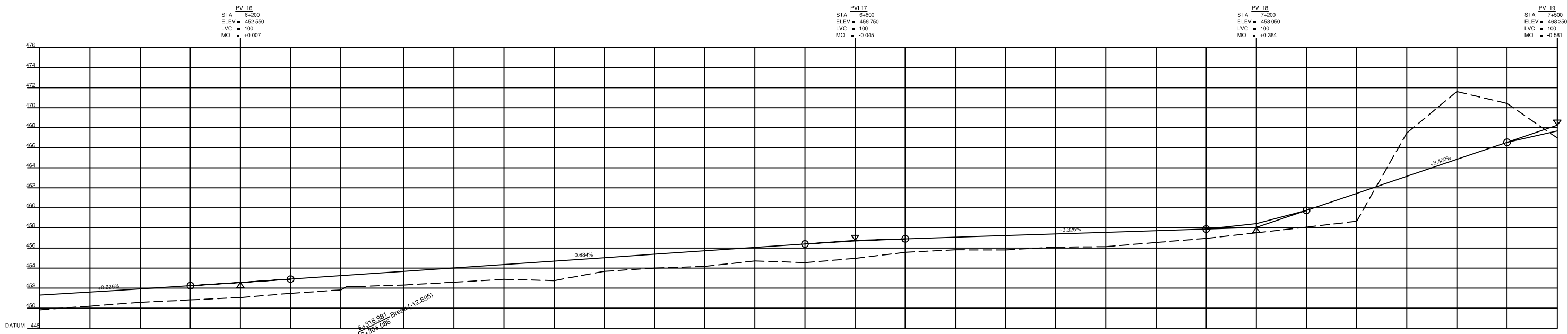


PI # 5	
N	
E	
I	5° 32' 27"
R	2400.000
T	116.140
E	2.808
Lc	232.100

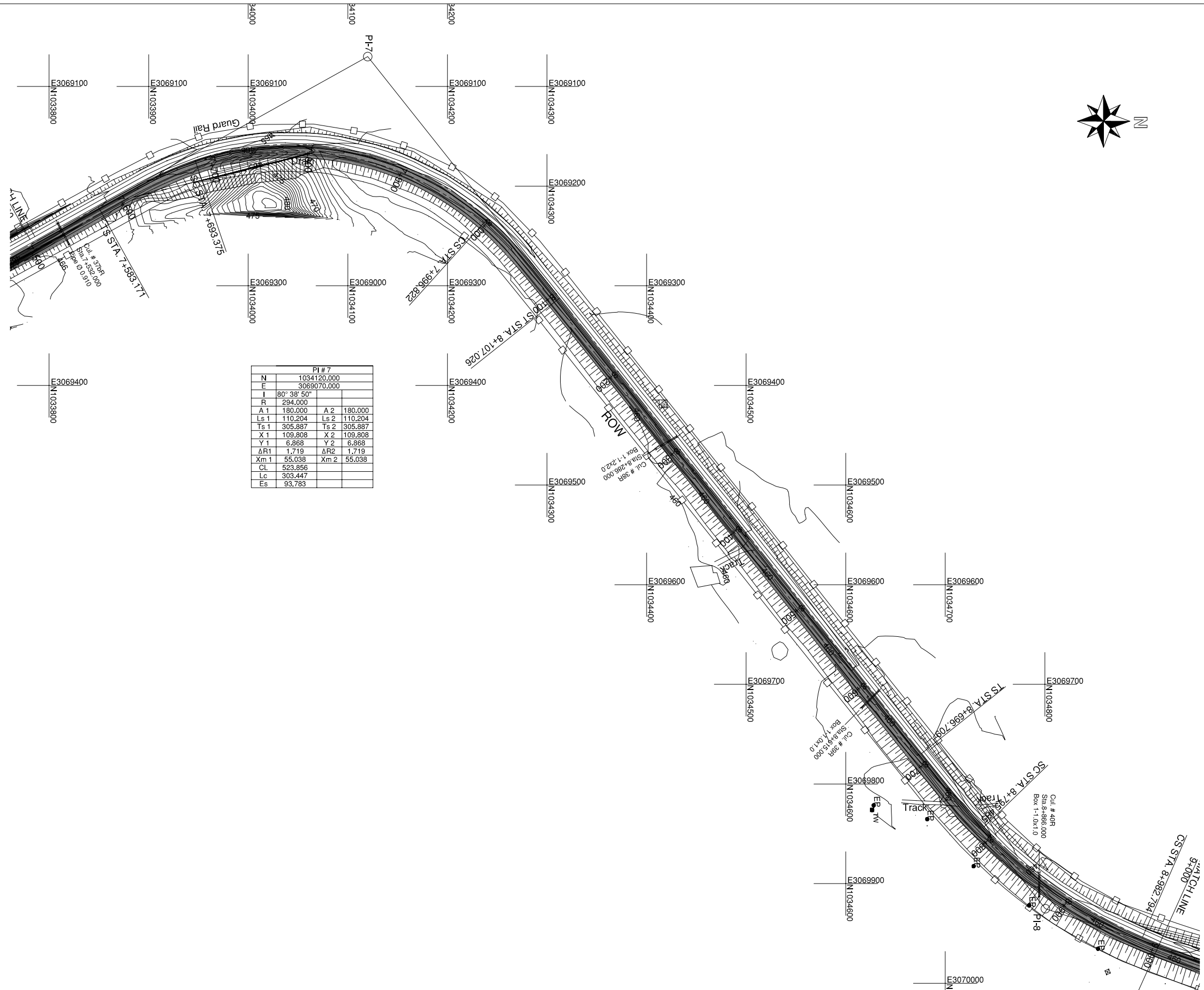
PI # 6			
N	1033240.000		
E	3069560.000		
I	101° 59' 1"		
R	296.000		
A 1	180.000	A 2	180.000
Ls 1	109.459	Ls 2	109.459
Ts 1	422.170	Ts 2	422.170
X 1	109.086	X 2	109.086
Y 1	6.730	Y 2	6.730
ΔR1	1.685	ΔR2	1.685
Xm 1	54.867	Xm 2	54.867
CL	636.325		
Lc	417.408		
Es	176.942		

PROJECT NAME	CLIENTS	CONSULTANTS	DRAWING TITLE	SCALE	DWG NO
FEASIBILITY STUDY ON THE 2ND KOHAT TUNNEL AND ACCESS ROADS PROJECT	 GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	 JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD AND ALMEC CORPORATION	PLAN 6+000 - 7+500	1:2,000 R-5

