ANEXO N°1

ALINEAMIENTO: Eje_Horizontal_Gualea

DeECription:

0+000 – 19+295.047

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+000.000	10012537.319	751795.225
Fin:	0+005.045	10012542.310	751795.966

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.045	Course:	N 08° 26' 38.2669" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	0+005.045	10012542.310	751795.966
RP:		10012550.092	751743.540
PT:	0+044.866	10012580.191	751787.165

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	43° 02' 52.9001"	Type:	LEFT
Radius:	53.000		
Length:	39.820	Tangent:	20.903
Mid-Ord:	3.696	External:	3.973
Chord:	38.890	Course:	N 13° 04' 48.1831" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+044.866	10012580.191	751787.165
Fin:	0+058.990	10012591.817	751779.143

Tangent Data

Parameter	Value	Parameter	Value
Length:	14.124	Course:	N 34° 36' 14.6332" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	0+058.990	10012591.817	751779.143
RP:		10012530.483	751690.249
PT:	0+088.490	10012613.524	751759.302

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 39' 01.3533"	Type:	LEFT
Radius:	108.000		
Length:	29.500	Tangent:	14.843
Mid-Ord:	1.006	External:	1.015
Chord:	29.409	Course:	N 42° 25' 45.3098" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+088.490	10012613.524	751759.302
Fin:	0+100.337	10012621.099	751750.193

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.847	Course:	N 50° 15' 15.9865" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	0+100.337	10012621.099	751750.193
RP:		10012667.232	751788.556
PT:	0+115.367	10012632.048	751739.954

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 21' 09.4188"	Type:	RIGHT
Radius:	60.000		
Length:	15.030	Tangent:	7.555
Mid-Ord:	0.470	External:	0.474
Chord:	14.991	Course:	N 43° 04' 41.2770" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+115.367	10012632.048	751739.954
Fin:	0+167.855	10012674.564	751709.176

Tangent Data

Parameter	Value	Parameter	Value
Length:	52.488	Course:	N 35° 54' 06.5677" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	0+167.855	10012674.564	751709.176
RP:		10012705.643	751752.107
PT:	0+202.276	10012706.854	751699.121

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	37° 12' 38.3929"	Type:	RIGHT
Radius:	53.000		
Length:	34.421	Tangent:	17.842
Mid-Ord:	2.770	External:	2.923
Chord:	33.819	Course:	N 17° 17' 47.3712" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+202.276	10012706.854	751699.121
Fin:	0+212.852	10012717.428	751699.362

Tangent Data

Parameter	Value	Parameter	Value
Length:	10.577	Course:	N 01° 18' 31.8252" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	0+212.852	10012717.428	751699.362
RP:		10012715.875	751767.344
PT:	0+259.551	10012760.178	751715.758

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 20' 52.4209"	Type:	RIGHT
Radius:	68.000		
Length:	46.699	Tangent:	24.313
Mid-Ord:	3.970	External:	4.216
Chord:	45.787	Course:	N 20° 58' 58.0357" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+259.551	10012760.178	751715.758
Fin:	0+301.603	10012792.080	751743.155

Tangent Data

Parameter	Value	Parameter	Value
Length:	42.051	Course:	N 40° 39' 24.2461" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	0+301.603	10012792.080	751743.155
SPI:		10012807.295	751756.222
EC:	0+331.603	10012816.215	751760.853

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.056
Radius:	65.000	S Tan:	10.051
Theta:	13° 13' 19.5707"	P:	0.576
X:	29.841	K:	14.973
Y:	2.299	A:	44.159
Chord:	29.929	Course:	N 36° 15' 04.8849" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	0+331.603	10012816.215	751760.853
RP:		10012846.163	751703.163
CE:	0+372.760	10012856.157	751767.390

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	36° 16' 44.5411"	Type:	LEFT
Radius:	65.000		
Length:	41.157	Tangent:	21.295
Mid-Ord:	3.230	External:	3.399
Chord:	40.473	Course:	N 09° 17' 42.4049" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	0+372.760	10012856.157	751767.390
SPI:		10012866.089	751765.845
ET:	0+402.760	10012884.676	751758.310

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.056
Radius:	65.000	S Tan:	10.051
Theta:	13° 13' 19.5707"	P:	0.576
X:	29.841	K:	14.973
Y:	2.299	A:	44.159
Chord:	29.929	Course:	N 17° 39' 40.0751" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+402.760	10012884.676	751758.310
Fin:	0+412.088	10012893.320	751754.806

Tangent Data

Parameter	Value	Parameter	Value
Length:	9.328	Course:	N 22° 03' 59.4363" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	0+412.088	10012893.320	751754.806
SPI:		10012912.036	751747.219
EC:	0+442.088	10012922.205	751747.661

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.196
Radius:	35.000	S Tan:	10.178
Theta:	24° 33' 19.2027"	P:	1.064
X:	29.454	K:	14.909
Y:	4.230	A:	32.404
Chord:	29.756	Course:	N 13° 53' 39.0578" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	0+442.088	10012922.205	751747.661
RP:		10012920.685	751782.628
CE:	0+459.620	10012938.810	751752.687

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	28° 42' 00.3630"	Type:	RIGHT
Radius:	35.000		
Length:	17.532	Tangent:	8.954
Mid-Ord:	1.092	External:	1.127
Chord:	17.349	Course:	N 16° 50' 19.9478" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	0+459.620	10012938.810	751752.687
SPI:		10012947.518	751757.958
ET:	0+489.620	10012958.886	751774.650

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.196
Radius:	35.000	S Tan:	10.178
Theta:	24° 33' 19.2027"	P:	1.064
X:	29.454	K:	14.909
Y:	4.230	A:	32.404
Chord:	29.756	Course:	N 47° 34' 18.9535" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+489.620	10012958.886	751774.650
Fin:	0+498.945	10012964.135	751782.358

Tangent Data

Parameter	Value	Parameter	Value
Length:	9.325	Course:	N 55° 44' 39.3320" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	0+498.945	10012964.135	751782.358
SPI:		10012975.437	751798.953
EC:	0+528.945	10012983.138	751805.443

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.078
Radius:	55.000	S Tan:	10.071
Theta:	15° 37' 34.0381"	P:	0.680

X:	29.778	K:	14.963
Y:	2.713	A:	40.620
Chord:	29.901	Course:	N 50° 32' 19.8145" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	0+528.945	10012983.138	751805.443
RP:		10013018.578	751763.383
CE:	0+555.300	10013006.522	751817.045

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	27° 27' 18.3964"	Type:	LEFT
Radius:	55.000		
Length:	26.355	Tangent:	13.436
Mid-Ord:	1.571	External:	1.617
Chord:	26.104	Course:	N 26° 23' 26.0957" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	0+555.300	10013006.522	751817.045
SPI:		10013016.348	751819.253
ET:	0+585.300	10013036.400	751818.215

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.078
Radius:	55.000	S Tan:	10.071
Theta:	15° 37' 34.0381"	P:	0.680
X:	29.778	K:	14.963
Y:	2.713	A:	40.620
Chord:	29.901	Course:	N 02° 14' 32.3769" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+585.300	10013036.400	751818.215
Fin:	0+596.818	10013047.902	751817.620

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.518	Course:	N 02° 57' 47.1405" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	0+596.818	10013047.902	751817.620
SPI:		10013061.237	751816.930
EC:	0+616.818	10013067.763	751815.482

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.353
Radius:	60.000	S Tan:	6.684
Theta:	09° 32' 57.4677"	P:	0.278
X:	19.945	K:	9.991
Y:	1.109	A:	34.641
Chord:	19.975	Course:	N 06° 08' 43.5999" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	0+616.818	10013067.763	751815.482
RP:		10013054.764	751756.907
CE:	0+632.545	10013082.498	751810.112

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 01' 06.4999"	Type:	LEFT
Radius:	60.000		
Length:	15.727	Tangent:	7.909
Mid-Ord:	0.515	External:	0.519
Chord:	15.682	Course:	N 20° 01' 17.8582" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	0+632.545	10013082.498	751810.112
SPI:		10013088.425	751807.023
ET:	0+652.545	10013099.078	751798.972

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.353
Radius:	60.000	S Tan:	6.684
Theta:	09° 32' 57.4677"	P:	0.278
X:	19.945	K:	9.991
Y:	1.109	A:	34.641
Chord:	19.975	Course:	N 33° 53' 52.1165" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+652.545	10013099.078	751798.972
Fin:	0+652.578	10013099.104	751798.952

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.033	Course:	N 37° 04' 48.5779" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	0+652.578	10013099.104	751798.952
SPI:		10013109.750	751790.906
EC:	0+672.578	10013115.537	751787.576

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.344
Radius:	80.000	S Tan:	6.677
Theta:	07° 09' 43.1008"	P:	0.208
X:	19.969	K:	9.995
Y:	0.832	A:	40.000
Chord:	19.986	Course:	N 34° 41' 35.3485" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	0+672.578	10013115.537	751787.576
RP:		10013155.438	751856.915
CE:	0+689.627	10013131.104	751780.706

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	12° 12' 37.0034"	Type:	RIGHT
Radius:	80.000		
Length:	17.049	Tangent:	8.557
Mid-Ord:	0.454	External:	0.456
Chord:	17.017	Course:	N 23° 48' 46.9757" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	0+689.627	10013131.104	751780.706
SPI:		10013137.465	751778.675
ET:	0+709.627	10013150.584	751776.233

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.344
Radius:	80.000	S Tan:	6.677
Theta:	07° 09' 43.1008"	P:	0.208
X:	19.969	K:	9.995
Y:	0.832	A:	40.000
Chord:	19.986	Course:	N 12° 55' 58.6029" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+709.627	10013150.584	751776.233
Fin:	0+733.118	10013173.678	751771.933

Tangent Data

Parameter	Value	Parameter	Value
Length:	23.491	Course:	N 10° 32' 45.3732" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	0+733.118	10013173.678	751771.933
SPI:		10013193.349	751768.271
EC:	0+763.118	10013203.317	751767.369

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.009
Radius:	160.000	S Tan:	10.008
Theta:	05° 22' 17.3256"	P:	0.234
X:	29.974	K:	14.996
Y:	0.937	A:	69.282
Chord:	29.988	Course:	N 08° 45' 20.0777" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	0+763.118	10013203.317	751767.369
RP:		10013217.747	751926.717
CE:	0+799.677	10013239.786	751768.242

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	13° 05' 30.1185"	Type:	RIGHT
Radius:	160.000		
Length:	36.559	Tangent:	18.359
Mid-Ord:	1.043	External:	1.050
Chord:	36.479	Course:	N 01° 22' 17.0116" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	0+799.677	10013239.786	751768.242
SPI:		10013249.699	751769.620
ET:	0+829.677	10013269.172	751774.219

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.009
Radius:	160.000	S Tan:	10.008
Theta:	05° 22' 17.3256"	P:	0.234

X:	29.974	K:	14.996
Y:	0.937	A:	69.282
Chord:	29.988	Course:	N 11° 29' 54.1010" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+829.677	10013269.172	751774.219
Fin:	0+938.190	10013374.780	751799.162

Tangent Data

Parameter	Value	Parameter	Value
Length:	108.514	Course:	N 13° 17' 19.3965" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	0+938.190	10013374.780	751799.162
RP:		10013443.738	751507.195
PT:	0+984.960	10013420.950	751806.328

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 55' 56.2639"	Type:	LEFT
Radius:	300.000		
Length:	46.769	Tangent:	23.432
Mid-Ord:	0.911	External:	0.914
Chord:	46.722	Course:	N 08° 49' 21.2645" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	0+984.960	10013420.950	751806.328
Fin:	1+082.859	10013518.566	751813.765

Tangent Data

Parameter	Value	Parameter	Value
Length:	97.899	Course:	N 04° 21' 23.1326" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	1+082.859	10013518.566	751813.765
RP:		10013491.979	752162.753
PT:	1+123.495	10013558.815	751819.194

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	06° 39' 08.1024"	Type:	RIGHT
Radius:	350.000		
Length:	40.636	Tangent:	20.341
Mid-Ord:	0.590	External:	0.591
Chord:	40.613	Course:	N 07° 40' 57.1838" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+123.495	10013558.815	751819.194
Fin:	1+257.360	10013690.216	751844.757

Tangent Data

Parameter	Value	Parameter	Value
Length:	133.865	Course:	N 11° 00' 31.2351" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	1+257.360	10013690.216	751844.757
RP:		10013678.758	751903.652

PT:	1+307.903	10013730.336	751872.997

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	48° 15' 55.2899"	Type:	RIGHT
Radius:	60.000		
Length:	50.543	Tangent:	26.880
Mid-Ord:	5.244	External:	5.746
Chord:	49.062	Course:	N 35° 08' 28.8800" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+307.903	10013730.336	751872.997
Fin:	1+400.520	10013777.657	751952.612

Tangent Data

Parameter	Value	Parameter	Value
Length:	92.617	Course:	N 59° 16' 26.5250" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	1+400.520	10013777.657	751952.612
RP:		10013837.830	751916.847
PT:	1+446.268	10013811.801	751981.828

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	37° 26' 41.7132"	Type:	LEFT
Radius:	70.000		
Length:	45.748	Tangent:	23.724
Mid-Ord:	3.704	External:	3.911
Chord:	44.938	Course:	N 40° 33' 05.6684" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+446.268	10013811.801	751981.828
Fin:	1+532.583	10013891.928	752013.923

Tangent Data

Parameter	Value	Parameter	Value
Length:	86.315	Course:	N 21° 49' 44.8118" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	1+532.583	10013891.928	752013.923
SPI:		10013910.565	752021.388
EE:	1+562.583	10013918.582	752027.481

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.076
Radius:	55.798	S Tan:	10.069
Theta:	15° 24' 09.3339"	P:	0.670
X:	29.784	K:	14.964
Y:	2.674	A:	40.914
Chord:	29.904	Course:	N 26° 57' 36.5955" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	1+562.583	10013918.582	752027.481
SPI:		10013926.599	752033.573
ET:	1+592.583	10013938.783	752049.529

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.076
Radius:	55.798	S Tan:	10.069
Theta:	15° 24' 09.3339"	P:	0.670
X:	29.784	K:	14.964
Y:	2.674	A:	40.914
Chord:	29.904	Course:	N 47° 30' 11.6959" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+592.583	10013938.783	752049.529
Fin:	1+604.778	10013946.184	752059.221

Tangent Data

Parameter	Value	Parameter	Value
Length:	12.195	Course:	N 52° 38' 03.4796" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	1+604.778	10013946.184	752059.221
SPI:		10013953.064	752068.231
EE:	1+621.778	10013956.215	752072.943

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	17.000	L Tan:	11.336
Radius:	135.307	S Tan:	5.669
Theta:	03° 35' 57.6094"	P:	0.089
X:	16.993	K:	8.499
Y:	0.356	A:	47.961
Chord:	16.997	Course:	N 53° 50' 02.5385" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	1+621.778	10013956.215	752072.943
SPI:		10013959.365	752077.656
ET:	1+638.778	10013965.062	752087.456

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	17.000	L Tan:	11.336
Radius:	135.307	S Tan:	5.669
Theta:	03° 35' 57.6094"	P:	0.089
X:	16.993	K:	8.499
Y:	0.356	A:	47.961
Chord:	16.997	Course:	N 58° 37' 59.6396" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+638.778	10013965.062	752087.456
Fin:	1+641.434	10013966.396	752089.752

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.656	Course:	N 59° 49' 58.6984" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	1+641.434	10013966.396	752089.752
SPI:		10013973.109	752101.300
EE:	1+661.434	10013977.472	752106.369

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.357
Radius:	54.276	S Tan:	6.688
Theta:	10° 33' 22.9949"	P:	0.307
X:	19.932	K:	9.989
Y:	1.225	A:	32.947
Chord:	19.970	Course:	N 56° 18' 54.6769" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	1+661.434	10013977.472	752106.369
SPI:		10013981.836	752111.438
ET:	1+681.434	10013992.257	752119.793

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.357
Radius:	54.276	S Tan:	6.688
Theta:	10° 33' 22.9949"	P:	0.307
X:	19.932	K:	9.989
Y:	1.225	A:	32.947
Chord:	19.970	Course:	N 42° 14' 16.7303" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+681.434	10013992.257	752119.793
Fin:	1+682.787	10013993.312	752120.639

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.353	Course:	N 38° 43' 12.7087" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	1+682.787	10013993.312	752120.639
SPI:		10014001.637	752127.313
EE:	1+698.787	10014005.541	752130.952

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	16.000	L Tan:	10.670
Radius:	107.498	S Tan:	5.336
Theta:	04° 15' 50.2354"	P:	0.099
X:	15.991	K:	7.999
Y:	0.397	A:	41.472
Chord:	15.996	Course:	N 40° 08' 29.2139" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	1+698.787	10014005.541	752130.952
SPI:		10014009.444	752134.590
ET:	1+714.787	10014016.687	752142.425

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	16.000	L Tan:	10.670
Radius:	107.498	S Tan:	5.336
Theta:	04° 15' 50.2354"	P:	0.099
X:	15.991	K:	7.999
Y:	0.397	A:	41.472
Chord:	15.996	Course:	N 45° 49' 36.6743" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+714.787	10014016.687	752142.425
Fin:	1+717.965	10014018.845	752144.759

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.179	Course:	N 47° 14' 53.1794" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	1+717.965	10014018.845	752144.759
SPI:		10014027.900	752154.553
EE:	1+737.965	10014031.979	752159.832

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.339
Radius:	113.314	S Tan:	6.672
Theta:	05° 03' 22.8888"	P:	0.147
X:	19.984	K:	9.997
Y:	0.588	A:	47.606
Chord:	19.993	Course:	N 48° 56' 00.4089" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	1+737.965	10014031.979	752159.832
SPI:		10014036.059	752165.112
ET:	1+757.965	10014043.253	752176.344

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.339
Radius:	113.314	S Tan:	6.672
Theta:	05° 03' 22.8888"	P:	0.147
X:	19.984	K:	9.997
Y:	0.588	A:	47.606
Chord:	19.993	Course:	N 55° 40' 31.7275" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+757.965	10014043.253	752176.344
Fin:	1+803.119	10014067.606	752214.367

Tangent Data

Parameter	Value	Parameter	Value
Length:	45.154	Course:	N 57° 21' 38.9570" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	1+803.119	10014067.606	752214.367
SPI:		10014078.429	752231.264
EC:	1+833.119	10014085.782	752238.130

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.066
Radius:	60.000	S Tan:	10.060
Theta:	14° 19' 26.2016"	P:	0.624
X:	29.813	K:	14.969
Y:	2.489	A:	42.426
Chord:	29.917	Course:	N 52° 35' 19.3315" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	1+833.119	10014085.782	752238.130
RP:		10014126.730	752194.275
CE:	1+874.528	10014123.073	752254.163

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 32' 32.5484"	Type:	LEFT
Radius:	60.000		
Length:	41.409	Tangent:	21.567
Mid-Ord:	3.537	External:	3.759
Chord:	40.592	Course:	N 23° 15' 56.4812" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	1+874.528	10014123.073	752254.163
SPI:		10014133.114	752254.776
ET:	1+904.528	10014152.822	752251.006

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.066
Radius:	60.000	S Tan:	10.060
Theta:	14° 19' 26.2016"	P:	0.624
X:	29.813	K:	14.969
Y:	2.489	A:	42.426
Chord:	29.917	Course:	N 06° 03' 26.3690" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+904.528	10014152.822	752251.006
Fin:	1+932.907	10014180.696	752245.674

Tangent Data

Parameter	Value	Parameter	Value
Length:	28.379	Course:	N 10° 49' 45.9945" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	1+932.907	10014180.696	752245.674
SPI:		10014200.509	752241.884
EE:	1+962.907	10014210.436	752244.035

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.172
Radius:	37.274	S Tan:	10.157
Theta:	23° 03' 25.9613"	P:	1.000
X:	29.518	K:	14.919
Y:	3.978	A:	33.440
Chord:	29.785	Course:	N 03° 09' 15.4230" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	1+962.907	10014210.436	752244.035
SPI:		10014220.362	752246.187
ET:	1+992.907	10014236.829	752257.839

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.172
Radius:	37.274	S Tan:	10.157

Theta:	23° 03' 25.9613"	P:	1.000
X:	29.518	K:	14.919
Y:	3.978	A:	33.440
Chord:	29.785	Course:	N 27° 36' 35.3565" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	1+992.907	10014236.829	752257.839
Fin:	1+994.397	10014238.045	752258.700

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.490	Course:	N 35° 17' 05.9280" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	1+994.397	10014238.045	752258.700
SPI:		10014251.653	752268.330
EE:	2+019.397	10014258.766	752272.678

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.671
Radius:	186.310	S Tan:	8.337
Theta:	03° 50' 38.8255"	P:	0.140
X:	24.989	K:	12.498
Y:	0.559	A:	68.248
Chord:	24.995	Course:	N 34° 00' 13.1620" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	2+019.397	10014258.766	752272.678
SPI:		10014265.879	752277.027
ET:	2+044.397	10014280.653	752284.750

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.671
Radius:	186.310	S Tan:	8.337
Theta:	03° 50' 38.8255"	P:	0.140
X:	24.989	K:	12.498
Y:	0.559	A:	68.248
Chord:	24.995	Course:	N 28° 52' 41.0430" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+044.397	10014280.653	752284.750
Fin:	2+058.627	10014293.264	752291.341

Tangent Data

Parameter	Value	Parameter	Value
Length:	14.229	Course:	N 27° 35' 48.2770" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	2+058.627	10014293.264	752291.341
SPI:		10014311.035	752300.630
EE:	2+088.627	10014318.688	752307.141

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.052
Radius:	67.185	S Tan:	10.048

Theta:	12° 47' 31.5016"	P:	0.557
X:	29.851	K:	14.975
Y:	2.225	A:	44.895
Chord:	29.934	Course:	N 31° 51' 32.2921" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	2+088.627	10014318.688	752307.141
SPI:		10014326.341	752313.652
ET:	2+118.627	10014338.358	752329.704

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.052
Radius:	67.185	S Tan:	10.048
Theta:	12° 47' 31.5016"	P:	0.557
X:	29.851	K:	14.975
Y:	2.225	A:	44.895
Chord:	29.934	Course:	N 48° 55' 07.2652" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+118.627	10014338.358	752329.704
Fin:	2+121.487	10014340.072	752331.994

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.860	Course:	N 53° 10' 51.2803" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	2+121.487	10014340.072	752331.994
SPI:		10014352.168	752348.152
EE:	2+151.487	10014361.026	752353.142

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.184
Radius:	36.129	S Tan:	10.167
Theta:	23° 47' 16.4929"	P:	1.032
X:	29.487	K:	14.914
Y:	4.101	A:	32.922
Chord:	29.771	Course:	N 45° 15' 47.6120" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	2+151.487	10014361.026	752353.142
SPI:		10014369.885	752358.132
ET:	2+181.487	10014389.972	752360.103

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.184
Radius:	36.129	S Tan:	10.167
Theta:	23° 47' 16.4929"	P:	1.032
X:	29.487	K:	14.914
Y:	4.101	A:	32.922
Chord:	29.771	Course:	N 13° 31' 21.9628" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+181.487	10014389.972	752360.103

Fin:	2+196.636	10014405.048	752361.583

Tangent Data

Parameter	Value	Parameter	Value
Length:	15.149	Course:	N 05° 36' 18.2945" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	2+196.636	10014405.048	752361.583
SPI:		10014425.008	752363.542
EC:	2+226.636	10014434.522	752366.785

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.056
Radius:	65.000	S Tan:	10.051
Theta:	13° 13' 19.5707"	P:	0.576
X:	29.841	K:	14.973
Y:	2.299	A:	44.159
Chord:	29.929	Course:	N 10° 00' 37.6557" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	2+226.636	10014434.522	752366.785
RP:		10014413.545	752428.308
CE:	2+253.674	10014457.593	752380.508

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	23° 50' 00.5299"	Type:	RIGHT
Radius:	65.000		
Length:	27.038	Tangent:	13.717
Mid-Ord:	1.401	External:	1.432
Chord:	26.844	Course:	N 30° 44' 38.1301" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	2+253.674	10014457.593	752380.508
SPI:		10014464.984	752387.319
ET:	2+283.674	10014476.233	752403.923

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.056
Radius:	65.000	S Tan:	10.051
Theta:	13° 13' 19.5707"	P:	0.576
X:	29.841	K:	14.973
Y:	2.299	A:	44.159
Chord:	29.929	Course:	N 51° 28' 38.6045" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+283.674	10014476.233	752403.923
Fin:	2+286.943	10014478.067	752406.629

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.269	Course:	N 55° 52' 57.9656" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	2+286.943	10014478.067	752406.629
SPI:		10014489.294	752423.201

EC:	2+316.943	10014495.901	752430.727

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.016
Radius:	120.000	S Tan:	10.015
Theta:	07° 09' 43.1007"	P:	0.312
X:	29.953	K:	14.992
Y:	1.249	A:	60.000
Chord:	29.979	Course:	N 53° 29' 44.7360" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	2+316.943	10014495.901	752430.727
RP:		10014586.081	752351.560
CE:	2+341.004	10014513.475	752447.102

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 29' 17.2276"	Type:	LEFT
Radius:	120.000		
Length:	24.061	Tangent:	12.071
Mid-Ord:	0.603	External:	0.606
Chord:	24.020	Course:	N 42° 58' 36.2511" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	2+341.004	10014513.475	752447.102
SPI:		10014521.449	752453.161
ET:	2+371.004	10014538.771	752463.191

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.016
Radius:	120.000	S Tan:	10.015
Theta:	07° 09' 43.1007"	P:	0.312
X:	29.953	K:	14.992
Y:	1.249	A:	60.000
Chord:	29.979	Course:	N 32° 27' 27.7662" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+371.004	10014538.771	752463.191
Fin:	2+417.359	10014578.887	752486.418

Tangent Data

Parameter	Value	Parameter	Value
Length:	46.355	Course:	N 30° 04' 14.5366" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	2+417.359	10014578.887	752486.418
RP:		10014618.972	752417.185
PT:	2+458.408	10014618.035	752497.180

