



**South Main Street Extension**  
**Design Package – 15% Design Report**

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**Prepared by:**



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## **Introduction**

This design report is specific for the 15% Design Package submittal and is intended to inform reviewers of the current status of the design plans, exclusions in the submittal, and any outstanding issues.

## **Scope**

The primary scope of this design package includes the 15% level guideway horizontal and vertical track alignment, special trackwork, embedded track slab, and preliminary stop locations. Additional civil elements – such as street pavement, median, and sidewalk demolition, street paving, curb and sidewalk improvements, and striping improvements – are shown in relation to the 15% guideway design and will require further definition in the remaining preliminary engineering phase prior to completion of the 30% submittal. This package also contains a preliminary diagram of the streetcar systems elements, as well as the preliminary structural sections for placement of the guideway on two existing structures: Main Street over the Kansas City Terminal Railway, and Brookside Boulevard over Brush Creek.

## **Status**

The Design plans are currently at the 15% design level and include plan layout sheets, as well as some details for the following disciplines:

### ***Survey Control***

Not included in this package.

### ***Demolition Plan***

The demolition plan sheets are generally based on the proposed guideway, median, stops and sidewalk modifications for the current design level. Roadway demolition is based on the limits of the proposed track slab with an assumed 9” additional removal width beyond the track slab for cross-slope tie-in to the existing pavement. Further vertical design of the guideway will be required to confirm this dimension, with additional removals likely in some sections of the corridor due to the limitation of the guideway vertical alignment in relation to the existing roadway surface. Where the proposed track slab is in close proximity to other project demolition elements (such as an adjacent guideway, median or stop location), all pavement will be removed between the elements to avoid leaving isolated sections of existing roadway surface.

### ***Temporary Traffic Control***

Not included in this package.

### ***Erosion Control Plan***

Not included in this package.

### ***Civil Plans***

The civil plans have been developed in conjunction with the 15% guideway design, proposed stop layouts and a field investigation of the proposed stop locations. No detailed design – such as horizontal or vertical alignments of proposed curb lines, tie-ins to proposed guideway or drainage improvements, detailed layouts of stops, sidewalk grading, or curb-cut layouts – has been completed to date. All of the civil elements shown on the plan view sheets are horizontal layouts based on the horizontal guideway design and the information collected during the preliminary stop location field investigation. This includes proposed curb lines for stop locations and intersection geometry modifications.

The typical roadway sections are based on a similar design level as the plan view sheets.

There are segments of semi-exclusive proposed guideway (exclusive streetcar lanes in otherwise mixed-traffic roadway sections) at three locations along the corridor:

- Southbound between Pershing Road and Memorial Drive
- Southbound between 45<sup>th</sup> Street and Cleaver Boulevard
- Both directions between Cleaver Boulevard and Volker Boulevard

In these semi-exclusive segments, it is desirable to provide separation measures to aid motorists in distinguishing the location of the exclusive streetcar lanes in relation to vehicular lanes and mixed vehicle/streetcar lanes within the roadway section. The final separation measures have yet to be determined, but could include the following:

- Raised embedded guideway (i.e. exclusive lanes 3-6" above adjacent lanes)
- Colored and/or textured concrete for embedded guideway
- Raised medians or curblines to protect the track
  - Raised "turtle shell" or other mountable features
- Vertical delineators
- Additional striping
- Combinations of the above.

Considerations such as capital cost, maintenance cost, snow removal, compatibility with KCATA buses, and vehicular safety will factor into the final design decision. For the 15% plans, raised curblines have been shown for discussion purposes.

Stop details, based on the Starter Line stop layouts, are included in the 15% submittal as reference when considering how the stop footprints, furnishings and grading will impact and tie in to the surrounding roadway and sidewalk. Stops details will be further developed for the 30% submittal.

Stops' horizontal offsets from the track alignment, lengths and widths are based on the Starter Line stop layouts, with the exception of three "signature" stop locations which have been designed to increase rider capacity or to serve both northbound and southbound riders on a center stop platform. The "signature" stops are as follows:

- Northbound at Union Station – lengthen to increase rider capacity
- Northbound and Southbound at Cleaver II Boulevard – center stop between the northbound and southbound double track alignments. Wider and longer to allow for simultaneous boarding to occur.
- 51<sup>st</sup> Street Stop – Southern Terminus – lengthen to increase capacity and to allow for boarding of two vehicles in series if required due to bunching or special events.

Curb-cuts at all four quadrants of intersections with proposed stops are shown as being demolished and replaced with ADA compliant two-direction curb ramps. At this time, no additional curb ramp or sidewalk improvements are shown along the corridor outside of proposed stop locations.

### ***Drainage***

Not included in this package.

### ***Permanent Traffic Control***

Permanent striping has been developed in conjunction with the 15% guideway design. The striping included in this package is based on offsets from the proposed guideway to allow for vehicle dynamic envelop (VDE) clearances of the existing CAF vehicle, and to otherwise maintain the general lane geometry developed during the conceptual phase of the project. Detailed traffic design will be required to progress the striping design for the project.

Proposed modifications to traffic signals requiring transit phasing, and indications of the presence of existing traffic signals, are included in the package as icons on the signing and striping plans for reference only. A preliminary traffic study is being completed in conjunction with the 15% guideway design to determine required modifications to existing traffic signal infrastructure.

### ***Traffic Signalization***

Not included in this package; see description of traffic signal modifications in Permanent Traffic Control section.

### ***Street Light Modifications***

Not included in this package.

### ***Guideway Plan and Profile and Details***

The guideway horizontal alignment has been designed to a 15% level, incorporating modifications from the September 2018 Advanced Conceptual Engineering (ACE) alignment that were developed in various design workshops and individual concept submittals reviewed by the KC Streetcar Project Management Team over the last four months. The horizontal alignment has been further refined utilizing the updated KC Streetcar Design Criteria (Rev 2 – 2/7/2019) to optimize curvature and maximum allowable vehicle speed.

Detailed vertical alignment design has not yet begun; track profiles are shown on the 15% submittal for reference and to confirm that the alignment meets the general design criteria for the CAF vehicle. Vertical design will continue to be developed in conjunction with the civil/grading and drainage plans for the 30% submission. The vertical alignment design for the guideway will seek to match the existing roadway grades as closely as possible within the allowable track geometry limits for vehicle speed and characteristics. Particular areas with restrictive vertical geometry include:

- Crest curve at south end of 45th Street Intersection
  - Currently designed with a K value of 16.4 (maximum value for combined horizontal and vertical curves), which matches the K value for the crest vertical curve at 5<sup>th</sup> and Delaware on the Starter Line.
- Vertical grade from 45<sup>th</sup> to Cleaver – need to minimize grades where practical to stay within vehicle capabilities.
- County Club Right-of-Way (optimizing vertical design to minimize extent/need for retaining walls)

Track details, where information was available, have been developed for this submission. These include preliminary track slab details, special trackwork elements, and transition rail details. Additional details will continue to be developed for the 30% submission.

### ***Systems Elements Plan***

A one-line schematic of the proposed six TPSS scenario included in the current Load Flow Report is included in the 15% submittal. The schematic shows the proposed traction power system components and relationships. The final TPSS locations are unknown at this time. The feeder locations are subject to change pending the completion of the Load Flow analysis.

### ***Specifications***

Not included in this package.

### ***Calculations***

Guideway horizontal alignment tabulations are included as an attachment to this report.

### **Exclusions from submittal**

The bulleted list below contains elements intended to be included in future submittals of this design package but are not included in this submittal:

- Survey Control
- Temporary Traffic Control Drawings
- Erosion Control Plans
- Landscaping and Irrigation Drawings
- Utility impacts and relocation plan
- Drainage Details
- Embedded Guideway Track drains
- Traffic Signalization Plans
- Stops Civil Grading Drawings
- Retaining Wall Drawings (Country Club Right-of-Way)
- OCS Layout Drawings and Details
- Street Lighting Drawings and Details
- TPSS Layout Drawings and Details
- Train Signal and Communications Drawings

### **Pending Decisions/Issues**

The following are known decisions or issues that are pending and could impact the design and concepts shown in these plans.

- Preferred separation measures for the exclusive streetcar lanes
- Separation measures between guideway and adjacent pedestrian/bicyclists/scooters/etc. at both the mobility lane along the west side of Main Street between Pershing and Memorial Drive; and the Trolley Track Trail south of Volker Blvd.
- Integrating bicycle/scooter parking or other infrastructure at stop locations
- Determining how the “flex space” will be utilized along the alignment
- Completion of the Traffic Operations Study and incorporating traffic signalization recommendations
- Determining the type and extent of Transit Signal Priority (TSP) that may be implemented on the corridor

- Completion of the utility survey and coordination with affected utilities to determine relocation plans
- Completion of the preliminary geotechnical field investigation and report to confirm pavement and embedded track details

### **Design Assumptions/Design Basis**

The following outlines the assumptions and design philosophy used in the development of this design package. This list contains only the design items included in this submittal.

#### ***Track/Civil Design***

The Track and Civil Design was developed per Kansas City Streetcar Design Criteria Manual – Rev 2 dated 2/7/2019.

Civil improvements at and near stop locations were based on the Stop Field Investigation Technical Memo dated 1/29/2019.

Guideway, track and special trackwork located on the existing Main Street structures over Kansas City Terminal Railroad and Brush Creek preliminary design and alignments were based on the Memo of Structural Findings dated 2/22/2019.

***ATTACHMENT A: 15% DESIGN ALIGNMENT TABULATIONS***



Project Name: KCSC South Extension  
 Description: KCSC South Extension  
 Horizontal Alignment Name: SB Alignment  
 Description: SB Alignment  
 Style: KCSC Horizontal Alignment SB

	STATION	NORTHING	EASTING
Element: Linear			
POB ( )	1000+00.00	1044510.0736	2764807.2707
PC ( )	1002+31.02	1044741.0014	2764813.9230
Tangent Direction:	N 1^39'00" E		
Tangent Length:	231.02		
Element: Circular			
PC ( )	1002+31.02	1044741.0014	2764813.9230
PI ( )	1002+35.18	1044745.1521	2764814.0426
CC ( )		1044743.3632	2764731.9370
PT ( )	1002+39.32	1044749.2937	2764813.7423
Radius:	82.02		
Delta:	5^47'47" Left		
Degree of Curvature(Arc):	69^51'21"		
Length:	8.30		
Tangent:	4.15		
Chord:	8.29		
Middle Ordinate:	0.10		
External:	0.11		
Tangent Direction:	N 1^39'00" E		
Radial Direction:	S 88^21'00" E		
Chord Direction:	N 1^14'54" W		
Radial Direction:	N 85^51'13" E		
Tangent Direction:	N 4^08'47" W		
Element: Linear			
PT ( )	1002+39.32	1044749.2937	2764813.7423
TS ( )	1004+88.09	1044997.4116	2764795.7547
Tangent Direction:	N 4^08'47" W		
Tangent Length:	248.77		
Element: Clothoid			
TS ( )	1004+88.09	1044997.4116	2764795.7547
SPI ( )	1005+08.09	1045017.3593	2764794.3086
SC ( )	1005+18.09	1045027.3293	2764793.5340
Entrance Radius:	0.00		
Exit Radius:	2900.00		
Length:	30.00		
Angle:	0^17'47" Left		
Constant:	294.96		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.05		
P:	0.01		
K:	15.00		
Tangent Direction:	N 4^08'47" W		
Radial Direction:	N 85^51'13" E		
Chord Direction:	N 4^14'43" W		
Radial Direction:	N 85^33'26" E		
Tangent Direction:	N 4^26'34" W		
Element: Circular			
SC ( )	1005+18.09	1045027.3293	2764793.5340
PI ( )	1006+83.78	1045192.5232	2764780.6988
CC ( )		1044802.6827	2761902.2481
CS ( )	1008+49.11	1045355.1802	2764749.1318
Radius:	2900.00		
Delta:	6^32'24" Left		
Degree of Curvature(Arc):	1^58'33"		
Length:	331.02		
Tangent:	165.69		
Chord:	330.84		
Middle Ordinate:	4.72		
External:	4.73		
Tangent Direction:	N 4^26'34" W		
Radial Direction:	N 85^33'26" E		
Chord Direction:	N 7^42'46" W		
Radial Direction:	N 79^01'01" E		
Tangent Direction:	N 10^58'59" W		

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Element: Clothoid
      CS (          )          1008+49.11  1045355.1802  2764749.1318
      SPI (         )          1008+59.11  1045364.9970  2764747.2266
      ST (          )          1008+79.11  1045384.6108  2764743.3147
Entrance Radius:          2900.00
Exit Radius:              0.00
Length:                   30.00
Angle:                    0^17'47" Left
Constant:                 294.96
Long Tangent:             20.00
Short Tangent:            10.00
Long Chord:               30.00
      Xs:                30.00
      Ys:                 0.05
      P:                  0.01
      K:                  15.00
Tangent Direction:       N 10^58'59" W
Radial Direction:       N 79^01'01" E
Chord Direction:        N 11^10'50" W
Radial Direction:       N 78^43'15" E
Tangent Direction:       N 11^16'45" W

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Element: Linear
      ST (          )          1008+79.11  1045384.6108  2764743.3147
      TS (          )          1009+09.02  1045413.9387  2764737.4655
Tangent Direction:       N 11^16'45" W
Tangent Length:         29.91

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Element: Clothoid
      TS (          )          1009+09.02  1045413.9387  2764737.4655
      SPI (         )          1009+29.02  1045433.5526  2764733.5536
      SC (          )          1009+39.02  1045443.3307  2764731.4578
Entrance Radius:          0.00
Exit Radius:              1050.00
Length:                   30.00
Angle:                    0^49'07" Left
Constant:                 177.48
Long Tangent:             20.00
Short Tangent:            10.00
Long Chord:               30.00
      Xs:                30.00
      Ys:                 0.14
      P:                  0.04
      K:                  15.00
Tangent Direction:       N 11^16'45" W
Radial Direction:       N 78^43'15" E
Chord Direction:        N 11^33'08" W
Radial Direction:       N 77^54'08" E
Tangent Direction:       N 12^05'52" W

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Element: Circular
      SC (          )          1009+39.02  1045443.3307  2764731.4578
      PI (          )          1009+62.59  1045466.3787  2764726.5176
      CC (          )          1009+86.15  1045223.2708  2763704.7769
      CS (          )          1009+86.15  1045489.1818  2764720.5482
      Radius:           1050.00
      Delta:            2^34'19" Left
Degree of Curvature(Arc): 5^27'24"
Length:                   47.14
Tangent:                  23.57
Chord:                    47.13
Middle Ordinate:         0.26
External:                 0.26
Tangent Direction:       N 12^05'52" W
Radial Direction:       N 77^54'08" E
Chord Direction:        N 13^23'02" W
Radial Direction:       N 75^19'49" E
Tangent Direction:       N 14^40'11" W

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Element: Clothoid
      CS (          )          1009+86.15  1045489.1818  2764720.5482
      SPI (         )          1009+96.15  1045498.8560  2764718.0156
      ST (          )          1010+16.15  1045518.1299  2764712.6747
Entrance Radius:          1050.00
Exit Radius:              0.00
Length:                   30.00
Angle:                    0^49'07" Left
Constant:                 177.48
Long Tangent:             20.00

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Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 14^40'11" W  
 Radial Direction: N 75^19'49" E  
 Chord Direction: N 15^12'56" W  
 Radial Direction: N 74^30'42" E  
 Tangent Direction: N 15^29'18" W

Element: Linear

ST ( ) 1010+16.15 1045518.1299 2764712.6747  
 TS ( ) 1010+16.45 1045518.4152 2764712.5957  
 Tangent Direction: N 15^29'18" W  
 Tangent Length: 0.30

Element: Clothoid

TS ( ) 1010+16.45 1045518.4152 2764712.5957  
 SPI ( ) 1010+37.12 1045538.3314 2764707.0768  
 SC ( ) 1010+47.45 1045548.2606 2764704.2146  
 Entrance Radius: 0.00  
 Exit Radius: 1500.00  
 Length: 31.00  
 Angle: 0^35'31" Left  
 Constant: 215.64  
 Long Tangent: 20.67  
 Short Tangent: 10.33  
 Long Chord: 31.00  
 Xs: 31.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.50  
 Tangent Direction: N 15^29'18" W  
 Radial Direction: N 74^30'42" E  
 Chord Direction: N 15^41'08" W  
 Radial Direction: N 73^55'11" E  
 Tangent Direction: N 16^04'49" W

Element: Circular

SC ( ) 1010+47.45 1045548.2606 2764704.2146  
 PI ( ) 1011+10.84 1045609.1669 2764686.6574  
 CC ( ) 1045132.7817 2763262.9036  
 CS ( ) 1011+74.15 1045668.3749 2764664.0246  
 Radius: 1500.00  
 Delta: 4^50'22" Left  
 Degree of Curvature(Arc): 3^49'11"  
 Length: 126.70  
 Tangent: 63.39  
 Chord: 126.66  
 Middle Ordinate: 1.34  
 External: 1.34  
 Tangent Direction: N 16^04'49" W  
 Radial Direction: N 73^55'11" E  
 Chord Direction: N 18^30'00" W  
 Radial Direction: N 69^04'48" E  
 Tangent Direction: N 20^55'12" W

Element: Clothoid

CS ( ) 1011+74.15 1045668.3749 2764664.0246  
 SPI ( ) 1011+84.48 1045678.0272 2764660.3349  
 ST ( ) 1012+05.15 1045697.2543 2764652.7565  
 Entrance Radius: 1500.00  
 Exit Radius: 0.00  
 Length: 31.00  
 Angle: 0^35'31" Left  
 Constant: 215.64  
 Long Tangent: 20.67  
 Short Tangent: 10.33  
 Long Chord: 31.00  
 Xs: 31.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.50  
 Tangent Direction: N 20^55'12" W  
 Radial Direction: N 69^04'48" E  
 Chord Direction: N 21^18'53" W  
 Radial Direction: N 68^29'17" E

Tangent Direction: N 21^30'43" W

Element: Linear

ST ( ) 1012+05.15 1045697.2543 2764652.7565  
TS ( ) 1012+58.68 1045747.0578 2764633.1264  
Tangent Direction: N 21^30'43" W  
Tangent Length: 53.53

Element: Clothoid

TS ( ) 1012+58.68 1045747.0578 2764633.1264  
SPI ( ) 1012+85.35 1045771.8678 2764623.3475  
SC ( ) 1012+98.68 1045784.1469 2764618.1494  
Entrance Radius: 0.00  
Exit Radius: 800.00  
Length: 40.00  
Angle: 1^25'57" Left  
Constant: 178.89  
Long Tangent: 26.67  
Short Tangent: 13.33  
Long Chord: 40.00  
Xs: 40.00  
Ys: 0.33  
P: 0.08  
K: 20.00  
Tangent Direction: N 21^30'43" W  
Radial Direction: N 68^29'17" E  
Chord Direction: N 21^59'22" W  
Radial Direction: N 67^03'20" E  
Tangent Direction: N 22^56'40" W

Element: Circular

SC ( ) 1012+98.68 1045784.1469 2764618.1494  
PI ( ) 1013+47.14 1045828.7762 2764599.2565  
CC ( ) 1045472.2777 2763881.4421  
CS ( ) 1013+95.49 1045870.7984 2764575.1144  
Radius: 800.00  
Delta: 6^56'00" Left  
Degree of Curvature(Arc): 7^09'43"  
Length: 96.81  
Tangent: 48.46  
Chord: 96.75  
Middle Ordinate: 1.46  
External: 1.47  
Tangent Direction: N 22^56'40" W  
Radial Direction: N 67^03'20" E  
Chord Direction: N 26^24'40" W  
Radial Direction: N 60^07'20" E  
Tangent Direction: N 29^52'40" W

Element: Clothoid

CS ( ) 1013+95.49 1045870.7984 2764575.1144  
SPI ( ) 1014+08.82 1045882.3603 2764568.4720  
SS ( ) 1014+35.49 1045905.1442 2764554.6137  
Entrance Radius: 800.00  
Exit Radius: 0.00  
Length: 40.00  
Angle: 1^25'57" Left  
Constant: 178.89  
Long Tangent: 26.67  
Short Tangent: 13.33  
Long Chord: 40.00  
Xs: 40.00  
Ys: 0.33  
P: 0.08  
K: 20.00  
Tangent Direction: N 29^52'40" W  
Radial Direction: N 60^07'20" E  
Chord Direction: N 30^49'58" W  
Radial Direction: N 58^41'24" E  
Tangent Direction: N 31^18'36" W

Element: Clothoid

SS ( ) 1014+35.49 1045905.1442 2764554.6136  
SPI ( ) 1014+62.16 1045927.9281 2764540.7553  
SC ( ) 1014+75.49 1045939.4900 2764534.1129  
Entrance Radius: 0.00  
Exit Radius: 800.00  
Length: 40.00  
Angle: 1^25'57" Right

Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 31^18'36" W  
 Radial Direction: N 58^41'24" E  
 Chord Direction: N 30^49'58" W  
 Radial Direction: N 60^07'20" E  
 Tangent Direction: N 29^52'40" W

Element: Circular

SC ( ) 1014+75.49 1045939.4900 2764534.1129  
 PI ( ) 1015+19.04 1045977.2563 2764512.4158  
 CC ( ) 1046338.0107 2765227.7852  
 CS ( ) 1015+62.51 1046017.1550 2764494.9471

Radius: 800.00  
 Delta: 6^13'58" Right

Degree of Curvature(Arc): 7^09'43"  
 Length: 87.02  
 Tangent: 43.56  
 Chord: 86.98  
 Middle Ordinate: 1.18  
 External: 1.18  
 Tangent Direction: N 29^52'40" W  
 Radial Direction: N 60^07'20" E  
 Chord Direction: N 26^45'41" W  
 Radial Direction: N 66^21'18" E  
 Tangent Direction: N 23^38'42" W

Element: Clothoid

CS ( ) 1015+62.51 1046017.1550 2764494.9471  
 SPI ( ) 1015+75.85 1046029.3697 2764489.5992  
 ST ( ) 1016+02.51 1046054.0582 2764479.5177

Entrance Radius: 800.00  
 Exit Radius: 0.00  
 Length: 40.00  
 Angle: 1^25'57" Right  
 Constant: 178.89

Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 23^38'42" W  
 Radial Direction: N 66^21'18" E  
 Chord Direction: N 22^41'24" W  
 Radial Direction: N 67^47'14" E  
 Tangent Direction: N 22^12'46" W

Element: Linear

ST ( ) 1016+02.51 1046054.0582 2764479.5177  
 TS ( ) 1018+41.41 1046275.2221 2764389.2053  
 Tangent Direction: N 22^12'46" W  
 Tangent Length: 238.89

Element: Clothoid

TS ( ) 1018+41.41 1046275.2221 2764389.2053  
 SPI ( ) 1018+61.41 1046293.7380 2764381.6443  
 SC ( ) 1018+71.41 1046302.9411 2764377.7319

Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48

Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 22^12'46" W  
 Radial Direction: N 67^47'14" E

Chord Direction: N 22^29'08" W  
 Radial Direction: N 66^58'08" E  
 Tangent Direction: N 23^01'52" W

Element: Circular  
 SC ( ) 1018+71.41 1046302.9411 2764377.7319  
 PI ( ) 1018+84.40 1046314.9031 2764372.6467  
 CC ( ) 1045892.1475 2763411.4252  
 CS ( ) 1018+97.40 1046326.7355 2764367.2669  
 Radius: 1050.00  
 Delta: 1^25'06" Left  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 25.99  
 Tangent: 13.00  
 Chord: 25.99  
 Middle Ordinate: 0.08  
 External: 0.08  
 Tangent Direction: N 23^01'52" W  
 Radial Direction: N 66^58'08" E  
 Chord Direction: N 23^44'25" W  
 Radial Direction: N 65^33'01" E  
 Tangent Direction: N 24^26'59" W

Element: Clothoid  
 CS ( ) 1018+97.40 1046326.7355 2764367.2669  
 SPI ( ) 1019+07.40 1046335.8390 2764363.1279  
 ST ( ) 1019+27.40 1046353.9256 2764354.5907  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 24^26'59" W  
 Radial Direction: N 65^33'01" E  
 Chord Direction: N 24^59'43" W  
 Radial Direction: N 64^43'55" E  
 Tangent Direction: N 25^16'05" W

Element: Linear  
 ST ( ) 1019+27.40 1046353.9256 2764354.5907  
 TS ( ) 1019+27.43 1046353.9494 2764354.5794  
 Tangent Direction: N 25^16'05" W  
 Tangent Length: 0.03

Element: Clothoid  
 TS ( ) 1019+27.43 1046353.9494 2764354.5794  
 SPI ( ) 1019+47.43 1046372.0359 2764346.0422  
 SC ( ) 1019+57.43 1046381.1394 2764341.9032  
 Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 25^16'05" W  
 Radial Direction: N 64^43'55" E  
 Chord Direction: N 24^59'43" W  
 Radial Direction: N 65^33'01" E  
 Tangent Direction: N 24^26'59" W

Element: Circular  
 SC ( ) 1019+57.43 1046381.1394 2764341.9032  
 PI ( ) 1019+70.43 1046392.9718 2764336.5234  
 CC ( ) 1046815.7274 2765297.7449  
 CS ( ) 1019+83.42 1046404.9338 2764331.4382  
 Radius: 1050.00

Delta: 1^25'06" Right  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 25.99  
 Tangent: 13.00  
 Chord: 25.99  
 Middle Ordinate: 0.08  
 External: 0.08  
 Tangent Direction: N 24^26'59" W  
 Radial Direction: N 65^33'01" E  
 Chord Direction: N 23^44'25" W  
 Radial Direction: N 66^58'08" E  
 Tangent Direction: N 23^01'52" W

Element: Clothoid  
 CS ( ) 1019+83.42 1046404.9338 2764331.4382  
 SPI ( ) 1019+93.42 1046414.1369 2764327.5258  
 ST ( ) 1020+13.42 1046432.6528 2764319.9648  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 23^01'52" W  
 Radial Direction: N 66^58'08" E  
 Chord Direction: N 22^29'08" W  
 Radial Direction: N 67^47'14" E  
 Tangent Direction: N 22^12'46" W

Element: Linear  
 ST ( ) 1020+13.42 1046432.6528 2764319.9648  
 TS ( ) 1023+68.82 1046761.6709 2764185.6101  
 Tangent Direction: N 22^12'46" W  
 Tangent Length: 355.39

Element: Clothoid  
 TS ( ) 1023+68.82 1046761.6709 2764185.6101  
 SPI ( ) 1023+88.82 1046780.1873 2764178.0490  
 SC ( ) 1023+98.82 1046789.5373 2764174.5009  
 Entrance Radius: 0.00  
 Exit Radius: 600.00  
 Length: 30.00  
 Angle: 1^25'57" Right  
 Constant: 134.16  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.25  
 P: 0.06  
 K: 15.00  
 Tangent Direction: N 22^12'46" W  
 Radial Direction: N 67^47'14" E  
 Chord Direction: N 21^44'07" W  
 Radial Direction: N 69^13'11" E  
 Tangent Direction: N 20^46'49" W

Element: Circular  
 SC ( ) 1023+98.82 1046789.5373 2764174.5009  
 PI ( ) 1024+23.80 1046812.8960 2764165.6370  
 CC ( ) 1047002.4083 2764735.4696  
 CS ( ) 1024+48.75 1046836.9108 2764158.7456  
 Radius: 600.00  
 Delta: 4^46'08" Right  
 Degree of Curvature(Arc): 9^32'57"  
 Length: 49.94  
 Tangent: 24.98  
 Chord: 49.92  
 Middle Ordinate: 0.52  
 External: 0.52  
 Tangent Direction: N 20^46'49" W  
 Radial Direction: N 69^13'11" E  
 Chord Direction: N 18^23'45" W

Radial Direction: N 73^59'19" E  
Tangent Direction: N 16^00'41" W

Element: Clothoid  
CS ( ) 1024+48.75 1046836.9108 2764158.7456  
SPI ( ) 1024+58.76 1046846.5234 2764155.9872  
ST ( ) 1024+78.75 1046865.8801 2764150.9527  
Entrance Radius: 600.00  
Exit Radius: 0.00  
Length: 30.00  
Angle: 1^25'57" Right  
Constant: 134.16  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.25  
P: 0.06  
K: 15.00  
Tangent Direction: N 16^00'41" W  
Radial Direction: N 73^59'19" E  
Chord Direction: N 15^03'23" W  
Radial Direction: N 75^25'15" E  
Tangent Direction: N 14^34'45" W

Element: Linear  
ST ( ) 1024+78.75 1046865.8801 2764150.9527  
TS ( ) 1025+23.40 1046909.0920 2764139.7137  
Tangent Direction: N 14^34'45" W  
Tangent Length: 44.65

Element: Clothoid  
TS ( ) 1025+23.40 1046909.0920 2764139.7137  
SPI ( ) 1025+50.07 1046934.9008 2764133.0011  
SC ( ) 1025+63.40 1046947.7177 2764129.3232  
Entrance Radius: 0.00  
Exit Radius: 800.00  
Length: 40.00  
Angle: 1^25'57" Left  
Constant: 178.89  
Long Tangent: 26.67  
Short Tangent: 13.33  
Long Chord: 40.00  
Xs: 40.00  
Ys: 0.33  
P: 0.08  
K: 20.00  
Tangent Direction: N 14^34'45" W  
Radial Direction: N 75^25'15" E  
Chord Direction: N 15^03'23" W  
Radial Direction: N 73^59'19" E  
Tangent Direction: N 16^00'41" W

Element: Circular  
SC ( ) 1025+63.40 1046947.7177 2764129.3232  
PI ( ) 1025+86.06 1046969.4941 2764123.0742  
CC ( ) 1046727.0543 2763360.3579  
CS ( ) 1026+08.70 1046990.8820 2764115.6028  
Radius: 800.00  
Delta: 3^14'39" Left  
Degree of Curvature(Arc): 7^09'43"  
Length: 45.30  
Tangent: 22.66  
Chord: 45.29  
Middle Ordinate: 0.32  
External: 0.32  
Tangent Direction: N 16^00'41" W  
Radial Direction: N 73^59'19" E  
Chord Direction: N 17^38'01" W  
Radial Direction: N 70^44'39" E  
Tangent Direction: N 19^15'21" W

Element: Clothoid  
CS ( ) 1026+08.70 1046990.8820 2764115.6028  
SPI ( ) 1026+22.04 1047003.4702 2764111.2054  
ST ( ) 1026+48.70 1047028.4181 2764101.7843  
Entrance Radius: 800.00  
Exit Radius: 0.00  
Length: 40.00



	Angle:	1^25'57"	Left
	Constant:	178.89	
	Long Tangent:	26.67	
	Short Tangent:	13.33	
	Long Chord:	40.00	
	Xs:	40.00	
	Ys:	0.33	
	P:	0.08	
	K:	20.00	
	Tangent Direction:	N 19^15'21" W	
	Radial Direction:	N 70^44'39" E	
	Chord Direction:	N 20^12'38" W	
	Radial Direction:	N 69^18'43" E	
	Tangent Direction:	N 20^41'17" W	
Element:	Linear		
	ST ( )	1026+48.70	1047028.4181 2764101.7843
	TS ( )	1026+48.72	1047028.4365 2764101.7773
	Tangent Direction:	N 20^41'17" W	
	Tangent Length:	0.02	
Element:	Clothoid		
	TS ( )	1026+48.72	1047028.4365 2764101.7773
	SPI ( )	1026+75.39	1047053.3845 2764092.3562
	SC ( )	1026+88.72	1047065.9726 2764087.9588
	Entrance Radius:	0.00	
	Exit Radius:	800.00	
	Length:	40.00	
	Angle:	1^25'57"	Right
	Constant:	178.89	
	Long Tangent:	26.67	
	Short Tangent:	13.33	
	Long Chord:	40.00	
	Xs:	40.00	
	Ys:	0.33	
	P:	0.08	
	K:	20.00	
	Tangent Direction:	N 20^41'17" W	
	Radial Direction:	N 69^18'43" E	
	Chord Direction:	N 20^12'38" W	
	Radial Direction:	N 70^44'39" E	
	Tangent Direction:	N 19^15'21" W	
Element:	Circular		
	SC ( )	1026+88.72	1047065.9726 2764087.9588
	PI ( )	1027+51.93	1047125.6462 2764067.1132
	CC ( )		1047329.8004 2764843.2038
	CS ( )	1028+14.88	1047187.8531 2764055.8976
	Radius:	800.00	
	Delta:	9^02'07"	Right
Degree of Curvature(Arc):		7^09'43"	
	Length:	126.16	
	Tangent:	63.21	
	Chord:	126.03	
	Middle Ordinate:	2.49	
	External:	2.49	
	Tangent Direction:	N 19^15'21" W	
	Radial Direction:	N 70^44'39" E	
	Chord Direction:	N 14^44'17" W	
	Radial Direction:	N 79^46'47" E	
	Tangent Direction:	N 10^13'13" W	
Element:	Clothoid		
	CS ( )	1028+14.88	1047187.8531 2764055.8976
	SPI ( )	1028+28.21	1047200.9756 2764053.5317
	ST ( )	1028+54.88	1047227.3301 2764049.4575
	Entrance Radius:	800.00	
	Exit Radius:	0.00	
	Length:	40.00	
	Angle:	1^25'57"	Right
	Constant:	178.89	
	Long Tangent:	26.67	
	Short Tangent:	13.33	
	Long Chord:	40.00	
	Xs:	40.00	
	Ys:	0.33	
	P:	0.08	
	K:	20.00	
	Tangent Direction:	N 10^13'13" W	

