

CARRIAGEWAY SETTING OUT

ALIGNMENT ROAD 1									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SP1-1	0.000	347434.330	390277.028	46.551		81.71413			
CP1-1	10.000	347444.225	390278.469	46.442					
CP1-2	20.000	347454.121	390279.910	46.442					
CP1-3	30.000	347464.016	390281.352	46.551					
CP1-4	40.000	347473.912	390282.793	46.676					
CP1-5	50.000	347483.808	390284.234	46.801					
CP1-6	60.000	347493.703	390285.675	46.926					
CP1-7	70.000	347503.599	390287.116	47.051					
CP1-8	80.000	347513.495	390288.557	47.143					
CP1-9	90.000	347523.390	390289.998	47.114					
CP1-10	100.000	347533.286	390291.439	46.994					
CP1-11	110.000	347543.181	390292.881	46.869					
TP1-1a	119.069	347552.156	390294.187	46.755		81.71413			
IP1-1		347514.656	390297.470		100.000		25.66222	44.789	22.777
CP1-12	129.000	347563.078	390294.317	46.744					
CP1-13	130.000	347563.037	390295.169	46.619					
CP1-14	140.000	347573.032	390295.022	46.494					
CP1-15	150.000	347582.962	390293.878	46.369					
CP1-16	160.000	347592.728	390291.749	46.244					
EP1-1	163.858	347596.432	390290.668	46.196		107.37635			

ALIGNMENT ROAD 2									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
JP2-1	0.000	347470.883	390282.352			351.71413			
CP2-1	10.000	347469.442	390282.247	46.788					
CP2-2	20.000	347468.001	390302.143	46.955					
TP2-1a	22.947	347467.577	390305.059	47.005		351.71413			
IP2-1		347466.524	390312.285		60.000		13.87909	14.534	7.303
CP2-3	30.000	347469.972	390312.082	47.123					
TP2-1b	37.441	347467.236	390319.653	47.248		5.59322			
CP2-4	40.000	347467.481	390322.001	47.290					
CP2-5	50.000	347468.456	390332.013	47.476					
CP2-6	60.000	347469.431	390341.965	47.804					
CP2-7	70.000	347470.405	390351.918	48.280					
CP2-8	80.000	347471.380	390361.870	48.780					
CP2-9	90.000	347472.355	390371.823	49.280					
CP2-10	100.000	347473.329	390381.775	49.780					
CP2-11	110.000	347474.304	390391.727	50.280					
CP2-12	120.000	347475.279	390401.680	50.780					
CP2-13	130.000	347476.253	390411.632	51.280					
CP2-14	140.000	347477.228	390421.584	51.780					
CP2-15	150.000	347478.203	390431.537	52.265					
TP2-2a	155.721	347478.760	390437.231	52.419		5.59322			
IP2-2		347479.675	390446.572		65.000		16.43262	18.642	9.386
CP2-16	160.000	347479.317	390441.472	52.445					
CP2-17	170.000	347481.686	390451.175	52.222					
TP2-2b	174.363	347483.195	390455.272	52.076		22.02584			
CP2-18	180.000	347485.309	390460.497	51.887					
JP2-2	187.398	347488.083	390467.355			22.02584			

ALIGNMENT ROAD 3									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
JP3-1	0.000	347473.119	390379.629			275.61067			
CP3-1	10.000	347463.167	390380.607	49.422					
CP3-2	20.000	347453.215	390381.584	49.172					
EP3-1	29.049	347444.209	390382.469	48.946		275.61067			

ALIGNMENT ROAD 4									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SP4-1	0.000	347525.361	390323.108	47.140		5.61067			
CP4-1	10.000	347526.336	390333.060	47.640					
CP4-2	20.000	347527.316	390343.012	48.140					
CP4-3	30.000	347528.294	390352.964	48.640					
CP4-4	40.000	347529.272	390362.916	49.140					
CP4-5	50.000	347530.249	390372.868	49.640					
CP4-6	60.000	347531.227	390382.821	50.140					
TP4-1a	63.961	347531.585	390386.464	50.323		5.61067			
IP4-1		347532.757	390398.399		12.000		89.96522	18.842	11.993
CP4-7	70.000	347530.548	390392.643	50.608					
CP4-8	80.000	347523.270	390399.076	50.924					
TP4-1b	82.593	347520.823	390399.079	50.978		275.64545			
CP4-9	90.000	347513.363	390402.317	51.110					
CP4-10	100.000	347503.411	390401.300	51.256					
CP4-11	110.000	347493.460	390402.284	51.214					
CP4-12	120.000	347483.508	390403.268	50.988					
JP4-1	128.036	347475.512	390404.058			275.64545			

