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                                tyczenie_oś_odc_3.txt
Project Name: Rokitno
Description:
Horizontal Alignment Name: odc_3
Description:
Style: Geom_plan

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	STATION	NORTHING	EASTING
Element: Linear			
POCZĄTEK ()	0+000.00	5860307.6647	5545818.9333
PL ()	0+101.51	5860404.8536	5545848.2229
Tangent Direction:	18.63		
Tangent Length:	101.51		
Element: Circular			
PL ()	0+101.51	5860404.8536	5545848.2229
W ()	0+116.68	5860419.3819	5545852.6013
CC ()		5860462.5635	5545856.7300
KŁ ()	0+131.80	5860434.4044	5545854.7377
Radius:	200.00		
Delta:	9.64	Left	
Degree of Curvature(Arc):	31.83		
Length:	30.29		
Tangent:	15.17		
Chord:	30.26		
Middle Ordinate:	0.57		
External:	0.57		
Tangent Direction:	18.63		
Radial Direction:	118.63		
Chord Direction:	13.81		
Radial Direction:	108.99		
Tangent Direction:	8.99		
Element: Linear			
KŁ ()	0+131.80	5860434.4044	5545854.7377
PL ()	0+207.12	5860508.9743	5545865.3424
Tangent Direction:	8.99		
Tangent Length:	75.32		
Element: Circular			
PL ()	0+207.12	5860508.9743	5545865.3424
W ()	0+215.67	5860517.4432	5545866.5468
CC ()		5860544.1732	5545867.8328
KŁ ()	0+224.22	5860525.9745	5545867.1695
Radius:	250.00		
Delta:	4.35	Left	
Degree of Curvature(Arc):	25.46		
Length:	17.10		
Tangent:	8.55		
Chord:	17.10		
Middle Ordinate:	0.15		
External:	0.15		
Tangent Direction:	8.99		
Radial Direction:	108.99		
Chord Direction:	6.82		
Radial Direction:	104.64		
Tangent Direction:	4.64		
Element: Linear			
KŁ ()	0+224.22	5860525.9745	5545867.1695
W ()	0+273.88	5860575.5100	5545870.7850
Tangent Direction:	4.64		
Tangent Length:	49.67		
Element: Linear			
W ()	0+273.88	5860575.5100	5545870.7850
PL ()	0+318.23	5860619.5038	5545876.3588
Tangent Direction:	8.02		
Tangent Length:	44.35		

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Element: Circular
      PL (      )      0+318.23  5860619.5038  5545876.3588
      W (      )      0+327.79  5860628.9850  5545877.5600
      CC (      )      5860632.0728  5545777.1518
      KL (      )      0+337.29  5860638.5221  5545876.9436
      Radius:      100.00
      Delta:      12.13 Left
Degree of Curvature(Arc):      63.66
      Length:      19.06
      Tangent:      9.56
      Chord:      19.03
      Middle Ordinate:      0.45
      External:      0.46
Tangent Direction:      8.02
Radial Direction:      108.02
Chord Direction:      1.96
Radial Direction:      95.89
Tangent Direction:      395.89

Element: Linear
      KL (      )      0+337.29  5860638.5221  5545876.9436
      PL (      )      0+376.91  5860678.0608  5545874.3884
Tangent Direction:      395.89
Tangent Length:      39.62

Element: Circular
      PL (      )      0+376.91  5860678.0608  5545874.3884
      W (      )      0+395.98  5860697.0897  5545873.1586
      CC (      )      5860674.8362  5545824.4924
      KL (      )      0+413.34  5860710.4673  5545859.5699
      Radius:      50.00
      Delta:      46.39 Left
Degree of Curvature(Arc):      127.32
      Length:      36.43
      Tangent:      19.07
      Chord:      35.63
      Middle Ordinate:      3.28
      External:      3.51
Tangent Direction:      395.89
Radial Direction:      95.89
Chord Direction:      372.70
Radial Direction:      49.50
Tangent Direction:      349.50

Element: Linear
      KL (      )      0+413.34  5860710.4673  5545859.5699
      KONIEC (      )      0+432.63  5860724.0001  5545845.8235
Tangent Direction:      349.50
Tangent Length:      19.29

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tyczenie_niweleta_odc_3.txt
Project Name: Rokitno
Description:
Horizontal Alignment Name: odc_3
Description:
Style: Geom_plan
Vertical Alignment Name: niw_3
Description:
Style: Geom_plan

