

HORIZONTAL & VERTICAL CONTROL



Chain I39_D2 contains:
 1040660 CUR 10406200 CUR 10406210 CUR 10406220 CUR 10406230 CUR 120061240 CUR -
 A044200 CUR A044210 CUR A044220 CUR A0441280 CUR A044230 CUR A044240 CUR A04425-
 0 CUR A044260 CUR 02702200 CUR 02702210 CUR 02702220 1251220 1251230 1251240 CU-
 R 125001200 CUR 12500200 12500210 CUR 12500220 CUR 12500230 1251002

Beginning chain I39_D2 description
 =====

Point 1040660 N 1,803,840.7746 E 2,598,823.6786 Sta 291+21.5271

Course from 1040660 to PC 10406200 359° 32' 46.5883" Dist 8,747.7560'

Curve Data

Curve 10406200
 P.I. Station 388+79.3412 N 1,813,598.2827 E 2,598,746.4073
 Delta = 0° 40' 19.4166" (RT)
 Degree = 0° 01' 59.7676"
 Tangent = 1,010.0581'
 Length = 2,020.0931'
 Radius = 172,220.8961'
 External = 2.9619'
 Long Chord = 2,020.0815'
 Mid. Ord. = 2.9619'
 P.C. Station 378+69.2831 N 1,812,588.2563 E 2,598,754.4059
 P.T. Station 398+89.3761 N 1,814,608.3335 E 2,598,750.2563
 C.C. N 1,813,952.0599 E 2,770,969.9020

Course from PT 10406200 to PC 10406210 0° 13' 06.0049" Dist 4,934.4789'

Curve Data

Curve 10406210
 P.I. Station 455+96.5619 N 1,820,315.4779 E 2,598,772.0044
 Delta = 15° 19' 18.0170" (RT)
 Degree = 0° 59' 50.5644"
 Tangent = 772.7069'
 Length = 1,536.1935'
 Radius = 5,744.6346'
 External = 51.7352'
 Long Chord = 1,531.6204'
 Mid. Ord. = 51.2734'
 P.C. Station 448+23.8550 N 1,819,542.7766 E 2,598,769.0598
 P.T. Station 463+60.0485 N 1,821,059.9374 E 2,598,979.0212
 C.C. N 1,819,520.8858 E 2,604,513.6527

Course from PT 10406210 to PC 10406220 15° 32' 24.0219" Dist 7,694.6665'

Curve Data

Curve 10406220
 P.I. Station 556+80.2761 N 1,830,039.4513 E 2,601,476.0141
 Delta = 31° 39' 41.0636" (RT)
 Degree = 0° 59' 57.9242"
 Tangent = 1,625.5611'
 Length = 3,167.9674'
 Radius = 5,732.8836'
 External = 226.0092'
 Long Chord = 3,127.8136'
 Mid. Ord. = 217.4371'
 P.C. Station 540+54.7150 N 1,828,473.3148 E 2,601,040.5081
 P.T. Station 572+22.6823 N 1,831,143.8953 E 2,602,668.7641
 C.C. N 1,826,937.4113 E 2,606,563.8183

Course from PT 10406220 to PC 10406230 47° 12' 05.0855" Dist 11,957.6534'

Curve Data

Curve 10406230
 P.I. Station 709+45.0908 N 1,840,467.2181 E 2,612,737.5349
 Delta = 48° 33' 56.9993" (LT)
 Degree = 1° 27' 53.1454"
 Tangent = 1,764.7551'
 Length = 3,315.6112'
 Radius = 3,911.6085'
 External = 379.6666'
 Long Chord = 3,217.2401'
 Mid. Ord. = 346.0759'
 P.C. Station 691+80.3357 N 1,839,268.2026 E 2,611,442.6518
 P.T. Station 724+95.9469 N 1,842,231.4729 E 2,612,695.5136
 C.C. N 1,842,138.3321 E 2,608,785.0142

Course from PT 10406230 to PC 120061240 358° 38' 08.0863" Dist 8,762.0900'

Curve Data

Curve 120061240
 P.I. Station 824+77.3443 N 1,852,210.0403 E 2,612,457.8428
 Delta = 0° 50' 38.7730" (LT)
 Degree = 0° 02' 04.6129"
 Tangent = 1,219.3075'
 Length = 2,438.5708'
 Radius = 165,524.4867'
 External = 4.4908'
 Long Chord = 2,438.5487'
 Mid. Ord. = 4.4907'
 P.C. Station 812+58.0369 N 1,850,991.0785 E 2,612,486.8762
 P.T. Station 836+96.6077 N 1,853,428.4420 E 2,612,410.8550
 C.C. N 1,847,049.7122 E 2,447,009.3208

Course from PT 120061240 to PC A044200 357° 47' 29.3133" Dist 8,882.7771'

Curve Data

Curve A044200
 P.I. Station 931+71.2791 N 1,862,896.0756 E 2,612,045.7346
 Delta = 1° 34' 41.8254" (RT)
 Degree = 0° 07' 59.9999"
 Tangent = 591.8943'
 Length = 1,183.7138'
 Radius = 42,971.8400'
 External = 4.0762'
 Long Chord = 1,183.6763'
 Mid. Ord. = 4.0758'
 P.C. Station 925+79.3847 N 1,862,304.6209 E 2,612,068.5441
 P.T. Station 937+63.0985 N 1,863,487.9341 E 2,612,039.2240
 C.C. N 1,863,960.6040 E 2,655,008.4644

Course from PT A044200 to PC A044210 359° 22' 11.1387" Dist 5,381.8786'

Curve Data

Curve A044210
 P.I. Station 996+57.1000 N 1,869,381.5790 E 2,611,974.3928
 Delta = 2° 23' 22.4237" (RT)
 Degree = 0° 14' 00.0005"
 Tangent = 512.1230'
 Length = 1,024.0975'
 Radius = 24,555.3200'
 External = 5.3398'
 Long Chord = 1,024.0233'
 Mid. Ord. = 5.3386'
 P.C. Station 991+44.9771 N 1,868,869.4870 E 2,611,980.0259
 P.T. Station 1001+69.0745 N 1,869,893.4606 E 2,611,990.1156
 C.C. N 1,869,139.5840 E 2,636,533.8604

Course from PT A044210 to PC A044220 1° 45' 33.5623" Dist 2,771.2093'

FILE NAME =	USER NAME = drossdd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-39 HORIZONTAL & VERTICAL CONTROL	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\PIWDOT\DOSSDD\0149531\0205829-shr-HVC.dgn		DRAWN -	REVISED -			39	(103-1, 103-2/RS)	LEE	313	75	
PLOT SCALE = 5000.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E97					
PLOT DATE = Fri Mar 26 07:23:52 2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:		SHEET NO. OF SHEETS		STA. TO STA.			