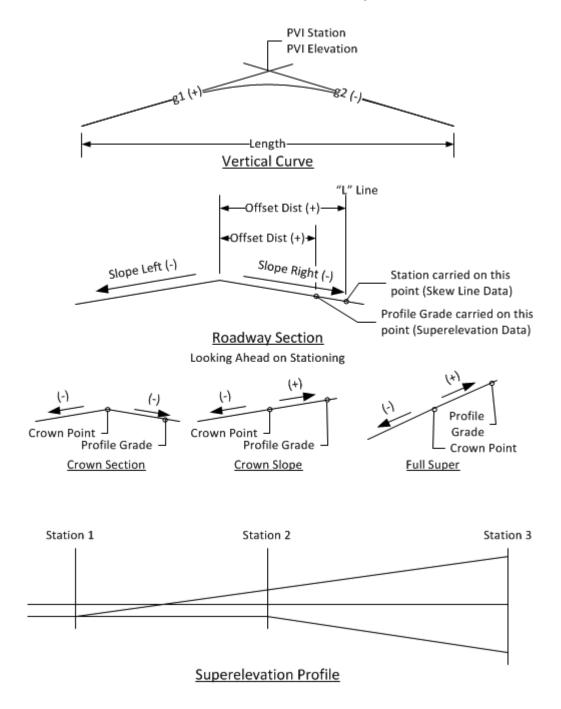
BEToolboxTM

CURVEL - Vertical Curve Calculations

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Version 2.0.0.0 - Built on May 13 2013



Vertical Curve Data

PVI Station = 301+50.00 PVI Elevation = 102.370 ft Length = 400.000 ft g1 = 2.3800% g2 = -4.1600%

Superelevation Data

Station	Left Slope (ft\ft)	Right Slope (ft\ft)			
296+97.10	-0.0200	-0.0200			
298+77.10	0.0200	-0.0200			
301+92.10	0.0900	-0.0900			

The profile grade point is 12.000 ft R of crown point

Vertical Curve Elevations

	Station	Profile Grade Elevation (ft)	Grade (%)	Offset from Crown (ft)	Crown Offset Elevation (ft)	Crown Slope Left (ft\ft)	Crown Slope Right (ft\ft)
BVC	299+50.00	97.610	2.3800	0.000	98.044	0.0362	-0.0362
EVC	303+50.00	94.050	-4.1600	0.000	95.130	0.0900	-0.0900
Low	303+50.00	94.050	-4.1600	0.000	95.130	0.0900	-0.0900
High	300+95.57	99.342	0.0000	0.000	100.165	0.0685	-0.0685

Skew Line Elevations

Skew Angle	Radius (ft)	Crown Offset (ft)	L-Line Station	Skew Distance (ft)	Offset Point Station	Profile Grade Elevation (ft)	Grade (%)	Offset from Crown (ft)	Crown Offset Elevation (ft)	Crown Slope Left (ft\ft)	Crown Slope Right (ft\ft)
7° 00' 30.00" L	2100.000 R	4.000 L	286+40.00	28.208 L	286+36.60	66.351	2.3800	32.000 L	65.951	-0.0200	-0.0200
0° 00' 00.00" L	0.000	0.000	290+00.00	17.000 L	290+00.00	75.000	2.3800	17.000 L	74.900	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 R	4.000 L	286+40.00	32.000 L	286+36.16	66.341	2.3800	35.765 L	65.865	-0.0200	-0.0200
0° 00' 00.00" L	0.000	0.000	29+00.00	17.000 L	29+00.00	-546.180	2.3800	17.000 L	-546.280	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 R	4.000 R	286+40.00	36.266 L	286+35.65	66.329	2.3800	32.000 L	65.929	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 R	4.000 R	286+40.00	32.000 L	286+36.16	66.341	2.3800	27.765 L	66.025	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 R	4.000 L	286+40.00	36.275 R	286+44.50	66.539	2.3800	32.000 R	66.139	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 R	4.000 L	286+40.00	32.000 R	286+43.96	66.526	2.3800	27.758 R	66.211	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 R	4.000 R	286+40.00	28.213 R	286+43.48	66.515	2.3800	32.000 R	66.115	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 R	4.000 R	286+40.00	32.000 R	286+43.96	66.526	2.3800	35.758 R	66.051	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 L	4.000 L	286+00.00	28.213 L	285+96.52	65.397	2.3800	32.000 L	64.997	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 L	4.000 L	286+00.00	32.000 L	285+96.04	65.386	2.3800	35.758 L	64.911	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 L	4.000 R	286+00.00	36.275 L	285+95.50	65.373	2.3800	32.000 L	64.973	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 L	4.000 R	286+00.00	32.000 L	285+96.04	65.386	2.3800	27.758 L	65.071	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 L	4.000 L	286+00.00	36.266 R	286+04.35	65.583	2.3800	32.000 R	65.183	-0.0200	-0.0200
7° 00' 00.00" L	2100.000 L	4.000 L	286+00.00	32.000 R	286+03.84	65.571	2.3800	27.765 R	65.256	-0.0200	-0.0200
7°00'00.00" R	2100.000 R	4.000 L	286+00.00	28.207 L	286+03.39	65.561	2.3800	32.000 L	65.161	-0.0200	-0.0200
7°00'00.00" R	2100.000 R	4.000 L	286+00.00	32.000 L	286+03.84	65.571	2.3800	35.765 L	65.096	-0.0200	-0.0200

Skew Angle	Radius (ft)	Crown Offset (ft)	L-Line Station	Skew Distance (ft)	Offset Point Station	Profile Grade Elevation (ft)	Grade (%)	Offset from Crown (ft)	Crown Offset Elevation (ft)	Crown Slope Left (ft\ft)	Crown Slope Right (ft\ft)
7°00'00.00" R	2100.000 R	4.000 R	286+00.00	36.266 L	286+04.35	65.583	2.3800	32.000 L	65.183	-0.0200	-0.0200
7°00'00.00" R	2100.000 R	4.000 R	286+00.00	32.000 L	286+03.84	65.571	2.3800	27.765 L	65.256	-0.0200	-0.0200
7°00'00.00" R	2100.000 R	4.000 R	286+00.00	28.213 R	285+96.52	65.397	2.3800	32.000 R	64.997	-0.0200	-0.0200
7°00'00.00" R	2100.000 R	4.000 R	286+00.00	32.000 R	285+96.04	65.386	2.3800	35.758 R	64.911	-0.0200	-0.0200
7°00'00.00" R	2100.000 L	4.000 L	286+00.00	36.266 R	285+95.65	65.377	2.3800	32.000 R	64.977	-0.0200	-0.0200
7°00'00.00" R	2100.000 L	4.000 L	286+00.00	32.000 R	285+96.16	65.389	2.3800	27.765 R	65.073	-0.0200	-0.0200
7°00'00.00" R	2100.000 L	4.000 R	286+00.00	36.275 L	286+04.50	65.587	2.3800	32.000 L	65.187	-0.0200	-0.0200
7°00'00.00" R	2100.000 L	4.000 R	286+00.00	32.000 L	286+03.96	65.574	2.3800	27.758 L	65.259	-0.0200	-0.0200