	STATION	ELEVATION
Element: Linear		
POCZĄTEK	0+000.00	98.400
PŁP	0+064.02	101.601
Tangent Grade:	5.00	
Tangent Length:	64.02	
Element: Parabola		
PŁP	0+064.02	101.601
WP	0+082.02	102.501
KŁP	0+100.02	102.321
MAX	0+094.02	102.351
Length:	36.00	
Stopping Sight Distance:	64.53	
Entrance Grade:	5.00	
Exit Grade:	-1.00	
$r = (g_2 - g_1) / L$:	-16.67	
$K = 1 / (g_2 - g_1)$:	6.00	
Middle Ordinate:	-0.27	
Element: Linear		
KŁP	0+100.02	102.321
PŁP	0+132.70	101.994
Tangent Grade:	-1.00	
Tangent Length:	32.68	
Element: Parabola		
PŁP	0+132.70	101.994
WP	0+154.20	101.779
KŁP	0+175.70	100.639
Length:	43.00	
Stopping Sight Distance:	86.42	
Entrance Grade:	-1.00	
Exit Grade:	-5.30	
$r = (g_2 - g_1) / L$:	-10.00	
$K = 1 / (g_2 - g_1)$:	10.00	
Middle Ordinate:	-0.23	
Element: Linear		
KŁP	0+175.70	100.639
WP	0+193.00	99.722
Tangent Grade:	-5.30	
Tangent Length:	17.30	
Element: Linear		
WP	0+193.00	99.722
WP	0+215.43	98.758
Tangent Grade:	-4.30	
Tangent Length:	22.43	
Element: Linear		
WP	0+215.43	98.758
WP	0+241.07	97.963
Tangent Grade:	-3.10	
Tangent Length:	25.65	
Element: Linear		
WP	0+241.07	97.963
PŁP	0+260.26	97.426

tyczenie_niweleta_odc_3.txt

Tangent Grade: -2.80
Tangent Length: 19.18

Element: Parabola

PŁP	0+260.26	97.426
WP	0+282.26	96.810
KŁP	0+304.26	97.404
MIN	0+282.66	97.112
Length:	44.00	
Headlight Sight Distance:	48.27	
Entrance Grade:	-2.80	
Exit Grade:	2.70	
$r = (g_2 - g_1) / L$:	12.50	
$K = 1 / (g_2 - g_1)$:	8.00	
Middle Ordinate:	0.30	

Element: Linear

KŁP	0+304.26	97.404
PŁP	0+314.91	97.691
Tangent Grade:	2.70	
Tangent Length:	10.65	

Element: Parabola

PŁP	0+314.91	97.691
WP	0+329.91	98.096
KŁP	0+344.91	97.751
MAX	0+331.11	97.910
Length:	30.00	
Stopping Sight Distance:	70.83	
Entrance Grade:	2.70	
Exit Grade:	-2.30	
$r = (g_2 - g_1) / L$:	-16.67	
$K = 1 / (g_2 - g_1)$:	6.00	
Middle Ordinate:	-0.19	

Element: Linear

KŁP	0+344.91	97.751
PŁP	0+356.67	97.481
Tangent Grade:	-2.30	
Tangent Length:	11.76	

Element: Parabola

PŁP	0+356.67	97.481
WP	0+368.67	97.205
KŁP	0+380.67	97.073
Length:	24.00	
Headlight Sight Distance:	95.21	
Entrance Grade:	-2.30	
Exit Grade:	-1.10	
$r = (g_2 - g_1) / L$:	5.00	
$K = 1 / (g_2 - g_1)$:	20.00	
Middle Ordinate:	0.04	

Element: Linear

KŁP	0+380.67	97.073
KONIEC	0+432.53	96.502
Tangent Grade:	-1.10	
Tangent Length:	51.86	

Project Name: Rokitno
 Description:
 Horizontal Alignment Name: odc3_kr_L
 Description:
 Style: Default