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	29° 23' 56.8220"	Type:	LEFT
Radius:	80.000		
Length:	41.049	Tangent:	20.987
Mid-Ord:	2.618	External:	2.707
Chord:	40.600	Course:	N 15° 22' 16.1256" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+458.408	10014618.035	752497.180
Fin:	2+515.594	10014675.217	752497.850

Tangent Data

Parameter	Value	Parameter	Value
Length:	57.186	Course:	N 00° 40' 17.7146" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	2+515.594	10014675.217	752497.850
SPI:		10014695.311	752498.086
EC:	2+545.594	10014704.911	752501.179

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 06° 23' 48.4454" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	2+545.594	10014704.911	752501.179
RP:		10014689.576	752548.769
CE:	2+574.404	10014728.365	752517.218

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	33° 00' 50.7650"	Type:	RIGHT
Radius:	50.000		
Length:	28.810	Tangent:	14.817
Mid-Ord:	2.061	External:	2.149
Chord:	28.413	Course:	N 34° 22' 02.5389" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	2+574.404	10014728.365	752517.218
SPI:		10014734.729	752525.043
ET:	2+604.404	10014742.237	752543.683

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 62° 20' 16.6325" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+604.404	10014742.237	752543.683
Fin:	2+642.817	10014756.587	752579.315

Tangent Data

Parameter	Value	Parameter	Value
Length:	38.413	Course:	N 68° 03' 47.3633" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	2+642.817	10014756.587	752579.315
RP:		10014571.068	752654.032
PT:	2+673.148	10014765.745	752608.199

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 41' 20.5919"	Type:	RIGHT
Radius:	200.000		
Length:	30.331	Tangent:	15.194
Mid-Ord:	0.575	External:	0.576
Chord:	30.301	Course:	N 72° 24' 27.6592" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+673.148	10014765.745	752608.199
Fin:	2+722.539	10014777.064	752656.276

Tangent Data

Parameter	Value	Parameter	Value
Length:	49.391	Course:	N 76° 45' 07.9552" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	2+722.539	10014777.064	752656.276
SPI:		10014781.658	752675.788
EC:	2+752.539	10014785.931	752684.875

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.046
Radius:	72.000	S Tan:	10.042
Theta:	11° 56' 11.8346"	P:	0.520
X:	29.870	K:	14.978
Y:	2.077	A:	46.476
Chord:	29.942	Course:	N 72° 46' 29.2789" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	2+752.539	10014785.931	752684.875
RP:		10014851.087	752654.237
CE:	2+765.509	10014792.475	752696.053

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 19' 17.8936"	Type:	LEFT
Radius:	72.000		
Length:	12.971	Tangent:	6.503
Mid-Ord:	0.292	External:	0.293
Chord:	12.953	Course:	N 59° 39' 17.1738" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	2+765.509	10014792.475	752696.053
SPI:		10014798.307	752704.228
ET:	2+795.509	10014813.072	752717.785

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.046
Radius:	72.000	S Tan:	10.042
Theta:	11° 56' 11.8346"	P:	0.520
X:	29.870	K:	14.978

Y:	2.077	A:	46.476
Chord:	29.942	Course:	N 46° 32' 05.0686" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+795.509	10014813.072	752717.785
Fin:	2+836.795	10014843.484	752745.708

Tangent Data

Parameter	Value	Parameter	Value
Length:	41.286	Course:	N 42° 33' 26.3923" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	2+836.795	10014843.484	752745.708
RP:		10014640.585	752966.688
PT:	2+876.928	10014871.145	752774.745

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 39' 53.6790"	Type:	RIGHT
Radius:	300.000		
Length:	40.133	Tangent:	20.097
Mid-Ord:	0.671	External:	0.672
Chord:	40.103	Course:	N 46° 23' 23.2318" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+876.928	10014871.145	752774.745
Fin:	2+937.471	10014909.881	752821.274

Tangent Data

Parameter	Value	Parameter	Value
Length:	60.542	Course:	N 50° 13' 20.0713" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	2+937.471	10014909.881	752821.274
RP:		10015025.160	752725.302
PT:	2+984.746	10014945.307	752852.280

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 03' 27.4377"	Type:	LEFT
Radius:	150.000		
Length:	47.275	Tangent:	23.835
Mid-Ord:	1.859	External:	1.882
Chord:	47.079	Course:	N 41° 11' 36.3525" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	2+984.746	10014945.307	752852.280
Fin:	3+041.073	10014992.989	752882.266

Tangent Data

Parameter	Value	Parameter	Value
Length:	56.327	Course:	N 32° 09' 52.6336" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+041.073	10014992.989	752882.266
SPI:		10015007.171	752891.185
EE:	3+066.073	10015015.327	752893.249

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.753
Radius:	39.872	S Tan:	8.412
Theta:	17° 57' 44.6732"	P:	0.651
X:	24.755	K:	12.459
Y:	2.594	A:	31.572
Chord:	24.891	Course:	N 26° 10' 55.7198" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	3+066.073	10015015.327	752893.249
SPI:		10015023.482	752895.313
ET:	3+091.073	10015040.199	752894.214

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.753
Radius:	39.872	S Tan:	8.412
Theta:	17° 57' 44.6732"	P:	0.651
X:	24.755	K:	12.459
Y:	2.594	A:	31.572
Chord:	24.891	Course:	N 02° 13' 20.2010" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	3+091.073	10015040.199	752894.214
Fin:	3+092.454	10015041.578	752894.123

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.382	Course:	N 03° 45' 36.7128" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+092.454	10015041.578	752894.123
SPI:		10015060.995	752892.847
EE:	3+121.454	10015069.940	752888.887

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	29.000	L Tan:	19.460
Radius:	41.290	S Tan:	9.782
Theta:	20° 07' 14.2859"	P:	0.845
X:	28.644	K:	14.441
Y:	3.365	A:	34.604
Chord:	28.841	Course:	N 10° 27' 36.1924" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	3+121.454	10015069.940	752888.887
SPI:		10015078.884	752884.927
ET:	3+150.454	10015092.882	752871.409

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	29.000	L Tan:	19.460
Radius:	41.290	S Tan:	9.782
Theta:	20° 07' 14.2859"	P:	0.845
X:	28.644	K:	14.441
Y:	3.365	A:	34.604
Chord:	28.841	Course:	N 37° 18' 05.8051" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	3+150.454	10015092.882	752871.409
Fin:	3+154.707	10015095.941	752868.455

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.253	Course:	N 44° 00' 05.2846" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+154.707	10015095.941	752868.455
SPI:		10015110.652	752854.248
EE:	3+184.707	10015120.982	752852.952

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.451
Radius:	23.319	S Tan:	10.412
Theta:	36° 51' 18.5188"	P:	1.585
X:	28.782	K:	14.795
Y:	6.245	A:	26.450
Chord:	29.452	Course:	N 31° 45' 35.5933" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	3+184.707	10015120.982	752852.952
SPI:		10015131.313	752851.657
ET:	3+214.707	10015149.076	752861.793

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.451
Radius:	23.319	S Tan:	10.412
Theta:	36° 51' 18.5188"	P:	1.585
X:	28.782	K:	14.795
Y:	6.245	A:	26.450
Chord:	29.452	Course:	N 17° 28' 02.0617" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	3+214.707	10015149.076	752861.793
Fin:	3+239.507	10015170.616	752874.083

Tangent Data

Parameter	Value	Parameter	Value
Length:	24.800	Course:	N 29° 42' 31.7529" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+239.507	10015170.616	752874.083
SPI:		10015188.221	752884.128
EC:	3+269.507	10015198.463	752884.318

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.268
Radius:	30.000	S Tan:	10.244
Theta:	28° 38' 52.4031"	P:	1.239
X:	29.259	K:	14.876
Y:	4.911	A:	30.000
Chord:	29.668	Course:	N 20° 10' 47.4852" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	3+269.507	10015198.463	752884.318
RP:		10015199.019	752854.323
CE:	3+297.346	10015222.694	752872.749

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	53° 10' 04.5721"	Type:	LEFT
Radius:	30.000		
Length:	27.839	Tangent:	15.012
Mid-Ord:	3.172	External:	3.547
Chord:	26.851	Course:	N 25° 31' 22.9362" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	3+297.346	10015222.694	752872.749
SPI:		10015228.986	752864.664
ET:	3+327.346	10015232.242	752844.659

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.268
Radius:	30.000	S Tan:	10.244
Theta:	28° 38' 52.4031"	P:	1.239
X:	29.259	K:	14.876
Y:	4.911	A:	30.000
Chord:	29.668	Course:	N 71° 13' 33.3576" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	3+327.346	10015232.242	752844.659
Fin:	3+328.582	10015232.440	752843.439

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.236	Course:	N 80° 45' 17.6253" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+328.582	10015232.440	752843.439
SPI:		10015235.669	752823.605
EC:	3+358.582	10015240.159	752814.573

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 75° 01' 46.8944" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	3+358.582	10015240.159	752814.573
RP:		10015284.931	752836.832
CE:	3+398.892	10015270.002	752789.113

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	46° 11' 34.2806"	Type:	RIGHT

Radius:	50.000		
Length:	40.311	Tangent:	21.323
Mid-Ord:	4.008	External:	4.357
Chord:	39.228	Course:	N 40° 28' 11.0431" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	3+398.892	10015270.002	752789.113
SPI:		10015279.628	752786.101
ET:	3+428.892	10015299.723	752786.036

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 05° 54' 35.1918" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	3+428.892	10015299.723	752786.036
Fin:	3+497.954	10015368.785	752785.814

Tangent Data

Parameter	Value	Parameter	Value
Length:	69.062	Course:	N 00° 11' 04.4609" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+497.954	10015368.785	752785.814
SPI:		10015385.651	752785.759
EE:	3+522.954	10015393.219	752781.857

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.866
Radius:	26.433	S Tan:	8.515
Theta:	27° 05' 40.0512"	P:	0.977
X:	24.447	K:	12.407
Y:	3.878	A:	25.707
Chord:	24.752	Course:	N 09° 11' 55.9249" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	3+522.954	10015393.219	752781.857
SPI:		10015400.787	752777.954
ET:	3+547.954	10015410.611	752764.245

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.866
Radius:	26.433	S Tan:	8.515
Theta:	27° 05' 40.0512"	P:	0.977
X:	24.447	K:	12.407
Y:	3.878	A:	25.707
Chord:	24.752	Course:	N 45° 21' 33.0994" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	3+547.954	10015410.611	752764.245

Fin:	3+558.615	10015416.821	752755.580

Tangent Data

Parameter	Value	Parameter	Value
Length:	10.660	Course:	N 54° 22' 24.5634" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+558.615	10015416.821	752755.580
SPI:		10015426.625	752741.898
EC:	3+583.615	10015433.996	752737.698

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.832
Radius:	29.000	S Tan:	8.484
Theta:	24° 41' 47.2441"	P:	0.892
X:	24.540	K:	12.423
Y:	3.545	A:	26.926
Chord:	24.794	Course:	N 46° 09' 15.6382" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	3+583.615	10015433.996	752737.698
RP:		10015448.354	752762.894
CE:	3+641.825	10015477.258	752760.533

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	115° 00' 25.5960"	Type:	RIGHT
Radius:	29.000		
Length:	58.210	Tangent:	45.527
Mid-Ord:	13.420	External:	24.979
Chord:	48.919	Course:	N 27° 49' 35.4787" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	3+641.825	10015477.258	752760.533
SPI:		10015477.949	752768.988
ET:	3+666.825	10015472.185	752784.802

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.832
Radius:	29.000	S Tan:	8.484
Theta:	24° 41' 47.2441"	P:	0.892
X:	24.540	K:	12.423
Y:	3.545	A:	26.926
Chord:	24.794	Course:	S 78° 11' 33.4044" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	3+666.825	10015472.185	752784.802
Fin:	3+712.522	10015456.536	752827.736

Tangent Data

Parameter	Value	Parameter	Value
Length:	45.696	Course:	S 69° 58' 24.4792" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+712.522	10015456.536	752827.736
SPI:		10015447.350	752852.937

EC:	3+752.522	10015447.132	752866.412

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	40.000	L Tan:	26.824
Radius:	60.000	S Tan:	13.476
Theta:	19° 05' 54.9354"	P:	1.107
X:	39.558	K:	19.926
Y:	4.409	A:	48.990
Chord:	39.803	Course:	S 76° 20' 01.1753" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	3+752.522	10015447.132	752866.412
RP:		10015507.124	752867.383
CE:	3+836.308	10015495.760	752926.297

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	80° 00' 37.0883"	Type:	LEFT
Radius:	60.000		
Length:	83.787	Tangent:	50.355
Mid-Ord:	14.041	External:	18.330
Chord:	77.143	Course:	N 50° 55' 22.0412" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	3+836.308	10015495.760	752926.297
SPI:		10015508.992	752928.850
ET:	3+876.308	10015535.543	752925.033

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	40.000	L Tan:	26.824
Radius:	60.000	S Tan:	13.476
Theta:	19° 05' 54.9354"	P:	1.107
X:	39.558	K:	19.926
Y:	4.409	A:	48.990
Chord:	39.803	Course:	N 01° 49' 14.7422" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	3+876.308	10015535.543	752925.033
Fin:	3+929.901	10015588.590	752917.407

Tangent Data

Parameter	Value	Parameter	Value
Length:	53.593	Course:	N 08° 10' 51.4383" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	3+929.901	10015588.590	752917.407
SPI:		10015608.470	752914.549
EC:	3+959.901	10015618.448	752915.957

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.085
Radius:	53.000	S Tan:	10.077
Theta:	16° 12' 56.8320"	P:	0.706
X:	29.761	K:	14.960
Y:	2.814	A:	39.875
Chord:	29.893	Course:	N 02° 46' 45.7150" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	3+959.901	10015618.448	752915.957
RP:		10015611.040	752968.437
CE:	3+984.590	10015641.231	752924.876

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	26° 41' 24.7075"	Type:	RIGHT
Radius:	53.000		
Length:	24.689	Tangent:	12.573
Mid-Ord:	1.431	External:	1.471
Chord:	24.466	Course:	N 21° 22' 47.7474" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	3+984.590	10015641.231	752924.876
SPI:		10015649.513	752930.617
ET:	4+014.590	10015662.169	752946.212

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.085
Radius:	53.000	S Tan:	10.077
Theta:	16° 12' 56.8320"	P:	0.706
X:	29.761	K:	14.960
Y:	2.814	A:	39.875
Chord:	29.893	Course:	N 45° 32' 21.2097" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+014.590	10015662.169	752946.212
Fin:	4+018.205	10015664.447	752949.019

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.615	Course:	N 50° 56' 26.9331" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	4+018.205	10015664.447	752949.019
SPI:		10015677.068	752964.572
EC:	4+048.205	10015684.590	752971.202

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.000	S Tan:	10.027
Theta:	09° 32' 57.4677"	P:	0.416
X:	29.917	K:	14.986
Y:	1.663	A:	51.962
Chord:	29.963	Course:	N 47° 45' 30.4737" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	4+048.205	10015684.590	752971.202
RP:		10015744.098	752903.683
CE:	4+066.691	10015699.612	752981.919

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 46' 06.4790"	Type:	LEFT

Radius:	90.000		
Length:	18.486	Tangent:	9.276
Mid-Ord:	0.474	External:	0.477
Chord:	18.453	Course:	N 35° 30' 26.2259" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	4+066.691	10015699.612	752981.919
SPI:		10015708.328	752986.875
ET:	4+096.691	10015727.140	752993.750

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.000	S Tan:	10.027
Theta:	09° 32' 57.4677"	P:	0.416
X:	29.917	K:	14.986
Y:	1.663	A:	51.962
Chord:	29.963	Course:	N 23° 15' 21.9782" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+096.691	10015727.140	752993.750
Fin:	4+103.931	10015733.940	752996.235

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.240	Course:	N 20° 04' 25.5188" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	4+103.931	10015733.940	752996.235
SPI:		10015752.747	753003.108
EC:	4+133.931	10015762.568	753005.102

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.024
Radius:	100.000	S Tan:	10.021
Theta:	08° 35' 39.7209"	P:	0.375
X:	29.933	K:	14.989
Y:	1.498	A:	54.772
Chord:	29.970	Course:	N 17° 12' 34.2440" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	4+133.931	10015762.568	753005.102
RP:		10015782.470	752907.102
CE:	4+147.328	10015775.836	753006.882

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 40' 32.5955"	Type:	LEFT
Radius:	100.000		
Length:	13.397	Tangent:	6.708
Mid-Ord:	0.224	External:	0.225
Chord:	13.387	Course:	N 07° 38' 29.5001" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	4+147.328	10015775.836	753006.882
SPI:		10015785.836	753007.547

ET:	4+177.328	10015805.789	753005.875

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.024
Radius:	100.000	S Tan:	10.021
Theta:	08° 35' 39.7209"	P:	0.375
X:	29.933	K:	14.989
Y:	1.498	A:	54.772
Chord:	29.970	Course:	N 01° 55' 35.2438" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+177.328	10015805.789	753005.875
Fin:	4+228.010	10015856.294	753001.642

Tangent Data

Parameter	Value	Parameter	Value
Length:	50.682	Course:	N 04° 47' 26.5186" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	4+228.010	10015856.294	753001.642
SPI:		10015876.254	752999.969
EC:	4+258.010	10015885.968	752997.486

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.000	S Tan:	10.027
Theta:	09° 32' 57.4677"	P:	0.416
X:	29.917	K:	14.986
Y:	1.663	A:	51.962
Chord:	29.963	Course:	N 07° 58' 22.9780" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	4+258.010	10015885.968	752997.486
RP:		10015863.677	752910.290
CE:	4+285.816	10015911.425	752986.580

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	17° 42' 05.6064"	Type:	LEFT
Radius:	90.000		
Length:	27.806	Tangent:	14.014
Mid-Ord:	1.072	External:	1.085
Chord:	27.695	Course:	N 23° 11' 26.7895" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	4+285.816	10015911.425	752986.580
SPI:		10015919.924	752981.260
ET:	4+315.816	10015934.904	752967.965

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.000	S Tan:	10.027
Theta:	09° 32' 57.4677"	P:	0.416
X:	29.917	K:	14.986
Y:	1.663	A:	51.962
Chord:	29.963	Course:	N 38° 24' 30.6010" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+315.816	10015934.904	752967.965
Fin:	4+335.037	10015949.280	752955.206

Tangent Data

Parameter	Value	Parameter	Value
Length:	19.221	Course:	N 41° 35' 27.0604" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	4+335.037	10015949.280	752955.206
RP:		10016148.422	753179.577
PT:	4+368.922	10015975.838	752934.190

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	06° 28' 17.8270"	Type:	RIGHT
Radius:	300.000		
Length:	33.885	Tangent:	16.961
Mid-Ord:	0.478	External:	0.479
Chord:	33.867	Course:	N 38° 21' 18.1469" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+368.922	10015975.838	752934.190
Fin:	4+393.617	10015996.037	752919.983

Tangent Data

Parameter	Value	Parameter	Value
Length:	24.695	Course:	N 35° 07' 09.2334" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	4+393.617	10015996.037	752919.983
RP:		10015915.498	752805.469
PT:	4+424.867	10016019.388	752899.314

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	12° 47' 20.9771"	Type:	LEFT
Radius:	140.000		
Length:	31.250	Tangent:	15.690
Mid-Ord:	0.871	External:	0.876
Chord:	31.185	Course:	N 41° 30' 49.7220" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+424.867	10016019.388	752899.314
Fin:	4+467.864	10016048.210	752867.407

Tangent Data

Parameter	Value	Parameter	Value
Length:	42.997	Course:	N 47° 54' 30.2105" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	4+467.864	10016048.210	752867.407
SPI:		10016061.649	752852.530
EC:	4+497.864	10016069.812	752846.679

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value

Length:	30.000	L Tan:	20.048
Radius:	70.000	S Tan:	10.044
Theta:	12° 16' 39.6013"	P:	0.535
X:	29.863	K:	14.977
Y:	2.136	A:	45.826
Chord:	29.939	Course:	N 43° 49' 02.7436" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	4+497.864	10016069.812	752846.679
RP:		10016110.591	752903.574
CE:	4+521.048	10016090.530	752836.510

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 58' 35.5985"	Type:	RIGHT
Radius:	70.000		
Length:	23.184	Tangent:	11.699
Mid-Ord:	0.958	External:	0.971
Chord:	23.078	Course:	N 26° 08' 32.8099" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	4+521.048	10016090.530	752836.510
SPI:		10016100.152	752833.632
ET:	4+551.048	10016120.142	752832.102

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.048
Radius:	70.000	S Tan:	10.044
Theta:	12° 16' 39.6013"	P:	0.535
X:	29.863	K:	14.977
Y:	2.136	A:	45.826
Chord:	29.939	Course:	N 08° 28' 02.8762" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+551.048	10016120.142	752832.102
Fin:	4+617.996	10016186.895	752826.993

Tangent Data

Parameter	Value	Parameter	Value
Length:	66.948	Course:	N 04° 22' 35.4094" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	4+617.996	10016186.895	752826.993
RP:		10016175.449	752677.430
PT:	4+687.880	10016252.862	752805.910

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	26° 41' 37.5150"	Type:	LEFT
Radius:	150.000		
Length:	69.884	Tangent:	35.588
Mid-Ord:	4.051	External:	4.164
Chord:	69.254	Course:	N 17° 43' 24.1669" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+687.880	10016252.862	752805.910

Fin:	4+725.524	10016285.105	752786.483

Tangent Data

Parameter	Value	Parameter	Value
Length:	37.644	Course:	N 31° 04' 12.9243" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	4+725.524	10016285.105	752786.483
RP:		10016181.887	752615.176
PT:	4+744.415	10016300.802	752775.984

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	05° 24' 42.6442"	Type:	LEFT
Radius:	200.000		
Length:	18.891	Tangent:	9.452
Mid-Ord:	0.223	External:	0.223
Chord:	18.884	Course:	N 33° 46' 34.2465" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+744.415	10016300.802	752775.984
Fin:	4+773.761	10016324.398	752758.536

Tangent Data

Parameter	Value	Parameter	Value
Length:	29.347	Course:	N 36° 28' 55.5686" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	4+773.761	10016324.398	752758.536
RP:		10016461.149	752943.466
PT:	4+789.182	10016337.094	752749.789

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 50' 29.3147"	Type:	RIGHT
Radius:	230.000		
Length:	15.421	Tangent:	7.713
Mid-Ord:	0.129	External:	0.129
Chord:	15.418	Course:	N 34° 33' 40.9112" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+789.182	10016337.094	752749.789
Fin:	4+834.761	10016375.475	752725.206

Tangent Data

Parameter	Value	Parameter	Value
Length:	45.579	Course:	N 32° 38' 26.2538" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	4+834.761	10016375.475	752725.206
RP:		10016251.420	752531.530
PT:	4+877.875	10016409.395	752698.694

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 44' 25.0071"	Type:	LEFT
Radius:	230.000		
Length:	43.114	Tangent:	21.620
Mid-Ord:	1.009	External:	1.014

Chord:	43.051	Course:	N 38° 00' 38.7574" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+877.875	10016409.395	752698.694
Fin:	4+913.319	10016435.156	752674.350

Tangent Data

Parameter	Value	Parameter	Value
Length:	35.444	Course:	N 43° 22' 51.2609" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	4+913.319	10016435.156	752674.350
Fin:	4+950.447	10016461.963	752648.662

Tangent Data

Parameter	Value	Parameter	Value
Length:	37.128	Course:	N 43° 46' 42.8475" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	4+950.447	10016461.963	752648.662
SPI:		10016474.012	752637.116
EC:	4+975.447	10016479.070	752630.469

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.688
Radius:	80.000	S Tan:	8.353
Theta:	08° 57' 08.8760"	P:	0.325
X:	24.939	K:	12.490
Y:	1.300	A:	44.721
Chord:	24.973	Course:	N 46° 45' 43.5845" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	4+975.447	10016479.070	752630.469
RP:		10016415.406	752582.024
CE:	4+996.537	10016489.494	752612.205

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 06' 15.9060"	Type:	LEFT
Radius:	80.000		
Length:	21.090	Tangent:	10.606
Mid-Ord:	0.694	External:	0.700
Chord:	21.029	Course:	N 60° 16' 59.6765" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	4+996.537	10016489.494	752612.205
SPI:		10016492.645	752604.470
ET:	5+021.537	10016496.460	752588.224

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.688
Radius:	80.000	S Tan:	8.353
Theta:	08° 57' 08.8760"	P:	0.325
X:	24.939	K:	12.490
Y:	1.300	A:	44.721
Chord:	24.973	Course:	N 73° 48' 15.7685" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+021.537	10016496.460	752588.224
Fin:	5+025.279	10016497.315	752584.581

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.742	Course:	N 76° 47' 16.5055" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+025.279	10016497.315	752584.581
SPI:		10016500.363	752571.597
EC:	5+045.279	10016501.451	752565.017

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.336
Radius:	150.000	S Tan:	6.669
Theta:	03° 49' 10.9871"	P:	0.111
X:	19.991	K:	9.999
Y:	0.444	A:	54.772
Chord:	19.996	Course:	N 78° 03' 39.9954" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+045.279	10016501.451	752565.017
RP:		10016353.462	752540.538
CE:	5+070.690	10016503.460	752539.717

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 42' 21.7271"	Type:	LEFT
Radius:	150.000		
Length:	25.410	Tangent:	12.736
Mid-Ord:	0.538	External:	0.540
Chord:	25.380	Course:	N 85° 27' 38.3562" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+070.690	10016503.460	752539.717
SPI:		10016503.424	752533.047
ET:	5+090.690	10016502.462	752519.746

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.336
Radius:	150.000	S Tan:	6.669
Theta:	03° 49' 10.9871"	P:	0.111
X:	19.991	K:	9.999
Y:	0.444	A:	54.772
Chord:	19.996	Course:	S 87° 08' 23.2830" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+090.690	10016502.462	752519.746
Fin:	5+090.711	10016502.461	752519.724