Radial Direction: N 79^46'47" E  
 Chord Direction: N 9^15'55" W  
 Radial Direction: N 81^12'43" E  
 Tangent Direction: N 8^47'17" W

Element: Linear  
 ST ( ) 1028+54.88 1047227.3301 2764049.4575  
 TS ( ) 1028+97.09 1047269.0445 2764043.0087  
 Tangent Direction: N 8^47'17" W  
 Tangent Length: 42.21

Element: Clothoid  
 TS ( ) 1028+97.09 1047269.0445 2764043.0087  
 SPI ( ) 1029+17.09 1047288.8103 2764039.9531  
 SC ( ) 1029+27.09 1047298.7286 2764038.6727  
 Entrance Radius: 0.00  
 Exit Radius: 600.00  
 Length: 30.00  
 Angle: 1^25'57" Right  
 Constant: 134.16  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.25  
 P: 0.06  
 K: 15.00  
 Tangent Direction: N 8^47'17" W  
 Radial Direction: N 81^12'43" E  
 Chord Direction: N 8^18'38" W  
 Radial Direction: N 82^38'40" E  
 Tangent Direction: N 7^21'20" W

Element: Circular  
 SC ( ) 1029+27.09 1047298.7286 2764038.6727  
 PI ( ) 1029+87.52 1047358.6633 2764030.9359  
 CC ( ) 1047375.5443 2764633.7352  
 CS ( ) 1030+47.55 1047418.9370 2764035.3064  
 Radius: 600.00  
 Delta: 11^30'10" Right  
 Degree of Curvature(Arc): 9^32'57"  
 Length: 120.46  
 Tangent: 60.43  
 Chord: 120.26  
 Middle Ordinate: 3.02  
 External: 3.04  
 Tangent Direction: N 7^21'20" W  
 Radial Direction: N 82^38'40" E  
 Chord Direction: N 1^36'15" W  
 Radial Direction: S 85^51'10" E  
 Tangent Direction: N 4^08'50" E

Element: Clothoid  
 CS ( ) 1030+47.55 1047418.9370 2764035.3064  
 SPI ( ) 1030+57.55 1047428.9115 2764036.0296  
 ST ( ) 1030+77.55 1047448.8173 2764037.9743  
 Entrance Radius: 600.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 1^25'57" Right  
 Constant: 134.16  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.25  
 P: 0.06  
 K: 15.00  
 Tangent Direction: N 4^08'50" E  
 Radial Direction: S 85^51'10" E  
 Chord Direction: N 5^06'08" E  
 Radial Direction: S 84^25'13" E  
 Tangent Direction: N 5^34'47" E

Element: Linear  
 ST ( ) 1030+77.55 1047448.8173 2764037.9743  
 TS ( ) 1030+77.57 1047448.8406 2764037.9766  
 Tangent Direction: N 5^34'47" E  
 Tangent Length: 0.02

Element: Clothoid

TS ( )	1030+77.57	1047448.8406	2764037.9766
SPI ( )	1030+97.57	1047468.7460	2764039.9212
SC ( )	1031+07.57	1047478.7117	2764040.7513
Entrance Radius:	0.00		
Exit Radius:	1050.00		
Length:	30.00		
Angle:	0^49'07"	Left	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 5^34'47"	E	
Radial Direction:	S 84^25'13"	E	
Chord Direction:	N 5^18'25"	E	
Radial Direction:	S 85^14'20"	E	
Tangent Direction:	N 4^45'40"	E	

Element: Circular

SC ( )	1031+07.57	1047478.7117	2764040.7513
PI ( )	1031+20.82	1047491.9131	2764041.8508
CC ( )		1047565.8650	2762994.3745
CS ( )	1031+34.06	1047505.1381	2764042.6170
Radius:	1050.00		
Delta:	1^26'44"	Left	
Degree of Curvature(Arc):	5^27'24"		
Length:	26.49		
Tangent:	13.25		
Chord:	26.49		
Middle Ordinate:	0.08		
External:	0.08		
Tangent Direction:	N 4^45'40"	E	
Radial Direction:	S 85^14'20"	E	
Chord Direction:	N 4^02'18"	E	
Radial Direction:	S 86^41'04"	E	
Tangent Direction:	N 3^18'56"	E	

Element: Clothoid

CS ( )	1031+34.06	1047505.1381	2764042.6170
SPI ( )	1031+44.06	1047515.1215	2764043.1953
ST ( )	1031+64.06	1047535.1027	2764044.0667
Entrance Radius:	1050.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^49'07"	Left	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 3^18'56"	E	
Radial Direction:	S 86^41'04"	E	
Chord Direction:	N 2^46'12"	E	
Radial Direction:	S 87^30'11"	E	
Tangent Direction:	N 2^29'49"	E	

Element: Linear

ST ( )	1031+64.06	1047535.1027	2764044.0667
TS ( )	1035+49.73	1047920.3985	2764060.8692
Tangent Direction:	N 2^29'49"	E	
Tangent Length:	385.66		

Element: Clothoid

TS ( )	1035+49.73	1047920.3985	2764060.8692
SPI ( )	1035+69.73	1047940.3797	2764061.7405
SC ( )	1035+79.73	1047950.3756	2764062.0335
Entrance Radius:	0.00		
Exit Radius:	1050.00		
Length:	30.00		
Angle:	0^49'07"	Left	
Constant:	177.48		

Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 2^29'49" E  
 Radial Direction: S 87^30'11" E  
 Chord Direction: N 2^13'27" E  
 Radial Direction: S 88^19'17" E  
 Tangent Direction: N 1^40'43" E

Element: Circular

SC ( ) 1035+79.73 1047950.3756 2764062.0335  
 PI ( ) 1036+05.79 1047976.4315 2764062.7970  
 CC ( ) 1047981.1320 2763012.4840  
 CS ( ) 1036+31.85 1048002.4932 2764062.2667

Radius: 1050.00  
 Delta: 2^50'39" Left

Degree of Curvature(Arc):

5^27'24"  
 Length: 52.12  
 Tangent: 26.07  
 Chord: 52.12

Middle Ordinate: 0.32  
 External: 0.32

Tangent Direction: N 1^40'43" E  
 Radial Direction: S 88^19'17" E  
 Chord Direction: N 0^15'23" E  
 Radial Direction: N 88^50'03" E  
 Tangent Direction: N 1^09'57" W

Element: Clothoid

CS ( ) 1036+31.85 1048002.4932 2764062.2667  
 SPI ( ) 1036+41.85 1048012.4913 2764062.0633  
 ST ( ) 1036+61.85 1048032.4796 2764061.3708

Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Left

Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00

Tangent Direction: N 1^09'57" W  
 Radial Direction: N 88^50'03" E  
 Chord Direction: N 1^42'41" W  
 Radial Direction: N 88^00'57" E  
 Tangent Direction: N 1^59'03" W

Element: Linear

ST ( ) 1036+61.85 1048032.4796 2764061.3708  
 TS ( ) 1037+02.31 1048072.9173 2764059.9698  
 Tangent Direction: N 1^59'03" W  
 Tangent Length: 40.46

Element: Clothoid

TS ( ) 1037+02.31 1048072.9173 2764059.9698  
 SPI ( ) 1037+22.31 1048092.9059 2764059.2773  
 SC ( ) 1037+32.31 1048102.8889 2764058.6854

Entrance Radius: 0.00  
 Exit Radius: 610.00  
 Length: 30.00  
 Angle: 1^24'32" Left

Constant: 135.28  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.25  
 P: 0.06  
 K: 15.00

Tangent Direction: N 1^59'03" W  
 Radial Direction: N 88^00'57" E  
 Chord Direction: N 2^27'14" W

Radial Direction: N 86^36'25" E  
Tangent Direction: N 3^23'35" W

Element: Circular

SC ( ) 1037+32.31 1048102.8889 2764058.6854  
PI ( ) 1037+54.91 1048125.4475 2764057.3479  
CC ( ) 1048066.7851 2763449.7548  
CS ( ) 1037+77.49 1048147.8452 2764054.3449  
Radius: 610.00  
Delta: 4^14'36" Left  
Degree of Curvature(Arc): 9^23'34"  
Length: 45.18  
Tangent: 22.60  
Chord: 45.17  
Middle Ordinate: 0.42  
External: 0.42  
Tangent Direction: N 3^23'35" W  
Radial Direction: N 86^36'25" E  
Chord Direction: N 5^30'53" W  
Radial Direction: N 82^21'49" E  
Tangent Direction: N 7^38'11" W

Element: Clothoid

CS ( ) 1037+77.49 1048147.8452 2764054.3449  
SPI ( ) 1037+87.49 1048157.7571 2764053.0160  
ST ( ) 1038+07.49 1048177.5090 2764049.8716  
Entrance Radius: 610.00  
Exit Radius: 0.00  
Length: 30.00  
Angle: 1^24'32" Left  
Constant: 135.28  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.25  
P: 0.06  
K: 15.00  
Tangent Direction: N 7^38'11" W  
Radial Direction: N 82^21'49" E  
Chord Direction: N 8^34'32" W  
Radial Direction: N 80^57'17" E  
Tangent Direction: N 9^02'43" W

Element: Linear

ST ( ) 1038+07.49 1048177.5090 2764049.8716  
TS ( ) 1038+07.50 1048177.5216 2764049.8696  
Tangent Direction: N 9^02'43" W  
Tangent Length: 0.01

Element: Clothoid

TS ( ) 1038+07.50 1048177.5216 2764049.8696  
SPI ( ) 1038+27.50 1048197.2735 2764046.7252  
SC ( ) 1038+37.50 1048207.1854 2764045.3963  
Entrance Radius: 0.00  
Exit Radius: 610.00  
Length: 30.00  
Angle: 1^24'32" Right  
Constant: 135.28  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.25  
P: 0.06  
K: 15.00  
Tangent Direction: N 9^02'43" W  
Radial Direction: N 80^57'17" E  
Chord Direction: N 8^34'32" W  
Radial Direction: N 82^21'49" E  
Tangent Direction: N 7^38'11" W

Element: Circular

SC ( ) 1038+37.50 1048207.1854 2764045.3963  
PI ( ) 1038+83.78 1048253.0560 2764039.2462  
CC ( ) 1048288.2456 2764649.9864  
CS ( ) 1039+29.88 1048299.3294 2764040.0871  
Radius: 610.00  
Delta: 8^40'39" Right

Degree of Curvature(Arc): 9^23'34"  
 Length: 92.39  
 Tangent: 46.28  
 Chord: 92.30  
 Middle Ordinate: 1.75  
 External: 1.75  
 Tangent Direction: N 7^38'11" W  
 Radial Direction: N 82^21'49" E  
 Chord Direction: N 3^17'51" W  
 Radial Direction: S 88^57'32" E  
 Tangent Direction: N 1^02'28" E

Element: Clothoid  
 CS ( ) 1039+29.88 1048299.3294 2764040.0871  
 SPI ( ) 1039+39.89 1048309.3284 2764040.2688  
 ST ( ) 1039+59.88 1048329.3107 2764041.1238  
 Entrance Radius: 610.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 1^24'32" Right  
 Constant: 135.28  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.25  
 P: 0.06  
 K: 15.00  
 Tangent Direction: N 1^02'28" E  
 Radial Direction: S 88^57'32" E  
 Chord Direction: N 1^58'49" E  
 Radial Direction: S 87^33'00" E  
 Tangent Direction: N 2^27'00" E

Element: Linear  
 ST ( ) 1039+59.88 1048329.3107 2764041.1238  
 PC ( ) 1040+84.72 1048454.0348 2764046.4605  
 Tangent Direction: N 2^27'00" E  
 Tangent Length: 124.84

Element: Circular  
 PC ( ) 1040+84.72 1048454.0348 2764046.4605  
 PI ( ) 1040+99.66 1048468.9595 2764047.0990  
 CC ( ) 1048448.6912 2764171.3462  
 PT ( ) 1041+14.46 1048483.3135 2764051.2367  
 Radius: 125.00  
 Delta: 13^37'48" Right  
 Degree of Curvature(Arc): 45^50'12"  
 Length: 29.74  
 Tangent: 14.94  
 Chord: 29.67  
 Middle Ordinate: 0.88  
 External: 0.89  
 Tangent Direction: N 2^27'00" E  
 Radial Direction: S 87^33'00" E  
 Chord Direction: N 9^15'54" E  
 Radial Direction: S 73^55'12" E  
 Tangent Direction: N 16^04'48" E

Element: Linear  
 PT ( ) 1041+14.46 1048483.3135 2764051.2367  
 PC ( ) 1041+55.26 1048522.5229 2764062.5390  
 Tangent Direction: N 16^04'48" E  
 Tangent Length: 40.81

Element: Circular  
 PC ( ) 1041+55.26 1048522.5229 2764062.5390  
 PI ( ) 1041+70.16 1048536.8341 2764066.6643  
 CC ( ) 1048557.1451 2763942.4294  
 PT ( ) 1041+84.91 1048551.7140 2764067.3114  
 Radius: 125.00  
 Delta: 13^35'23" Left  
 Degree of Curvature(Arc): 45^50'12"  
 Length: 29.65  
 Tangent: 14.89  
 Chord: 29.58  
 Middle Ordinate: 0.88  
 External: 0.88  
 Tangent Direction: N 16^04'48" E

Radial Direction: S 73^55'12" E  
 Chord Direction: N 9^17'06" E  
 Radial Direction: S 87^30'35" E  
 Tangent Direction: N 2^29'25" E

Element: Linear  
 PT ( ) 1041+84.91 1048551.7140 2764067.3114  
 TS ( ) 1049+20.49 1049286.5976 2764099.2716  
 Tangent Direction: N 2^29'25" E  
 Tangent Length: 735.58

Element: Clothoid  
 TS ( ) 1049+20.49 1049286.5976 2764099.2716  
 SPI ( ) 1049+47.16 1049313.2400 2764100.4303  
 SC ( ) 1049+60.49 1049326.5429 2764101.3425  
 Entrance Radius: 0.00  
 Exit Radius: 800.00  
 Length: 40.00  
 Angle: 1^25'57" Right  
 Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 2^29'25" E  
 Radial Direction: S 87^30'35" E  
 Chord Direction: N 2^58'04" E  
 Radial Direction: S 86^04'39" E  
 Tangent Direction: N 3^55'21" E

Element: Circular  
 SC ( ) 1049+60.49 1049326.5429 2764101.3425  
 PI ( ) 1049+66.69 1049332.7301 2764101.7667  
 CC ( ) 1049+72.89 1049271.8154 2764899.4684  
 CS ( ) 1049+72.89 1049338.9101 2764102.2869  
 Radius: 800.00  
 Delta: 0^53'18" Right  
 Degree of Curvature(Arc): 7^09'43"  
 Length: 12.40  
 Tangent: 6.20  
 Chord: 12.40  
 Middle Ordinate: 0.02  
 External: 0.02  
 Tangent Direction: N 3^55'21" E  
 Radial Direction: S 86^04'39" E  
 Chord Direction: N 4^22'00" E  
 Radial Direction: S 85^11'21" E  
 Tangent Direction: N 4^48'39" E

Element: Clothoid  
 CS ( ) 1049+72.89 1049338.9101 2764102.2869  
 SPI ( ) 1049+86.23 1049352.1972 2764103.4052  
 ST ( ) 1050+12.89 1049378.7066 2764106.3053  
 Entrance Radius: 800.00  
 Exit Radius: 0.00  
 Length: 40.00  
 Angle: 1^25'57" Right  
 Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 4^48'39" E  
 Radial Direction: S 85^11'21" E  
 Chord Direction: N 5^45'57" E  
 Radial Direction: S 83^45'24" E  
 Tangent Direction: N 6^14'36" E

Element: Linear  
 ST ( ) 1050+12.89 1049378.7066 2764106.3053  
 TS ( ) 1050+12.91 1049378.7211 2764106.3069  
 Tangent Direction: N 6^14'36" E  
 Tangent Length: 0.01

Element: Clothoid

TS ( )	1050+12.91	1049378.7211	2764106.3069
SPI ( )	1050+39.58	1049405.2305	2764109.2071
SC ( )	1050+52.91	1049418.5177	2764110.3254
Entrance Radius:	0.00		
Exit Radius:	800.00		
Length:	40.00		
Angle:	1^25'57"	Left	
Constant:	178.89		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.33		
P:	0.08		
K:	20.00		
Tangent Direction:	N 6^14'36"	E	
Radial Direction:	S 83^45'24"	E	
Chord Direction:	N 5^45'57"	E	
Radial Direction:	S 85^11'21"	E	
Tangent Direction:	N 4^48'39"	E	

Element: Circular

SC ( )	1050+52.91	1049418.5177	2764110.3254
PI ( )	1050+58.86	1049424.4513	2764110.8248
CC ( )		1049485.6124	2763313.1439
CS ( )	1050+64.82	1049430.3917	2764111.2358
Radius:	800.00		
Delta:	0^51'11"	Left	
Degree of Curvature(Arc):	7^09'43"		
Length:	11.91		
Tangent:	5.95		
Chord:	11.91		
Middle Ordinate:	0.02		
External:	0.02		
Tangent Direction:	N 4^48'39"	E	
Radial Direction:	S 85^11'21"	E	
Chord Direction:	N 4^23'04"	E	
Radial Direction:	S 86^02'31"	E	
Tangent Direction:	N 3^57'29"	E	

Element: Clothoid

CS ( )	1050+64.82	1049430.3917	2764111.2358
SPI ( )	1050+78.15	1049443.6940	2764112.1562
ST ( )	1051+04.82	1049470.3356	2764113.3313
Entrance Radius:	800.00		
Exit Radius:	0.00		
Length:	40.00		
Angle:	1^25'57"	Left	
Constant:	178.89		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.33		
P:	0.08		
K:	20.00		
Tangent Direction:	N 3^57'29"	E	
Radial Direction:	S 86^02'31"	E	
Chord Direction:	N 3^00'11"	E	
Radial Direction:	S 87^28'28"	E	
Tangent Direction:	N 2^31'32"	E	

Element: Linear

ST ( )	1051+04.82	1049470.3356	2764113.3313
PC ( )	1052+35.06	1049600.4553	2764119.0708
Tangent Direction:	N 2^31'32"	E	
Tangent Length:	130.25		

Element: Circular

PC ( )	1052+35.06	1049600.4553	2764119.0708
PI ( )	1052+47.18	1049612.5632	2764119.6049
CC ( )		1049679.7751	2762320.8194
PT ( )	1052+59.30	1049624.6771	2764119.9759
Radius:	1800.00		
Delta:	0^46'18"	Left	
Degree of Curvature(Arc):	3^10'59"		
Length:	24.24		



Tangent		12.12		
Chord:		24.24		
Middle Ordinate:		0.04		
External:		0.04		
Tangent Direction:	N	2^31'32"	E	
Radial Direction:	S	87^28'28"	E	
Chord Direction:	N	2^08'24"	E	
Radial Direction:	S	88^14'45"	E	
Tangent Direction:	N	1^45'15"	E	
Element: Linear				
PT ( )		1052+59.30	1049624.6771	2764119.9759
PC ( )		1052+99.53	1049664.8882	2764121.2073
Tangent Direction:	N	1^45'15"	E	
Tangent Length:		40.23		
Element: Circular				
PC ( )		1052+99.53	1049664.8882	2764121.2073
PI ( )		1053+13.47	1049678.8221	2764121.6340
CC ( )			1049609.7901	2765920.3639
PT ( )		1053+27.41	1049692.7477	2764122.2765
Radius:		1800.00		
Delta:		0^53'15"	Right	
Degree of Curvature(Arc):		3^10'59"		
Length:		27.88		
Tangent:		13.94		
Chord:		27.88		
Middle Ordinate:		0.05		
External:		0.05		
Tangent Direction:	N	1^45'15"	E	
Radial Direction:	S	88^14'45"	E	
Chord Direction:	N	2^11'52"	E	
Radial Direction:	S	87^21'30"	E	
Tangent Direction:	N	2^38'30"	E	
Element: Linear				
PT ( )		1053+27.41	1049692.7477	2764122.2765
TS ( )		1059+03.05	1050267.7763	2764148.8064
Tangent Direction:	N	2^38'30"	E	
Tangent Length:		575.64		
Element: Clothoid				
TS ( )		1059+03.05	1050267.7763	2764148.8064
SPI ( )		1059+23.05	1050287.7551	2764149.7281
SC ( )		1059+33.05	1050297.7449	2764150.1790
Entrance Radius:		0.00		
Exit Radius:		15000.00		
Length:		30.00		
Angle:		0^03'26"	Left	
Constant:		670.82		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.01		
P:		0.00		
K:		15.00		
Tangent Direction:	N	2^38'30"	E	
Radial Direction:	S	87^21'30"	E	
Chord Direction:	N	2^37'21"	E	
Radial Direction:	S	87^24'57"	E	
Tangent Direction:	N	2^35'03"	E	
Element: Circular				
SC ( )		1059+33.05	1050297.7449	2764150.1790
PI ( )		1059+34.12	1050298.8065	2764150.2269
CC ( )			1050974.0739	2749165.4341
CS ( )		1059+35.18	1050299.8682	2764150.2747
Radius:		15000.00		
Delta:		0^00'29"	Left	
Degree of Curvature(Arc):		0^22'55"		
Length:		2.13		
Tangent:		1.06		
Chord:		2.13		
Middle Ordinate:		0.00		
External:		0.00		
Tangent Direction:	N	2^35'03"	E	
Radial Direction:	S	87^24'57"	E	
Chord Direction:	N	2^34'49"	E	

Radial Direction: S 87^25'26" E  
Tangent Direction: N 2^34'34" E

Element: Clothoid

CS ( ) 1059+35.18 1050299.8682 2764150.2747  
SPI ( ) 1059+45.18 1050309.8581 2764150.7242  
ST ( ) 1059+65.18 1050329.8388 2764151.6031  
Entrance Radius: 15000.00  
Exit Radius: 0.00  
Length: 30.00  
Angle: 0^03'26" Left  
Constant: 670.82  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.01  
P: 0.00  
K: 15.00  
Tangent Direction: N 2^34'34" E  
Radial Direction: S 87^25'26" E  
Chord Direction: N 2^32'17" E  
Radial Direction: S 87^28'52" E  
Tangent Direction: N 2^31'08" E

Element: Linear

ST ( ) 1059+65.18 1050329.8388 2764151.6031  
TS ( ) 1061+57.31 1050521.7859 2764160.0470  
Tangent Direction: N 2^31'08" E  
Tangent Length: 192.13

Element: Clothoid

TS ( ) 1061+57.31 1050521.7859 2764160.0470  
SPI ( ) 1061+77.31 1050541.7666 2764160.9259  
SC ( ) 1061+87.31 1050551.7564 2764161.3779  
Entrance Radius: 0.00  
Exit Radius: 12000.00  
Length: 30.00  
Angle: 0^04'18" Right  
Constant: 600.00  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.01  
P: 0.00  
K: 15.00  
Tangent Direction: N 2^31'08" E  
Radial Direction: S 87^28'52" E  
Chord Direction: N 2^32'34" E  
Radial Direction: S 87^24'34" E  
Tangent Direction: N 2^35'26" E

Element: Circular

SC ( ) 1061+87.31 1050551.7564 2764161.3779  
PI ( ) 1061+88.43 1050552.8719 2764161.4284  
CC ( ) 1050009.3949 2776149.1152  
CS ( ) 1061+89.55 1050553.9875 2764161.4791  
Radius: 12000.00  
Delta: 0^00'38" Right  
Degree of Curvature(Arc): 0^28'39"  
Length: 2.23  
Tangent: 1.12  
Chord: 2.23  
Middle Ordinate: 0.00  
External: 0.00  
Tangent Direction: N 2^35'26" E  
Radial Direction: S 87^24'34" E  
Chord Direction: N 2^35'45" E  
Radial Direction: S 87^23'56" E  
Tangent Direction: N 2^36'04" E

Element: Clothoid

CS ( ) 1061+89.55 1050553.9875 2764161.4791  
SPI ( ) 1061+99.55 1050563.9772 2764161.9329  
ST ( ) 1062+19.55 1050583.9555 2764162.8655  
Entrance Radius: 12000.00  
Exit Radius: 0.00  
Length: 30.00

Angle: 0^04'18" Right  
 Constant: 600.00  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.01  
 P: 0.00  
 K: 15.00  
 Tangent Direction: N 2^36'04" E  
 Radial Direction: S 87^23'56" E  
 Chord Direction: N 2^38'56" E  
 Radial Direction: S 87^19'38" E  
 Tangent Direction: N 2^40'22" E

Element: Linear  
 ST ( ) 1062+19.55 1050583.9555 2764162.8655  
 TS ( ) 1067+21.48 1051085.3470 2764186.2716  
 Tangent Direction: N 2^40'22" E  
 Tangent Length: 501.94

Element: Clothoid  
 TS ( ) 1067+21.48 1051085.3470 2764186.2716  
 SPI ( ) 1067+41.48 1051105.3255 2764187.2042  
 SC ( ) 1067+51.48 1051115.3205 2764187.5278  
 Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 2^40'22" E  
 Radial Direction: S 87^19'38" E  
 Chord Direction: N 2^24'00" E  
 Radial Direction: S 88^08'45" E  
 Tangent Direction: N 1^51'15" E

Element: Circular  
 SC ( ) 1067+51.48 1051115.3205 2764187.5278  
 PI ( ) 1067+70.61 1051134.4347 2764188.1466  
 CC ( ) 1051149.2953 2763138.0776  
 CS ( ) 1067+89.73 1051153.5589 2764188.0689  
 Radius: 1050.00  
 Delta: 2^05'13" Left  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 38.24  
 Tangent: 19.12  
 Chord: 38.24  
 Middle Ordinate: 0.17  
 External: 0.17  
 Tangent Direction: N 1^51'15" E  
 Radial Direction: S 88^08'45" E  
 Chord Direction: N 0^48'39" E  
 Radial Direction: N 89^46'02" E  
 Tangent Direction: N 0^13'58" W

Element: Clothoid  
 CS ( ) 1067+89.73 1051153.5589 2764188.0689  
 SPI ( ) 1067+99.73 1051163.5590 2764188.0283  
 ST ( ) 1068+19.73 1051183.5558 2764187.6614  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 0^13'58" W

Radial Direction: N 89^46'02" E  
 Chord Direction: N 0^46'42" W  
 Radial Direction: N 88^56'56" E  
 Tangent Direction: N 1^03'04" W

Element: Linear  
 ST ( ) 1068+19.73 1051183.5558 2764187.6614  
 TS ( ) 1068+62.05 1051225.8748 2764186.8849  
 Tangent Direction: N 1^03'04" W  
 Tangent Length: 42.33

Element: Clothoid  
 TS ( ) 1068+62.05 1051225.8748 2764186.8849  
 SPI ( ) 1068+82.05 1051245.8716 2764186.5180  
 SC ( ) 1068+92.05 1051255.8717 2764186.4774  
 Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 1^03'04" W  
 Radial Direction: N 88^56'56" E  
 Chord Direction: N 0^46'42" W  
 Radial Direction: N 89^46'02" E  
 Tangent Direction: N 0^13'58" W

Element: Circular  
 SC ( ) 1068+92.05 1051255.8717 2764186.4774  
 PI ( ) 1069+10.77 1051274.5934 2764186.4014  
 CC ( ) 1051260.1353 2765236.4688  
 CS ( ) 1069+29.49 1051293.3058 2764186.9928  
 Radius: 1050.00  
 Delta: 2^02'35" Right  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 37.44  
 Tangent: 18.72  
 Chord: 37.44  
 Middle Ordinate: 0.17  
 External: 0.17  
 Tangent Direction: N 0^13'58" W  
 Radial Direction: N 89^46'02" E  
 Chord Direction: N 0^47'20" E  
 Radial Direction: S 88^11'23" E  
 Tangent Direction: N 1^48'37" E

Element: Clothoid  
 CS ( ) 1069+29.49 1051293.3058 2764186.9928  
 SPI ( ) 1069+39.49 1051303.3010 2764187.3088  
 ST ( ) 1069+59.49 1051323.2802 2764188.2261  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 1^48'37" E  
 Radial Direction: S 88^11'23" E  
 Chord Direction: N 2^21'22" E  
 Radial Direction: S 87^22'16" E  
 Tangent Direction: N 2^37'44" E

Element: Linear  
 ST ( ) 1069+59.49 1051323.2802 2764188.2261  
 TS ( ) 1069+62.41 1051326.1914 2764188.3597  
 Tangent Direction: N 2^37'44" E  
 Tangent Length: 2.91

Element: Clothoid

TS ( )	1069+62.41	1051326.1914	2764188.3597
SPI ( )	1069+82.41	1051346.1706	2764189.2771
SC ( )	1069+92.41	1051356.1527	2764189.8784
Entrance Radius:	0.00		
Exit Radius:	1050.00		
Length:	30.00		
Angle:	0^49'07"	Right	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 2^37'44"	E	
Radial Direction:	S 87^22'16"	E	
Chord Direction:	N 2^54'06"	E	
Radial Direction:	S 86^33'10"	E	
Tangent Direction:	N 3^26'50"	E	

Element: Circular

SC ( )	1069+92.41	1051356.1527	2764189.8784
PI ( )	1069+99.94	1051363.6701	2764190.3313
CC ( )		1051293.0148	2765237.9784
CS ( )	1070+07.47	1051371.1803	2764190.8919
Radius:	1050.00		
Delta:	0^49'19"	Right	
Degree of Curvature(Arc):	5^27'24"		
Length:	15.06		
Tangent:	7.53		
Chord:	15.06		
Middle Ordinate:	0.03		
External:	0.03		
Tangent Direction:	N 3^26'50"	E	
Radial Direction:	S 86^33'10"	E	
Chord Direction:	N 3^51'30"	E	
Radial Direction:	S 85^43'51"	E	
Tangent Direction:	N 4^16'09"	E	

Element: Clothoid

CS ( )	1070+07.47	1051371.1803	2764190.8919
SPI ( )	1070+17.47	1051381.1528	2764191.6363
ST ( )	1070+37.47	1051401.0742	2764193.4100
Entrance Radius:	1050.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^49'07"	Right	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 4^16'09"	E	
Radial Direction:	S 85^43'51"	E	
Chord Direction:	N 4^48'54"	E	
Radial Direction:	S 84^54'44"	E	
Tangent Direction:	N 5^05'16"	E	

Element: Linear

ST ( )	1070+37.47	1051401.0742	2764193.4100
TS ( )	1070+37.88	1051401.4852	2764193.4466
Tangent Direction:	N 5^05'16"	E	
Tangent Length:	0.41		

Element: Clothoid

TS ( )	1070+37.88	1051401.4852	2764193.4466
SPI ( )	1070+57.88	1051421.4066	2764195.2202
SC ( )	1070+67.88	1051431.3791	2764195.9647
Entrance Radius:	0.00		
Exit Radius:	1050.00		
Length:	30.00		
Angle:	0^49'07"	Left	
Constant:	177.48		

Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 5^05'16" E  
 Radial Direction: S 84^54'44" E  
 Chord Direction: N 4^48'54" E  
 Radial Direction: S 85^43'51" E  
 Tangent Direction: N 4^16'09" E

Element: Circular

SC ( ) 1070+67.88 1051431.3791 2764195.9647  
 PI ( ) 1070+75.44 1051438.9141 2764196.5272  
 CC ( ) 1051509.5446 2763148.8782  
 CS ( ) 1070+82.99 1051446.4565 2764196.9812

Radius: 1050.00  
 Delta: 0^49'29" Left

Degree of Curvature(Arc):

5^27'24"  
 Length: 15.11  
 Tangent: 7.56  
 Chord: 15.11

Middle Ordinate: 0.03  
 External: 0.03

Tangent Direction: N 4^16'09" E  
 Radial Direction: S 85^43'51" E  
 Chord Direction: N 3^51'25" E  
 Radial Direction: S 86^33'19" E  
 Tangent Direction: N 3^26'41" E

Element: Clothoid

CS ( ) 1070+82.99 1051446.4565 2764196.9812  
 SPI ( ) 1070+92.99 1051456.4387 2764197.5820  
 ST ( ) 1071+12.99 1051476.4179 2764198.4984

Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Left

Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00

Tangent Direction: N 3^26'41" E  
 Radial Direction: S 86^33'19" E  
 Chord Direction: N 2^53'56" E  
 Radial Direction: S 87^22'26" E  
 Tangent Direction: N 2^37'34" E

