

odcinek_1_tyczenie_plan.txt

Project Name: Osiecko
Description:
Horizontal Alignment Name: plan
Description:
Style: Geom_plan

	STATION	NORTHING	EASTING
Element: Linear			
POCZĄTEK ()	0+000.00	5821206.4094	5519587.5993
PL ()	0+026.80	5821181.2053	5519596.7203
Tangent Direction:	177.90		
Tangent Length:	26.80		
Element: Circular			
PL ()	0+026.80	5821181.2053	5519596.7203
W ()	0+048.37	5821160.9252	5519604.0593
CC ()		5821351.3492	5520066.8810
KŁ ()	0+069.91	5821141.3524	5519613.1174
Radius:	500.00		
Delta:	5.49	Left	
Degree of Curvature(Arc):	12.73		
Length:	43.11		
Tangent:	21.57		
Chord:	43.09		
Middle Ordinate:	0.46		
External:	0.46		
Tangent Direction:	177.90		
Radial Direction:	277.90		
Chord Direction:	175.15		
Radial Direction:	272.41		
Tangent Direction:	172.41		
Element: Linear			
KŁ ()	0+069.91	5821141.3524	5519613.1174
PL ()	0+131.54	5821085.4216	5519639.0016
Tangent Direction:	172.41		
Tangent Length:	61.63		
Element: Circular			
PL ()	0+131.54	5821085.4216	5519639.0016
W ()	0+154.64	5821064.4555	5519648.7044
CC ()		5821135.8209	5519747.9048
KŁ ()	0+177.19	5821048.5905	5519665.4981
Radius:	120.00		
Delta:	24.22	Left	
Degree of Curvature(Arc):	53.05		
Length:	45.65		
Tangent:	23.10		
Chord:	45.37		
Middle Ordinate:	2.16		
External:	2.20		
Tangent Direction:	172.41		
Radial Direction:	272.41		
Chord Direction:	160.30		
Radial Direction:	248.19		
Tangent Direction:	148.19		
Element: Linear			
KŁ ()	0+177.19	5821048.5905	5519665.4981
PL ()	0+435.08	5820871.4928	5519852.9621
Tangent Direction:	148.19		
Tangent Length:	257.89		
Element: Circular			
PL ()	0+435.08	5820871.4928	5519852.9621
W ()	0+471.91	5820846.2005	5519879.7349
CC ()		5820617.0710	5519612.6092
KŁ ()	0+508.47	5820815.8893	5519900.6566

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	Radius:	350.00		
	Delta:	13.35	Right	
Degree of Curvature(Arc):		18.19		
	Length:	73.39		
	Tangent:	36.83		
	Chord:	73.26		
	Middle Ordinate:	1.92		
	External:	1.93		
Tangent Direction:		148.19		
Radial Direction:		248.19		
Chord Direction:		154.86		
Radial Direction:		261.54		
Tangent Direction:		161.54		
Element: Linear				
	KŁ ()	0+508.47	5820815.8893	5519900.6566
	PŁ ()	0+718.62	5820642.9345	5520020.0347
	Tangent Direction:	161.54		
	Tangent Length:	210.15		
Element: Circular				
	PŁ ()	0+718.62	5820642.9345	5520020.0347
	W ()	0+764.88	5820604.8610	5520046.3141
	CC ()		5820733.8229	5520151.7135
	KŁ ()	0+808.69	5820586.6867	5520088.8570
	Radius:	160.00		
	Delta:	35.84	Left	
Degree of Curvature(Arc):		39.79		
	Length:	90.07		
	Tangent:	46.26		
	Chord:	88.88		
	Middle Ordinate:	6.30		
	External:	6.55		
Tangent Direction:		161.54		
Radial Direction:		261.54		
Chord Direction:		143.62		
Radial Direction:		225.70		
Tangent Direction:		125.70		
Element: Linear				
	KŁ ()	0+808.69	5820586.6867	5520088.8570
	W ()	0+864.90	5820564.6045	5520140.5476
	Tangent Direction:	125.70		
	Tangent Length:	56.21		
Element: Linear				
	W ()	0+864.90	5820564.6045	5520140.5476
	W ()	0+931.50	5820538.2231	5520201.7011
	Tangent Direction:	125.93		
	Tangent Length:	66.60		
Element: Linear				
	W ()	0+931.50	5820538.2231	5520201.7011
	KONIEC ()	0+954.65	5820528.3916	5520222.6580
	Tangent Direction:	127.93		
	Tangent Length:	23.15		

odcinek_2_tyczenie_plan.txt

Project Name: Osiecko
Description:
Horizontal Alignment Name: plan2
Description:
Style: Default