ALIGNMENT ROAD 5									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
JP5-1	0.000	347576.508	390294.736			5.70510			
TP5-1a	9.344	347577.437	390304.033	46.483		5.70510			
IP5-1		347578.652	390310.193		59.650		11.84999	12.336	6.190
CP5-1	10.000	347577.505	390304.686	46.494					
CP5-2	20.000	347579.435	390314.486	46.664					
TP5-1b	21.680	347579.919	390316.055	46.693		17.55409			
CP5-3	30.000	347582.428	390324.028	46.853					
CP5-4	40.000	347585.444	390333.562	47.184					
CP5-5	50.000	347588.460	390343.096	47.681					
CP5-6	60.000	347591.477	390352.630	48.161					
TP5-2a	66.053	347593.302	390358.401	48.464		17.55409			
IP5-2		347595.289	390364.682		25.000		29.52530	12.883	6.588
CP5-7	70.000	347594.191	390362.243	48.661					
TP5-2b	78.936	347593.923	390371.127	48.108		348.02879			
CP5-8	80.000	347593.702	390372.168	48.161					
CP5-9	90.000	347591.628	390381.951	49.661					
CP5-10	100.000	347589.553	390391.733	50.161					
TP5-3a	102.445	347589.046	390394.125	50.284		348.02879			
IP5-3		347587.658	390399.727		30.000		21.61451	11.317	5.727
CP5-11	110.000	347596.570	390401.242	50.661					
TP5-3b	113.762	347594.691	390404.498	50.850		326.41428			
CP5-12	120.000	347581.240	390409.694	51.161					
CP5-13	130.000	347575.708	390418.025	51.661					
CP5-14	140.000	347570.176	390426.356	52.024					
TP5-4a	140.741	347569.766	390426.073	52.039		326.41428			
IP5-4		347561.868	390438.868		50.000		31.87509	27.816	14.278
CP5-15	150.000	347563.961	390434.169	52.075					
CP5-16	160.000	347556.322	390440.596	51.951					
TP5-4b	168.557	347548.979	390444.798	51.844		294.33919			
CP5-17	170.000	347547.867	390445.397	51.826					
CP5-18	180.000	347538.470	390449.550	51.701					
CP5-19	190.000	347529.373	390453.703	51.576					
CP5-20	200.000	347520.276	390457.856	51.451					
TP5-5a	201.507	347518.906	390458.482	51.432		294.33919			
IP5-5		347513.811	390460.808		59.000		10.84474	11.167	5.600
CP5-21	210.000	347510.953	390461.142	51.359					
TP5-5b	212.674	347508.370	390462.134	51.355		283.69445			
CP5-22	220.000	347501.252	390463.868	51.389					
TP5-6a	228.640	347492.858	390465.914	51.492		283.69445			
IP5-6		347480.744	390468.865		46.000		30.33314	24.353	12.489
CP5-23	230.000	347491.541	390468.256	51.509					
CP5-24	240.000	347482.263	390469.932	51.634					
CP5-25	250.000	347473.996	390475.523	51.687					
TP5-6b	252.993	347471.778	390477.532	51.678		314.02759			
CP5-26	260.000	347466.740	390482.402	51.615					
CP5-27	270.000	347459.550	390489.352	51.490					
CP5-28	280.000	347452.360	390496.302	51.365					
EP5-1	281.019	347451.627	390497.010	51.352		314.02759			

JUNCTION SETTING OUT

JUNCTION DETAILS : ROAD 5 - ROAD 1 LH Side					
Curve 1	E	N	Level	Radius	
Centre O1 :	347568.661	390304.211		6.000	
Start TP1 :	347568.546	390298.212	46.476		
End TP2 :	347574.631	390303.615	46.640		

JUNCTION DETAILS : ROAD 5 - ROAD 1 RH Side					
Curve 2	E	N	Level	Radius	
Centre O2 :	347586.074	390302.472		6.000	
Start TP3 :	347585.000	390296.566	46.275		
End TP4 :	347580.104	390303.069	46.403		

TURNING HEAD SETTING OUT

TURNING HEAD DETAILS : ROAD 4 - LH Side					
Line 1	E	N	Level	Length	
Start TP1 :	347525.361	390323.108	47.140		
End TP2 :	347523.122	390323.328	47.094	2.250	
Line 2	E	N	Level	Length	
Start TP2 :	347523.122	390323.328	47.094		</