.48	1273.422	1271.76	1272.607	1270.91	1271.792	1269.80	1270.978	1270.163
STATION	7+200	7+250	7+300	7+322	7+350	7+400	7+450	7+500	7+550	7+600	7+626	7+650	7+700	7+750	7+800	7+850	7+860	7+900	7+950	8+000	8+050	8+056	8+100	8+150	8+200	8+250	8+300	8+350	8+360	8+400	8+450	8+500	8+550	8+600	8+613	8+650	8+700	8+750	8+800	8+850	8+900	8+950	9+000																				
CURVATURE BAND	R=2000												R=1												R=2000												R=1																										

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R.	DESIGNED BY	
						CHECKED BY	
RT.16A PLAN & PROFILE						APPROVED BY	
STA. 7+200.000 TO 9+000.000						DWG. NO.	R16-PP-005

PLAN
SCALE 1:5000

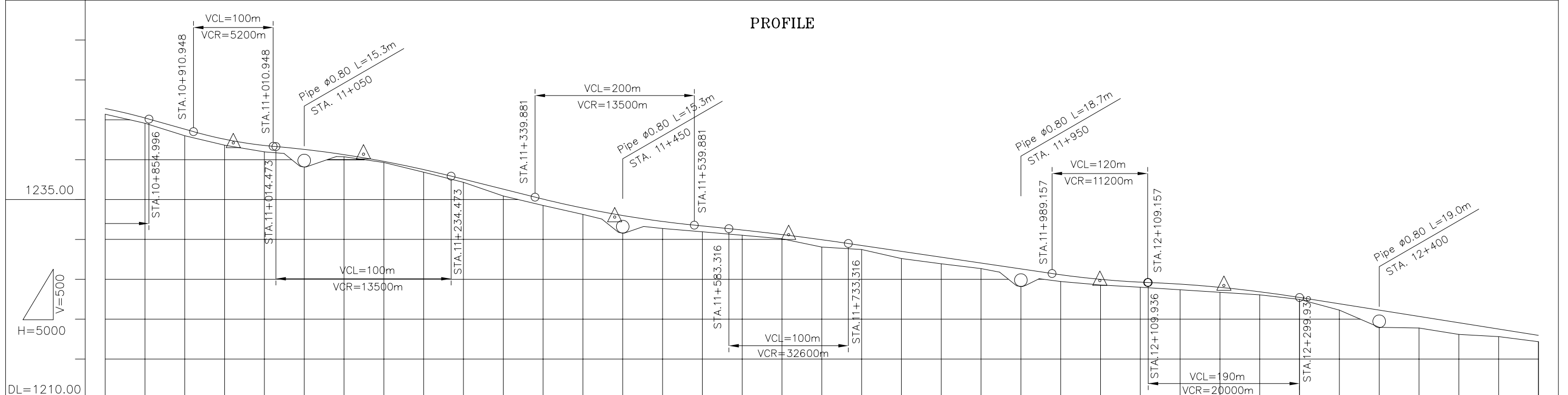
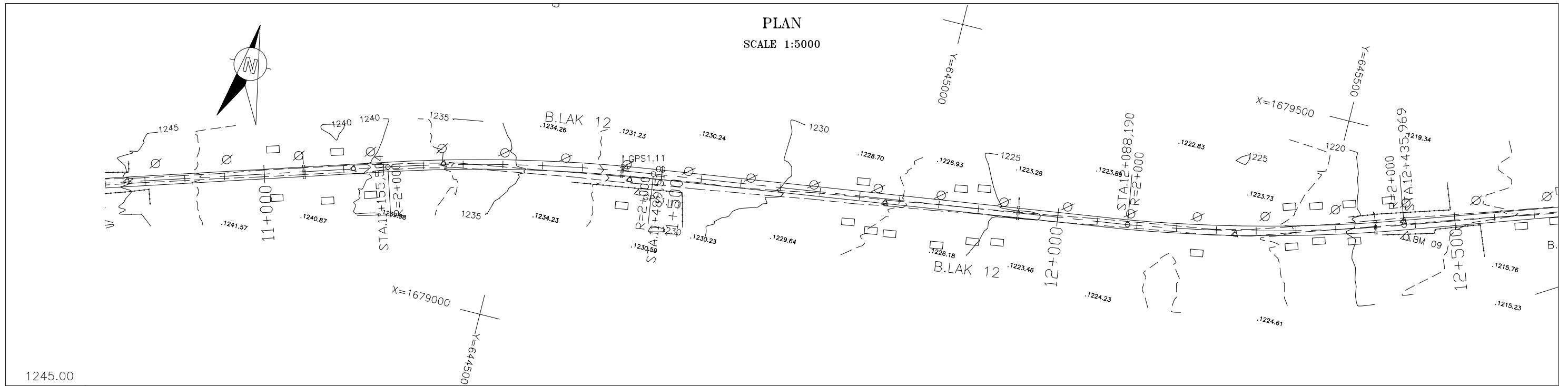


PROFILE



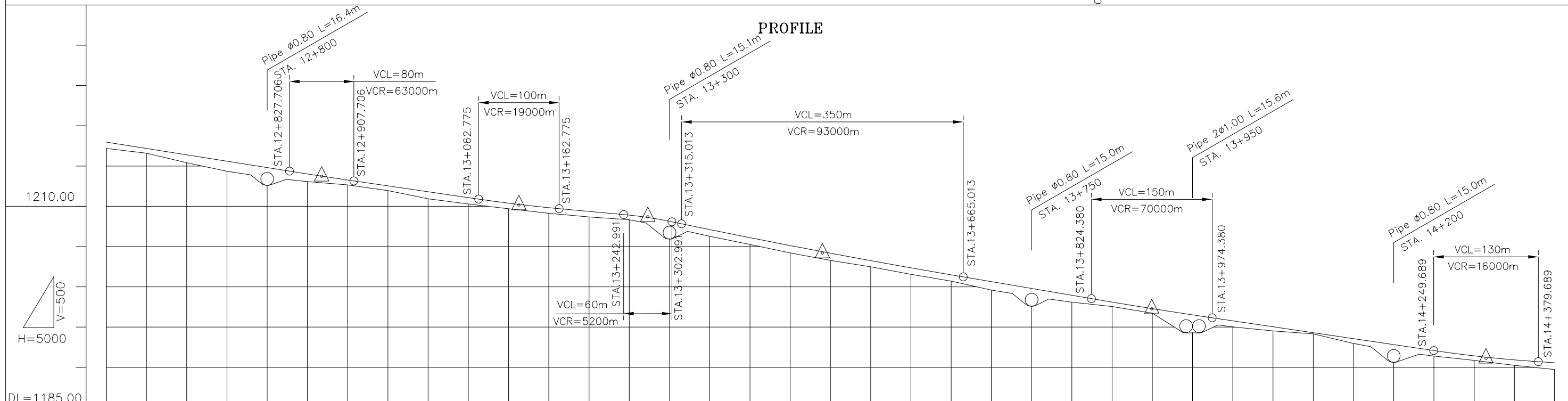
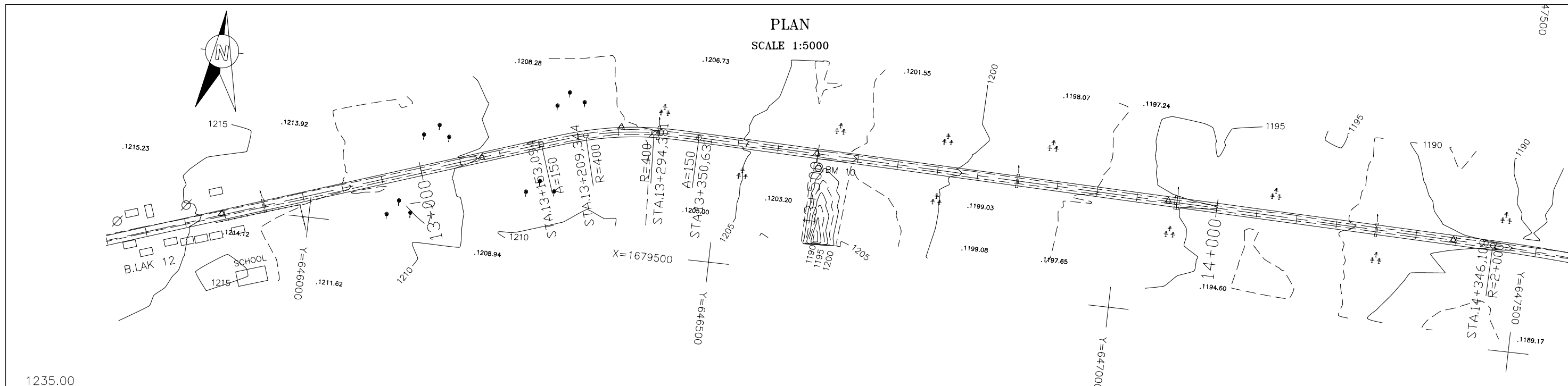
VERTICAL GRADIENT	i=-1.630%		i=-1.874%		i=-0.567%	
PROPOSAL HEIGHT	1270.163	1269.348	1268.533	1267.718	1266.903	1266.088
GROUND HEIGHT	1269.13	1268.59	1268.09	1267.19	1266.18	1265.46
STATION	9+000	9+050	9+100	9+150	9+200	9+250
CURVATURE BAND	R=2000					
	R=∞					

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		RT.16A	PLAN & PROFILE	CHECKED BY	
		STA. 9+000.000 TO 10+800.000	APPROVED BY		
No.	REVISION	DATE	DWG. NO.	R16-PP-006	



VERTICAL GRADIENT	PROPOSAL HEIGHT	GROUND HEIGHT	STATION	CURVATURE BAND
$i = -2.814\%$	1247.170	1245.96	10+780	R=2000
	1246.778	1245.67	10+800	
	1245.198	1244.54	10+850	R=2000
	1243.793	1242.97	10+900	
	1242.078	1241.79	10+950	R=2000
	1242.350	1241.60	10+961	
$i = -0.868\%$	1241.751	1240.95	11+000	R=2000
	1241.258	1240.53	11+050	
	1240.658	1240.33	11+100	R=2000
	1240.239	1239.98	11+124	
	1239.755	1239.62	11+150	R=2000
	1238.726	1238.40	11+200	
	1237.520	1237.13	11+250	R=2000
	1236.270	1235.42	11+300	
$i = -2.500\%$	1235.024	1234.23	11+350	R=2000
	1233.905	1233.11	11+400	
	1232.773	1232.13	11+440	R=2000
	1232.971	1231.89	11+450	
$i = -1.011\%$	1232.225	1231.34	11+500	R=2000
	1231.150	1230.49	11+600	
	1230.565	1230.05	11+650	R=2000
	1229.935	1229.87	11+658	
	1229.216	1228.70	11+750	R=2000
	1228.481	1227.57	11+800	
	1227.745	1226.92	11+850	R=2000
	1227.009	1226.32	11+900	
	1226.273	1225.35	11+950	R=2000
	1225.543	1224.69	12+000	
	1224.815	1224.26	12+050	R=2000
	1224.197	1223.97	12+100	
	1223.465	1223.66	12+150	R=2000
	1222.692	1222.45	12+200	
	1221.900	1221.10	12+350	R=2000
	1221.108	1218.95	12+400	
	1220.317	1218.87	12+450	R=2000
	1219.525	1218.06	12+500	
	1218.733	1217.78	12+550	R=2000
	1217.942	1217.15	12+600	

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					RT.16A	PLAN & PROFILE
					STA. 10+800.000 TO 12+600.000	APPROVED BY
						DWG. NO.
						R16-PP-007



VERTICAL GRADIENT	$i = -1.455\%$ $i = -0.915\%$ $i = -2.074\%$ $i = -1.694\%$ $i = -1.476\%$ $i = 0$																																									
PROPOSAL HEIGHT	1217.942	1217.150	1216.358	1215.567	1214.775	1213.987	1213.195	1212.403	1211.611	1210.819	1210.027	1209.235	1208.443	1207.651	1206.859	1206.067	1205.275	1204.483	1203.691	1202.899	1202.107	1201.315	1200.523	1199.731	1198.939	1198.147	1197.355	1196.563	1195.771	1194.979	1194.187	1193.395	1192.603	1191.811	1191.019	1190.227	1189.435	1188.643				
GROUND HEIGHT	1217.15	1216.56	1215.37	1214.32	1213.57	1213.04	1212.89	1212.63	1212.505	1211.777	1211.050	1210.359	1210.253	1209.800	1209.338	1208.876	1208.612	1208.109	1207.080	1206.076	1204.18	1203.225	1202.330	1201.461	1200.613	1199.766	1198.919	1198.076	1197.266	1196.492	1195.750	1195.012	1194.274	1193.536	1192.798	1192.059	1191.402	1190.666	1190.23	1189.71		
STATION	12+600	12+650	12+700	12+750	12+800	12+850	12+868	12+900	12+950	13+000	13+050	13+100	13+113	13+150	13+200	13+250	13+273	13+300	13+350	13+400	13+450	13+490	13+500	13+550	13+600	13+650	13+700	13+750	13+800	13+850	13+900	13+950	14+000	14+050	14+100	14+150	14+200	14+250	14+300	14+315	14+350	14+400
CURVATURE BAND	R=i				A=150												R=400				A=150				R=i																	

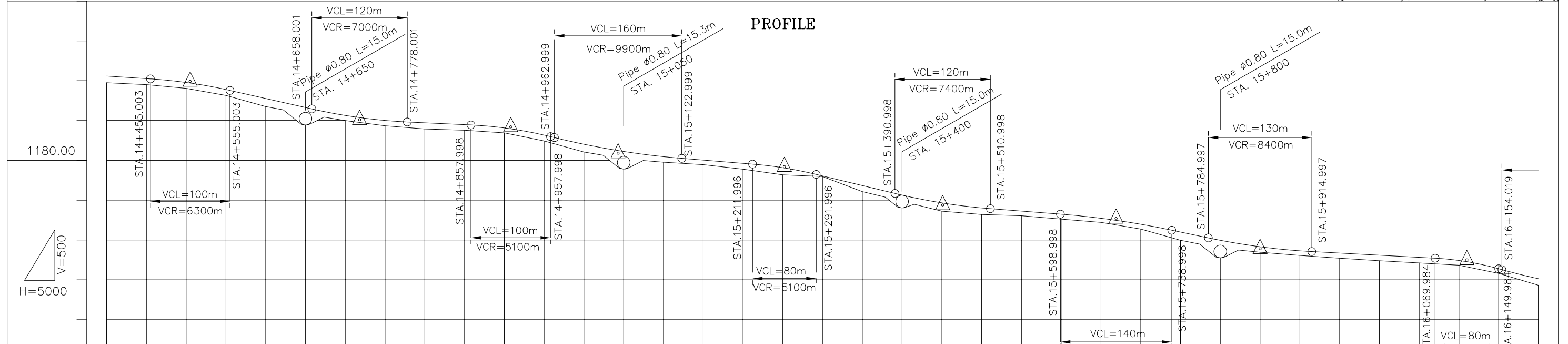
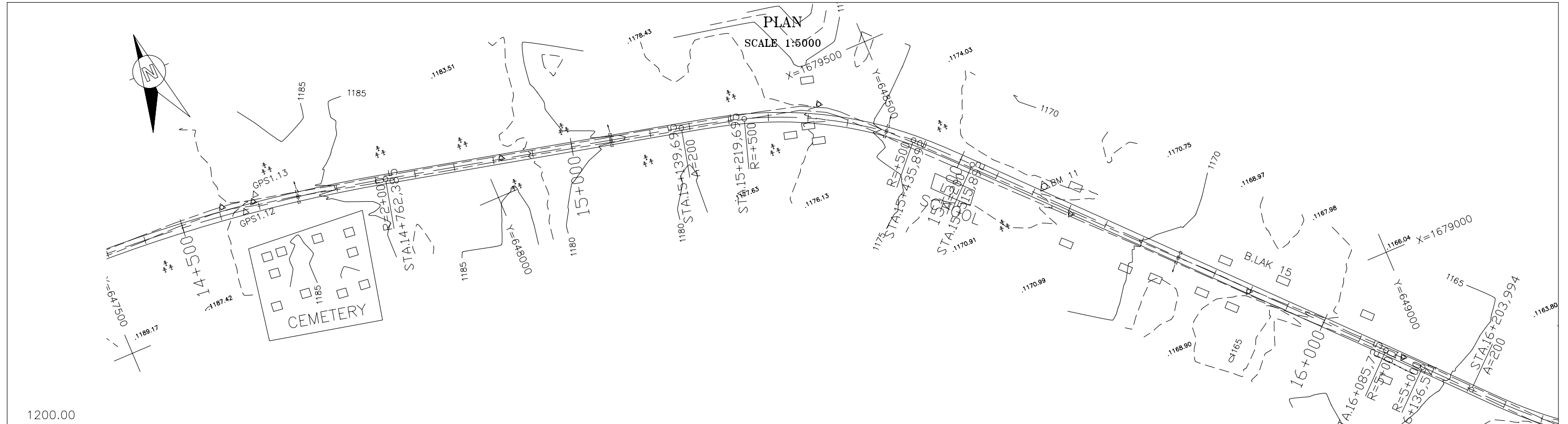
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

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

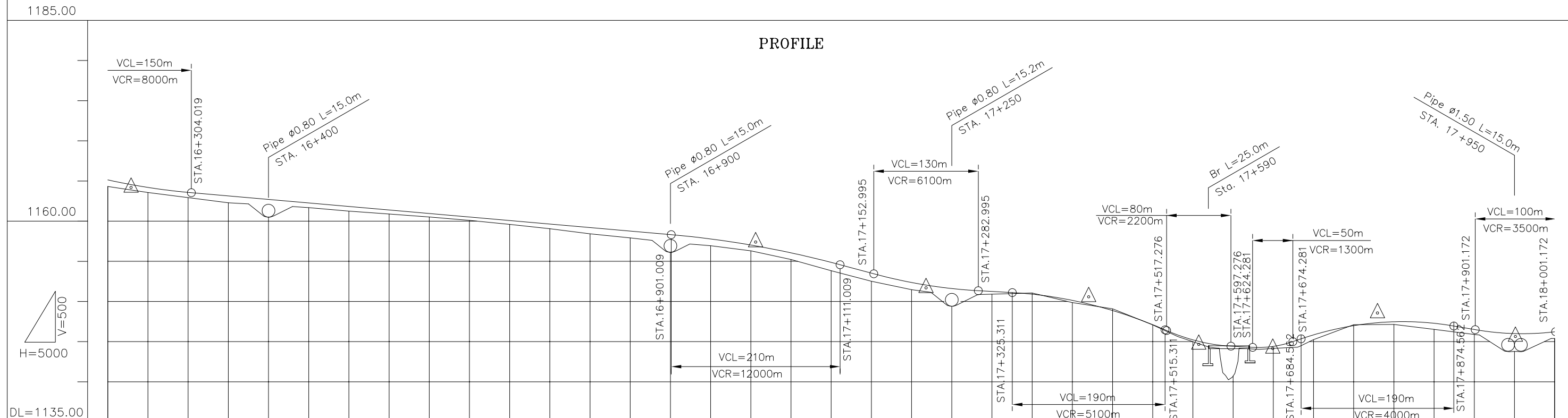
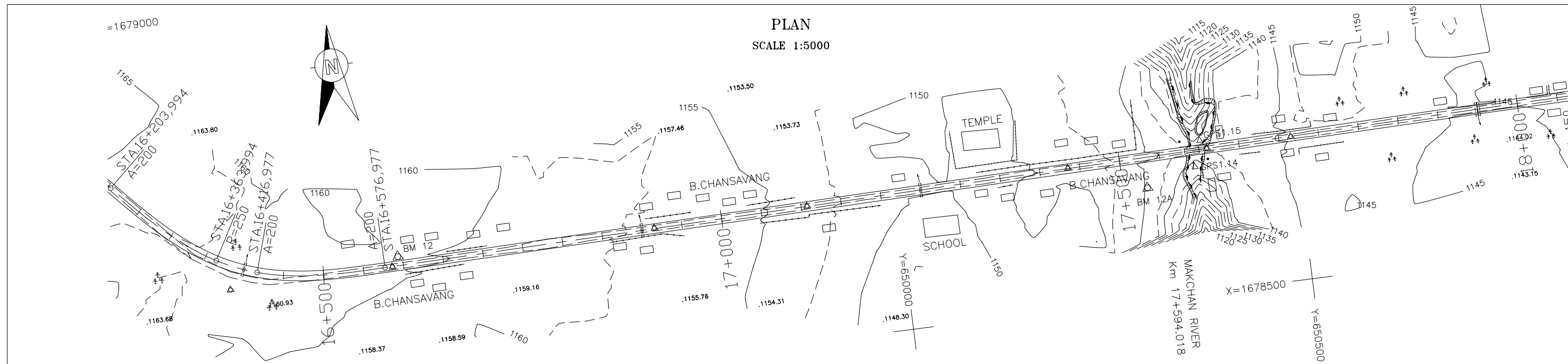
No.	REVISION	DATE

THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R.
RT.16A
PLAN & PROFILE
STA. 12+600.000 TO 14+400.000