Element: Linear

ST ( ) 1071+12.99 1051476.4179 2764198.4984  
 TS ( ) 1074+87.85 1051850.8791 2764215.6736  
 Tangent Direction: N 2^37'34" E  
 Tangent Length: 374.85

Element: Clothoid

TS ( ) 1074+87.85 1051850.8791 2764215.6736  
 SPI ( ) 1075+14.52 1051877.5186 2764216.8955  
 SC ( ) 1075+27.85 1051890.8193 2764217.8392

Entrance Radius: 0.00  
 Exit Radius: 800.00  
 Length: 40.00  
 Angle: 1^25'57" Right

Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00

Tangent Direction: N 2^37'34" E  
 Radial Direction: S 87^22'26" E  
 Chord Direction: N 3^06'13" E

Radial Direction: S 85^56'29" E  
Tangent Direction: N 4^03'31" E

Element: Circular

SC ( ) 1075+27.85 1051890.8193 2764217.8392  
PI ( ) 1075+33.12 1051896.0787 2764218.2124  
CC ( ) 1051834.1992 2765015.8330  
CS ( ) 1075+38.39 1051901.3327 2764218.6548  
Radius: 800.00  
Delta: 0^45'19" Right  
Degree of Curvature(Arc): 7^09'43"  
Length: 10.55  
Tangent: 5.27  
Chord: 10.54  
Middle Ordinate: 0.02  
External: 0.02  
Tangent Direction: N 4^03'31" E  
Radial Direction: S 85^56'29" E  
Chord Direction: N 4^26'10" E  
Radial Direction: S 85^11'11" E  
Tangent Direction: N 4^48'49" E

Element: Clothoid

CS ( ) 1075+38.39 1051901.3327 2764218.6548  
SPI ( ) 1075+51.73 1051914.6198 2764219.7738  
ST ( ) 1075+78.39 1051941.1290 2764222.6752  
Entrance Radius: 800.00  
Exit Radius: 0.00  
Length: 40.00  
Angle: 1^25'57" Right  
Constant: 178.89  
Long Tangent: 26.67  
Short Tangent: 13.33  
Long Chord: 40.00  
Xs: 40.00  
Ys: 0.33  
P: 0.08  
K: 20.00  
Tangent Direction: N 4^48'49" E  
Radial Direction: S 85^11'11" E  
Chord Direction: N 5^46'07" E  
Radial Direction: S 83^45'14" E  
Tangent Direction: N 6^14'46" E

Element: Linear

ST ( ) 1075+78.39 1051941.1290 2764222.6752  
TS ( ) 1075+78.40 1051941.1348 2764222.6758  
Tangent Direction: N 6^14'46" E  
Tangent Length: 0.01

Element: Clothoid

TS ( ) 1075+78.40 1051941.1348 2764222.6758  
SPI ( ) 1076+05.07 1051967.6441 2764225.5773  
SC ( ) 1076+18.40 1051980.9312 2764226.6962  
Entrance Radius: 0.00  
Exit Radius: 800.00  
Length: 40.00  
Angle: 1^25'57" Left  
Constant: 178.89  
Long Tangent: 26.67  
Short Tangent: 13.33  
Long Chord: 40.00  
Xs: 40.00  
Ys: 0.33  
P: 0.08  
K: 20.00  
Tangent Direction: N 6^14'46" E  
Radial Direction: S 83^45'14" E  
Chord Direction: N 5^46'07" E  
Radial Direction: S 85^11'10" E  
Tangent Direction: N 4^48'50" E

Element: Circular

SC ( ) 1076+18.40 1051980.9312 2764226.6962  
PI ( ) 1076+23.43 1051985.9429 2764227.1183  
CC ( ) 1052048.0648 2763429.5180  
CS ( ) 1076+28.46 1051990.9595 2764227.4773  
Radius: 800.00  
Delta: 0^43'13" Left

```

Degree of Curvature(Arc):      7^09'43"
      Length:                   10.06
      Tangent:                   5.03
      Chord:                     10.06
Middle Ordinate:               0.02
      External:                  0.02
Tangent Direction:             N  4^48'50" E
Radial Direction:              S 85^11'10" E
Chord Direction:               N  4^27'13" E
Radial Direction:              S 85^54'24" E
Tangent Direction:             N  4^05'36" E

```

```

Element: Clothoid
      CS ( )                   1076+28.46  1051990.9595  2764227.4773
      SPI ( )                  1076+41.79  1052004.2596  2764228.4291
      ST ( )                   1076+68.46  1052030.8984  2764229.6672
Entrance Radius:               800.00
Exit Radius:                   0.00
Length:                        40.00
Angle:                          1^25'57" Left
Constant:                       178.89
Long Tangent:                   26.67
Short Tangent:                  13.33
Long Chord:                     40.00
      Xs:                      40.00
      Ys:                       0.33
      P:                        0.08
      K:                        20.00
Tangent Direction:             N  4^05'36" E
Radial Direction:              S 85^54'24" E
Chord Direction:               N  3^08'18" E
Radial Direction:              S 87^20'21" E
Tangent Direction:             N  2^39'39" E

```

```

Element: Linear
      ST ( )                   1076+68.46  1052030.8984  2764229.6672
      TS ( )                   1078+02.77  1052165.0678  2764235.9028
Tangent Direction:             N  2^39'39" E
Tangent Length:                134.31

```

```

Element: Clothoid
      TS ( )                   1078+02.77  1052165.0678  2764235.9028
      SPI ( )                  1078+22.77  1052185.0463  2764236.8313
      SC ( )                   1078+32.77  1052195.0348  2764237.3106
Entrance Radius:               0.00
Exit Radius:                   10000.00
Length:                        30.00
Angle:                          0^05'09" Right
Constant:                       547.72
Long Tangent:                   20.00
Short Tangent:                  10.00
Long Chord:                     30.00
      Xs:                      30.00
      Ys:                       0.01
      P:                        0.00
      K:                        15.00
Tangent Direction:             N  2^39'39" E
Radial Direction:              S 87^20'21" E
Chord Direction:               N  2^41'23" E
Radial Direction:              S 87^15'11" E
Tangent Direction:             N  2^44'49" E

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```

Element: Circular
      SC ( )                   1078+32.77  1052195.0348  2764237.3106
      PI ( )                   1078+33.31  1052195.5704  2764237.3362
      CC ( )                   1051715.7948  2774225.8204
      CS ( )                   1078+33.84  1052196.1059  2764237.3620
      Radius:                  10000.00
      Delta:                    0^00'22" Right
Degree of Curvature(Arc):      0^34'23"
      Length:                   1.07
      Tangent:                   0.54
      Chord:                     1.07
Middle Ordinate:               0.00
      External:                  0.00
Tangent Direction:             N  2^44'49" E
Radial Direction:              S 87^15'11" E
Chord Direction:               N  2^45'00" E
Radial Direction:              S 87^14'49" E

```



Tangent Direction N 2^45'11" E

Element: Clothoid

CS ( )	1078+33.84	1052196.1059	2764237.3620
SPI ( )	1078+43.84	1052206.0944	2764237.8423
ST ( )	1078+63.84	1052226.0698	2764238.8329
Entrance Radius:	10000.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^05'09"	Right	
Constant:	547.72		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.01		
P:	0.00		
K:	15.00		
Tangent Direction:	N 2^45'11" E		
Radial Direction:	S 87^14'49" E		
Chord Direction:	N 2^48'37" E		
Radial Direction:	S 87^09'40" E		
Tangent Direction:	N 2^50'20" E		

Element: Linear

ST ( )	1078+63.84	1052226.0698	2764238.8329
TS ( )	1085+63.10	1052924.4684	2764273.4666
Tangent Direction:	N 2^50'20" E		
Tangent Length:	699.26		

Element: Clothoid

TS ( )	1085+63.10	1052924.4684	2764273.4666
SPI ( )	1085+83.10	1052944.4438	2764274.4572
SC ( )	1085+93.10	1052954.4324	2764274.9358
Entrance Radius:	0.00		
Exit Radius:	9000.00		
Length:	30.00		
Angle:	0^05'44"	Left	
Constant:	519.62		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.02		
P:	0.00		
K:	15.00		
Tangent Direction:	N 2^50'20" E		
Radial Direction:	S 87^09'40" E		
Chord Direction:	N 2^48'26" E		
Radial Direction:	S 87^15'23" E		
Tangent Direction:	N 2^44'37" E		

Element: Circular

SC ( )	1085+93.10	1052954.4324	2764274.9358
PI ( )	1085+93.49	1052954.8193	2764274.9544
CC ( )		1053385.2141	2755285.2514
CS ( )	1085+93.88	1052955.2062	2764274.9729
Radius:	9000.00		
Delta:	0^00'18"	Left	
Degree of Curvature(Arc):	0^38'12"		
Length:	0.77		
Tangent:	0.39		
Chord:	0.77		
Middle Ordinate:	0.00		
External:	0.00		
Tangent Direction:	N 2^44'37" E		
Radial Direction:	S 87^15'23" E		
Chord Direction:	N 2^44'28" E		
Radial Direction:	S 87^15'41" E		
Tangent Direction:	N 2^44'19" E		

Element: Clothoid

CS ( )	1085+93.88	1052955.2062	2764274.9729
SPI ( )	1086+03.88	1052965.1948	2764275.4507
ST ( )	1086+23.88	1052985.1735	2764276.3730
Entrance Radius:	9000.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^05'44"	Left	

Constant 519.62  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.02  
 P: 0.00  
 K: 15.00  
 Tangent Direction: N 2^44'19" E  
 Radial Direction: S 87^15'41" E  
 Chord Direction: N 2^40'30" E  
 Radial Direction: S 87^21'25" E  
 Tangent Direction: N 2^38'35" E

Element: Linear

ST ( ) 1086+23.88 1052985.1735 2764276.3730  
 TS ( ) 1088+70.27 1053231.3088 2764287.7353  
 Tangent Direction: N 2^38'35" E  
 Tangent Length: 246.40

Element: Clothoid

TS ( ) 1088+70.27 1053231.3088 2764287.7353  
 SPI ( ) 1088+90.27 1053251.2877 2764288.6576  
 SC ( ) 1089+00.27 1053261.2828 2764288.9760  
 Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 2^38'35" E  
 Radial Direction: S 87^21'25" E  
 Chord Direction: N 2^22'13" E  
 Radial Direction: S 88^10'32" E  
 Tangent Direction: N 1^49'28" E

Element: Circular

SC ( ) 1089+00.27 1053261.2828 2764288.9760  
 PI ( ) 1089+18.04 1053279.0366 2764289.5415  
 CC ( ) 1053294.7139 2763239.5083  
 CS ( ) 1089+35.80 1053296.7994 2764289.5062  
 Radius: 1050.00  
 Delta: 1^56'18" Left  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 35.52  
 Tangent: 17.76  
 Chord: 35.52  
 Middle Ordinate: 0.15  
 External: 0.15  
 Tangent Direction: N 1^49'28" E  
 Radial Direction: S 88^10'32" E  
 Chord Direction: N 0^51'19" E  
 Radial Direction: N 89^53'10" E  
 Tangent Direction: N 0^06'50" W

Element: Clothoid

CS ( ) 1089+35.80 1053296.7994 2764289.5062  
 SPI ( ) 1089+45.80 1053306.7995 2764289.4864  
 ST ( ) 1089+65.80 1053326.7971 2764289.1609  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 0^06'50" W  
 Radial Direction: N 89^53'10" E

Chord Direction: N 0^39'34" W  
Radial Direction: N 89^04'04" E  
Tangent Direction: N 0^55'56" W

Element: Linear  
ST ( ) 1089+65.80 1053326.7971 2764289.1609  
TS ( ) 1089+66.46 1053327.4646 2764289.1501  
Tangent Direction: N 0^55'56" W  
Tangent Length: 0.67

Element: Clothoid  
TS ( ) 1089+66.46 1053327.4646 2764289.1501  
SPI ( ) 1089+86.46 1053347.4621 2764288.8247  
SC ( ) 1089+96.46 1053357.4623 2764288.8048  
Entrance Radius: 0.00  
Exit Radius: 1050.00  
Length: 30.00  
Angle: 0^49'07" Right  
Constant: 177.48  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.14  
P: 0.04  
K: 15.00  
Tangent Direction: N 0^55'56" W  
Radial Direction: N 89^04'04" E  
Chord Direction: N 0^39'34" W  
Radial Direction: N 89^53'10" E  
Tangent Direction: N 0^06'50" W

Element: Circular  
SC ( ) 1089+96.46 1053357.4623 2764288.8048  
PI ( ) 1090+14.23 1053375.2251 2764288.7695  
CC ( ) 1053359.5478 2765338.8027  
CS ( ) 1090+31.99 1053392.9789 2764289.3351  
Radius: 1050.00  
Delta: 1^56'18" Right  
Degree of Curvature(Arc): 5^27'24"  
Length: 35.52  
Tangent: 17.76  
Chord: 35.52  
Middle Ordinate: 0.15  
External: 0.15  
Tangent Direction: N 0^06'50" W  
Radial Direction: N 89^53'10" E  
Chord Direction: N 0^51'19" E  
Radial Direction: S 88^10'32" E  
Tangent Direction: N 1^49'28" E

Element: Clothoid  
CS ( ) 1090+31.99 1053392.9789 2764289.3351  
SPI ( ) 1090+41.99 1053402.9740 2764289.6535  
ST ( ) 1090+61.99 1053422.9529 2764290.5757  
Entrance Radius: 1050.00  
Exit Radius: 0.00  
Length: 30.00  
Angle: 0^49'07" Right  
Constant: 177.48  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.14  
P: 0.04  
K: 15.00  
Tangent Direction: N 1^49'28" E  
Radial Direction: S 88^10'32" E  
Chord Direction: N 2^22'13" E  
Radial Direction: S 87^21'25" E  
Tangent Direction: N 2^38'35" E

Element: Linear  
ST ( ) 1090+61.99 1053422.9529 2764290.5757  
TS ( ) 1093+22.93 1053683.6223 2764302.6090  
Tangent Direction: N 2^38'35" E  
Tangent Length: 260.95

Element: Clothoid

TS ( )	1093+22.93	1053683.6223	2764302.6090
SPI ( )	1093+42.93	1053703.6012	2764303.5313
SC ( )	1093+52.93	1053713.5831	2764304.1351
Entrance Radius:	0.00		
Exit Radius:	1050.00		
Length:	30.00		
Angle:	0^49'07"	Right	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 2^38'35"	E	
Radial Direction:	S 87^21'25"	E	
Chord Direction:	N 2^54'57"	E	
Radial Direction:	S 86^32'18"	E	
Tangent Direction:	N 3^27'42"	E	

Element: Circular

SC ( )	1093+52.93	1053713.5831	2764304.1351
PI ( )	1093+72.65	1053733.2682	2764305.3258
CC ( )		1053650.1850	2765352.2194
CS ( )	1093+92.37	1053752.8947	2764307.2549
Radius:	1050.00		
Delta:	2^09'07"	Right	
Degree of Curvature(Arc):	5^27'24"		
Length:	39.44		
Tangent:	19.72		
Chord:	39.44		
Middle Ordinate:	0.19		
External:	0.19		
Tangent Direction:	N 3^27'42"	E	
Radial Direction:	S 86^32'18"	E	
Chord Direction:	N 4^32'15"	E	
Radial Direction:	S 84^23'11"	E	
Tangent Direction:	N 5^36'49"	E	

Element: Clothoid

CS ( )	1093+92.37	1053752.8947	2764307.2549
SPI ( )	1094+02.37	1053762.8469	2764308.2331
ST ( )	1094+22.37	1053782.7213	2764310.4737
Entrance Radius:	1050.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^49'07"	Right	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 5^36'49"	E	
Radial Direction:	S 84^23'11"	E	
Chord Direction:	N 6^09'33"	E	
Radial Direction:	S 83^34'04"	E	
Tangent Direction:	N 6^25'56"	E	

Element: Linear

ST ( )	1094+22.37	1053782.7213	2764310.4737
TS ( )	1094+22.57	1053782.9191	2764310.4960
Tangent Direction:	N 6^25'56"	E	
Tangent Length:	0.20		

Element: Clothoid

TS ( )	1094+22.57	1053782.9191	2764310.4960
SPI ( )	1094+42.57	1053802.7935	2764312.7365
SC ( )	1094+52.57	1053812.7457	2764313.7147
Entrance Radius:	0.00		
Exit Radius:	1050.00		
Length:	30.00		
Angle:	0^49'07"	Left	
Constant:	177.48		
Long Tangent:	20.00		

Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 6^25'56" E  
 Radial Direction: S 83^34'04" E  
 Chord Direction: N 6^09'33" E  
 Radial Direction: S 84^23'11" E  
 Tangent Direction: N 5^36'49" E

Element: Circular

SC ( ) 1094+52.57 1053812.7457 2764313.7147  
 PI ( ) 1094+72.30 1053832.3834 2764315.6449  
 CC ( ) 1053915.4554 2763268.7503  
 CS ( ) 1094+92.03 1053852.0798 2764316.8359  
 Radius: 1050.00  
 Delta: 2^09'12" Left  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 39.46  
 Tangent: 19.73  
 Chord: 39.46  
 Middle Ordinate: 0.19  
 External: 0.19  
 Tangent Direction: N 5^36'49" E  
 Radial Direction: S 84^23'11" E  
 Chord Direction: N 4^32'13" E  
 Radial Direction: S 86^32'23" E  
 Tangent Direction: N 3^27'37" E

Element: Clothoid

CS ( ) 1094+92.03 1053852.0798 2764316.8359  
 SPI ( ) 1095+02.03 1053862.0617 2764317.4395  
 ST ( ) 1095+22.03 1053882.0407 2764318.3613  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 3^27'37" E  
 Radial Direction: S 86^32'23" E  
 Chord Direction: N 2^54'53" E  
 Radial Direction: S 87^21'29" E  
 Tangent Direction: N 2^38'31" E

Element: Linear

ST ( ) 1095+22.03 1053882.0407 2764318.3613  
 TS ( ) 1098+10.06 1054169.7634 2764331.6373  
 Tangent Direction: N 2^38'31" E  
 Tangent Length: 288.03

Element: Clothoid

TS ( ) 1098+10.06 1054169.7634 2764331.6373  
 SPI ( ) 1098+30.06 1054189.7421 2764332.5591  
 SC ( ) 1098+40.06 1054199.7302 2764333.0483  
 Entrance Radius: 0.00  
 Exit Radius: 5300.00  
 Length: 30.00  
 Angle: 0^09'44" Right  
 Constant: 398.75  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.03  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 2^38'31" E  
 Radial Direction: S 87^21'29" E  
 Chord Direction: N 2^41'45" E  
 Radial Direction: S 87^11'46" E

Tangent Direction N 2^48'14" E

Element: Circular

SC ( ) 1098+40.06 1054199.7302 2764333.0483  
PI ( ) 1098+49.48 1054209.1423 2764333.5093  
CC ( ) 1053940.4576 2769626.7028  
CS ( ) 1098+58.90 1054218.5528 2764334.0038  
Radius: 5300.00  
Delta: 0^12'13" Right  
Degree of Curvature(Arc): 1^04'52"  
Length: 18.85  
Tangent: 9.42  
Chord: 18.85  
Middle Ordinate: 0.01  
External: 0.01

Tangent Direction: N 2^48'14" E  
Radial Direction: S 87^11'46" E  
Chord Direction: N 2^54'21" E  
Radial Direction: S 86^59'32" E  
Tangent Direction: N 3^00'28" E

Element: Clothoid

CS ( ) 1098+58.90 1054218.5528 2764334.0038  
SPI ( ) 1098+68.90 1054228.5390 2764334.5285  
ST ( ) 1098+88.90 1054248.5084 2764335.6344  
Entrance Radius: 5300.00  
Exit Radius: 0.00  
Length: 30.00  
Angle: 0^09'44" Right  
Constant: 398.75  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.03  
P: 0.01  
K: 15.00

Tangent Direction: N 3^00'28" E  
Radial Direction: S 86^59'32" E  
Chord Direction: N 3^06'57" E  
Radial Direction: S 86^49'48" E  
Tangent Direction: N 3^10'12" E

Element: Linear

ST ( ) 1098+88.90 1054248.5084 2764335.6344  
TS ( ) 1098+89.41 1054249.0129 2764335.6623  
Tangent Direction: N 3^10'12" E  
Tangent Length: 0.51

Element: Clothoid

TS ( ) 1098+89.41 1054249.0129 2764335.6623  
SPI ( ) 1099+09.41 1054268.9823 2764336.7683  
SC ( ) 1099+19.41 1054278.9686 2764337.2930  
Entrance Radius: 0.00  
Exit Radius: 5300.00  
Length: 30.00  
Angle: 0^09'44" Left  
Constant: 398.75  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.03  
P: 0.01  
K: 15.00

Tangent Direction: N 3^10'12" E  
Radial Direction: S 86^49'48" E  
Chord Direction: N 3^06'57" E  
Radial Direction: S 86^59'32" E  
Tangent Direction: N 3^00'28" E

Element: Circular

SC ( ) 1099+19.41 1054278.9686 2764337.2930  
PI ( ) 1099+26.81 1054286.3549 2764337.6811  
CC ( ) 1054557.0637 2759044.5940  
CS ( ) 1099+34.20 1054293.7422 2764338.0486  
Radius: 5300.00  
Delta: 0^09'36" Left  
Degree of Curvature(Arc): 1^04'52"

Length: 14.79  
 Tangent: 7.40  
 Chord: 14.79  
 Middle Ordinate: 0.01  
 External: 0.01  
 Tangent Direction: N 3^00'28" E  
 Radial Direction: S 86^59'32" E  
 Chord Direction: N 2^55'40" E  
 Radial Direction: S 87^09'08" E  
 Tangent Direction: N 2^50'52" E

Element: Clothoid  
 CS ( ) 1099+34.20 1054293.7422 2764338.0486  
 SPI ( ) 1099+44.20 1054303.7299 2764338.5454  
 ST ( ) 1099+64.20 1054323.7079 2764339.4825  
 Entrance Radius: 5300.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^09'44" Left  
 Constant: 398.75  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.03  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 2^50'52" E  
 Radial Direction: S 87^09'08" E  
 Chord Direction: N 2^44'23" E  
 Radial Direction: S 87^18'52" E  
 Tangent Direction: N 2^41'08" E

Element: Linear  
 ST ( ) 1099+64.20 1054323.7079 2764339.4825  
 PC ( ) 1102+33.82 1054593.0304 2764352.1159  
 Tangent Direction: N 2^41'08" E  
 Tangent Length: 269.62

Element: Circular  
 PC ( ) 1102+33.82 1054593.0304 2764352.1159  
 PI ( ) 1102+51.68 1054610.8678 2764352.9526  
 CC ( ) 1054677.3720 2762554.0930  
 PT ( ) 1102+69.53 1054628.7183 2764353.4353  
 Radius: 1800.00  
 Delta: 1^08'12" Left  
 Degree of Curvature(Arc): 3^10'59"  
 Length: 35.71  
 Tangent: 17.86  
 Chord: 35.71  
 Middle Ordinate: 0.09  
 External: 0.09  
 Tangent Direction: N 2^41'08" E  
 Radial Direction: S 87^18'52" E  
 Chord Direction: N 2^07'02" E  
 Radial Direction: S 88^27'04" E  
 Tangent Direction: N 1^32'56" E

Element: Linear  
 PT ( ) 1102+69.53 1054628.7183 2764353.4353  
 PC ( ) 1103+24.53 1054683.6949 2764354.9218  
 Tangent Direction: N 1^32'56" E  
 Tangent Length: 55.00

Element: Circular  
 PC ( ) 1103+24.53 1054683.6949 2764354.9218  
 PI ( ) 1103+40.85 1054700.0055 2764355.3629  
 CC ( ) 1054635.0412 2766154.2642  
 PT ( ) 1103+57.16 1054716.3055 2764356.0995  
 Radius: 1800.00  
 Delta: 1^02'19" Right  
 Degree of Curvature(Arc): 3^10'59"  
 Length: 32.63  
 Tangent: 16.32  
 Chord: 32.63  
 Middle Ordinate: 0.07  
 External: 0.07  
 Tangent Direction: N 1^32'56" E  
 Radial Direction: S 88^27'04" E

Chord Direction: N 2^04'06" E  
Radial Direction: S 87^24'45" E  
Tangent Direction: N 2^35'15" E

Element: Linear  
PT ( ) 1103+57.16 1054716.3055 2764356.0995  
TS ( ) 1104+84.77 1054843.7837 2764361.8606  
Tangent Direction: N 2^35'15" E  
Tangent Length: 127.61

Element: Clothoid  
TS ( ) 1104+84.77 1054843.7837 2764361.8606  
SPI ( ) 1105+04.77 1054863.7634 2764362.7636  
SC ( ) 1105+14.77 1054873.7470 2764363.3399  
Entrance Radius: 0.00  
Exit Radius: 1200.00  
Length: 30.00  
Angle: 0^42'58" Right  
Constant: 189.74  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.12  
P: 0.03  
K: 15.00  
Tangent Direction: N 2^35'15" E  
Radial Direction: S 87^24'45" E  
Chord Direction: N 2^49'35" E  
Radial Direction: S 86^41'46" E  
Tangent Direction: N 3^18'14" E

Element: Circular  
SC ( ) 1105+14.77 1054873.7470 2764363.3399  
PI ( ) 1105+18.70 1054877.6727 2764363.5665  
CC ( ) 1054804.5907 2765561.3455  
CS ( ) 1105+22.64 1054881.5969 2764363.8188  
Radius: 1200.00  
Delta: 0^22'32" Right  
Degree of Curvature(Arc): 4^46'29"  
Length: 7.86  
Tangent: 3.93  
Chord: 7.86  
Middle Ordinate: 0.01  
External: 0.01  
Tangent Direction: N 3^18'14" E  
Radial Direction: S 86^41'46" E  
Chord Direction: N 3^29'30" E  
Radial Direction: S 86^19'15" E  
Tangent Direction: N 3^40'45" E

Element: Clothoid  
CS ( ) 1105+22.64 1054881.5969 2764363.8188  
SPI ( ) 1105+32.64 1054891.5765 2764364.4606  
ST ( ) 1105+52.64 1054911.5178 2764365.9934  
Entrance Radius: 1200.00  
Exit Radius: 0.00  
Length: 30.00  
Angle: 0^42'58" Right  
Constant: 189.74  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.12  
P: 0.03  
K: 15.00  
Tangent Direction: N 3^40'45" E  
Radial Direction: S 86^19'15" E  
Chord Direction: N 4^09'24" E  
Radial Direction: S 85^36'16" E  
Tangent Direction: N 4^23'44" E

Element: Linear  
ST ( ) 1105+52.64 1054911.5178 2764365.9934  
TS ( ) 1105+52.65 1054911.5273 2764365.9941  
Tangent Direction: N 4^23'44" E  
Tangent Length: 0.01



Element: Clothoid

TS ( )	1105+52.65	1054911.5273	2764365.9941
SPI ( )	1105+72.65	1054931.4685	2764367.5269
SC ( )	1105+82.65	1054941.4452	2764368.2102
Entrance Radius:	0.00		
Exit Radius:	1800.00		
Length:	30.00		
Angle:	0^28'39"	Left	
Constant:	232.38		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.08		
P:	0.02		
K:	15.00		
Tangent Direction:	N 4^23'44"	E	
Radial Direction:	S 85^36'16"	E	
Chord Direction:	N 4^14'11"	E	
Radial Direction:	S 86^04'55"	E	
Tangent Direction:	N 3^55'05"	E	

Element: Circular

SC ( )	1105+82.65	1054941.4452	2764368.2102
PI ( )	1106+11.60	1054970.3286	2764370.1885
CC ( )		1055064.4384	2762572.4172
CS ( )	1106+40.54	1054999.2608	2764371.2368
Radius:	1800.00		
Delta:	1^50'35"	Left	
Degree of Curvature(Arc):	3^10'59"		
Length:	57.90		
Tangent:	28.95		
Chord:	57.89		
Middle Ordinate:	0.23		
External:	0.23		
Tangent Direction:	N 3^55'05"	E	
Radial Direction:	S 86^04'55"	E	
Chord Direction:	N 2^59'48"	E	
Radial Direction:	S 87^55'30"	E	
Tangent Direction:	N 2^04'30"	E	

Element: Clothoid

CS ( )	1106+40.54	1054999.2608	2764371.2368
SPI ( )	1106+50.54	1055009.2543	2764371.5989
ST ( )	1106+70.54	1055029.2466	2764372.1565
Entrance Radius:	1800.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^28'39"	Left	
Constant:	232.38		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.08		
P:	0.02		
K:	15.00		
Tangent Direction:	N 2^04'30"	E	
Radial Direction:	S 87^55'30"	E	
Chord Direction:	N 1^45'25"	E	
Radial Direction:	S 88^24'08"	E	
Tangent Direction:	N 1^35'52"	E	

Element: Linear

ST ( )	1106+70.54	1055029.2466	2764372.1565
TS ( )	1106+70.87	1055029.5765	2764372.1657
Tangent Direction:	N 1^35'52"	E	
Tangent Length:	0.33		

Element: Clothoid

TS ( )	1106+70.87	1055029.5765	2764372.1657
SPI ( )	1106+90.87	1055049.5688	2764372.7233
SC ( )	1107+00.87	1055059.5641	2764373.0284
Entrance Radius:	0.00		
Exit Radius:	5700.00		
Length:	30.00		
Angle:	0^09'03"	Right	
Constant:	413.52		
Long Tangent:	20.00		

Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.03  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 1^35'52" E  
 Radial Direction: S 88^24'08" E  
 Chord Direction: N 1^38'53" E  
 Radial Direction: S 88^15'06" E  
 Tangent Direction: N 1^44'54" E

Element: Circular

SC ( ) 1107+00.87 1055059.5641 2764373.0284  
 PI ( ) 1107+25.44 1055084.1163 2764373.7779  
 CC ( ) 1054885.6501 2770070.3746  
 CS ( ) 1107+50.00 1055108.6611 2764374.7389  
 Radius: 5700.00  
 Delta: 0^29'38" Right  
 Degree of Curvature(Arc): 1^00'19"  
 Length: 49.13  
 Tangent: 24.56  
 Chord: 49.13  
 Middle Ordinate: 0.05  
 External: 0.05  
 Tangent Direction: N 1^44'54" E  
 Radial Direction: S 88^15'06" E  
 Chord Direction: N 1^59'43" E  
 Radial Direction: S 87^45'28" E  
 Tangent Direction: N 2^14'32" E

Element: Clothoid

CS ( ) 1107+50.00 1055108.6611 2764374.7389  
 SPI ( ) 1107+60.00 1055118.6535 2764375.1302  
 ST ( ) 1107+80.00 1055138.6360 2764375.9653  
 Entrance Radius: 5700.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^09'03" Right  
 Constant: 413.52  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.03  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 2^14'32" E  
 Radial Direction: S 87^45'28" E  
 Chord Direction: N 2^20'34" E  
 Radial Direction: S 87^36'25" E  
 Tangent Direction: N 2^23'35" E

Element: Linear

ST ( ) 1107+80.00 1055138.6360 2764375.9653  
 TS ( ) 1111+57.04 1055515.3491 2764391.7083  
 Tangent Direction: N 2^23'35" E  
 Tangent Length: 377.04

Element: Clothoid

TS ( ) 1111+57.04 1055515.3491 2764391.7083  
 SPI ( ) 1111+80.38 1055538.6622 2764392.6826  
 SC ( ) 1111+92.04 1055550.3165 2764393.2201  
 Entrance Radius: 0.00  
 Exit Radius: 4050.00  
 Length: 35.00  
 Angle: 0^14'51" Right  
 Constant: 376.50  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.05  
 P: 0.01  
 K: 17.50  
 Tangent Direction: N 2^23'35" E  
 Radial Direction: S 87^36'25" E  
 Chord Direction: N 2^28'32" E  
 Radial Direction: S 87^21'34" E

Tangent Direction N 2^38'26" E

Element: Circular

SC ( ) 1111+92.04 1055550.3165 2764393.2201  
PI ( ) 1111+94.99 1055553.2594 2764393.3558  
CC ( ) 1055363.7290 2768438.9197  
CS ( ) 1111+97.93 1055556.2021 2764393.4958  
Radius: 4050.00  
Delta: 0^05'00" Right  
Degree of Curvature(Arc): 1^24'53"  
Length: 5.89  
Tangent: 2.95  
Chord: 5.89  
Middle Ordinate: 0.00  
External: 0.00  
Tangent Direction: N 2^38'26" E  
Radial Direction: S 87^21'34" E  
Chord Direction: N 2^40'56" E  
Radial Direction: S 87^16'34" E  
Tangent Direction: N 2^43'26" E