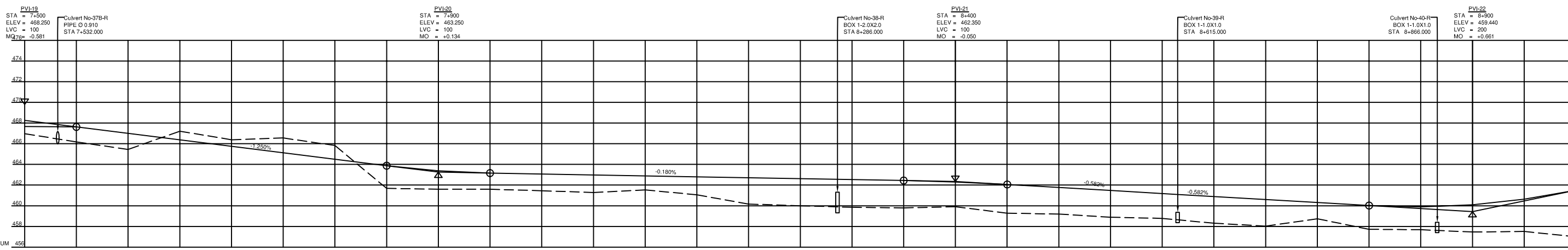


FINISHED ROAD ELEVATIONS	6+000 449.835	6+050 450.191	6+100 450.569	6+150 450.819	6+200 451.054	6+250 451.474	6+300 451.815	6+350 452.308	6+400 452.586	6+450 452.870	6+500 452.745	6+550 453.672	6+600 453.991	6+650 454.159	6+700 454.708	6+750 454.534	6+800 454.964	6+850 455.570	6+900 455.816	6+950 455.809	Z+000 456.088	Z+050 456.130	Z+100 456.549	Z+150 456.960	Z+200 457.519	Z+250 458.082	Z+300 458.668	Z+350 467.468	Z+400 471.607	Z+450 470.423	7+500 466.975
EXISTING ROAD/ GROUND ELEVATIONS	449.835	450.191	450.569	450.819	451.054	451.474	451.815	452.308	452.586	452.870	452.745	453.672	453.991	454.159	454.708	454.534	454.964	455.570	455.816	455.809	456.088	456.130	456.549	456.960	457.519	458.082	458.668	467.468	471.607	470.423	466.975
CUMULATIVE DISTANCE (GD)	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
HORIZONTAL ALIGNMENT	R = ∞		R = 2500				R = ∞				R = 250										R = ∞										
SUPPER GRADE ELEVATION	N.C.															N.C.										N.C.					
% GRADE	N.C.															N.C.										N.C.					

PROJECT NAME	CLIENTS	CONSULTANTS	DRAWING TITLE	SCALE	DWG NO
FEASIBILITY STUDY ON THE 2ND KOHAT TUNNEL AND ACCESS ROADS PROJECT	GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD AND ALMEC CORPORATION	H=1:2,000 V=1:200	R-5a