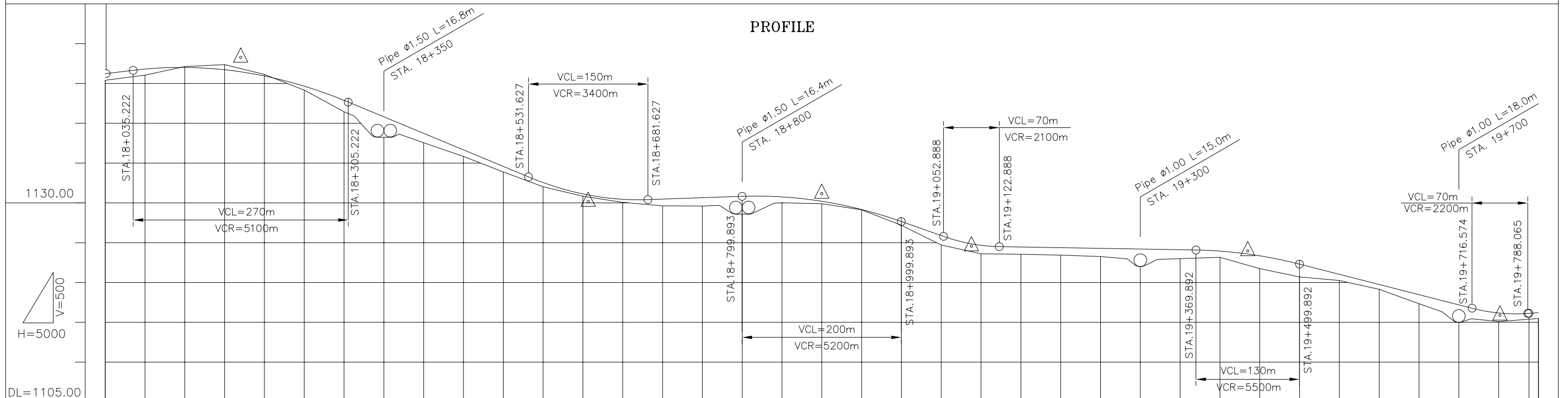
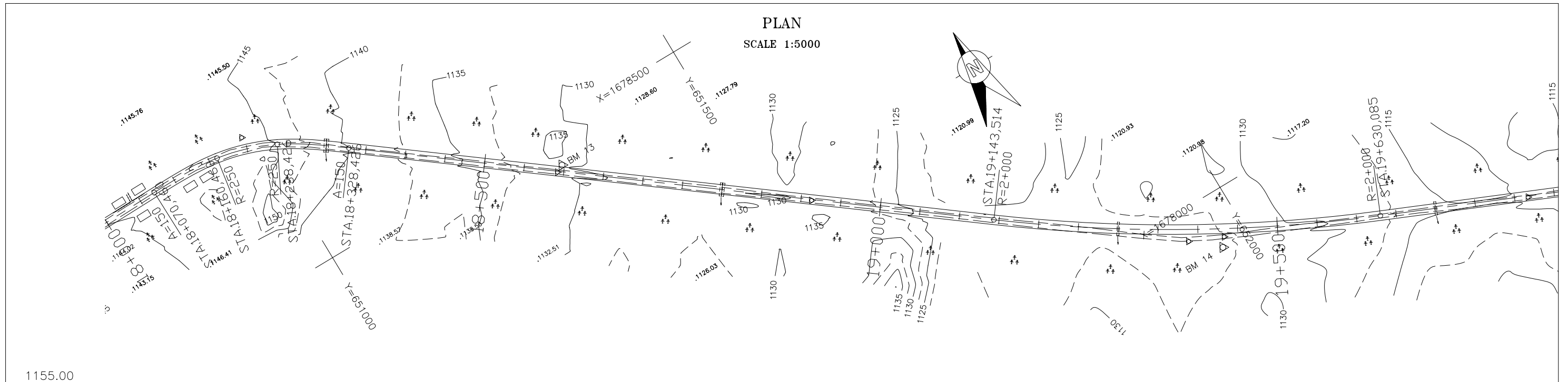
DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R16-PP-008



VERTICAL GRADIENT	$i = -0.649\%$	$i = -2.254\%$	$i = -0.474\%$	$i = -2.444\%$	$i = -0.813\%$	$i = -2.412\%$	$i = -0.780\%$	$i = -2.099\%$	$i = -0.538\%$	$i = -2.773\%$																																			
PROPOSAL HEIGHT	1190.551	1190.227	1189.740	1189.698	1188.854	1187.729	1186.602	1185.606	1185.366	1184.977	1184.682	1184.445	1184.034	1183.953	1184.170	1183.137	1181.991	1181.225	1180.870	1180.000	1179.593	1179.042	1179.039	1178.012	1176.806	1175.606	1174.631	1174.644	1173.996	1173.598	1173.208	1172.696	1172.468	1171.947	1170.969	1169.933	1168.614	1168.332	1168.062	1167.793	1167.598	1167.276	1166.361	1165.108	
GROUND HEIGHT	1189.71	1189.47	1189.00	1189.91	1188.854	1187.729	1186.602	1185.606	1185.366	1184.977	1184.682	1184.445	1184.034	1183.953	1184.170	1183.137	1181.991	1181.225	1180.870	1180.000	1179.593	1179.042	1179.039	1178.012	1176.806	1175.606	1174.631	1174.644	1173.996	1173.598	1173.208	1172.696	1172.468	1171.947	1170.969	1169.933	1168.614	1168.332	1168.062	1167.793	1167.598	1167.276	1166.361	1165.108	
STATION	14+400	14+450	14+500	14+505	14+550	14+600	14+650	14+700	14+718	14+750	14+800	14+850	14+900	14+908	14+950	15+000	15+043	15+050	15+100	15+150	15+200	15+250	15+252	15+300	15+350	15+400	15+450	15+451	15+500	15+550	15+600	15+650	15+669	15+700	15+750	15+800	15+850	15+900	15+950	16+000	16+050	16+100	16+110	16+150	16+200
CURVATURE BAND	R=2000			R=2000			R=2000			R=2000			R=2000			A=200			R=500			A=200			R=500			A=200			R=500			R=5000			R=5000								

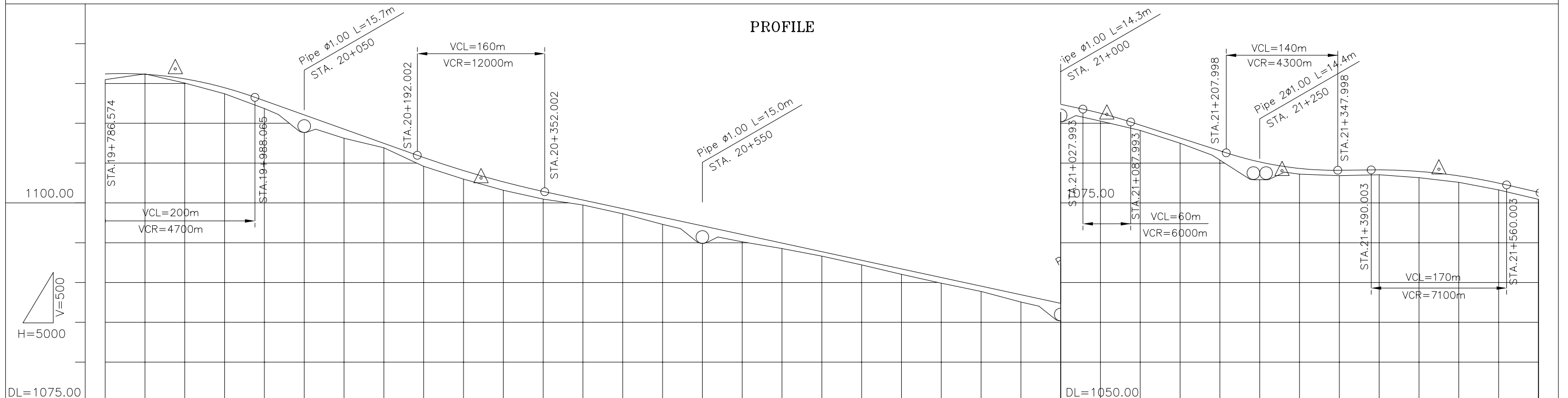
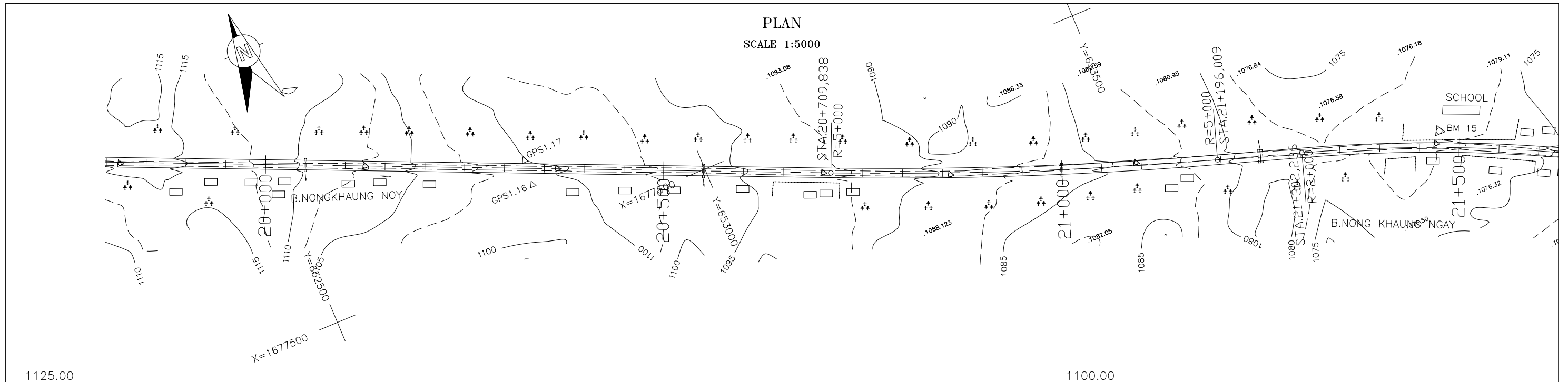


VERTICAL GRADIENT	PROPOSAL HEIGHT	GROUND HEIGHT	STATION	CURVATURE BAND
$i = -0.875\%$	1165.108	1164.29	16+200	A=200
	1164.555	1163.85	16+229	
	1164.171	1163.54	16+250	
	1163.550	1162.91	16+300	R=250
	1163.111	1162.26	16+350	
	1162.673	1161.98	16+400	A=200
	1162.236	1161.66	16+450	
	1161.798	1161.22	16+500	
	1161.361	1160.86	16+550	
	1160.923	1160.49	16+600	
	1160.486	1160.06	16+650	
	1160.048	1159.57	16+700	
	1159.610	1159.03	16+750	
	1159.173	1158.39	16+800	
	1158.735	1157.89	16+850	
	1158.298	1157.33	16+900	
	1157.756	1156.91	16+950	
	1156.999	1156.14	17+000	
	1156.323	1155.20	17+050	
	1155.026	1154.80	17+100	
	1154.837	1154.49	17+150	
	1153.498	1152.335	17+200	
	1152.335	1152.046	17+218	
	1151.670	1151.583	17+250	
	1151.217	1150.89	17+300	
	1150.880	1150.110	17+350	
	1150.110	1149.685	17+400	
	1149.552	1148.844	17+450	
	1148.844	1147.081	17+500	
	1147.081	1145.194	17+550	
	1144.626	1144.053	17+557	
	1144.394	1144.126	17+600	
	1144.126	1145.812	17+650	
	1145.812	1146.964	17+700	
	1146.964	1147.359	17+750	
	1147.359	1147.445	17+779	
	1147.445	1146.50	17+800	
	1146.50	1145.87	17+850	
	1146.483	1145.34	17+900	
	1145.34	1145.002	17+950	
	1145.002	1145.37	17+951	
	1145.37	1146.197	18+000	



VERTICAL GRADIENT	$i = 1.202\%$ $i = -4.152\%$ $i = 0.346\%$ $i = -3.511\%$ $i = -0.173\%$ $i = -2.555\%$ $i = 0$																																											
PROPOSAL HEIGHT	-1145.197	-1146.776	-1146.982	-1146.693	-1146.464	-1145.908	-1144.628	-1142.851	-1140.778	-1138.703	-1136.627	-1134.551	-1132.526	-1131.100	-1130.997	-1130.124	-1130.424	-1130.447	-1130.620	-1130.793	-1130.724	-1129.86	-1129.140	-1127.625	-1125.869	-1124.860	-1124.643	-1124.432	-1124.345	-1124.259	-1124.172	-1124.086	-1123.916	-1123.939	-1123.581	-1123.325	-1122.275	-1120.998	-1119.720	-1118.442	-1117.165	-1116.160	-1115.847	-1116.169
GROUND HEIGHT	-1145.37	-1146.01	-1147.09	-1147.34	-1146.84	-1146.10	-1144.12	-1141.43	-1139.27	-1137.53	-1135.80	-1133.86	-1132.00	-1130.81	-1130.70	-1130.04	-1129.58	-1129.60	-1129.58	-1129.75	-1129.98	-1129.86	-1129.10	-1127.16	-1124.68	-1123.84	-1123.58	-1123.52	-1123.41	-1123.23	-1122.80	-1122.97	-1123.14	-1123.14	-1122.14	-1121.72	-1120.67	-1120.23	-1119.12	-1118.30	-1117.58	-1116.07	-1115.07	-1115.45
STATION	-18+000	-18+050	-18+100	-18+150	-18+170	-18+200	-18+250	-18+300	-18+350	-18+400	-18+450	-18+500	-18+550	-18+600	-18+607	-18+650	-18+700	-18+750	-18+800	-18+850	-18+900	-18+950	-19+000	-19+050	-19+088	-19+100	-19+150	-19+200	-19+250	-19+300	-19+350	-19+400	-19+435	-19+450	-19+500	-19+550	-19+600	-19+650	-19+700	-19+746	-19+750	-19+800		
CURVATURE BAND	A=150			R=250			A=150			R=i										R=2000																								

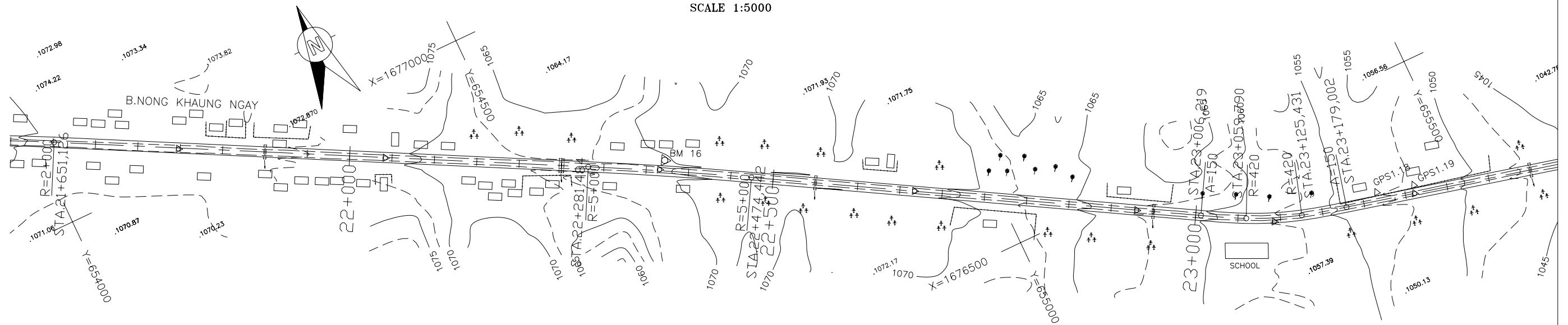
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED			THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 18+000.000 TO 19+800.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO.		R16-PP-011
		No.	REVISION	DATE			



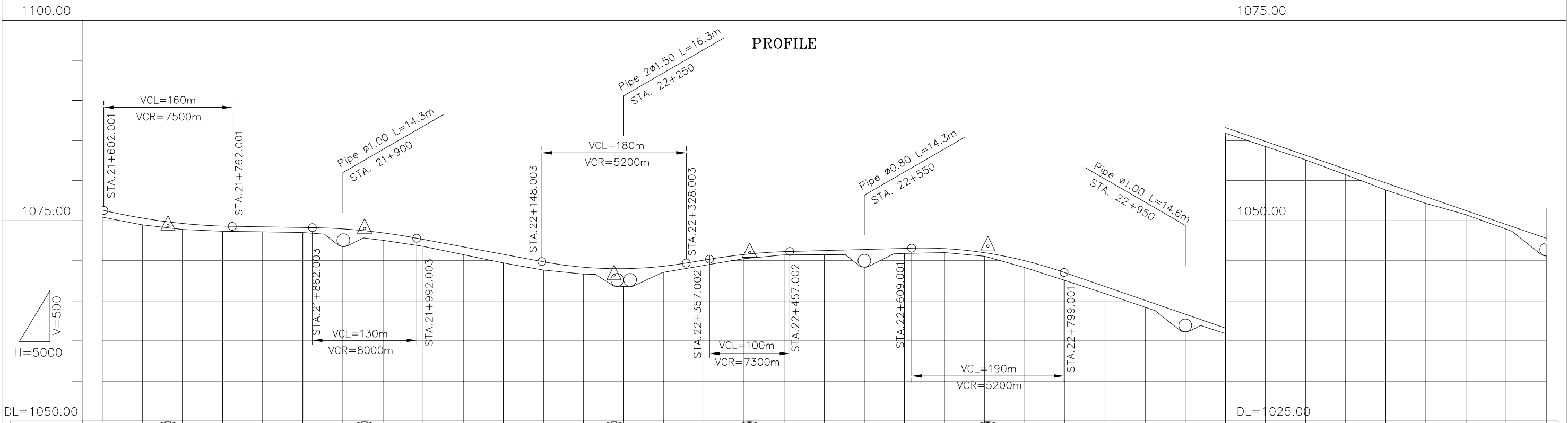
VERTICAL GRADIENT	$i = 0.697\%$ $i = -3.568\%$ $i = -2.163\%$ $i = -3.227\%$ $i = 0.101\%$ $i = -2.319\%$																																																																																																													
PROPOSAL HEIGHT	+1116.169	+1116.124	+1115.761	+1115.545	+1114.434	+1112.804	+1111.020	+1109.236	+1107.453	+1105.672	+1104.033	+1103.410	+1102.613	+1101.413	+1100.332	+1099.250	+1098.169	+1097.087	+1096.006	+1094.924	+1093.843	+1092.762	+1091.680	+1090.599	+1089.517	+1088.436	+1087.354	+1086.273	+1085.191	+1084.109	+1083.027	+1081.945	+1080.863	+1079.781	+1078.699	+1077.617	+1076.535	+1075.453	+1074.371	+1073.289	+1072.207	+1071.125	+1070.043	+1068.961	+1067.879	+1066.797	+1065.715	+1064.633	+1063.551	+1062.469	+1061.387	+1060.305	+1059.223	+1058.141	+1057.059	+1055.977	+1054.895	+1053.813	+1052.731	+1051.649	+1050.567	+1049.485	+1048.403	+1047.321	+1046.239	+1045.157	+1044.075	+1042.993	+1041.911	+1040.829	+1039.747	+1038.665	+1037.583	+1036.501	+1035.419	+1034.337	+1033.255	+1032.173	+1031.091	+1030.009	+1028.927	+1027.845	+1026.763	+1025.681	+1024.599	+1023.517	+1022.435	+1021.353	+1020.271	+1019.189	+1018.107	+1017.025	+1015.943	+1014.861	+1013.779	+1012.697	+1011.615	+1010.533	+1009.451	+1008.369	+1007.287	+1006.205	+1005.123	+1004.041	+1002.959	+1001.877	+1000.795	+1000.000		
GROUND HEIGHT	+1115.45	+1116.17	+1115.29	+1115.02	+1113.68	+1111.82	+1109.69	+1108.09	+1106.89	+1104.56	+1102.95	+1102.34	+1101.56	+1100.44	+1099.70	+1098.60	+1097.27	+1096.07	+1095.09	+1094.23	+1093.29	+1092.19	+1091.00	+1089.88	+1088.85	+1087.52	+1086.36	+1085.25	+1084.07	+1082.47	+1080.60	+1079.24	+1078.87	+1078.58	+1078.39	+1078.50	+1078.14	+1077.84	+1077.56	+1076.60	+1075.42	+1074.32	+1073.22	+1072.12	+1071.02	+1069.92	+1068.82	+1067.72	+1066.62	+1065.52	+1064.42	+1063.32	+1062.22	+1061.12	+1060.02	+1058.92	+1057.82	+1056.72	+1055.62	+1054.52	+1053.42	+1052.32	+1051.22	+1050.12	+1049.02	+1047.92	+1046.82	+1045.72	+1044.62	+1043.52	+1042.42	+1041.32	+1040.22	+1039.12	+1038.02	+1036.92	+1035.82	+1034.72	+1033.62	+1032.52	+1031.42	+1030.32	+1029.22	+1028.12	+1027.02	+1025.92	+1024.82	+1023.72	+1022.62	+1021.52	+1020.42	+1019.32	+1018.22	+1017.12	+1016.02	+1014.92	+1013.82	+1012.72	+1011.62	+1010.52	+1009.42	+1008.32	+1007.22	+1006.12	+1005.02	+1003.92	+1002.82	+1001.72	+1000.62	+1000.000
STATION	+19+800	+19+850	+19+888	+19+900	+19+950	+20+000	+20+050	+20+100	+20+150	+20+200	+20+250	+20+272	+20+300	+20+350	+20+400	+20+450	+20+500	+20+550	+20+600	+20+650	+20+700	+20+750	+20+800	+20+850	+20+900	+20+950	+21+000	+21+058	+21+100	+21+150	+21+200	+21+250	+21+278	+21+300	+21+350	+21+400	+21+450	+21+475	+21+500	+21+550	+21+600																																																																					
CURVATURE BAND	R=i										R=5000										R=i										R=2000																																																																															

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 19+800.000 TO 21+600.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO. R16-PP-012
No.	REVISION	DATE	