Element: Clothoid

CS ( ) 1111+97.93 1055556.2021 2764393.4958  
SPI ( ) 1112+09.60 1055567.8556 2764394.0503  
ST ( ) 1112+32.93 1055591.1576 2764395.2599  
Entrance Radius: 4050.00  
Exit Radius: 0.00  
Length: 35.00  
Angle: 0^14'51" Right  
Constant: 376.50  
Long Tangent: 23.33  
Short Tangent: 11.67  
Long Chord: 35.00  
Xs: 35.00  
Ys: 0.05  
P: 0.01  
K: 17.50  
Tangent Direction: N 2^43'26" E  
Radial Direction: S 87^16'34" E  
Chord Direction: N 2^53'20" E  
Radial Direction: S 87^01'42" E  
Tangent Direction: N 2^58'18" E

Element: Linear

ST ( ) 1112+32.93 1055591.1576 2764395.2599  
TS ( ) 1112+83.34 1055641.4995 2764397.8731  
Tangent Direction: N 2^58'18" E  
Tangent Length: 50.41

Element: Clothoid

TS ( ) 1112+83.34 1055641.4995 2764397.8731  
SPI ( ) 1113+06.68 1055664.8015 2764399.0827  
SC ( ) 1113+18.34 1055676.4550 2764399.6372  
Entrance Radius: 0.00  
Exit Radius: 4050.00  
Length: 35.00  
Angle: 0^14'51" Left  
Constant: 376.50  
Long Tangent: 23.33  
Short Tangent: 11.67  
Long Chord: 35.00  
Xs: 35.00  
Ys: 0.05  
P: 0.01  
K: 17.50  
Tangent Direction: N 2^58'18" E  
Radial Direction: S 87^01'42" E  
Chord Direction: N 2^53'20" E  
Radial Direction: S 87^16'34" E  
Tangent Direction: N 2^43'26" E

Element: Circular

SC ( ) 1113+18.34 1055676.4550 2764399.6372  
PI ( ) 1113+24.87 1055682.9776 2764399.9475  
CC ( ) 1055868.9281 2760354.2133  
CS ( ) 1113+31.40 1055689.5012 2764400.2368  
Radius: 4050.00  
Delta: 0^11'05" Left  
Degree of Curvature(Arc): 1^24'53"

Length: 13.06  
 Tangent: 6.53  
 Chord: 13.06  
 Middle Ordinate: 0.01  
 External: 0.01  
 Tangent Direction: N 2^43'26" E  
 Radial Direction: S 87^16'34" E  
 Chord Direction: N 2^37'54" E  
 Radial Direction: S 87^27'39" E  
 Tangent Direction: N 2^32'21" E

Element: Clothoid

CS ( ) 1113+31.40 1055689.5012 2764400.2368  
 SPI ( ) 1113+43.07 1055701.1564 2764400.7537  
 ST ( ) 1113+66.40 1055724.4711 2764401.6867  
 Entrance Radius: 4050.00  
 Exit Radius: 0.00  
 Length: 35.00  
 Angle: 0^14'51" Left  
 Constant: 376.50  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.05  
 P: 0.01  
 K: 17.50  
 Tangent Direction: N 2^32'21" E  
 Radial Direction: S 87^27'39" E  
 Chord Direction: N 2^22'27" E  
 Radial Direction: S 87^42'30" E  
 Tangent Direction: N 2^17'30" E

Element: Linear

ST ( ) 1113+66.40 1055724.4711 2764401.6867  
 TS ( ) 1117+16.06 1056073.8478 2764415.6680  
 Tangent Direction: N 2^17'30" E  
 Tangent Length: 349.66

Element: Clothoid

TS ( ) 1117+16.06 1056073.8478 2764415.6680  
 SPI ( ) 1117+39.39 1056097.1625 2764416.6010  
 SC ( ) 1117+51.06 1056108.8180 2764417.1100  
 Entrance Radius: 0.00  
 Exit Radius: 4800.00  
 Length: 35.00  
 Angle: 0^12'32" Right  
 Constant: 409.88  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.04  
 P: 0.01  
 K: 17.50  
 Tangent Direction: N 2^17'30" E  
 Radial Direction: S 87^42'30" E  
 Chord Direction: N 2^21'41" E  
 Radial Direction: S 87^29'58" E  
 Tangent Direction: N 2^30'02" E

Element: Circular

SC ( ) 1117+51.06 1056108.8180 2764417.1100  
 PI ( ) 1117+53.47 1056111.2227 2764417.2150  
 CC ( ) 1055899.4015 2769212.5395  
 CS ( ) 1117+55.87 1056113.6273 2764417.3224  
 Radius: 4800.00  
 Delta: 0^03'27" Right  
 Degree of Curvature(Arc): 1^11'37"  
 Length: 4.81  
 Tangent: 2.41  
 Chord: 4.81  
 Middle Ordinate: 0.00  
 External: 0.00  
 Tangent Direction: N 2^30'02" E  
 Radial Direction: S 87^29'58" E  
 Chord Direction: N 2^31'45" E  
 Radial Direction: S 87^26'31" E  
 Tangent Direction: N 2^33'29" E

Element: Clothoid

CS ( )	1117+55.87	1056113.6273	2764417.3224
SPI ( )	1117+67.54	1056125.2824	2764417.8431
ST ( )	1117+90.87	1056148.5885	2764418.9694
Entrance Radius:	4800.00		
Exit Radius:	0.00		
Length:	35.00		
Angle:	0°12'32"	Right	
Constant:	409.88		
Long Tangent:	23.33		
Short Tangent:	11.67		
Long Chord:	35.00		
Xs:	35.00		
Ys:	0.04		
P:	0.01		
K:	17.50		
Tangent Direction:	N 2°33'29"	E	
Radial Direction:	S 87°26'31"	E	
Chord Direction:	N 2°41'50"	E	
Radial Direction:	S 87°13'59"	E	
Tangent Direction:	N 2°46'01"	E	

Element: Linear

ST ( )	1117+90.87	1056148.5885	2764418.9694
TS ( )	1117+91.57	1056149.2811	2764419.0029
Tangent Direction:	N 2°46'01"	E	
Tangent Length:	0.69		

Element: Clothoid

TS ( )	1117+91.57	1056149.2811	2764419.0029
SPI ( )	1118+14.90	1056172.5872	2764420.1293
SC ( )	1118+26.57	1056184.2423	2764420.6500
Entrance Radius:	0.00		
Exit Radius:	4800.00		
Length:	35.00		
Angle:	0°12'32"	Left	
Constant:	409.88		
Long Tangent:	23.33		
Short Tangent:	11.67		
Long Chord:	35.00		
Xs:	35.00		
Ys:	0.04		
P:	0.01		
K:	17.50		
Tangent Direction:	N 2°46'01"	E	
Radial Direction:	S 87°13'59"	E	
Chord Direction:	N 2°41'50"	E	
Radial Direction:	S 87°26'31"	E	
Tangent Direction:	N 2°33'29"	E	

Element: Circular

SC ( )	1118+26.57	1056184.2423	2764420.6500
PI ( )	1118+37.78	1056195.4483	2764421.1506
CC ( )		1056398.4681	2759625.4328
CS ( )	1118+49.00	1056206.6565	2764421.5988
Radius:	4800.00		
Delta:	0°16'04"	Left	
Degree of Curvature(Arc):	1°11'37"		
Length:	22.43		
Tangent:	11.22		
Chord:	22.43		
Middle Ordinate:	0.01		
External:	0.01		
Tangent Direction:	N 2°33'29"	E	
Radial Direction:	S 87°26'31"	E	
Chord Direction:	N 2°25'27"	E	
Radial Direction:	S 87°42'35"	E	
Tangent Direction:	N 2°17'25"	E	

Element: Clothoid

CS ( )	1118+49.00	1056206.6565	2764421.5988
SPI ( )	1118+60.67	1056218.3138	2764422.0650
ST ( )	1118+84.00	1056241.6318	2764422.9124
Entrance Radius:	4800.00		
Exit Radius:	0.00		
Length:	35.00		
Angle:	0°12'32"	Left	
Constant:	409.88		

Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.04  
 P: 0.01  
 K: 17.50  
 Tangent Direction: N 2^17'25" E  
 Radial Direction: S 87^42'35" E  
 Chord Direction: N 2^09'03" E  
 Radial Direction: S 87^55'07" E  
 Tangent Direction: N 2^04'53" E

Element: Linear  
 ST ( ) 1118+84.00 1056241.6318 2764422.9124  
 PC ( ) 1120+75.57 1056433.0736 2764429.8697  
 Tangent Direction: N 2^04'53" E  
 Tangent Length: 191.57

Element: Circular  
 PC ( ) 1120+75.57 1056433.0736 2764429.8697  
 PI ( ) 1120+84.77 1056442.2662 2764430.2038  
 CC ( ) 1056498.4453 2762631.0572  
 PT ( ) 1120+93.97 1056451.4617 2764430.4439  
 Radius: 1800.00  
 Delta: 0^35'08" Left  
 Degree of Curvature(Arc): 3^10'59"  
 Length: 18.40  
 Tangent: 9.20  
 Chord: 18.40  
 Middle Ordinate: 0.02  
 External: 0.02  
 Tangent Direction: N 2^04'53" E  
 Radial Direction: S 87^55'07" E  
 Chord Direction: N 1^47'19" E  
 Radial Direction: S 88^30'15" E  
 Tangent Direction: N 1^29'45" E

Element: Linear  
 PT ( ) 1120+93.97 1056451.4617 2764430.4439  
 TS ( ) 1121+73.79 1056531.2592 2764432.5275  
 Tangent Direction: N 1^29'45" E  
 Tangent Length: 79.82

Element: Clothoid  
 TS ( ) 1121+73.79 1056531.2592 2764432.5275  
 SPI ( ) 1121+93.79 1056551.2525 2764433.0495  
 SC ( ) 1122+03.79 1056561.2474 2764433.3694  
 Entrance Radius: 0.00  
 Exit Radius: 2550.00  
 Length: 30.00  
 Angle: 0^20'13" Right  
 Constant: 276.59  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.06  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 1^29'45" E  
 Radial Direction: S 88^30'15" E  
 Chord Direction: N 1^36'29" E  
 Radial Direction: S 88^10'02" E  
 Tangent Direction: N 1^49'58" E

Element: Circular  
 SC ( ) 1122+03.79 1056561.2474 2764433.3694  
 PI ( ) 1122+04.05 1056561.5088 2764433.3777  
 CC ( ) 1056479.6937 2766982.0649  
 CS ( ) 1122+04.31 1056561.7702 2764433.3861  
 Radius: 2550.00  
 Delta: 0^00'42" Right  
 Degree of Curvature(Arc): 2^14'49"  
 Length: 0.52  
 Tangent: 0.26  
 Chord: 0.52  
 Middle Ordinate: 0.00  
 External: 0.00

Tangent Direction: N 1^49'58" E  
 Radial Direction: S 88^10'02" E  
 Chord Direction: N 1^50'19" E  
 Radial Direction: S 88^09'20" E  
 Tangent Direction: N 1^50'40" E

Element: Clothoid  
 CS ( ) 1122+04.31 1056561.7702 2764433.3861  
 SPI ( ) 1122+14.31 1056571.7651 2764433.7080  
 ST ( ) 1122+34.31 1056591.7506 2764434.4693  
 Entrance Radius: 2550.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^20'13" Right  
 Constant: 276.59  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.06  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 1^50'40" E  
 Radial Direction: S 88^09'20" E  
 Chord Direction: N 2^04'09" E  
 Radial Direction: S 87^49'07" E  
 Tangent Direction: N 2^10'53" E

Element: Linear  
 ST ( ) 1122+34.31 1056591.7506 2764434.4693  
 TS ( ) 1123+11.77 1056669.1535 2764437.4178  
 Tangent Direction: N 2^10'53" E  
 Tangent Length: 77.46

Element: Clothoid  
 TS ( ) 1123+11.77 1056669.1535 2764437.4178  
 SPI ( ) 1123+31.77 1056689.1392 2764438.1792  
 SC ( ) 1123+41.77 1056699.1355 2764438.4527  
 Entrance Radius: 0.00  
 Exit Radius: 1400.00  
 Length: 30.00  
 Angle: 0^36'50" Left  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 2^10'53" E  
 Radial Direction: S 87^49'07" E  
 Chord Direction: N 1^58'37" E  
 Radial Direction: S 88^25'56" E  
 Tangent Direction: N 1^34'04" E

Element: Circular  
 SC ( ) 1123+41.77 1056699.1355 2764438.4527  
 PI ( ) 1123+46.12 1056703.4826 2764438.5717  
 CC ( ) 1056737.4354 2763038.9767  
 CS ( ) 1123+50.47 1056707.8303 2764438.6637  
 Radius: 1400.00  
 Delta: 0^21'21" Left  
 Degree of Curvature(Arc): 4^05'33"  
 Length: 8.70  
 Tangent: 4.35  
 Chord: 8.70  
 Middle Ordinate: 0.01  
 External: 0.01  
 Tangent Direction: N 1^34'04" E  
 Radial Direction: S 88^25'56" E  
 Chord Direction: N 1^23'23" E  
 Radial Direction: S 88^47'18" E  
 Tangent Direction: N 1^12'42" E

Element: Clothoid  
 CS ( ) 1123+50.47 1056707.8303 2764438.6637  
 SPI ( ) 1123+60.47 1056717.8281 2764438.8751  
 ST ( ) 1123+80.47 1056737.8272 2764439.0838

Entrance Radius: 1400.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^36'50" Left  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 1^12'42" E  
 Radial Direction: S 88^47'18" E  
 Chord Direction: N 0^48'09" E  
 Radial Direction: S 89^24'08" E  
 Tangent Direction: N 0^35'52" E

Element: Linear  
 ST ( ) 1123+80.47 1056737.8272 2764439.0838  
 TS ( ) 1124+49.37 1056806.7217 2764439.8027  
 Tangent Direction: N 0^35'52" E  
 Tangent Length: 68.90

Element: Clothoid  
 TS ( ) 1124+49.37 1056806.7217 2764439.8027  
 SPI ( ) 1124+69.37 1056826.7207 2764440.0113  
 SC ( ) 1124+79.37 1056836.7186 2764440.2228  
 Entrance Radius: 0.00  
 Exit Radius: 1400.00  
 Length: 30.00  
 Angle: 0^36'50" Right  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 0^35'52" E  
 Radial Direction: S 89^24'08" E  
 Chord Direction: N 0^48'09" E  
 Radial Direction: S 88^47'18" E  
 Tangent Direction: N 1^12'42" E

Element: Circular  
 SC ( ) 1124+79.37 1056836.7186 2764440.2228  
 PI ( ) 1124+87.02 1056844.3720 2764440.3847  
 CC ( ) 1056807.1134 2765839.9097  
 CS ( ) 1124+94.68 1056852.0233 2764440.6303  
 Radius: 1400.00  
 Delta: 0^37'36" Right  
 Degree of Curvature(Arc): 4^05'33"  
 Length: 15.31  
 Tangent: 7.66  
 Chord: 15.31  
 Middle Ordinate: 0.02  
 External: 0.02  
 Tangent Direction: N 1^12'42" E  
 Radial Direction: S 88^47'18" E  
 Chord Direction: N 1^31'30" E  
 Radial Direction: S 88^09'42" E  
 Tangent Direction: N 1^50'18" E

Element: Clothoid  
 CS ( ) 1124+94.68 1056852.0233 2764440.6303  
 SPI ( ) 1125+04.68 1056862.0182 2764440.9510  
 ST ( ) 1125+24.68 1056882.0000 2764441.8067  
 Entrance Radius: 1400.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^36'50" Right  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11



	P:		0.03	
	K:		15.00	
Tangent Direction:	N	1^50'18"	E	
Radial Direction:	S	88^09'42"	E	
Chord Direction:	N	2^14'51"	E	
Radial Direction:	S	87^32'52"	E	
Tangent Direction:	N	2^27'08"	E	
Element: Linear				
ST ( )		1125+24.68	1056882.0000	2764441.8067
TS ( )		1131+97.76	1057554.4616	2764470.6045
Tangent Direction:	N	2^27'08"	E	
Tangent Length:		673.08		
Element: Clothoid				
TS ( )		1131+97.76	1057554.4616	2764470.6045
SPI ( )		1132+17.76	1057574.4434	2764471.4602
SC ( )		1132+27.76	1057584.4390	2764471.7632
Entrance Radius:		0.00		
Exit Radius:		1200.00		
Length:		30.00		
Angle:		0^42'58"	Left	
Constant:		189.74		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.12		
P:		0.03		
K:		15.00		
Tangent Direction:	N	2^27'08"	E	
Radial Direction:	S	87^32'52"	E	
Chord Direction:	N	2^12'48"	E	
Radial Direction:	S	88^15'51"	E	
Tangent Direction:	N	1^44'09"	E	
Element: Circular				
SC ( )		1132+27.76	1057584.4390	2764471.7632
PI ( )		1132+30.98	1057587.6629	2764471.8609
CC ( )			1057620.7913	2763272.3139
CS ( )		1132+34.21	1057590.8873	2764471.9412
Radius:		1200.00		
Delta:		0^18'29"	Left	
Degree of Curvature(Arc):		4^46'29"		
Length:		6.45		
Tangent:		3.23		
Chord:		6.45		
Middle Ordinate:		0.00		
External:		0.00		
Tangent Direction:	N	1^44'09"	E	
Radial Direction:	S	88^15'51"	E	
Chord Direction:	N	1^34'55"	E	
Radial Direction:	S	88^34'19"	E	
Tangent Direction:	N	1^25'41"	E	
Element: Clothoid				
CS ( )		1132+34.21	1057590.8873	2764471.9412
SPI ( )		1132+44.21	1057600.8843	2764472.1904
ST ( )		1132+64.21	1057620.8829	2764472.4389
Entrance Radius:		1200.00		
Exit Radius:		0.00		
Length:		30.00		
Angle:		0^42'58"	Left	
Constant:		189.74		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.12		
P:		0.03		
K:		15.00		
Tangent Direction:	N	1^25'41"	E	
Radial Direction:	S	88^34'19"	E	
Chord Direction:	N	0^57'02"	E	
Radial Direction:	S	89^17'18"	E	
Tangent Direction:	N	0^42'42"	E	
Element: Linear				
ST ( )		1132+64.21	1057620.8829	2764472.4389

TS (	)	1132+99.07	1057655.7448	2764472.8720
Tangent Direction:	N	0^42'42" E		
Tangent Length:		34.86		
Element: Clothoid				
TS (	)	1132+99.07	1057655.7448	2764472.8720
SPI (	)	1133+22.41	1057679.0763	2764473.1618
SC (	)	1133+34.07	1057690.7425	2764473.2667
Entrance Radius:		0.00		
Exit Radius:		5100.00		
Length:		35.00		
Angle:		0^11'48" Left		
Constant:		422.49		
Long Tangent:		23.33		
Short Tangent:		11.67		
Long Chord:		35.00		
Xs:		35.00		
Ys:		0.04		
P:		0.01		
K:		17.50		
Tangent Direction:	N	0^42'42" E		
Radial Direction:	S	89^17'18" E		
Chord Direction:	N	0^38'46" E		
Radial Direction:	S	89^29'05" E		
Tangent Direction:	N	0^30'55" E		
Element: Circular				
SC (	)	1133+34.07	1057690.7425	2764473.2667
PI (	)	1133+34.41	1057691.0750	2764473.2697
CC (	)		1057736.5973	2759373.4729
CS (	)	1133+34.74	1057691.4074	2764473.2727
Radius:		5100.00		
Delta:		0^00'27" Left		
Degree of Curvature(Arc):		1^07'24"		
Length:		0.66		
Tangent:		0.33		
Chord:		0.66		
Middle Ordinate:		0.00		
External:		0.00		
Tangent Direction:	N	0^30'55" E		
Radial Direction:	S	89^29'05" E		
Chord Direction:	N	0^30'41" E		
Radial Direction:	S	89^29'32" E		
Tangent Direction:	N	0^30'28" E		
Element: Clothoid				
CS (	)	1133+34.74	1057691.4074	2764473.2727
SPI (	)	1133+46.40	1057703.0737	2764473.3761
ST (	)	1133+69.74	1057726.4067	2764473.5027
Entrance Radius:		5100.00		
Exit Radius:		0.00		
Length:		35.00		
Angle:		0^11'48" Left		
Constant:		422.49		
Long Tangent:		23.33		
Short Tangent:		11.67		
Long Chord:		35.00		
Xs:		35.00		
Ys:		0.04		
P:		0.01		
K:		17.50		
Tangent Direction:	N	0^30'28" E		
Radial Direction:	S	89^29'32" E		
Chord Direction:	N	0^22'36" E		
Radial Direction:	S	89^41'20" E		
Tangent Direction:	N	0^18'40" E		
Element: Linear				
ST (	)	1133+69.74	1057726.4067	2764473.5027
TS (	)	1133+70.57	1057727.2410	2764473.5073
Tangent Direction:	N	0^18'40" E		
Tangent Length:		0.83		
Element: Clothoid				
TS (	)	1133+70.57	1057727.2410	2764473.5073
SPI (	)	1133+93.91	1057750.5740	2764473.6340
SC (	)	1134+05.57	1057762.2402	2764473.7373
Entrance Radius:		0.00		
Exit Radius:		5100.00		

Length: 35.00  
 Angle: 0^11'48" Right  
 Constant: 422.49  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.04  
 P: 0.01  
 K: 17.50  
 Tangent Direction: N 0^18'40" E  
 Radial Direction: S 89^41'20" E  
 Chord Direction: N 0^22'36" E  
 Radial Direction: S 89^29'32" E  
 Tangent Direction: N 0^30'28" E

Element: Circular

SC ( ) 1134+05.57 1057762.2402 2764473.7373  
 PI ( ) 1134+05.90 1057762.5726 2764473.7403  
 CC ( ) 1057717.0503 2769573.5371  
 CS ( ) 1134+06.24 1057762.9051 2764473.7433  
 Radius: 5100.00  
 Delta: 0^00'27" Right  
 Degree of Curvature(Arc): 1^07'24"  
 Length: 0.66  
 Tangent: 0.33  
 Chord: 0.66  
 Middle Ordinate: 0.00  
 External: 0.00  
 Tangent Direction: N 0^30'28" E  
 Radial Direction: S 89^29'32" E  
 Chord Direction: N 0^30'41" E  
 Radial Direction: S 89^29'05" E  
 Tangent Direction: N 0^30'55" E

Element: Clothoid

CS ( ) 1134+06.24 1057762.9051 2764473.7433  
 SPI ( ) 1134+17.90 1057774.5713 2764473.8482  
 ST ( ) 1134+41.24 1057797.9028 2764474.1380  
 Entrance Radius: 5100.00  
 Exit Radius: 0.00  
 Length: 35.00  
 Angle: 0^11'48" Right  
 Constant: 422.49  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.04  
 P: 0.01  
 K: 17.50  
 Tangent Direction: N 0^30'55" E  
 Radial Direction: S 89^29'05" E  
 Chord Direction: N 0^38'46" E  
 Radial Direction: S 89^17'18" E  
 Tangent Direction: N 0^42'42" E

Element: Linear

ST ( ) 1134+41.24 1057797.9028 2764474.1380  
 TS ( ) 1137+82.04 1058138.6748 2764478.3715  
 Tangent Direction: N 0^42'42" E  
 Tangent Length: 340.80

Element: Clothoid

TS ( ) 1137+82.04 1058138.6748 2764478.3715  
 SPI ( ) 1138+02.04 1058158.6734 2764478.6200  
 SC ( ) 1138+12.04 1058168.6708 2764478.8513  
 Entrance Radius: 0.00  
 Exit Radius: 1400.00  
 Length: 30.00  
 Angle: 0^36'50" Right  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00

Tangent Direction: N 0^42'42" E  
 Radial Direction: S 89^17'18" E  
 Chord Direction: N 0^54'59" E  
 Radial Direction: S 88^40'28" E  
 Tangent Direction: N 1^19'32" E

Element: Circular  
 SC ( ) 1138+12.04 1058168.6708 2764478.8513  
 PI ( ) 1138+15.40 1058172.0384 2764478.9292  
 CC ( ) 1058136.2821 2765878.4766  
 CS ( ) 1138+18.77 1058175.4055 2764479.0234  
 Radius: 1400.00  
 Delta: 0^16'33" Right  
 Degree of Curvature(Arc): 4^05'33"  
 Length: 6.74  
 Tangent: 3.37  
 Chord: 6.74  
 Middle Ordinate: 0.00  
 External: 0.00  
 Tangent Direction: N 1^19'32" E  
 Radial Direction: S 88^40'28" E  
 Chord Direction: N 1^27'49" E  
 Radial Direction: S 88^23'55" E  
 Tangent Direction: N 1^36'05" E

Element: Clothoid  
 CS ( ) 1138+18.77 1058175.4055 2764479.0234  
 SPI ( ) 1138+28.77 1058185.4017 2764479.3028  
 ST ( ) 1138+48.77 1058205.3869 2764480.0759  
 Entrance Radius: 1400.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^36'50" Right  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 1^36'05" E  
 Radial Direction: S 88^23'55" E  
 Chord Direction: N 2^00'38" E  
 Radial Direction: S 87^47'05" E  
 Tangent Direction: N 2^12'55" E

Element: Linear  
 ST ( ) 1138+48.77 1058205.3869 2764480.0759  
 TS ( ) 1138+48.77 1058205.3896 2764480.0760  
 Tangent Direction: N 2^12'55" E  
 Tangent Length: 0.00

Element: Clothoid  
 TS ( ) 1138+48.77 1058205.3896 2764480.0760  
 SPI ( ) 1138+68.77 1058225.3748 2764480.8491  
 SC ( ) 1138+78.77 1058235.3710 2764481.1285  
 Entrance Radius: 0.00  
 Exit Radius: 1400.00  
 Length: 30.00  
 Angle: 0^36'50" Left  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 2^12'55" E  
 Radial Direction: S 87^47'05" E  
 Chord Direction: N 2^00'38" E  
 Radial Direction: S 88^23'55" E  
 Tangent Direction: N 1^36'05" E

Element: Circular  
 SC ( ) 1138+78.77 1058235.3710 2764481.1285  
 PI ( ) 1138+81.29 1058237.8888 2764481.1989  
 CC ( ) 1058274.4939 2763081.6753

CS ( )	1138+83.81	1058240.4068	2764481.2603
Radius:	1400.00		
Delta:	0^12'22"	Left	
Degree of Curvature(Arc):	4^05'33"		
Length:	5.04		
Tangent:	2.52		
Chord:	5.04		
Middle Ordinate:	0.00		
External:	0.00		
Tangent Direction:	N 1^36'05"	E	
Radial Direction:	S 88^23'55"	E	
Chord Direction:	N 1^29'54"	E	
Radial Direction:	S 88^36'17"	E	
Tangent Direction:	N 1^23'43"	E	

Element: Clothoid

CS ( )	1138+83.81	1058240.4068	2764481.2603
SPI ( )	1138+93.81	1058250.4040	2764481.5037
ST ( )	1139+13.81	1058270.4022	2764481.7764
Entrance Radius:	1400.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^36'50"	Left	
Constant:	204.94		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.11		
P:	0.03		
K:	15.00		
Tangent Direction:	N 1^23'43"	E	
Radial Direction:	S 88^36'17"	E	
Chord Direction:	N 0^59'09"	E	
Radial Direction:	S 89^13'07"	E	
Tangent Direction:	N 0^46'53"	E	

Element: Linear

ST ( )	1139+13.81	1058270.4022	2764481.7764
TS ( )	1139+53.99	1058310.5788	2764482.3243
Tangent Direction:	N 0^46'53"	E	
Tangent Length:	40.18		

Element: Clothoid

TS ( )	1139+53.99	1058310.5788	2764482.3243
SPI ( )	1139+80.66	1058337.2438	2764482.6880
SC ( )	1139+93.99	1058350.5680	2764483.2030
Entrance Radius:	0.00		
Exit Radius:	800.00		
Length:	40.00		
Angle:	1^25'57"	Right	
Constant:	178.89		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.33		
P:	0.08		
K:	20.00		
Tangent Direction:	N 0^46'53"	E	
Radial Direction:	S 89^13'07"	E	
Chord Direction:	N 1^15'31"	E	
Radial Direction:	S 87^47'11"	E	
Tangent Direction:	N 2^12'49"	E	

Element: Circular

SC ( )	1139+93.99	1058350.5680	2764483.2030
PI ( )	1140+02.66	1058359.2268	2764483.5377
CC ( )		1058319.6669	2765282.6060
CS ( )	1140+11.32	1058367.8764	2764484.0599
Radius:	800.00		
Delta:	1^14'28"	Right	
Degree of Curvature(Arc):	7^09'43"		
Length:	17.33		
Tangent:	8.67		
Chord:	17.33		
Middle Ordinate:	0.05		
External:	0.05		
Tangent Direction:	N 2^12'49"	E	

Radial Direction: S 87^47'11" E  
 Chord Direction: N 2^50'03" E  
 Radial Direction: S 86^32'43" E  
 Tangent Direction: N 3^27'17" E

Element: Clothoid

CS ( ) 1140+11.32 1058367.8764 2764484.0599  
 SPI ( ) 1140+24.66 1058381.1863 2764484.8634  
 ST ( ) 1140+51.32 1058407.7569 2764487.1354  
 Entrance Radius: 800.00  
 Exit Radius: 0.00  
 Length: 40.00  
 Angle: 1^25'57" Right  
 Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 3^27'17" E  
 Radial Direction: S 86^32'43" E  
 Chord Direction: N 4^24'35" E  
 Radial Direction: S 85^06'46" E  
 Tangent Direction: N 4^53'14" E

Element: Linear

ST ( ) 1140+51.32 1058407.7569 2764487.1354  
 TS ( ) 1152+80.35 1059632.3126 2764591.8421  
 Tangent Direction: N 4^53'14" E  
 Tangent Length: 1229.02

Element: Clothoid

TS ( ) 1152+80.35 1059632.3126 2764591.8421  
 SPI ( ) 1153+00.35 1059652.2400 2764593.5460  
 SC ( ) 1153+10.35 1059662.2104 2764594.3149  
 Entrance Radius: 0.00  
 Exit Radius: 1800.00  
 Length: 30.00  
 Angle: 0^28'39" Left  
 Constant: 232.38  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.08  
 P: 0.02  
 K: 15.00  
 Tangent Direction: N 4^53'14" E  
 Radial Direction: S 85^06'46" E  
 Chord Direction: N 4^43'41" E  
 Radial Direction: S 85^35'25" E  
 Tangent Direction: N 4^24'35" E

Element: Circular

SC ( ) 1153+10.35 1059662.2104 2764594.3149  
 PI ( ) 1153+21.03 1059672.8655 2764595.1366  
 CC ( ) 1059800.6108 2762799.6435  
 CS ( ) 1153+31.72 1059683.5296 2764595.8317  
 Radius: 1800.00  
 Delta: 0^40'49" Left  
 Degree of Curvature(Arc): 3^10'59"  
 Length: 21.37  
 Tangent: 10.69  
 Chord: 21.37  
 Middle Ordinate: 0.03  
 External: 0.03  
 Tangent Direction: N 4^24'35" E  
 Radial Direction: S 85^35'25" E  
 Chord Direction: N 4^04'11" E  
 Radial Direction: S 86^16'14" E  
 Tangent Direction: N 3^43'46" E

Element: Clothoid

CS ( ) 1153+31.72 1059683.5296 2764595.8317  
 SPI ( ) 1153+41.72 1059693.5084 2764596.4821  
 ST ( ) 1153+61.72 1059713.4763 2764597.6167  
 Entrance Radius: 1800.00

Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^28'39" Left  
 Constant: 232.38  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.08  
 P: 0.02  
 K: 15.00  
 Tangent Direction: N 3^43'46" E  
 Radial Direction: S 86^16'14" E  
 Chord Direction: N 3^24'40" E  
 Radial Direction: S 86^44'53" E  
 Tangent Direction: N 3^15'07" E

Element: Linear  
 ST ( ) 1153+61.72 1059713.4763 2764597.6167  
 TS ( ) 1154+41.69 1059793.3214 2764602.1534  
 Tangent Direction: N 3^15'07" E  
 Tangent Length: 79.97

Element: Clothoid  
 TS ( ) 1154+41.69 1059793.3214 2764602.1534  
 SPI ( ) 1154+61.69 1059813.2893 2764603.2879  
 SC ( ) 1154+71.69 1059823.2682 2764603.9384  
 Entrance Radius: 0.00  
 Exit Radius: 1800.00  
 Length: 30.00  
 Angle: 0^28'39" Right  
 Constant: 232.38  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.08  
 P: 0.02  
 K: 15.00  
 Tangent Direction: N 3^15'07" E  
 Radial Direction: S 86^44'53" E  
 Chord Direction: N 3^24'40" E  
 Radial Direction: S 86^16'14" E  
 Tangent Direction: N 3^43'46" E