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.021	Course:	S 85° 51' 59.7896" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+090.711	10016502.461	752519.724
SPI:		10016501.497	752506.382
EC:	5+110.711	10016502.683	752499.781

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.377
Radius:	40.000	S Tan:	6.707
Theta:	14° 19' 26.2016"	P:	0.416
X:	19.875	K:	9.979
Y:	1.659	A:	28.284
Chord:	19.944	Course:	N 89° 21' 40.5814" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+110.711	10016502.683	752499.781
RP:		10016542.052	752506.858
CE:	5+134.740	10016513.576	752478.767

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	34° 25' 10.7533"	Type:	RIGHT
Radius:	40.000		
Length:	24.029	Tangent:	12.390
Mid-Ord:	1.791	External:	1.875
Chord:	23.670	Course:	N 62° 35' 58.6287" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+134.740	10016513.576	752478.767
SPI:		10016518.286	752473.992
ET:	5+154.740	10016529.745	752467.089

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.377
Radius:	40.000	S Tan:	6.707
Theta:	14° 19' 26.2016"	P:	0.416
X:	19.875	K:	9.979
Y:	1.659	A:	28.284
Chord:	19.944	Course:	N 35° 50' 16.6759" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+154.740	10016529.745	752467.089
Fin:	5+181.084	10016552.310	752453.496

Tangent Data

Parameter	Value	Parameter	Value
Length:	26.344	Course:	N 31° 03' 57.0504" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+181.084	10016552.310	752453.496
SPI:		10016563.732	752446.614
EC:	5+201.084	10016569.281	752442.918

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.335
Radius:	220.000	S Tan:	6.668

Theta:	02° 36' 15.6730"	P:	0.076
X:	19.996	K:	9.999
Y:	0.303	A:	66.332
Chord:	19.998	Course:	N 31° 56' 02.2201" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+201.084	10016569.281	752442.918
RP:		10016447.311	752259.824
CE:	5+219.813	10016584.408	752431.883

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 52' 39.8181"	Type:	LEFT
Radius:	220.000		
Length:	18.729	Tangent:	9.370
Mid-Ord:	0.199	External:	0.199
Chord:	18.723	Course:	N 36° 06' 32.6325" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+219.813	10016584.408	752431.883
SPI:		10016589.623	752427.728
ET:	5+239.813	10016599.664	752418.953

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.335
Radius:	220.000	S Tan:	6.668
Theta:	02° 36' 15.6730"	P:	0.076
X:	19.996	K:	9.999
Y:	0.303	A:	66.332
Chord:	19.998	Course:	N 40° 17' 03.0449" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+239.813	10016599.664	752418.953
Fin:	5+241.499	10016600.933	752417.844

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.686	Course:	N 41° 09' 08.2146" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+241.499	10016600.933	752417.844
SPI:		10016611.005	752409.041
EC:	5+261.499	10016616.990	752406.014

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.377
Radius:	40.000	S Tan:	6.707
Theta:	14° 19' 26.2016"	P:	0.416
X:	19.875	K:	9.979
Y:	1.659	A:	28.284
Chord:	19.944	Course:	N 36° 22' 48.5891" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+261.499	10016616.990	752406.014
RP:		10016635.043	752441.708

CE:	5+309.421	10016661.712	752411.897

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	68° 38' 38.4875"	Type:	RIGHT
Radius:	40.000		
Length:	47.923	Tangent:	27.309
Mid-Ord:	6.965	External:	8.433
Chord:	45.107	Course:	N 07° 29' 37.2307" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+309.421	10016661.712	752411.897
SPI:		10016666.711	752416.368
ET:	5+329.421	10016674.164	752427.477

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.377
Radius:	40.000	S Tan:	6.707
Theta:	14° 19' 26.2016"	P:	0.416
X:	19.875	K:	9.979
Y:	1.659	A:	28.284
Chord:	19.944	Course:	N 51° 22' 03.0505" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+329.421	10016674.164	752427.477
Fin:	5+345.169	10016682.938	752440.553

Tangent Data

Parameter	Value	Parameter	Value
Length:	15.747	Course:	N 56° 08' 22.6760" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+345.169	10016682.938	752440.553
SPI:		10016690.368	752451.627
EC:	5+365.169	10016694.355	752456.971

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.335
Radius:	200.000	S Tan:	6.668
Theta:	02° 51' 53.2403"	P:	0.083
X:	19.995	K:	9.999
Y:	0.333	A:	63.246
Chord:	19.998	Course:	N 55° 11' 05.0020" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+365.169	10016694.355	752456.971
RP:		10016854.658	752337.376
CE:	5+386.451	10016707.965	752473.321

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	06° 05' 49.2129"	Type:	LEFT
Radius:	200.000		
Length:	21.283	Tangent:	10.651
Mid-Ord:	0.283	External:	0.283
Chord:	21.273	Course:	N 50° 13' 34.8292" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+386.451	10016707.965	752473.321
SPI:		10016712.497	752478.212
ET:	5+406.451	10016722.039	752487.528

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.335
Radius:	200.000	S Tan:	6.668
Theta:	02° 51' 53.2403"	P:	0.083
X:	19.995	K:	9.999
Y:	0.333	A:	63.246
Chord:	19.998	Course:	N 45° 16' 04.6565" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+406.451	10016722.039	752487.528
Fin:	5+409.753	10016724.401	752489.834

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.301	Course:	N 44° 18' 46.9824" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+409.753	10016724.401	752489.834
SPI:		10016733.973	752499.179
EC:	5+429.753	10016739.782	752502.531

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.377
Radius:	40.000	S Tan:	6.707
Theta:	14° 19' 26.2016"	P:	0.416
X:	19.875	K:	9.979
Y:	1.659	A:	28.284
Chord:	19.944	Course:	N 39° 32' 27.3570" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+429.753	10016739.782	752502.531
RP:		10016759.775	752467.886
CE:	5+468.443	10016776.953	752504.010

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	55° 25' 14.2563"	Type:	LEFT
Radius:	40.000		
Length:	38.691	Tangent:	21.010
Mid-Ord:	4.588	External:	5.182
Chord:	37.200	Course:	N 02° 16' 43.6528" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+468.443	10016776.953	752504.010
SPI:		10016783.009	752501.130
ET:	5+488.443	10016793.294	752492.575

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.377
Radius:	40.000	S Tan:	6.707

Theta:	14° 19' 26.2016"	P:	0.416
X:	19.875	K:	9.979
Y:	1.659	A:	28.284
Chord:	19.944	Course:	N 34° 59' 00.0515" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+488.443	10016793.294	752492.575
Fin:	5+492.139	10016796.135	752490.212

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.696	Course:	N 39° 45' 19.6770" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+492.139	10016796.135	752490.212
SPI:		10016806.412	752481.663
EC:	5+512.139	10016812.379	752478.619

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.368
Radius:	45.000	S Tan:	6.698
Theta:	12° 43' 56.6236"	P:	0.370
X:	19.901	K:	9.984
Y:	1.476	A:	30.000
Chord:	19.956	Course:	N 35° 30' 47.1974" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+512.139	10016812.379	752478.619
RP:		10016832.825	752518.706
CE:	5+531.801	10016831.263	752473.734

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	25° 02' 02.0329"	Type:	RIGHT
Radius:	45.000		
Length:	19.662	Tangent:	9.990
Mid-Ord:	1.070	External:	1.096
Chord:	19.506	Course:	N 14° 30' 22.0369" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+531.801	10016831.263	752473.734
SPI:		10016837.957	752473.501
ET:	5+551.801	10016851.090	752475.993

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.368
Radius:	45.000	S Tan:	6.698
Theta:	12° 43' 56.6236"	P:	0.370
X:	19.901	K:	9.984
Y:	1.476	A:	30.000
Chord:	19.956	Course:	N 06° 30' 03.1237" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+551.801	10016851.090	752475.993
Fin:	5+573.006	10016871.924	752479.946

Tangent Data

Parameter	Value	Parameter	Value
Length:	21.205	Course:	N 10° 44' 35.6032" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+573.006	10016871.924	752479.946
SPI:		10016885.030	752482.433
EC:	5+593.006	10016891.678	752483.016

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.340
Radius:	100.000	S Tan:	6.673
Theta:	05° 43' 46.4806"	P:	0.167
X:	19.980	K:	9.997
Y:	0.666	A:	44.721
Chord:	19.991	Course:	N 08° 50' 00.6918" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+593.006	10016891.678	752483.016
RP:		10016900.417	752383.398
CE:	5+613.135	10016911.771	752482.752

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 31' 58.0897"	Type:	LEFT
Radius:	100.000		
Length:	20.129	Tangent:	10.098
Mid-Ord:	0.506	External:	0.509
Chord:	20.095	Course:	N 00° 45' 09.9223" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+613.135	10016911.771	752482.752
SPI:		10016918.401	752481.994
ET:	5+633.135	10016931.437	752479.164

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.340
Radius:	100.000	S Tan:	6.673
Theta:	05° 43' 46.4806"	P:	0.167
X:	19.980	K:	9.997
Y:	0.666	A:	44.721
Chord:	19.991	Course:	N 10° 20' 20.5364" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+633.135	10016931.437	752479.164
Fin:	5+665.821	10016963.380	752472.229

Tangent Data

Parameter	Value	Parameter	Value
Length:	32.686	Course:	N 12° 14' 55.4478" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	5+665.821	10016963.380	752472.229
SPI:		10016976.420	752469.398
EC:	5+685.821	10016983.070	752468.806

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.344
Radius:	80.000	S Tan:	6.677
Theta:	07° 09' 43.1008"	P:	0.208
X:	19.969	K:	9.995
Y:	0.832	A:	40.000
Chord:	19.986	Course:	N 09° 51' 42.2181" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	5+685.821	10016983.070	752468.806
RP:		10016990.163	752548.491
CE:	5+703.805	10017001.012	752469.230

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	12° 52' 48.6240"	Type:	RIGHT
Radius:	80.000		
Length:	17.984	Tangent:	9.030
Mid-Ord:	0.505	External:	0.508
Chord:	17.946	Course:	N 01° 21' 11.9650" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	5+703.805	10017001.012	752469.230
SPI:		10017007.627	752470.135
ET:	5+723.805	10017020.519	752473.579

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.344
Radius:	80.000	S Tan:	6.677
Theta:	07° 09' 43.1008"	P:	0.208
X:	19.969	K:	9.995
Y:	0.832	A:	40.000
Chord:	19.986	Course:	N 12° 34' 06.1482" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+723.805	10017020.519	752473.579
Fin:	5+788.232	10017082.763	752490.205

Tangent Data

Parameter	Value	Parameter	Value
Length:	64.427	Course:	N 14° 57' 19.3778" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	5+788.232	10017082.763	752490.205
RP:		10017056.956	752586.818
PT:	5+851.543	10017134.923	752524.199

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	36° 16' 28.4708"	Type:	RIGHT
Radius:	100.000		
Length:	63.311	Tangent:	32.757
Mid-Ord:	4.969	External:	5.228
Chord:	62.259	Course:	N 33° 05' 33.6132" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+851.543	10017134.923	752524.199
Fin:	5+914.208	10017174.164	752573.057

Tangent Data

Parameter	Value	Parameter	Value
Length:	62.665	Course:	N 51° 13' 47.8486" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	5+914.208	10017174.164	752573.057
RP:		10017209.249	752544.878
PT:	5+955.748	10017210.553	752589.859

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	52° 53' 25.1469"	Type:	LEFT
Radius:	45.000		
Length:	41.540	Tangent:	22.382
Mid-Ord:	4.709	External:	5.259
Chord:	40.081	Course:	N 24° 47' 05.2752" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	5+955.748	10017210.553	752589.859
Fin:	6+016.491	10017271.270	752588.099

Tangent Data

Parameter	Value	Parameter	Value
Length:	60.742	Course:	N 01° 39' 37.2983" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	6+016.491	10017271.270	752588.099
SPI:		10017291.356	752587.517
EC:	6+046.491	10017301.075	752590.217

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 04° 03' 53.4326" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	6+046.491	10017301.075	752590.217
RP:		10017287.689	752638.392
CE:	6+088.069	10017332.308	752615.828

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	47° 38' 44.9011"	Type:	RIGHT
Radius:	50.000		
Length:	41.579	Tangent:	22.077
Mid-Ord:	4.260	External:	4.657
Chord:	40.391	Course:	N 39° 21' 04.5942" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	6+088.069	10017332.308	752615.828

SPI:		10017336.860	752624.829
ET:	6+118.069	10017340.224	752644.640

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 74° 38' 15.7557" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	6+118.069	10017340.224	752644.640
Fin:	6+119.884	10017340.528	752646.429

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.815	Course:	N 80° 21' 46.4866" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	6+119.884	10017340.528	752646.429
SPI:		10017343.903	752666.311
EC:	6+149.884	10017349.321	752674.895

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.166
Radius:	38.000	S Tan:	10.151
Theta:	22° 37' 00.3182"	P:	0.981
X:	29.536	K:	14.922
Y:	3.904	A:	33.764
Chord:	29.793	Course:	N 72° 50' 02.3164" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	6+149.884	10017349.321	752674.895
RP:		10017381.457	752654.616
CE:	6+180.230	10017373.562	752691.786

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	45° 45' 20.1387"	Type:	LEFT
Radius:	38.000		
Length:	30.346	Tangent:	16.034
Mid-Ord:	2.989	External:	3.244
Chord:	29.546	Course:	N 34° 52' 06.0991" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	6+180.230	10017373.562	752691.786
SPI:		10017383.492	752693.895
ET:	6+210.230	10017403.312	752690.177

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.166
Radius:	38.000	S Tan:	10.151
Theta:	22° 37' 00.3182"	P:	0.981
X:	29.536	K:	14.922
Y:	3.904	A:	33.764

Chord:	29.793	Course:	N 03° 05' 50.1183" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	6+210.230	10017403.312	752690.177
Fin:	6+219.815	10017412.732	752688.409

Tangent Data

Parameter	Value	Parameter	Value
Length:	9.585	Course:	N 10° 37' 34.2885" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	6+219.815	10017412.732	752688.409
SPI:		10017432.527	752684.695
EE:	6+249.815	10017442.494	752686.498

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.141
Radius:	41.161	S Tan:	10.128
Theta:	20° 52' 47.2626"	P:	0.907
X:	29.604	K:	14.934
Y:	3.610	A:	35.140
Chord:	29.823	Course:	N 03° 40' 26.7943" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	6+249.815	10017442.494	752686.498
SPI:		10017452.460	752688.301
ET:	6+279.815	10017469.700	752698.715

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.141
Radius:	41.161	S Tan:	10.128
Theta:	20° 52' 47.2626"	P:	0.907
X:	29.604	K:	14.934
Y:	3.610	A:	35.140
Chord:	29.823	Course:	N 24° 10' 52.7426" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	6+279.815	10017469.700	752698.715
Fin:	6+291.303	10017479.534	752704.654

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.488	Course:	N 31° 08' 00.2368" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	6+291.303	10017479.534	752704.654
SPI:		10017496.774	752715.068
EE:	6+321.303	10017503.004	752723.054

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.141
Radius:	41.100	S Tan:	10.129
Theta:	20° 54' 39.0544"	P:	0.908
X:	29.603	K:	14.934
Y:	3.615	A:	35.114

Chord:	29.823	Course:	N 38° 05' 44.8683" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	6+321.303	10017503.004	752723.054
SPI:		10017509.233	752731.041
ET:	6+351.303	10017515.137	752750.297

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.141
Radius:	41.100	S Tan:	10.129
Theta:	20° 54' 39.0544"	P:	0.908
X:	29.603	K:	14.934
Y:	3.615	A:	35.114
Chord:	29.823	Course:	N 65° 59' 33.7140" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	6+351.303	10017515.137	752750.297
Fin:	6+353.940	10017515.910	752752.819

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.637	Course:	N 72° 57' 18.3456" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	6+353.940	10017515.910	752752.819
SPI:		10017522.939	752775.745
EE:	6+388.940	10017533.297	752782.297

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	35.000	L Tan:	23.979
Radius:	24.674	S Tan:	12.256
Theta:	40° 38' 14.6314"	P:	2.032
X:	33.280	K:	17.211
Y:	7.982	A:	29.387
Chord:	34.224	Course:	N 59° 28' 03.6989" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	6+388.940	10017533.297	752782.297
SPI:		10017543.654	752788.849
ET:	6+423.940	10017567.381	752785.380

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	35.000	L Tan:	23.979
Radius:	24.674	S Tan:	12.256
Theta:	40° 38' 14.6314"	P:	2.032
X:	33.280	K:	17.211
Y:	7.982	A:	29.387
Chord:	34.224	Course:	N 05° 10' 03.7295" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	6+423.940	10017567.381	752785.380
Fin:	6+437.580	10017580.877	752783.406

Tangent Data

Parameter	Value	Parameter	Value

Length:	13.640	Course:	N 08° 19' 10.9171" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	6+437.580	10017580.877	752783.406
SPI:		10017600.783	752780.495
EC:	6+467.580	10017610.712	752782.385

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.118
Radius:	45.000	S Tan:	10.107
Theta:	19° 05' 54.9354"	P:	0.830
X:	29.668	K:	14.945
Y:	3.307	A:	36.742
Chord:	29.852	Course:	N 01° 57' 34.2211" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	6+467.580	10017610.712	752782.385
RP:		10017602.296	752826.591
CE:	6+486.755	10017628.231	752789.817

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	24° 24' 51.9099"	Type:	RIGHT
Radius:	45.000		
Length:	19.175	Tangent:	9.735
Mid-Ord:	1.017	External:	1.041
Chord:	19.030	Course:	N 22° 59' 09.9732" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	6+486.755	10017628.231	752789.817
SPI:		10017636.491	752795.642
ET:	6+516.755	10017648.233	752811.977

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.118
Radius:	45.000	S Tan:	10.107
Theta:	19° 05' 54.9354"	P:	0.830
X:	29.668	K:	14.945
Y:	3.307	A:	36.742
Chord:	29.852	Course:	N 47° 55' 54.1675" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	6+516.755	10017648.233	752811.977
Fin:	6+678.414	10017742.586	752943.244

Tangent Data

Parameter	Value	Parameter	Value
Length:	161.659	Course:	N 54° 17' 30.8636" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	6+678.414	10017742.586	752943.244
SPI:		10017754.346	752959.606
EC:	6+708.414	10017762.865	752965.097

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value

Length:	30.000	L Tan:	20.149
Radius:	40.000	S Tan:	10.136
Theta:	21° 29' 09.3023"	P:	0.933
X:	29.581	K:	14.930
Y:	3.713	A:	34.641
Chord:	29.813	Course:	N 47° 08' 18.5620" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	6+708.414	10017762.865	752965.097
RP:		10017784.537	752931.477
CE:	6+731.394	10017784.614	752971.477

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	32° 54' 59.3630"	Type:	LEFT
Radius:	40.000		
Length:	22.980	Tangent:	11.817
Mid-Ord:	1.639	External:	1.709
Chord:	22.665	Course:	N 16° 20' 51.8798" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	6+731.394	10017784.614	752971.477
SPI:		10017794.750	752971.457
ET:	6+761.394	10017813.485	752964.041

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.149
Radius:	40.000	S Tan:	10.136
Theta:	21° 29' 09.3023"	P:	0.933
X:	29.581	K:	14.930
Y:	3.713	A:	34.641
Chord:	29.813	Course:	N 14° 26' 34.8025" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	6+761.394	10017813.485	752964.041
Fin:	6+766.189	10017817.944	752962.276

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.795	Course:	N 21° 35' 47.1041" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	6+766.189	10017817.944	752962.276
SPI:		10017836.678	752954.860
EC:	6+796.189	10017846.814	752954.840

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.149
Radius:	40.000	S Tan:	10.136
Theta:	21° 29' 09.3023"	P:	0.933
X:	29.581	K:	14.930
Y:	3.713	A:	34.641
Chord:	29.813	Course:	N 14° 26' 34.8025" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud

EC:	6+796.189	10017846.814	752954.840
RP:		10017846.891	752994.840
CE:	6+804.978	10017855.535	752955.785

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	12° 35' 21.1466"	Type:	RIGHT
Radius:	40.000		
Length:	8.789	Tangent:	4.412
Mid-Ord:	0.241	External:	0.243
Chord:	8.771	Course:	N 06° 11' 02.7715" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	6+804.978	10017855.535	752955.785
SPI:		10017865.431	752957.975
ET:	6+834.978	10017882.143	752969.232

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.149
Radius:	40.000	S Tan:	10.136
Theta:	21° 29' 09.3023"	P:	0.933
X:	29.581	K:	14.930
Y:	3.713	A:	34.641
Chord:	29.813	Course:	N 26° 48' 40.3455" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	6+834.978	10017882.143	752969.232
Fin:	7+000.511	10018019.432	753061.712

Tangent Data

Parameter	Value	Parameter	Value
Length:	165.533	Course:	N 33° 57' 52.6472" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+000.511	10018019.432	753061.712
SPI:		10018036.054	753072.909
EE:	7+030.511	10018045.319	753076.771

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.041
Radius:	75.842	S Tan:	10.037
Theta:	11° 19' 54.8945"	P:	0.494
X:	29.883	K:	14.980
Y:	1.972	A:	47.700
Chord:	29.948	Course:	N 30° 11' 18.8563" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	7+030.511	10018045.319	753076.771
SPI:		10018054.583	753080.634
ET:	7+060.511	10018074.236	753084.561

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.041
Radius:	75.842	S Tan:	10.037
Theta:	11° 19' 54.8945"	P:	0.494
X:	29.883	K:	14.980

Y:	1.972	A:	47.700
Chord:	29.948	Course:	N 15° 04' 36.6490" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+060.511	10018074.236	753084.561
Fin:	7+060.678	10018074.400	753084.594

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.167	Course:	N 11° 18' 02.8581" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+060.678	10018074.400	753084.594
SPI:		10018094.100	753088.531
EE:	7+090.678	10018103.004	753093.257

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.089
Radius:	51.595	S Tan:	10.081
Theta:	16° 39' 26.1295"	P:	0.725
X:	29.747	K:	14.958
Y:	2.890	A:	39.343
Chord:	29.887	Course:	N 16° 50' 57.2363" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	7+090.678	10018103.004	753093.257
SPI:		10018111.909	753097.983
ET:	7+120.678	10018126.209	753112.093

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.089
Radius:	51.595	S Tan:	10.081
Theta:	16° 39' 26.1295"	P:	0.725
X:	29.747	K:	14.958
Y:	2.890	A:	39.343
Chord:	29.887	Course:	N 39° 04' 00.7390" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+120.678	10018126.209	753112.093
Fin:	7+129.878	10018132.758	753118.555

Tangent Data

Parameter	Value	Parameter	Value
Length:	9.200	Course:	N 44° 36' 55.1172" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+129.878	10018132.758	753118.555
SPI:		10018147.004	753132.610
EE:	7+159.878	10018154.849	753138.829

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.012
Radius:	138.376	S Tan:	10.011
Theta:	06° 12' 39.2253"	P:	0.271
X:	29.965	K:	14.994

Y:	1.083	A:	64.430
Chord:	29.984	Course:	N 42° 32' 42.7837" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	7+159.878	10018154.849	753138.829
SPI:		10018162.694	753145.048
ET:	7+189.878	10018179.630	753155.711

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.012
Radius:	138.376	S Tan:	10.011
Theta:	06° 12' 39.2253"	P:	0.271
X:	29.965	K:	14.994
Y:	1.083	A:	64.430
Chord:	29.984	Course:	N 34° 15' 49.0001" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+189.878	10018179.630	753155.711
Fin:	7+200.122	10018188.299	753161.168

Tangent Data

Parameter	Value	Parameter	Value
Length:	10.244	Course:	N 32° 11' 36.6667" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+200.122	10018188.299	753161.168
SPI:		10018205.230	753171.828
EE:	7+230.122	10018213.225	753177.846

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.007
Radius:	179.875	S Tan:	10.007
Theta:	04° 46' 40.6940"	P:	0.208
X:	29.979	K:	14.997
Y:	0.833	A:	73.459
Chord:	29.991	Course:	N 33° 47' 09.8937" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	7+230.122	10018213.225	753177.846
SPI:		10018221.220	753183.864
ET:	7+260.122	10018236.146	753197.187

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.007
Radius:	179.875	S Tan:	10.007
Theta:	04° 46' 40.6940"	P:	0.208
X:	29.979	K:	14.997
Y:	0.833	A:	73.459
Chord:	29.991	Course:	N 40° 09' 24.8276" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+260.122	10018236.146	753197.187
Fin:	7+276.395	10018248.287	753208.022

Tangent Data

Parameter	Value	Parameter	Value
Length:	16.273	Course:	N 41° 44' 58.0546" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+276.395	10018248.287	753208.022
SPI:		10018263.221	753221.352
EC:	7+306.395	10018271.498	753226.993

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.018
Radius:	115.000	S Tan:	10.016
Theta:	07° 28' 24.1052"	P:	0.326
X:	29.949	K:	14.991
Y:	1.303	A:	58.737
Chord:	29.977	Course:	N 39° 15' 31.3118" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	7+306.395	10018271.498	753226.993
RP:		10018336.264	753131.964
CE:	7+385.325	10018346.384	753246.518

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 19' 28.1915"	Type:	LEFT
Radius:	115.000		
Length:	78.929	Tangent:	41.090
Mid-Ord:	6.705	External:	7.121
Chord:	77.389	Course:	N 14° 36' 49.8538" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	7+385.325	10018346.384	753246.518
SPI:		10018356.361	753245.637
ET:	7+415.325	10018375.903	753241.297

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.018
Radius:	115.000	S Tan:	10.016
Theta:	07° 28' 24.1052"	P:	0.326
X:	29.949	K:	14.991
Y:	1.303	A:	58.737
Chord:	29.977	Course:	N 10° 01' 51.6043" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+415.325	10018375.903	753241.297
Fin:	7+418.352	10018378.858	753240.640