PLAN
SCALE 1:5000



PROFILE



VERTICAL GRADIENT	2.319%		$i = -0.163\%$		$i = -1.865\%$		$i = 1.657\%$		$i = 0.269\%$		$i = -3.451\%$																															
PROPOSAL HEIGHT	+1076.301	+1075.297	+1074.400	+1074.630	+1074.299	+1074.207	+1074.126	+1073.950	+1073.752	+1073.456	+1072.639	+1071.706	+1071.774	+1069.842	+1069.173	+1068.200	+1070.756	+1070.856	+1071.112	+1071.251	+1071.385	+1071.520	+1071.490	+1070.870	+1070.945	+1071.800	+1069.978	+1068.487	+1066.762	+1065.036	+1063.311	+1061.585	+1059.860	+1058.135	+1056.409	+1054.684	+1052.958	+1051.233	+1049.508	+1047.782		
GROUND HEIGHT	+1075.42	+1074.46	+1074.08	+1074.630	+1073.66	+1073.59	+1074.207	+1073.50	+1073.13	+1072.80	+1072.53	+1071.78	+1070.74	+1069.70	+1068.82	+1068.31	+1068.21	+1070.24	+1070.30	+1070.71	+1070.73	+1071.385	+1071.520	+1071.490	+1070.54	+1070.870	+1069.14	+1067.52	+1065.88	+1064.18	+1062.53	+1060.89	+1059.23	+1057.57	+1055.70	+1053.80	+1052.14	+1050.72	+1048.93	+1047.04		
STATION	+21+600	+21+650	+21+682	+21+700	+21+750	+21+800	+21+850	+21+900	+21+927	+21+950	+22+000	+22+050	+22+100	+22+150	+22+200	+22+238	+22+250	+22+300	+22+350	+22+400	+22+407	+22+450	+22+500	+22+550	+22+600	+22+650	+22+700	+22+704	+22+750	+22+800	+22+850	+22+900	+22+950	+23+000	+23+050	+23+100	+23+150	+23+200	+23+250	+23+300	+23+350	+23+400
CURVATURE BAND			$R=i$				$R=5000$				$R=i$				$A=150$		$R=420$		$A=150$																							

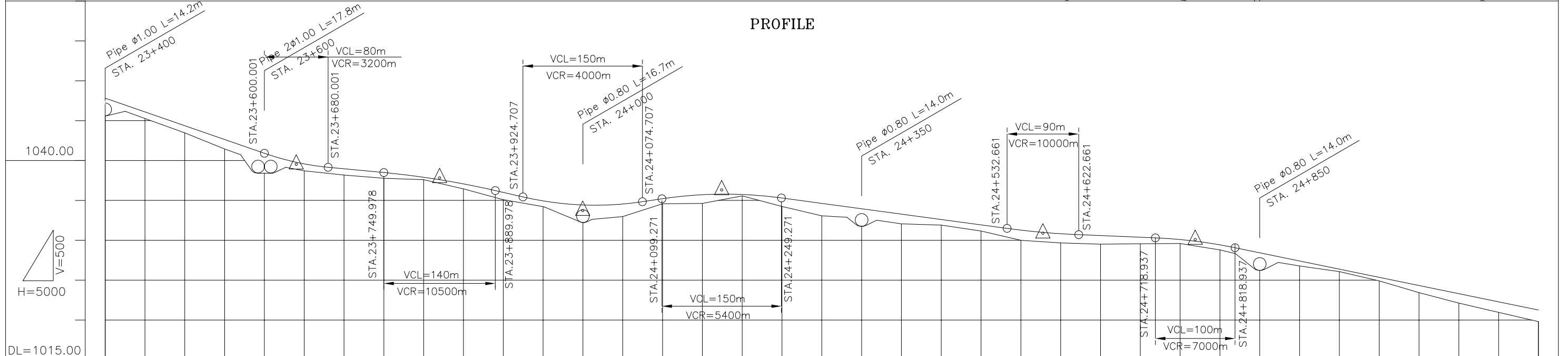
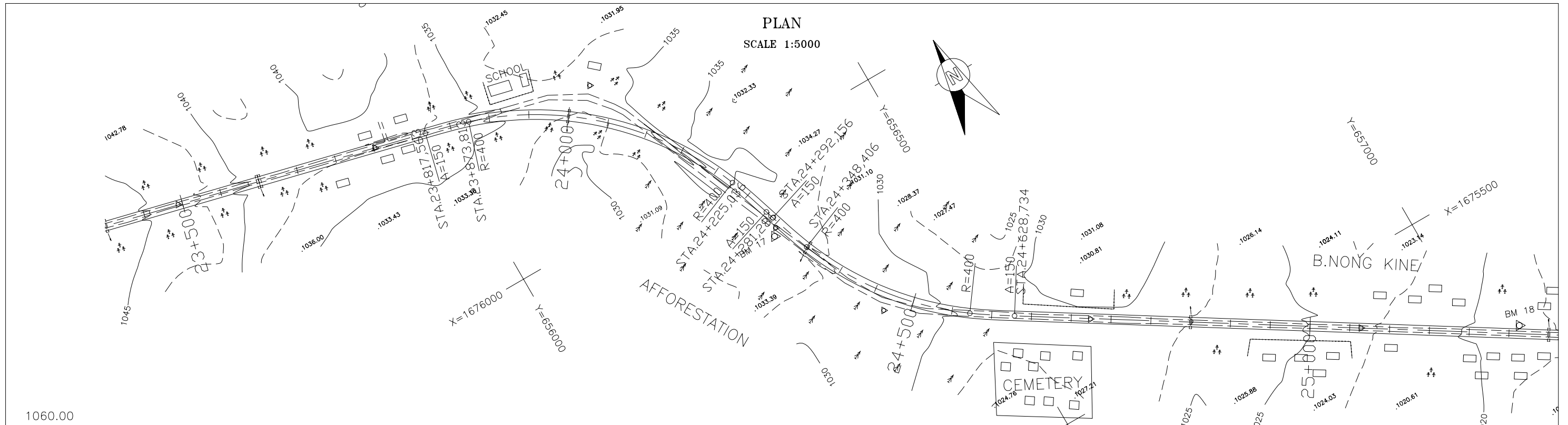
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

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

No.	REVISION	DATE

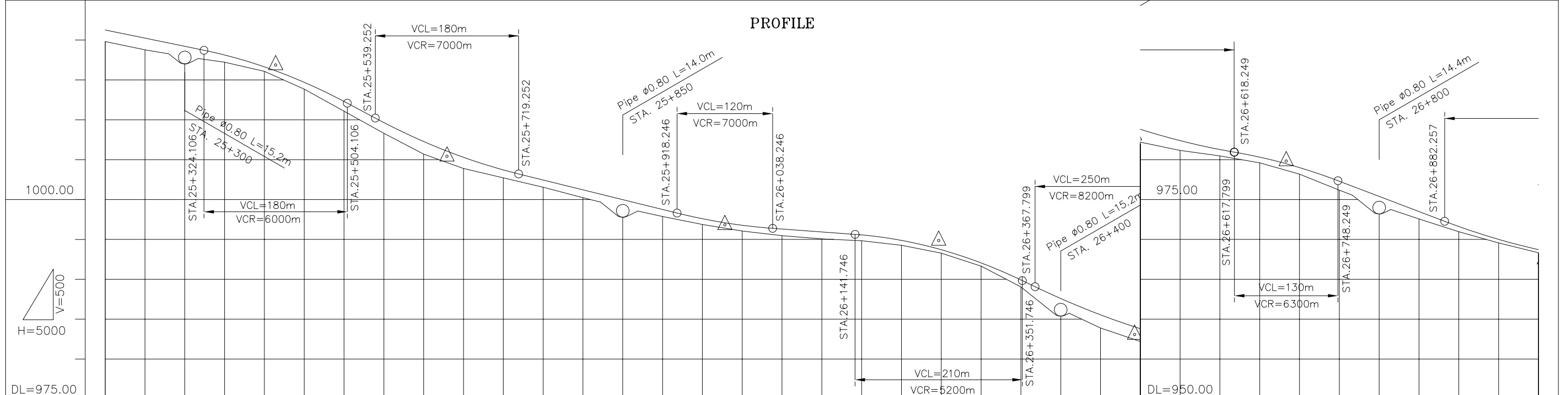
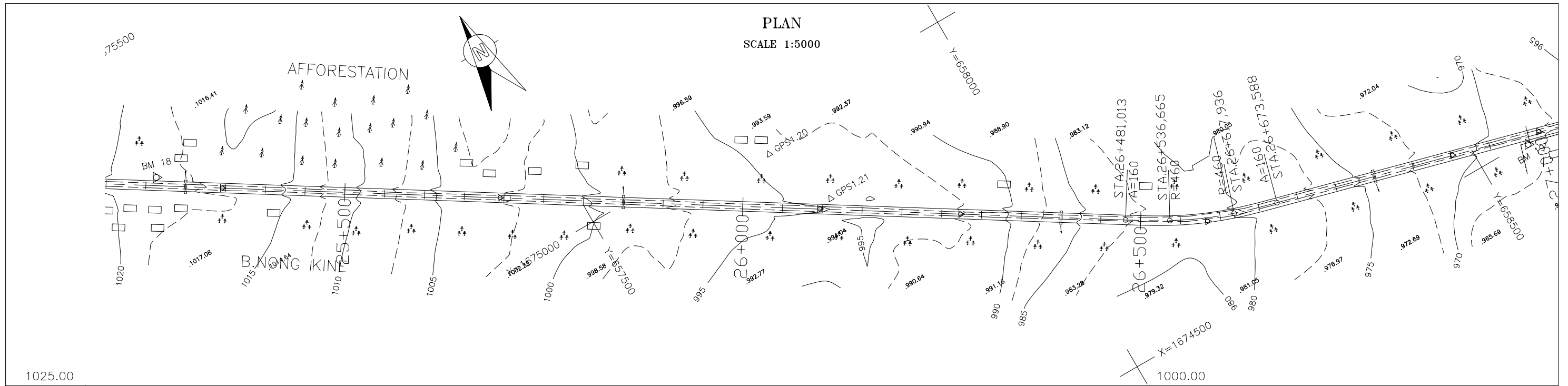
THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.16A PLAN & PROFILE
STA. 21+600.000 TO 23+400.000

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R16-PP-013



VERTICAL GRADIENT	<div style="display: flex; justify-content: space-between;"> $i = -0.944\%$ $i = -2.284\%$ $i = 1.484\%$ $i = -1.345\%$ $i = -0.417\%$ $i = -2.049\%$ </div>																																				
PROPOSAL HEIGHT	+1047.782	+1046.057	+1044.331	+1042.606	+1040.880	+1039.154	+1037.428	+1035.702	+1033.976	+1032.250	+1030.524	+1028.798	+1027.072	+1025.346	+1023.620	+1021.894	+1020.168	+1018.442	+1016.716	+1014.990	+1013.264	+1011.538	+1009.812	+1008.086	+1006.360	+1004.634	+1002.908	+1001.182									
GROUND HEIGHT	+1047.04	+1045.23	+1043.44	+1041.42	+1039.64	+1037.87	+1036.09	+1034.31	+1032.53	+1030.75	+1028.97	+1027.19	+1025.41	+1023.63	+1021.85	+1020.07	+1018.29	+1016.51	+1014.73	+1012.95	+1011.17	+1009.39	+1007.61	+1005.83	+1004.05	+1002.27	+1000.49	+998.71									
STATION	23+400	23+450	23+500	23+550	23+600	23+650	23+700	23+750	23+800	23+850	23+900	23+950	24+000	24+050	24+100	24+150	24+200	24+250	24+300	24+350	24+400	24+450	24+500	24+550	24+600	24+650	24+700	24+750	24+800	24+850	24+900	24+950	25+000	25+050	25+100	25+150	25+200
CURVATURE BAND	R=1		A=150			R=400			A=150			R=400			A=150			R=400			A=150			R=400			A=150			R=400			A=150				

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED			THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 23+400.000 TO 25+200.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO.	
		No.	REVISION	DATE	R16-PP-014	



VERTICAL GRADIENT	i = -5.318%		i = -2.464%		i = -0.731%		i = -4.790%		i = -1.707%		i = -3.796%		i = 0.000%	
PROPOSAL HEIGHT	1021.230	1020.205	1019.180	1018.095	1016.608	1016.135	1014.667	1012.272	1009.624	1007.248	1006.071	1005.269	1003.686	1002.425
GROUND HEIGHT	1019.78	1018.74	1017.90	1017.18	1016.05	1015.41	1014.667	1011.05	1008.28	1005.66	1004.61	1003.87	1002.69	1001.51
STATION	25+200	25+250	25+300	25+350	25+400	25+414	25+450	25+500	25+550	25+600	25+629	25+650	25+700	25+750
CURVATURE BAND	R = i												A=160 R=460 A=160	

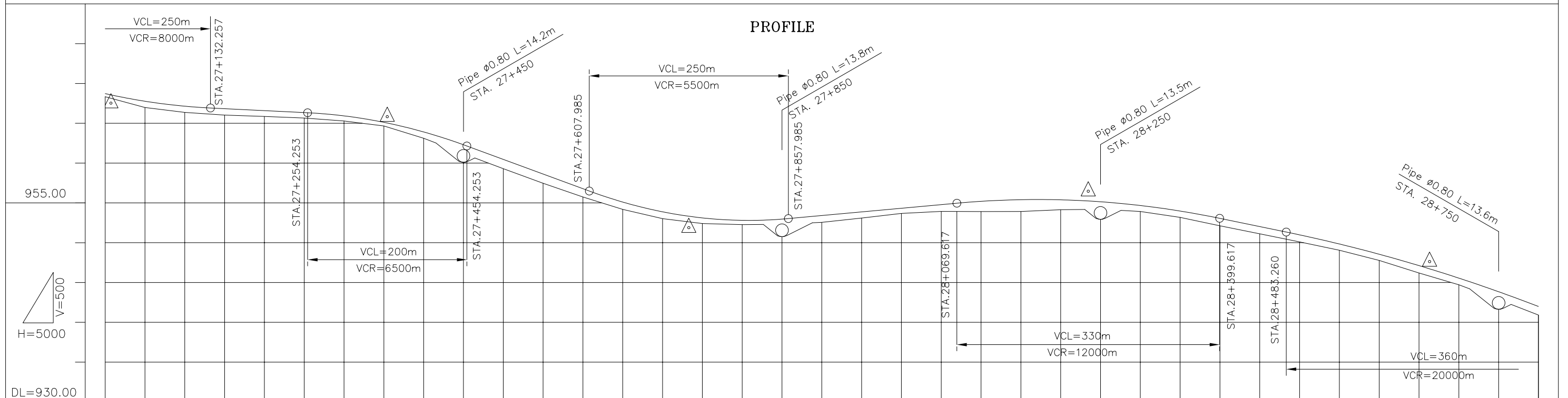
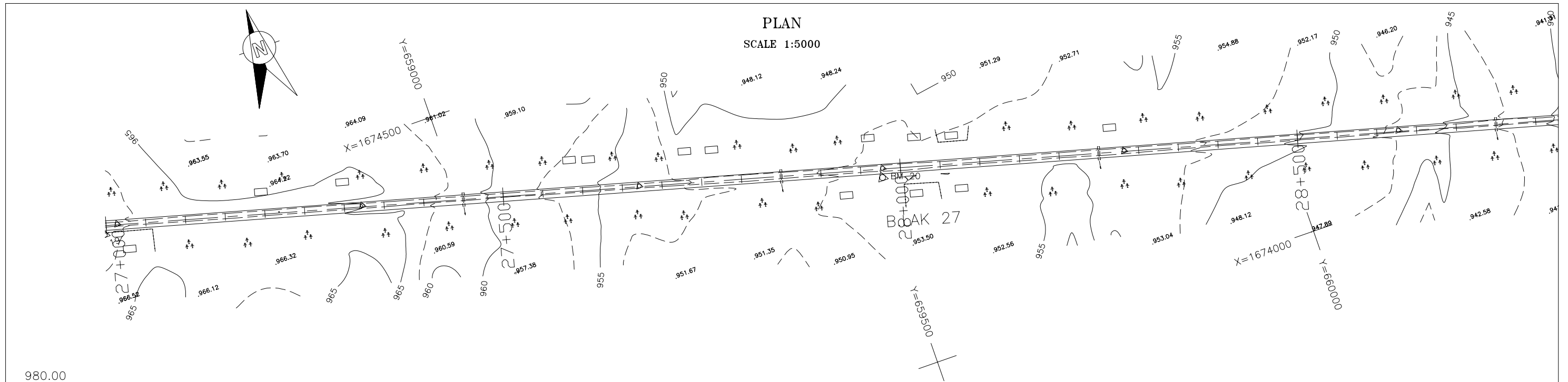
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

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

No.	REVISION	DATE

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.16A PLAN & PROFILE
STA. 25+200.000 TO 27+000.000

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R16-PP-015

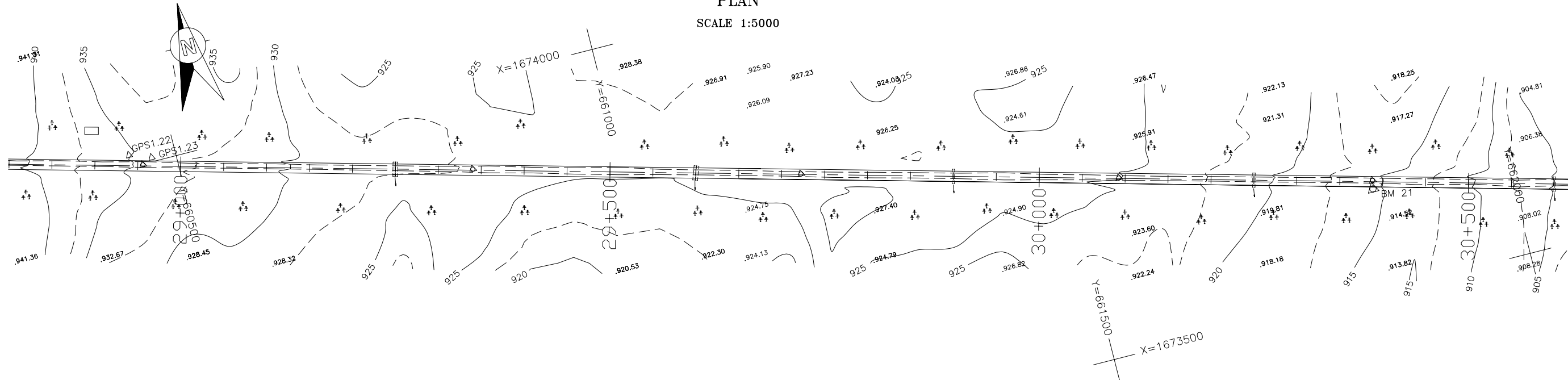


VERTICAL GRADIENT	967.500		$i = -0.490\%$		965.800		$i = -3.681\%$		951.859		$i = 0.913\%$		956.437		$i = -2.062\%$		947.600																										
PROPOSAL HEIGHT	968.692	968.562	967.738	967.114	966.801	966.556	966.311	965.899	965.089	964.49	963.881	962.274	960.435	958.595	956.754	955.076	953.851	953.324	953.086	952.779	952.933	953.383	953.839	954.296	954.752	955.167	955.373	955.355	955.239	955.111	954.642	953.947	953.027	951.996	950.958	949.810	948.521	947.092	946.719	945.523	944.68	943.813	941.962
GROUND HEIGHT	968.31	968.10	966.95	966.33	966.00	965.83	965.62	965.26	964.63	964.49	963.09	961.16	959.26	957.44	955.71	954.15	952.99	952.58	952.38	952.24	952.27	952.53	953.07	953.65	953.90	954.12	954.15	954.17	953.90	953.16	952.09	951.08	950.08	949.02	947.75	946.17	945.77	944.68	942.83	940.88			
STATION	27+000	27+007	27+050	27+100	27+150	27+200	27+250	27+300	27+350	27+354	27+400	27+450	27+500	27+550	27+600	27+650	27+700	27+733	27+750	27+800	27+850	27+900	27+950	28+000	28+050	28+100	28+150	28+200	28+235	28+250	28+300	28+350	28+400	28+450	28+500	28+550	28+600	28+650	28+700	28+750	28+800		
CURVATURE BAND	R=1																																										

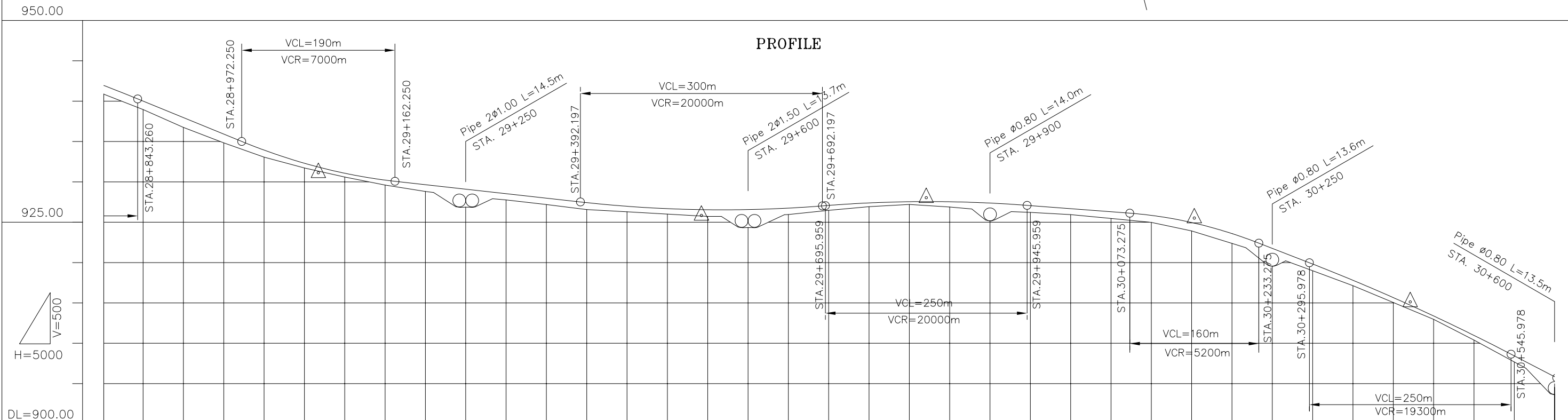
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A	DESIGNED BY
						CHECKED BY
PLAN & PROFILE						APPROVED BY
STA. 27+000.000 TO 28+800.000						DWG. NO.
						R16-PP-016