Element: Circular  
 SC ( ) 1154+71.69 1059823.2682 2764603.9384  
 PI ( ) 1156+43.03 1059994.2399 2764615.0829  
 CC ( ) 1059706.1870 2766400.1266  
 CS ( ) 1158+13.33 1060160.0388 2764658.2831  
 Radius: 1800.00  
 Delta: 10^52'29" Right  
 Degree of Curvature(Arc): 3^10'59"  
 Length: 341.64  
 Tangent: 171.33  
 Chord: 341.13  
 Middle Ordinate: 8.10  
 External: 8.14  
 Tangent Direction: N 3^43'46" E  
 Radial Direction: S 86^16'14" E  
 Chord Direction: N 9^10'01" E  
 Radial Direction: S 75^23'45" E  
 Tangent Direction: N 14^36'15" E

Element: Clothoid  
 CS ( ) 1158+13.33 1060160.0388 2764658.2831  
 SPI ( ) 1158+23.33 1060169.7158 2764660.8045  
 ST ( ) 1158+43.33 1060189.0269 2764666.0085  
 Entrance Radius: 1800.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^28'39" Right  
 Constant: 232.38  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.08  
 P: 0.02

K 15.00  
 Tangent Direction: N 14^36'15" E  
 Radial Direction: S 75^23'45" E  
 Chord Direction: N 14^55'21" E  
 Radial Direction: S 74^55'06" E  
 Tangent Direction: N 15^04'54" E

Element: Linear

ST ( ) 1158+43.33 1060189.0269 2764666.0085  
 TS ( ) 1159+94.61 1060335.0973 2764705.3711  
 Tangent Direction: N 15^04'54" E  
 Tangent Length: 151.28

Element: Clothoid

TS ( ) 1159+94.61 1060335.0973 2764705.3711  
 SPI ( ) 1160+14.61 1060354.4085 2764710.5750  
 SC ( ) 1160+24.61 1060364.0906 2764713.0770  
 Entrance Radius: 0.00  
 Exit Radius: 1450.00  
 Length: 30.00  
 Angle: 0^35'34" Left  
 Constant: 208.57  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.10  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 15^04'54" E  
 Radial Direction: S 74^55'06" E  
 Chord Direction: N 14^53'03" E  
 Radial Direction: S 75^30'40" E  
 Tangent Direction: N 14^29'20" E

Element: Circular

SC ( ) 1160+24.61 1060364.0906 2764713.0770  
 PI ( ) 1161+70.77 1060505.5955 2764749.6434  
 CC ( ) 1060726.8703 2763309.1927  
 CS ( ) 1163+15.94 1060651.5514 2764757.2352  
 Radius: 1450.00  
 Delta: 11^30'41" Left  
 Degree of Curvature(Arc): 3^57'05"  
 Length: 291.32  
 Tangent: 146.15  
 Chord: 290.83  
 Middle Ordinate: 7.31  
 External: 7.35  
 Tangent Direction: N 14^29'20" E  
 Radial Direction: S 75^30'40" E  
 Chord Direction: N 8^44'00" E  
 Radial Direction: S 87^01'21" E  
 Tangent Direction: N 2^58'39" E

Element: Clothoid

CS ( ) 1163+15.94 1060651.5514 2764757.2352  
 SPI ( ) 1163+25.94 1060661.5380 2764757.7547  
 ST ( ) 1163+45.94 1060681.5208 2764758.5869  
 Entrance Radius: 1450.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^35'34" Left  
 Constant: 208.57  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.10  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 2^58'39" E  
 Radial Direction: S 87^01'21" E  
 Chord Direction: N 2^34'57" E  
 Radial Direction: S 87^36'55" E  
 Tangent Direction: N 2^23'05" E

Element: Linear

ST ( ) 1163+45.94 1060681.5208 2764758.5869  
 TS ( ) 1169+11.88 1061246.9733 2764782.1361



Tangent Direction: N 2^23'05" E  
Tangent Length: 565.94

Element: Clothoid

TS ( ) 1169+11.88 1061246.9733 2764782.1361  
SPI ( ) 1169+31.88 1061266.9561 2764782.9683  
SC ( ) 1169+41.88 1061276.9503 2764783.3095  
Entrance Radius: 0.00  
Exit Radius: 2000.00  
Length: 30.00  
Angle: 0^25'47" Left  
Constant: 244.95  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.07  
P: 0.02  
K: 15.00  
Tangent Direction: N 2^23'05" E  
Radial Direction: S 87^36'55" E  
Chord Direction: N 2^14'30" E  
Radial Direction: S 88^02'42" E  
Tangent Direction: N 1^57'18" E

Element: Circular

SC ( ) 1169+41.88 1061276.9503 2764783.3095  
PI ( ) 1170+02.43 1061337.4702 2764785.3754  
CC ( ) 1061345.1823 2762784.4737  
CS ( ) 1170+62.95 1061398.0043 2764783.7761  
Radius: 2000.00  
Delta: 3^28'07" Left  
Degree of Curvature(Arc): 2^51'53"  
Length: 121.07  
Tangent: 60.56  
Chord: 121.05  
Middle Ordinate: 0.92  
External: 0.92  
Tangent Direction: N 1^57'18" E  
Radial Direction: S 88^02'42" E  
Chord Direction: N 0^13'15" E  
Radial Direction: N 88^29'12" E  
Tangent Direction: N 1^30'48" W

Element: Clothoid

CS ( ) 1170+62.95 1061398.0043 2764783.7761  
SPI ( ) 1170+72.95 1061408.0009 2764783.5120  
ST ( ) 1170+92.95 1061427.9894 2764782.8338  
Entrance Radius: 2000.00  
Exit Radius: 0.00  
Length: 30.00  
Angle: 0^25'47" Left  
Constant: 244.95  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.07  
P: 0.02  
K: 15.00  
Tangent Direction: N 1^30'48" W  
Radial Direction: N 88^29'12" E  
Chord Direction: N 1^48'00" W  
Radial Direction: N 88^03'25" E  
Tangent Direction: N 1^56'35" W

Element: Linear

ST ( ) 1170+92.95 1061427.9894 2764782.8338  
TS ( ) 1172+12.90 1061547.8643 2764778.7668  
Tangent Direction: N 1^56'35" W  
Tangent Length: 119.94

Element: Clothoid

TS ( ) 1172+12.90 1061547.8643 2764778.7668  
SPI ( ) 1172+32.90 1061567.8530 2764778.0886  
SC ( ) 1172+42.90 1061577.8512 2764777.8924  
Entrance Radius: 0.00  
Exit Radius: 1050.00  
Length: 30.00

Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 1^56'35" W  
 Radial Direction: N 88^03'25" E  
 Chord Direction: N 1^40'13" W  
 Radial Direction: N 88^52'31" E  
 Tangent Direction: N 1^07'29" W

Element: Circular

SC ( ) 1172+42.90 1061577.8512 2764777.8924  
 PI ( ) 1172+67.26 1061602.2133 2764777.4141  
 CC ( ) 1061598.4597 2765827.6901  
 CS ( ) 1172+91.62 1061626.5714 2764778.0665  
 Radius: 1050.00  
 Delta: 2^39'32" Right  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 48.72  
 Tangent: 24.37  
 Chord: 48.72  
 Middle Ordinate: 0.28  
 External: 0.28  
 Tangent Direction: N 1^07'29" W  
 Radial Direction: N 88^52'31" E  
 Chord Direction: N 0^12'17" E  
 Radial Direction: S 88^27'57" E  
 Tangent Direction: N 1^32'03" E

Element: Clothoid

CS ( ) 1172+91.62 1061626.5714 2764778.0665  
 SPI ( ) 1173+01.62 1061636.5680 2764778.3342  
 ST ( ) 1173+21.62 1061656.5514 2764779.1552  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 1^32'03" E  
 Radial Direction: S 88^27'57" E  
 Chord Direction: N 2^04'47" E  
 Radial Direction: S 87^38'50" E  
 Tangent Direction: N 2^21'10" E

Element: Linear

ST ( ) 1173+21.62 1061656.5514 2764779.1552  
 TS ( ) 1179+91.91 1062326.2736 2764806.6708  
 Tangent Direction: N 2^21'10" E  
 Tangent Length: 670.29

Element: Clothoid

TS ( ) 1179+91.91 1062326.2736 2764806.6708  
 SPI ( ) 1180+11.91 1062346.2569 2764807.4918  
 SC ( ) 1180+21.91 1062356.2418 2764808.0451  
 Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 2^21'10" E

Radial Direction: S 87^38'50" E  
 Chord Direction: N 2^37'32" E  
 Radial Direction: S 86^49'44" E  
 Tangent Direction: N 3^10'16" E

Element: Circular

SC ( ) 1180+21.91 1062356.2418 2764808.0451  
 PI ( ) 1180+36.79 1062371.0996 2764808.8682  
 CC ( ) 1062298.1564 2765856.4372  
 CS ( ) 1180+51.67 1062385.9281 2764810.1121  
 Radius: 1050.00  
 Delta: 1^37'26" Right  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 29.76  
 Tangent: 14.88  
 Chord: 29.76  
 Middle Ordinate: 0.11  
 External: 0.11  
 Tangent Direction: N 3^10'16" E  
 Radial Direction: S 86^49'44" E  
 Chord Direction: N 3^58'59" E  
 Radial Direction: S 85^12'18" E  
 Tangent Direction: N 4^47'42" E

Element: Clothoid

CS ( ) 1180+51.67 1062385.9281 2764810.1121  
 SPI ( ) 1180+61.67 1062395.8933 2764810.9481  
 ST ( ) 1180+81.67 1062415.7976 2764812.9045  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 4^47'42" E  
 Radial Direction: S 85^12'18" E  
 Chord Direction: N 5^20'27" E  
 Radial Direction: S 84^23'11" E  
 Tangent Direction: N 5^36'49" E

Element: Linear

ST ( ) 1180+81.67 1062415.7976 2764812.9045  
 PC ( ) 1181+26.12 1062460.0406 2764817.2531  
 Tangent Direction: N 5^36'49" E  
 Tangent Length: 44.46

Element: Circular

PC ( ) 1181+26.12 1062460.0406 2764817.2531  
 PI ( ) 1181+45.43 1062479.2571 2764819.1419  
 CC ( ) 1062528.5138 2764120.6102  
 PT ( ) 1181+64.73 1062498.5485 2764819.9685  
 Radius: 700.00  
 Delta: 3^09'36" Left  
 Degree of Curvature(Arc): 8^11'06"  
 Length: 38.61  
 Tangent: 19.31  
 Chord: 38.60  
 Middle Ordinate: 0.27  
 External: 0.27  
 Tangent Direction: N 5^36'49" E  
 Radial Direction: S 84^23'11" E  
 Chord Direction: N 4^02'01" E  
 Radial Direction: S 87^32'48" E  
 Tangent Direction: N 2^27'12" E

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Project Name: KCSC South Extension
Description: KCSC South Extension
Horizontal Alignment Name: NB Alignment
Description: NB Alignment
Style: KCSC Horizontal Alignment NB

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	STATION	NORTHING	EASTING
Element: Circular			
PC ( )	2001+76.99	1044686.9883	2764812.3671
PI ( )	2001+87.09	1044697.0812	2764812.6578
CC ( )		1044684.6266	2764894.3531
PT ( )	2001+97.08	1044706.8023	2764815.3878
Radius:	82.02		
Delta:	14^02'10"	Right	
Degree of Curvature(Arc):	69^51'21"		
Length:	20.09		
Tangent:	10.10		
Chord:	20.04		
Middle Ordinate:	0.61		
External:	0.62		
Tangent Direction:	N 1^39'00"	E	
Radial Direction:	S 88^21'00"	E	
Chord Direction:	N 8^40'05"	E	
Radial Direction:	S 74^18'49"	E	
Tangent Direction:	N 15^41'11"	E	
Element: Linear			
PT ( )	2001+97.08	1044706.8023	2764815.3878
PC ( )	2002+31.17	1044739.6241	2764824.6051
Tangent Direction:	N 15^41'11"	E	
Tangent Length:	34.09		
Element: Circular			
PC ( )	2002+31.17	1044739.6241	2764824.6051
PI ( )	2002+45.51	1044753.4290	2764828.4819
CC ( )		1044761.7998	2764745.6398
PT ( )	2002+59.57	1044767.7304	2764827.4451
Radius:	82.02		
Delta:	19^49'58"	Left	
Degree of Curvature(Arc):	69^51'21"		
Length:	28.39		
Tangent:	14.34		
Chord:	28.25		
Middle Ordinate:	1.23		
External:	1.24		
Tangent Direction:	N 15^41'11"	E	
Radial Direction:	S 74^18'49"	E	
Chord Direction:	N 5^46'12"	E	
Radial Direction:	N 85^51'13"	E	
Tangent Direction:	N 4^08'47"	W	
Element: Linear			
PT ( )	2002+59.57	1044767.7304	2764827.4451
TS ( )	2003+49.85	1044857.7745	2764820.9173
Tangent Direction:	N 4^08'47"	W	
Tangent Length:	90.28		
Element: Clothoid			
TS ( )	2003+49.85	1044857.7745	2764820.9173
SPI ( )	2003+83.18	1044891.0207	2764818.5070
SC ( )	2003+99.85	1044907.6332	2764817.1634
Entrance Radius:	0.00		
Exit Radius:	3000.00		
Length:	50.00		
Angle:	0^28'39"	Left	
Constant:	387.30		
Long Tangent:	33.33		
Short Tangent:	16.67		
Long Chord:	50.00		
Xs:	50.00		
Ys:	0.14		
P:	0.03		
K:	25.00		
Tangent Direction:	N 4^08'47"	W	
Radial Direction:	N 85^51'13"	E	
Chord Direction:	N 4^18'20"	W	
Radial Direction:	N 85^22'34"	E	
Tangent Direction:	N 4^37'26"	W	

Element: Circular

SC ( )	2003+99.85	1044907.6332	2764817.1634
PI ( )	2004+23.75	1044931.4550	2764815.2368
CC ( )		1044665.7871	2761826.9276
CS ( )	2004+47.64	1044955.2430	2764812.9308
Radius:	3000.00		
Delta:	0°54'46"	Left	
Degree of Curvature(Arc):	1°54'35"		
Length:	47.80		
Tangent:	23.90		
Chord:	47.80		
Middle Ordinate:	0.10		
External:	0.10		
Tangent Direction:	N 4°37'26"	W	
Radial Direction:	N 85°22'34"	E	
Chord Direction:	N 5°04'49"	W	
Radial Direction:	N 84°27'47"	E	
Tangent Direction:	N 5°32'13"	W	

Element: Clothoid

CS ( )	2004+47.64	1044955.2430	2764812.9308
SPI ( )	2004+64.31	1044971.8320	2764811.3227
ST ( )	2004+97.64	1045004.9820	2764807.8302
Entrance Radius:	3000.00		
Exit Radius:	0.00		
Length:	50.00		
Angle:	0°28'39"	Left	
Constant:	387.30		
Long Tangent:	33.33		
Short Tangent:	16.67		
Long Chord:	50.00		
Xs:	50.00		
Ys:	0.14		
P:	0.03		
K:	25.00		
Tangent Direction:	N 5°32'13"	W	
Radial Direction:	N 84°27'47"	E	
Chord Direction:	N 5°51'18"	W	
Radial Direction:	N 83°59'09"	E	
Tangent Direction:	N 6°00'51"	W	

Element: Linear

ST ( )	2004+97.64	1045004.9820	2764807.8302
TS ( )	2005+83.22	1045090.0846	2764798.8641
Tangent Direction:	N 6°00'51"	W	
Tangent Length:	85.57		

Element: Clothoid

TS ( )	2005+83.22	1045090.0846	2764798.8641
SPI ( )	2006+03.22	1045109.9745	2764796.7685
SC ( )	2006+13.22	1045119.9143	2764795.6727
Entrance Radius:	0.00		
Exit Radius:	3100.00		
Length:	30.00		
Angle:	0°16'38"	Left	
Constant:	304.96		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.05		
P:	0.01		
K:	15.00		
Tangent Direction:	N 6°00'51"	W	
Radial Direction:	N 83°59'09"	E	
Chord Direction:	N 6°06'24"	W	
Radial Direction:	N 83°42'31"	E	
Tangent Direction:	N 6°17'29"	W	

Element: Circular

SC ( )	2006+13.22	1045119.9143	2764795.6727
PI ( )	2007+38.11	1045244.0505	2764781.9865
CC ( )		1044780.1942	2761714.3434
CS ( )	2008+62.86	1045366.6835	2764758.3589
Radius:	3100.00		
Delta:	4°36'50"	Left	
Degree of Curvature(Arc):	1°50'54"		
Length:	249.64		
Tangent:	124.89		

Chord 249.57  
 Middle Ordinate: 2.51  
 External: 2.51  
 Tangent Direction: N 6^17'29" W  
 Radial Direction: N 83^42'31" E  
 Chord Direction: N 8^35'55" W  
 Radial Direction: N 79^05'40" E  
 Tangent Direction: N 10^54'20" W

Element: Clothoid

CS ( ) 2008+62.86 1045366.6835 2764758.3589  
 SPI ( ) 2008+72.86 1045376.5029 2764756.4670  
 ST ( ) 2008+92.86 1045396.1232 2764752.5882  
 Entrance Radius: 3100.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^16'38" Left  
 Constant: 304.96  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.05  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 10^54'20" W  
 Radial Direction: N 79^05'40" E  
 Chord Direction: N 11^05'25" W  
 Radial Direction: N 78^49'02" E  
 Tangent Direction: N 11^10'58" W

Element: Linear

ST ( ) 2008+92.86 1045396.1232 2764752.5882  
 TS ( ) 2009+06.55 1045409.5490 2764749.9340  
 Tangent Direction: N 11^10'58" W  
 Tangent Length: 13.69

Element: Clothoid

TS ( ) 2009+06.55 1045409.5490 2764749.9340  
 SPI ( ) 2009+26.55 1045429.1695 2764746.0552  
 SC ( ) 2009+36.55 1045438.9511 2764743.9758  
 Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 11^10'58" W  
 Radial Direction: N 78^49'02" E  
 Chord Direction: N 11^27'20" W  
 Radial Direction: N 77^59'55" E  
 Tangent Direction: N 12^00'05" W

Element: Circular

SC ( ) 2009+36.55 1045438.9511 2764743.9758  
 PI ( ) 2009+61.00 1045462.8730 2764738.8905  
 CC ( ) 1045220.6211 2763716.9257  
 CS ( ) 2009+85.45 1045486.5321 2764732.6970  
 Radius: 1050.00  
 Delta: 2^40'07" Left  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 48.90  
 Tangent: 24.46  
 Chord: 48.90  
 Middle Ordinate: 0.28  
 External: 0.28  
 Tangent Direction: N 12^00'05" W  
 Radial Direction: N 77^59'55" E  
 Chord Direction: N 13^20'08" W  
 Radial Direction: N 75^19'49" E  
 Tangent Direction: N 14^40'11" W

Element: Clothoid

CS ( )	2009+85.45	1045486.5321	2764732.6970
SPI ( )	2009+95.45	1045496.2063	2764730.1644
ST ( )	2010+15.45	1045515.4802	2764724.8235
Entrance Radius:	1050.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^49'07"	Left	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 14^40'11"	W	
Radial Direction:	N 75^19'49"	E	
Chord Direction:	N 15^12'56"	W	
Radial Direction:	N 74^30'42"	E	
Tangent Direction:	N 15^29'18"	W	

Element: Linear

ST ( )	2010+15.45	1045515.4802	2764724.8235
TS ( )	2010+16.62	1045516.6091	2764724.5107
Tangent Direction:	N 15^29'18"	W	
Tangent Length:	1.17		

Element: Clothoid

TS ( )	2010+16.62	1045516.6091	2764724.5107
SPI ( )	2010+44.62	1045543.5926	2764717.0334
SC ( )	2010+58.62	1045557.0308	2764713.1062
Entrance Radius:	0.00		
Exit Radius:	1500.00		
Length:	42.00		
Angle:	0^48'08"	Left	
Constant:	251.00		
Long Tangent:	28.00		
Short Tangent:	14.00		
Long Chord:	42.00		
Xs:	42.00		
Ys:	0.20		
P:	0.05		
K:	21.00		
Tangent Direction:	N 15^29'18"	W	
Radial Direction:	N 74^30'42"	E	
Chord Direction:	N 15^45'21"	W	
Radial Direction:	N 73^42'34"	E	
Tangent Direction:	N 16^17'26"	W	

Element: Circular

SC ( )	2010+58.62	1045557.0308	2764713.1062
PI ( )	2011+16.50	1045612.5845	2764696.8712
CC ( )		1045136.2698	2763273.3284
CS ( )	2011+74.32	1045666.7220	2764676.4038
Radius:	1500.00		
Delta:	4^25'10"	Left	
Degree of Curvature(Arc):	3^49'11"		
Length:	115.70		
Tangent:	57.88		
Chord:	115.67		
Middle Ordinate:	1.12		
External:	1.12		
Tangent Direction:	N 16^17'26"	W	
Radial Direction:	N 73^42'34"	E	
Chord Direction:	N 18^30'01"	W	
Radial Direction:	N 69^17'25"	E	
Tangent Direction:	N 20^42'35"	W	

Element: Clothoid

CS ( )	2011+74.32	1045666.7220	2764676.4038
SPI ( )	2011+88.32	1045679.8176	2764671.4528
ST ( )	2012+16.32	1045705.8674	2764661.1852
Entrance Radius:	1500.00		
Exit Radius:	0.00		
Length:	42.00		
Angle:	0^48'08"	Left	
Constant:	251.00		
Long Tangent:	28.00		
Short Tangent:	14.00		

Long Chord 42.00  
 Xs: 42.00  
 Ys: 0.20  
 P: 0.05  
 K: 21.00  
 Tangent Direction: N 20^42'35" W  
 Radial Direction: N 69^17'25" E  
 Chord Direction: N 21^14'40" W  
 Radial Direction: N 68^29'17" E  
 Tangent Direction: N 21^30'43" W

Element: Linear  
 ST ( ) 2012+16.32 1045705.8674 2764661.1852  
 TS ( ) 2012+74.61 1045760.1001 2764639.8094  
 Tangent Direction: N 21^30'43" W  
 Tangent Length: 58.29

Element: Clothoid  
 TS ( ) 2012+74.61 1045760.1001 2764639.8094  
 SPI ( ) 2013+01.28 1045784.9100 2764630.0305  
 SC ( ) 2013+14.61 1045797.1891 2764624.8324  
 Entrance Radius: 0.00  
 Exit Radius: 800.00  
 Length: 40.00  
 Angle: 1^25'57" Left  
 Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 21^30'43" W  
 Radial Direction: N 68^29'17" E  
 Chord Direction: N 21^59'22" W  
 Radial Direction: N 67^03'20" E  
 Tangent Direction: N 22^56'40" W

Element: Circular  
 SC ( ) 2013+14.61 1045797.1891 2764624.8324  
 PI ( ) 2013+53.70 1045833.1895 2764609.5924  
 CC ( ) 1045485.3199 2763888.1251  
 CS ( ) 2013+92.74 1045867.5325 2764590.9150  
 Radius: 800.00  
 Delta: 5^35'43" Left  
 Degree of Curvature(Arc): 7^09'43"  
 Length: 78.12  
 Tangent: 39.09  
 Chord: 78.09  
 Middle Ordinate: 0.95  
 External: 0.95  
 Tangent Direction: N 22^56'40" W  
 Radial Direction: N 67^03'20" E  
 Chord Direction: N 25^44'31" W  
 Radial Direction: N 61^27'38" E  
 Tangent Direction: N 28^32'22" W

Element: Clothoid  
 CS ( ) 2013+92.74 1045867.5325 2764590.9150  
 SPI ( ) 2014+06.07 1045879.2464 2764584.5444  
 ST ( ) 2014+32.74 1045902.3477 2764571.2219  
 Entrance Radius: 800.00  
 Exit Radius: 0.00  
 Length: 40.00  
 Angle: 1^25'57" Left  
 Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 28^32'22" W  
 Radial Direction: N 61^27'38" E  
 Chord Direction: N 29^29'40" W  
 Radial Direction: N 60^01'41" E  
 Tangent Direction: N 29^58'19" W



Element: Linear  
 ST ( ) 2014+32.74 1045902.3477 2764571.2219  
 TS ( ) 2014+73.62 1045937.7611 2764550.7990  
 Tangent Direction: N 29°58'19" W  
 Tangent Length: 40.88

Element: Clothoid  
 TS ( ) 2014+73.62 1045937.7611 2764550.7990  
 SPI ( ) 2015+00.28 1045960.8624 2764537.4765  
 SC ( ) 2015+13.62 1045972.5763 2764531.1059  
 Entrance Radius: 0.00  
 Exit Radius: 800.00  
 Length: 40.00  
 Angle: 1°25'57" Right  
 Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 29°58'19" W  
 Radial Direction: N 60°01'41" E  
 Chord Direction: N 29°29'40" W  
 Radial Direction: N 61°27'38" E  
 Tangent Direction: N 28°32'22" W

Element: Circular  
 SC ( ) 2015+13.62 1045972.5763 2764531.1059  
 PI ( ) 2015+47.81 1046002.6126 2764514.7707  
 CC ( ) 1046354.7889 2765233.8957  
 CS ( ) 2015+81.96 1046033.9332 2764501.0577  
 Radius: 800.00  
 Delta: 4°53'40" Right  
 Degree of Curvature(Arc): 7°09'43"  
 Length: 68.34  
 Tangent: 34.19  
 Chord: 68.32  
 Middle Ordinate: 0.73  
 External: 0.73  
 Tangent Direction: N 28°32'22" W  
 Radial Direction: N 61°27'38" E  
 Chord Direction: N 26°05'32" W  
 Radial Direction: N 66°21'18" E  
 Tangent Direction: N 23°38'42" W

Element: Clothoid  
 CS ( ) 2015+81.96 1046033.9332 2764501.0577  
 SPI ( ) 2015+95.29 1046046.1479 2764495.7098  
 ST ( ) 2016+21.96 1046070.8364 2764485.6282  
 Entrance Radius: 800.00  
 Exit Radius: 0.00  
 Length: 40.00  
 Angle: 1°25'57" Right  
 Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 23°38'42" W  
 Radial Direction: N 66°21'18" E  
 Chord Direction: N 22°41'24" W  
 Radial Direction: N 67°47'14" E  
 Tangent Direction: N 22°12'46" W

Element: Linear  
 ST ( ) 2016+21.96 1046070.8364 2764485.6282  
 TS ( ) 2019+59.10 1046382.9597 2764358.1725  
 Tangent Direction: N 22°12'46" W  
 Tangent Length: 337.14

Element: Clothoid  
 TS ( ) 2019+59.10 1046382.9597 2764358.1725  
 SPI ( ) 2019+82.43 1046404.5626 2764349.3510

SC ( ) 2019+94.10 1046415.4993 2764345.2859  
 Entrance Radius: 0.00  
 Exit Radius: 550.00  
 Length: 35.00  
 Angle: 1^49'23" Right  
 Constant: 138.74  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.37  
 P: 0.09  
 K: 17.50  
 Tangent Direction: N 22^12'46" W  
 Radial Direction: N 67^47'14" E  
 Chord Direction: N 21^36'18" W  
 Radial Direction: N 69^36'37" E  
 Tangent Direction: N 20^23'23" W

Element: Circular

SC ( ) 2019+94.10 1046415.4993 2764345.2859  
 PI ( ) 2020+04.16 1046424.9264 2764341.7820  
 CC ( ) 1046607.1206 2764860.8257  
 CS ( ) 2020+14.21 1046434.4752 2764338.6250

Radius: 550.00  
 Delta: 2^05'43" Right  
 Degree of Curvature(Arc): 10^25'03"  
 Length: 20.11  
 Tangent: 10.06  
 Chord: 20.11  
 Middle Ordinate: 0.09  
 External: 0.09  
 Tangent Direction: N 20^23'23" W  
 Radial Direction: N 69^36'37" E  
 Chord Direction: N 19^20'31" W  
 Radial Direction: N 71^42'20" E  
 Tangent Direction: N 18^17'40" W

Element: Clothoid

CS ( ) 2020+14.21 1046434.4752 2764338.6250  
 SPI ( ) 2020+25.88 1046445.5533 2764334.9625  
 ST ( ) 2020+49.21 1046467.9302 2764328.3463

Entrance Radius: 550.00  
 Exit Radius: 0.00  
 Length: 35.00  
 Angle: 1^49'23" Right  
 Constant: 138.74  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.37  
 P: 0.09  
 K: 17.50  
 Tangent Direction: N 18^17'40" W  
 Radial Direction: N 71^42'20" E  
 Chord Direction: N 17^04'45" W  
 Radial Direction: N 73^31'43" E  
 Tangent Direction: N 16^28'17" W

Element: Linear

ST ( ) 2020+49.21 1046467.9302 2764328.3463  
 TS ( ) 2020+49.21 1046467.9311 2764328.3460  
 Tangent Direction: N 16^28'17" W  
 Tangent Length: 0.00

Element: Clothoid

TS ( ) 2020+49.21 1046467.9311 2764328.3460  
 SPI ( ) 2020+72.55 1046490.3081 2764321.7298  
 SC ( ) 2020+84.21 1046501.3861 2764318.0673

Entrance Radius: 0.00  
 Exit Radius: 550.00  
 Length: 35.00  
 Angle: 1^49'23" Left  
 Constant: 138.74  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00

Ys: 0.37  
 P: 0.09  
 K: 17.50  
 Tangent Direction: N 16^28'17" W  
 Radial Direction: N 73^31'43" E  
 Chord Direction: N 17^04'45" W  
 Radial Direction: N 71^42'20" E  
 Tangent Direction: N 18^17'40" W

Element: Circular

SC ( ) 2020+84.21 1046501.3861 2764318.0673  
 PI ( ) 2020+94.27 1046510.9350 2764314.9103  
 CC ( ) 1046328.7408 2763795.8666  
 CS ( ) 2021+04.33 1046520.3620 2764311.4064  
 Radius: 550.00  
 Delta: 2^05'43" Left  
 Degree of Curvature(Arc): 10^25'03"  
 Length: 20.11  
 Tangent: 10.06  
 Chord: 20.11  
 Middle Ordinate: 0.09  
 External: 0.09  
 Tangent Direction: N 18^17'40" W  
 Radial Direction: N 71^42'20" E  
 Chord Direction: N 19^20'31" W  
 Radial Direction: N 69^36'37" E  
 Tangent Direction: N 20^23'23" W

Element: Clothoid

CS ( ) 2021+04.33 1046520.3620 2764311.4064  
 SPI ( ) 2021+15.99 1046531.2987 2764307.3413  
 ST ( ) 2021+39.33 1046552.9016 2764298.5198  
 Entrance Radius: 550.00  
 Exit Radius: 0.00  
 Length: 35.00  
 Angle: 1^49'23" Left  
 Constant: 138.74  
 Long Tangent: 23.33  
 Short Tangent: 11.67  
 Long Chord: 35.00  
 Xs: 35.00  
 Ys: 0.37  
 P: 0.09  
 K: 17.50  
 Tangent Direction: N 20^23'23" W  
 Radial Direction: N 69^36'37" E  
 Chord Direction: N 21^36'18" W  
 Radial Direction: N 67^47'14" E  
 Tangent Direction: N 22^12'46" W

Element: Linear

ST ( ) 2021+39.33 1046552.9016 2764298.5198  
 TS ( ) 2023+85.41 1046780.7247 2764205.4881  
 Tangent Direction: N 22^12'46" W  
 Tangent Length: 246.09

Element: Clothoid

TS ( ) 2023+85.41 1046780.7247 2764205.4881  
 SPI ( ) 2024+05.41 1046799.2406 2764197.9271  
 SC ( ) 2024+15.41 1046808.5517 2764194.2792  
 Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 22^12'46" W  
 Radial Direction: N 67^47'14" E  
 Chord Direction: N 21^56'23" W  
 Radial Direction: N 68^36'21" E  
 Tangent Direction: N 21^23'39" W