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.028	Course:	N 12° 31' 18.3471" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+418.352	10018378.858	753240.640
SPI:		10018398.411	753236.298
EC:	7+448.352	10018408.424	753235.778

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.000	S Tan:	10.027
Theta:	09° 32' 57.4677"	P:	0.416
X:	29.917	K:	14.986
Y:	1.663	A:	51.962
Chord:	29.963	Course:	N 09° 20' 21.8877" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	7+448.352	10018408.424	753235.778
RP:		10018413.091	753325.657
CE:	7+464.691	10018424.728	753236.412

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 24' 05.8256"	Type:	RIGHT
Radius:	90.000		
Length:	16.339	Tangent:	8.192
Mid-Ord:	0.371	External:	0.372
Chord:	16.316	Course:	N 02° 13' 42.0334" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	7+464.691	10018424.728	753236.412
SPI:		10018434.671	753237.709
ET:	7+494.691	10018453.827	753243.557

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.000	S Tan:	10.027
Theta:	09° 32' 57.4677"	P:	0.416
X:	29.917	K:	14.986
Y:	1.663	A:	51.962
Chord:	29.963	Course:	N 13° 47' 45.9545" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+494.691	10018453.827	753243.557
Fin:	7+592.347	10018547.226	753272.074

Tangent Data

Parameter	Value	Parameter	Value
Length:	97.656	Course:	N 16° 58' 42.4139" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	7+592.347	10018547.226	753272.074
RP:		10018605.629	753080.791
PT:	7+632.080	10018586.127	753279.838

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 22' 57.6770"	Type:	LEFT
Radius:	200.000		
Length:	39.733	Tangent:	19.932
Mid-Ord:	0.986	External:	0.991
Chord:	39.668	Course:	N 11° 17' 13.5754" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud

Inicio:	7+632.080	10018586.127	753279.838
Fin:	7+680.924	10018634.738	753284.601

Tangent Data

Parameter	Value	Parameter	Value
Length:	48.843	Course:	N 05° 35' 44.7369" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+680.924	10018634.738	753284.601
SPI:		10018648.035	753285.904
EC:	7+700.924	10018654.433	753287.866

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.361
Radius:	50.000	S Tan:	6.692
Theta:	11° 27' 32.9613"	P:	0.333
X:	19.920	K:	9.987
Y:	1.330	A:	31.623
Chord:	19.964	Course:	N 09° 24' 51.0630" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	7+700.924	10018654.433	753287.866
RP:		10018639.769	753335.668
CE:	7+722.338	10018672.962	753298.275

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	24° 32' 22.8762"	Type:	RIGHT
Radius:	50.000		
Length:	21.415	Tangent:	10.874
Mid-Ord:	1.142	External:	1.169
Chord:	21.252	Course:	N 29° 19' 29.1362" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	7+722.338	10018672.962	753298.275
SPI:		10018677.966	753302.717
ET:	7+742.338	10018685.997	753313.396

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.361
Radius:	50.000	S Tan:	6.692
Theta:	11° 27' 32.9613"	P:	0.333
X:	19.920	K:	9.987
Y:	1.330	A:	31.623
Chord:	19.964	Course:	N 49° 14' 07.2095" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+742.338	10018685.997	753313.396
Fin:	7+747.569	10018689.141	753317.576

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.231	Course:	N 53° 03' 13.5356" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+747.569	10018689.141	753317.576

SPI:		10018697.161	753328.239
EC:	7+767.569	10018700.556	753333.985

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.342
Radius:	90.000	S Tan:	6.675
Theta:	06° 21' 58.3119"	P:	0.185
X:	19.975	K:	9.996
Y:	0.740	A:	42.426
Chord:	19.989	Course:	N 55° 10' 32.1743" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	7+767.569	10018700.556	753333.985
RP:		10018623.074	753379.772
CE:	7+783.570	10018707.433	753348.410

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 11' 11.3661"	Type:	RIGHT
Radius:	90.000		
Length:	16.001	Tangent:	8.022
Mid-Ord:	0.355	External:	0.357
Chord:	15.980	Course:	N 64° 30' 47.5306" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	7+783.570	10018707.433	753348.410
SPI:		10018709.758	753354.666
ET:	7+803.570	10018712.992	753367.610

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.342
Radius:	90.000	S Tan:	6.675
Theta:	06° 21' 58.3119"	P:	0.185
X:	19.975	K:	9.996
Y:	0.740	A:	42.426
Chord:	19.989	Course:	N 73° 51' 02.8869" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+803.570	10018712.992	753367.610
Fin:	7+803.935	10018713.081	753367.964

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.365	Course:	N 75° 58' 21.5268" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+803.935	10018713.081	753367.964
SPI:		10018716.322	753380.939
EC:	7+823.935	10018719.435	753386.875

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.373
Radius:	42.000	S Tan:	6.703
Theta:	13° 38' 30.6681"	P:	0.396
X:	19.887	K:	9.981
Y:	1.581	A:	28.983

Chord:	19.950	Course:	N 71° 25' 39.1703" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	7+823.935	10018719.435	753386.875
RP:		10018756.632	753367.372
CE:	7+855.770	10018743.026	753407.107

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	43° 25' 42.2873"	Type:	LEFT
Radius:	42.000		
Length:	31.835	Tangent:	16.726
Mid-Ord:	2.980	External:	3.208
Chord:	31.078	Course:	N 40° 36' 59.7142" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	7+855.770	10018743.026	753407.107
SPI:		10018749.367	753409.278
ET:	7+875.770	10018762.684	753410.504

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.373
Radius:	42.000	S Tan:	6.703
Theta:	13° 38' 30.6681"	P:	0.396
X:	19.887	K:	9.981
Y:	1.581	A:	28.983
Chord:	19.950	Course:	N 09° 48' 20.2581" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	7+875.770	10018762.684	753410.504
Fin:	7+919.108	10018805.839	753414.478

Tangent Data

Parameter	Value	Parameter	Value
Length:	43.338	Course:	N 05° 15' 37.9024" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	7+919.108	10018805.839	753414.478
SPI:		10018825.792	753416.315
EC:	7+949.108	10018835.436	753419.081

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.037
Radius:	80.000	S Tan:	10.034
Theta:	10° 44' 34.6512"	P:	0.468
X:	29.895	K:	14.982
Y:	1.870	A:	48.990
Chord:	29.953	Course:	N 08° 50' 25.6127" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	7+949.108	10018835.436	753419.081
RP:		10018813.381	753495.980
CE:	7+973.653	10018857.632	753429.334

Circular Curve Data

Parameter	Value	Parameter	Value

Delta:	17° 34' 45.9515"	Type:	RIGHT
Radius:	80.000		
Length:	24.546	Tangent:	12.370
Mid-Ord:	0.940	External:	0.951
Chord:	24.449	Course:	N 24° 47' 35.5294" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	7+973.653	10018857.632	753429.334
SPI:		10018865.991	753434.884
ET:	8+003.653	10018880.325	753448.884

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.037
Radius:	80.000	S Tan:	10.034
Theta:	10° 44' 34.6512"	P:	0.468
X:	29.895	K:	14.982
Y:	1.870	A:	48.990
Chord:	29.953	Course:	N 40° 44' 45.4459" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	8+003.653	10018880.325	753448.884
Fin:	8+088.887	10018941.299	753508.440

Tangent Data

Parameter	Value	Parameter	Value
Length:	85.234	Course:	N 44° 19' 33.1563" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	8+088.887	10018941.299	753508.440
RP:		10018888.894	753562.093
PT:	8+141.768	10018963.576	753555.197

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	40° 23' 53.7494"	Type:	RIGHT
Radius:	75.000		
Length:	52.881	Tangent:	27.593
Mid-Ord:	4.613	External:	4.915
Chord:	51.793	Course:	N 64° 31' 30.0310" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	8+141.768	10018963.576	753555.197
Fin:	8+204.451	10018969.340	753617.614

Tangent Data

Parameter	Value	Parameter	Value
Length:	62.683	Course:	N 84° 43' 26.9057" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	8+204.451	10018969.340	753617.614
RP:		10019098.789	753605.661
PT:	8+293.288	10019005.955	753696.665

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 09' 13.8345"	Type:	LEFT
Radius:	130.000		

Length:	88.837	Tangent:	46.232
Mid-Ord:	7.515	External:	7.976
Chord:	87.119	Course:	N 65° 08' 49.9885" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	8+293.288	10019005.955	753696.665
Fin:	8+362.892	10019054.680	753746.370

Tangent Data

Parameter	Value	Parameter	Value
Length:	69.604	Course:	N 45° 34' 13.0712" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	8+362.892	10019054.680	753746.370
RP:		10019140.373	753662.366
PT:	8+446.931	10019128.987	753781.824

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	40° 07' 32.1959"	Type:	LEFT
Radius:	120.000		
Length:	84.039	Tangent:	43.825
Mid-Ord:	7.282	External:	7.752
Chord:	82.332	Course:	N 25° 30' 26.9733" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	8+446.931	10019128.987	753781.824
Fin:	8+606.051	10019287.390	753796.923

Tangent Data

Parameter	Value	Parameter	Value
Length:	159.121	Course:	N 05° 26' 40.8753" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	8+606.051	10019287.390	753796.923
SPI:		10019307.308	753798.821
EC:	8+636.051	10019317.144	753800.671

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.009
Radius:	165.000	S Tan:	10.008
Theta:	05° 12' 31.3460"	P:	0.227
X:	29.975	K:	14.996
Y:	0.909	A:	70.356
Chord:	29.989	Course:	N 07° 10' 50.8866" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	8+636.051	10019317.144	753800.671
RP:		10019286.640	753962.827
CE:	8+652.882	10019333.497	753804.620

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	05° 50' 39.5726"	Type:	RIGHT
Radius:	165.000		
Length:	16.830	Tangent:	8.423
Mid-Ord:	0.215	External:	0.215

Chord:	16.823	Course:	N 13° 34' 32.0076" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	8+652.882	10019333.497	753804.620
SPI:		10019343.093	753807.462
ET:	8+682.882	10019361.682	753814.862

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.009
Radius:	165.000	S Tan:	10.008
Theta:	05° 12' 31.3460"	P:	0.227
X:	29.975	K:	14.996
Y:	0.909	A:	70.356
Chord:	29.989	Course:	N 19° 58' 13.1287" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	8+682.882	10019361.682	753814.862
Fin:	8+686.435	10019364.983	753816.176

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.553	Course:	N 21° 42' 23.1400" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	8+686.435	10019364.983	753816.176
SPI:		10019383.592	753823.584
EC:	8+716.435	10019393.394	753825.696

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.000	S Tan:	10.027
Theta:	09° 32' 57.4677"	P:	0.416
X:	29.917	K:	14.986
Y:	1.663	A:	51.962
Chord:	29.963	Course:	N 18° 31' 26.6806" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	8+716.435	10019393.394	753825.696
RP:		10019412.347	753737.714
CE:	8+744.836	10019421.636	753827.233

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 04' 50.7455"	Type:	LEFT
Radius:	90.000		
Length:	28.401	Tangent:	14.320
Mid-Ord:	1.118	External:	1.132
Chord:	28.283	Course:	N 03° 07' 00.2995" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	8+744.836	10019421.636	753827.233
SPI:		10019431.609	753826.199
ET:	8+774.836	10019450.912	753820.855

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value

Length:	30.000	L Tan:	20.029
Radius:	90.000	S Tan:	10.027
Theta:	09° 32' 57.4677"	P:	0.416
X:	29.917	K:	14.986
Y:	1.663	A:	51.962
Chord:	29.963	Course:	N 12° 17' 26.0816" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	8+774.836	10019450.912	753820.855
Fin:	8+840.553	10019514.247	753803.323

Tangent Data

Parameter	Value	Parameter	Value
Length:	65.717	Course:	N 15° 28' 22.5410" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	8+840.553	10019514.247	753803.323
SPI:		10019533.582	753797.971
EE:	8+870.553	10019543.634	753797.688

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.062
Radius:	61.999	S Tan:	10.056
Theta:	13° 51' 43.1879"	P:	0.604
X:	29.825	K:	14.971
Y:	2.409	A:	43.128
Chord:	29.922	Course:	N 10° 51' 16.3994" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	8+870.553	10019543.634	753797.688
SPI:		10019553.686	753797.405
ET:	8+900.553	10019573.291	753801.662

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.062
Radius:	61.999	S Tan:	10.056
Theta:	13° 51' 43.1879"	P:	0.604
X:	29.825	K:	14.971
Y:	2.409	A:	43.128
Chord:	29.922	Course:	N 07° 37' 57.6933" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	8+900.553	10019573.291	753801.662
Fin:	8+908.958	10019581.504	753803.446

Tangent Data

Parameter	Value	Parameter	Value
Length:	8.405	Course:	N 12° 15' 03.8348" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	8+908.958	10019581.504	753803.446
SPI:		10019601.237	753807.731
EE:	8+938.958	10019611.186	753805.594

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value

Length:	30.000	L Tan:	20.193
Radius:	35.259	S Tan:	10.176
Theta:	24° 22' 30.3870"	P:	1.057
X:	29.462	K:	14.910
Y:	4.200	A:	32.523
Chord:	29.759	Course:	N 04° 08' 18.7194" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	8+938.958	10019611.186	753805.594
SPI:		10019621.135	753803.456
ET:	8+968.958	10019637.367	753791.445

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.193
Radius:	35.259	S Tan:	10.176
Theta:	24° 22' 30.3870"	P:	1.057
X:	29.462	K:	14.910
Y:	4.200	A:	32.523
Chord:	29.759	Course:	N 28° 23' 11.8236" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	8+968.958	10019637.367	753791.445
Fin:	8+976.498	10019643.428	753786.960

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.540	Course:	N 36° 29' 56.9391" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	8+976.498	10019643.428	753786.960
SPI:		10019659.535	753775.042
EC:	9+006.498	10019668.572	753770.682

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.037
Radius:	80.000	S Tan:	10.034
Theta:	10° 44' 34.6512"	P:	0.468
X:	29.895	K:	14.982
Y:	1.870	A:	48.990
Chord:	29.953	Course:	N 32° 55' 09.2288" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	9+006.498	10019668.572	753770.682
RP:		10019703.336	753842.734
CE:	9+059.047	10019719.804	753764.448

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	37° 38' 07.8690"	Type:	RIGHT
Radius:	80.000		
Length:	52.549	Tangent:	27.262
Mid-Ord:	4.276	External:	4.518
Chord:	51.609	Course:	N 06° 56' 18.3534" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud

CE:	9+059.047	10019719.804	753764.448
SPI:		10019729.622	753766.513
ET:	9+089.047	10019748.118	753774.220

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.037
Radius:	80.000	S Tan:	10.034
Theta:	10° 44' 34.6512"	P:	0.468
X:	29.895	K:	14.982
Y:	1.870	A:	48.990
Chord:	29.953	Course:	N 19° 02' 32.5219" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+089.047	10019748.118	753774.220
Fin:	9+095.721	10019754.278	753776.788

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.674	Course:	N 22° 37' 20.2322" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	9+095.721	10019754.278	753776.788
SPI:		10019772.800	753784.506
EC:	9+125.721	10019782.755	753785.958

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.066
Radius:	60.000	S Tan:	10.060
Theta:	14° 19' 26.2016"	P:	0.624
X:	29.813	K:	14.969
Y:	2.489	A:	42.426
Chord:	29.917	Course:	N 17° 51' 00.6067" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	9+125.721	10019782.755	753785.958
RP:		10019791.415	753726.586
CE:	9+150.125	10019806.949	753784.540

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	23° 18' 13.9044"	Type:	LEFT
Radius:	60.000		
Length:	24.404	Tangent:	12.373
Mid-Ord:	1.236	External:	1.262
Chord:	24.236	Course:	N 03° 21' 12.9215" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	9+150.125	10019806.949	753784.540
SPI:		10019816.666	753781.936
ET:	9+180.125	10019834.160	753772.107

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.066
Radius:	60.000	S Tan:	10.060
Theta:	14° 19' 26.2016"	P:	0.624
X:	29.813	K:	14.969

Y:	2.489	A:	42.426
Chord:	29.917	Course:	N 24° 33' 26.4498" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+180.125	10019834.160	753772.107
Fin:	9+190.653	10019843.338	753766.950

Tangent Data

Parameter	Value	Parameter	Value
Length:	10.527	Course:	N 29° 19' 46.0753" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	9+190.653	10019843.338	753766.950
SPI:		10019860.832	753757.121
EC:	9+220.653	10019870.549	753754.516

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.066
Radius:	60.000	S Tan:	10.060
Theta:	14° 19' 26.2015"	P:	0.624
X:	29.813	K:	14.969
Y:	2.489	A:	42.426
Chord:	29.917	Course:	N 24° 33' 26.4498" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	9+220.653	10019870.549	753754.516
RP:		10019886.084	753812.471
CE:	9+240.738	10019890.451	753752.630

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	19° 10' 48.0295"	Type:	RIGHT
Radius:	60.000		
Length:	20.085	Tangent:	10.137
Mid-Ord:	0.838	External:	0.850
Chord:	19.992	Course:	N 05° 24' 55.8590" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	9+240.738	10019890.451	753752.630
SPI:		10019900.484	753753.362
ET:	9+270.738	10019919.514	753759.728

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.066
Radius:	60.000	S Tan:	10.060
Theta:	14° 19' 26.2015"	P:	0.624
X:	29.813	K:	14.969
Y:	2.489	A:	42.426
Chord:	29.917	Course:	N 13° 43' 34.7318" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+270.738	10019919.514	753759.728
Fin:	9+310.341	10019957.070	753772.294

Tangent Data

Parameter	Value	Parameter	Value

Length:	39.603	Course:	N 18° 29' 54.3573" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	9+310.341	10019957.070	753772.294
SPI:		10019978.476	753779.455
EE:	9+343.341	10019989.237	753775.339

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	33.000	L Tan:	22.572
Radius:	23.976	S Tan:	11.522
Theta:	39° 25' 50.8780"	P:	1.861
X:	31.471	K:	16.243
Y:	7.318	A:	28.128
Chord:	32.311	Course:	N 05° 24' 29.3142" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	9+343.341	10019989.237	753775.339
SPI:		10019999.998	753771.223
ET:	9+376.341	10020011.160	753751.604

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	33.000	L Tan:	22.572
Radius:	23.976	S Tan:	11.522
Theta:	39° 25' 50.8780"	P:	1.861
X:	31.471	K:	16.243
Y:	7.318	A:	28.128
Chord:	32.311	Course:	N 47° 16' 22.3556" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+376.341	10020011.160	753751.604
Fin:	9+377.608	10020011.787	753750.502

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.268	Course:	N 60° 21' 47.3986" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	9+377.608	10020011.787	753750.502
SPI:		10020021.680	753733.112
EC:	9+407.608	10020027.335	753724.856

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.007
Radius:	180.000	S Tan:	10.007
Theta:	04° 46' 28.7340"	P:	0.208
X:	29.979	K:	14.997
Y:	0.833	A:	73.485
Chord:	29.991	Course:	N 58° 46' 18.1575" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	9+407.608	10020027.335	753724.856
RP:		10020175.835	753826.580
CE:	9+420.526	10020035.012	753714.470

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 06' 42.7823"	Type:	RIGHT
Radius:	180.000		
Length:	12.918	Tangent:	6.462
Mid-Ord:	0.116	External:	0.116
Chord:	12.915	Course:	N 53° 31' 57.2735" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	9+420.526	10020035.012	753714.470
SPI:		10020041.244	753706.641
ET:	9+450.526	10020054.965	753692.080

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.007
Radius:	180.000	S Tan:	10.007
Theta:	04° 46' 28.7340"	P:	0.208
X:	29.979	K:	14.997
Y:	0.833	A:	73.485
Chord:	29.991	Course:	N 48° 17' 36.3894" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+450.526	10020054.965	753692.080
Fin:	9+458.667	10020060.548	753686.156

Tangent Data

Parameter	Value	Parameter	Value
Length:	8.140	Course:	N 46° 42' 07.1483" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	9+458.667	10020060.548	753686.156
SPI:		10020074.423	753671.431
EE:	9+488.667	10020077.339	753661.644

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.232
Radius:	32.186	S Tan:	10.212
Theta:	26° 42' 07.5141"	P:	1.156
X:	29.355	K:	14.892
Y:	4.589	A:	31.074
Chord:	29.711	Course:	N 55° 35' 10.4258" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	9+488.667	10020077.339	753661.644
SPI:		10020080.256	753651.858
ET:	9+518.667	10020076.706	753631.940

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.232
Radius:	32.186	S Tan:	10.212
Theta:	26° 42' 07.5141"	P:	1.156
X:	29.355	K:	14.892
Y:	4.589	A:	31.074
Chord:	29.711	Course:	S 88° 46' 41.1009" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+518.667	10020076.706	753631.940
Fin:	9+530.608	10020074.610	753620.184

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.941	Course:	S 79° 53' 37.8234" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	9+530.608	10020074.610	753620.184
SPI:		10020071.070	753600.322
EE:	9+560.608	10020073.371	753590.427

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.174
Radius:	37.056	S Tan:	10.159
Theta:	23° 11' 33.6659"	P:	1.006
X:	29.512	K:	14.918
Y:	4.001	A:	33.342
Chord:	29.782	Course:	S 87° 36' 50.2861" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	9+560.608	10020073.371	753590.427
SPI:		10020075.671	753580.532
ET:	9+590.608	10020087.608	753564.269

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.174
Radius:	37.056	S Tan:	10.159
Theta:	23° 11' 33.6659"	P:	1.006
X:	29.512	K:	14.918
Y:	4.001	A:	33.342
Chord:	29.782	Course:	N 61° 26' 27.3076" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+590.608	10020087.608	753564.269
Fin:	9+676.242	10020138.280	753495.236

Tangent Data

Parameter	Value	Parameter	Value
Length:	85.634	Course:	N 53° 43' 14.8449" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+676.242	10020138.280	753495.236
Fin:	9+699.993	10020153.090	753476.669

Tangent Data

Parameter	Value	Parameter	Value
Length:	23.751	Course:	N 51° 25' 15.9003" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	9+699.993	10020153.090	753476.669
RP:		10020215.630	753526.556
PT:	9+742.625	10020187.107	753451.814

Circular Curve Data

Parameter	Value	Parameter	Value

Delta:	30° 31' 58.5894"	Type:	RIGHT
Radius:	80.000		
Length:	42.632	Tangent:	21.835
Mid-Ord:	2.823	External:	2.926
Chord:	42.129	Course:	N 36° 09' 16.6056" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+742.625	10020187.107	753451.814
Fin:	9+793.950	10020235.059	753433.514

Tangent Data

Parameter	Value	Parameter	Value
Length:	51.326	Course:	N 20° 53' 17.3109" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	9+793.950	10020235.059	753433.514
RP:		10020263.583	753508.256
PT:	9+805.694	10020246.298	753430.146

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 24' 38.3413"	Type:	RIGHT
Radius:	80.000		
Length:	11.743	Tangent:	5.882
Mid-Ord:	0.215	External:	0.216
Chord:	11.733	Course:	N 16° 40' 58.1403" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+805.694	10020246.298	753430.146
Fin:	9+827.827	10020267.909	753425.364

Tangent Data

Parameter	Value	Parameter	Value
Length:	22.133	Course:	N 12° 28' 38.9696" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	9+827.827	10020267.909	753425.364
RP:		10020250.625	753347.253
PT:	9+840.202	10020279.737	753421.768

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 51' 45.0025"	Type:	LEFT
Radius:	80.000		
Length:	12.374	Tangent:	6.200
Mid-Ord:	0.239	External:	0.240
Chord:	12.362	Course:	N 16° 54' 31.4709" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+840.202	10020279.737	753421.768
Fin:	9+957.016	10020388.542	753379.259

Tangent Data

Parameter	Value	Parameter	Value
Length:	116.814	Course:	N 21° 20' 23.9721" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud

PC:	9+957.016	10020388.542	753379.259
RP:		10020432.210	753491.032
PT:	9+966.500	10020397.503	753376.160

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 31' 42.1867"	Type:	RIGHT
Radius:	120.000		
Length:	9.484	Tangent:	4.745
Mid-Ord:	0.094	External:	0.094
Chord:	9.482	Course:	N 19° 04' 32.8788" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+966.500	10020397.503	753376.160
Fin:	9+984.324	10020414.565	753371.005

Tangent Data

Parameter	Value	Parameter	Value
Length:	17.824	Course:	N 16° 48' 41.7854" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	9+984.324	10020414.565	753371.005
RP:		10020443.488	753466.731
PT:	9+999.535	10020429.403	753367.728

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 42' 53.7577"	Type:	RIGHT
Radius:	100.000		
Length:	15.210	Tangent:	7.620
Mid-Ord:	0.289	External:	0.290
Chord:	15.196	Course:	N 12° 27' 14.9066" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	9+999.535	10020429.403	753367.728
Fin:	10+005.546	10020435.354	753366.882

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.011	Course:	N 08° 05' 48.0278" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	10+005.546	10020435.354	753366.882
RP:		10020444.509	753431.234
PT:	10+027.568	10020457.263	753367.497

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	19° 24' 42.9473"	Type:	RIGHT
Radius:	65.000		
Length:	22.022	Tangent:	11.118
Mid-Ord:	0.930	External:	0.944
Chord:	21.917	Course:	N 01° 36' 33.4459" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+027.568	10020457.263	753367.497
Fin:	10+036.900	10020466.414	753369.328

Tangent Data

Parameter	Value	Parameter	Value
Length:	9.333	Course:	N 11° 18' 54.9196" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	10+036.900	10020466.414	753369.328
RP:		10020458.566	753408.551
PT:	10+059.434	10020486.147	753379.580

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	32° 16' 38.1024"	Type:	RIGHT
Radius:	40.000		
Length:	22.534	Tangent:	11.575
Mid-Ord:	1.576	External:	1.641
Chord:	22.237	Course:	N 27° 27' 13.9707" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+059.434	10020486.147	753379.580
Fin:	10+072.566	10020495.657	753388.635