	STATION	NORTHING	EASTING
Element: Linear			
POCZĄTEK ()	0+000.00	5820731.6442	5519958.8048
PL ()	0+003.38	5820733.5431	5519961.6043
Tangent Direction:	62.06		
Tangent Length:	3.38		
Element: Circular			
PL ()	0+003.38	5820733.5431	5519961.6043
W ()	0+025.08	5820745.7239	5519979.5622
CC ()		5820708.7157	5519978.4447
KŁ ()	0+040.95	5820732.4818	5519996.7524
Radius:	30.00		
Delta:	79.73	Right	
Degree of Curvature(Arc):	212.21		
Length:	37.57		
Tangent:	21.70		
Chord:	35.16		
Middle Ordinate:	5.69		
External:	7.03		
Tangent Direction:	62.06		
Radial Direction:	162.06		
Chord Direction:	101.92		
Radial Direction:	241.79		
Tangent Direction:	141.79		
Element: Linear			
KŁ ()	0+040.95	5820732.4818	5519996.7524
PL ()	0+093.55	5820700.3863	5520038.4170
Tangent Direction:	141.79		
Tangent Length:	52.59		
Element: Circular			
PL ()	0+093.55	5820700.3863	5520038.4170
W ()	0+105.13	5820693.3166	5520047.5945
CC ()		5820938.0471	5520221.4944
KŁ ()	0+116.71	5820686.9757	5520057.2898
Radius:	300.00		
Delta:	4.91	Left	
Degree of Curvature(Arc):	21.22		
Length:	23.16		
Tangent:	11.58		
Chord:	23.15		
Middle Ordinate:	0.22		
External:	0.22		
Tangent Direction:	141.79		
Radial Direction:	241.79		
Chord Direction:	139.33		
Radial Direction:	236.87		
Tangent Direction:	136.87		
Element: Linear			
KŁ ()	0+116.71	5820686.9757	5520057.2898
PL ()	0+169.58	5820658.0348	5520101.5409
Tangent Direction:	136.87		
Tangent Length:	52.87		
Element: Circular			
PL ()	0+169.58	5820658.0348	5520101.5409
W ()	0+201.55	5820640.5378	5520128.2940
CC ()		5820557.6062	5520035.8591
KŁ ()	0+232.06	5820612.0506	5520142.7974

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	Radius:	120.00		
	Delta:	33.15	Right	
Degree of Curvature(Arc):		53.05		
	Length:	62.48		
	Tangent:	31.97		
	Chord:	61.78		
	Middle Ordinate:	4.04		
	External:	4.18		
Tangent Direction:		136.87		
Radial Direction:		236.87		
Chord Direction:		153.45		
Radial Direction:		270.02		
Tangent Direction:		170.02		
Element: Linear				
	KŁ ()	0+232.06	5820612.0506	5520142.7974
	PL ()	0+254.08	5820592.4282	5520152.7876
	Tangent Direction:	170.02		
	Tangent Length:	22.02		
Element: Circular				
	PL ()	0+254.08	5820592.4282	5520152.7876
	W ()	0+268.38	5820579.6912	5520159.2722
	CC ()		5820578.8171	5520126.0530
	KŁ ()	0+280.76	5820566.6308	5520153.4664
	Radius:	30.00		
	Delta:	56.61	Right	
Degree of Curvature(Arc):		212.21		
	Length:	26.68		
	Tangent:	14.29		
	Chord:	25.81		
	Middle Ordinate:	2.92		
	External:	3.23		
Tangent Direction:		170.02		
Radial Direction:		270.02		
Chord Direction:		198.33		
Radial Direction:		326.63		
Tangent Direction:		226.63		
Element: Linear				
	KŁ ()	0+280.76	5820566.6308	5520153.4664
	KONIEC ()	0+287.74	5820560.2542	5520150.6318
	Tangent Direction:	226.63		
	Tangent Length:	6.98		

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Project Name: Odcinek_3_tyczenie_plan.txt
Description:
Horizontal Alignment Name: plan3
Description:
Style: Default

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	STATION	NORTHING	EASTING
Element: Linear			
POCZĄTEK ()	0+000.00	5820593.5292	5520074.7871
PŁ ()	0+003.55	5820590.4268	5520073.0641
Tangent Direction:	232.28		
Tangent Length:	3.55		
Element: Circular			
PŁ ()	0+003.55	5820590.4268	5520073.0641
W ()	0+014.03	5820581.2668	5520067.9765
CC ()		5820583.1437	5520086.1773
KŁ ()	0+021.84	5820573.3377	5520074.8264
Radius:	15.00		
Delta:	77.64	Left	
Degree of Curvature(Arc):	424.41		
Length:	18.29		
Tangent:	10.48		
Chord:	17.18		
Middle Ordinate:	2.70		
External:	3.30		
Tangent Direction:	232.28		
Radial Direction:	332.28		
Chord Direction:	193.46		
Radial Direction:	254.64		
Tangent Direction:	154.64		
Element: Linear			
KŁ ()	0+021.84	5820573.3377	5520074.8264
KONIEC ()	0+060.27	5820544.2540	5520099.9516
Tangent Direction:	154.64		
Tangent Length:	38.43		

odcinek_1_tyczenie_niweleta.txt

Project Name: Osiecko
 Description:
 Horizontal Alignment Name: plan
 Description:
 Style: Geom_plan
 Vertical Alignment Name: niw
 Description:
 Style: Geom_plan