Element: Circular

SC ( )	2024+15.41	1046808.5517	2764194.2792
PI ( )	2024+24.24	1046816.7699	2764191.0595
CC ( )		1047191.5726	2765171.9269
CS ( )	2024+33.06	1046825.0410	2764187.9784
Radius:	1050.00		
Delta:	0^57'48"	Right	
Degree of Curvature(Arc):	5^27'24"		
Length:	17.65		
Tangent:	8.83		
Chord:	17.65		
Middle Ordinate:	0.04		
External:	0.04		
Tangent Direction:	N 21^23'39"	W	
Radial Direction:	N 68^36'21"	E	
Chord Direction:	N 20^54'45"	W	
Radial Direction:	N 69^34'09"	E	
Tangent Direction:	N 20^25'51"	W	
Element: Clothoid			
CS ( )	2024+33.06	1046825.0410	2764187.9784
SPI ( )	2024+43.06	1046834.4122	2764184.4876
ST ( )	2024+63.06	1046853.2521	2764177.7744
Entrance Radius:	1050.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^49'07"	Right	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 20^25'51"	W	
Radial Direction:	N 69^34'09"	E	
Chord Direction:	N 19^53'07"	W	
Radial Direction:	N 70^23'15"	E	
Tangent Direction:	N 19^36'45"	W	
Element: Linear			
ST ( )	2024+63.06	1046853.2521	2764177.7744
TS ( )	2025+80.72	1046964.0781	2764138.2840
Tangent Direction:	N 19^36'45"	W	
Tangent Length:	117.65		
Element: Clothoid			
TS ( )	2025+80.72	1046964.0781	2764138.2840
SPI ( )	2026+07.38	1046989.1985	2764129.3329
SC ( )	2026+20.72	1047001.8670	2764125.1726
Entrance Radius:	0.00		
Exit Radius:	800.00		
Length:	40.00		
Angle:	1^25'57"	Right	
Constant:	178.89		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.33		
P:	0.08		
K:	20.00		
Tangent Direction:	N 19^36'45"	W	
Radial Direction:	N 70^23'15"	E	
Chord Direction:	N 19^08'06"	W	
Radial Direction:	N 71^49'12"	E	
Tangent Direction:	N 18^10'48"	W	
Element: Circular			
SC ( )	2026+20.72	1047001.8670	2764125.1726
PI ( )	2026+94.72	1047072.1778	2764102.0828
CC ( )		1047251.4698	2764885.2374
CS ( )	2027+68.31	1047145.5311	2764092.2828
Radius:	800.00		
Delta:	10^34'13"	Right	
Degree of Curvature(Arc):	7^09'43"		
Length:	147.59		
Tangent:	74.01		
Chord:	147.38		

Middle Ordinate: 3.40  
 External: 3.42  
 Tangent Direction: N 18^10'48" W  
 Radial Direction: N 71^49'12" E  
 Chord Direction: N 12^53'41" W  
 Radial Direction: N 82^23'25" E  
 Tangent Direction: N 7^36'35" W

Element: Clothoid

CS ( ) 2027+68.31 1047145.5311 2764092.2828  
 SPI ( ) 2027+81.64 1047158.7478 2764090.5170  
 ST ( ) 2028+08.31 1047185.2605 2764087.6475  
 Entrance Radius: 800.00  
 Exit Radius: 0.00  
 Length: 40.00  
 Angle: 1^25'57" Right  
 Constant: 178.89  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.33  
 P: 0.08  
 K: 20.00  
 Tangent Direction: N 7^36'35" W  
 Radial Direction: N 82^23'25" E  
 Chord Direction: N 6^39'17" W  
 Radial Direction: N 83^49'22" E  
 Tangent Direction: N 6^10'38" W

Element: Linear

ST ( ) 2028+08.31 1047185.2605 2764087.6475  
 TS ( ) 2029+74.17 1047350.1614 2764069.7997  
 Tangent Direction: N 6^10'38" W  
 Tangent Length: 165.86

Element: Clothoid

TS ( ) 2029+74.17 1047350.1614 2764069.7997  
 SPI ( ) 2030+07.51 1047383.3038 2764066.2126  
 SC ( ) 2030+24.17 1047399.9327 2764065.0575  
 Entrance Radius: 0.00  
 Exit Radius: 650.00  
 Length: 50.00  
 Angle: 2^12'13" Right  
 Constant: 180.28  
 Long Tangent: 33.34  
 Short Tangent: 16.67  
 Long Chord: 50.00  
 Xs: 49.99  
 Ys: 0.64  
 P: 0.16  
 K: 25.00  
 Tangent Direction: N 6^10'38" W  
 Radial Direction: N 83^49'22" E  
 Chord Direction: N 5^26'34" W  
 Radial Direction: N 86^01'35" E  
 Tangent Direction: N 3^58'25" W

Element: Circular

SC ( ) 2030+24.17 1047399.9327 2764065.0575  
 PI ( ) 2030+48.38 1047424.0811 2764063.3801  
 CC ( ) 1047444.9753 2764713.4950  
 CS ( ) 2030+72.56 1047448.2874 2764063.5035  
 Radius: 650.00  
 Delta: 4^15'56" Right  
 Degree of Curvature(Arc): 8^48'53"  
 Length: 48.39  
 Tangent: 24.21  
 Chord: 48.38  
 Middle Ordinate: 0.45  
 External: 0.45  
 Tangent Direction: N 3^58'25" W  
 Radial Direction: N 86^01'35" E  
 Chord Direction: N 1^50'27" W  
 Radial Direction: S 89^42'29" E  
 Tangent Direction: N 0^17'31" E

Element: Clothoid

CS ( ) 2030+72.56 1047448.2874 2764063.5035

SPI ( )	2030+89.23	1047464.9562	2764063.5884
ST ( )	2031+22.56	1047498.2605	2764065.0399
Entrance Radius:	650.00		
Exit Radius:	0.00		
Length:	50.00		
Angle:	2^12'13"	Right	
Constant:	180.28		
Long Tangent:	33.34		
Short Tangent:	16.67		
Long Chord:	50.00		
Xs:	49.99		
Ys:	0.64		
P:	0.16		
K:	25.00		
Tangent Direction:	N 0^17'31"	E	
Radial Direction:	S 89^42'29"	E	
Chord Direction:	N 1^45'40"	E	
Radial Direction:	S 87^30'16"	E	
Tangent Direction:	N 2^29'44"	E	
Element: Linear			
ST ( )	2031+22.56	1047498.2605	2764065.0399
PC ( )	2038+72.43	1048247.4171	2764097.6916
Tangent Direction:	N 2^29'44"	E	
Tangent Length:	749.87		
Element: Circular			
PC ( )	2038+72.43	1048247.4171	2764097.6916
PI ( )	2038+83.84	1048258.8160	2764098.1884
CC ( )		1048169.0392	2765895.9844
PT ( )	2038+95.25	1048270.2078	2764098.8297
Radius:	1800.00		
Delta:	0^43'35"	Right	
Degree of Curvature(Arc):	3^10'59"		
Length:	22.82		
Tangent:	11.41		
Chord:	22.82		
Middle Ordinate:	0.04		
External:	0.04		
Tangent Direction:	N 2^29'44"	E	
Radial Direction:	S 87^30'16"	E	
Chord Direction:	N 2^51'32"	E	
Radial Direction:	S 86^46'41"	E	
Tangent Direction:	N 3^13'19"	E	
Element: Linear			
PT ( )	2038+95.25	1048270.2078	2764098.8297
PC ( )	2039+36.46	1048311.3597	2764101.1463
Tangent Direction:	N 3^13'19"	E	
Tangent Length:	41.22		
Element: Circular			
PC ( )	2039+36.46	1048311.3597	2764101.1463
PI ( )	2039+48.59	1048323.4664	2764101.8279
CC ( )		1048412.5283	2762303.9917
PT ( )	2039+60.72	1048335.5812	2764102.3462
Radius:	1800.00		
Delta:	0^46'19"	Left	
Degree of Curvature(Arc):	3^10'59"		
Length:	24.25		
Tangent:	12.13		
Chord:	24.25		
Middle Ordinate:	0.04		
External:	0.04		
Tangent Direction:	N 3^13'19"	E	
Radial Direction:	S 86^46'41"	E	
Chord Direction:	N 2^50'10"	E	
Radial Direction:	S 87^33'00"	E	
Tangent Direction:	N 2^27'00"	E	
Element: Linear			
PT ( )	2039+60.72	1048335.5812	2764102.3462
TS ( )	2040+85.91	1048460.6612	2764107.6981
Tangent Direction:	N 2^27'00"	E	
Tangent Length:	125.19		
Element: Clothoid			
TS ( )	2040+85.91	1048460.6612	2764107.6981
SPI ( )	2041+05.91	1048480.6429	2764108.5530

SC ( )	2041+15.91	1048490.6350	2764108.9506
Entrance Radius:	0.00		
Exit Radius:	5000.00		
Length:	30.00		
Angle:	0°10'19"	Left	
Constant:	387.30		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.03		
P:	0.01		
K:	15.00		
Tangent Direction:	N 2°27'00"	E	
Radial Direction:	S 87°33'00"	E	
Chord Direction:	N 2°23'34"	E	
Radial Direction:	S 87°43'19"	E	
Tangent Direction:	N 2°16'41"	E	

Element: Circular

SC ( )	2041+15.91	1048490.6350	2764108.9506
PI ( )	2041+20.59	1048495.3109	2764109.1366
CC ( )		1048689.3897	2759112.9025
CS ( )	2041+25.27	1048499.9872	2764109.3138

Radius:	5000.00	
Delta:	0°06'26"	Left

Degree of Curvature(Arc):

Length:	9.36
Tangent:	4.68
Chord:	9.36

Middle Ordinate:	0.00
External:	0.00

Tangent Direction:	N 2°16'41"	E
Radial Direction:	S 87°43'19"	E
Chord Direction:	N 2°13'28"	E
Radial Direction:	S 87°49'45"	E
Tangent Direction:	N 2°10'15"	E

Element: Clothoid

CS ( )	2041+25.27	1048499.9872	2764109.3138
SPI ( )	2041+35.27	1048509.9800	2764109.6926
ST ( )	2041+55.27	1048529.9678	2764110.3903

Entrance Radius:	5000.00	
Exit Radius:	0.00	
Length:	30.00	
Angle:	0°10'19"	Left
Constant:	387.30	
Long Tangent:	20.00	
Short Tangent:	10.00	
Long Chord:	30.00	
Xs:	30.00	
Ys:	0.03	
P:	0.01	
K:	15.00	

Tangent Direction:	N 2°10'15"	E
Radial Direction:	S 87°49'45"	E
Chord Direction:	N 2°03'23"	E
Radial Direction:	S 88°00'04"	E
Tangent Direction:	N 1°59'56"	E

Element: Linear

ST ( )	2041+55.27	1048529.9678	2764110.3903
TS ( )	2041+96.43	1048571.1050	2764111.8261
Tangent Direction:	N 1°59'56"	E	
Tangent Length:	41.16		

Element: Clothoid

TS ( )	2041+96.43	1048571.1050	2764111.8261
SPI ( )	2042+16.43	1048591.0928	2764112.5238
SC ( )	2042+26.43	1048601.0857	2764112.9026

Entrance Radius:	0.00	
Exit Radius:	5000.00	
Length:	30.00	
Angle:	0°10'19"	Right
Constant:	387.30	
Long Tangent:	20.00	
Short Tangent:	10.00	
Long Chord:	30.00	
Xs:	30.00	

Ys: 0.03  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 1^59'56" E  
 Radial Direction: S 88^00'04" E  
 Chord Direction: N 2^03'23" E  
 Radial Direction: S 87^49'45" E  
 Tangent Direction: N 2^10'15" E

Element: Circular

SC ( ) 2042+26.43 1048601.0857 2764112.9026  
 PI ( ) 2042+31.11 1048605.7619 2764113.0799  
 CC ( ) 1048411.6831 2769109.3140  
 CS ( ) 2042+35.79 1048610.4378 2764113.2659  
 Radius: 5000.00  
 Delta: 0^06'26" Right  
 Degree of Curvature(Arc): 1^08'45"  
 Length: 9.36  
 Tangent: 4.68  
 Chord: 9.36  
 Middle Ordinate: 0.00  
 External: 0.00  
 Tangent Direction: N 2^10'15" E  
 Radial Direction: S 87^49'45" E  
 Chord Direction: N 2^13'28" E  
 Radial Direction: S 87^43'19" E  
 Tangent Direction: N 2^16'41" E

Element: Clothoid

CS ( ) 2042+35.79 1048610.4378 2764113.2659  
 SPI ( ) 2042+45.79 1048620.4299 2764113.6634  
 ST ( ) 2042+65.79 1048640.4117 2764114.5184  
 Entrance Radius: 5000.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^10'19" Right  
 Constant: 387.30  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.03  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 2^16'41" E  
 Radial Direction: S 87^43'19" E  
 Chord Direction: N 2^23'34" E  
 Radial Direction: S 87^33'00" E  
 Tangent Direction: N 2^27'00" E

Element: Linear

ST ( ) 2042+65.79 1048640.4117 2764114.5184  
 TS ( ) 2049+86.58 1049360.5379 2764145.3308  
 Tangent Direction: N 2^27'00" E  
 Tangent Length: 720.79

Element: Clothoid

TS ( ) 2049+86.58 1049360.5379 2764145.3308  
 SPI ( ) 2050+13.24 1049387.1803 2764146.4707  
 SC ( ) 2050+26.58 1049400.5043 2764146.9706  
 Entrance Radius: 0.00  
 Exit Radius: 3800.00  
 Length: 40.00  
 Angle: 0^18'06" Left  
 Constant: 389.87  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.07  
 P: 0.02  
 K: 20.00  
 Tangent Direction: N 2^27'00" E  
 Radial Direction: S 87^33'00" E  
 Chord Direction: N 2^20'58" E  
 Radial Direction: S 87^51'05" E  
 Tangent Direction: N 2^08'55" E

Element: Circular



SC ( )	2050+26.58	1049400.5043	2764146.9706
PI ( )	2050+51.11	1049425.0202	2764147.8903
CC ( )		1049542.9642	2760349.6419
CS ( )	2050+75.64	1049449.5460	2764148.4934
Radius:	3800.00		
Delta:	0^44'23"	Left	
Degree of Curvature(Arc):	1^30'28"		
Length:	49.07		
Tangent:	24.53		
Chord:	49.07		
Middle Ordinate:	0.08		
External:	0.08		
Tangent Direction:	N 2^08'55"	E	
Radial Direction:	S 87^51'05"	E	
Chord Direction:	N 1^46'43"	E	
Radial Direction:	S 88^35'29"	E	
Tangent Direction:	N 1^24'31"	E	
Element: Clothoid			
CS ( )	2050+75.64	1049449.5460	2764148.4934
SPI ( )	2050+88.97	1049462.8754	2764148.8212
ST ( )	2051+15.64	1049489.5371	2764149.3365
Entrance Radius:	3800.00		
Exit Radius:	0.00		
Length:	40.00		
Angle:	0^18'06"	Left	
Constant:	389.87		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.07		
P:	0.02		
K:	20.00		
Tangent Direction:	N 1^24'31"	E	
Radial Direction:	S 88^35'29"	E	
Chord Direction:	N 1^12'28"	E	
Radial Direction:	S 88^53'34"	E	
Tangent Direction:	N 1^06'26"	E	
Element: Linear			
ST ( )	2051+15.64	1049489.5371	2764149.3365
TS ( )	2051+91.56	1049565.4370	2764150.8033
Tangent Direction:	N 1^06'26"	E	
Tangent Length:	75.91		
Element: Clothoid			
TS ( )	2051+91.56	1049565.4370	2764150.8033
SPI ( )	2052+11.56	1049585.4333	2764151.1897
SC ( )	2052+21.56	1049595.4297	2764151.4579
Entrance Radius:	0.00		
Exit Radius:	2000.00		
Length:	30.00		
Angle:	0^25'47"	Right	
Constant:	244.95		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.07		
P:	0.02		
K:	15.00		
Tangent Direction:	N 1^06'26"	E	
Radial Direction:	S 88^53'34"	E	
Chord Direction:	N 1^15'01"	E	
Radial Direction:	S 88^27'47"	E	
Tangent Direction:	N 1^32'13"	E	
Element: Circular			
SC ( )	2052+21.56	1049595.4297	2764151.4579
PI ( )	2052+33.50	1049607.3659	2764151.7781
CC ( )		1049541.7901	2766150.7385
CS ( )	2052+45.44	1049619.2974	2764152.2409
Radius:	2000.00		
Delta:	0^41'03"	Right	
Degree of Curvature(Arc):	2^51'53"		
Length:	23.88		
Tangent:	11.94		
Chord:	23.88		

Middle Ordinate: 0.04  
 External: 0.04  
 Tangent Direction: N 1^32'13" E  
 Radial Direction: S 88^27'47" E  
 Chord Direction: N 1^52'44" E  
 Radial Direction: S 87^46'44" E  
 Tangent Direction: N 2^13'16" E

Element: Clothoid  
 CS ( ) 2052+45.44 1049619.2974 2764152.2409  
 SPI ( ) 2052+55.44 1049629.2900 2764152.6284  
 ST ( ) 2052+75.44 1049649.2686 2764153.5534  
 Entrance Radius: 2000.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^25'47" Right  
 Constant: 244.95  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.07  
 P: 0.02  
 K: 15.00  
 Tangent Direction: N 2^13'16" E  
 Radial Direction: S 87^46'44" E  
 Chord Direction: N 2^30'27" E  
 Radial Direction: S 87^20'57" E  
 Tangent Direction: N 2^39'03" E

Element: Linear  
 ST ( ) 2052+75.44 1049649.2686 2764153.5534  
 TS ( ) 2054+32.17 1049805.8349 2764160.8018  
 Tangent Direction: N 2^39'03" E  
 Tangent Length: 156.73

Element: Clothoid  
 TS ( ) 2054+32.17 1049805.8349 2764160.8018  
 SPI ( ) 2054+52.17 1049825.8135 2764161.7268  
 SC ( ) 2054+62.17 1049835.8068 2764162.0956  
 Entrance Radius: 0.00  
 Exit Radius: 1600.00  
 Length: 30.00  
 Angle: 0^32'14" Left  
 Constant: 219.09  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.09  
 P: 0.02  
 K: 15.00  
 Tangent Direction: N 2^39'03" E  
 Radial Direction: S 87^20'57" E  
 Chord Direction: N 2^28'18" E  
 Radial Direction: S 87^53'11" E  
 Tangent Direction: N 2^06'49" E

Element: Circular  
 SC ( ) 2054+62.17 1049835.8068 2764162.0956  
 PI ( ) 2054+64.49 1049838.1283 2764162.1812  
 CC ( ) 1049894.8149 2762563.1840  
 CS ( ) 2054+66.82 1049840.4499 2764162.2602  
 Radius: 1600.00  
 Delta: 0^09'59" Left  
 Degree of Curvature(Arc): 3^34'52"  
 Length: 4.65  
 Tangent: 2.32  
 Chord: 4.65  
 Middle Ordinate: 0.00  
 External: 0.00  
 Tangent Direction: N 2^06'49" E  
 Radial Direction: S 87^53'11" E  
 Chord Direction: N 2^01'49" E  
 Radial Direction: S 88^03'10" E  
 Tangent Direction: N 1^56'50" E

Element: Clothoid  
 CS ( ) 2054+66.82 1049840.4499 2764162.2602

SPI ( )	2054+76.82	1049850.4442	2764162.6000
ST ( )	2054+96.82	1049870.4383	2764163.0921
Entrance Radius:	1600.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^32'14"	Left	
Constant:	219.09		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.09		
P:	0.02		
K:	15.00		
Tangent Direction:	N 1^56'50"	E	
Radial Direction:	S 88^03'10"	E	
Chord Direction:	N 1^35'21"	E	
Radial Direction:	S 88^35'24"	E	
Tangent Direction:	N 1^24'36"	E	

Element: Linear

ST ( )	2054+96.82	1049870.4383	2764163.0921
TS ( )	2055+37.30	1049910.9080	2764164.0882
Tangent Direction:	N 1^24'36"	E	
Tangent Length:	40.48		

Element: Clothoid

TS ( )	2055+37.30	1049910.9080	2764164.0882
SPI ( )	2055+57.30	1049930.9020	2764164.5804
SC ( )	2055+67.30	1049940.8963	2764164.9202
Entrance Radius:	0.00		
Exit Radius:	1600.00		
Length:	30.00		
Angle:	0^32'14"	Right	
Constant:	219.09		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.09		
P:	0.02		
K:	15.00		
Tangent Direction:	N 1^24'36"	E	
Radial Direction:	S 88^35'24"	E	
Chord Direction:	N 1^35'21"	E	
Radial Direction:	S 88^03'10"	E	
Tangent Direction:	N 1^56'50"	E	

Element: Circular

SC ( )	2055+67.30	1049940.8963	2764164.9202
PI ( )	2055+69.49	1049943.0905	2764164.9948
CC ( )		1049886.5314	2765763.9963
CS ( )	2055+71.69	1049945.2844	2764165.0754
Radius:	1600.00		
Delta:	0^09'26"	Right	
Degree of Curvature(Arc):	3^34'52"		
Length:	4.39		
Tangent:	2.20		
Chord:	4.39		
Middle Ordinate:	0.00		
External:	0.00		
Tangent Direction:	N 1^56'50"	E	
Radial Direction:	S 88^03'10"	E	
Chord Direction:	N 2^01'33"	E	
Radial Direction:	S 87^53'44"	E	
Tangent Direction:	N 2^06'16"	E	

Element: Clothoid

CS ( )	2055+71.69	1049945.2844	2764165.0754
SPI ( )	2055+81.69	1049955.2777	2764165.4426
ST ( )	2056+01.69	1049975.2566	2764166.3643
Entrance Radius:	1600.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^32'14"	Right	
Constant:	219.09		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		

	Xs:	30.00		
	Ys:	0.09		
	P:	0.02		
	K:	15.00		
Tangent Direction:	N	2^06'16"	E	
Radial Direction:	S	87^53'44"	E	
Chord Direction:	N	2^27'45"	E	
Radial Direction:	S	87^21'30"	E	
Tangent Direction:	N	2^38'30"	E	
Element: Linear				
ST ( )		2056+01.69	1049975.2566	2764166.3643
TS ( )		2061+15.61	1050488.6283	2764190.0496
Tangent Direction:	N	2^38'30"	E	
Tangent Length:		513.92		
Element: Clothoid				
TS ( )		2061+15.61	1050488.6283	2764190.0496
SPI ( )		2061+35.61	1050508.6071	2764190.9713
SC ( )		2061+45.61	1050518.5978	2764191.4010
Entrance Radius:		0.00		
Exit Radius:		4800.00		
Length:		30.00		
Angle:		0^10'45"	Left	
Constant:		379.47		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.03		
P:		0.01		
K:		15.00		
Tangent Direction:	N	2^38'30"	E	
Radial Direction:	S	87^21'30"	E	
Chord Direction:	N	2^34'55"	E	
Radial Direction:	S	87^32'15"	E	
Tangent Direction:	N	2^27'45"	E	
Element: Circular				
SC ( )		2061+45.61	1050518.5978	2764191.4010
PI ( )		2061+49.49	1050522.4800	2764191.5679
CC ( )			1050724.8330	2759395.8335
CS ( )		2061+53.38	1050526.3625	2764191.7286
Radius:		4800.00		
Delta:		0^05'34"	Left	
Degree of Curvature(Arc):		1^11'37"		
Length:		7.77		
Tangent:		3.89		
Chord:		7.77		
Middle Ordinate:		0.00		
External:		0.00		
Tangent Direction:	N	2^27'45"	E	
Radial Direction:	S	87^32'15"	E	
Chord Direction:	N	2^24'58"	E	
Radial Direction:	S	87^37'49"	E	
Tangent Direction:	N	2^22'11"	E	
Element: Clothoid				
CS ( )		2061+53.38	1050526.3625	2764191.7286
SPI ( )		2061+63.38	1050536.3540	2764192.1421
ST ( )		2061+83.38	1050556.3393	2764192.9066
Entrance Radius:		4800.00		
Exit Radius:		0.00		
Length:		30.00		
Angle:		0^10'45"	Left	
Constant:		379.47		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.03		
P:		0.01		
K:		15.00		
Tangent Direction:	N	2^22'11"	E	
Radial Direction:	S	87^37'49"	E	
Chord Direction:	N	2^15'01"	E	
Radial Direction:	S	87^48'34"	E	
Tangent Direction:	N	2^11'26"	E	

Element: Linear  
 ST ( ) 2061+83.38 1050556.3393 2764192.9066  
 TS ( ) 2061+83.39 1050556.3487 2764192.9070  
 Tangent Direction: N 2^11'27" E  
 Tangent Length: 0.01

Element: Clothoid  
 TS ( ) 2061+83.39 1050556.3487 2764192.9070  
 SPI ( ) 2062+03.39 1050576.3341 2764193.6715  
 SC ( ) 2062+13.39 1050586.3256 2764194.0849  
 Entrance Radius: 0.00  
 Exit Radius: 4800.00  
 Length: 30.00  
 Angle: 0^10'45" Right  
 Constant: 379.47  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.03  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 2^11'27" E  
 Radial Direction: S 87^48'33" E  
 Chord Direction: N 2^15'01" E  
 Radial Direction: S 87^37'49" E  
 Tangent Direction: N 2^22'11" E

Element: Circular  
 SC ( ) 2062+13.39 1050586.3256 2764194.0849  
 PI ( ) 2062+18.58 1050591.5134 2764194.2996  
 CC ( ) 1050387.8548 2768989.9800  
 CS ( ) 2062+23.77 1050596.7008 2764194.5255  
 Radius: 4800.00  
 Delta: 0^07'26" Right  
 Degree of Curvature(Arc): 1^11'37"  
 Length: 10.38  
 Tangent: 5.19  
 Chord: 10.38  
 Middle Ordinate: 0.00  
 External: 0.00  
 Tangent Direction: N 2^22'11" E  
 Radial Direction: S 87^37'49" E  
 Chord Direction: N 2^25'54" E  
 Radial Direction: S 87^30'23" E  
 Tangent Direction: N 2^29'37" E

Element: Clothoid  
 CS ( ) 2062+23.77 1050596.7008 2764194.5255  
 SPI ( ) 2062+33.77 1050606.6913 2764194.9606  
 ST ( ) 2062+53.77 1050626.6696 2764195.8933  
 Entrance Radius: 4800.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^10'45" Right  
 Constant: 379.47  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.03  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 2^29'37" E  
 Radial Direction: S 87^30'23" E  
 Chord Direction: N 2^36'47" E  
 Radial Direction: S 87^19'38" E  
 Tangent Direction: N 2^40'22" E

Element: Linear  
 ST ( ) 2062+53.77 1050626.6696 2764195.8933  
 TS ( ) 2068+22.09 1051194.3677 2764222.3947  
 Tangent Direction: N 2^40'22" E  
 Tangent Length: 568.32

Element: Clothoid  
 TS ( ) 2068+22.09 1051194.3677 2764222.3947  
 SPI ( ) 2068+42.09 1051214.3461 2764223.3273  
 SC ( ) 2068+52.09 1051224.3278 2764223.9363

Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 2^40'22" E  
 Radial Direction: S 87^19'38" E  
 Chord Direction: N 2^56'44" E  
 Radial Direction: S 86^30'31" E  
 Tangent Direction: N 3^29'29" E

Element: Circular

SC ( ) 2068+52.09 1051224.3278 2764223.9363  
 PI ( ) 2068+70.12 1051242.3271 2764225.0344  
 CC ( ) 1051160.3866 2765271.9876  
 CS ( ) 2068+88.15 1051260.2782 2764226.7500

Radius: 1050.00  
 Delta: 1^58'04" Right

Degree of Curvature(Arc):

5^27'24"

Length: 36.06  
 Tangent: 18.03  
 Chord: 36.06

Middle Ordinate: 0.15  
 External: 0.15

Tangent Direction: N 3^29'29" E  
 Radial Direction: S 86^30'31" E  
 Chord Direction: N 4^28'31" E  
 Radial Direction: S 84^32'27" E  
 Tangent Direction: N 5^27'33" E

Element: Clothoid

CS ( ) 2068+88.15 1051260.2782 2764226.7500  
 SPI ( ) 2068+98.15 1051270.2330 2764227.7013  
 ST ( ) 2069+18.15 1051290.1133 2764229.8883

Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Right

Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00

Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00

Tangent Direction: N 5^27'33" E  
 Radial Direction: S 84^32'27" E  
 Chord Direction: N 6^00'17" E  
 Radial Direction: S 83^43'21" E  
 Tangent Direction: N 6^16'39" E

Element: Linear

ST ( ) 2069+18.15 1051290.1133 2764229.8883  
 TS ( ) 2069+18.62 1051290.5809 2764229.9397  
 Tangent Direction: N 6^16'39" E  
 Tangent Length: 0.47

Element: Clothoid

TS ( ) 2069+18.62 1051290.5809 2764229.9397  
 SPI ( ) 2069+38.62 1051310.4611 2764232.1266  
 SC ( ) 2069+48.62 1051320.4160 2764233.0780

Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Left

Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00

Xs: 30.00  
 Ys: 0.14

P: 0.04  
 K: 15.00  
 Tangent Direction: N 6^16'39" E  
 Radial Direction: S 83^43'21" E  
 Chord Direction: N 6^00'17" E  
 Radial Direction: S 84^32'27" E  
 Tangent Direction: N 5^27'33" E

Element: Circular

SC ( ) 2069+48.62 1051320.4160 2764233.0780  
 PI ( ) 2069+67.09 1051338.8025 2764234.8352  
 CC ( ) 1051420.3075 2763187.8404  
 CS ( ) 2069+85.56 1051357.2395 2764235.9446  
 Radius: 1050.00  
 Delta: 2^00'56" Left  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 36.94  
 Tangent: 18.47  
 Chord: 36.93  
 Middle Ordinate: 0.16  
 External: 0.16  
 Tangent Direction: N 5^27'33" E  
 Radial Direction: S 84^32'27" E  
 Chord Direction: N 4^27'05" E  
 Radial Direction: S 86^33'23" E  
 Tangent Direction: N 3^26'37" E

Element: Clothoid

CS ( ) 2069+85.56 1051357.2395 2764235.9446  
 SPI ( ) 2069+95.56 1051367.2217 2764236.5452  
 ST ( ) 2070+15.56 1051387.2009 2764237.4612  
 Entrance Radius: 1050.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^49'07" Left  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 3^26'37" E  
 Radial Direction: S 86^33'23" E  
 Chord Direction: N 2^53'52" E  
 Radial Direction: S 87^22'30" E  
 Tangent Direction: N 2^37'30" E

Element: Linear

ST ( ) 2070+15.56 1051387.2009 2764237.4612  
 TS ( ) 2073+75.83 1051747.0943 2764253.9614  
 Tangent Direction: N 2^37'30" E  
 Tangent Length: 360.27

Element: Clothoid

TS ( ) 2073+75.83 1051747.0943 2764253.9614  
 SPI ( ) 2074+02.50 1051773.7331 2764255.1827  
 SC ( ) 2074+15.83 1051787.0556 2764255.7194  
 Entrance Radius: 0.00  
 Exit Radius: 3600.00  
 Length: 40.00  
 Angle: 0^19'06" Left  
 Constant: 379.47  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.07  
 P: 0.02  
 K: 20.00  
 Tangent Direction: N 2^37'30" E  
 Radial Direction: S 87^22'30" E  
 Chord Direction: N 2^31'08" E  
 Radial Direction: S 87^41'36" E  
 Tangent Direction: N 2^18'24" E

Element: Circular

SC ( ) 2074+15.83 1051787.0556 2764255.7194

PI ( )	2074+32.32	1051803.5324	2764256.3831
CC ( )		1051931.9514	2760658.6365
CS ( )	2074+48.81	1051820.0145	2764256.8958
Radius:	3600.00		
Delta:	0^31'30"	Left	
Degree of Curvature(Arc):	1^35'30"		
Length:	32.98		
Tangent:	16.49		
Chord:	32.98		
Middle Ordinate:	0.04		
External:	0.04		
Tangent Direction:	N 2^18'24" E		
Radial Direction:	S 87^41'36" E		
Chord Direction:	N 2^02'39" E		
Radial Direction:	S 88^13'05" E		
Tangent Direction:	N 1^46'55" E		

Element: Clothoid

CS ( )	2074+48.81	1051820.0145	2764256.8958
SPI ( )	2074+62.14	1051833.3414	2764257.3104
ST ( )	2074+88.81	1051859.9995	2764257.9915
Entrance Radius:	3600.00		
Exit Radius:	0.00		
Length:	40.00		
Angle:	0^19'06"	Left	
Constant:	379.47		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.07		
P:	0.02		
K:	20.00		
Tangent Direction:	N 1^46'55" E		
Radial Direction:	S 88^13'05" E		
Chord Direction:	N 1^34'11" E		
Radial Direction:	S 88^32'11" E		
Tangent Direction:	N 1^27'49" E		

Element: Linear

ST ( )	2074+88.81	1051859.9995	2764257.9915
TS ( )	2076+33.98	1052005.1208	2764261.6991
Tangent Direction:	N 1^27'49" E		
Tangent Length:	145.17		

Element: Clothoid

TS ( )	2076+33.98	1052005.1208	2764261.6991
SPI ( )	2076+60.64	1052031.7788	2764262.3802
SC ( )	2076+73.98	1052045.1057	2764262.7948
Entrance Radius:	0.00		
Exit Radius:	3600.00		
Length:	40.00		
Angle:	0^19'06"	Right	
Constant:	379.47		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.07		
P:	0.02		
K:	20.00		
Tangent Direction:	N 1^27'49" E		
Radial Direction:	S 88^32'11" E		
Chord Direction:	N 1^34'11" E		
Radial Direction:	S 88^13'05" E		
Tangent Direction:	N 1^46'55" E		