PLAN

SCALE 1:5000



PROFILE



VERTICAL GRADIENT	i=-4.084%		931.100		i=-1.113%		925.812		i=0.789%		928.010		i=-0.760%		925.483		i=-3.879%		915.099		i=-5.180%																									
PROPOSAL HEIGHT	941.962	939.973	937.931	935.889	933.907	932.277	931.835	931.038	930.190	929.622	929.065	928.508	927.952	927.397	926.944	926.650	926.554	926.514	926.537	926.718	927.056	927.360	927.509	927.555	927.504	927.343	927.029	926.649	926.269	925.819	924.935	924.889	923.563	921.731	919.791	917.776	915.631	914.722	913.356	910.951	908.416	905.826				
GROUND HEIGHT	940.88	938.92	936.71	934.80	933.04	931.69	931.30	930.56	929.57	928.78	928.15	927.74	927.16	926.54	926.26	925.97	925.73	925.69	925.67	925.93	926.45	926.89	927.18	927.04	926.86	926.41	926.18	925.91	925.44	924.95	923.89	923.79	922.34	920.79	918.96	917.11	915.02	914.14	912.94	910.37	907.66	904.96				
STATION	28+800	28+850	28+900	28+950	29+000	29+050	29+067	29+100	29+150	29+200	29+250	29+300	29+350	29+400	29+450	29+500	29+542	29+550	29+600	29+650	29+700	29+750	29+800	29+821	29+850	29+900	29+950	30+000	30+050	30+100	30+150	30+153	30+200	30+250	30+300	30+350	30+400	30+421	30+450	30+500	30+550	30+600				
CURVATURE BAND	=i																																													

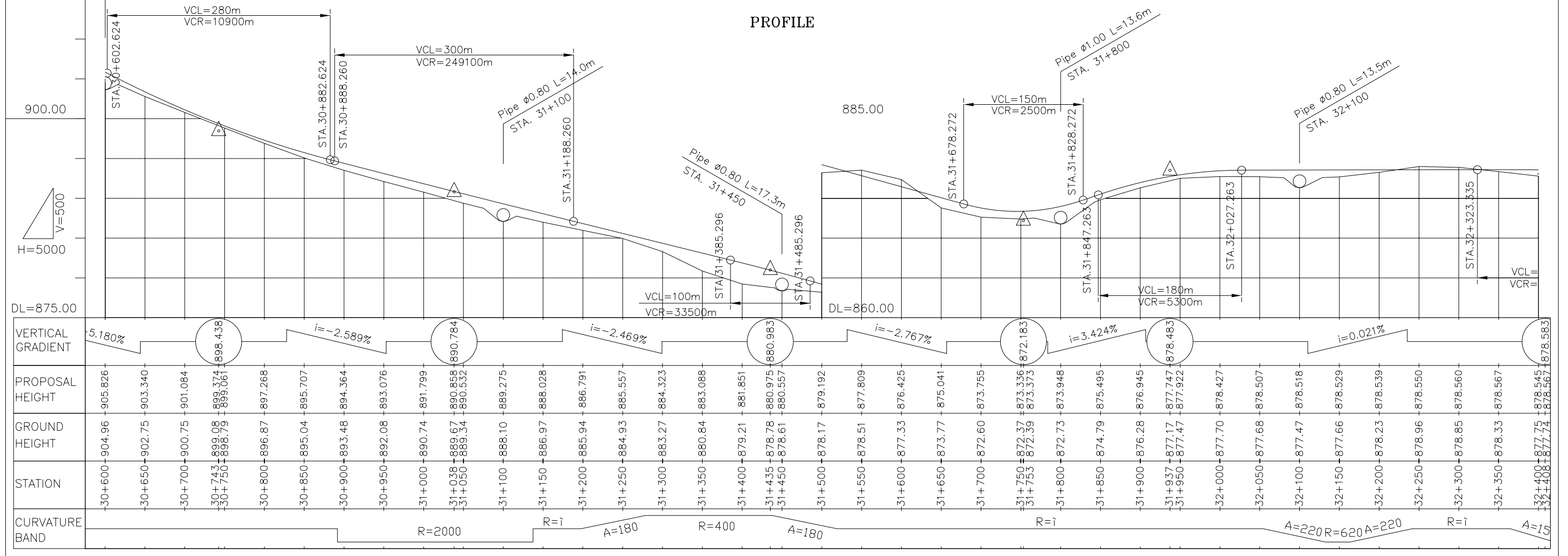
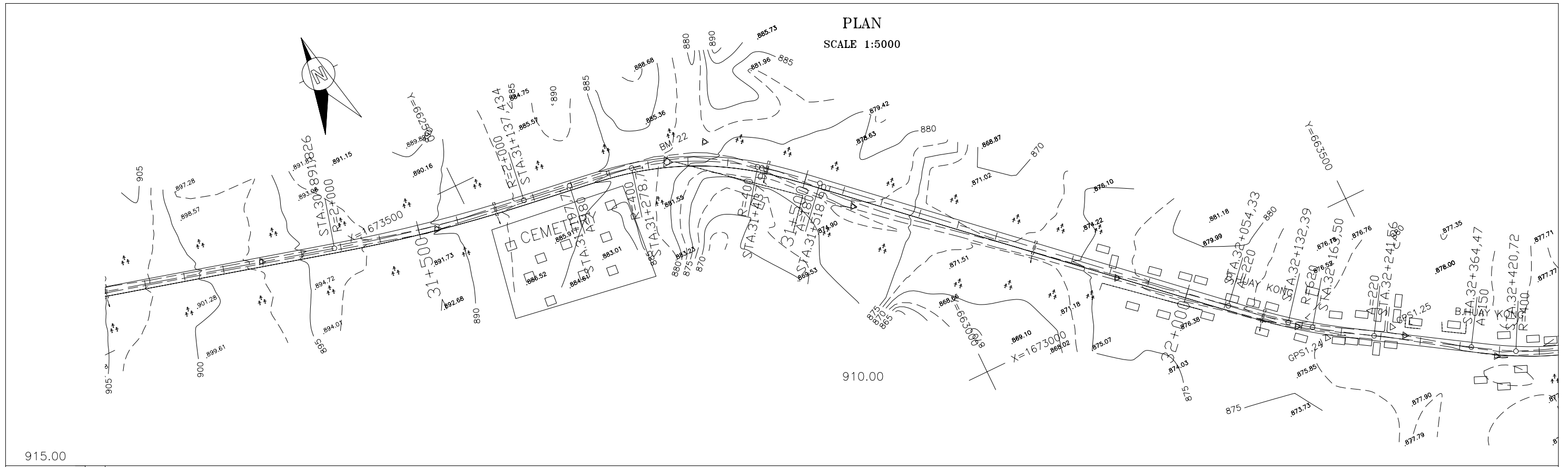
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

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

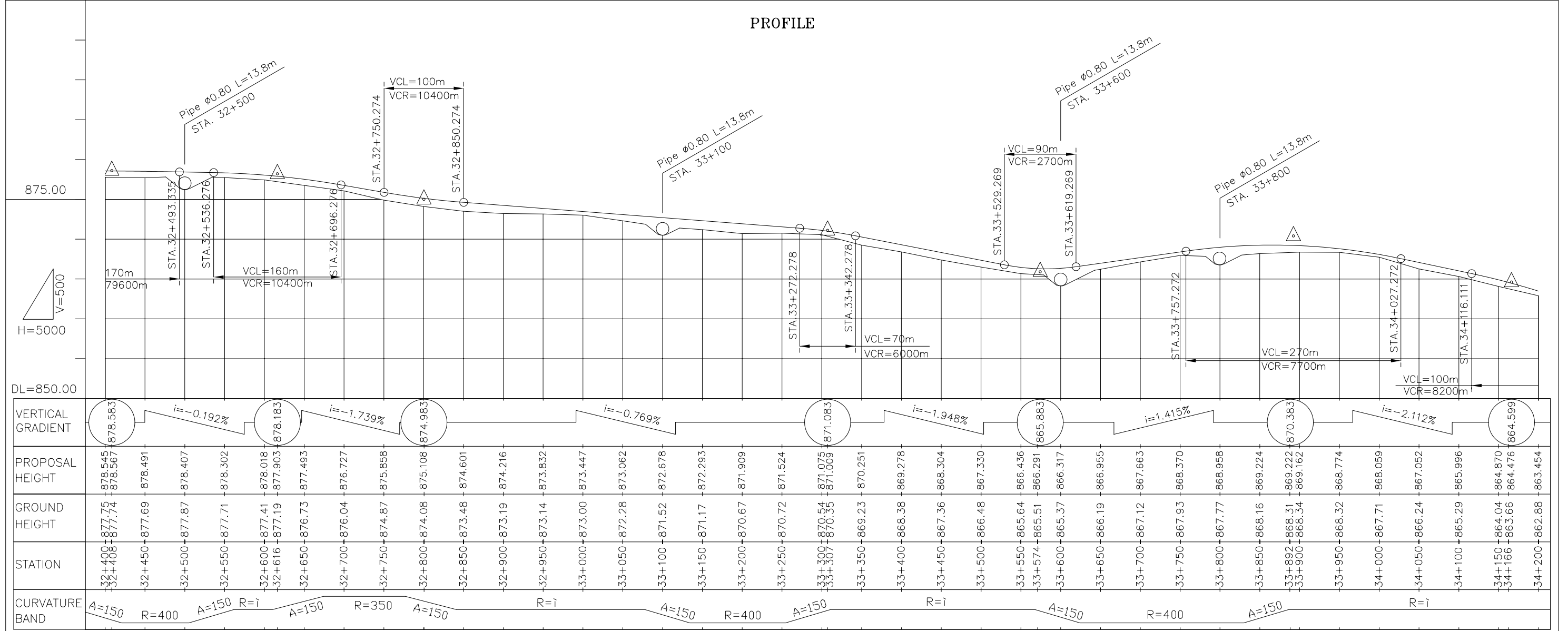
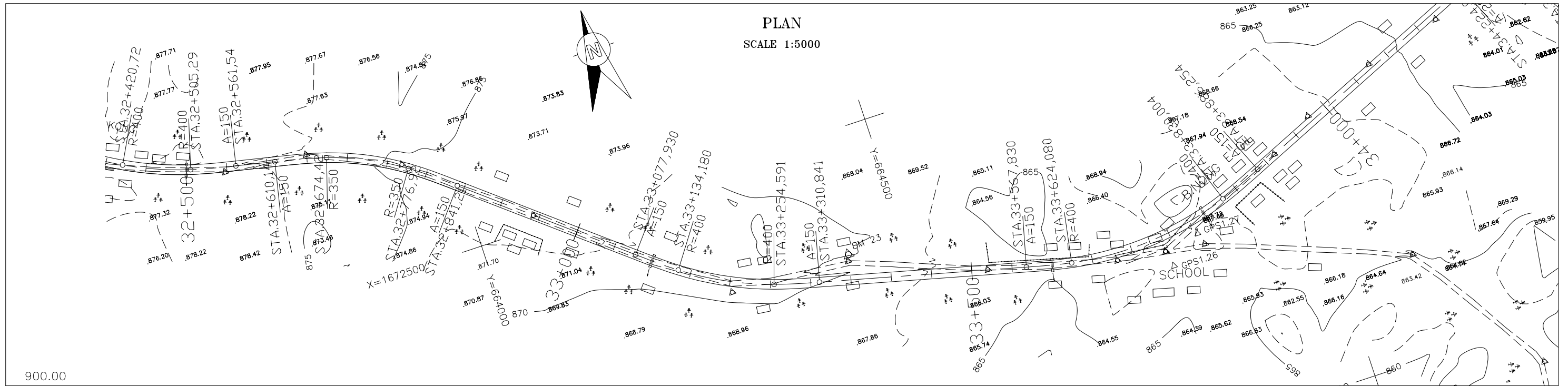
No.	REVISION	DATE

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.16A PLAN & PROFILE
STA. 28+800.000 TO 30+600.000

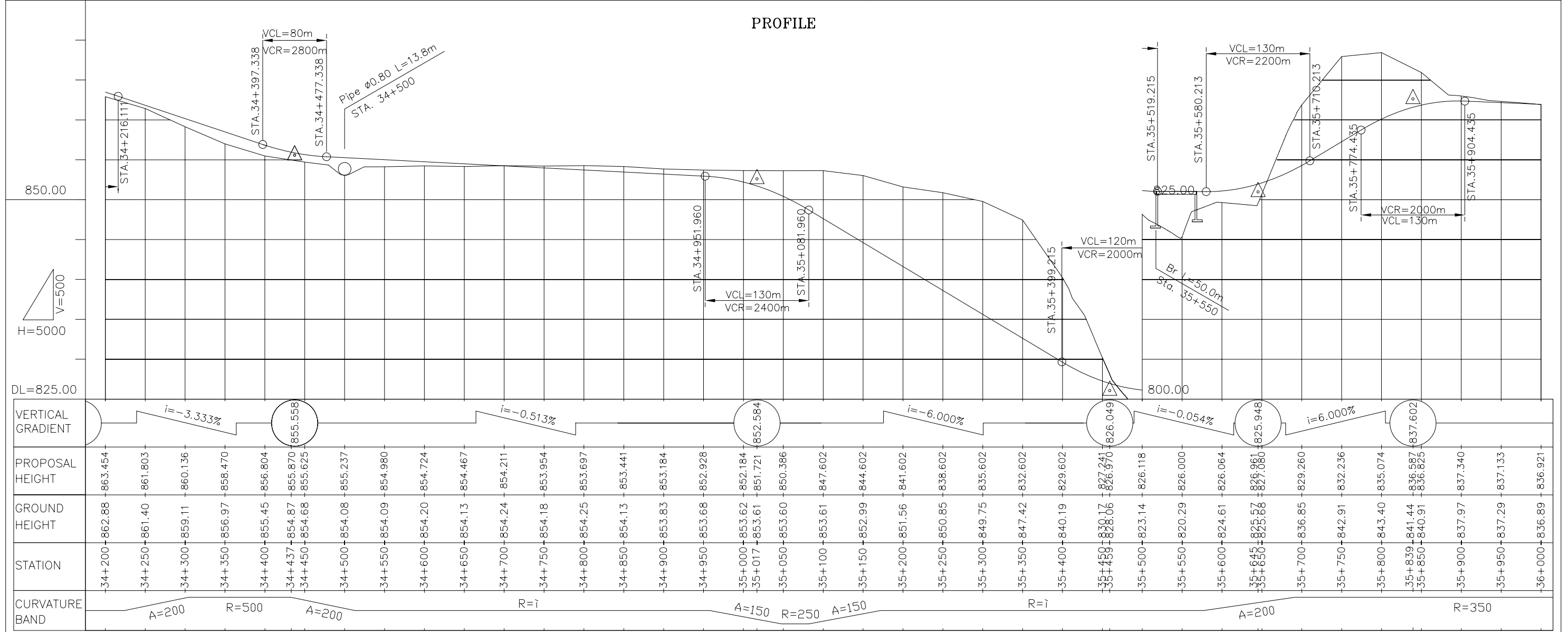
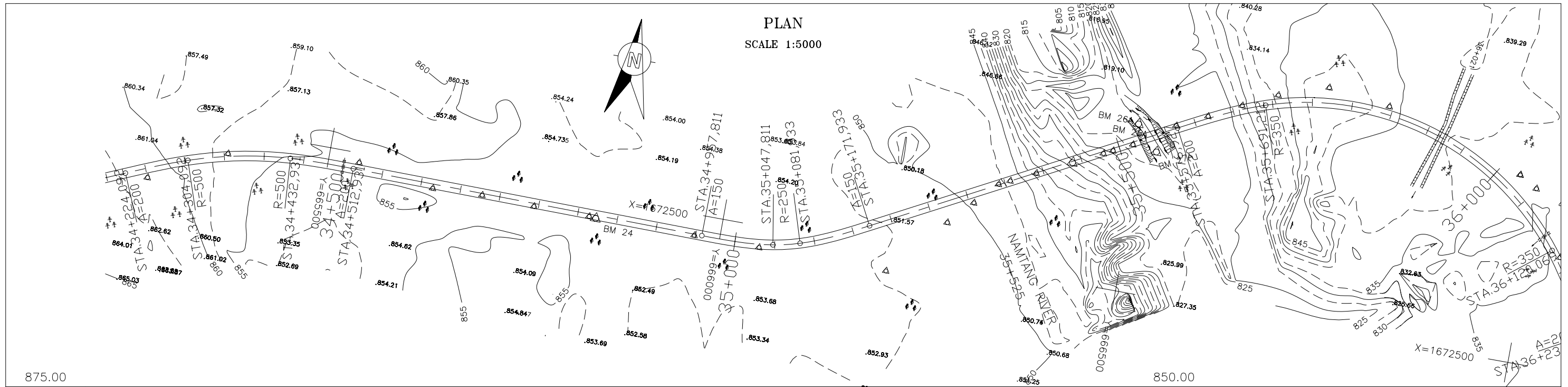
DESIGNED BY	
CHECKED BY	
APPROVED BY	
DWG. NO.	R16-PP-017



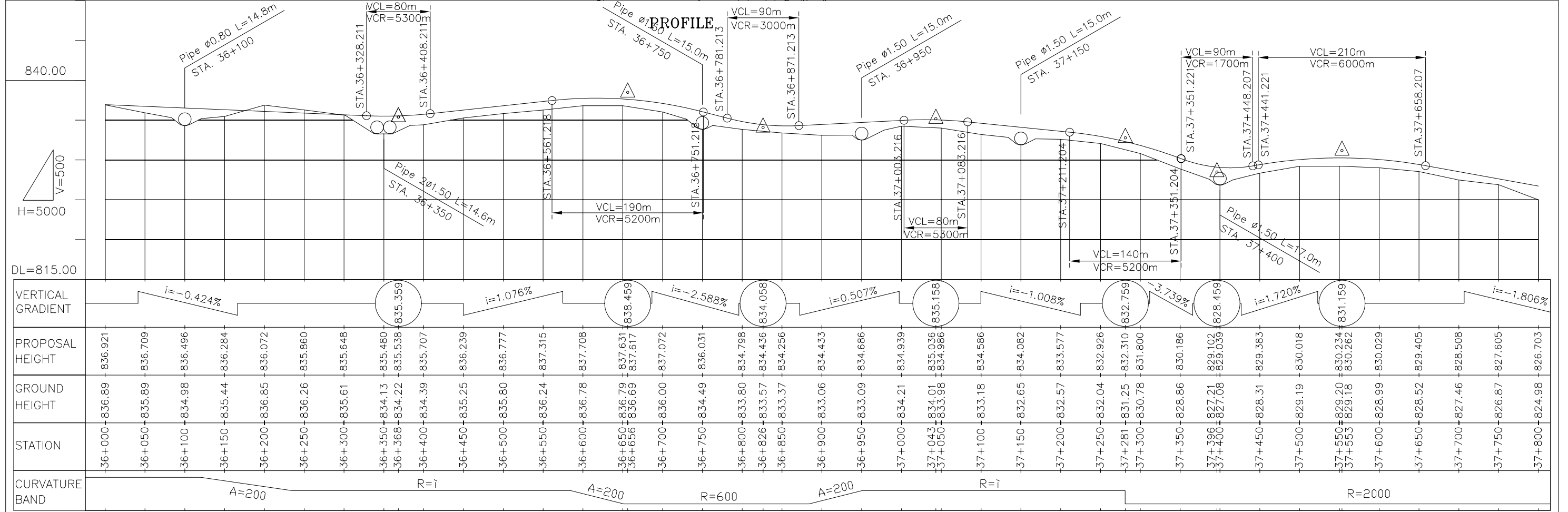
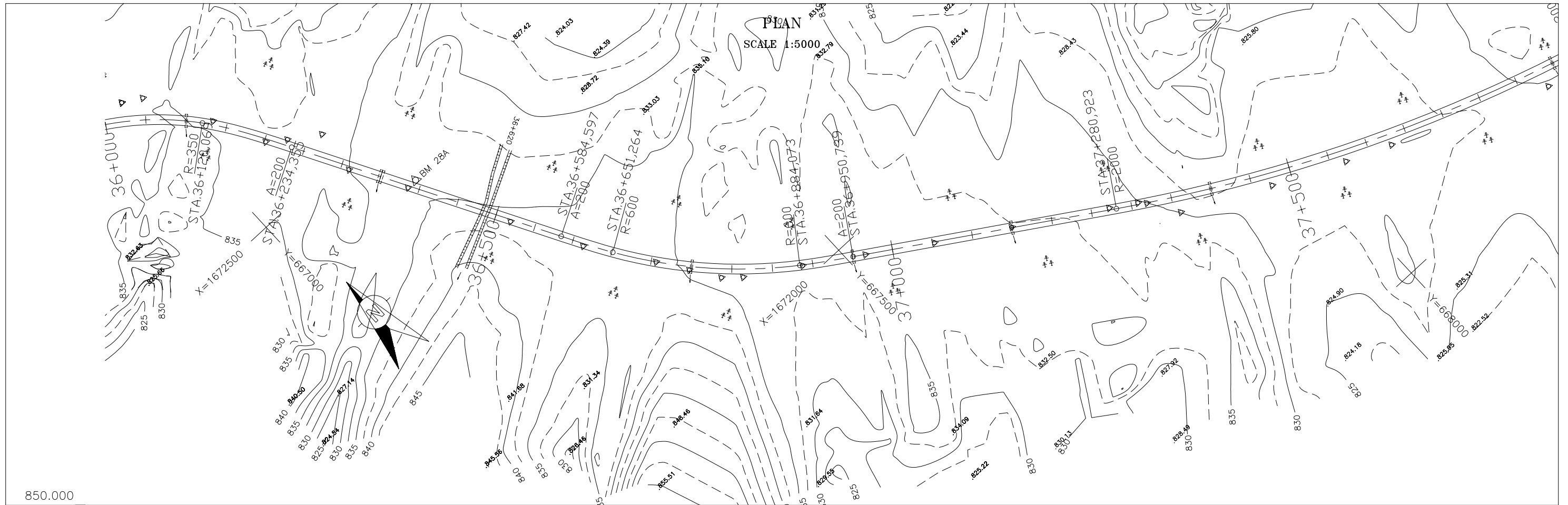
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 30+600.000 TO 32+400.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO. R16-PP-018
No.	REVISION	DATE	