Tangent Data

Parameter	Value	Parameter	Value
Length:	13.132	Course:	N 43° 35' 33.0219" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	10+072.566	10020495.657	753388.635
RP:		10020509.448	753374.149
PT:	10+079.605	10020501.497	753392.501

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	20° 10' 04.0355"	Type:	LEFT
Radius:	20.000		
Length:	7.040	Tangent:	3.557
Mid-Ord:	0.309	External:	0.314
Chord:	7.004	Course:	N 33° 30' 31.0042" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+079.605	10020501.497	753392.501
Fin:	10+090.635	10020511.617	753396.886

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.029	Course:	N 23° 25' 28.9864" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	10+090.635	10020511.617	753396.886
RP:		10020519.568	753378.534
PT:	10+102.320	10020523.059	753398.227

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	33° 28' 36.6480"	Type:	LEFT
Radius:	20.000		
Length:	11.686	Tangent:	6.015
Mid-Ord:	0.847	External:	0.885
Chord:	11.520	Course:	N 06° 41' 10.6624" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+102.320	10020523.059	753398.227
Fin:	10+154.244	10020574.185	753389.164

Tangent Data

Parameter	Value	Parameter	Value
Length:	51.924	Course:	N 10° 03' 07.6616" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	10+154.244	10020574.185	753389.164
RP:		10020589.894	753477.782
PT:	10+193.979	10020613.558	753390.949

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	25° 17' 46.9689"	Type:	RIGHT
Radius:	90.000		
Length:	39.735	Tangent:	20.197
Mid-Ord:	2.184	External:	2.238
Chord:	39.414	Course:	N 02° 35' 45.8228" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+193.979	10020613.558	753390.949
Fin:	10+257.227	10020674.581	753407.579

Tangent Data

Parameter	Value	Parameter	Value
Length:	63.248	Course:	N 15° 14' 39.3073" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	10+257.227	10020674.581	753407.579
RP:		10020714.021	753262.857
PT:	10+282.125	10020699.035	753412.107

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 30' 37.3532"	Type:	LEFT
Radius:	150.000		
Length:	24.898	Tangent:	12.478
Mid-Ord:	0.516	External:	0.518
Chord:	24.870	Course:	N 10° 29' 20.6307" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+282.125	10020699.035	753412.107
Fin:	10+370.913	10020787.378	753420.977

Tangent Data

Parameter	Value	Parameter	Value
Length:	88.788	Course:	N 05° 44' 01.9541" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+370.913	10020787.378	753420.977
SPI:		10020803.987	753422.645
EE:	10+395.913	10020812.323	753422.046

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.693

Radius:	72.765	S Tan:	8.357
Theta:	09° 50' 33.3487"	P:	0.358
X:	24.926	K:	12.488
Y:	1.429	A:	42.651
Chord:	24.967	Course:	N 02° 27' 13.7907" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	10+395.913	10020812.323	753422.046
SPI:		10020820.658	753421.448
ET:	10+420.913	10020836.858	753417.423

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.693
Radius:	72.765	S Tan:	8.357
Theta:	09° 50' 33.3487"	P:	0.358
X:	24.926	K:	12.488
Y:	1.429	A:	42.651
Chord:	24.967	Course:	N 10° 40' 16.5799" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+420.913	10020836.858	753417.423
Fin:	10+422.864	10020838.751	753416.953

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.951	Course:	N 13° 57' 04.7433" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+422.864	10020838.751	753416.953
SPI:		10020858.322	753412.091
EE:	10+452.864	10020868.357	753413.617

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.165
Radius:	38.033	S Tan:	10.151
Theta:	22° 35' 49.3748"	P:	0.981
X:	29.537	K:	14.923
Y:	3.900	A:	33.779
Chord:	29.793	Course:	N 06° 25' 44.1269" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	10+452.864	10020868.357	753413.617
SPI:		10020878.392	753415.143
ET:	10+482.864	10020895.633	753425.602

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.165
Radius:	38.033	S Tan:	10.151
Theta:	22° 35' 49.3748"	P:	0.981
X:	29.537	K:	14.923
Y:	3.900	A:	33.779
Chord:	29.793	Course:	N 23° 43' 13.3897" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud

Inicio:	10+482.864	10020895.633	753425.602
Fin:	10+508.748	10020917.764	753439.027

Tangent Data

Parameter	Value	Parameter	Value
Length:	25.884	Course:	N 31° 14' 34.0062" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+508.748	10020917.764	753439.027
SPI:		10020932.021	753447.676
EE:	10+533.748	10020938.664	753452.723

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.676
Radius:	119.748	S Tan:	8.342
Theta:	05° 58' 51.1986"	P:	0.217
X:	24.973	K:	12.495
Y:	0.869	A:	54.715
Chord:	24.988	Course:	N 33° 14' 10.4102" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	10+533.748	10020938.664	753452.723
SPI:		10020945.307	753457.769
ET:	10+558.748	10020957.462	753469.186

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.676
Radius:	119.748	S Tan:	8.342
Theta:	05° 58' 51.1986"	P:	0.217
X:	24.973	K:	12.495
Y:	0.869	A:	54.715
Chord:	24.988	Course:	N 41° 12' 39.9994" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+558.748	10020957.462	753469.186
Fin:	10+559.444	10020957.969	753469.662

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.696	Course:	N 43° 12' 16.4035" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+559.444	10020957.969	753469.662
SPI:		10020971.768	753482.622
EE:	10+587.444	10020981.064	753484.911

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.930
Radius:	27.311	S Tan:	9.573
Theta:	29° 22' 15.6575"	P:	1.185
X:	27.273	K:	13.878
Y:	4.695	A:	27.653
Chord:	27.674	Course:	N 33° 26' 10.0931" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud

EE:	10+587.444	10020981.064	753484.911
SPI:		10020990.359	753487.200
ET:	10+615.444	10021008.598	753482.129

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.930
Radius:	27.311	S Tan:	9.573
Theta:	29° 22' 15.6575"	P:	1.185
X:	27.273	K:	13.878
Y:	4.695	A:	27.653
Chord:	27.674	Course:	N 05° 46' 08.6011" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+615.444	10021008.598	753482.129
Fin:	10+622.576	10021015.469	753480.219

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.132	Course:	N 15° 32' 14.9115" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+622.576	10021015.469	753480.219
SPI:		10021034.750	753474.858
EC:	10+652.576	10021044.626	753473.223

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.012
Radius:	140.000	S Tan:	10.011
Theta:	06° 08' 19.8007"	P:	0.268
X:	29.966	K:	14.994
Y:	1.071	A:	64.807
Chord:	29.985	Course:	N 13° 29' 29.0274" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	10+652.576	10021044.626	753473.223
RP:		10021067.489	753611.344
CE:	10+680.783	10021072.729	753471.442

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 32' 37.8841"	Type:	RIGHT
Radius:	140.000		
Length:	28.207	Tangent:	14.151
Mid-Ord:	0.710	External:	0.713
Chord:	28.159	Course:	N 03° 37' 36.1688" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	10+680.783	10021072.729	753471.442
SPI:		10021082.733	753471.817
ET:	10+710.783	10021102.536	753474.700

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.012
Radius:	140.000	S Tan:	10.011
Theta:	06° 08' 19.8007"	P:	0.268
X:	29.966	K:	14.994

Y:	1.071	A:	64.807
Chord:	29.985	Course:	N 06° 14' 16.6898" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+710.783	10021102.536	753474.700
Fin:	10+751.424	10021142.754	753480.556

Tangent Data

Parameter	Value	Parameter	Value
Length:	40.641	Course:	N 08° 17' 02.5739" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+751.424	10021142.754	753480.556
SPI:		10021162.576	753483.442
EE:	10+781.424	10021172.106	753486.564

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.031
Radius:	87.217	S Tan:	10.028
Theta:	09° 51' 14.4930"	P:	0.430
X:	29.911	K:	14.985
Y:	1.716	A:	51.152
Chord:	29.961	Course:	N 11° 34' 04.4418" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	10+781.424	10021172.106	753486.564
SPI:		10021181.636	753489.686
ET:	10+811.424	10021199.323	753499.087

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.031
Radius:	87.217	S Tan:	10.028
Theta:	09° 51' 14.4930"	P:	0.430
X:	29.911	K:	14.985
Y:	1.716	A:	51.152
Chord:	29.961	Course:	N 24° 42' 29.6920" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+811.424	10021199.323	753499.087
Fin:	10+811.438	10021199.335	753499.094

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.013	Course:	N 27° 59' 31.5576" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+811.438	10021199.335	753499.094
SPI:		10021217.271	753508.627
EE:	10+841.438	10021227.543	753508.116

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.312
Radius:	27.864	S Tan:	10.284
Theta:	30° 50' 38.6131"	P:	1.332
X:	29.142	K:	14.856

Y:	5.273	A:	28.912
Chord:	29.615	Course:	N 17° 44' 10.1388" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	10+841.438	10021227.543	753508.116
SPI:		10021237.815	753507.604
ET:	10+871.438	10021254.714	753496.335

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.312
Radius:	27.864	S Tan:	10.284
Theta:	30° 50' 38.6131"	P:	1.332
X:	29.142	K:	14.856
Y:	5.273	A:	28.912
Chord:	29.615	Course:	N 23° 26' 24.2391" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+871.438	10021254.714	753496.335
Fin:	10+873.278	10021256.246	753495.314

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.840	Course:	N 33° 41' 45.6633" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+873.278	10021256.246	753495.314
SPI:		10021270.128	753486.057
EE:	10+898.278	10021277.686	753482.504

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.686
Radius:	84.083	S Tan:	8.351
Theta:	08° 31' 03.6878"	P:	0.309
X:	24.945	K:	12.491
Y:	1.237	A:	45.849
Chord:	24.975	Course:	N 30° 51' 26.3473" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	10+898.278	10021277.686	753482.504
SPI:		10021285.243	753478.951
ET:	10+923.278	10021301.229	753474.167

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.686
Radius:	84.083	S Tan:	8.351
Theta:	08° 31' 03.6878"	P:	0.309
X:	24.945	K:	12.491
Y:	1.237	A:	45.849
Chord:	24.975	Course:	N 19° 29' 57.6035" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+923.278	10021301.229	753474.167
Fin:	10+925.781	10021303.627	753473.449

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.503	Course:	N 16° 39' 38.2876" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+925.781	10021303.627	753473.449
SPI:		10021319.614	753468.665
EC:	10+950.781	10021327.146	753465.054

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.688
Radius:	80.000	S Tan:	8.353
Theta:	08° 57' 08.8760"	P:	0.325
X:	24.939	K:	12.490
Y:	1.300	A:	44.721
Chord:	24.973	Course:	N 19° 38' 39.0246" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	10+950.781	10021327.146	753465.054
RP:		10021292.563	753392.915
CE:	10+965.534	10021339.787	753457.490

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 33' 56.2066"	Type:	LEFT
Radius:	80.000		
Length:	14.752	Tangent:	7.397
Mid-Ord:	0.340	External:	0.341
Chord:	14.731	Course:	N 30° 53' 45.2668" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	10+965.534	10021339.787	753457.490
SPI:		10021346.529	753452.559
ET:	10+990.534	10021358.303	753440.732

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.688
Radius:	80.000	S Tan:	8.353
Theta:	08° 57' 08.8760"	P:	0.325
X:	24.939	K:	12.490
Y:	1.300	A:	44.721
Chord:	24.973	Course:	N 42° 08' 51.5091" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	10+990.534	10021358.303	753440.732
Fin:	10+991.829	10021359.216	753439.814

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.295	Course:	N 45° 07' 52.2463" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	10+991.829	10021359.216	753439.814
SPI:		10021372.431	753426.539
EC:	11+019.829	10021380.518	753421.766

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.730
Radius:	55.000	S Tan:	9.391
Theta:	14° 35' 03.7689"	P:	0.593
X:	27.819	K:	13.970
Y:	2.365	A:	39.243
Chord:	27.919	Course:	N 40° 16' 20.6048" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	11+019.829	10021380.518	753421.766
RP:		10021408.472	753469.133
CE:	11+048.472	10021407.792	753414.137

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	29° 50' 19.1210"	Type:	RIGHT
Radius:	55.000		
Length:	28.643	Tangent:	14.654
Mid-Ord:	1.854	External:	1.919
Chord:	28.320	Course:	N 15° 37' 38.9169" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	11+048.472	10021407.792	753414.137
SPI:		10021417.183	753414.021
ET:	11+076.472	10021435.366	753418.513

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.730
Radius:	55.000	S Tan:	9.391
Theta:	14° 35' 03.7689"	P:	0.593
X:	27.819	K:	13.970
Y:	2.365	A:	39.243
Chord:	27.919	Course:	N 09° 01' 02.7710" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+076.472	10021435.366	753418.513
Fin:	11+102.500	10021460.634	753424.755

Tangent Data

Parameter	Value	Parameter	Value
Length:	26.028	Course:	N 13° 52' 34.4124" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+102.500	10021460.634	753424.755
SPI:		10021480.351	753429.626
EE:	11+132.500	10021490.193	753426.650

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.309
Radius:	27.996	S Tan:	10.282
Theta:	30° 41' 56.5927"	P:	1.326
X:	29.150	K:	14.858
Y:	5.249	A:	28.980
Chord:	29.619	Course:	N 03° 40' 05.7054" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	11+132.500	10021490.193	753426.650
SPI:		10021500.034	753423.674
ET:	11+162.500	10021513.749	753408.696

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.309
Radius:	27.996	S Tan:	10.282
Theta:	30° 41' 56.5927"	P:	1.326
X:	29.150	K:	14.858
Y:	5.249	A:	28.980
Chord:	29.619	Course:	N 37° 18' 50.0660" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+162.500	10021513.749	753408.696
Fin:	11+167.732	10021517.283	753404.837

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.232	Course:	N 47° 31' 18.7730" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+167.732	10021517.283	753404.837
SPI:		10021529.975	753390.975
EE:	11+195.732	10021538.402	753386.698

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.795
Radius:	38.911	S Tan:	9.450
Theta:	20° 36' 53.5810"	P:	0.836
X:	27.640	K:	13.940
Y:	3.327	A:	33.008
Chord:	27.839	Course:	N 40° 39' 28.1084" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	11+195.732	10021538.402	753386.698
SPI:		10021546.829	753382.422
ET:	11+223.732	10021565.511	753380.362

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.795
Radius:	38.911	S Tan:	9.450
Theta:	20° 36' 53.5810"	P:	0.836
X:	27.640	K:	13.940
Y:	3.327	A:	33.008
Chord:	27.839	Course:	N 13° 09' 22.2754" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+223.732	10021565.511	753380.362
Fin:	11+231.168	10021572.902	753379.547

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.436	Course:	N 06° 17' 31.6109" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+231.168	10021572.902	753379.547
SPI:		10021592.805	753377.352
EC:	11+261.168	10021602.490	753374.778

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.024
Radius:	100.000	S Tan:	10.021
Theta:	08° 35' 39.7209"	P:	0.375
X:	29.933	K:	14.989
Y:	1.498	A:	54.772
Chord:	29.970	Course:	N 09° 09' 22.8857" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	11+261.168	10021602.490	753374.778
RP:		10021576.799	753278.134
CE:	11+286.591	10021625.970	753365.210

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 33' 58.4954"	Type:	LEFT
Radius:	100.000		
Length:	25.423	Tangent:	12.780
Mid-Ord:	0.807	External:	0.813
Chord:	25.354	Course:	N 22° 10' 10.5795" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	11+286.591	10021625.970	753365.210
SPI:		10021634.696	753360.283
ET:	11+316.591	10021650.465	753347.942

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.024
Radius:	100.000	S Tan:	10.021
Theta:	08° 35' 39.7209"	P:	0.375
X:	29.933	K:	14.989
Y:	1.498	A:	54.772
Chord:	29.970	Course:	N 35° 10' 58.2733" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+316.591	10021650.465	753347.942
Fin:	11+317.482	10021651.167	753347.393

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.891	Course:	N 38° 02' 49.5481" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+317.482	10021651.167	753347.393
SPI:		10021665.363	753336.283
EC:	11+344.482	10021673.303	753331.993

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	27.000	L Tan:	18.027
Radius:	80.000	S Tan:	9.024
Theta:	09° 40' 07.1861"	P:	0.379

X:	26.923	K:	13.487
Y:	1.516	A:	46.476
Chord:	26.966	Course:	N 34° 49' 29.9517" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	11+344.482	10021673.303	753331.993
RP:		10021711.327	753402.379
CE:	11+359.863	10021687.453	753326.025

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 00' 57.6914"	Type:	RIGHT
Radius:	80.000		
Length:	15.381	Tangent:	7.714
Mid-Ord:	0.369	External:	0.371
Chord:	15.358	Course:	N 22° 52' 13.5164" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	11+359.863	10021687.453	753326.025
SPI:		10021696.067	753323.331
ET:	11+386.863	10021713.931	753320.918

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	27.000	L Tan:	18.027
Radius:	80.000	S Tan:	9.024
Theta:	09° 40' 07.1861"	P:	0.379
X:	26.923	K:	13.487
Y:	1.516	A:	46.476
Chord:	26.966	Course:	N 10° 54' 57.0810" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+386.863	10021713.931	753320.918
Fin:	11+399.161	10021726.118	753319.272

Tangent Data

Parameter	Value	Parameter	Value
Length:	12.298	Course:	N 07° 41' 37.4846" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	11+399.161	10021726.118	753319.272
RP:		10021715.408	753239.992
PT:	11+410.891	10021737.586	753316.856

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 24' 02.8256"	Type:	LEFT
Radius:	80.000		
Length:	11.730	Tangent:	5.875
Mid-Ord:	0.215	External:	0.215
Chord:	11.719	Course:	N 11° 53' 38.8974" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+410.891	10021737.586	753316.856
Fin:	11+494.605	10021818.019	753293.649

Tangent Data

Parameter	Value	Parameter	Value

Length:	83.714	Course:	N 16° 05' 40.3102" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	11+494.605	10021818.019	753293.649
RP:		10021851.286	753408.946
PT:	11+513.789	10021836.797	753289.823

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 09' 35.4125"	Type:	RIGHT
Radius:	120.000		
Length:	19.184	Tangent:	9.613
Mid-Ord:	0.383	External:	0.384
Chord:	19.164	Course:	N 11° 30' 52.6040" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+513.789	10021836.797	753289.823
Fin:	11+539.362	10021862.183	753286.736

Tangent Data

Parameter	Value	Parameter	Value
Length:	25.573	Course:	N 06° 56' 04.8978" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	11+539.362	10021862.183	753286.736
RP:		10021868.220	753336.370
PT:	11+551.675	10021874.465	753286.762

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 06' 35.8296"	Type:	RIGHT
Radius:	50.000		
Length:	12.313	Tangent:	6.188
Mid-Ord:	0.379	External:	0.381
Chord:	12.282	Course:	N 00° 07' 13.0170" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+551.675	10021874.465	753286.762
Fin:	11+560.884	10021883.602	753287.912

Tangent Data

Parameter	Value	Parameter	Value
Length:	9.209	Course:	N 07° 10' 30.9318" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	11+560.884	10021883.602	753287.912
RP:		10021888.598	753248.225
PT:	11+576.042	10021898.638	753286.945

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	21° 42' 40.6583"	Type:	LEFT
Radius:	40.000		
Length:	15.157	Tangent:	7.671
Mid-Ord:	0.716	External:	0.729
Chord:	15.067	Course:	N 03° 40' 49.3973" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+576.042	10021898.638	753286.945
Fin:	11+609.019	10021930.559	753278.668

Tangent Data

Parameter	Value	Parameter	Value
Length:	32.977	Course:	N 14° 32' 09.7265" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	11+609.019	10021930.559	753278.668
RP:		10021918.010	753230.268
PT:	11+625.108	10021945.222	753272.215

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 26' 10.7330"	Type:	LEFT
Radius:	50.000		
Length:	16.089	Tangent:	8.114
Mid-Ord:	0.646	External:	0.654
Chord:	16.019	Course:	N 23° 45' 15.0929" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+625.108	10021945.222	753272.215
Fin:	11+640.521	10021958.153	753263.826

Tangent Data

Parameter	Value	Parameter	Value
Length:	15.414	Course:	N 32° 58' 20.4594" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+640.521	10021958.153	753263.826
SPI:		10021978.230	753250.801
EE:	11+675.521	10021990.371	753252.127

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	35.000	L Tan:	23.932
Radius:	25.575	S Tan:	12.213
Theta:	39° 12' 16.5395"	P:	1.963
X:	33.397	K:	17.230
Y:	7.720	A:	29.919
Chord:	34.277	Course:	N 19° 57' 23.5535" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	11+675.521	10021990.371	753252.127
SPI:		10022002.513	753253.453
ET:	11+710.521	10022019.306	753270.504

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	35.000	L Tan:	23.932
Radius:	25.575	S Tan:	12.213
Theta:	39° 12' 16.5395"	P:	1.963
X:	33.397	K:	17.230
Y:	7.720	A:	29.919
Chord:	34.277	Course:	N 32° 25' 15.7137" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud

Inicio:	11+710.521	10022019.306	753270.504
Fin:	11+718.010	10022024.560	753275.840

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.488	Course:	N 45° 26' 12.6196" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+718.010	10022024.560	753275.840
SPI:		10022036.336	753287.796
EE:	11+743.010	10022043.994	753291.337

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.781
Radius:	34.732	S Tan:	8.438
Theta:	20° 37' 14.6908"	P:	0.746
X:	24.678	K:	12.446
Y:	2.972	A:	29.467
Chord:	24.856	Course:	N 38° 34' 14.9417" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	11+743.010	10022043.994	753291.337
SPI:		10022051.652	753294.878
ET:	11+768.010	10022068.389	753296.106

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.781
Radius:	34.732	S Tan:	8.438
Theta:	20° 37' 14.6908"	P:	0.746
X:	24.678	K:	12.446
Y:	2.972	A:	29.467
Chord:	24.856	Course:	N 11° 03' 40.9158" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+768.010	10022068.389	753296.106
Fin:	11+775.532	10022075.891	753296.656

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.522	Course:	N 04° 11' 43.2379" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+775.532	10022075.891	753296.656
SPI:		10022094.537	753298.024
EC:	11+803.532	10022103.850	753297.073

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.697
Radius:	80.000	S Tan:	9.361
Theta:	10° 01' 36.3411"	P:	0.408
X:	27.914	K:	13.986
Y:	1.630	A:	47.329
Chord:	27.962	Course:	N 00° 51' 14.2460" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud

EC:	11+803.532	10022103.850	753297.073
RP:		10022095.721	753217.487
CE:	11+823.617	10022123.366	753292.559

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 23' 05.0992"	Type:	LEFT
Radius:	80.000		
Length:	20.085	Tangent:	10.096
Mid-Ord:	0.629	External:	0.634
Chord:	20.032	Course:	N 13° 01' 25.6528" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	11+823.617	10022123.366	753292.559
SPI:		10022132.150	753289.324
ET:	11+851.617	10022148.302	753279.907

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.697
Radius:	80.000	S Tan:	9.361
Theta:	10° 01' 36.3411"	P:	0.408
X:	27.914	K:	13.986
Y:	1.630	A:	47.329
Chord:	27.962	Course:	N 26° 54' 05.5515" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+851.617	10022148.302	753279.907
Fin:	11+884.221	10022176.469	753263.486

Tangent Data

Parameter	Value	Parameter	Value
Length:	32.604	Course:	N 30° 14' 34.5435" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+884.221	10022176.469	753263.486
SPI:		10022193.829	753253.364
EC:	11+914.221	10022203.655	753251.086

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 24° 31' 03.8126" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	11+914.221	10022203.655	753251.086
RP:		10022214.949	753299.794
CE:	11+956.354	10022243.790	753258.950

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	48° 16' 53.7749"	Type:	RIGHT
Radius:	50.000		
Length:	42.134	Tangent:	22.409
Mid-Ord:	4.373	External:	4.792

Chord:	40.898	Course:	N 11° 05' 11.7859" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	11+956.354	10022243.790	753258.950
SPI:		10022252.029	753264.769
ET:	11+986.354	10022264.286	753280.693

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 46° 41' 27.3844" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	11+986.354	10022264.286	753280.693
Fin:	11+989.183	10022266.010	753282.934

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.828	Course:	N 52° 24' 58.1152" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	11+989.183	10022266.010	753282.934
SPI:		10022278.276	753298.871
EE:	12+019.183	10022286.662	753304.502

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.111
Radius:	46.360	S Tan:	10.101
Theta:	18° 32' 18.4105"	P:	0.806
X:	29.687	K:	14.948
Y:	3.211	A:	37.293
Chord:	29.861	Course:	N 46° 14' 31.7443" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	12+019.183	10022286.662	753304.502
SPI:		10022293.629	753309.179
ET:	12+044.183	10022309.502	753314.468

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.731
Radius:	46.360	S Tan:	8.391
Theta:	15° 26' 55.3421"	P:	0.560
X:	24.819	K:	12.470
Y:	2.235	A:	34.044
Chord:	24.919	Course:	N 23° 34' 31.3803" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+044.183	10022309.502	753314.468
Fin:	12+101.946	10022364.303	753332.729

Tangent Data

Parameter	Value	Parameter	Value

Length:	57.764	Course:	N 18° 25' 44.3627" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+101.946	10022364.303	753332.729
SPI:		10022386.540	753340.139
EC:	12+136.946	10022398.296	753340.491

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	35.000	L Tan:	23.438
Radius:	60.000	S Tan:	11.762
Theta:	16° 42' 40.5685"	P:	0.848
X:	34.703	K:	17.450
Y:	3.382	A:	45.826
Chord:	34.868	Course:	N 12° 51' 45.3115" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	12+136.946	10022398.296	753340.491
RP:		10022400.095	753280.518
CE:	12+165.855	10022426.292	753334.497