Element: Circular

SC ( )	2076+73.98	1052045.1057	2764262.7948
PI ( )	2076+91.60	1052062.7161	2764263.3426
CC ( )		1051933.1688	2767861.0541
CS ( )	2077+09.22	1052080.3203	2764264.0628
Radius:	3600.00		
Delta:	0^33'39"	Right	
Degree of Curvature(Arc):	1^35'30"		
Length:	35.24		
Tangent:	17.62		
Chord:	35.24		
Middle Ordinate:	0.04		



External: 0.04  
Tangent Direction: N 1^46'55" E  
Radial Direction: S 88^13'05" E  
Chord Direction: N 2^03'44" E  
Radial Direction: S 87^39'26" E  
Tangent Direction: N 2^20'34" E

Element: Clothoid

CS ( ) 2077+09.22 1052080.3203 2764264.0628  
SPI ( ) 2077+22.55 1052093.6425 2764264.6078  
ST ( ) 2077+49.22 1052120.2805 2764265.8458  
Entrance Radius: 3600.00  
Exit Radius: 0.00  
Length: 40.00  
Angle: 0^19'06" Right  
Constant: 379.47  
Long Tangent: 26.67  
Short Tangent: 13.33  
Long Chord: 40.00  
Xs: 40.00  
Ys: 0.07  
P: 0.02  
K: 20.00  
Tangent Direction: N 2^20'34" E  
Radial Direction: S 87^39'26" E  
Chord Direction: N 2^33'17" E  
Radial Direction: S 87^20'21" E  
Tangent Direction: N 2^39'39" E

Element: Linear

ST ( ) 2077+49.22 1052120.2805 2764265.8458  
TS ( ) 2078+31.13 1052202.1110 2764269.6489  
Tangent Direction: N 2^39'39" E  
Tangent Length: 81.92

Element: Clothoid

TS ( ) 2078+31.13 1052202.1110 2764269.6489  
SPI ( ) 2078+51.13 1052222.0895 2764270.5775  
SC ( ) 2078+61.13 1052232.0780 2764271.0567  
Entrance Radius: 0.00  
Exit Radius: 10000.00  
Length: 30.00  
Angle: 0^05'09" Right  
Constant: 547.72  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.01  
P: 0.00  
K: 15.00  
Tangent Direction: N 2^39'39" E  
Radial Direction: S 87^20'21" E  
Chord Direction: N 2^41'23" E  
Radial Direction: S 87^15'11" E  
Tangent Direction: N 2^44'49" E

Element: Circular

SC ( ) 2078+61.13 1052232.0780 2764271.0567  
PI ( ) 2078+61.67 1052232.6135 2764271.0824  
CC ( ) 1051752.8380 2774259.5665  
CS ( ) 2078+62.21 1052233.1491 2764271.1081  
Radius: 10000.00  
Delta: 0^00'22" Right  
Degree of Curvature(Arc): 0^34'23"  
Length: 1.07  
Tangent: 0.54  
Chord: 1.07  
Middle Ordinate: 0.00  
External: 0.00  
Tangent Direction: N 2^44'49" E  
Radial Direction: S 87^15'11" E  
Chord Direction: N 2^45'00" E  
Radial Direction: S 87^14'49" E  
Tangent Direction: N 2^45'11" E

Element: Clothoid

CS ( ) 2078+62.21 1052233.1491 2764271.1081  
SPI ( ) 2078+72.21 1052243.1375 2764271.5885

ST ( )	2078+92.21	1052263.1130	2764272.5790
Entrance Radius:	10000.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^05'09"	Right	
Constant:	547.72		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.01		
P:	0.00		
K:	15.00		
Tangent Direction:	N 2^45'11"	E	
Radial Direction:	S 87^14'49"	E	
Chord Direction:	N 2^48'37"	E	
Radial Direction:	S 87^09'40"	E	
Tangent Direction:	N 2^50'20"	E	

Element: Linear

ST ( )	2078+92.21	1052263.1130	2764272.5790
TS ( )	2080+75.04	1052445.7229	2764281.6347
Tangent Direction:	N 2^50'20"	E	
Tangent Length:	182.83		

Element: Clothoid

TS ( )	2080+75.04	1052445.7229	2764281.6347
SPI ( )	2080+95.04	1052465.6984	2764282.6253
SC ( )	2081+05.04	1052475.6879	2764283.0831
Entrance Radius:	0.00		
Exit Radius:	4000.00		
Length:	30.00		
Angle:	0^12'53"	Left	
Constant:	346.41		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.04		
P:	0.01		
K:	15.00		
Tangent Direction:	N 2^50'20"	E	
Radial Direction:	S 87^09'40"	E	
Chord Direction:	N 2^46'03"	E	
Radial Direction:	S 87^22'33"	E	
Tangent Direction:	N 2^37'27"	E	

Element: Circular

SC ( )	2081+05.04	1052475.6879	2764283.0831
PI ( )	2081+06.67	1052477.3156	2764283.1577
CC ( )		1052658.8222	2760287.2776
CS ( )	2081+08.30	1052478.9433	2764283.2310
Radius:	4000.00		
Delta:	0^02'48"	Left	
Degree of Curvature(Arc):	1^25'57"		
Length:	3.26		
Tangent:	1.63		
Chord:	3.26		
Middle Ordinate:	0.00		
External:	0.00		
Tangent Direction:	N 2^37'27"	E	
Radial Direction:	S 87^22'33"	E	
Chord Direction:	N 2^36'03"	E	
Radial Direction:	S 87^25'21"	E	
Tangent Direction:	N 2^34'39"	E	

Element: Clothoid

CS ( )	2081+08.30	1052478.9433	2764283.2310
SPI ( )	2081+18.30	1052488.9332	2764283.6807
ST ( )	2081+38.30	1052508.9162	2764284.5052
Entrance Radius:	4000.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^12'53"	Left	
Constant:	346.41		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		

	Ys		0.04	
	P:		0.01	
	K:		15.00	
Tangent Direction:	N	2^34'39"	E	
Radial Direction:	S	87^25'21"	E	
Chord Direction:	N	2^26'03"	E	
Radial Direction:	S	87^38'15"	E	
Tangent Direction:	N	2^21'45"	E	
Element: Linear				
ST ( )		2081+38.30	1052508.9162	2764284.5052
TS ( )		2081+79.61	1052550.1929	2764286.2082
Tangent Direction:	N	2^21'45"	E	
Tangent Length:		41.31		
Element: Clothoid				
TS ( )		2081+79.61	1052550.1929	2764286.2082
SPI ( )		2081+99.61	1052570.1760	2764287.0326
SC ( )		2082+09.61	1052580.1658	2764287.4823
Entrance Radius:		0.00		
Exit Radius:		4000.00		
Length:		30.00		
Angle:		0^12'53"	Right	
Constant:		346.41		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.04		
P:		0.01		
K:		15.00		
Tangent Direction:	N	2^21'45"	E	
Radial Direction:	S	87^38'15"	E	
Chord Direction:	N	2^26'03"	E	
Radial Direction:	S	87^25'21"	E	
Tangent Direction:	N	2^34'39"	E	
Element: Circular				
SC ( )		2082+09.61	1052580.1658	2764287.4823
PI ( )		2082+11.24	1052581.7905	2764287.5555
CC ( )			1052400.2869	2768283.4357
CS ( )		2082+12.86	1052583.4152	2764287.6299
Radius:		4000.00		
Delta:		0^02'48"	Right	
Degree of Curvature(Arc):		1^25'57"		
Length:		3.25		
Tangent:		1.63		
Chord:		3.25		
Middle Ordinate:		0.00		
External:		0.00		
Tangent Direction:	N	2^34'39"	E	
Radial Direction:	S	87^25'21"	E	
Chord Direction:	N	2^36'03"	E	
Radial Direction:	S	87^22'33"	E	
Tangent Direction:	N	2^37'27"	E	
Element: Clothoid				
CS ( )		2082+12.86	1052583.4152	2764287.6299
SPI ( )		2082+22.86	1052593.4047	2764288.0877
ST ( )		2082+42.86	1052613.3802	2764289.0783
Entrance Radius:		4000.00		
Exit Radius:		0.00		
Length:		30.00		
Angle:		0^12'53"	Right	
Constant:		346.41		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.04		
P:		0.01		
K:		15.00		
Tangent Direction:	N	2^37'27"	E	
Radial Direction:	S	87^22'33"	E	
Chord Direction:	N	2^46'02"	E	
Radial Direction:	S	87^09'40"	E	
Tangent Direction:	N	2^50'20"	E	
Element: Linear				

ST ( )	2082+42.86	1052613.3802	2764289.0783
TS ( )	2085+52.86	1052922.9927	2764304.4316
Tangent Direction:	N 2^50'20" E		
Tangent Length:	309.99		

Element: Clothoid

TS ( )	2085+52.86	1052922.9927	2764304.4316
SPI ( )	2085+72.86	1052942.9681	2764305.4221
SC ( )	2085+82.86	1052952.9567	2764305.9008
Entrance Radius:	0.00		
Exit Radius:	9000.00		
Length:	30.00		
Angle:	0^05'44" Left		
Constant:	519.62		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.02		
P:	0.00		
K:	15.00		
Tangent Direction:	N 2^50'20" E		
Radial Direction:	S 87^09'40" E		
Chord Direction:	N 2^48'25" E		
Radial Direction:	S 87^15'24" E		
Tangent Direction:	N 2^44'36" E		

Element: Circular

SC ( )	2085+82.86	1052952.9567	2764305.9008
PI ( )	2085+83.24	1052953.3368	2764305.9190
CC ( )		1053383.7248	2755316.2156
CS ( )	2085+83.62	1052953.7169	2764305.9372
Radius:	9000.00		
Delta:	0^00'17" Left		
Degree of Curvature(Arc):	0^38'12"		
Length:	0.76		
Tangent:	0.38		
Chord:	0.76		
Middle Ordinate:	0.00		
External:	0.00		
Tangent Direction:	N 2^44'36" E		
Radial Direction:	S 87^15'24" E		
Chord Direction:	N 2^44'28" E		
Radial Direction:	S 87^15'41" E		
Tangent Direction:	N 2^44'19" E		

Element: Clothoid

CS ( )	2085+83.62	1052953.7169	2764305.9372
SPI ( )	2085+93.62	1052963.7055	2764306.4149
ST ( )	2086+13.62	1052983.6843	2764307.3372
Entrance Radius:	9000.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^05'44" Left		
Constant:	519.62		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.02		
P:	0.00		
K:	15.00		
Tangent Direction:	N 2^44'19" E		
Radial Direction:	S 87^15'41" E		
Chord Direction:	N 2^40'30" E		
Radial Direction:	S 87^21'25" E		
Tangent Direction:	N 2^38'35" E		

Element: Linear

ST ( )	2086+13.62	1052983.6843	2764307.3372
TS ( )	2088+60.70	1053230.4998	2764318.7310
Tangent Direction:	N 2^38'35" E		
Tangent Length:	247.08		

Element: Clothoid

TS ( )	2088+60.70	1053230.4998	2764318.7310
SPI ( )	2088+80.70	1053250.4786	2764319.6532
SC ( )	2088+90.70	1053260.4626	2764320.2214
Entrance Radius:	0.00		

Exit Radius: 1400.00  
 Length: 30.00  
 Angle: 0^36'50" Right  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 2^38'35" E  
 Radial Direction: S 87^21'25" E  
 Chord Direction: N 2^50'52" E  
 Radial Direction: S 86^44'35" E  
 Tangent Direction: N 3^15'25" E

Element: Circular

SC ( ) 2088+90.70 1053260.4626 2764320.2214  
 PI ( ) 2089+07.23 1053276.9694 2764321.1607  
 CC ( ) 1053180.9232 2765717.9601  
 CS ( ) 2089+23.76 1053293.4494 2764322.4896

Radius: 1400.00  
 Delta: 1^21'12" Right

Degree of Curvature(Arc):

4^05'33"

Length: 33.07  
 Tangent: 16.53  
 Chord: 33.06

Middle Ordinate: 0.10  
 External: 0.10

Tangent Direction: N 3^15'25" E  
 Radial Direction: S 86^44'35" E  
 Chord Direction: N 3^56'01" E  
 Radial Direction: S 85^23'23" E  
 Tangent Direction: N 4^36'37" E

Element: Clothoid

CS ( ) 2089+23.76 1053293.4494 2764322.4896  
 SPI ( ) 2089+33.76 1053303.4171 2764323.2934  
 ST ( ) 2089+53.76 1053323.3342 2764325.1144

Entrance Radius: 1400.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^36'50" Right  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00

Tangent Direction: N 4^36'37" E  
 Radial Direction: S 85^23'23" E  
 Chord Direction: N 5^01'10" E  
 Radial Direction: S 84^46'33" E  
 Tangent Direction: N 5^13'27" E

Element: Linear

ST ( ) 2089+53.76 1053323.3342 2764325.1144  
 TS ( ) 2089+93.93 1053363.3302 2764328.7712  
 Tangent Direction: N 5^13'27" E  
 Tangent Length: 40.16

Element: Clothoid

TS ( ) 2089+93.93 1053363.3302 2764328.7712  
 SPI ( ) 2090+13.93 1053383.2472 2764330.5923  
 SC ( ) 2090+23.93 1053393.2150 2764331.3960

Entrance Radius: 0.00  
 Exit Radius: 1400.00  
 Length: 30.00  
 Angle: 0^36'50" Left

Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03

K 15.00

Tangent Direction: N 5^13'27" E  
 Radial Direction: S 84^46'33" E  
 Chord Direction: N 5^01'10" E  
 Radial Direction: S 85^23'23" E  
 Tangent Direction: N 4^36'37" E

Element: Circular

SC ( ) 2090+23.93 1053393.2150 2764331.3960  
 PI ( ) 2090+40.46 1053409.6950 2764332.7249  
 CC ( ) 1053505.7412 2762935.9256  
 CS ( ) 2090+56.99 1053426.2018 2764333.6643  
 Radius: 1400.00  
 Delta: 1^21'12" Left  
 Degree of Curvature(Arc): 4^05'33"  
 Length: 33.07  
 Tangent: 16.53  
 Chord: 33.06  
 Middle Ordinate: 0.10  
 External: 0.10  
 Tangent Direction: N 4^36'37" E  
 Radial Direction: S 85^23'23" E  
 Chord Direction: N 3^56'01" E  
 Radial Direction: S 86^44'35" E  
 Tangent Direction: N 3^15'25" E

Element: Clothoid

CS ( ) 2090+56.99 1053426.2018 2764333.6643  
 SPI ( ) 2090+66.99 1053436.1857 2764334.2324  
 ST ( ) 2090+86.99 1053456.1646 2764335.1547  
 Entrance Radius: 1400.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 0^36'50" Left  
 Constant: 204.94  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.11  
 P: 0.03  
 K: 15.00  
 Tangent Direction: N 3^15'25" E  
 Radial Direction: S 86^44'35" E  
 Chord Direction: N 2^50'52" E  
 Radial Direction: S 87^21'25" E  
 Tangent Direction: N 2^38'35" E

Element: Linear

ST ( ) 2090+86.99 1053456.1646 2764335.1547  
 TS ( ) 2093+50.25 1053719.1432 2764347.2945  
 Tangent Direction: N 2^38'35" E  
 Tangent Length: 263.26

Element: Clothoid

TS ( ) 2093+50.25 1053719.1432 2764347.2945  
 SPI ( ) 2093+76.92 1053745.7815 2764348.5243  
 SC ( ) 2093+90.25 1053759.1038 2764349.0690  
 Entrance Radius: 0.00  
 Exit Radius: 3800.00  
 Length: 40.00  
 Angle: 0^18'06" Left  
 Constant: 389.87  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.07  
 P: 0.02  
 K: 20.00  
 Tangent Direction: N 2^38'35" E  
 Radial Direction: S 87^21'25" E  
 Chord Direction: N 2^32'33" E  
 Radial Direction: S 87^39'31" E  
 Tangent Direction: N 2^20'29" E

Element: Circular

SC ( ) 2093+90.25 1053759.1038 2764349.0690  
 PI ( ) 2094+00.45 1053769.2972 2764349.4858

CC ( )		1053914.3552	2760552.2418
CS ( )		2094+10.65	1053779.4928 2764349.8479
Radius:		3800.00	
Delta:		0^18'28"	Left
Degree of Curvature(Arc):		1^30'28"	
Length:		20.40	
Tangent:		10.20	
Chord:		20.40	
Middle Ordinate:		0.01	
External:		0.01	
Tangent Direction:	N	2^20'29"	E
Radial Direction:	S	87^39'31"	E
Chord Direction:	N	2^11'16"	E
Radial Direction:	S	87^57'58"	E
Tangent Direction:	N	2^02'02"	E

Element: Clothoid

CS ( )		2094+10.65	1053779.4928	2764349.8479
SPI ( )		2094+23.99	1053792.8177	2764350.3211
ST ( )		2094+50.65	1053819.4723	2764351.1272
Entrance Radius:		3800.00		
Exit Radius:		0.00		
Length:		40.00		
Angle:		0^18'06"	Left	
Constant:		389.87		
Long Tangent:		26.67		
Short Tangent:		13.33		
Long Chord:		40.00		
Xs:		40.00		
Ys:		0.07		
P:		0.02		
K:		20.00		
Tangent Direction:	N	2^02'02"	E	
Radial Direction:	S	87^57'58"	E	
Chord Direction:	N	1^49'58"	E	
Radial Direction:	S	88^16'04"	E	
Tangent Direction:	N	1^43'56"	E	

Element: Linear

ST ( )		2094+50.65	1053819.4723	2764351.1272
TS ( )		2095+01.01	1053869.8076	2764352.6495
Tangent Direction:	N	1^43'56"	E	
Tangent Length:		50.36		

Element: Clothoid

TS ( )		2095+01.01	1053869.8076	2764352.6495
SPI ( )		2095+27.68	1053896.4621	2764353.4557
SC ( )		2095+41.01	1053909.7871	2764353.9289
Entrance Radius:		0.00		
Exit Radius:		3800.00		
Length:		40.00		
Angle:		0^18'06"	Right	
Constant:		389.87		
Long Tangent:		26.67		
Short Tangent:		13.33		
Long Chord:		40.00		
Xs:		40.00		
Ys:		0.07		
P:		0.02		
K:		20.00		
Tangent Direction:	N	1^43'56"	E	
Radial Direction:	S	88^16'04"	E	
Chord Direction:	N	1^49'58"	E	
Radial Direction:	S	87^57'58"	E	
Tangent Direction:	N	2^02'02"	E	

Element: Circular

SC ( )		2095+41.01	1053909.7871	2764353.9289
PI ( )		2095+51.18	1053919.9465	2764354.2896
CC ( )			1053774.9246	2768151.5350
CS ( )		2095+61.34	1053930.1039	2764354.7048
Radius:		3800.00		
Delta:		0^18'24"	Right	
Degree of Curvature(Arc):		1^30'28"		
Length:		20.33		
Tangent:		10.17		
Chord:		20.33		
Middle Ordinate:		0.01		
External:		0.01		

Tangent Direction: N 2^02'02" E  
 Radial Direction: S 87^57'58" E  
 Chord Direction: N 2^11'14" E  
 Radial Direction: S 87^39'34" E  
 Tangent Direction: N 2^20'26" E

Element: Clothoid  
 CS ( ) 2095+61.34 1053930.1039 2764354.7048  
 SPI ( ) 2095+74.68 1053943.4261 2764355.2493  
 ST ( ) 2096+01.34 1053970.0645 2764356.4785  
 Entrance Radius: 3800.00  
 Exit Radius: 0.00  
 Length: 40.00  
 Angle: 0^18'06" Right  
 Constant: 389.87  
 Long Tangent: 26.67  
 Short Tangent: 13.33  
 Long Chord: 40.00  
 Xs: 40.00  
 Ys: 0.07  
 P: 0.02  
 K: 20.00  
 Tangent Direction: N 2^20'26" E  
 Radial Direction: S 87^39'34" E  
 Chord Direction: N 2^32'29" E  
 Radial Direction: S 87^21'29" E  
 Tangent Direction: N 2^38'31" E

Element: Linear  
 ST ( ) 2096+01.34 1053970.0645 2764356.4785  
 PC ( ) 2104+81.32 1054849.1086 2764397.0410  
 Tangent Direction: N 2^38'31" E  
 Tangent Length: 879.98

Element: Circular  
 PC ( ) 2104+81.32 1054849.1086 2764397.0410  
 PI ( ) 2104+94.18 1054861.9489 2764397.6335  
 CC ( ) 1054932.0793 2762598.9542  
 PT ( ) 2105+07.03 1054874.7963 2764398.0425  
 Radius: 1800.00  
 Delta: 0^49'06" Left  
 Degree of Curvature(Arc): 3^10'59"  
 Length: 25.71  
 Tangent: 12.85  
 Chord: 25.71  
 Middle Ordinate: 0.05  
 External: 0.05  
 Tangent Direction: N 2^38'31" E  
 Radial Direction: S 87^21'29" E  
 Chord Direction: N 2^13'58" E  
 Radial Direction: S 88^10'35" E  
 Tangent Direction: N 1^49'25" E

Element: Linear  
 PT ( ) 2105+07.03 1054874.7963 2764398.0425  
 PC ( ) 2105+47.64 1054915.3824 2764399.3348  
 Tangent Direction: N 1^49'25" E  
 Tangent Length: 40.61

Element: Circular  
 PC ( ) 2105+47.64 1054915.3824 2764399.3348  
 PI ( ) 2105+61.15 1054928.8862 2764399.7648  
 CC ( ) 1054858.0994 2766198.4231  
 PT ( ) 2105+74.66 1054942.3821 2764400.3974  
 Radius: 1800.00  
 Delta: 0^51'36" Right  
 Degree of Curvature(Arc): 3^10'59"  
 Length: 27.02  
 Tangent: 13.51  
 Chord: 27.02  
 Middle Ordinate: 0.05  
 External: 0.05  
 Tangent Direction: N 1^49'25" E  
 Radial Direction: S 88^10'35" E  
 Chord Direction: N 2^15'13" E  
 Radial Direction: S 87^18'58" E  
 Tangent Direction: N 2^41'02" E

Element: Linear



PT ( )		2105+74.66	1054942.3821	2764400.3974
PC ( )		2106+99.01	1055066.5985	2764406.2200
Tangent Direction:	N	2^41'02" E		
Tangent Length:		124.35		
Element: Circular				
PC ( )		2106+99.01	1055066.5985	2764406.2200
PI ( )		2107+21.15	1055088.7107	2764407.2565
CC ( )			1055129.8105	2763057.7008
PT ( )		2107+43.28	1055110.8450	2764407.5675
Radius:		1350.00		
Delta:		1^52'44" Left		
Degree of Curvature(Arc):		4^14'39"		
Length:		44.27		
Tangent:		22.14		
Chord:		44.27		
Middle Ordinate:		0.18		
External:		0.18		
Tangent Direction:	N	2^41'02" E		
Radial Direction:	S	87^18'58" E		
Chord Direction:	N	1^44'40" E		
Radial Direction:	S	89^11'42" E		
Tangent Direction:	N	0^48'18" E		
Element: Linear				
PT ( )		2107+43.28	1055110.8450	2764407.5675
PC ( )		2107+87.18	1055154.7378	2764408.1842
Tangent Direction:	N	0^48'18" E		
Tangent Length:		43.90		
Element: Circular				
PC ( )		2107+87.18	1055154.7378	2764408.1842
PI ( )		2108+05.89	1055173.4464	2764408.4471
CC ( )			1055135.7723	2765758.0510
PT ( )		2108+24.59	1055192.1404	2764409.2283
Radius:		1350.00		
Delta:		1^35'17" Right		
Degree of Curvature(Arc):		4^14'39"		
Length:		37.42		
Tangent:		18.71		
Chord:		37.42		
Middle Ordinate:		0.13		
External:		0.13		
Tangent Direction:	N	0^48'18" E		
Radial Direction:	S	89^11'42" E		
Chord Direction:	N	1^35'56" E		
Radial Direction:	S	87^36'25" E		
Tangent Direction:	N	2^23'35" E		
Element: Linear				
PT ( )		2108+24.59	1055192.1404	2764409.2283
TS ( )		2110+55.44	1055422.7837	2764418.8670
Tangent Direction:	N	2^23'35" E		
Tangent Length:		230.84		
Element: Clothoid				
TS ( )		2110+55.44	1055422.7837	2764418.8670
SPI ( )		2110+75.44	1055442.7665	2764419.7021
SC ( )		2110+85.44	1055452.7517	2764420.2483
Entrance Radius:		0.00		
Exit Radius:		1165.00		
Length:		30.00		
Angle:		0^44'16" Right		
Constant:		186.95		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.13		
P:		0.03		
K:		15.00		
Tangent Direction:	N	2^23'35" E		
Radial Direction:	S	87^36'25" E		
Chord Direction:	N	2^38'20" E		
Radial Direction:	S	86^52'09" E		
Tangent Direction:	N	3^07'51" E		
Element: Circular				
SC ( )		2110+85.44	1055452.7517	2764420.2483

PI ( )	2111+20.86	1055488.1219	2764422.1829
CC ( )		1055389.1256	2765583.5095
CS ( )	2111+56.26	1055523.3093	2764426.2629
Radius:	1165.00		
Delta:	3^29'00"	Right	
Degree of Curvature(Arc):	4^55'05"		
Length:	70.82		
Tangent:	35.42		
Chord:	70.81		
Middle Ordinate:	0.54		
External:	0.54		
Tangent Direction:	N 3^07'51"	E	
Radial Direction:	S 86^52'09"	E	
Chord Direction:	N 4^52'20"	E	
Radial Direction:	S 83^23'10"	E	
Tangent Direction:	N 6^36'50"	E	

Element: Clothoid

CS ( )	2111+56.26	1055523.3093	2764426.2629
SPI ( )	2111+66.26	1055533.2429	2764427.4147
ST ( )	2111+86.26	1055553.0787	2764429.9739
Entrance Radius:	1165.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^44'16"	Right	
Constant:	186.95		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.13		
P:	0.03		
K:	15.00		
Tangent Direction:	N 6^36'50"	E	
Radial Direction:	S 83^23'10"	E	
Chord Direction:	N 7^06'21"	E	
Radial Direction:	S 82^38'54"	E	
Tangent Direction:	N 7^21'06"	E	

Element: Linear

ST ( )	2111+86.26	1055553.0787	2764429.9739
TS ( )	2111+86.48	1055553.2898	2764430.0012
Tangent Direction:	N 7^21'06"	E	
Tangent Length:	0.21		

Element: Clothoid

TS ( )	2111+86.48	1055553.2898	2764430.0012
SPI ( )	2112+06.48	1055573.1256	2764432.5604
SC ( )	2112+16.48	1055583.0592	2764433.7122
Entrance Radius:	0.00		
Exit Radius:	1165.00		
Length:	30.00		
Angle:	0^44'16"	Left	
Constant:	186.95		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.13		
P:	0.03		
K:	15.00		
Tangent Direction:	N 7^21'06"	E	
Radial Direction:	S 82^38'54"	E	
Chord Direction:	N 7^06'21"	E	
Radial Direction:	S 83^23'10"	E	
Tangent Direction:	N 6^36'50"	E	

Element: Circular

SC ( )	2112+16.48	1055583.0592	2764433.7122
PI ( )	2112+52.93	1055619.2716	2764437.9110
CC ( )		1055717.2429	2763276.4656
CS ( )	2112+89.36	1055655.6757	2764439.8376
Radius:	1165.00		
Delta:	3^35'05"	Left	
Degree of Curvature(Arc):	4^55'05"		
Length:	72.89		
Tangent:	36.46		
Chord:	72.87		
Middle Ordinate:	0.57		

External: 0.57  
Tangent Direction: N 6^36'50" E  
Radial Direction: S 83^23'10" E  
Chord Direction: N 4^49'18" E  
Radial Direction: S 86^58'14" E  
Tangent Direction: N 3^01'46" E

Element: Clothoid

CS ( ) 2112+89.36 1055655.6757 2764439.8376  
SPI ( ) 2112+99.36 1055665.6619 2764440.3661  
ST ( ) 2113+19.36 1055685.6461 2764441.1658  
Entrance Radius: 1165.00  
Exit Radius: 0.00  
Length: 30.00  
Angle: 0^44'16" Left  
Constant: 186.95  
Long Tangent: 20.00  
Short Tangent: 10.00  
Long Chord: 30.00  
Xs: 30.00  
Ys: 0.13  
P: 0.03  
K: 15.00  
Tangent Direction: N 3^01'46" E  
Radial Direction: S 86^58'14" E  
Chord Direction: N 2^32'15" E  
Radial Direction: S 87^42'30" E  
Tangent Direction: N 2^17'30" E

Element: Linear

ST ( ) 2113+19.36 1055685.6461 2764441.1658  
TS ( ) 2122+23.56 1056589.1182 2764477.3208  
Tangent Direction: N 2^17'30" E  
Tangent Length: 904.20

Element: Clothoid

TS ( ) 2122+23.56 1056589.1182 2764477.3208  
SPI ( ) 2122+50.23 1056615.7636 2764478.3871  
SC ( ) 2122+63.56 1056629.0891 2764478.8451  
Entrance Radius: 0.00  
Exit Radius: 3550.00  
Length: 40.00  
Angle: 0^19'22" Left  
Constant: 376.83  
Long Tangent: 26.67  
Short Tangent: 13.33  
Long Chord: 40.00  
Xs: 40.00  
Ys: 0.08  
P: 0.02  
K: 20.00  
Tangent Direction: N 2^17'30" E  
Radial Direction: S 87^42'30" E  
Chord Direction: N 2^11'03" E  
Radial Direction: S 88^01'52" E  
Tangent Direction: N 1^58'08" E

Element: Circular

SC ( ) 2122+63.56 1056629.0891 2764478.8451  
PI ( ) 2122+71.88 1056637.4103 2764479.1312  
CC ( ) 1056751.0525 2760930.9408  
CS ( ) 2122+80.21 1056645.7327 2764479.3782  
Radius: 3550.00  
Delta: 0^16'08" Left  
Degree of Curvature(Arc): 1^36'50"  
Length: 16.65  
Tangent: 8.33  
Chord: 16.65  
Middle Ordinate: 0.01  
External: 0.01  
Tangent Direction: N 1^58'08" E  
Radial Direction: S 88^01'52" E  
Chord Direction: N 1^50'04" E  
Radial Direction: S 88^18'00" E  
Tangent Direction: N 1^42'00" E

Element: Clothoid

CS ( ) 2122+80.21 1056645.7327 2764479.3782  
SPI ( ) 2122+93.54 1056659.0602 2764479.7738

ST ( )	2123+20.21	1056685.7192	2764480.4147
Entrance Radius:	3550.00		
Exit Radius:	0.00		
Length:	40.00		
Angle:	0^19'22"	Left	
Constant:	376.83		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.08		
P:	0.02		
K:	20.00		
Tangent Direction:	N 1^42'00"	E	
Radial Direction:	S 88^18'00"	E	
Chord Direction:	N 1^29'06"	E	
Radial Direction:	S 88^37'22"	E	
Tangent Direction:	N 1^22'38"	E	
Element: Linear			
ST ( )	2123+20.21	1056685.7192	2764480.4147
TS ( )	2123+72.49	1056737.9812	2764481.6712
Tangent Direction:	N 1^22'38"	E	
Tangent Length:	52.28		
Element: Clothoid			
TS ( )	2123+72.49	1056737.9812	2764481.6712
SPI ( )	2123+99.15	1056764.6402	2764482.3122
SC ( )	2124+12.49	1056777.9677	2764482.7078
Entrance Radius:	0.00		
Exit Radius:	3550.00		
Length:	40.00		
Angle:	0^19'22"	Right	
Constant:	376.83		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		
Ys:	0.08		
P:	0.02		
K:	20.00		
Tangent Direction:	N 1^22'38"	E	
Radial Direction:	S 88^37'22"	E	
Chord Direction:	N 1^29'06"	E	
Radial Direction:	S 88^18'00"	E	
Tangent Direction:	N 1^42'00"	E	
Element: Circular			
SC ( )	2124+12.49	1056777.9677	2764482.7078
PI ( )	2124+25.79	1056791.2611	2764483.1023
CC ( )		1056672.6478	2768031.1451
CS ( )	2124+39.09	1056804.5512	2764483.5965
Radius:	3550.00		
Delta:	0^25'45"	Right	
Degree of Curvature(Arc):	1^36'50"		
Length:	26.60		
Tangent:	13.30		
Chord:	26.60		
Middle Ordinate:	0.02		
External:	0.02		
Tangent Direction:	N 1^42'00"	E	
Radial Direction:	S 88^18'00"	E	
Chord Direction:	N 1^54'53"	E	
Radial Direction:	S 87^52'14"	E	
Tangent Direction:	N 2^07'46"	E	
Element: Clothoid			
CS ( )	2124+39.09	1056804.5512	2764483.5965
SPI ( )	2124+52.42	1056817.8754	2764484.0919
ST ( )	2124+79.09	1056844.5177	2764485.2328
Entrance Radius:	3550.00		
Exit Radius:	0.00		
Length:	40.00		
Angle:	0^19'22"	Right	
Constant:	376.83		
Long Tangent:	26.67		
Short Tangent:	13.33		
Long Chord:	40.00		
Xs:	40.00		