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 32+400.000 TO 34+200.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO. R16-PP-019
No. REVISION DATE			



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 34+200.000 TO 36+000.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO. R16-PP-020
No. _____ REVISION _____ DATE _____			



STATION	PROPOSAL HEIGHT	GROUND HEIGHT	VERTICAL GRADIENT	CURVATURE BAND
36+000	836.921	836.89	$i = -0.424\%$	A=200
36+050	836.709	835.89		
36+100	836.496	834.98		R=i
36+150	836.284	835.44		
36+200	836.072	836.85		A=200
36+250	835.860	836.26		
36+300	835.648	835.61		R=i
36+350	835.480	834.13		
36+368	835.538	834.22	$i = 1.076\%$	R=600
36+400	835.707	834.39		
36+450	836.239	835.25		A=200
36+500	836.777	835.80		
36+550	837.315	836.24		R=2000
36+600	837.708	836.78		
36+650	837.631	836.79	$i = -2.588\%$	R=i
36+656	837.617	836.69		
36+700	837.072	836.00		A=200
36+750	836.031	834.49		
36+800	834.798	833.80	$i = 0.507\%$	R=2000
36+826	834.436	833.57		
36+850	834.256	833.37		A=200
36+900	834.433	833.06		
36+950	834.686	833.09	$i = -1.008\%$	R=i
37+000	834.939	834.21		
37+043	835.036	834.01	$i = -3.739\%$	R=2000
37+050	834.986	833.98		
37+100	834.586	833.18		A=200
37+150	834.082	832.65		
37+200	833.577	832.57	$i = 1.720\%$	R=2000
37+250	832.926	832.04		
37+281	832.310	831.25	$i = -1.806\%$	R=i
37+300	831.800	830.78		
37+350	830.186	828.86		A=200
37+396	829.102	827.21		
37+400	829.039	827.08		R=2000
37+450	829.383	828.31		
37+500	830.018	829.19		A=200
37+550	830.234	829.20		
37+553	830.262	829.18		R=2000
37+600	830.029	828.99		
37+650	829.405	828.52		A=200
37+700	828.508	827.46		
37+750	827.605	826.87		R=2000
37+800	826.703	824.98		

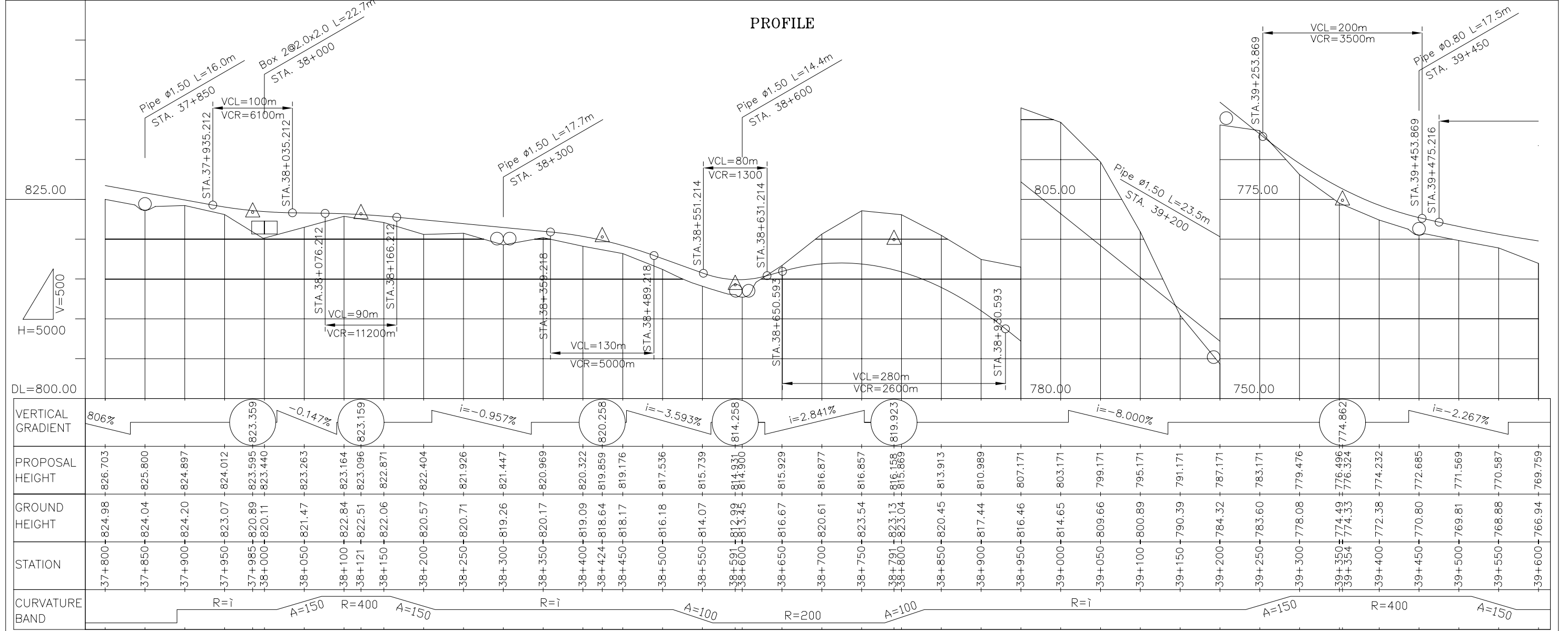
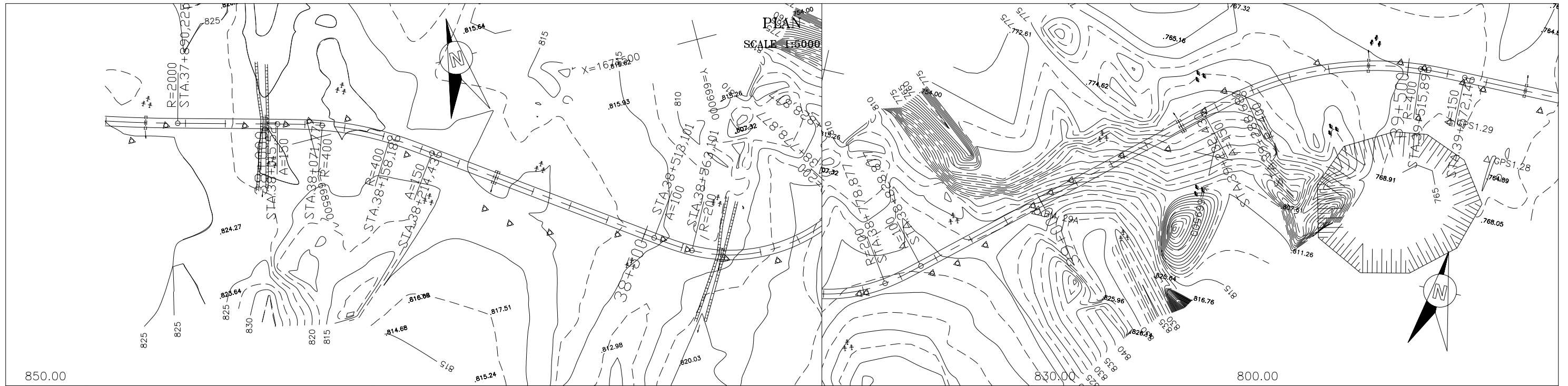
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

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

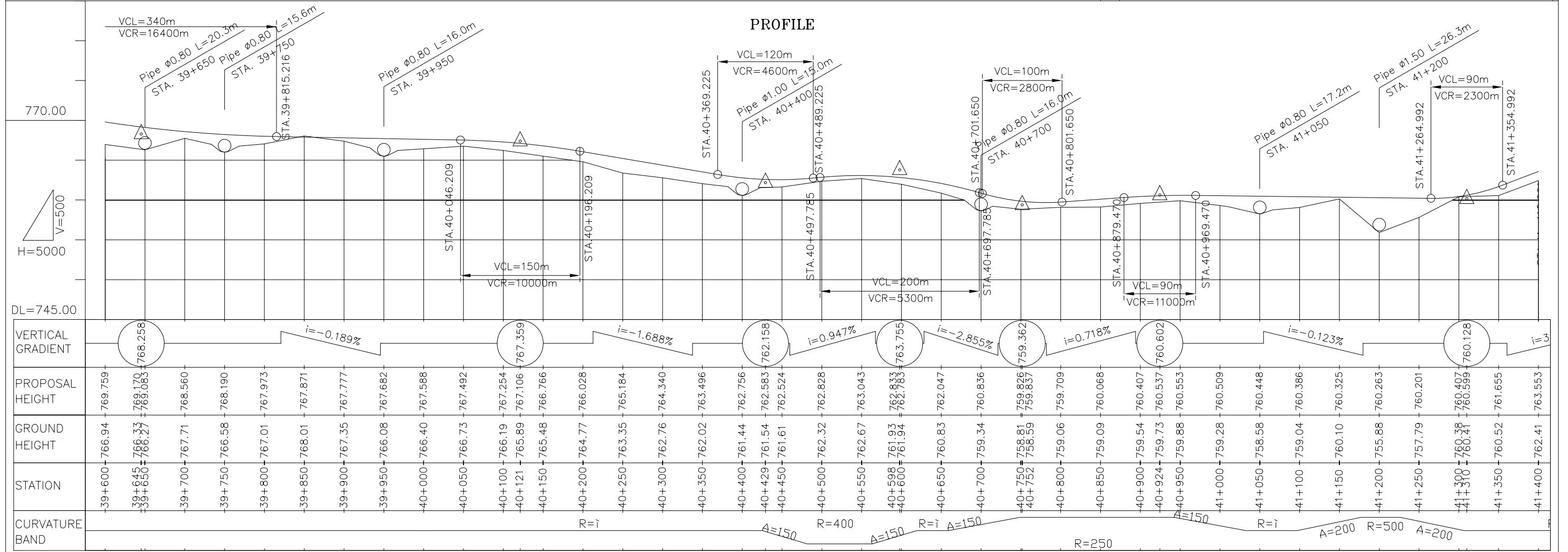
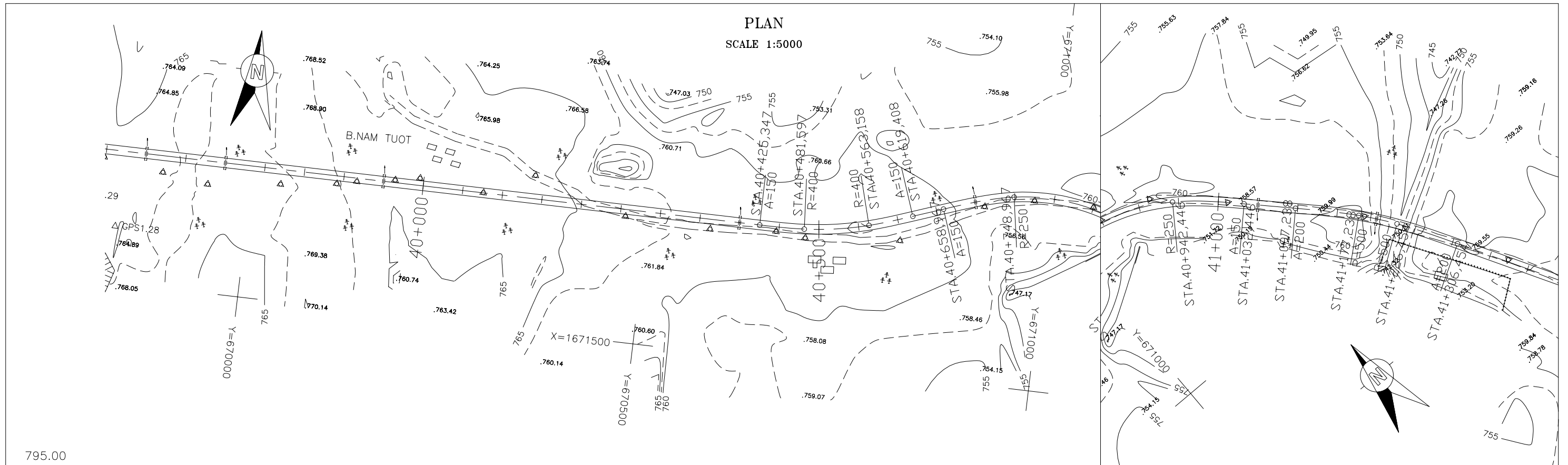
No.	REVISION	DATE
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THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.16A PLAN & PROFILE
STA. 36+000.000 TO 37+800.000

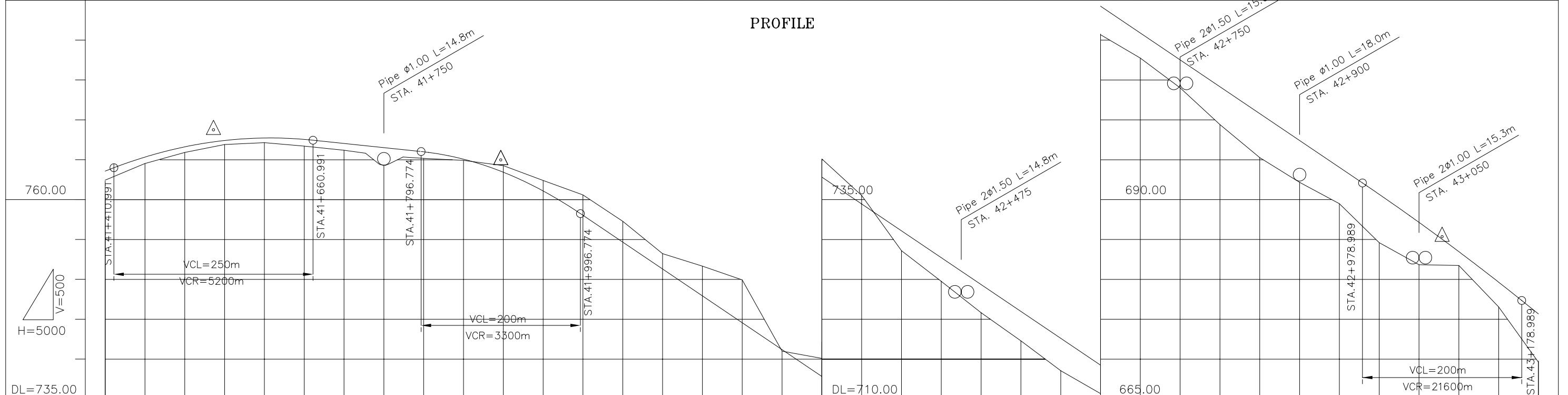
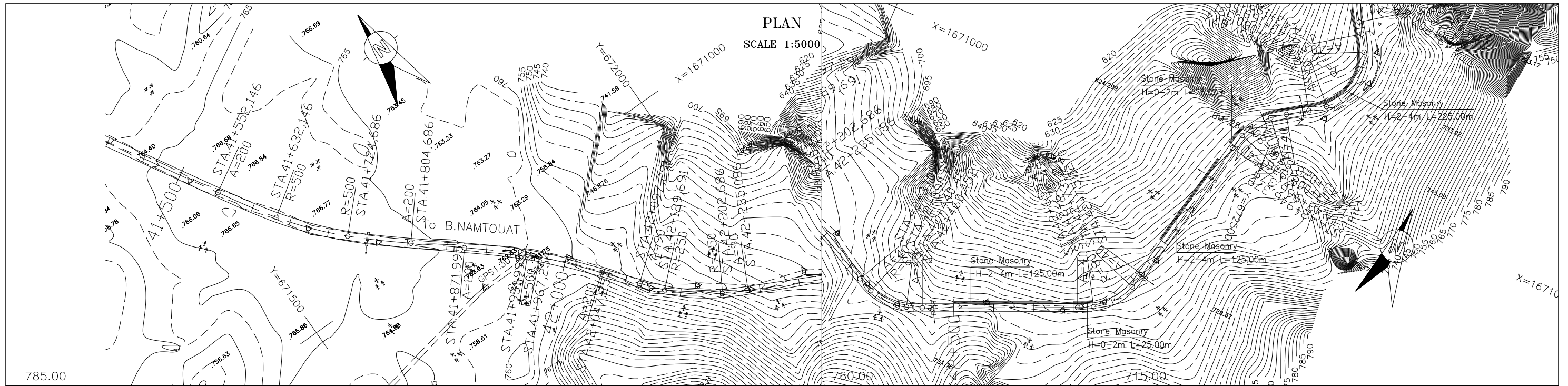
DESIGNED BY	
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APPROVED BY	
DWG. NO.	R16-PP-021



THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 37+800.00 TO 39+600.00	DESIGNED BY	
						CHECKED BY	
						APPROVED BY	
						DWG. NO.	R16-PP-022

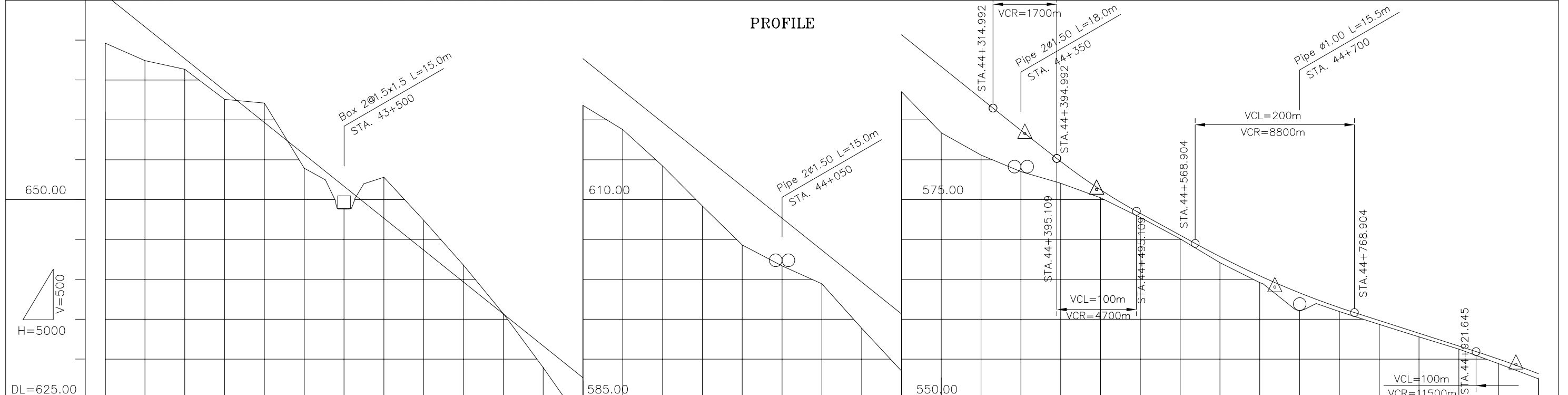
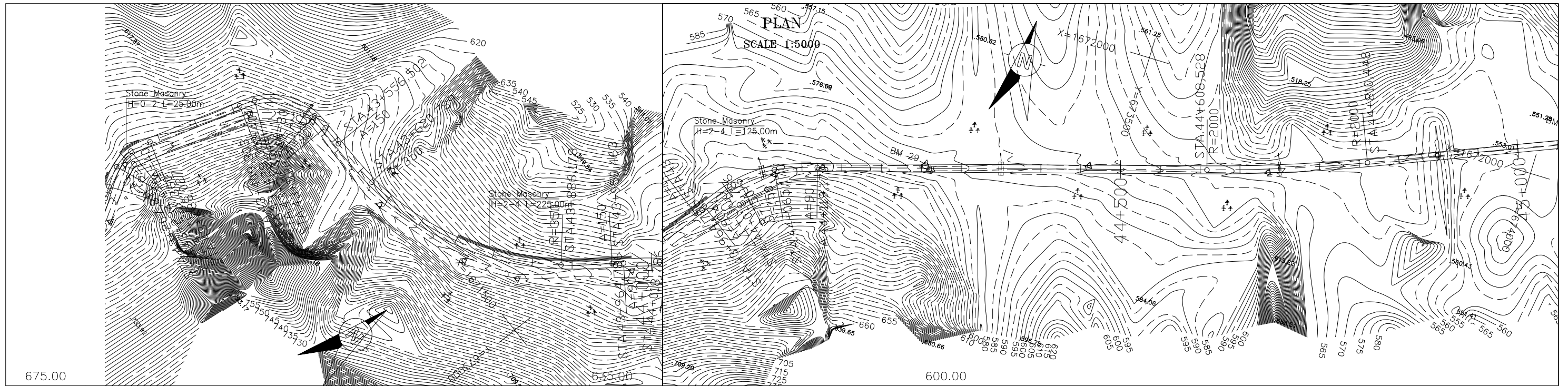


THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 39+600.000 TO 41+400.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO. R16-PP-023
No.	REVISION	DATE	