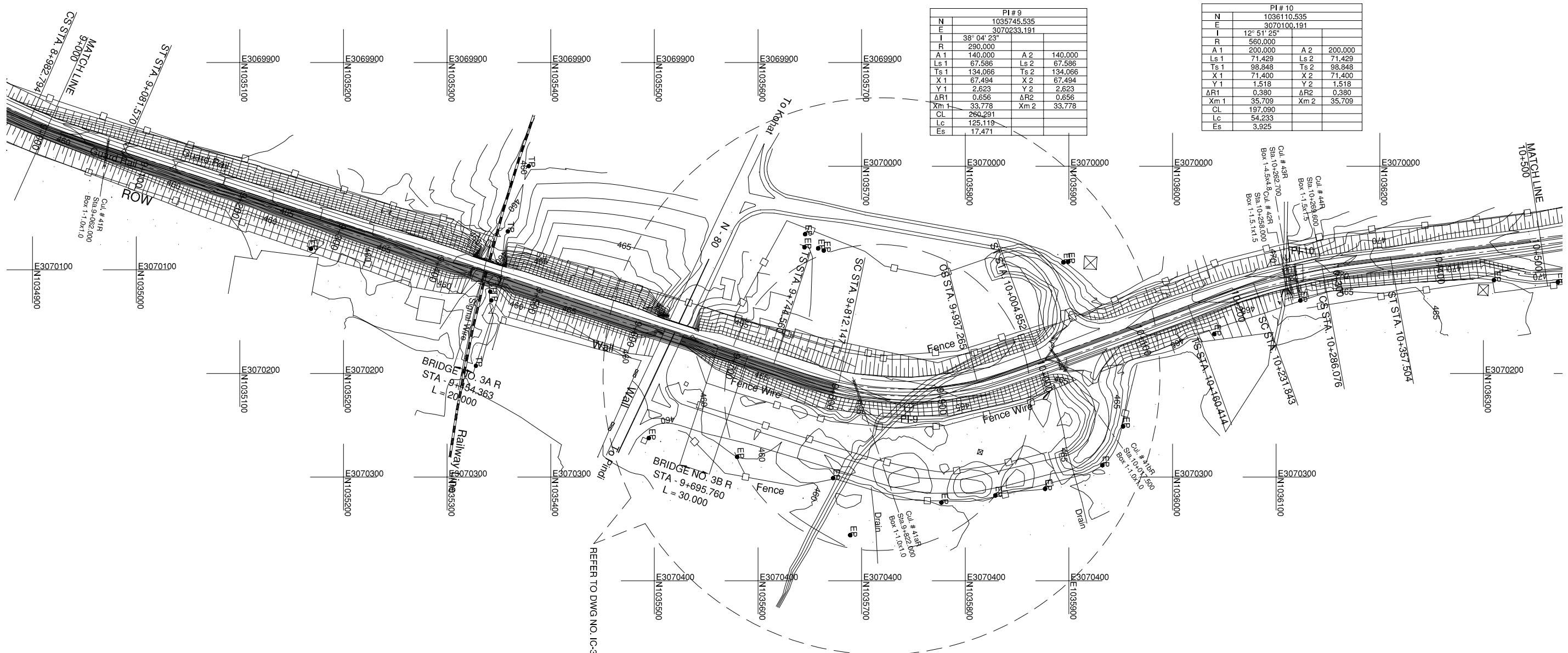


PROJECT NAME	CLIENTS		CONSULTANTS	DRAWING TITLE	SCALE	DWG NO
FEASIBILITY STUDY ON THE 2ND KOHAT TUNNEL AND ACCESS ROADS PROJECT	 GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	 JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD AND ALMEC CORPORATION	PLAN 7+500 - 9+000	1:2,000	R-6



FINISHED ROAD ELEVATIONS	466.975	467.625		466.375		465.125		463.875		463.160		462.800		462.620		462.530		462.440		462.300		462.059		461.768		461.477		461.186		460.895		460.604		460.313		460.022		459.896		459.637		459.503				
EXISTING ROAD / GROUND ELEVATIONS	466.975	466.167	467.000	467.000	466.375	465.750	465.125	464.500	463.875	463.384	462.800	462.216	461.632	461.048	460.464	459.880	459.296	458.712	458.128	457.544	456.960	456.376	455.792	455.208	454.624	454.040	453.456	452.872	452.288	451.704	451.120	450.536	449.952	449.368	448.784	448.200	447.616	447.032	446.448	445.864	445.280	444.696	444.112	443.528		
CUMULATIVE DISTANCE (CD)	Z+500	Z+550	Z+600	Z+650	Z+700	Z+750	Z+800	Z+850	Z+900	Z+950	Z+1000	Z+1050	Z+1100	Z+1150	Z+1200	Z+1250	Z+1300	Z+1350	Z+1400	Z+1450	Z+1500	Z+1550	Z+1600	Z+1650	Z+1700	Z+1750	Z+1800	Z+1850	Z+1900	Z+1950	Z+2000	Z+2050	Z+2100	Z+2150	Z+2200	Z+2250	Z+2300	Z+2350	Z+2400	Z+2450	Z+2500	Z+2550	Z+2600	Z+2650	Z+2700	
HORIZONTAL ALIGNMENT	R = ∞		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294		R = 294			
SUPPER GRADE ELEVATION % AGE	N.C.		L		L		L		L		L		L		L		L		L		L		L		L		L		L		L		L		L		L		L		L		L		L	