Ys		0.08		
P:		0.02		
K:		20.00		
Tangent Direction:	N	2^07'46"	E	
Radial Direction:	S	87^52'14"	E	
Chord Direction:	N	2^20'40"	E	
Radial Direction:	S	87^32'52"	E	
Tangent Direction:	N	2^27'08"	E	
Element: Linear				
ST ( )		2124+79.09	1056844.5177	2764485.2328
PC ( )		2131+83.02	1057547.8105	2764515.3509
Tangent Direction:	N	2^27'08"	E	
Tangent Length:		703.94		
Element: Circular				
PC ( )		2131+83.02	1057547.8105	2764515.3509
PI ( )		2132+01.25	1057566.0206	2764516.1308
CC ( )			1057599.1527	2763316.4498
PT ( )		2132+19.47	1057584.2460	2764516.3572
Radius:		1200.00		
Delta:		1^44'25"	Left	
Degree of Curvature(Arc):		4^46'29"		
Length:		36.45		
Tangent:		18.23		
Chord:		36.45		
Middle Ordinate:		0.14		
External:		0.14		
Tangent Direction:	N	2^27'08"	E	
Radial Direction:	S	87^32'52"	E	
Chord Direction:	N	1^34'55"	E	
Radial Direction:	S	89^17'18"	E	
Tangent Direction:	N	0^42'42"	E	
Element: Linear				
PT ( )		2132+19.47	1057584.2460	2764516.3572
TS ( )		2133+43.74	1057708.5044	2764517.9009
Tangent Direction:	N	0^42'42"	E	
Tangent Length:		124.27		
Element: Clothoid				
TS ( )		2133+43.74	1057708.5044	2764517.9009
SPI ( )		2133+63.74	1057728.5028	2764518.1493
SC ( )		2133+73.74	1057738.5025	2764518.2330
Entrance Radius:		0.00		
Exit Radius:		3700.00		
Length:		30.00		
Angle:		0^13'56"	Left	
Constant:		333.17		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.04		
P:		0.01		
K:		15.00		
Tangent Direction:	N	0^42'42"	E	
Radial Direction:	S	89^17'18"	E	
Chord Direction:	N	0^38'04"	E	
Radial Direction:	S	89^31'14"	E	
Tangent Direction:	N	0^28'46"	E	
Element: Circular				
SC ( )		2133+73.74	1057738.5025	2764518.2330
PI ( )		2133+74.45	1057739.2076	2764518.2389
CC ( )			1057769.4658	2760818.3626
CS ( )		2133+75.15	1057739.9127	2764518.2445
Radius:		3700.00		
Delta:		0^01'19"	Left	
Degree of Curvature(Arc):		1^32'55"		
Length:		1.41		
Tangent:		0.71		
Chord:		1.41		
Middle Ordinate:		0.00		
External:		0.00		
Tangent Direction:	N	0^28'46"	E	
Radial Direction:	S	89^31'14"	E	
Chord Direction:	N	0^28'07"	E	
Radial Direction:	S	89^32'32"	E	

Tangent Direction N 0^27'28" E

Element: Clothoid

CS ( )	2133+75.15	1057739.9127	2764518.2445
SPI ( )	2133+85.15	1057749.9124	2764518.3244
ST ( )	2134+05.15	1057769.9123	2764518.4031
Entrance Radius:	3700.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^13'56"	Left	
Constant:	333.17		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.04		
P:	0.01		
K:	15.00		
Tangent Direction:	N 0^27'28" E		
Radial Direction:	S 89^32'32" E		
Chord Direction:	N 0^18'10" E		
Radial Direction:	S 89^46'29" E		
Tangent Direction:	N 0^13'31" E		

Element: Linear

ST ( )	2134+05.15	1057769.9123	2764518.4031
TS ( )	2134+46.23	1057810.9851	2764518.5646
Tangent Direction:	N 0^13'31" E		
Tangent Length:	41.07		

Element: Clothoid

TS ( )	2134+46.23	1057810.9851	2764518.5646
SPI ( )	2134+66.23	1057830.9850	2764518.6433
SC ( )	2134+76.23	1057840.9847	2764518.7232
Entrance Radius:	0.00		
Exit Radius:	3700.00		
Length:	30.00		
Angle:	0^13'56"	Right	
Constant:	333.17		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.04		
P:	0.01		
K:	15.00		
Tangent Direction:	N 0^13'31" E		
Radial Direction:	S 89^46'29" E		
Chord Direction:	N 0^18'10" E		
Radial Direction:	S 89^32'32" E		
Tangent Direction:	N 0^27'28" E		

Element: Circular

SC ( )	2134+76.23	1057840.9847	2764518.7232
PI ( )	2134+76.93	1057841.6898	2764518.7288
CC ( )		1057811.4316	2768218.6051
CS ( )	2134+77.64	1057842.3949	2764518.7347
Radius:	3700.00		
Delta:	0^01'19"	Right	
Degree of Curvature(Arc):	1^32'55"		
Length:	1.41		
Tangent:	0.71		
Chord:	1.41		
Middle Ordinate:	0.00		
External:	0.00		
Tangent Direction:	N 0^27'28" E		
Radial Direction:	S 89^32'32" E		
Chord Direction:	N 0^28'07" E		
Radial Direction:	S 89^31'14" E		
Tangent Direction:	N 0^28'46" E		

Element: Clothoid

CS ( )	2134+77.64	1057842.3949	2764518.7347
SPI ( )	2134+87.64	1057852.3946	2764518.8184
ST ( )	2135+07.64	1057872.3930	2764519.0668
Entrance Radius:	3700.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^13'56"	Right	

Constant 333.17  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.04  
 P: 0.01  
 K: 15.00  
 Tangent Direction: N 0^28'46" E  
 Radial Direction: S 89^31'14" E  
 Chord Direction: N 0^38'04" E  
 Radial Direction: S 89^17'18" E  
 Tangent Direction: N 0^42'42" E

Element: Linear  
 ST ( ) 2135+07.64 1057872.3930 2764519.0668  
 TS ( ) 2138+76.29 1058241.0210 2764523.6464  
 Tangent Direction: N 0^42'42" E  
 Tangent Length: 368.66

Element: Clothoid  
 TS ( ) 2138+76.29 1058241.0210 2764523.6464  
 SPI ( ) 2139+09.63 1058274.3519 2764524.0605  
 SC ( ) 2139+26.29 1058291.0150 2764524.4112  
 Entrance Radius: 0.00  
 Exit Radius: 2900.00  
 Length: 50.00  
 Angle: 0^29'38" Right  
 Constant: 380.79  
 Long Tangent: 33.33  
 Short Tangent: 16.67  
 Long Chord: 50.00  
 Xs: 50.00  
 Ys: 0.14  
 P: 0.04  
 K: 25.00  
 Tangent Direction: N 0^42'42" E  
 Radial Direction: S 89^17'18" E  
 Chord Direction: N 0^52'35" E  
 Radial Direction: S 88^47'40" E  
 Tangent Direction: N 1^12'20" E

Element: Circular  
 SC ( ) 2139+26.29 1058291.0150 2764524.4112  
 PI ( ) 2140+06.90 1058371.6083 2764526.1074  
 CC ( ) 1058229.9939 2767423.7691  
 CS ( ) 2140+87.47 1058451.9829 2764532.2780  
 Radius: 2900.00  
 Delta: 3^11'04" Right  
 Degree of Curvature(Arc): 1^58'33"  
 Length: 161.18  
 Tangent: 80.61  
 Chord: 161.16  
 Middle Ordinate: 1.12  
 External: 1.12  
 Tangent Direction: N 1^12'20" E  
 Radial Direction: S 88^47'40" E  
 Chord Direction: N 2^47'53" E  
 Radial Direction: S 85^36'35" E  
 Tangent Direction: N 4^23'25" E

Element: Clothoid  
 CS ( ) 2140+87.47 1058451.9829 2764532.2780  
 SPI ( ) 2141+04.14 1058468.6008 2764533.5538  
 ST ( ) 2141+37.47 1058501.8132 2764536.3918  
 Entrance Radius: 2900.00  
 Exit Radius: 0.00  
 Length: 50.00  
 Angle: 0^29'38" Right  
 Constant: 380.79  
 Long Tangent: 33.33  
 Short Tangent: 16.67  
 Long Chord: 50.00  
 Xs: 50.00  
 Ys: 0.14  
 P: 0.04  
 K: 25.00  
 Tangent Direction: N 4^23'25" E  
 Radial Direction: S 85^36'35" E

Chord Direction: N 4^43'10" E  
Radial Direction: S 85^06'57" E  
Tangent Direction: N 4^53'03" E

Element: Linear  
ST ( ) 2141+37.47 1058501.8132 2764536.3918  
TS ( ) 2155+55.47 1059914.6613 2764657.1206  
Tangent Direction: N 4^53'03" E  
Tangent Length: 1418.00

Element: Clothoid  
TS ( ) 2155+55.47 1059914.6613 2764657.1206  
SPI ( ) 2155+88.81 1059947.8764 2764659.9588  
SC ( ) 2156+05.47 1059964.4156 2764662.0358  
Entrance Radius: 0.00  
Exit Radius: 630.00  
Length: 50.00  
Angle: 2^16'25" Right  
Constant: 177.48  
Long Tangent: 33.34  
Short Tangent: 16.67  
Long Chord: 50.00  
Xs: 49.99  
Ys: 0.66  
P: 0.17  
K: 25.00  
Tangent Direction: N 4^53'03" E  
Radial Direction: S 85^06'57" E  
Chord Direction: N 5^38'31" E  
Radial Direction: S 82^50'32" E  
Tangent Direction: N 7^09'28" E

Element: Circular  
SC ( ) 2156+05.47 1059964.4156 2764662.0358  
PI ( ) 2156+46.63 1060005.2583 2764667.1649  
CC ( ) 1059885.9167 2765287.1262  
CS ( ) 2156+87.68 1060045.0863 2764677.5648  
Radius: 630.00  
Delta: 7^28'36" Right  
Degree of Curvature(Arc): 9^05'40"  
Length: 82.21  
Tangent: 41.16  
Chord: 82.15  
Middle Ordinate: 1.34  
External: 1.34  
Tangent Direction: N 7^09'28" E  
Radial Direction: S 82^50'32" E  
Chord Direction: N 10^53'46" E  
Radial Direction: S 75^21'56" E  
Tangent Direction: N 14^38'04" E

Element: Clothoid  
CS ( ) 2156+87.68 1060045.0863 2764677.5648  
SPI ( ) 2157+04.35 1060061.2147 2764681.7763  
ST ( ) 2157+37.68 1060093.1097 2764691.4716  
Entrance Radius: 630.00  
Exit Radius: 0.00  
Length: 50.00  
Angle: 2^16'25" Right  
Constant: 177.48  
Long Tangent: 33.34  
Short Tangent: 16.67  
Long Chord: 50.00  
Xs: 49.99  
Ys: 0.66  
P: 0.17  
K: 25.00  
Tangent Direction: N 14^38'04" E  
Radial Direction: S 75^21'56" E  
Chord Direction: N 16^09'01" E  
Radial Direction: S 73^05'31" E  
Tangent Direction: N 16^54'29" E

Element: Linear  
ST ( ) 2157+37.68 1060093.1097 2764691.4716  
TS ( ) 2157+78.95 1060132.5922 2764703.4734  
Tangent Direction: N 16^54'29" E  
Tangent Length: 41.27



Element: Clothoid

TS ( )	2157+78.95	1060132.5922	2764703.4734
SPI ( )	2157+98.95	1060151.7279	2764709.2902
SC ( )	2158+08.95	1060161.3363	2764712.0616
Entrance Radius:	0.00		
Exit Radius:	1050.00		
Length:	30.00		
Angle:	0^49'07"	Left	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 16^54'29"	E	
Radial Direction:	S 73^05'31"	E	
Chord Direction:	N 16^38'07"	E	
Radial Direction:	S 73^54'38"	E	
Tangent Direction:	N 16^05'22"	E	

Element: Circular

SC ( )	2158+08.95	1060161.3363	2764712.0616
PI ( )	2158+10.68	1060163.0035	2764712.5425
CC ( )		1060452.3322	2763703.1902
CS ( )	2158+12.42	1060164.6723	2764713.0179
Radius:	1050.00		
Delta:	0^11'22"	Left	
Degree of Curvature(Arc):	5^27'24"		
Length:	3.47		
Tangent:	1.74		
Chord:	3.47		
Middle Ordinate:	0.00		
External:	0.00		
Tangent Direction:	N 16^05'22"	E	
Radial Direction:	S 73^54'38"	E	
Chord Direction:	N 15^59'41"	E	
Radial Direction:	S 74^05'59"	E	
Tangent Direction:	N 15^54'01"	E	

Element: Clothoid

CS ( )	2158+12.42	1060164.6723	2764713.0179
SPI ( )	2158+22.42	1060174.2899	2764715.7575
ST ( )	2158+42.42	1060193.6013	2764720.9615
Entrance Radius:	1050.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^49'07"	Left	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 15^54'01"	E	
Radial Direction:	S 74^05'59"	E	
Chord Direction:	N 15^21'16"	E	
Radial Direction:	S 74^55'06"	E	
Tangent Direction:	N 15^04'54"	E	

Element: Linear

ST ( )	2158+42.42	1060193.6013	2764720.9615
TS ( )	2159+74.31	1060320.9541	2764755.2801
Tangent Direction:	N 15^04'54"	E	
Tangent Length:	131.90		

Element: Clothoid

TS ( )	2159+74.31	1060320.9541	2764755.2801
SPI ( )	2159+94.31	1060340.2657	2764760.4842
SC ( )	2160+04.31	1060349.9793	2764762.8628
Entrance Radius:	0.00		
Exit Radius:	650.00		
Length:	30.00		
Angle:	1^19'20"	Left	
Constant:	139.64		
Long Tangent:	20.00		

Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.23  
 P: 0.06  
 K: 15.00  
 Tangent Direction: N 15^04'54" E  
 Radial Direction: S 74^55'06" E  
 Chord Direction: N 14^38'27" E  
 Radial Direction: S 76^14'26" E  
 Tangent Direction: N 13^45'34" E

Element: Circular

SC ( ) 2160+04.31 1060349.9793 2764762.8628  
 PI ( ) 2160+39.61 1060384.2635 2764771.2580  
 CC ( ) 1060504.5790 2764131.5159  
 CS ( ) 2160+74.84 1060419.2551 2764775.8914  
 Radius: 650.00  
 Delta: 6^13'00" Left  
 Degree of Curvature(Arc): 8^48'53"  
 Length: 70.52  
 Tangent: 35.30  
 Chord: 70.49  
 Middle Ordinate: 0.96  
 External: 0.96  
 Tangent Direction: N 13^45'34" E  
 Radial Direction: S 76^14'26" E  
 Chord Direction: N 10^39'04" E  
 Radial Direction: S 82^27'26" E  
 Tangent Direction: N 7^32'34" E

Element: Clothoid

CS ( ) 2160+74.84 1060419.2551 2764775.8914  
 SPI ( ) 2160+84.84 1060429.1691 2764777.2041  
 ST ( ) 2161+04.84 1060449.0519 2764779.3713  
 Entrance Radius: 650.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 1^19'20" Left  
 Constant: 139.64  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.23  
 P: 0.06  
 K: 15.00  
 Tangent Direction: N 7^32'34" E  
 Radial Direction: S 82^27'26" E  
 Chord Direction: N 6^39'41" E  
 Radial Direction: S 83^46'46" E  
 Tangent Direction: N 6^13'14" E

Element: Linear

ST ( ) 2161+04.84 1060449.0519 2764779.3713  
 TS ( ) 2161+75.27 1060519.0710 2764787.0034  
 Tangent Direction: N 6^13'14" E  
 Tangent Length: 70.43

Element: Clothoid

TS ( ) 2161+75.27 1060519.0710 2764787.0034  
 SPI ( ) 2162+28.61 1060572.0917 2764792.7826  
 SC ( ) 2162+55.27 1060598.6603 2764795.0824  
 Entrance Radius: 0.00  
 Exit Radius: 1800.00  
 Length: 80.00  
 Angle: 1^16'24" Left  
 Constant: 379.47  
 Long Tangent: 53.33  
 Short Tangent: 26.67  
 Long Chord: 80.00  
 Xs: 80.00  
 Ys: 0.59  
 P: 0.15  
 K: 40.00  
 Tangent Direction: N 6^13'14" E  
 Radial Direction: S 83^46'46" E  
 Chord Direction: N 5^47'46" E  
 Radial Direction: S 85^03'09" E

Tangent Direction N 4^56'51" E

Element: Circular

SC ( ) 2162+55.27 1060598.6603 2764795.0824  
PI ( ) 2162+75.53 1060618.8387 2764796.8292  
CC ( ) 1060753.8940 2763001.7887  
CS ( ) 2162+95.78 1060639.0514 2764798.1214

Radius: 1800.00

Delta: 1^17'22" Left

Degree of Curvature(Arc): 3^10'59"

Length: 40.51

Tangent: 20.25

Chord: 40.51

Middle Ordinate: 0.11

External: 0.11

Tangent Direction: N 4^56'51" E

Radial Direction: S 85^03'09" E

Chord Direction: N 4^18'10" E

Radial Direction: S 86^20'31" E

Tangent Direction: N 3^39'29" E

Element: Clothoid

CS ( ) 2162+95.78 1060639.0514 2764798.1214  
SPI ( ) 2163+22.45 1060665.6650 2764799.8228  
ST ( ) 2163+75.78 1060718.9535 2764802.0421

Entrance Radius: 1800.00

Exit Radius: 0.00

Length: 80.00

Angle: 1^16'24" Left

Constant: 379.47

Long Tangent: 53.33

Short Tangent: 26.67

Long Chord: 80.00

Xs: 80.00

Ys: 0.59

P: 0.15

K: 40.00

Tangent Direction: N 3^39'29" E

Radial Direction: S 86^20'31" E

Chord Direction: N 2^48'33" E

Radial Direction: S 87^36'55" E

Tangent Direction: N 2^23'05" E

Element: Linear

ST ( ) 2163+75.78 1060718.9535 2764802.0421  
TS ( ) 2168+82.20 1061224.9388 2764823.1147

Tangent Direction: N 2^23'05" E

Tangent Length: 506.42

Element: Clothoid

TS ( ) 2168+82.20 1061224.9388 2764823.1147  
SPI ( ) 2169+28.87 1061271.5658 2764825.0566  
SC ( ) 2169+52.20 1061294.8927 2764825.6294

Entrance Radius: 0.00

Exit Radius: 2050.00

Length: 70.00

Angle: 0^58'42" Left

Constant: 378.81

Long Tangent: 46.67

Short Tangent: 23.33

Long Chord: 70.00

Xs: 70.00

Ys: 0.40

P: 0.10

K: 35.00

Tangent Direction: N 2^23'05" E

Radial Direction: S 87^36'55" E

Chord Direction: N 2^03'31" E

Radial Direction: S 88^35'36" E

Tangent Direction: N 1^24'24" E

Element: Circular

SC ( ) 2169+52.20 1061294.8927 2764825.6294  
PI ( ) 2169+94.63 1061337.3111 2764826.6709  
CC ( ) 1061345.2140 2762776.2471  
CS ( ) 2170+37.05 1061379.7362 2764825.9564

Radius: 2050.00

Delta: 2^22'17" Left

Degree of Curvature(Arc): 2^47'42"

Length: 84.85  
 Tangent: 42.43  
 Chord: 84.84  
 Middle Ordinate: 0.44  
 External: 0.44  
 Tangent Direction: N 1^24'24" E  
 Radial Direction: S 88^35'36" E  
 Chord Direction: N 0^13'15" E  
 Radial Direction: N 89^02'06" E  
 Tangent Direction: N 0^57'54" W

Element: Clothoid

CS ( ) 2170+37.05 1061379.7362 2764825.9564  
 SPI ( ) 2170+60.39 1061403.0669 2764825.5634  
 ST ( ) 2171+07.05 1061449.7074 2764823.9811  
 Entrance Radius: 2050.00  
 Exit Radius: 0.00  
 Length: 70.00  
 Angle: 0^58'42" Left  
 Constant: 378.81  
 Long Tangent: 46.67  
 Short Tangent: 23.33  
 Long Chord: 70.00  
 Xs: 70.00  
 Ys: 0.40  
 P: 0.10  
 K: 35.00  
 Tangent Direction: N 0^57'54" W  
 Radial Direction: N 89^02'06" E  
 Chord Direction: N 1^37'01" W  
 Radial Direction: N 88^03'25" E  
 Tangent Direction: N 1^56'35" W

Element: Linear

ST ( ) 2171+07.05 1061449.7074 2764823.9811  
 TS ( ) 2172+05.12 1061547.7145 2764820.6560  
 Tangent Direction: N 1^56'35" W  
 Tangent Length: 98.06

Element: Clothoid

TS ( ) 2172+05.12 1061547.7145 2764820.6560  
 SPI ( ) 2172+25.12 1061567.7033 2764819.9778  
 SC ( ) 2172+35.12 1061577.7015 2764819.7815  
 Entrance Radius: 0.00  
 Exit Radius: 1050.00  
 Length: 30.00  
 Angle: 0^49'07" Right  
 Constant: 177.48  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.14  
 P: 0.04  
 K: 15.00  
 Tangent Direction: N 1^56'35" W  
 Radial Direction: N 88^03'25" E  
 Chord Direction: N 1^40'13" W  
 Radial Direction: N 88^52'31" E  
 Tangent Direction: N 1^07'29" W

Element: Circular

SC ( ) 2172+35.12 1061577.7015 2764819.7815  
 PI ( ) 2172+59.48 1061602.0636 2764819.3033  
 CC ( ) 1061598.3100 2765869.5793  
 CS ( ) 2172+83.84 1061626.4217 2764819.9557

Radius: 1050.00  
 Delta: 2^39'32" Right  
 Degree of Curvature(Arc): 5^27'24"  
 Length: 48.72  
 Tangent: 24.37  
 Chord: 48.72  
 Middle Ordinate: 0.28  
 External: 0.28  
 Tangent Direction: N 1^07'29" W  
 Radial Direction: N 88^52'31" E  
 Chord Direction: N 0^12'17" E  
 Radial Direction: S 88^27'57" E  
 Tangent Direction: N 1^32'03" E

Element: Clothoid

CS ( )	2172+83.84	1061626.4217	2764819.9557
SPI ( )	2172+93.84	1061636.4183	2764820.2234
ST ( )	2173+13.84	1061656.4017	2764821.0444
Entrance Radius:	1050.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	0^49'07"	Right	
Constant:	177.48		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.14		
P:	0.04		
K:	15.00		
Tangent Direction:	N 1^32'03"	E	
Radial Direction:	S 88^27'57"	E	
Chord Direction:	N 2^04'47"	E	
Radial Direction:	S 87^38'50"	E	
Tangent Direction:	N 2^21'10"	E	

Element: Linear

ST ( )	2173+13.84	1061656.4017	2764821.0444
TS ( )	2175+94.24	1061936.5657	2764832.5550
Tangent Direction:	N 2^21'10"	E	
Tangent Length:	280.40		

Element: Clothoid

TS ( )	2175+94.24	1061936.5657	2764832.5550
SPI ( )	2176+14.24	1061956.5497	2764833.3760
SC ( )	2176+24.24	1061966.5261	2764834.0746
Entrance Radius:	0.00		
Exit Radius:	520.00		
Length:	30.00		
Angle:	1^39'10"	Right	
Constant:	124.90		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.29		
P:	0.07		
K:	15.00		
Tangent Direction:	N 2^21'10"	E	
Radial Direction:	S 87^38'50"	E	
Chord Direction:	N 2^54'13"	E	
Radial Direction:	S 85^59'40"	E	
Tangent Direction:	N 4^00'20"	E	

Element: Circular

SC ( )	2176+24.24	1061966.5261	2764834.0746
PI ( )	2176+38.49	1061980.7426	2764835.0701
CC ( )		1061930.2034	2765352.8044
CS ( )	2176+52.74	1061994.8833	2764836.8427
Radius:	520.00		
Delta:	3^08'23"	Right	
Degree of Curvature(Arc):	11^01'06"		
Length:	28.50		
Tangent:	14.25		
Chord:	28.49		
Middle Ordinate:	0.20		
External:	0.20		
Tangent Direction:	N 4^00'20"	E	
Radial Direction:	S 85^59'40"	E	
Chord Direction:	N 5^34'31"	E	
Radial Direction:	S 82^51'17"	E	
Tangent Direction:	N 7^08'43"	E	

Element: Clothoid

CS ( )	2176+52.74	1061994.8833	2764836.8427
SPI ( )	2176+62.74	1062004.8064	2764838.0866
ST ( )	2176+82.74	1062024.5719	2764841.1458
Entrance Radius:	520.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	1^39'10"	Right	
Constant:	124.90		

Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.29  
 P: 0.07  
 K: 15.00  
 Tangent Direction: N 7^08'43" E  
 Radial Direction: S 82^51'17" E  
 Chord Direction: N 8^14'49" E  
 Radial Direction: S 81^12'07" E  
 Tangent Direction: N 8^47'53" E

Element: Linear

ST ( ) 2176+82.74 1062024.5719 2764841.1458  
 TS ( ) 2176+83.25 1062025.0846 2764841.2251  
 Tangent Direction: N 8^47'53" E  
 Tangent Length: 0.52

Element: Clothoid

TS ( ) 2176+83.25 1062025.0846 2764841.2251  
 SPI ( ) 2177+03.26 1062044.8501 2764844.2843  
 SC ( ) 2177+13.25 1062054.7733 2764845.5282  
 Entrance Radius: 0.00  
 Exit Radius: 520.00  
 Length: 30.00  
 Angle: 1^39'10" Left  
 Constant: 124.90  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.29  
 P: 0.07  
 K: 15.00  
 Tangent Direction: N 8^47'53" E  
 Radial Direction: S 81^12'07" E  
 Chord Direction: N 8^14'49" E  
 Radial Direction: S 82^51'17" E  
 Tangent Direction: N 7^08'43" E

Element: Circular

SC ( ) 2177+13.25 1062054.7733 2764845.5282  
 PI ( ) 2177+27.51 1062068.9139 2764847.3009  
 CC ( ) 1062119.4531 2764329.5665  
 CS ( ) 2177+41.75 1062083.1305 2764848.2963  
 Radius: 520.00  
 Delta: 3^08'23" Left  
 Degree of Curvature(Arc): 11^01'06"  
 Length: 28.50  
 Tangent: 14.25  
 Chord: 28.49  
 Middle Ordinate: 0.20  
 External: 0.20  
 Tangent Direction: N 7^08'43" E  
 Radial Direction: S 82^51'17" E  
 Chord Direction: N 5^34'31" E  
 Radial Direction: S 85^59'40" E  
 Tangent Direction: N 4^00'20" E

Element: Clothoid

CS ( ) 2177+41.75 1062083.1305 2764848.2963  
 SPI ( ) 2177+51.75 1062093.1068 2764848.9949  
 ST ( ) 2177+71.75 1062113.0909 2764849.8160  
 Entrance Radius: 520.00  
 Exit Radius: 0.00  
 Length: 30.00  
 Angle: 1^39'10" Left  
 Constant: 124.90  
 Long Tangent: 20.00  
 Short Tangent: 10.00  
 Long Chord: 30.00  
 Xs: 30.00  
 Ys: 0.29  
 P: 0.07  
 K: 15.00  
 Tangent Direction: N 4^00'20" E  
 Radial Direction: S 85^59'40" E  
 Chord Direction: N 2^54'13" E

Radial Direction:	S	87^38'50"	E	
Tangent Direction:	N	2^21'10"	E	
Element: Linear				
ST ( )		2177+71.75	1062113.0909	2764849.8160
TS ( )		2178+35.83	1062177.1130	2764852.4463
Tangent Direction:	N	2^21'10"	E	
Tangent Length:		64.08		
Element: Clothoid				
TS ( )		2178+35.83	1062177.1130	2764852.4463
SPI ( )		2178+55.83	1062197.0964	2764853.2673
SC ( )		2178+65.83	1062207.0813	2764853.8205
Entrance Radius:		0.00		
Exit Radius:		1050.00		
Length:		30.00		
Angle:		0^49'07"	Right	
Constant:		177.48		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.14		
P:		0.04		
K:		15.00		
Tangent Direction:	N	2^21'10"	E	
Radial Direction:	S	87^38'50"	E	
Chord Direction:	N	2^37'32"	E	
Radial Direction:	S	86^49'44"	E	
Tangent Direction:	N	3^10'16"	E	
Element: Circular				
SC ( )		2178+65.83	1062207.0813	2764853.8205
PI ( )		2178+93.02	1062234.2353	2764855.3250
CC ( )			1062148.9958	2765902.2127
CS ( )		2179+20.21	1062261.2750	2764858.2331
Radius:		1050.00		
Delta:		2^58'02"	Right	
Degree of Curvature(Arc):		5^27'24"		
Length:		54.38		
Tangent:		27.20		
Chord:		54.37		
Middle Ordinate:		0.35		
External:		0.35		
Tangent Direction:	N	3^10'16"	E	
Radial Direction:	S	86^49'44"	E	
Chord Direction:	N	4^39'17"	E	
Radial Direction:	S	83^51'41"	E	
Tangent Direction:	N	6^08'19"	E	
Element: Clothoid				
CS ( )		2179+20.21	1062261.2750	2764858.2331
SPI ( )		2179+30.21	1062271.2179	2764859.3024
ST ( )		2179+50.21	1062291.0709	2764861.7250
Entrance Radius:		1050.00		
Exit Radius:		0.00		
Length:		30.00		
Angle:		0^49'07"	Right	
Constant:		177.48		
Long Tangent:		20.00		
Short Tangent:		10.00		
Long Chord:		30.00		
Xs:		30.00		
Ys:		0.14		
P:		0.04		
K:		15.00		
Tangent Direction:	N	6^08'19"	E	
Radial Direction:	S	83^51'41"	E	
Chord Direction:	N	6^41'03"	E	
Radial Direction:	S	83^02'35"	E	
Tangent Direction:	N	6^57'25"	E	
Element: Linear				
ST ( )		2179+50.21	1062291.0709	2764861.7250
TS ( )		2181+28.39	1062467.9477	2764883.3081
Tangent Direction:	N	6^57'25"	E	
Tangent Length:		178.19		
Element: Clothoid				

TS ( )	2181+28.39	1062467.9477	2764883.3081
SPI ( )	2181+48.39	1062487.8011	2764885.7306
SC ( )	2181+58.39	1062497.7552	2764886.6934
Entrance Radius:	0.00		
Exit Radius:	600.00		
Length:	30.00		
Angle:	1^25'57"	Left	
Constant:	134.16		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.25		
P:	0.06		
K:	15.00		
Tangent Direction:	N 6^57'25"	E	
Radial Direction:	S 83^02'35"	E	
Chord Direction:	N 6^28'46"	E	
Radial Direction:	S 84^28'31"	E	
Tangent Direction:	N 5^31'29"	E	

Element: Circular

SC ( )	2181+58.39	1062497.7552	2764886.6934
PI ( )	2181+61.81	1062501.1524	2764887.0220
CC ( )		1062555.5195	2764289.4805
CS ( )	2181+65.22	1062504.5531	2764887.3119
Radius:	600.00		
Delta:	0^39'07"	Left	
Degree of Curvature(Arc):	9^32'57"		
Length:	6.83		
Tangent:	3.41		
Chord:	6.83		
Middle Ordinate:	0.01		
External:	0.01		
Tangent Direction:	N 5^31'29"	E	
Radial Direction:	S 84^28'31"	E	
Chord Direction:	N 5^11'55"	E	
Radial Direction:	S 85^07'38"	E	
Tangent Direction:	N 4^52'22"	E	

Element: Clothoid

CS ( )	2181+65.22	1062504.5531	2764887.3119
SPI ( )	2181+75.22	1062514.5176	2764888.1614
ST ( )	2181+95.22	1062534.4822	2764889.3617
Entrance Radius:	600.00		
Exit Radius:	0.00		
Length:	30.00		
Angle:	1^25'57"	Left	
Constant:	134.16		
Long Tangent:	20.00		
Short Tangent:	10.00		
Long Chord:	30.00		
Xs:	30.00		
Ys:	0.25		
P:	0.06		
K:	15.00		
Tangent Direction:	N 4^52'22"	E	
Radial Direction:	S 85^07'38"	E	
Chord Direction:	N 3^55'04"	E	
Radial Direction:	S 86^33'35"	E	
Tangent Direction:	N 3^26'25"	E	

Element: Linear

ST ( )	2181+95.22	1062534.4822	2764889.3617
POE ( )	2184+82.37	1062821.1124	2764906.5935
Tangent Direction:	N 3^26'25"	E	
Tangent Length:	287.15		