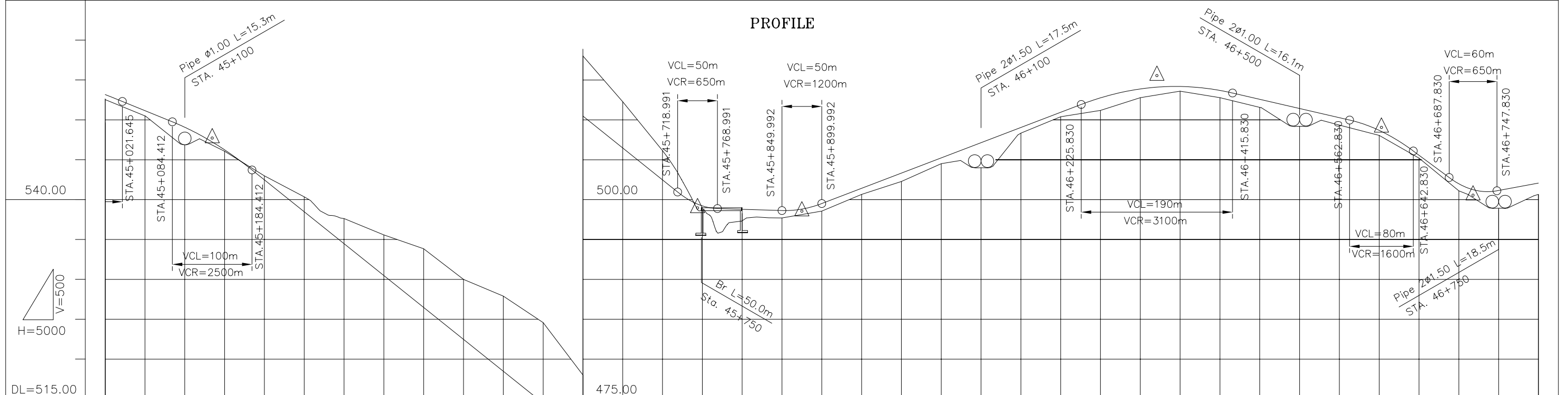
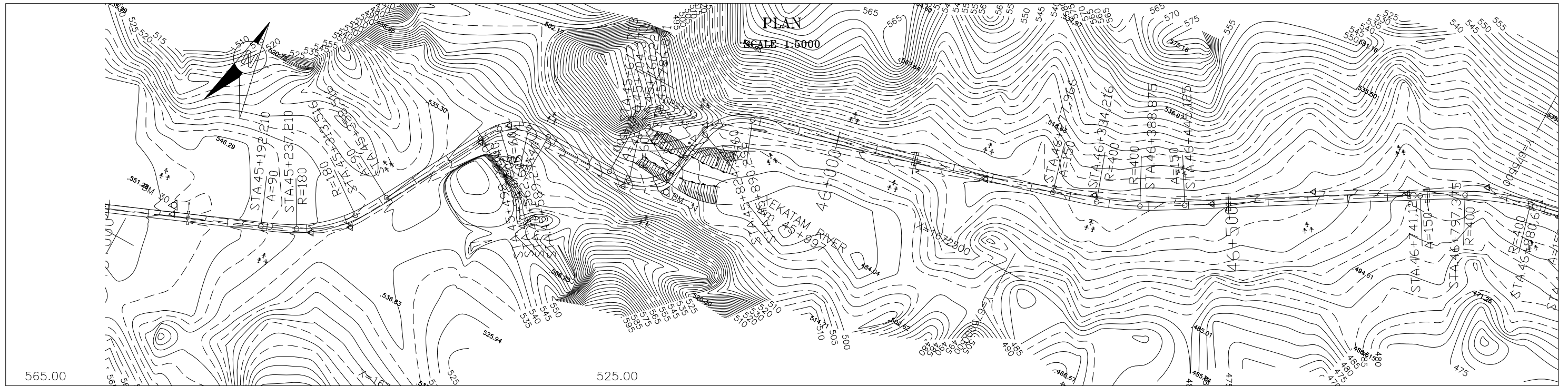


VERTICAL GRADIENT	i=3.805%		i=-1.045%		i=-6.735%	
PROPOSAL HEIGHT	763.553	765.308	766.589	767.241	768.728	764.956
GROUND HEIGHT	762.41	764.50	765.89	766.57	767.241	763.316
STATION	41+400	41+450	41+500	41+550	41+600	41+650
CURVATURE BAND	R=i	A=200	R=500	A=200	R=i	A=200R=500A=200

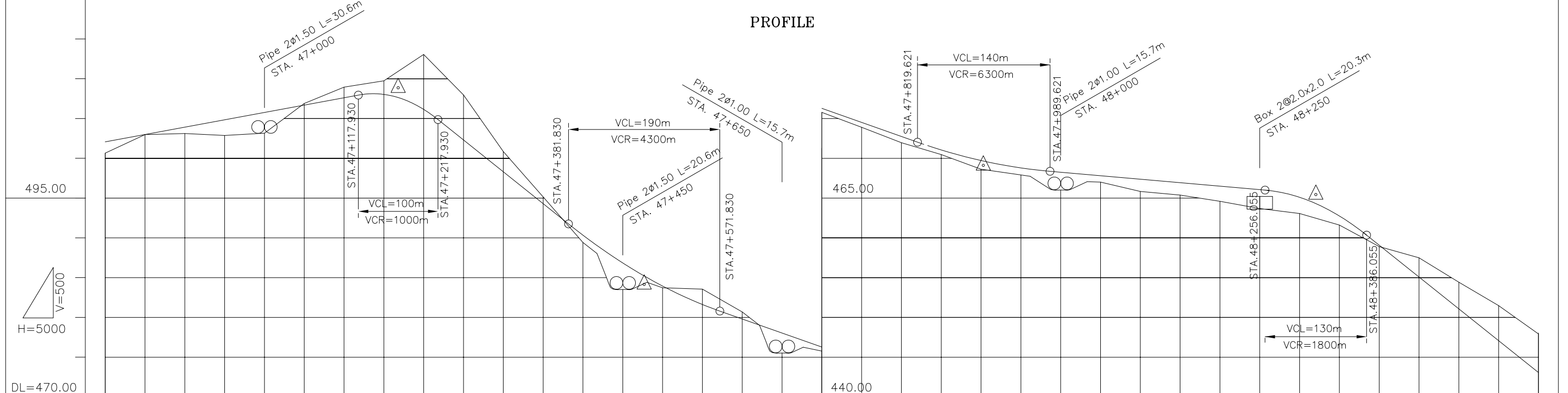
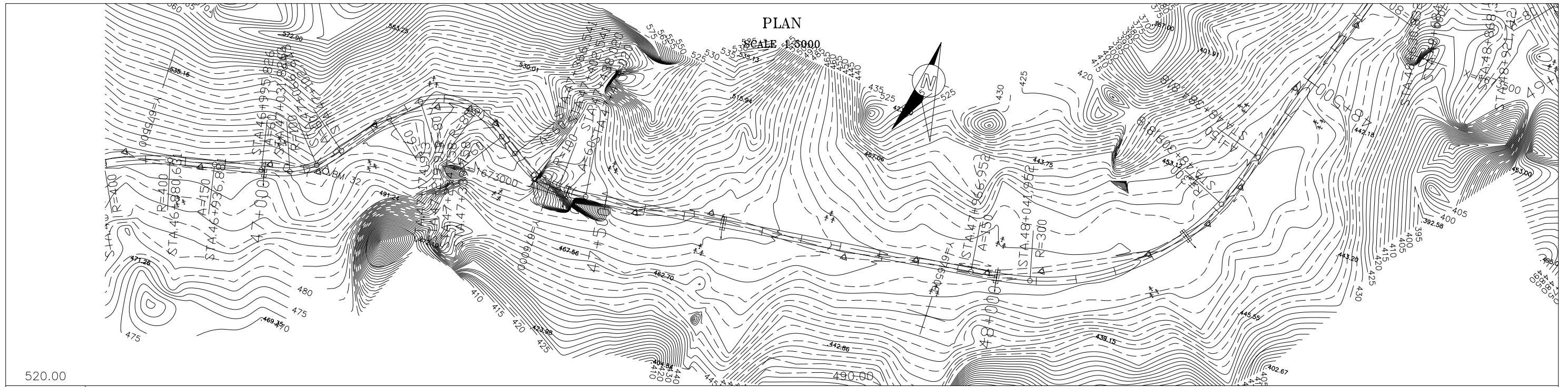
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R.	DESIGNED BY
					RT.16A	CHECKED BY
					PLAN & PROFILE	APPROVED BY
					STA. 41+400.000 TO 43+200.000	DWG. NO.
						R16-PP-024



VERTICAL GRADIENT	$i = -8.000\%$																																							
PROPOSAL HEIGHT	675.647	671.647	667.647	663.647	659.647	655.647	651.647	647.647	643.647	639.647	635.647	631.647	627.647	623.647	619.647	615.647	611.647	607.647	603.647	599.647	595.646	591.646	587.646	584.247	583.299	579.754	576.214	573.246	570.512	567.834	564.012	563.285	561.436	559.814	558.213	556.612	554.976	554.238	553.144	
GROUND HEIGHT	669.59	667.39	666.31	662.54	662.07	653.90	651.16	652.77	647.39	641.75	635.69	628.92	621.79	618.75	614.20	609.18	604.28	601.67	599.42	593.84	588.49	583.35	580.56	578.48	578.41	577.02	575.47	572.74	570.06	567.07	564.57	563.96	562.67	560.94	559.33	557.77	556.23	554.40	553.67	552.51
STATION	43+200	43+250	43+300	43+350	43+400	43+450	43+500	43+550	43+600	43+650	43+700	43+750	43+800	43+850	43+900	43+950	44+000	44+050	44+100	44+150	44+200	44+250	44+300	44+350	44+400	44+450	44+500	44+550	44+600	44+650	44+700	44+750	44+800	44+850	44+900	44+950	44+972	45+000		
CURVATURE BAND	A=40 R=60				R=i				A=40 R=80				R=i				A=150 R=350				A=150 R=i				A=90 R=150				R=i				R=2000				R=i			

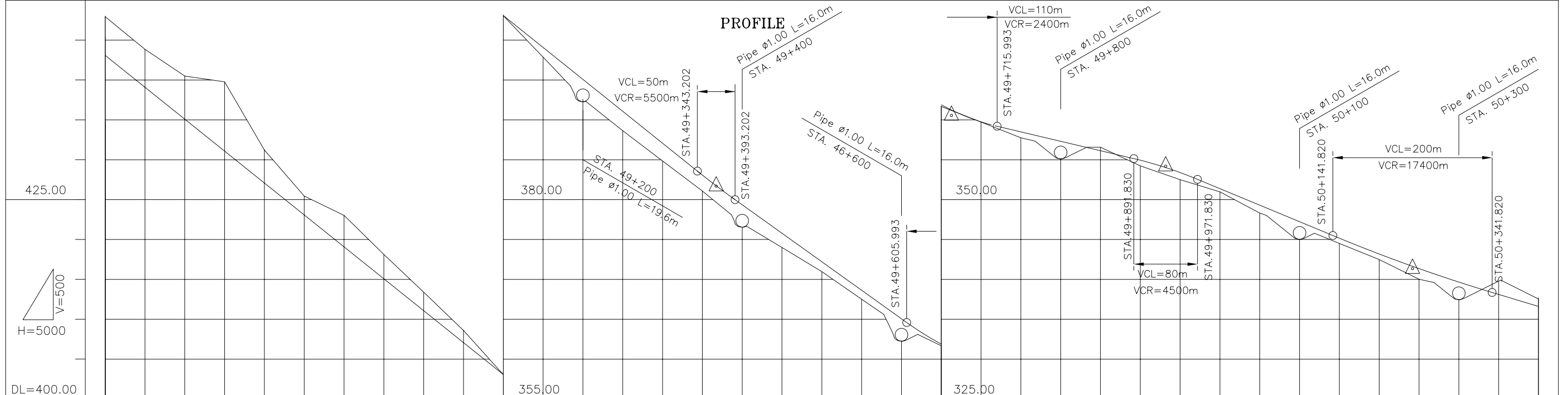
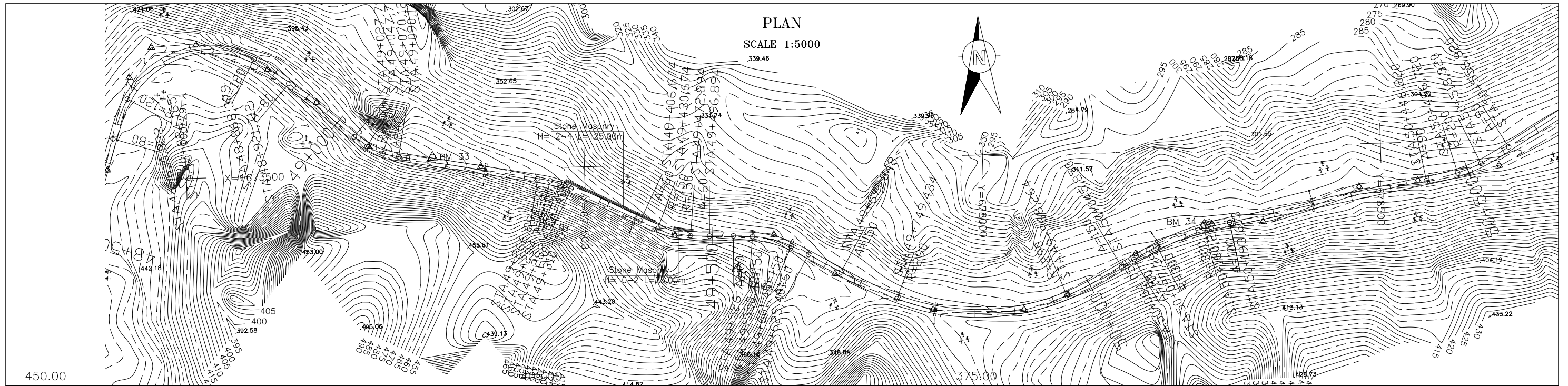


VERTICAL GRADIENT	i=-4.070%		547.694		i=-8.000%		498.928		i=-0.305%		498.528		i=3.813%		515.528		i=-2.305%		509.027		i=-7.391%		500.528																				
PROPOSAL HEIGHT	553.144	551.129	549.047	547.232	546.214	542.447	538.447	534.447	530.447	526.447	522.447	518.447	514.447	510.447	506.447	502.447	499.437	499.187	498.757	498.604	498.814	499.481	501.388	503.294	505.201	507.107	509.014	510.920	512.733	513.848	514.104	514.158	513.662	512.550	511.398	510.245	508.654	508.548	505.541	501.959	501.249	501.122	502.045
GROUND HEIGHT	552.51	550.47	548.51	546.93	546.03	542.96	540.32	537.60	535.54	533.81	529.98	527.87	524.55	517.98	512.25	506.12	498.92	498.69	498.25	497.68	498.85	498.53	500.63	502.25	504.48	505.31	508.31	510.37	511.15	512.75	513.10	513.57	512.76	511.54	510.66	509.31	508.03	507.78	505.18	501.07	500.33	499.10	500.62
STATION	45+000	45+050	45+100	45+134	45+150	45+200	45+250	45+300	45+350	45+400	45+450	45+500	45+550	45+600	45+650	45+700	45+744	45+750	45+800	45+850	45+875	45+900	45+950	46+000	46+050	46+100	46+150	46+200	46+250	46+300	46+321	46+350	46+400	46+450	46+500	46+550	46+600	46+603	46+650	46+700	46+718	46+750	46+800
CURVATURE BAND	R=i		A=90 R=180		A=90		R=i		A=40 R=60		A=40 R=60		R=i		R=60		R=i		R=i		A=150 R=400		A=150		R=i		A=150																

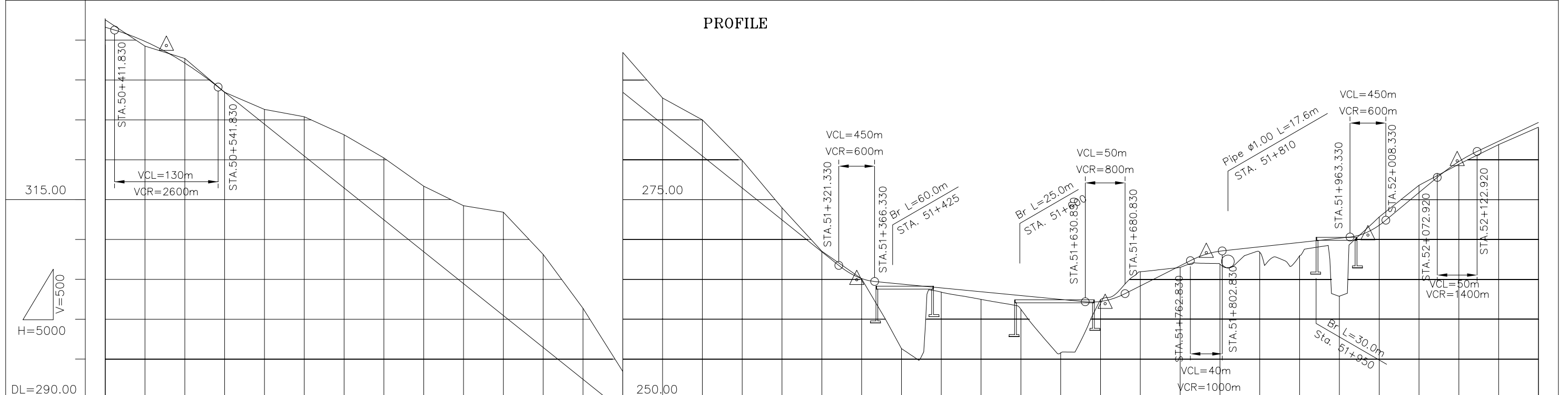
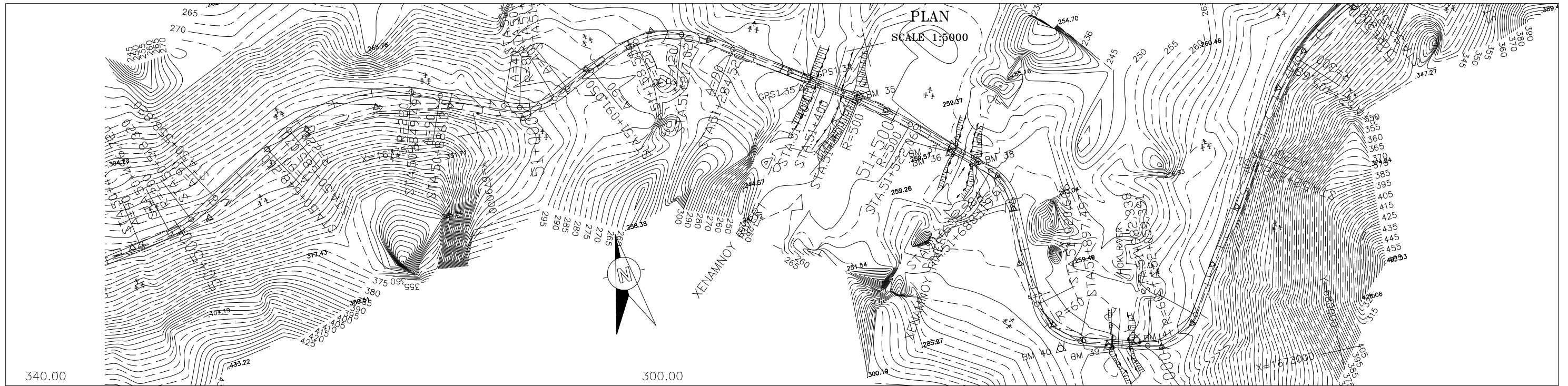


VERTICAL GRADIENT	i=1.847%		508.839		i=-8.000%		484.128		i=-3.530%		469.089		i=-0.874%		645.444																											
PROPOSAL HEIGHT	502.045	502.968	503.892	504.815	505.738	506.662	507.585	508.002	507.638	506.116	502.274	498.274	494.274	490.313	486.821	485.218	483.916	481.601	479.779	478.014	476.249	474.484	472.719	471.027	469.704	469.662	468.780	468.240	467.803	467.365	466.928	466.491	466.054	465.078	464.307	462.715	459.030	455.030	451.030	447.029	443.029	
GROUND HEIGHT	500.62	502.95	503.09	502.84	503.13	506.87	508.92	509.71	511.00	513.03	507.94	500.82	495.12	489.40	485.46	484.48	483.70	483.53	480.67	476.78	475.74	473.87	471.94	470.44	468.60	468.55	467.89	467.12	466.99	465.81	465.35	464.57	463.66	463.04	462.45	461.58	458.88	457.47	454.40	451.45	447.90	447.90
STATION	46+800	46+850	46+900	46+950	47+000	47+050	47+100	47+150	47+168	47+200	47+250	47+300	47+350	47+400	47+450	47+477	47+500	47+550	47+600	47+650	47+700	47+750	47+800	47+850	47+900	47+903	47+950	48+000	48+050	48+100	48+150	48+200	48+250	48+300	48+320	48+350	48+400	48+450	48+500	48+550	48+600	
CURVATURE BAND	R=150		R=400		A=150		R=i		A=60		R=100		R=60		R=i		A=60		R=80		A=60		R=i		A=150		R=300		A=150		R=i											