		STATION	ELEVATION
Element: Linear			
	POCZĄTEK	0+000.00	65.779
	WP	0+167.50	65.125
	Tangent Grade:	-0.39	
	Tangent Length:	167.50	
Element: Linear			
	WP	0+167.50	65.125
	WP	0+331.20	65.779
	Tangent Grade:	0.40	
	Tangent Length:	163.70	
Element: Linear			
	WP	0+331.20	65.779
	WP	0+430.72	66.377
	Tangent Grade:	0.60	
	Tangent Length:	99.52	
Element: Linear			
	WP	0+430.72	66.377
	WP	0+566.99	67.875
	Tangent Grade:	1.10	
	Tangent Length:	136.27	
Element: Linear			
	WP	0+566.99	67.875
	WP	0+670.11	69.216
	Tangent Grade:	1.30	
	Tangent Length:	103.12	
Element: Linear			
	WP	0+670.11	69.216
	WP	0+783.65	70.011
	Tangent Grade:	0.70	
	Tangent Length:	113.54	
Element: Linear			
	WP	0+783.65	70.011
	WP	0+875.35	71.020
	Tangent Grade:	1.10	
	Tangent Length:	91.70	
Element: Linear			
	WP	0+875.35	71.020
	KONIEC	0+954.65	71.654
	Tangent Grade:	0.80	
	Tangent Length:	79.30	

odcinek_2_tyczenie_niweleta.txt

Project Name: Osiecko

Description:

Horizontal Alignment Name: plan2

Description:

Style: Default

Vertical Alignment Name: niw2

Description:

Style: Geom_plan

		STATION	ELEVATION
Element: Linear			
	POCZĄTEK	0+000.00	68.446
	WP	0+012.55	68.823
	Tangent Grade:	3.00	
	Tangent Length:	12.55	
Element: Linear			
	WP	0+012.55	68.823
	WP	0+087.88	71.911
	Tangent Grade:	4.10	
	Tangent Length:	75.32	
Element: Linear			
	WP	0+087.88	71.911
	PŁP	0+164.48	76.048
	Tangent Grade:	5.40	
	Tangent Length:	76.60	
Element: Parabola			
	PŁP	0+164.48	76.048
	WP	0+186.18	77.219
	KŁP	0+207.88	75.700
	MAX	0+183.38	76.558
	Length:	43.40	
Stopping Sight Distance:		44.21	
Entrance Grade:		5.40	
Exit Grade:		-7.00	
$r = (g_2 - g_1) / L$:		-28.57	
$k = 1 / (g_2 - g_1)$:		3.50	
Middle Ordinate:		-0.67	
Element: Linear			
	KŁP	0+207.88	75.700
	WP	0+250.77	72.698
	Tangent Grade:	-7.00	
	Tangent Length:	42.89	
Element: Linear			
	WP	0+250.77	72.698
	WP	0+278.31	71.348
	Tangent Grade:	-4.90	
	Tangent Length:	27.54	
Element: Linear			
	WP	0+278.31	71.348
	KONIEC	0+288.91	71.020
	Tangent Grade:	-3.10	
	Tangent Length:	10.59	

odcinek_3_tyczenie_niweleta.txt

Project Name: Osiecko

Description:

Horizontal Alignment Name: plan3

Description:

Style: Default

Vertical Alignment Name: niw3

Description:

Style: Geom_plan

		STATION	ELEVATION
Element: Linear			
	POCZĄTEK	0+000.00	70.110
	WP	0+002.44	70.159
	Tangent Grade:	2.00	
	Tangent Length:	2.44	
Element: Linear			
	WP	0+002.44	70.159
	PŁP	0+011.15	70.072
	Tangent Grade:	-1.00	
	Tangent Length:	8.71	
Element: Parabola			
	PŁP	0+011.15	70.072
	WP	0+019.15	69.992
	KŁP	0+027.15	70.072
	MIN	0+019.15	70.032
	Length:	16.00	
Headlight Sight Distance:		304.00	
	Entrance Grade:	-1.00	
	Exit Grade:	1.00	
$r = (g_2 - g_1) / L$:		12.50	
$K = 1 / (g_2 - g_1)$:		8.00	
	Middle Ordinate:	0.04	
Element: Linear			
	KŁP	0+027.15	70.072
	PŁP	0+034.15	70.142
	Tangent Grade:	1.00	
	Tangent Length:	7.00	
Element: Parabola			
	PŁP	0+034.15	70.142
	WP	0+041.65	70.217
	KŁP	0+049.15	70.179
	MAX	0+044.15	70.192
	Length:	15.00	
Stopping Sight Distance:		193.61	
	Entrance Grade:	1.00	
	Exit Grade:	-0.50	
$r = (g_2 - g_1) / L$:		-10.00	
$K = 1 / (g_2 - g_1)$:		10.00	
	Middle Ordinate:	-0.03	
Element: Linear			
	KŁP	0+049.15	70.179
	KONIEC	0+060.27	70.124
	Tangent Grade:	-0.50	
	Tangent Length:	11.13	