	STATION	NORTHING	EASTING
Element: Linear			
POCZĄTEK ()	0+000.00	5860307.8872	5545817.1726
W ()	0+096.67	5860400.4487	5545845.0677
Tangent Direction:	18.63		
Tangent Length:	96.67		
Element: Linear			
W ()	0+096.67	5860400.4487	5545845.0677
PEŁ ()	0+117.76	5860421.3880	5545847.5889
Tangent Direction:	7.63		
Tangent Length:	21.09		
Non-collinear			
Element: Circular			
PEŁ ()	0+117.76	5860421.3880	5545847.5889
W ()	0+124.72	5860428.1870	5545849.0557
CC ()		5860462.5635	5545656.7300
KŁ ()	0+131.67	5860435.0732	5545850.0350
Radius:	195.25		
Delta:	4.53	Left	
Degree of Curvature(Arc):	32.61		
Length:	13.91		
Tangent:	6.96		
Chord:	13.90		
Middle Ordinate:	0.12		
External:	0.12		
Tangent Direction:	13.53		
Radial Direction:	113.53		
Chord Direction:	11.26		
Radial Direction:	108.99		
Tangent Direction:	8.99		
Element: Linear			
KŁ ()	0+131.67	5860435.0732	5545850.0350
W ()	0+144.83	5860448.1009	5545851.8877
Tangent Direction:	8.99		
Tangent Length:	13.16		
Element: Linear			
W ()	0+144.83	5860448.1009	5545851.8877
W ()	0+163.88	5860466.3066	5545857.5070
Tangent Direction:	19.06		
Tangent Length:	19.05		
Element: Linear			
W ()	0+163.88	5860466.3066	5545857.5070
PEŁ ()	0+207.23	5860509.2207	5545863.6099
Tangent Direction:	8.99		
Tangent Length:	43.35		
Element: Circular			
PEŁ ()	0+207.23	5860509.2207	5545863.6099
W ()	0+215.72	5860517.6303	5545864.8058
CC ()		5860544.1732	5545617.8328
KŁ ()	0+224.21	5860526.1019	5545865.4241
Radius:	248.25		
Delta:	4.35	Left	
Degree of Curvature(Arc):	25.64		
Length:	16.98		
Tangent:	8.49		

tyczenie_odc_3_kr_L.txt

Chord: 16.98
 Middle Ordinate: 0.15
 External: 0.15
 Tangent Direction: 8.99
 Radial Direction: 108.99
 Chord Direction: 6.82
 Radial Direction: 104.64
 Tangent Direction: 4.64

Element: Linear

KŁ ()	0+224.21	5860526.1019	5545865.4241
W ()	0+273.88	5860575.6374	5545869.0396
Tangent Direction:	4.64		
Tangent Length:	49.67		

Non-coincident

Element: Linear

W ()	0+273.88	5860575.7300	5545869.0489
PL ()	0+318.22	5860619.7238	5545874.6227
Tangent Direction:	8.02		
Tangent Length:	44.35		

Non-collinear

Element: Circular

PL ()	0+318.22	5860619.7238	5545874.6227
W ()	0+327.60	5860629.0429	5545875.6773
CC ()		5860630.7595	5545777.1114
KŁ ()	0+336.92	5860638.3931	5545874.9478
Radius:	98.13		
Delta:	12.13	Left	
Degree of Curvature(Arc):	64.87		
Length:	18.70		
Tangent:	9.38		
Chord:	18.67		
Middle Ordinate:	0.45		
External:	0.45		
Tangent Direction:	7.17		
Radial Direction:	107.17		
Chord Direction:	1.11		
Radial Direction:	95.04		
Tangent Direction:	395.04		

Non-collinear

Element: Linear

KŁ ()	0+336.92	5860638.3931	5545874.9478
PL ()	0+376.54	5860677.9319	5545872.3925
Tangent Direction:	395.89		
Tangent Length:	39.62		

Element: Circular

PL ()	0+376.54	5860677.9319	5545872.3925
W ()	0+394.85	5860696.1996	5545871.2119
CC ()		5860674.8362	5545824.4924
KŁ ()	0+411.52	5860709.0421	5545858.1668
Radius:	48.00		
Delta:	46.39	Left	
Degree of Curvature(Arc):	132.63		
Length:	34.98		
Tangent:	18.31		
Chord:	34.21		
Middle Ordinate:	3.15		
External:	3.37		
Tangent Direction:	395.89		
Radial Direction:	95.89		
Chord Direction:	372.70		

		tyczenie_odc_3_kr_L.txt		
	Radial Direction:	49.50		
	Tangent Direction:	349.50		
Element:	Linear			
	KŁ ()	0+411.52	5860709.0421	5545858.1668
	KONIEC ()	0+431.82	5860723.2864	5545843.6976
	Tangent Direction:	349.50		
	Tangent Length:	20.30		

tyczenie_odc_3_kr_P.txt

Project Name: Rokitno
 Description:
 Horizontal Alignment Name: odc3_kr_P
 Description:
 Style: Default