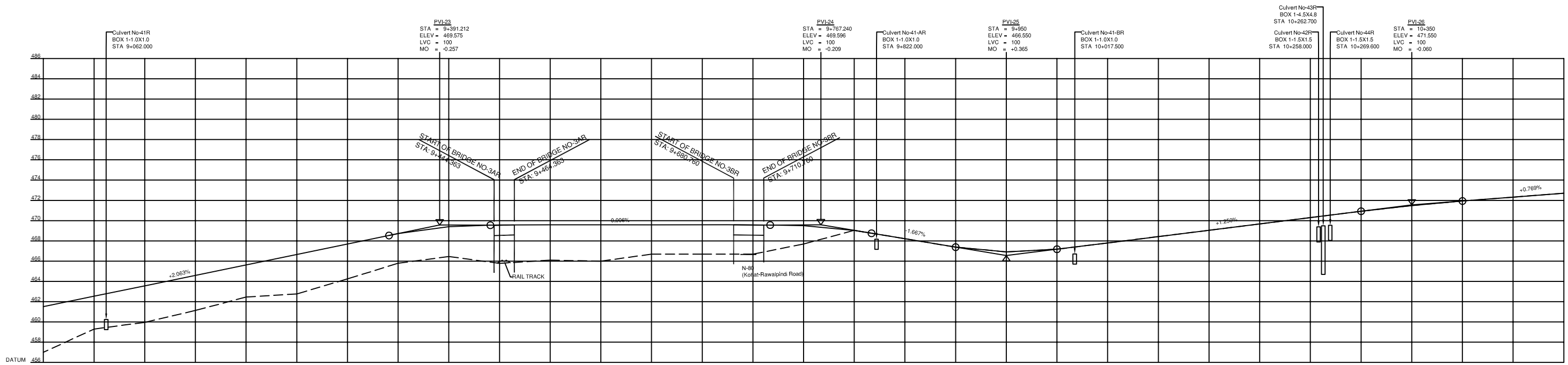
PROJECT NAME	CLIENTS	CONSULTANTS	DRAWING TITLE	SCALE	DWG NO
FEASIBILITY STUDY ON THE 2ND KOHAT TUNNEL AND ACCESS ROADS PROJECT	 GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	 JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD AND ALMEC CORPORATION	PROFILE 9+000 - 10+500 H=1:2,000 V=1:200	R-6a



PI # 9			
N	1035745.535		
E	3070233.191		
I	38° 04' 23"		
R	290.000		
A 1	140.000	A 2	140.000
Ls 1	67.586	Ls 2	67.586
Ts 1	134.066	Ts 2	134.066
X 1	67.494	X 2	67.494
Y 1	2.623	Y 2	2.623
ΔR1	0.656	ΔR2	0.656
Xm 1	33.778	Xm 2	33.778
CL	260.291		
Lc	125.119		
Es	17.471		