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	27° 36' 21.7883"	Type:	LEFT
Radius:	60.000		
Length:	28.909	Tangent:	14.741
Mid-Ord:	1.733	External:	1.784
Chord:	28.630	Course:	N 12° 05' 07.1000" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	12+165.855	10022426.292	753334.497
SPI:		10022436.874	753329.362
ET:	12+200.855	10022454.126	753313.497

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	35.000	L Tan:	23.438
Radius:	60.000	S Tan:	11.762
Theta:	16° 42' 40.5685"	P:	0.848
X:	34.703	K:	17.450
Y:	3.382	A:	45.826
Chord:	34.868	Course:	N 37° 01' 59.5115" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+200.855	10022454.126	753313.497
Fin:	12+274.265	10022508.163	753263.808

Tangent Data

Parameter	Value	Parameter	Value
Length:	73.409	Course:	N 42° 35' 58.5626" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	12+274.265	10022508.163	753263.808
RP:		10022433.707	753182.837
PT:	12+296.745	10022523.046	753247.013

Circular Curve Data

Parameter	Value	Parameter	Value

Delta:	11° 42' 32.9845"	Type:	LEFT
Radius:	110.000		
Length:	22.480	Tangent:	11.279
Mid-Ord:	0.574	External:	0.577
Chord:	22.441	Course:	N 48° 27' 15.0549" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+296.745	10022523.046	753247.013
Fin:	12+320.192	10022536.726	753227.970

Tangent Data

Parameter	Value	Parameter	Value
Length:	23.447	Course:	N 54° 18' 31.5471" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+320.192	10022536.726	753227.970
SPI:		10022546.463	753214.414
EE:	12+345.192	10022552.384	753208.520

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.690
Radius:	75.882	S Tan:	8.355
Theta:	09° 26' 18.0055"	P:	0.343
X:	24.932	K:	12.489
Y:	1.370	A:	43.555
Chord:	24.970	Course:	N 51° 09' 48.1488" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	12+345.192	10022552.384	753208.520
SPI:		10022558.306	753202.625
ET:	12+370.192	10022571.905	753192.949

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.690
Radius:	75.882	S Tan:	8.355
Theta:	09° 26' 18.0055"	P:	0.343
X:	24.932	K:	12.489
Y:	1.370	A:	43.555
Chord:	24.970	Course:	N 38° 34' 38.9344" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+370.192	10022571.905	753192.949
Fin:	12+371.269	10022572.783	753192.325

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.077	Course:	N 35° 25' 55.5362" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+371.269	10022572.783	753192.325
SPI:		10022589.109	753180.709
EC:	12+401.269	10022598.226	753176.518

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.037

Radius:	80.000	S Tan:	10.034
Theta:	10° 44' 34.6512"	P:	0.468
X:	29.895	K:	14.982
Y:	1.870	A:	48.990
Chord:	29.953	Course:	N 31° 51' 07.8256" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	12+401.269	10022598.226	753176.518
RP:		10022631.641	753249.205
CE:	12+439.213	10022635.111	753169.280

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	27° 10' 29.6065"	Type:	RIGHT
Radius:	80.000		
Length:	37.943	Tangent:	19.335
Mid-Ord:	2.239	External:	2.303
Chord:	37.589	Course:	N 11° 06' 06.0815" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	12+439.213	10022635.111	753169.280
SPI:		10022645.135	753169.715
ET:	12+469.213	10022664.640	753174.300

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.037
Radius:	80.000	S Tan:	10.034
Theta:	10° 44' 34.6512"	P:	0.468
X:	29.895	K:	14.982
Y:	1.870	A:	48.990
Chord:	29.953	Course:	N 09° 38' 55.6625" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+469.213	10022664.640	753174.300
Fin:	12+474.752	10022670.033	753175.568

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.539	Course:	N 13° 13' 43.3729" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+474.752	10022670.033	753175.568
SPI:		10022684.816	753179.043
EE:	12+496.752	10022691.407	753174.858

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	22.000	L Tan:	15.186
Radius:	13.808	S Tan:	7.808
Theta:	45° 38' 33.0821"	P:	1.428
X:	20.645	K:	10.771
Y:	5.582	A:	17.429
Chord:	21.386	Course:	N 01° 54' 08.8217" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	12+496.752	10022691.407	753174.858

SPI:		10022697.998	753170.673
ET:	12+518.752	10022701.140	753155.816

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	22.000	L Tan:	15.186
Radius:	13.808	S Tan:	7.808
Theta:	45° 38' 33.0821"	P:	1.428
X:	20.645	K:	10.771
Y:	5.582	A:	17.429
Chord:	21.386	Course:	N 62° 55' 30.5968" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+518.752	10022701.140	753155.816
Fin:	12+518.805	10022701.151	753155.764

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.053	Course:	N 78° 03' 22.7957" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+518.805	10022701.151	753155.764
SPI:		10022704.300	753140.877
EE:	12+540.805	10022699.813	753134.454

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	22.000	L Tan:	15.216
Radius:	13.443	S Tan:	7.836
Theta:	46° 53' 02.4733"	P:	1.465
X:	20.573	K:	10.759
Y:	5.720	A:	17.197
Chord:	21.352	Course:	S 86° 24' 20.5471" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	12+540.805	10022699.813	753134.454
SPI:		10022695.325	753128.030
ET:	12+562.805	10022680.263	753125.866

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	22.000	L Tan:	15.216
Radius:	13.443	S Tan:	7.836
Theta:	46° 53' 02.4733"	P:	1.465
X:	20.573	K:	10.759
Y:	5.720	A:	17.197
Chord:	21.352	Course:	S 23° 42' 48.9176" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+562.805	10022680.263	753125.866
Fin:	12+569.228	10022673.906	753124.953

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.423	Course:	S 08° 10' 32.2591" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+569.228	10022673.906	753124.953

SPI:		10022655.417	753122.297
EC:	12+597.228	10022646.076	753122.010

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.679
Radius:	125.000	S Tan:	9.344
Theta:	06° 25' 01.6583"	P:	0.261
X:	27.965	K:	13.994
Y:	1.044	A:	59.161
Chord:	27.984	Course:	S 06° 02' 12.5243" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	12+597.228	10022646.076	753122.010
RP:		10022642.241	753246.951
CE:	12+624.063	10022619.372	753124.061

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	12° 18' 00.4631"	Type:	LEFT
Radius:	125.000		
Length:	26.835	Tangent:	13.469
Mid-Ord:	0.719	External:	0.724
Chord:	26.783	Course:	S 04° 23' 29.6307" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	12+624.063	10022619.372	753124.061
SPI:		10022610.185	753125.770
ET:	12+652.063	10022592.318	753131.219

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.679
Radius:	125.000	S Tan:	9.344
Theta:	06° 25' 01.6583"	P:	0.261
X:	27.965	K:	13.994
Y:	1.044	A:	59.161
Chord:	27.984	Course:	S 14° 49' 11.7858" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+652.063	10022592.318	753131.219
Fin:	12+711.699	10022535.276	753148.613

Tangent Data

Parameter	Value	Parameter	Value
Length:	59.636	Course:	S 16° 57' 31.5206" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+711.699	10022535.276	753148.613
SPI:		10022519.307	753153.483
EC:	12+736.699	10022511.872	753157.302

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.695
Radius:	70.000	S Tan:	8.359
Theta:	10° 13' 53.0012"	P:	0.372
X:	24.920	K:	12.487
Y:	1.485	A:	41.833

Chord:	24.965	Course:	S 20° 22' 05.8707" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	12+736.699	10022511.872	753157.302
RP:		10022543.858	753219.567
CE:	12+756.279	10022495.925	753168.553

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	16° 01' 36.3942"	Type:	LEFT
Radius:	70.000		
Length:	19.580	Tangent:	9.855
Mid-Ord:	0.684	External:	0.690
Chord:	19.517	Course:	S 35° 12' 12.7188" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	12+756.279	10022495.925	753168.553
SPI:		10022489.833	753174.277
ET:	12+781.279	10022479.891	753187.688

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.695
Radius:	70.000	S Tan:	8.359
Theta:	10° 13' 53.0012"	P:	0.372
X:	24.920	K:	12.487
Y:	1.485	A:	41.833
Chord:	24.965	Course:	S 50° 02' 19.5669" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+781.279	10022479.891	753187.688
Fin:	12+790.307	10022474.514	753194.941

Tangent Data

Parameter	Value	Parameter	Value
Length:	9.028	Course:	S 53° 26' 53.9171" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+790.307	10022474.514	753194.941
SPI:		10022462.514	753211.127
EC:	12+820.307	10022453.915	753216.493

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.149
Radius:	40.000	S Tan:	10.136
Theta:	21° 29' 09.3023"	P:	0.933
X:	29.581	K:	14.930
Y:	3.713	A:	34.641
Chord:	29.813	Course:	S 46° 17' 41.6154" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	12+820.307	10022453.915	753216.493
RP:		10022432.740	753182.557
CE:	12+865.618	10022410.990	753216.127

Circular Curve Data

Parameter	Value	Parameter	Value

Delta:	64° 54' 08.0167"	Type:	RIGHT
Radius:	40.000		
Length:	45.310	Tangent:	25.435
Mid-Ord:	6.246	External:	7.402
Chord:	42.926	Course:	S 00° 29' 19.3936" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	12+865.618	10022410.990	753216.127
SPI:		10022402.484	753210.615
ET:	12+895.618	10022390.762	753194.227

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.149
Radius:	40.000	S Tan:	10.136
Theta:	21° 29' 09.3023"	P:	0.933
X:	29.581	K:	14.930
Y:	3.713	A:	34.641
Chord:	29.813	Course:	S 47° 16' 20.4027" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+895.618	10022390.762	753194.227
Fin:	12+899.573	10022388.460	753191.009

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.956	Course:	S 54° 25' 32.7043" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	12+899.573	10022388.460	753191.009
SPI:		10022376.824	753174.740
EC:	12+929.573	10022370.605	753166.905

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.003
Radius:	300.000	S Tan:	10.002
Theta:	02° 51' 53.2403"	P:	0.125
X:	29.993	K:	14.999
Y:	0.500	A:	94.868
Chord:	29.997	Course:	S 53° 28' 15.0303" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	12+929.573	10022370.605	753166.905
RP:		10022135.624	753353.410
CE:	12+954.029	10022354.638	753148.390

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 40' 14.7101"	Type:	LEFT
Radius:	300.000		
Length:	24.456	Tangent:	12.235
Mid-Ord:	0.249	External:	0.249
Chord:	24.449	Course:	S 49° 13' 32.1090" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	12+954.029	10022354.638	753148.390

SPI:		10022347.802	753141.088
ET:	12+984.029	10022333.420	753127.187

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.003
Radius:	300.000	S Tan:	10.002
Theta:	02° 51' 53.2403"	P:	0.125
X:	29.993	K:	14.999
Y:	0.500	A:	94.868
Chord:	29.997	Course:	S 44° 58' 49.1876" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	12+984.029	10022333.420	753127.187
Fin:	13+031.885	10022299.010	753093.928

Tangent Data

Parameter	Value	Parameter	Value
Length:	47.856	Course:	S 44° 01' 31.5136" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+031.885	10022299.010	753093.928
SPI:		10022284.522	753079.924
EC:	13+061.885	10022280.320	753070.700

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.149
Radius:	40.000	S Tan:	10.136
Theta:	21° 29' 09.3023"	P:	0.933
X:	29.581	K:	14.930
Y:	3.713	A:	34.641
Chord:	29.813	Course:	S 51° 10' 43.8152" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	13+061.885	10022280.320	753070.700
RP:		10022316.722	753054.120
CE:	13+127.582	10022302.789	753016.625

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	94° 06' 09.9745"	Type:	RIGHT
Radius:	40.000		
Length:	65.696	Tangent:	42.972
Mid-Ord:	12.746	External:	18.708
Chord:	58.557	Course:	N 67° 26' 14.1969" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	13+127.582	10022302.789	753016.625
SPI:		10022312.290	753013.094
ET:	13+157.582	10022332.435	753013.481

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.149
Radius:	40.000	S Tan:	10.136
Theta:	21° 29' 09.3023"	P:	0.933
X:	29.581	K:	14.930
Y:	3.713	A:	34.641

Chord:	29.813	Course:	N 06° 03' 12.2089" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	13+157.582	10022332.435	753013.481
Fin:	13+157.680	10022332.533	753013.483

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.098	Course:	N 01° 06' 00.0925" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+157.680	10022332.533	753013.483
SPI:		10022352.768	753013.872
EE:	13+187.680	10022361.778	753018.687

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.238
Radius:	31.805	S Tan:	10.217
Theta:	27° 01' 18.7630"	P:	1.170
X:	29.340	K:	14.889
Y:	4.642	A:	30.889
Chord:	29.704	Course:	N 10° 05' 24.9584" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	13+187.680	10022361.778	753018.687
SPI:		10022370.789	753023.503
ET:	13+217.680	10022382.355	753040.110

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.238
Radius:	31.805	S Tan:	10.217
Theta:	27° 01' 18.7630"	P:	1.170
X:	29.340	K:	14.889
Y:	4.642	A:	30.889
Chord:	29.704	Course:	N 46° 09' 12.7529" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	13+217.680	10022382.355	753040.110
Fin:	13+234.238	10022391.819	753053.698

Tangent Data

Parameter	Value	Parameter	Value
Length:	16.559	Course:	N 55° 08' 37.6186" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+234.238	10022391.819	753053.698
SPI:		10022403.404	753070.331
EE:	13+264.238	10022412.579	753074.890

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.270
Radius:	29.920	S Tan:	10.246
Theta:	28° 43' 26.5030"	P:	1.242
X:	29.255	K:	14.875
Y:	4.924	A:	29.960

Chord:	29.666	Course:	N 45° 35' 22.5718" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	13+264.238	10022412.579	753074.890
SPI:		10022421.755	753079.449
ET:	13+294.238	10022442.008	753078.634

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.270
Radius:	29.920	S Tan:	10.246
Theta:	28° 43' 26.5030"	P:	1.242
X:	29.255	K:	14.875
Y:	4.924	A:	29.960
Chord:	29.666	Course:	N 07° 14' 59.6594" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	13+294.238	10022442.008	753078.634
Fin:	13+321.178	10022468.926	753077.550

Tangent Data

Parameter	Value	Parameter	Value
Length:	26.940	Course:	N 02° 18' 15.3874" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+321.178	10022468.926	753077.550
SPI:		10022488.976	753076.744
EC:	13+351.178	10022498.615	753073.865

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.066
Radius:	60.000	S Tan:	10.060
Theta:	14° 19' 26.2016"	P:	0.624
X:	29.813	K:	14.969
Y:	2.489	A:	42.426
Chord:	29.917	Course:	N 07° 04' 35.0129" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	13+351.178	10022498.615	753073.865
RP:		10022481.446	753016.374
CE:	13+393.667	10022531.881	753048.875

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	40° 34' 25.0857"	Type:	LEFT
Radius:	60.000		
Length:	42.489	Tangent:	22.179
Mid-Ord:	3.722	External:	3.968
Chord:	41.606	Course:	N 36° 54' 54.1318" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	13+393.667	10022531.881	753048.875
SPI:		10022537.330	753040.419
ET:	13+423.667	10022543.688	753021.387

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value

Length:	30.000	L Tan:	20.066
Radius:	60.000	S Tan:	10.060
Theta:	14° 19' 26.2016"	P:	0.624
X:	29.813	K:	14.969
Y:	2.489	A:	42.426
Chord:	29.917	Course:	N 66° 45' 13.2508" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	13+423.667	10022543.688	753021.387
Fin:	13+436.565	10022547.775	753009.154

Tangent Data

Parameter	Value	Parameter	Value
Length:	12.898	Course:	N 71° 31' 32.8762" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+436.565	10022547.775	753009.154
SPI:		10022554.143	752990.094
EC:	13+466.565	10022560.024	752981.899

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 65° 48' 02.1454" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	13+466.565	10022560.024	752981.899
RP:		10022600.647	753011.050
CE:	13+499.913	10022586.762	752963.016

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	38° 12' 51.1827"	Type:	RIGHT
Radius:	50.000		
Length:	33.348	Tangent:	17.321
Mid-Ord:	2.755	External:	2.915
Chord:	32.734	Course:	N 35° 13' 47.8430" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	13+499.913	10022586.762	752963.016
SPI:		10022596.452	752960.215
ET:	13+529.913	10022616.543	752960.589

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.095
Radius:	50.000	S Tan:	10.087
Theta:	17° 11' 19.4419"	P:	0.748
X:	29.731	K:	14.955
Y:	2.981	A:	38.730
Chord:	29.880	Course:	N 04° 39' 33.5406" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud

Inicio:	13+529.913	10022616.543	752960.589
Fin:	13+691.095	10022777.698	752963.588

Tangent Data

Parameter	Value	Parameter	Value
Length:	161.182	Course:	N 01° 03' 57.1903" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+691.095	10022777.698	752963.588
SPI:		10022797.962	752963.965
EC:	13+721.095	10022807.042	752959.221

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.268
Radius:	30.000	S Tan:	10.244
Theta:	28° 38' 52.4031"	P:	1.239
X:	29.259	K:	14.876
Y:	4.911	A:	30.000
Chord:	29.668	Course:	N 08° 27' 47.0774" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	13+721.095	10022807.042	752959.221
RP:		10022793.152	752932.631
CE:	13+740.363	10022820.203	752945.603

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	36° 47' 55.1808"	Type:	LEFT
Radius:	30.000		
Length:	19.268	Tangent:	9.979
Mid-Ord:	1.534	External:	1.616
Chord:	18.938	Course:	N 45° 58' 52.8032" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	13+740.363	10022820.203	752945.603
SPI:		10022824.632	752936.365
ET:	13+770.363	10022823.561	752916.125

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.268
Radius:	30.000	S Tan:	10.244
Theta:	28° 38' 52.4031"	P:	1.239
X:	29.259	K:	14.876
Y:	4.911	A:	30.000
Chord:	29.668	Course:	N 83° 29' 58.5290" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	13+770.363	10022823.561	752916.125
Fin:	13+778.094	10022823.153	752908.404

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.732	Course:	S 86° 58' 17.2033" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+778.094	10022823.153	752908.404

SPI:		10022822.448	752895.079
EE:	13+798.094	10022822.905	752888.419

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.344
Radius:	82.358	S Tan:	6.676
Theta:	06° 57' 24.8609"	P:	0.202
X:	19.971	K:	9.995
Y:	0.809	A:	40.585
Chord:	19.987	Course:	S 89° 17' 24.4479" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	13+798.094	10022822.905	752888.419
SPI:		10022823.363	752881.759
ET:	13+818.094	10022825.882	752868.655

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.344
Radius:	82.358	S Tan:	6.676
Theta:	06° 57' 24.8609"	P:	0.202
X:	19.971	K:	9.995
Y:	0.809	A:	40.585
Chord:	19.987	Course:	N 81° 26' 00.3196" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	13+818.094	10022825.882	752868.655
Fin:	13+818.871	10022826.029	752867.892

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.777	Course:	N 79° 06' 53.0748" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+818.871	10022826.029	752867.892
SPI:		10022828.551	752854.779
EE:	13+838.871	10022828.680	752848.095

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.354
Radius:	58.588	S Tan:	6.685
Theta:	09° 46' 46.1743"	P:	0.284
X:	19.942	K:	9.990
Y:	1.136	A:	34.231
Chord:	19.974	Course:	N 82° 22' 25.5697" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	13+838.871	10022828.680	752848.095
SPI:		10022828.809	752841.411
ET:	13+858.871	10022826.795	752828.210

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.354
Radius:	58.588	S Tan:	6.685
Theta:	09° 46' 46.1743"	P:	0.284
X:	19.942	K:	9.990

Y:	1.136	A:	34.231
Chord:	19.974	Course:	S 84° 35' 07.0719" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	13+858.871	10022826.795	752828.210
Fin:	13+891.603	10022821.859	752795.852

Tangent Data

Parameter	Value	Parameter	Value
Length:	32.732	Course:	S 81° 19' 34.5768" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	13+891.603	10022821.859	752795.852
SPI:		10022818.839	752776.057
EC:	13+921.603	10022815.864	752766.488

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.024
Radius:	100.000	S Tan:	10.021
Theta:	08° 35' 39.7210"	P:	0.375
X:	29.933	K:	14.989
Y:	1.498	A:	54.772
Chord:	29.970	Course:	S 78° 27' 43.3020" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	13+921.603	10022815.864	752766.488
RP:		10022720.372	752796.172
CE:	13+953.720	10022801.611	752737.861

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 24' 04.9895"	Type:	LEFT
Radius:	100.000		
Length:	32.116	Tangent:	16.198
Mid-Ord:	1.287	External:	1.303
Chord:	31.979	Course:	S 63° 31' 52.3611" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	13+953.720	10022801.611	752737.861
SPI:		10022795.767	752729.720
ET:	13+983.720	10022781.792	752715.380

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.024
Radius:	100.000	S Tan:	10.021
Theta:	08° 35' 39.7210"	P:	0.375
X:	29.933	K:	14.989
Y:	1.498	A:	54.772
Chord:	29.970	Course:	S 48° 36' 01.4202" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	13+983.720	10022781.792	752715.380
Fin:	14+028.945	10022750.226	752682.993

Tangent Data

Parameter	Value	Parameter	Value

Length:	45.225	Course:	S 45° 44' 10.1454" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+028.945	10022750.226	752682.993
SPI:		10022735.997	752668.393
EE:	14+058.945	10022734.189	752658.200

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.387
Radius:	25.126	S Tan:	10.352
Theta:	34° 12' 20.6341"	P:	1.474
X:	28.948	K:	14.824
Y:	5.820	A:	27.455
Chord:	29.527	Course:	S 57° 06' 12.0962" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+058.945	10022734.189	752658.200
SPI:		10022732.381	752648.007
ET:	14+088.945	10022740.721	752629.404

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.387
Radius:	25.126	S Tan:	10.352
Theta:	34° 12' 20.6341"	P:	1.474
X:	28.948	K:	14.824
Y:	5.820	A:	27.455
Chord:	29.527	Course:	N 77° 13' 10.5372" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+088.945	10022740.721	752629.404
Fin:	14+092.868	10022742.326	752625.825

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.923	Course:	N 65° 51' 08.5864" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+092.868	10022742.326	752625.825
SPI:		10022749.471	752609.887
EE:	14+118.868	10022749.837	752601.107

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	17.466
Radius:	34.232	S Tan:	8.787
Theta:	21° 45' 31.3571"	P:	0.819
X:	25.628	K:	12.938
Y:	3.258	A:	29.833
Chord:	25.834	Course:	N 73° 05' 47.0487" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+118.868	10022749.837	752601.107
SPI:		10022750.203	752592.327
ET:	14+144.868	10022744.410	752575.850

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	17.466
Radius:	34.232	S Tan:	8.787
Theta:	21° 45' 31.3571"	P:	0.819
X:	25.628	K:	12.938
Y:	3.258	A:	29.833
Chord:	25.834	Course:	S 77° 52' 27.1617" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+144.868	10022744.410	752575.850
Fin:	14+148.511	10022743.202	752572.413

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.643	Course:	S 70° 37' 48.6994" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+148.511	10022743.202	752572.413
SPI:		10022737.053	752554.922
EE:	14+175.511	10022740.744	752546.175

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	27.000	L Tan:	18.541
Radius:	18.308	S Tan:	9.494
Theta:	42° 14' 52.0856"	P:	1.627
X:	25.569	K:	13.259
Y:	6.383	A:	22.234
Chord:	26.353	Course:	S 84° 38' 49.5983" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+175.511	10022740.744	752546.175
SPI:		10022744.435	752537.428
ET:	14+202.511	10022761.255	752529.629

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	27.000	L Tan:	18.541
Radius:	18.308	S Tan:	9.494
Theta:	42° 14' 52.0856"	P:	1.627
X:	25.569	K:	13.259
Y:	6.383	A:	22.234
Chord:	26.353	Course:	N 38° 53' 28.0284" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+202.511	10022761.255	752529.629
Fin:	14+228.856	10022785.157	752518.547

Tangent Data

Parameter	Value	Parameter	Value
Length:	26.345	Course:	N 24° 52' 27.1295" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+228.856	10022785.157	752518.547
SPI:		10022803.689	752509.955
EE:	14+258.856	10022808.765	752500.891

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.427
Radius:	23.954	S Tan:	10.389
Theta:	35° 52' 45.6632"	P:	1.544
X:	28.845	K:	14.806
Y:	6.089	A:	26.807
Chord:	29.480	Course:	N 36° 47' 38.0482" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+258.856	10022808.765	752500.891
SPI:		10022813.840	752491.826
ET:	14+288.856	10022811.481	752471.536

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.427
Radius:	23.954	S Tan:	10.389
Theta:	35° 52' 45.6632"	P:	1.544
X:	28.845	K:	14.806
Y:	6.089	A:	26.807
Chord:	29.480	Course:	N 84° 42' 47.5371" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+288.856	10022811.481	752471.536
Fin:	14+291.920	10022811.127	752468.492

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.064	Course:	S 83° 22' 01.5441" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+291.920	10022811.127	752468.492
SPI:		10022808.717	752447.767
EE:	14+321.920	10022816.144	752439.938

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.865
Radius:	17.145	S Tan:	10.791
Theta:	50° 07' 35.2000"	P:	2.128
X:	27.785	K:	14.625
Y:	8.282	A:	22.680
Chord:	28.992	Course:	N 80° 02' 03.8385" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+321.920	10022816.144	752439.938
SPI:		10022823.572	752432.109
ET:	14+351.920	10022844.396	752433.427

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.865
Radius:	17.145	S Tan:	10.791
Theta:	50° 07' 35.2000"	P:	2.128
X:	27.785	K:	14.625
Y:	8.282	A:	22.680
Chord:	28.992	Course:	N 12° 58' 42.6732" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+351.920	10022844.396	752433.427
Fin:	14+353.450	10022845.923	752433.523

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.530	Course:	N 03° 37' 11.9441" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+353.450	10022845.923	752433.523
SPI:		10022859.232	752434.365
EE:	14+373.450	10022865.852	752435.169