	STATION	NORTHING	EASTING
Element: Linear			
POCZĄTEK ()	0+000.00	5860306.8772	5545820.5237
PL ()	0+101.80	5860404.3486	5545849.8985
Tangent Direction:	18.63		
Tangent Length:	101.80		
Element: Circular			
PL ()	0+101.80	5860404.3486	5545849.8985
W ()	0+117.11	5860419.0040	5545854.3152
CC ()		5860462.5635	5545856.7300
KŁ ()	0+132.36	5860434.1580	5545856.4703
Radius:	201.75		
Delta:	9.64	Left	
Degree of Curvature(Arc):	31.55		
Length:	30.55		
Tangent:	15.31		
Chord:	30.53		
Middle Ordinate:	0.58		
External:	0.58		
Tangent Direction:	18.63		
Radial Direction:	118.63		
Chord Direction:	13.81		
Radial Direction:	108.99		
Tangent Direction:	8.99		
Element: Linear			
KŁ ()	0+132.36	5860434.1580	5545856.4703
PL ()	0+207.68	5860508.7279	5545867.0750
Tangent Direction:	8.99		
Tangent Length:	75.32		
Element: Circular			
PL ()	0+207.68	5860508.7279	5545867.0750
W ()	0+216.29	5860517.2561	5545868.2878
CC ()		5860544.1732	5545867.8328
KŁ ()	0+224.90	5860525.8471	5545868.9148
Radius:	251.75		
Delta:	4.35	Left	
Degree of Curvature(Arc):	25.29		
Length:	17.22		
Tangent:	8.61		
Chord:	17.22		
Middle Ordinate:	0.15		
External:	0.15		
Tangent Direction:	8.99		
Radial Direction:	108.99		
Chord Direction:	6.82		
Radial Direction:	104.64		
Tangent Direction:	4.64		
Element: Linear			
KŁ ()	0+224.90	5860525.8471	5545868.9148
W ()	0+274.56	5860575.3826	5545872.5304
Tangent Direction:	4.64		
Tangent Length:	49.67		
Non-coincident			
Element: Linear			
W ()	0+274.56	5860575.2900	5545872.5211
W ()	0+318.47	5860618.8473	5545878.0396

tyczenie_odc_3_kr_P.txt

Tangent Direction:	8.02		
Tangent Length:	43.91		
Element: Linear			
W ()	0+318.47	5860618.8473	5545878.0396
W ()	0+338.43	5860638.7156	5545879.9374
Tangent Direction:	6.06		
Tangent Length:	19.96		
Element: Linear			
W ()	0+338.43	5860638.7156	5545879.9374
W ()	0+367.67	5860667.8916	5545878.0518
Tangent Direction:	395.89		
Tangent Length:	29.24		
Element: Linear			
W ()	0+367.67	5860667.8916	5545878.0518
W ()	0+373.66	5860673.8137	5545877.1189
Tangent Direction:	390.05		
Tangent Length:	6.00		
Element: Linear			
W ()	0+373.66	5860673.8137	5545877.1189
PL ()	0+378.10	5860678.1898	5545876.3842
Tangent Direction:	389.41		
Tangent Length:	4.44		
Non-collinear			
Element: Circular			
PL ()	0+378.10	5860678.1898	5545876.3842
W ()	0+397.93	5860697.9799	5545875.1052
CC ()		5860674.8362	5545824.4924
KL ()	0+415.99	5860711.8925	5545860.9729
Radius:	52.00		
Delta:	46.39	Left	
Degree of Curvature(Arc):	122.43		
Length:	37.89		
Tangent:	19.83		
Chord:	37.06		
Middle ordinate:	3.41		
External:	3.65		
Tangent Direction:	395.89		
Radial Direction:	95.89		
Chord Direction:	372.70		
Radial Direction:	49.50		
Tangent Direction:	349.50		
Element: Linear			
KL ()	0+415.99	5860711.8925	5545860.9729
KONIEC ()	0+436.29	5860726.1368	5545846.5038
Tangent Direction:	349.50		
Tangent Length:	20.30		