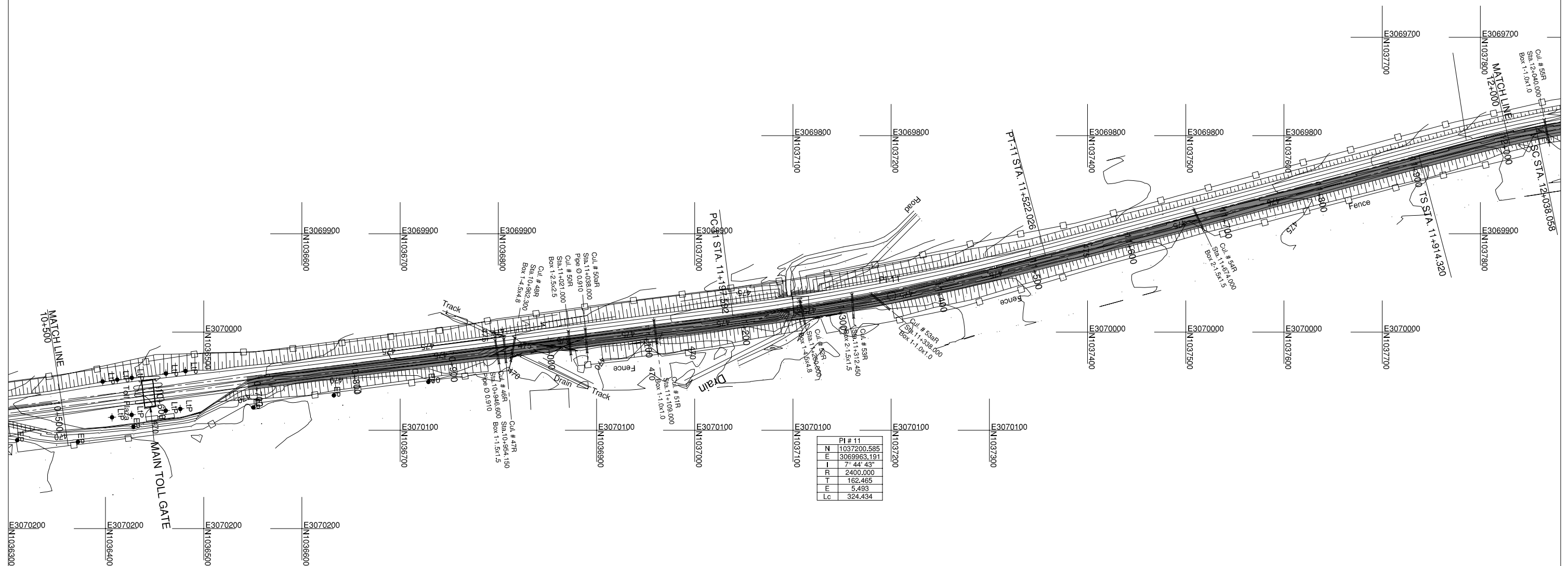
PI # 10			
N	1036110.535		
E	3070100.191		
I	12° 51' 25"		
R	560.000		
A 1	200.000	A 2	200.000
Ls 1	71.429	Ls 2	71.429
Ts 1	98.848	Ts 2	98.848
X 1	71.400	X 2	71.400
Y 1	1.518	Y 2	1.518
ΔR1	0.380	ΔR2	0.380
Xm 1	35.709	Xm 2	35.709
CL	197.090		
Lc	54.233		
Es	3.925		

PROJECT NAME	CLIENTS	CONSULTANTS	DRAWING TITLE	SCALE	DWG NO
FEASIBILITY STUDY ON THE 2ND KOHAT TUNNEL AND ACCESS ROADS PROJECT	 GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	 JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD AND ALMEC CORPORATION	PLAN 9+000 - 10+500	1:2,000 R-7