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.336
Radius:	173.581	S Tan:	6.669
Theta:	03° 18' 02.9388"	P:	0.096
X:	19.993	K:	9.999
Y:	0.384	A:	58.920
Chord:	19.997	Course:	N 04° 43' 12.8124" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+373.450	10022865.852	752435.169
SPI:		10022872.472	752435.973
ET:	14+393.450	10022885.596	752438.339

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.336
Radius:	173.581	S Tan:	6.669
Theta:	03° 18' 02.9388"	P:	0.096
X:	19.993	K:	9.999
Y:	0.384	A:	58.920
Chord:	19.997	Course:	N 09° 07' 16.9534" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+393.450	10022885.596	752438.339
Fin:	14+445.958	10022937.271	752447.657

Tangent Data

Parameter	Value	Parameter	Value
Length:	52.508	Course:	N 10° 13' 17.8217" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	14+445.958	10022937.271	752447.657
RP:		10023025.999	751955.593
PT:	14+464.919	10022955.990	752450.667

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 10' 21.7483"	Type:	LEFT
Radius:	500.000		
Length:	18.960	Tangent:	9.481
Mid-Ord:	0.090	External:	0.090
Chord:	18.959	Course:	N 09° 08' 06.9476" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+464.919	10022955.990	752450.667
Fin:	14+512.524	10023003.126	752457.333

Tangent Data

Parameter	Value	Parameter	Value
Length:	47.605	Course:	N 08° 02' 56.0734" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	14+512.524	10023003.126	752457.333
RP:		10023031.129	752259.303
PT:	14+541.005	10023031.515	752459.302

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 09' 33.4210"	Type:	LEFT
Radius:	200.000		
Length:	28.481	Tangent:	14.265
Mid-Ord:	0.507	External:	0.508
Chord:	28.457	Course:	N 03° 58' 09.3629" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+541.005	10023031.515	752459.302
Fin:	14+554.483	10023044.992	752459.276

Tangent Data

Parameter	Value	Parameter	Value
Length:	13.478	Course:	N 00° 06' 37.3476" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+554.483	10023044.992	752459.276
SPI:		10023065.122	752459.238
EE:	14+584.483	10023074.632	752462.695

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.130
Radius:	42.783	S Tan:	10.119
Theta:	20° 05' 18.6258"	P:	0.873
X:	29.633	K:	14.939
Y:	3.475	A:	35.826
Chord:	29.836	Course:	N 06° 34' 43.6997" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+584.483	10023074.632	752462.695
SPI:		10023084.142	752466.152
ET:	14+614.483	10023099.547	752479.109

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.130
Radius:	42.783	S Tan:	10.119
Theta:	20° 05' 18.6258"	P:	0.873
X:	29.633	K:	14.939
Y:	3.475	A:	35.826
Chord:	29.836	Course:	N 33° 22' 38.8567" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud

Inicio:	14+614.483	10023099.547	752479.109
Fin:	14+619.440	10023103.341	752482.300

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.957	Course:	N 40° 03' 59.9040" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+619.440	10023103.341	752482.300
SPI:		10023116.203	752493.118
EE:	14+644.440	10023124.276	752495.645

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.806
Radius:	31.576	S Tan:	8.460
Theta:	22° 40' 53.4577"	P:	0.820
X:	24.611	K:	12.435
Y:	3.262	A:	28.096
Chord:	24.826	Course:	N 32° 30' 58.3309" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+644.440	10023124.276	752495.645
SPI:		10023132.349	752498.173
ET:	14+669.440	10023149.083	752496.622

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.806
Radius:	31.576	S Tan:	8.460
Theta:	22° 40' 53.4577"	P:	0.820
X:	24.611	K:	12.435
Y:	3.262	A:	28.096
Chord:	24.826	Course:	N 02° 15' 14.5615" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+669.440	10023149.083	752496.622
Fin:	14+670.047	10023149.688	752496.566

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.607	Course:	N 05° 17' 47.0114" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+670.047	10023149.688	752496.566
SPI:		10023166.500	752495.007
EE:	14+695.047	10023174.354	752498.340

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.885
Radius:	25.319	S Tan:	8.532
Theta:	28° 17' 11.1391"	P:	1.020
X:	24.398	K:	12.399
Y:	4.043	A:	25.159
Chord:	24.730	Course:	N 04° 06' 46.2483" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud

EE:	14+695.047	10023174.354	752498.340
SPI:		10023182.208	752501.672
ET:	14+720.047	10023192.771	752514.845

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.885
Radius:	25.319	S Tan:	8.532
Theta:	28° 17' 11.1391"	P:	1.020
X:	24.398	K:	12.399
Y:	4.043	A:	25.159
Chord:	24.730	Course:	N 41° 52' 02.0069" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+720.047	10023192.771	752514.845
Fin:	14+750.258	10023211.670	752538.414

Tangent Data

Parameter	Value	Parameter	Value
Length:	30.211	Course:	N 51° 16' 35.2667" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+750.258	10023211.670	752538.414
SPI:		10023222.981	752552.521
EE:	14+776.258	10023232.329	752552.719

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	18.081
Radius:	14.877	S Tan:	9.351
Theta:	50° 03' 57.6706"	P:	1.842
X:	24.085	K:	12.676
Y:	7.170	A:	19.667
Chord:	25.128	Course:	N 34° 41' 51.7068" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+776.258	10023232.329	752552.719
SPI:		10023241.678	752552.916
ET:	14+802.258	10023253.575	752539.300

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	18.081
Radius:	14.877	S Tan:	9.351
Theta:	50° 03' 57.6706"	P:	1.842
X:	24.085	K:	12.676
Y:	7.170	A:	19.667
Chord:	25.128	Course:	N 32° 16' 36.5146" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+802.258	10023253.575	752539.300
Fin:	14+803.247	10023254.225	752538.556

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.988	Course:	N 48° 51' 20.0745" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud

TE:	14+803.247	10023254.225	752538.556
SPI:		10023265.402	752525.763
EE:	14+828.247	10023273.746	752523.574

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.988
Radius:	20.970	S Tan:	8.626
Theta:	34° 09' 09.7198"	P:	1.226
X:	24.126	K:	12.353
Y:	4.843	A:	22.897
Chord:	24.607	Course:	N 37° 30' 21.1782" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+828.247	10023273.746	752523.574
SPI:		10023282.089	752521.384
ET:	14+853.247	10023298.108	752527.041

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.988
Radius:	20.970	S Tan:	8.626
Theta:	34° 09' 09.7198"	P:	1.226
X:	24.126	K:	12.353
Y:	4.843	A:	22.897
Chord:	24.607	Course:	N 08° 06' 00.4691" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+853.247	10023298.108	752527.041
Fin:	14+891.753	10023334.417	752539.863

Tangent Data

Parameter	Value	Parameter	Value
Length:	38.506	Course:	N 19° 26' 59.3653" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	14+891.753	10023334.417	752539.863
RP:		10023361.055	752464.428
PT:	14+901.769	10023344.045	752542.599

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 10' 24.9770"	Type:	LEFT
Radius:	80.000		
Length:	10.016	Tangent:	5.015
Mid-Ord:	0.157	External:	0.157
Chord:	10.010	Course:	N 15° 51' 46.8768" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+901.769	10023344.045	752542.599
Fin:	14+919.293	10023361.169	752546.325

Tangent Data

Parameter	Value	Parameter	Value
Length:	17.524	Course:	N 12° 16' 34.3883" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+919.293	10023361.169	752546.325

SPI:		10023377.485	752549.875
EE:	14+944.293	10023385.175	752553.159

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.698
Radius:	66.049	S Tan:	8.362
Theta:	10° 50' 36.5320"	P:	0.394
X:	24.911	K:	12.485
Y:	1.573	A:	40.635
Chord:	24.960	Course:	N 15° 53' 22.6167" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	14+944.293	10023385.175	752553.159
SPI:		10023392.866	752556.442
ET:	14+969.293	10023406.715	752565.770

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.698
Radius:	66.049	S Tan:	8.362
Theta:	10° 50' 36.5320"	P:	0.394
X:	24.911	K:	12.485
Y:	1.573	A:	40.635
Chord:	24.960	Course:	N 30° 20' 59.2238" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	14+969.293	10023406.715	752565.770
Fin:	14+973.367	10023410.093	752568.046

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.074	Course:	N 33° 57' 47.4522" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	14+973.367	10023410.093	752568.046
SPI:		10023426.910	752579.373
EE:	15+003.367	10023437.123	752580.254

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.276
Radius:	29.600	S Tan:	10.251
Theta:	29° 02' 04.8796"	P:	1.255
X:	29.239	K:	14.873
Y:	4.975	A:	29.800
Chord:	29.659	Course:	N 24° 18' 22.0435" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+003.367	10023437.123	752580.254
SPI:		10023447.337	752581.135
ET:	15+033.367	10023465.844	752572.854

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.276
Radius:	29.600	S Tan:	10.251
Theta:	29° 02' 04.8796"	P:	1.255
X:	29.239	K:	14.873

Y:	4.975	A:	29.800
Chord:	29.659	Course:	N 14° 26' 56.8983" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+033.367	10023465.844	752572.854
Fin:	15+061.023	10023491.088	752561.558

Tangent Data

Parameter	Value	Parameter	Value
Length:	27.656	Course:	N 24° 06' 22.3070" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+061.023	10023491.088	752561.558
SPI:		10023509.660	752553.248
EE:	15+091.023	10023515.350	752544.645

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.346
Radius:	26.514	S Tan:	10.315
Theta:	32° 24' 51.1048"	P:	1.398
X:	29.054	K:	14.841
Y:	5.529	A:	28.203
Chord:	29.575	Course:	N 34° 52' 53.1282" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+091.023	10023515.350	752544.645
SPI:		10023521.040	752536.041
ET:	15+121.023	10023521.418	752515.699

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.346
Radius:	26.514	S Tan:	10.315
Theta:	32° 24' 51.1048"	P:	1.398
X:	29.054	K:	14.841
Y:	5.529	A:	28.203
Chord:	29.575	Course:	N 78° 09' 33.6955" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+121.023	10023521.418	752515.699
Fin:	15+125.567	10023521.503	752511.155

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.544	Course:	N 88° 56' 04.5167" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+125.567	10023521.503	752511.155
SPI:		10023521.815	752494.353
EE:	15+150.567	10023525.220	752486.608

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.805
Radius:	31.599	S Tan:	8.460
Theta:	22° 39' 53.6933"	P:	0.820
X:	24.612	K:	12.435

Y:	3.260	A:	28.107
Chord:	24.827	Course:	N 81° 23' 22.7854" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+150.567	10023525.220	752486.608
SPI:		10023528.624	752478.864
ET:	15+175.567	10023540.793	752467.274

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.805
Radius:	31.599	S Tan:	8.460
Theta:	22° 39' 53.6933"	P:	0.820
X:	24.612	K:	12.435
Y:	3.260	A:	28.107
Chord:	24.827	Course:	N 51° 08' 58.8613" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+175.567	10023540.793	752467.274
Fin:	15+177.097	10023541.902	752466.218

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.531	Course:	N 43° 36' 17.1299" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+177.097	10023541.902	752466.218
SPI:		10023551.615	752456.966
EE:	15+197.097	10023557.764	752454.205

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.414
Radius:	29.503	S Tan:	6.740
Theta:	19° 25' 12.3624"	P:	0.563
X:	19.771	K:	9.962
Y:	2.241	A:	24.291
Chord:	19.898	Course:	N 37° 08' 15.7371" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+197.097	10023557.764	752454.205
SPI:		10023563.913	752451.444
ET:	15+217.097	10023577.281	752450.329

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.414
Radius:	29.503	S Tan:	6.740
Theta:	19° 25' 12.3624"	P:	0.563
X:	19.771	K:	9.962
Y:	2.241	A:	24.291
Chord:	19.898	Course:	N 11° 13' 53.7981" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+217.097	10023577.281	752450.329
Fin:	15+220.179	10023580.352	752450.073

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.082	Course:	N 04° 45' 52.4052" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+220.179	10023580.352	752450.073
SPI:		10023597.132	752448.675
EE:	15+245.179	10023604.488	752444.436

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.839
Radius:	28.434	S Tan:	8.490
Theta:	25° 11' 15.6864"	P:	0.910
X:	24.521	K:	12.420
Y:	3.613	A:	26.662
Chord:	24.786	Course:	N 13° 08' 47.9521" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+245.179	10023604.488	752444.436
SPI:		10023611.844	752440.197
ET:	15+270.179	10023621.469	752426.380

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.839
Radius:	28.434	S Tan:	8.490
Theta:	25° 11' 15.6864"	P:	0.910
X:	24.521	K:	12.420
Y:	3.613	A:	26.662
Chord:	24.786	Course:	N 46° 45' 28.2310" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+270.179	10023621.469	752426.380
Fin:	15+285.590	10023630.278	752413.734

Tangent Data

Parameter	Value	Parameter	Value
Length:	15.412	Course:	N 55° 08' 23.7779" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+285.590	10023630.278	752413.734
SPI:		10023644.479	752393.347
EE:	15+320.590	10023657.480	752394.509

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	35.000	L Tan:	24.846
Radius:	16.643	S Tan:	13.053
Theta:	60° 14' 52.1589"	P:	2.949
X:	31.328	K:	16.874
Y:	11.333	A:	24.135
Chord:	33.310	Course:	N 35° 15' 01.7257" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+320.590	10023657.480	752394.509
SPI:		10023670.481	752395.672
ET:	15+355.590	10023680.841	752418.254

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	35.000	L Tan:	24.846
Radius:	16.643	S Tan:	13.053
Theta:	60° 14' 52.1589"	P:	2.949
X:	31.328	K:	16.874
Y:	11.333	A:	24.135
Chord:	33.310	Course:	N 45° 27' 58.4877" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+355.590	10023680.841	752418.254
Fin:	15+358.167	10023681.916	752420.596

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.577	Course:	N 65° 21' 20.5399" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+358.167	10023681.916	752420.596
SPI:		10023689.216	752436.509
EC:	15+384.167	10023695.923	752442.243

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	17.507
Radius:	30.000	S Tan:	8.825
Theta:	24° 49' 41.4160"	P:	0.933
X:	25.516	K:	12.919
Y:	3.705	A:	27.928
Chord:	25.784	Course:	N 57° 05' 34.3129" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	15+384.167	10023695.923	752442.243
RP:		10023715.418	752419.440
CE:	15+400.908	10023710.955	752449.106

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	31° 58' 17.5390"	Type:	LEFT
Radius:	30.000		
Length:	16.740	Tangent:	8.594
Mid-Ord:	1.160	External:	1.207
Chord:	16.524	Course:	N 24° 32' 30.3544" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	15+400.908	10023710.955	752449.106
SPI:		10023719.681	752450.419
ET:	15+426.908	10023736.487	752445.514

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	17.507
Radius:	30.000	S Tan:	8.825
Theta:	24° 49' 41.4160"	P:	0.933
X:	25.516	K:	12.919
Y:	3.705	A:	27.928
Chord:	25.784	Course:	N 08° 00' 33.6041" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+426.908	10023736.487	752445.514
Fin:	15+438.896	10023747.995	752442.154

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.989	Course:	N 16° 16' 19.8311" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+438.896	10023747.995	752442.154
SPI:		10023765.988	752436.902
EC:	15+466.896	10023773.935	752431.876

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.744
Radius:	50.000	S Tan:	9.404
Theta:	16° 02' 34.1458"	P:	0.652
X:	27.781	K:	13.963
Y:	2.599	A:	37.417
Chord:	27.903	Course:	N 21° 36' 58.4115" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	15+466.896	10023773.935	752431.876
RP:		10023747.207	752389.619
CE:	15+479.727	10023783.785	752423.708

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 42' 09.8577"	Type:	LEFT
Radius:	50.000		
Length:	12.831	Tangent:	6.451
Mid-Ord:	0.411	External:	0.414
Chord:	12.795	Course:	N 39° 39' 58.9058" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	15+479.727	10023783.785	752423.708
SPI:		10023790.196	752416.829
ET:	15+507.727	10023798.688	752400.119

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	28.000	L Tan:	18.744
Radius:	50.000	S Tan:	9.404
Theta:	16° 02' 34.1458"	P:	0.652
X:	27.781	K:	13.963
Y:	2.599	A:	37.417
Chord:	27.903	Course:	N 57° 42' 59.4001" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+507.727	10023798.688	752400.119
Fin:	15+514.591	10023801.798	752393.999

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.864	Course:	N 63° 03' 37.9804" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+514.591	10023801.798	752393.999
SPI:		10023809.436	752378.970
EE:	15+539.591	10023816.280	752373.915

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.859
Radius:	26.915	S Tan:	8.508
Theta:	26° 36' 36.2812"	P:	0.960
X:	24.466	K:	12.411
Y:	3.811	A:	25.940
Chord:	24.761	Course:	N 54° 12' 24.5017" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+539.591	10023816.280	752373.915
SPI:		10023823.123	752368.860
ET:	15+564.591	10023839.734	752365.978

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.859
Radius:	26.915	S Tan:	8.508
Theta:	26° 36' 36.2812"	P:	0.960
X:	24.466	K:	12.411
Y:	3.811	A:	25.940
Chord:	24.761	Course:	N 18° 41' 38.8968" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+564.591	10023839.734	752365.978
Fin:	15+566.643	10023841.757	752365.628

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.052	Course:	N 09° 50' 25.4180" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+566.643	10023841.757	752365.628
SPI:		10023854.905	752363.347
EC:	15+586.643	10023861.574	752363.035

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.344
Radius:	80.000	S Tan:	6.677
Theta:	07° 09' 43.1008"	P:	0.208
X:	19.969	K:	9.995
Y:	0.832	A:	40.000
Chord:	19.986	Course:	N 07° 27' 12.1884" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	15+586.643	10023861.574	752363.035
RP:		10023865.312	752442.948
CE:	15+612.816	10023887.452	752366.072

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 44' 41.3580"	Type:	RIGHT
Radius:	80.000		

Length:	26.173	Tangent:	13.204
Mid-Ord:	1.068	External:	1.082
Chord:	26.056	Course:	N 06° 41' 38.3617" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	15+612.816	10023887.452	752366.072
SPI:		10023893.868	752367.920
ET:	15+632.816	10023906.131	752373.183

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.344
Radius:	80.000	S Tan:	6.677
Theta:	07° 09' 43.1008"	P:	0.208
X:	19.969	K:	9.995
Y:	0.832	A:	40.000
Chord:	19.986	Course:	N 20° 50' 28.9118" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+632.816	10023906.131	752373.183
Fin:	15+633.349	10023906.620	752373.393

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.533	Course:	N 23° 13' 42.1414" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+633.349	10023906.620	752373.393
SPI:		10023922.023	752380.004
EE:	15+658.349	10023930.419	752380.649

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.762
Radius:	38.031	S Tan:	8.420
Theta:	18° 49' 54.4909"	P:	0.682
X:	24.731	K:	12.455
Y:	2.718	A:	30.835
Chord:	24.880	Course:	N 16° 57' 24.6988" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+658.349	10023930.419	752380.649
SPI:		10023938.814	752381.295
ET:	15+683.349	10023955.047	752377.116

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.762
Radius:	38.031	S Tan:	8.420
Theta:	18° 49' 54.4909"	P:	0.682
X:	24.731	K:	12.455
Y:	2.718	A:	30.835
Chord:	24.880	Course:	N 08° 09' 49.3975" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+683.349	10023955.047	752377.116
Fin:	15+727.619	10023997.919	752366.081

Tangent Data

Parameter	Value	Parameter	Value
Length:	44.270	Course:	N 14° 26' 06.8403" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	15+727.619	10023997.919	752366.081
RP:		10023975.484	752278.922
PT:	15+759.154	10024026.475	752353.083

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	20° 04' 33.5886"	Type:	LEFT
Radius:	90.000		
Length:	31.535	Tangent:	15.931
Mid-Ord:	1.378	External:	1.399
Chord:	31.374	Course:	N 24° 28' 23.6346" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+759.154	10024026.475	752353.083
Fin:	15+784.175	10024047.092	752338.907

Tangent Data

Parameter	Value	Parameter	Value
Length:	25.021	Course:	N 34° 30' 40.4289" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	15+784.175	10024047.092	752338.907
RP:		10023962.107	752215.305
PT:	15+809.446	10024066.614	752322.907

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 39' 09.8086"	Type:	LEFT
Radius:	150.000		
Length:	25.271	Tangent:	12.665
Mid-Ord:	0.532	External:	0.534
Chord:	25.241	Course:	N 39° 20' 15.3332" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+809.446	10024066.614	752322.907
Fin:	15+833.916	10024084.168	752305.859

Tangent Data

Parameter	Value	Parameter	Value
Length:	24.470	Course:	N 44° 09' 50.2375" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	15+833.916	10024084.168	752305.859
RP:		10024153.839	752377.594
PT:	15+872.684	10024116.457	752284.844

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	22° 12' 45.3385"	Type:	RIGHT
Radius:	100.000		
Length:	38.768	Tangent:	19.631
Mid-Ord:	1.873	External:	1.909
Chord:	38.526	Course:	N 33° 03' 27.5682" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+872.684	10024116.457	752284.844
Fin:	15+920.654	10024160.949	752266.911

Tangent Data

Parameter	Value	Parameter	Value
Length:	47.970	Course:	N 21° 57' 04.8990" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+920.654	10024160.949	752266.911
SPI:		10024177.270	752260.334
EE:	15+946.654	10024182.707	752253.279

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	17.597
Radius:	24.478	S Tan:	8.906
Theta:	30° 25' 42.7665"	P:	1.139
X:	25.276	K:	12.879
Y:	4.511	A:	25.228
Chord:	25.676	Course:	N 32° 04' 11.3704" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	15+946.654	10024182.707	752253.279
SPI:		10024188.143	752246.224
ET:	15+972.654	10024190.346	752228.766

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	17.597
Radius:	24.478	S Tan:	8.906
Theta:	30° 25' 42.7665"	P:	1.139
X:	25.276	K:	12.879
Y:	4.511	A:	25.228
Chord:	25.676	Course:	N 72° 41' 23.9606" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	15+972.654	10024190.346	752228.766
Fin:	15+975.234	10024190.669	752226.207

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.580	Course:	N 82° 48' 30.4320" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	15+975.234	10024190.669	752226.207
SPI:		10024192.875	752208.724
EE:	16+001.234	10024198.490	752201.782

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	17.621
Radius:	23.444	S Tan:	8.929
Theta:	31° 46' 16.3683"	P:	1.188
X:	25.212	K:	12.868
Y:	4.701	A:	24.689
Chord:	25.646	Course:	N 72° 14' 44.9628" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	16+001.234	10024198.490	752201.782
SPI:		10024204.104	752194.839
ET:	16+027.234	10024220.738	752189.025

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.000	L Tan:	17.621
Radius:	23.444	S Tan:	8.929
Theta:	31° 46' 16.3683"	P:	1.188
X:	25.212	K:	12.868
Y:	4.701	A:	24.689
Chord:	25.646	Course:	N 29° 49' 43.1646" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+027.234	10024220.738	752189.025
Fin:	16+033.845	10024226.979	752186.844

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.611	Course:	N 19° 15' 57.6954" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	16+033.845	10024226.979	752186.844
SPI:		10024239.631	752182.421
EE:	16+053.845	10024244.991	752178.352

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.402
Radius:	31.930	S Tan:	6.730
Theta:	17° 56' 38.8680"	P:	0.520
X:	19.805	K:	9.967
Y:	2.073	A:	25.271
Chord:	19.913	Course:	N 25° 14' 32.7290" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	16+053.845	10024244.991	752178.352
SPI:		10024250.350	752174.282
ET:	16+073.845	10024258.008	752163.283

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.402
Radius:	31.930	S Tan:	6.730
Theta:	17° 56' 38.8680"	P:	0.520
X:	19.805	K:	9.967
Y:	2.073	A:	25.271
Chord:	19.913	Course:	N 49° 10' 40.3977" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+073.845	10024258.008	752163.283
Fin:	16+080.587	10024261.860	752157.750

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.742	Course:	N 55° 09' 15.4313" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	16+080.587	10024261.860	752157.750
SPI:		10024269.525	752146.741
EE:	16+100.587	10024274.991	752142.798

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.414
Radius:	29.606	S Tan:	6.740
Theta:	19° 21' 09.2450"	P:	0.561
X:	19.773	K:	9.962
Y:	2.233	A:	24.334
Chord:	19.899	Course:	N 48° 42' 34.8408" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	16+100.587	10024274.991	752142.798
SPI:		10024280.457	752138.856
ET:	16+120.587	10024293.322	752135.057

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.414
Radius:	29.606	S Tan:	6.740
Theta:	19° 21' 09.2450"	P:	0.561
X:	19.773	K:	9.962
Y:	2.233	A:	24.334
Chord:	19.899	Course:	N 22° 53' 37.5318" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+120.587	10024293.322	752135.057
Fin:	16+121.094	10024293.809	752134.914

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.507	Course:	N 16° 26' 56.9413" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	16+121.094	10024293.809	752134.914
SPI:		10024313.076	752129.225
EE:	16+151.094	10024321.518	752123.713

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.090
Radius:	51.483	S Tan:	10.082
Theta:	16° 41' 36.6479"	P:	0.726
X:	29.746	K:	14.958
Y:	2.896	A:	39.300
Chord:	29.887	Course:	N 22° 00' 34.7317" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	16+151.094	10024321.518	752123.713
SPI:		10024329.959	752118.201
ET:	16+181.094	10024342.916	752102.849

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value

Length:	30.000	L Tan:	20.090
Radius:	51.483	S Tan:	10.082
Theta:	16° 41' 36.6479"	P:	0.726
X:	29.746	K:	14.958
Y:	2.896	A:	39.300
Chord:	29.887	Course:	N 44° 16' 32.4466" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+181.094	10024342.916	752102.849
Fin:	16+220.997	10024368.653	752072.354

Tangent Data

Parameter	Value	Parameter	Value
Length:	39.903	Course:	N 49° 50' 10.2371" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	16+220.997	10024368.653	752072.354
RP:		10024284.591	752001.407
PT:	16+259.272	10024387.806	752039.440