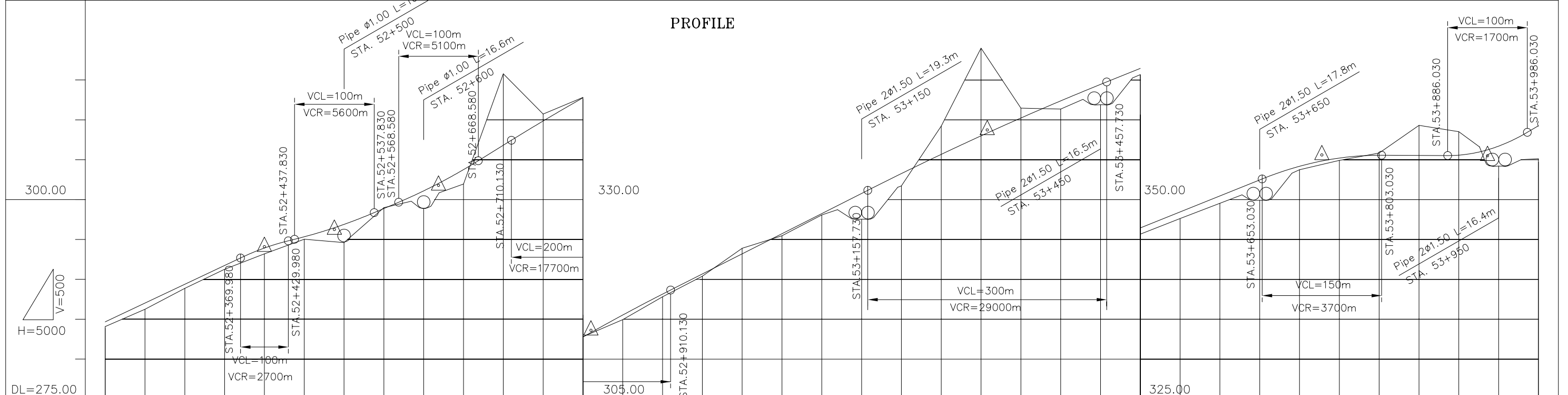
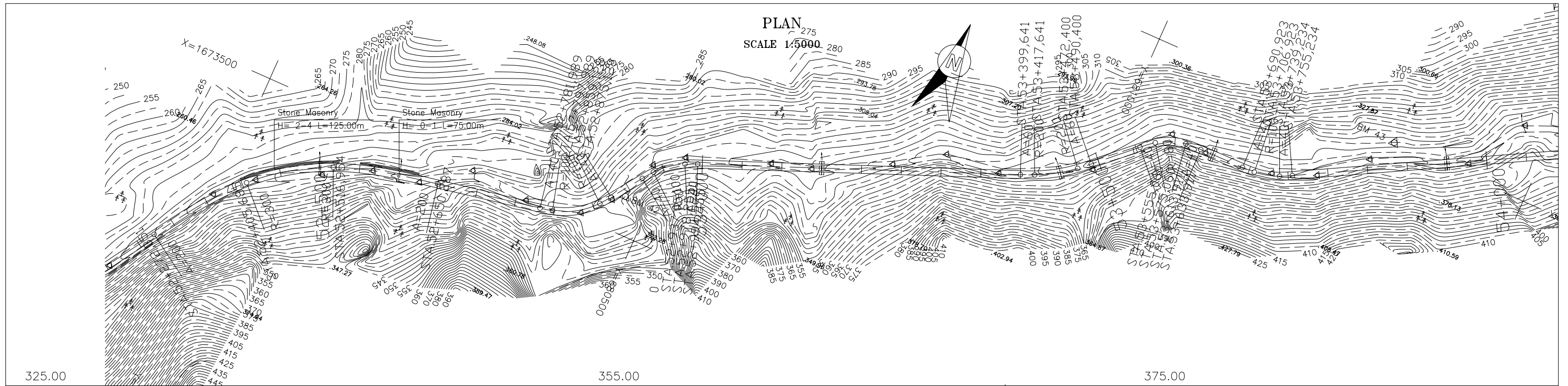
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R.	DESIGNED BY
					RT.16A	CHECKED BY
					PLAN & PROFILE	APPROVED BY
					STA. 46+800.000 TO 48+600.000	DWG. NO.
						R16-PP-027



DL=400.00																																									
VERTICAL GRADIENT	$i = -8.000\%$																																								
PROPOSAL HEIGHT	443.029	439.029	435.029	431.029	427.029	423.028	419.028	415.028	411.028	407.028	403.028	399.027	395.027	391.027	387.027	383.031	381.741	379.310	375.737	372.164	368.590	365.017	361.850	361.242	359.723	358.468	357.286	356.105	354.916	354.023	353.366	351.347	349.275	347.204	345.134	343.158	341.644	341.325	339.635	338.087	336.589
GROUND HEIGHT	447.90	443.82	440.46	439.74	431.19	425.41	423.01	418.09	413.37	408.57	403.03	397.84	392.58	388.62	384.81	381.06	379.60	376.97	373.97	370.95	367.48	364.06	361.65	361.12	359.69	357.72	356.56	356.54	354.21	353.07	352.48	350.95	348.29	346.53	344.48	342.45	340.31	339.99	338.90	340.02	337.52
STATION	48+600	48+650	48+700	48+750	48+800	48+850	48+900	48+950	49+000	49+050	49+100	49+150	49+200	49+250	49+300	49+350	49+367	49+400	49+450	49+500	49+550	49+600	49+650	49+663	49+700	49+750	49+800	49+850	49+900	49+932	49+950	50+000	50+050	50+100	50+150	50+200	50+242	50+250	50+300	50+350	50+400
CURVATURE BAND	A=80		R=120		A=80		R=i		A=40 R=40		R=i		A=40 R=100		R=i		A=60 R=150		R=i		A=60 R=150		R=i		A=150		R=290		A=150 R=i		A=100 R=300		A=100		R=i						

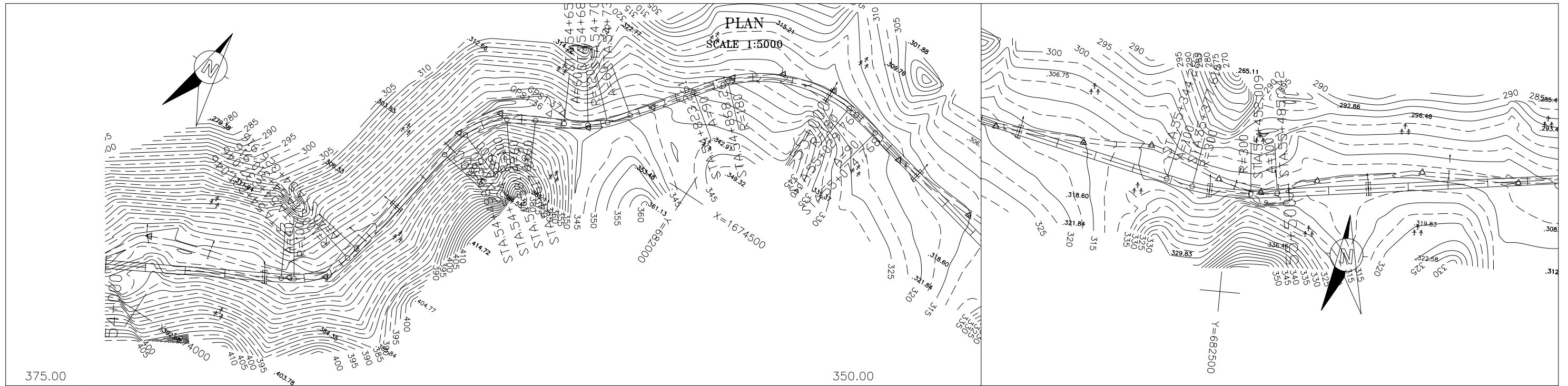


VERTICAL GRADIENT	9.6%		A=90 R=200 A=90		i=-8.000%		A=90 R=220 A=90		i=-0.962%		A=90 R=120 A=90		i=5.039%		i=1.084%		A=90 R=60 A=90		i=8.305%																							
PROPOSAL HEIGHT	336.589	334.811	333.503	332.097	328.434	324.434	320.434	316.434	312.434	308.434	304.434	296.434	292.434	288.434	284.434	280.434	276.434	272.434	268.434	265.353	264.387	263.907	263.426	262.945	262.464	262.204	262.332	264.153	266.673	268.159	268.510	269.055	269.597	270.139	270.963	271.760	275.857	279.746	282.291	284.647		
GROUND HEIGHT	337.52	334.22	333.41	332.66	328.43	326.28	325.36	323.10	320.20	316.65	314.20	308.10	301.34	293.42	287.71	284.97	279.89	273.94	268.50	265.18	265.05	256.58	263.37	262.46	261.22	255.77	262.44	262.69	265.93	266.47	266.98	267.00	268.39	267.93	262.86	271.54	272.80	276.77	279.41	281.88	284.05	
STATION	50+400	50+450	50+477	50+500	50+550	50+600	50+650	50+700	50+750	50+800	50+850	50+900	50+950	51+000	51+050	51+100	51+150	51+200	51+250	51+300	51+344	51+350	51+400	51+450	51+500	51+550	51+600	51+650	51+656	51+700	51+750	51+783	51+800	51+850	51+900	51+950	51+986	52+000	52+050	52+100	52+150	52+200
CURVATURE BAND	A=90 R=200 A=90		R=220		A=90 R=220 A=90		R=120		A=90 R=120 A=90		R=500		R=60		R=60		R=60		R=60																							

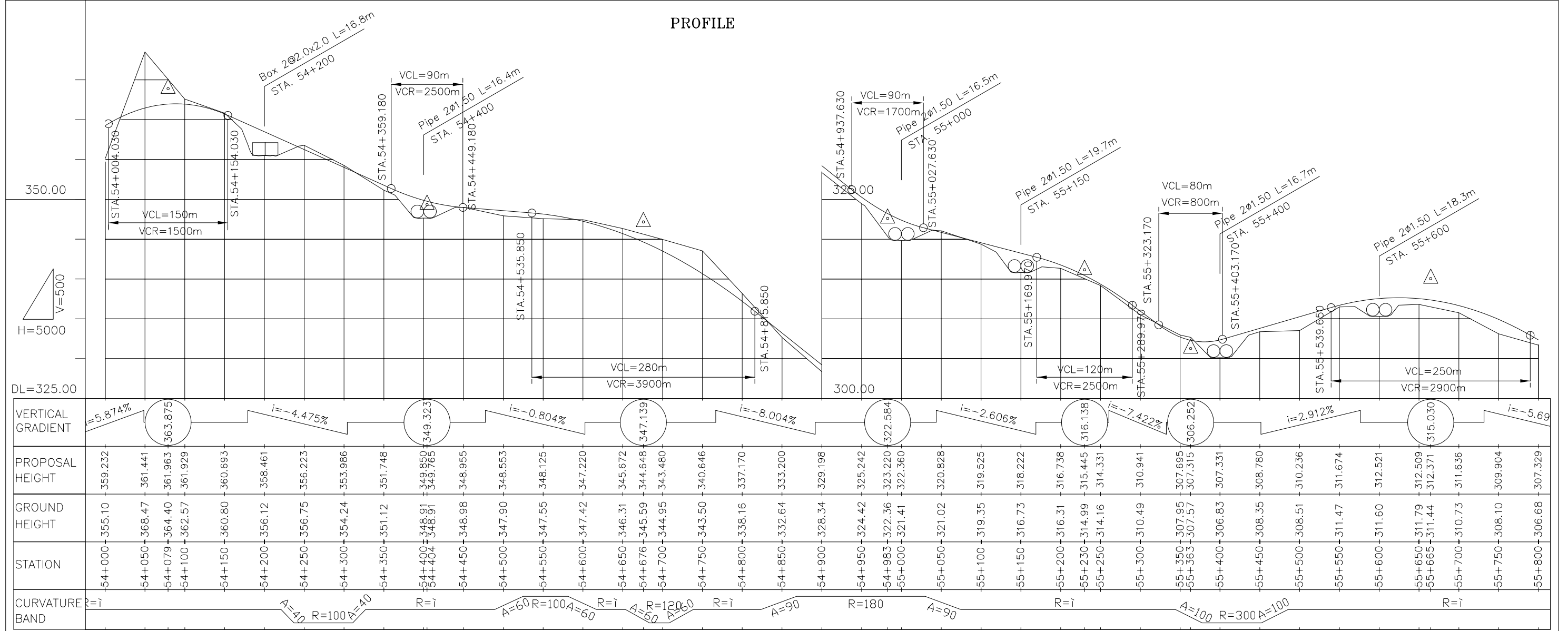


VERTICAL GRADIENT	PROPOSAL HEIGHT	GROUND HEIGHT	STATION	CURVATURE BAND
$i=4.712\%$	284.647	284.05	-52+200	A=200
	287.004	286.23	-52+250	R=300
	289.360	288.85	-52+300	A=200
	291.716	291.24	-52+350	R=300
	293.903	293.17	-52+400	A=200
	295.312	295.00	-52+450	R=300
	296.479	296.64	-52+488	A=200
	296.870	296.59	-52+500	R=300
	298.858	298.96	-52+550	A=200
	301.070	300.14	-52+600	R=300
	302.033	300.74	-52+619	A=200
	303.735	301.93	-52+650	R=300
	306.790	315.75	-52+700	A=200
	309.834	310.70	-52+750	R=300
	312.739	312.79	-52+800	A=200
	313.339	313.13	-52+810	R=300
	315.503	314.92	-52+850	A=200
	318.126	317.79	-52+900	R=300
	320.653	320.38	-52+950	A=200
	323.177	323.88	-53+000	R=300
	325.700	325.45	-53+050	A=200
	328.224	328.05	-53+100	R=300
	330.748	329.72	-53+150	A=200
	333.241	331.70	-53+200	R=300
	335.649	339.20	-53+250	A=200
	337.970	348.96	-53+300	R=300
	338.350	347.43	-53+308	A=200
	340.205	341.44	-53+350	R=300
	342.354	341.33	-53+400	A=200
	344.417	343.50	-53+450	R=300
	346.425	345.65	-53+500	A=200
	348.431	347.60	-53+550	R=300
	350.437	349.51	-53+600	A=200
	352.444	351.42	-53+650	R=300
	354.151	353.72	-53+700	A=200
	354.842	354.43	-53+728	R=300
	355.183	354.89	-53+750	A=200
	355.539	355.81	-53+800	R=300
	355.516	359.29	-53+850	A=200
	355.550	358.49	-53+900	R=300
	356.244	355.71	-53+936	A=200
	356.680	354.84	-53+950	R=300
	359.232	355.10	-54+000	A=200

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R.	DESIGNED BY
					RT.16A	CHECKED BY
					PLAN & PROFILE	APPROVED BY
					STA. 52+200.000 TO 54+000.000	DWG. NO.
						R16-PP-030



PROFILE



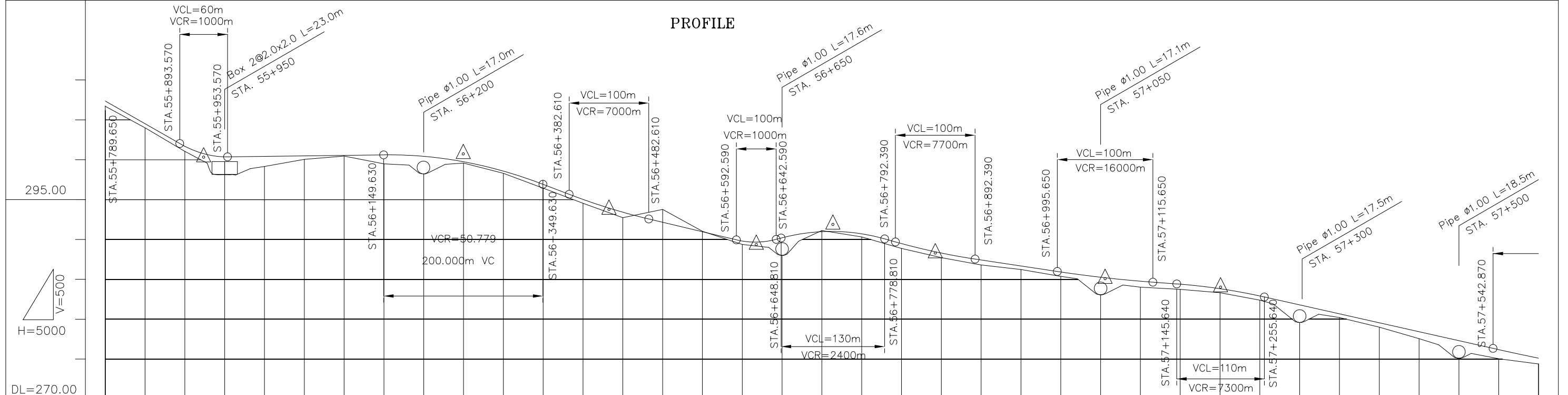
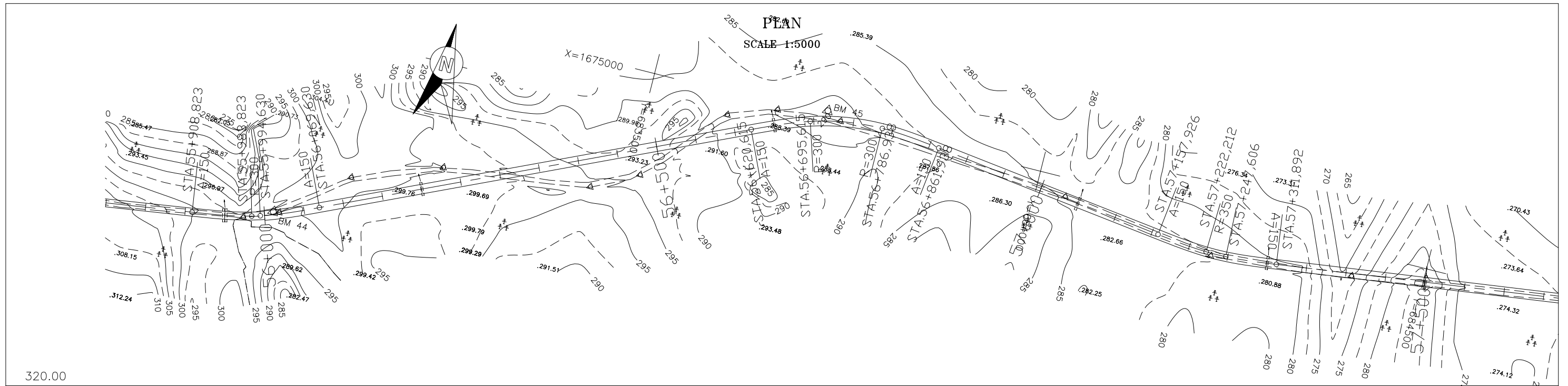
THE LAO PEOPLE'S DEMOCRATIC REPUBLIC
MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION

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

No.	REVISION	DATE
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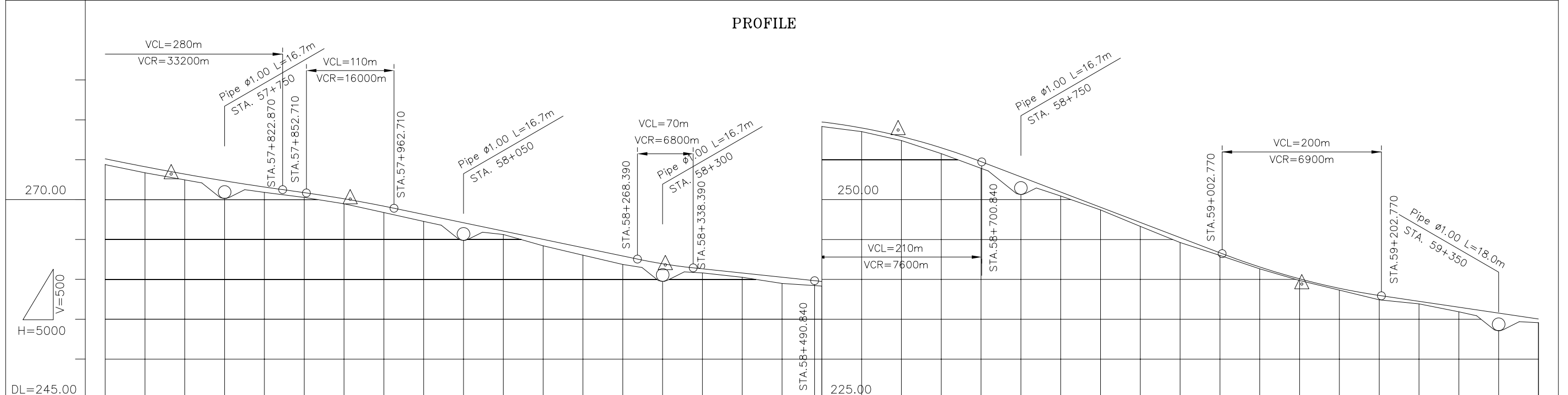
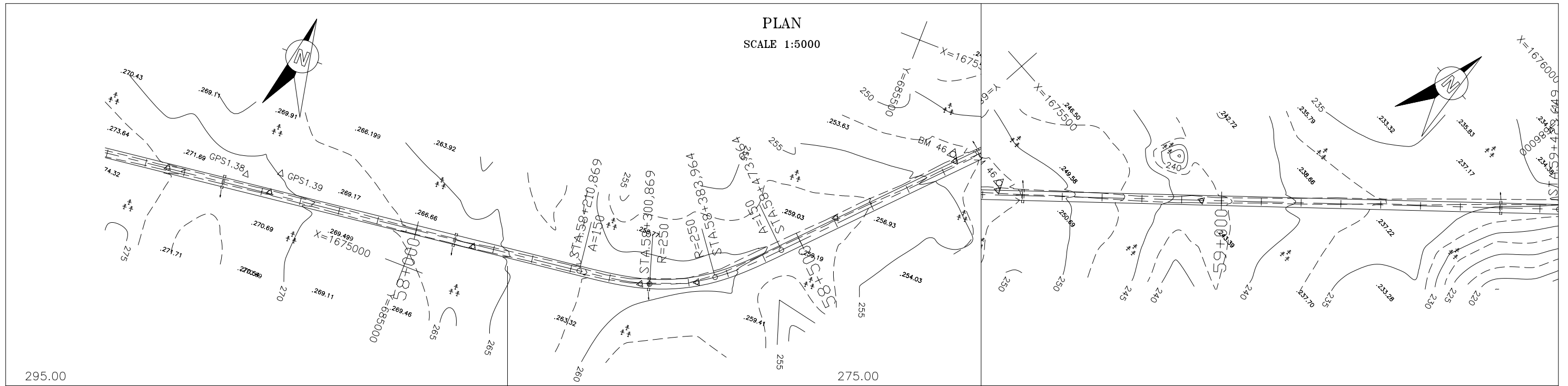
THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R.
RT.16A
PLAN & PROFILE
STA. 54+000.000 TO 55+800.000