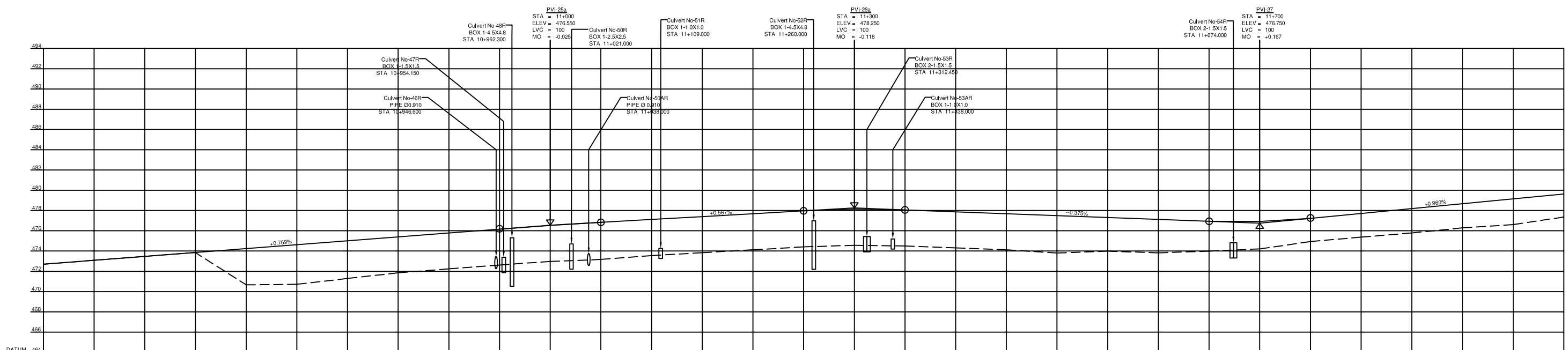


FINISHED ROAD ELEVATIONS	9+000	9+050	9+100	9+150	9+200	9+250	9+300	9+350	9+400	9+450	9+500	9+550	9+600	9+650	9+700	9+750	9+800	9+850	9+900	9+950	10+000	10+050	10+100	10+150	10+200	10+250	10+300	10+350	10+400	10+450	10+500	
EXISTING ROAD / GROUND ELEVATIONS	457.000	459.298	459.958	461.130	462.458	462.765	464.245	465.750	466.456	465.780	466.100	466.000	466.688	466.689	466.680	467.684	469.025	468.217	467.383	466.915	467.175	467.800	468.425	469.050	469.675	470.300	470.925	471.490	471.935	472.319	472.704	
CUMULATIVE DISTANCE (CD)	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	10+000	10+050	10+100	10+150	10+200	10+250	10+300	10+350	10+400	10+450	10+500	
HORIZONTAL ALIGNMENT	R = ∞																R = 290						R = ∞				R = 500				R = ∞	
SUPPER GRADE ELEVATION % AGE	N.C.																-0.9%						N.C.				+2.2%				N.C.	

PROJECT NAME	CLIENTS	CONSULTANTS	DRAWING TITLE	SCALE	DWG NO
FEASIBILITY STUDY ON THE 2ND KOHAT TUNNEL AND ACCESS ROADS PROJECT	 GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	 JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD AND ALMEC CORPORATION	PROFILE 9+000 - 10+500 H=1:2,000 V=1:200	R-7a



PROJECT NAME	CLIENTS		CONSULTANTS	DRAWING TITLE	SCALE	DWG NO
FEASIBILITY STUDY ON THE 2ND KOHAT TUNNEL AND ACCESS ROADS PROJECT	 GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	 JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD AND ALMEC CORPORATION	PLAN 10+500 - 12+000	1:2,000	R-8



FINISHED ROAD ELEVATIONS	10+500	10+550	10+600	10+650	10+700	10+750	10+800	10+850	10+900	10+950	11+000	11+050	11+100	11+150	PC	11+194.789	11+200	11+250	11+300	11+350	11+400	11+450	11+500	PT	11+519.201	11+550	11+600	11+650	11+700	11+750	11+800	11+850	11+900	TS	11+914.32	11+950	12+000
EXISTING ROAD / GROUND ELEVATIONS	472.704	473.088	473.473	473.858	474.242	474.627	475.011	475.396	475.781	476.165	476.525	476.833	477.117	477.400		477.683		477.967	478.132	478.063	477.875	477.688	477.500		477.313	477.125	476.938	476.917	477.230	477.710	478.190	478.670		479.150	479.630		
CUMULATIVE DISTANCE (CD)	10+500	10+550	10+600	10+650	10+700	10+750	10+800	10+850	10+900	10+950	11+000	11+050	11+100	11+150	PC	11+194.789	11+200	11+250	11+300	11+350	11+400	11+450	11+500	PT	11+519.201	11+550	11+600	11+650	11+700	11+750	11+800	11+850	11+900	TS	11+914.32	11+950	12+000
HORIZONTAL ALIGNMENT	R = ∞		R = ∞																	R = 200					R = ∞												
SUPPER GRADE ELEVATION % AGE	N.C.		N.C.																	N.C.					N.C.												

PROJECT NAME	CLIENTS	CONSULTANTS	DRAWING TITLE	SCALE	DWG NO
FEASIBILITY STUDY ON THE 2ND KOHAT TUNNEL AND ACCESS ROADS PROJECT	 GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	 JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD AND ALMEC CORPORATION	PROFILE 10+500 - 12+000 H=1:2,000 V=1:200	R-8a