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	19° 56' 09.0201"	Type:	LEFT
Radius:	110.000		
Length:	38.274	Tangent:	19.332
Mid-Ord:	1.660	External:	1.686
Chord:	38.081	Course:	N 59° 48' 14.7471" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+259.272	10024387.806	752039.440
Fin:	16+306.746	10024404.221	751994.894

Tangent Data

Parameter	Value	Parameter	Value
Length:	47.475	Course:	N 69° 46' 19.2571" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	16+306.746	10024404.221	751994.894
SPI:		10024410.003	751979.204
EE:	16+331.746	10024414.751	751972.295

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.721
Radius:	50.174	S Tan:	8.383
Theta:	14° 16' 27.4823"	P:	0.518
X:	24.845	K:	12.474
Y:	2.067	A:	35.417
Chord:	24.931	Course:	N 65° 00' 59.1103" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	16+331.746	10024414.751	751972.295
SPI:		10024419.499	751965.387
ET:	16+356.746	10024432.076	751954.368

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.721

Radius:	50.174	S Tan:	8.383
Theta:	14° 16' 27.4823"	P:	0.518
X:	24.845	K:	12.474
Y:	2.067	A:	35.417
Chord:	24.931	Course:	N 45° 58' 44.4393" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+356.746	10024432.076	751954.368
Fin:	16+360.477	10024434.882	751951.909

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.731	Course:	N 41° 13' 24.2925" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	16+360.477	10024434.882	751951.909
SPI:		10024444.926	751943.110
EC:	16+380.477	10024450.614	751939.600

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.353
Radius:	60.000	S Tan:	6.684
Theta:	09° 32' 57.4677"	P:	0.278
X:	19.945	K:	9.991
Y:	1.109	A:	34.641
Chord:	19.975	Course:	N 38° 02' 27.8330" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	16+380.477	10024450.614	751939.600
RP:		10024482.120	751990.663
CE:	16+403.164	10024471.690	751931.576

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	21° 39' 49.2796"	Type:	RIGHT
Radius:	60.000		
Length:	22.686	Tangent:	11.480
Mid-Ord:	1.069	External:	1.088
Chord:	22.551	Course:	N 20° 50' 32.1849" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	16+403.164	10024471.690	751931.576
SPI:		10024478.273	751930.414
ET:	16+423.164	10024491.625	751930.307

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.353
Radius:	60.000	S Tan:	6.684
Theta:	09° 32' 57.4677"	P:	0.278
X:	19.945	K:	9.991
Y:	1.109	A:	34.641
Chord:	19.975	Course:	N 03° 38' 36.5368" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+423.164	10024491.625	751930.307

Fin:	16+424.784	10024493.245	751930.294

Tangent Data

Parameter	Value	Parameter	Value
Length:	1.620	Course:	N 00° 27' 40.0773" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	16+424.784	10024493.245	751930.294
SPI:		10024506.606	751930.186
EC:	16+444.784	10024513.154	751928.804

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.361
Radius:	50.000	S Tan:	6.692
Theta:	11° 27' 32.9612"	P:	0.333
X:	19.920	K:	9.987
Y:	1.330	A:	31.623
Chord:	19.964	Course:	N 04° 16' 46.4035" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	16+444.784	10024513.154	751928.804
RP:		10024502.827	751879.882
CE:	16+468.162	10024534.095	751918.898

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	26° 47' 22.2247"	Type:	LEFT
Radius:	50.000		
Length:	23.378	Tangent:	11.907
Mid-Ord:	1.360	External:	1.398
Chord:	23.166	Course:	N 25° 18' 54.1509" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	16+468.162	10024534.095	751918.898
SPI:		10024539.318	751914.713
ET:	16+488.162	10024547.876	751904.452

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.361
Radius:	50.000	S Tan:	6.692
Theta:	11° 27' 32.9612"	P:	0.333
X:	19.920	K:	9.987
Y:	1.330	A:	31.623
Chord:	19.964	Course:	N 46° 21' 01.8984" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+488.162	10024547.876	751904.452
Fin:	16+490.623	10024549.452	751902.563

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.460	Course:	N 50° 10' 08.2246" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	16+490.623	10024549.452	751902.563
SPI:		10024557.995	751892.320

EC:	16+510.623	10024562.680	751887.570

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.338
Radius:	120.000	S Tan:	6.671
Theta:	04° 46' 28.7338"	P:	0.139
X:	19.986	K:	9.998
Y:	0.555	A:	48.990
Chord:	19.994	Course:	N 48° 34' 38.9835" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	16+510.623	10024562.680	751887.570
RP:		10024648.115	751971.837
CE:	16+533.376	10024580.094	751872.978

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 51' 50.7354"	Type:	RIGHT
Radius:	120.000		
Length:	22.754	Tangent:	11.411
Mid-Ord:	0.539	External:	0.541
Chord:	22.720	Course:	N 39° 57' 44.1230" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	16+533.376	10024580.094	751872.978
SPI:		10024585.589	751869.197
ET:	16+553.376	10024597.169	751862.577

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.338
Radius:	120.000	S Tan:	6.671
Theta:	04° 46' 28.7338"	P:	0.139
X:	19.986	K:	9.998
Y:	0.555	A:	48.990
Chord:	19.994	Course:	N 31° 20' 49.2625" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+553.376	10024597.169	751862.577
Fin:	16+554.252	10024597.929	751862.142

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.876	Course:	N 29° 45' 20.0216" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	16+554.252	10024597.929	751862.142
SPI:		10024612.403	751853.868
EC:	16+579.252	10024619.297	751849.177

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.672
Radius:	160.000	S Tan:	8.338
Theta:	04° 28' 34.4380"	P:	0.163
X:	24.985	K:	12.497
Y:	0.651	A:	63.246
Chord:	24.993	Course:	N 31° 14' 51.2233" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	16+579.252	10024619.297	751849.177
RP:		10024529.290	751716.894
CE:	16+598.798	10024634.746	751837.224

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	06° 59' 57.2742"	Type:	LEFT
Radius:	160.000		
Length:	19.546	Tangent:	9.785
Mid-Ord:	0.298	External:	0.299
Chord:	19.533	Course:	N 37° 43' 53.0967" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	16+598.798	10024634.746	751837.224
SPI:		10024641.016	751831.728
ET:	16+623.798	10024652.659	751819.794

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.672
Radius:	160.000	S Tan:	8.338
Theta:	04° 28' 34.4380"	P:	0.163
X:	24.985	K:	12.497
Y:	0.651	A:	63.246
Chord:	24.993	Course:	N 44° 12' 54.9700" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+623.798	10024652.659	751819.794
Fin:	16+665.842	10024682.019	751789.700

Tangent Data

Parameter	Value	Parameter	Value
Length:	42.044	Course:	N 45° 42' 26.1718" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	16+665.842	10024682.019	751789.700
RP:		10024574.652	751684.951
PT:	16+704.444	10024705.144	751758.924

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 44' 41.7365"	Type:	LEFT
Radius:	150.000		
Length:	38.602	Tangent:	19.408
Mid-Ord:	1.240	External:	1.250
Chord:	38.496	Course:	N 53° 04' 47.0400" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+704.444	10024705.144	751758.924
Fin:	16+823.947	10024764.077	751654.963

Tangent Data

Parameter	Value	Parameter	Value
Length:	119.503	Course:	N 60° 27' 07.9083" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	16+823.947	10024764.077	751654.963
RP:		10025068.557	751827.565
PT:	16+842.409	10024773.601	751639.149

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 01' 20.3954"	Type:	RIGHT
Radius:	350.000		
Length:	18.462	Tangent:	9.233
Mid-Ord:	0.122	External:	0.122
Chord:	18.460	Course:	N 58° 56' 27.7106" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+842.409	10024773.601	751639.149
Fin:	16+947.489	10024830.169	751550.595

Tangent Data

Parameter	Value	Parameter	Value
Length:	105.080	Course:	N 57° 25' 47.5129" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	16+947.489	10024830.169	751550.595
RP:		10024998.715	751658.261
PT:	16+984.134	10024852.607	751521.688

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 29' 52.4817"	Type:	RIGHT
Radius:	200.000		
Length:	36.645	Tangent:	18.374
Mid-Ord:	0.839	External:	0.842
Chord:	36.593	Course:	N 52° 10' 51.2720" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	16+984.134	10024852.607	751521.688
Fin:	17+055.720	10024901.490	751469.391

Tangent Data

Parameter	Value	Parameter	Value
Length:	71.586	Course:	N 46° 55' 55.0312" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+055.720	10024901.490	751469.391
RP:		10024989.155	751551.335
PT:	17+141.910	10024977.072	751431.945

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	41° 09' 09.2820"	Type:	RIGHT
Radius:	120.000		
Length:	86.190	Tangent:	45.048
Mid-Ord:	7.655	External:	8.177
Chord:	84.349	Course:	N 26° 21' 20.3902" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+141.910	10024977.072	751431.945
Fin:	17+196.474	10025031.359	751426.450

Tangent Data

Parameter	Value	Parameter	Value
Length:	54.564	Course:	N 05° 46' 45.7492" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+196.474	10025031.359	751426.450
RP:		10025081.708	751923.909
PT:	17+230.451	10025065.253	751424.180

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 53' 36.2170"	Type:	RIGHT
Radius:	500.000		
Length:	33.976	Tangent:	16.995
Mid-Ord:	0.289	External:	0.289
Chord:	33.970	Course:	N 03° 49' 57.6407" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+230.451	10025065.253	751424.180
Fin:	17+259.213	10025093.999	751423.233

Tangent Data

Parameter	Value	Parameter	Value
Length:	28.762	Course:	N 01° 53' 09.5322" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+259.213	10025093.999	751423.233
RP:		10025090.708	751323.287
PT:	17+288.799	10025122.997	751417.931

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	16° 57' 06.4114"	Type:	LEFT
Radius:	100.000		
Length:	29.586	Tangent:	14.902
Mid-Ord:	1.092	External:	1.104
Chord:	29.479	Course:	N 10° 21' 42.7380" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+288.799	10025122.997	751417.931
Fin:	17+344.058	10025175.296	751400.089

Tangent Data

Parameter	Value	Parameter	Value
Length:	55.259	Course:	N 18° 50' 15.9437" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+344.058	10025175.296	751400.089
RP:		10025498.186	752346.525
PT:	17+368.125	10025198.166	751392.592

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 22' 44.2885"	Type:	RIGHT
Radius:	1000.000		
Length:	24.068	Tangent:	12.034
Mid-Ord:	0.072	External:	0.072
Chord:	24.067	Course:	N 18° 08' 53.7994" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+368.125	10025198.166	751392.592
Fin:	17+456.539	10025282.506	751366.067

Tangent Data

Parameter	Value	Parameter	Value
Length:	88.414	Course:	N 17° 27' 31.6552" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+456.539	10025282.506	751366.067
RP:		10025237.503	751222.977
PT:	17+498.105	10025319.935	751348.296

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 52' 37.0227"	Type:	LEFT
Radius:	150.000		
Length:	41.566	Tangent:	20.917
Mid-Ord:	1.437	External:	1.451
Chord:	41.433	Course:	N 25° 23' 50.1665" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+498.105	10025319.935	751348.296
Fin:	17+596.078	10025401.788	751294.455

Tangent Data

Parameter	Value	Parameter	Value
Length:	97.974	Course:	N 33° 20' 08.6779" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+596.078	10025401.788	751294.455
RP:		10025313.861	751160.781
PT:	17+675.411	10025454.797	751236.526

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	28° 24' 31.5865"	Type:	LEFT
Radius:	160.000		
Length:	79.332	Tangent:	40.499
Mid-Ord:	4.892	External:	5.046
Chord:	78.522	Course:	N 47° 32' 24.4711" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+675.411	10025454.797	751236.526
Fin:	17+722.673	10025477.171	751194.895

Tangent Data

Parameter	Value	Parameter	Value
Length:	47.262	Course:	N 61° 44' 40.2643" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+722.673	10025477.171	751194.895
RP:		10025600.489	751261.172
PT:	17+761.627	10025500.118	751163.573

Circular Curve Data

Parameter	Value	Parameter	Value

Delta:	15° 56' 31.7816"	Type:	RIGHT
Radius:	140.000		
Length:	38.954	Tangent:	19.604
Mid-Ord:	1.353	External:	1.366
Chord:	38.829	Course:	N 53° 46' 24.3736" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+761.627	10025500.118	751163.573
Fin:	17+794.045	10025522.717	751140.331

Tangent Data

Parameter	Value	Parameter	Value
Length:	32.418	Course:	N 45° 48' 08.4828" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+794.045	10025522.717	751140.331
RP:		10025422.346	751042.732
PT:	17+827.931	10025543.185	751113.429

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	13° 52' 04.6842"	Type:	LEFT
Radius:	140.000		
Length:	33.886	Tangent:	17.026
Mid-Ord:	1.024	External:	1.032
Chord:	33.803	Course:	N 52° 44' 10.8248" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+827.931	10025543.185	751113.429
Fin:	17+879.097	10025569.023	751069.265

Tangent Data

Parameter	Value	Parameter	Value
Length:	51.167	Course:	N 59° 40' 13.1669" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	17+879.097	10025569.023	751069.265
RP:		10025681.230	751134.911
PT:	17+920.984	10025595.585	751037.111

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 27' 40.0299"	Type:	RIGHT
Radius:	130.000		
Length:	41.887	Tangent:	21.127
Mid-Ord:	1.683	External:	1.705
Chord:	41.706	Course:	N 50° 26' 23.1520" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	17+920.984	10025595.585	751037.111
Fin:	17+978.365	10025638.753	750999.308

Tangent Data

Parameter	Value	Parameter	Value
Length:	57.381	Course:	N 41° 12' 33.1370" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud

PC:	17+978.365	10025638.753	750999.308
RP:		10025553.107	750901.508
PT:	18+018.286	10025664.309	750968.844

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	17° 35' 40.8225"	Type:	LEFT
Radius:	130.000		
Length:	39.921	Tangent:	20.119
Mid-Ord:	1.529	External:	1.548
Chord:	39.764	Course:	N 50° 00' 23.5483" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+018.286	10025664.309	750968.844
Fin:	18+076.577	10025694.502	750918.982

Tangent Data

Parameter	Value	Parameter	Value
Length:	58.291	Course:	N 58° 48' 13.9596" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	18+076.577	10025694.502	750918.982
RP:		10025583.300	750851.646
PT:	18+110.845	10025708.206	750887.681

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 06' 12.3463"	Type:	LEFT
Radius:	130.000		
Length:	34.269	Tangent:	17.234
Mid-Ord:	1.128	External:	1.137
Chord:	34.169	Course:	N 66° 21' 20.1327" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+110.845	10025708.206	750887.681
Fin:	18+173.252	10025725.505	750827.720

Tangent Data

Parameter	Value	Parameter	Value
Length:	62.407	Course:	N 73° 54' 26.3058" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	18+173.252	10025725.505	750827.720
RP:		10025984.925	750902.562
PT:	18+219.864	10025742.217	750784.269

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 53' 28.8377"	Type:	RIGHT
Radius:	270.000		
Length:	46.612	Tangent:	23.364
Mid-Ord:	1.005	External:	1.009
Chord:	46.554	Course:	N 68° 57' 41.8870" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+219.864	10025742.217	750784.269
Fin:	18+267.151	10025762.934	750741.762

Tangent Data

Parameter	Value	Parameter	Value
Length:	47.286	Course:	N 64° 00' 57.4681" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	18+267.151	10025762.934	750741.762
RP:		10025583.151	750654.138
PT:	18+306.361	10025776.559	750705.062

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 13' 58.7065"	Type:	LEFT
Radius:	200.000		
Length:	39.210	Tangent:	19.668
Mid-Ord:	0.960	External:	0.965
Chord:	39.148	Course:	N 69° 37' 56.8213" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+306.361	10025776.559	750705.062
Fin:	18+380.827	10025795.520	750633.051

Tangent Data

Parameter	Value	Parameter	Value
Length:	74.465	Course:	N 75° 14' 56.1746" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	18+380.827	10025795.520	750633.051
SPI:		10025800.791	750613.031
EE:	18+410.827	10025810.026	750607.745

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.702
Radius:	18.905	S Tan:	10.641
Theta:	45° 27' 38.3098"	P:	1.940
X:	28.166	K:	14.691
Y:	7.585	A:	23.815
Chord:	29.169	Course:	N 60° 10' 38.6426" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	18+410.827	10025810.026	750607.745
SPI:		10025819.261	750602.458
ET:	18+440.827	10025839.193	750608.051

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.702
Radius:	18.905	S Tan:	10.641
Theta:	45° 27' 38.3098"	P:	1.940
X:	28.166	K:	14.691
Y:	7.585	A:	23.815
Chord:	29.169	Course:	N 00° 36' 02.9130" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+440.827	10025839.193	750608.051
Fin:	18+442.758	10025841.053	750608.573

Tangent Data

Parameter	Value	Parameter	Value

Length:	1.931	Course:	N 15° 40' 20.4450" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	18+442.758	10025841.053	750608.573
SPI:		10025861.023	750614.175
EE:	18+472.758	10025865.986	750623.629

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.741
Radius:	18.431	S Tan:	10.677
Theta:	46° 37' 45.2209"	P:	1.987
X:	28.074	K:	14.675
Y:	7.761	A:	23.515
Chord:	29.126	Course:	N 31° 07' 36.6660" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	18+472.758	10025865.986	750623.629
SPI:		10025870.949	750633.082
ET:	18+502.758	10025864.220	750652.701

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.741
Radius:	18.431	S Tan:	10.677
Theta:	46° 37' 45.2209"	P:	1.987
X:	28.074	K:	14.675
Y:	7.761	A:	23.515
Chord:	29.126	Course:	S 86° 31' 25.3343" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+502.758	10025864.220	750652.701
Fin:	18+575.710	10025840.552	750721.707

Tangent Data

Parameter	Value	Parameter	Value
Length:	72.952	Course:	S 71° 04' 09.1133" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	18+575.710	10025840.552	750721.707
RP:		10025982.439	750770.371
PT:	18+595.392	10025835.405	750740.689

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 31' 04.0504"	Type:	LEFT
Radius:	150.000		
Length:	19.682	Tangent:	9.855
Mid-Ord:	0.323	External:	0.323
Chord:	19.667	Course:	S 74° 49' 41.1385" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+595.392	10025835.405	750740.689
Fin:	18+653.541	10025823.898	750797.689

Tangent Data

Parameter	Value	Parameter	Value
Length:	58.150	Course:	S 78° 35' 13.1637" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	18+653.541	10025823.898	750797.689
RP:		10026314.011	750896.629
PT:	18+676.285	10025819.906	750820.078

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 36' 22.3196"	Type:	LEFT
Radius:	500.000		
Length:	22.743	Tangent:	11.374
Mid-Ord:	0.129	External:	0.129
Chord:	22.741	Course:	S 79° 53' 24.3235" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+676.285	10025819.906	750820.078
Fin:	18+761.123	10025806.917	750903.915

Tangent Data

Parameter	Value	Parameter	Value
Length:	84.838	Course:	S 81° 11' 35.4833" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	18+761.123	10025806.917	750903.915
SPI:		10025804.873	750917.108
EE:	18+781.123	10025802.835	750923.472

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.350
Radius:	63.997	S Tan:	6.682
Theta:	08° 57' 10.2695"	P:	0.260
X:	19.951	K:	9.992
Y:	1.040	A:	35.776
Chord:	19.978	Course:	S 78° 12' 34.2821" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	18+781.123	10025802.835	750923.472
SPI:		10025800.797	750929.836
ET:	18+801.123	10025794.796	750941.762

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.350
Radius:	63.997	S Tan:	6.682
Theta:	08° 57' 10.2695"	P:	0.260
X:	19.951	K:	9.992
Y:	1.040	A:	35.776
Chord:	19.978	Course:	S 66° 16' 16.1455" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+801.123	10025794.796	750941.762
Fin:	18+816.693	10025787.796	750955.670

Tangent Data

Parameter	Value	Parameter	Value
Length:	15.570	Course:	S 63° 17' 14.9443" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	18+816.693	10025787.796	750955.670
SPI:		10025778.667	750973.812
EC:	18+846.693	10025779.381	750984.069

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.309
Radius:	28.000	S Tan:	10.282
Theta:	30° 41' 39.0033"	P:	1.326
X:	29.150	K:	14.858
Y:	5.248	A:	28.983
Chord:	29.619	Course:	S 73° 29' 37.8314" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	18+846.693	10025779.381	750984.069
RP:		10025807.314	750982.124
CE:	18+898.266	10025816.666	751008.516

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	105° 31' 52.9861"	Type:	LEFT
Radius:	28.000		
Length:	51.572	Tangent:	36.843
Mid-Ord:	11.058	External:	18.275
Chord:	44.585	Course:	N 33° 15' 09.5593" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	18+898.266	10025816.666	751008.516
SPI:		10025826.357	751005.082
ET:	18+928.266	10025839.355	750989.477

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.309
Radius:	28.000	S Tan:	10.282
Theta:	30° 41' 39.0033"	P:	1.326
X:	29.150	K:	14.858
Y:	5.248	A:	28.983
Chord:	29.619	Course:	N 40° 00' 03.0499" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+928.266	10025839.355	750989.477
Fin:	18+932.592	10025842.125	750986.153

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.327	Course:	N 50° 12' 25.9371" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	18+932.592	10025842.125	750986.153
SPI:		10025854.943	750970.763
EE:	18+962.592	10025862.546	750964.227

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.278	S Tan:	10.026

Theta:	09° 31' 11.6267"	P:	0.415
X:	29.917	K:	14.986
Y:	1.658	A:	52.042
Chord:	29.963	Course:	N 47° 02' 04.7332" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
EE:	18+962.592	10025862.546	750964.227
SPI:		10025870.149	750957.690
ET:	18+992.592	10025887.287	750947.324

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.029
Radius:	90.278	S Tan:	10.026
Theta:	09° 31' 11.6267"	P:	0.415
X:	29.917	K:	14.986
Y:	1.658	A:	52.042
Chord:	29.963	Course:	N 34° 20' 23.8875" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	18+992.592	10025887.287	750947.324
Fin:	19+001.009	10025894.489	750942.968

Tangent Data

Parameter	Value	Parameter	Value
Length:	8.416	Course:	N 31° 10' 02.6836" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
PC:	19+001.009	10025894.489	750942.968
RP:		10025827.208	750831.733
PT:	19+045.740	10025928.069	750913.752

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	19° 42' 52.6248"	Type:	LEFT
Radius:	130.000		
Length:	44.731	Tangent:	22.589
Mid-Ord:	1.919	External:	1.948
Chord:	44.511	Course:	N 41° 01' 28.9960" W

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	19+045.740	10025928.069	750913.752
Fin:	19+072.344	10025944.854	750893.111

Tangent Data

Parameter	Value	Parameter	Value
Length:	26.605	Course:	N 50° 52' 55.3084" W

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	19+072.344	10025944.854	750893.111
SPI:		10025957.719	750877.291
EC:	19+102.344	10025967.648	750874.349

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.391
Radius:	25.000	S Tan:	10.356
Theta:	34° 22' 38.8838"	P:	1.481

X:	28.938	K:	14.822
Y:	5.847	A:	27.386
Chord:	29.523	Course:	N 39° 27' 29.1766" W

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	19+102.344	10025967.648	750874.349
RP:		10025974.750	750898.319
CE:	19+141.520	10025998.694	750891.127

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	89° 47' 07.1134"	Type:	RIGHT
Radius:	25.000		
Length:	39.176	Tangent:	24.906
Mid-Ord:	7.289	External:	10.289
Chord:	35.289	Course:	N 28° 23' 17.1320" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	19+141.520	10025998.694	750891.127
SPI:		10026001.673	750901.045
ET:	19+171.520	10025995.488	750920.475

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.391
Radius:	25.000	S Tan:	10.356
Theta:	34° 22' 38.8838"	P:	1.481
X:	28.938	K:	14.822
Y:	5.847	A:	27.386
Chord:	29.523	Course:	S 83° 45' 56.5593" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	19+171.520	10025995.488	750920.475
Fin:	19+191.665	10025989.377	750939.670

Tangent Data

Parameter	Value	Parameter	Value
Length:	20.144	Course:	S 72° 20' 30.4275" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
TE:	19+191.665	10025989.377	750939.670
SPI:		10025985.301	750952.475
EC:	19+211.665	10025985.817	750959.217

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.438
Radius:	26.000	S Tan:	6.762
Theta:	22° 02' 12.6178"	P:	0.638
X:	19.706	K:	9.951
Y:	2.537	A:	22.804
Chord:	19.869	Course:	S 79° 40' 41.3979" E

Curve Point Data

DeECription	Abscisa	Latitud	Longitud
EC:	19+211.665	10025985.817	750959.217
RP:		10026011.741	750957.232
CE:	19+233.924	10025996.251	750978.114

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	49° 03' 12.5210"	Type:	LEFT
Radius:	26.000		
Length:	22.260	Tangent:	11.864
Mid-Ord:	2.346	External:	2.579
Chord:	21.586	Course:	N 61° 05' 40.6942" E

Spiral Point Data

DeECription	Abscisa	Latitud	Longitud
CE:	19+233.924	10025996.251	750978.114
SPI:		10026001.682	750982.143
ET:	19+253.924	10026014.690	750985.515

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	20.000	L Tan:	13.438
Radius:	26.000	S Tan:	6.762
Theta:	22° 02' 12.6178"	P:	0.638
X:	19.706	K:	9.951
Y:	2.537	A:	22.804
Chord:	19.869	Course:	N 21° 52' 02.7864" E

Tangent Data

DeECription	PT Abscisa	Latitud	Longitud
Inicio:	19+253.924	10026014.690	750985.515
Fin:	19+295.047	10026054.497	750995.833

Tangent Data

Parameter	Value	Parameter	Value
Length:	41.123	Course:	N 14° 31' 51.8159" E