DESIGNED BY	CHECKED BY	APPROVED BY
DWG. NO.	R16-PP-031	



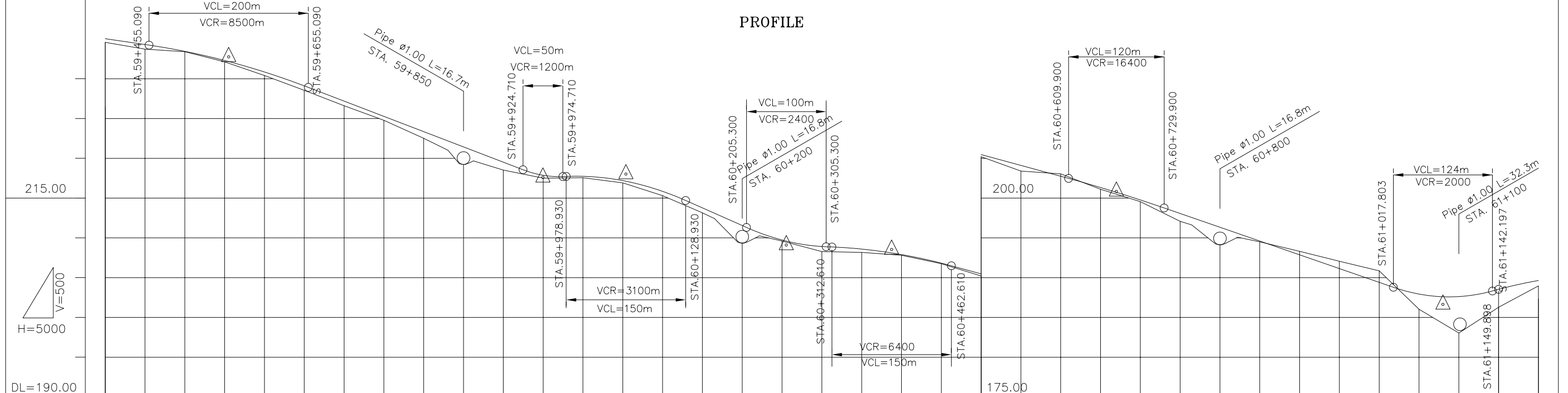
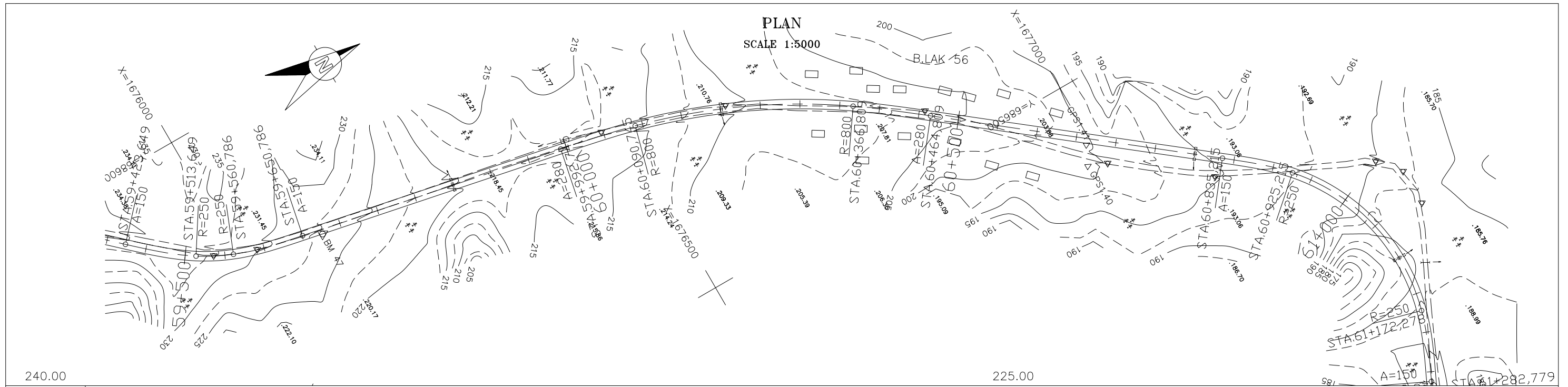
STATION	PROPOSAL HEIGHT	GROUND HEIGHT	VERTICAL GRADIENT	CURVATURE BAND
55+800	307.329	306.68	-5.690%	A=150R=300A=150
55+850	304.485	303.98		
55+900	301.660	301.02		
55+924	300.764	300.299		
55+950	300.338	299.74		
56+000	300.395	299.13	i=0.126%	R=i
56+050	300.458	300.02		
56+100	300.521	300.43		
56+150	300.584	299.45		
56+200	300.398	299.21		
56+250	299.719	299.55	i=-3.812%	A=150 R=300 A=150
56+300	298.547	298.27		
56+350	296.884	296.41		
56+400	294.999	294.51		
56+433	293.943	293.734		
56+450	293.397	292.70		R=i
56+500	292.131	293.75		
56+550	290.942	291.00		
56+600	289.781	289.35		
56+618	289.677	289.03		
56+650	290.187	288.80		A=150R=350A=150
56+700	290.957	291.10		
56+714	291.014	290.83		
56+750	290.682	290.30		
56+800	289.461	288.85		
56+842	288.463	287.85		
56+850	288.274	287.70		
56+900	287.405	286.78		
56+950	286.653	286.21		
57+000	285.901	285.36		
57+050	285.243	284.60		
57+056	285.208	284.52		
57+100	284.746	284.00		
57+150	284.371	283.72		
57+200	283.803	283.30		
57+250	282.882	282.36		
57+300	281.772	280.97		
57+350	280.651	280.19		
57+400	279.529	278.98		
57+450	278.407	277.54		
57+500	277.286	275.98		
57+550	276.165	275.03		
57+600	275.092	274.37		

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 55+800.000 TO 57+600.000	DESIGNED BY	
						APPROVED BY	
					DWG. NO.	R16-PP-032	



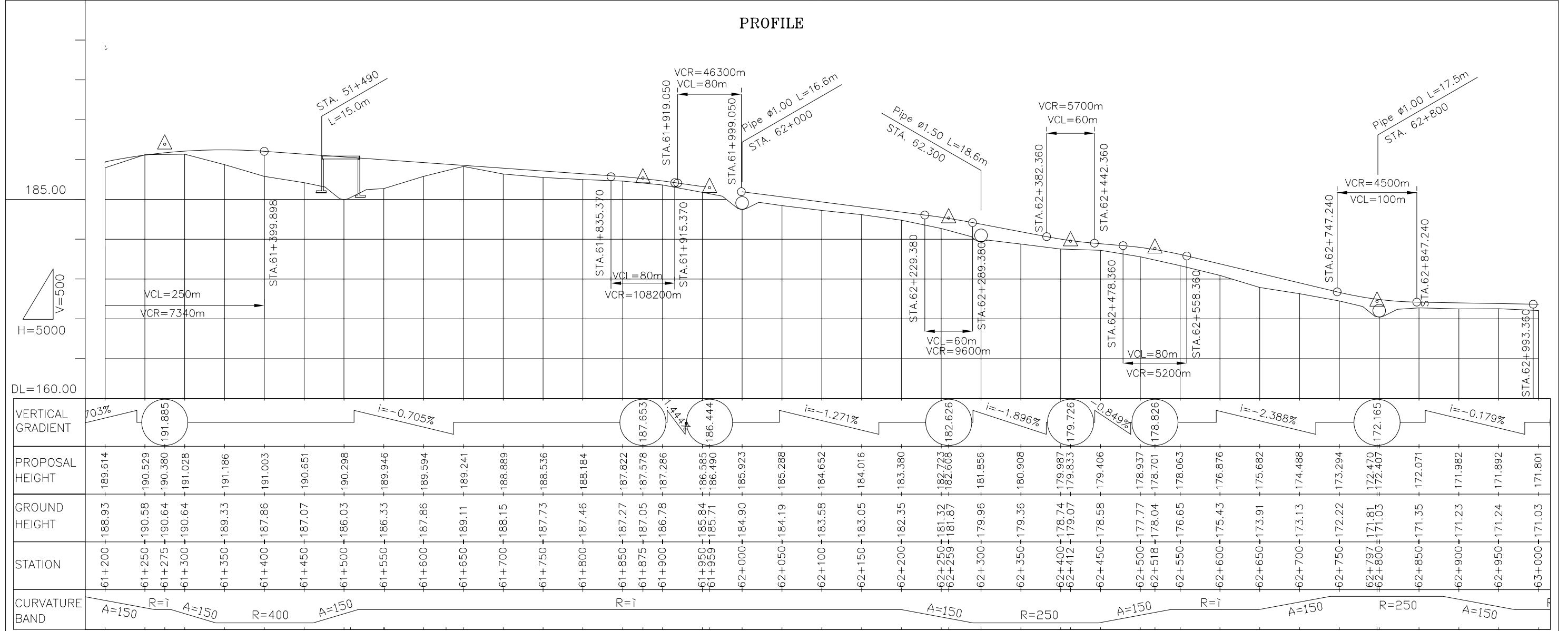
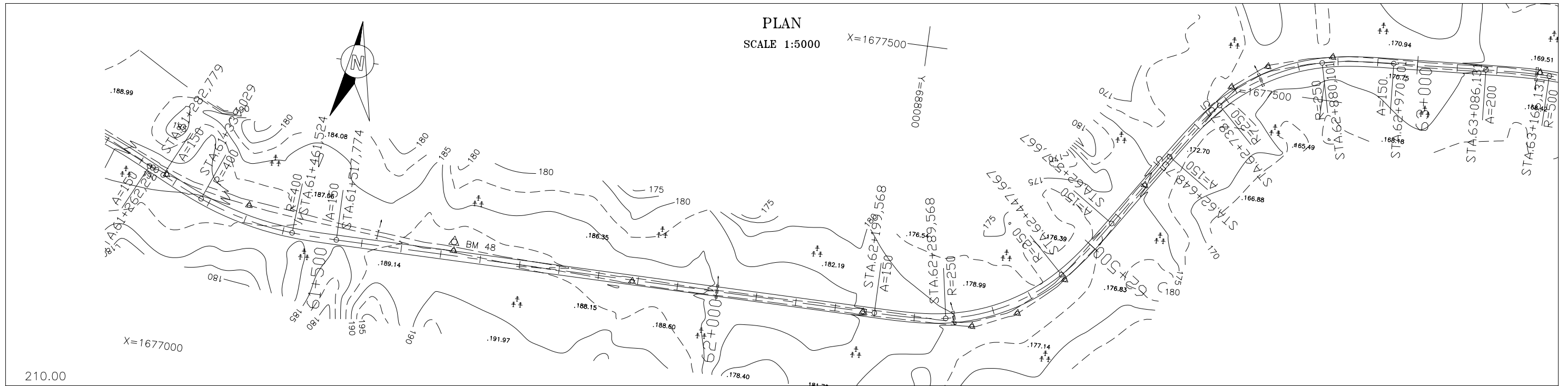
STATION	PROPOSAL HEIGHT	GROUND HEIGHT	VERTICAL GRADIENT
57+600	275.092	274.37	i = -1.399%
57+650	274.094	273.34	
57+683	273.508	272.74	
57+700	273.172	272.45	
57+750	272.325	271.56	i = -2.085%
57+800	271.553	270.88	
57+850	270.846	270.24	i = -1.054%
57+900	270.076	269.46	
57+908	269.973	269.27	i = -3.810%
57+950	269.151	268.35	
58+000	268.114	267.24	i = -1.473%
58+050	267.071	266.16	
58+100	266.029	265.60	
58+150	264.986	264.19	
58+200	263.943	263.01	
58+250	262.901	261.84	
58+300	261.932	261.05	
58+303	261.907	261.05	
58+350	261.296	260.79	
58+400	260.769	260.23	
58+450	260.241	259.46	
58+500	259.709	259.14	
58+550	258.957	258.50	
58+586	257.46	257.46	
58+600	257.878	257.58	
58+650	256.470	255.74	
58+700	254.735	253.90	
58+750	252.829	252.06	
58+800	250.924	250.43	
58+850	249.019	248.68	
58+900	247.114	246.62	
58+950	245.209	244.59	
59+000	243.303	242.98	
59+050	241.528	241.30	
59+100	240.045	239.83	
59+103	240.001	239.74	
59+150	238.854	238.63	
59+200	237.955	237.41	
59+250	237.218	236.90	
59+300	236.481	235.91	
59+350	235.745	234.80	
59+400	235.008	234.54	

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 57+600.000 TO 59+400.000	DESIGNED BY CHECKED BY APPROVED BY DWG. NO. R16-PP-033
No. REVISION DATE			



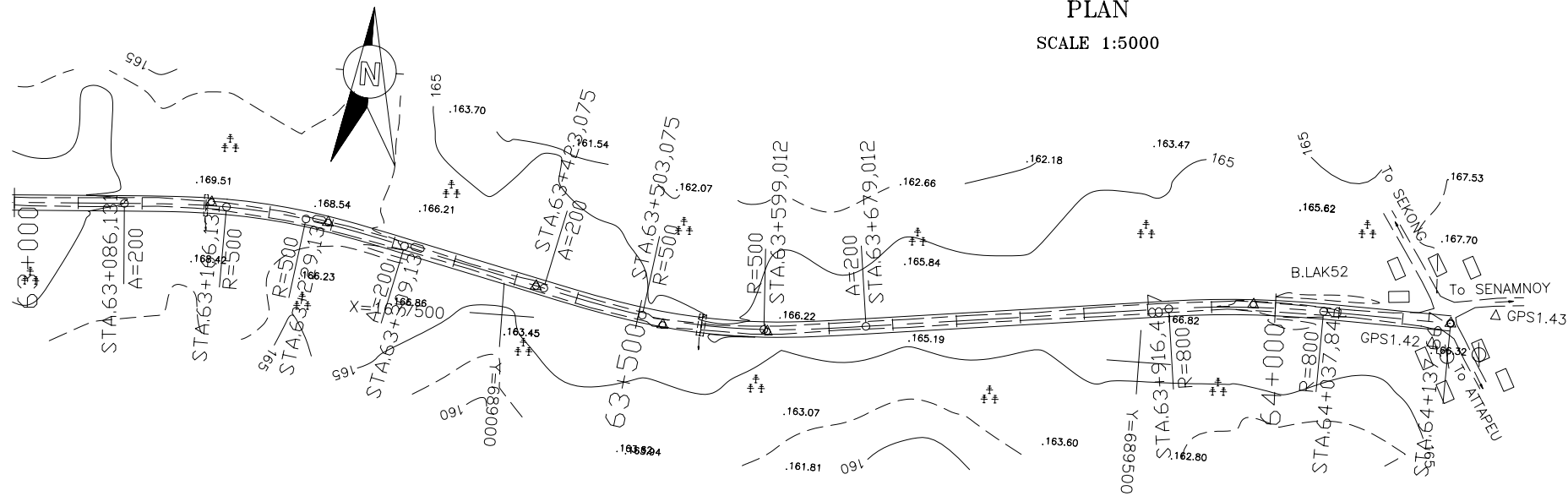
VERTICAL GRADIENT	$i = -3.837\%$ $i = 0.399\%$ $i = -4.433\%$ $i = -0.420\%$ $i = -2.729\%$ $i = -3.461\%$ $i = 2.703\%$																																									
PROPOSAL HEIGHT	235.008	234.271	233.415	232.265	230.820	229.079	227.162	225.243	223.324	221.406	219.487	217.839	217.709	217.166	209.070	208.514	206.799	205.447	204.082	202.717	201.304	200.729	199.740	198.037	196.307	194.576	192.846	191.115	189.385	187.911	186.616	185.508	184.614									
GROUND HEIGHT	234.54	233.69	233.38	232.09	230.38	228.52	226.58	224.75	222.49	220.03	218.49	217.48	217.53	216.88	209.58	208.110	206.73	205.18	203.37	203.02	201.08	200.44	199.53	197.06	195.51	195.21	194.48	193.29	192.04	191.15	189.83	186.00	184.24	183.02	182.25	181.88.93						
STATION	59+400	59+450	59+500	59+550	59+600	59+650	59+700	59+750	59+800	59+850	59+900	59+950	60+000	60+050	60+100	60+150	60+200	60+250	60+300	60+350	60+388	60+400	60+450	60+500	60+550	60+600	60+650	60+670	60+700	60+750	60+800	60+835	60+850	60+900	60+950	60+961	61+000	61+050	61+080	61+100	61+150	61+200
CURVATURE BAND	A=150		R=250		A=150		R=i										A=280		R=800				A=280		R=i		A=150				R=250		A=i									

THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	No.	REVISION	DATE	THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A	DESIGNED BY
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PLAN & PROFILE						APPROVED BY
STA. 59+400.000 TO 61+200.000						DWG. NO.
						R16-PP-034

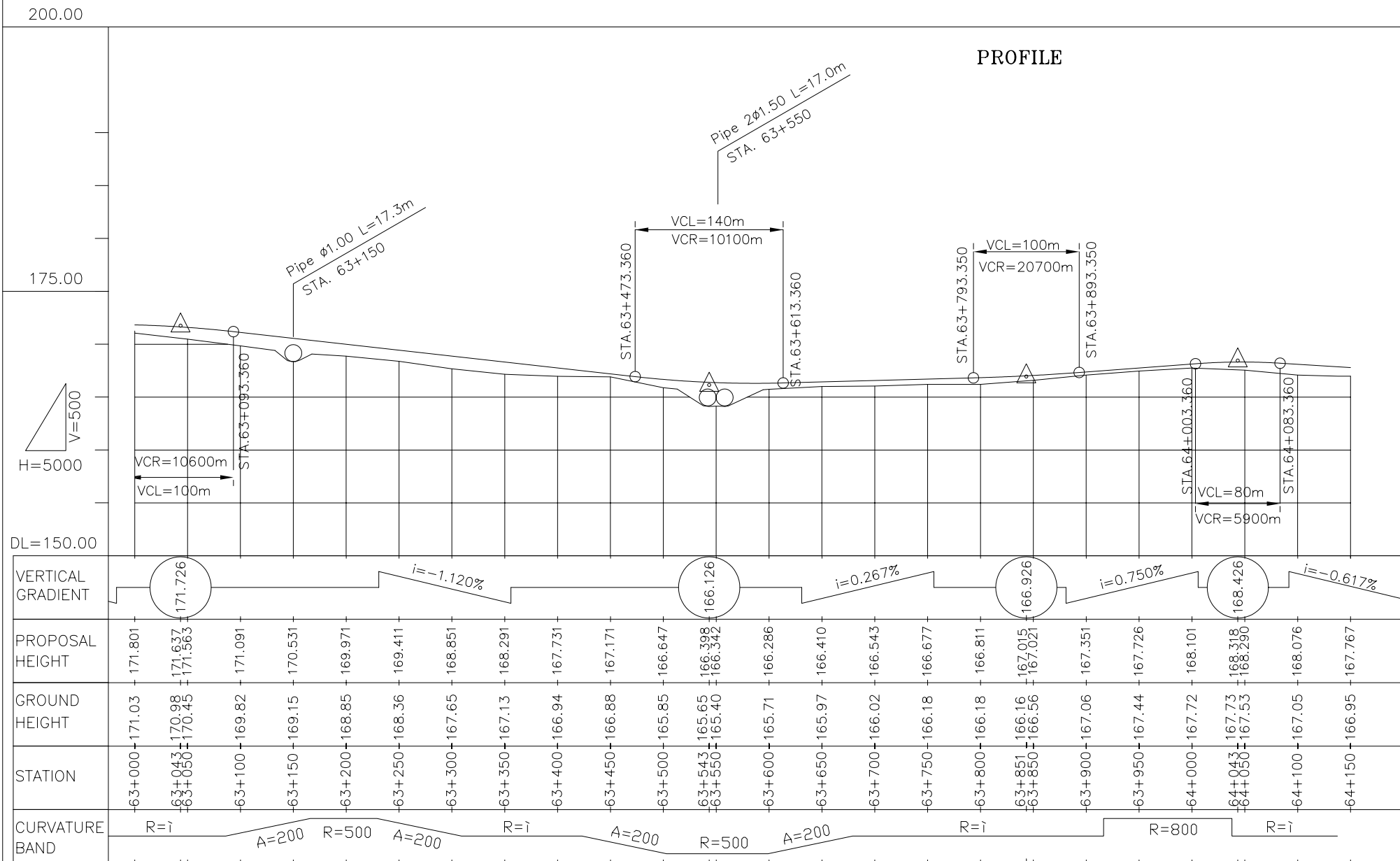


THE LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION TRANSPORT, POST AND CONSTRUCTION	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS COMPANY LIMITED & PADECO COMPANY LIMITED	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">No.</td> <td style="width: 40%;">REVISION</td> <td style="width: 50%;">DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	REVISION	DATE				THE STUDY ON IMPROVEMENT OF ROADS IN THE SOUTHERN REGION IN LAO P.D.R. RT.16A PLAN & PROFILE STA. 61+200.000 TO 63+000.000	DESIGNED BY CHECKED BY APPROVED BY	DWG. NO. R16-PP-035
No.	REVISION	DATE									

PLAN
SCALE 1:5000



PROFILE



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

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

No.	REVISION	DATE

THE STUDY ON IMPROVEMENT OF ROADS IN
THE SOUTHERN REGION IN LAO P.D.R.
RT.16A PLAN & PROFILE
STA. 63+000.000 TO 64+137.667

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DWG. NO.	R16-PP-036