





product offering. Real world projects will be studied and with the use SurvPC 7 with advanced control survey field collection options is where we will start. From there we will take a look at processing GPS/GNSS baselines and how this is done within Carlson'S survey GNSS Post Processing Software. From there a discussion on Carlson Survey and the options for Least Squares Adjustment options in the popular Carlson Survey Software. Last but not least we will also review a feature that's been asked about by many of you, so we're doing a session on this as well! SurVPC's Trig Leveling functionality for level runs with your Total Station. The goal here is to do a live presentation and then review the data with you. Other subjects that we will cover is the workflow and how 'Your Data' can be used and evaluated for your Land Surveying Projects!



Carlson.	<u>Useful Links</u>
Carlson Software Website: www.carls	ionsw.com
Carlson Academy Learning Center:	https://account.carlsonsw.com/login
Carlson Software Knowledge Base A	rticles: https://web.carlsonsw.com/files/knowledgebase/kbase05.php
Carlson Software Manuals: https://we	b.carlsonsw.com/files/manuals/manuals05.php
Carlson Software YouTube Channel:	https://www.youtube.com/user/CarlsonSoftware/videos
Carlson Software Support Information	n: https://www.carlsonsw.com/support-and-training/
NGS Website Info:	
https://geodesy.noaa.gov/GEOID/GEOID18/	maps/geoid18_difference_conus.png
	mana/gaoid18 upportainty converper



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Cus

A quick access user hotlist is now A quick access user nousils is now available by double tapping in the bar. A selection of handy shortcu come preinstalled with the softwa and the user can customize the h using the gear icon in the top bar

Advanced users can even create own hotlist items using python scripting!

2	Command Hotlist		**
	View Data	Calculator	Tolerances
Ī	Points	Reconnect	Layers
Ē	Inverse	Carlson Cloud	Set Web Maps C
	Write Notes	Advanced Settings	Screenshot
Ī	Feature Codes	NGS Query	

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era	ging	Inter	face								
				R	emov	ve O	utlier	s Befor	re Sto	oring	
) Me	asurer	nents								X
	н	H Res	HRMS	V	V Res	VRMS	PDOP	Incline	latency	/ Туре	
1	V	0.012	0.004	\checkmark	-0.005	0.008	1.346	0°11'25"	2.0s	FIXED	
2	1	0.010	0.004	\checkmark	0.021	0.008	1.346	0°11'25"	2.0s	FIXED	
3	\checkmark	0.012	0.004	\checkmark	0.027	0.007	1.346	0°10'55"	1.0s	FIXED	
4	1	0.006	0.005	\checkmark	0.014	0.009	1.292	0°11'25'	2.0s	FIXED	•
N: E:	Aver: 4129 5488	age 530.33 714.42	69ft 28ft		Rang 0.038 0.048	e 34ft 36ft	Std D 0.006 0.005	eviation Oft 5ft	000 0030		Z







Carlson.

SURVNET IN THE FIELD BOUNDARY SURVEY CERTIFICATION

Field Procedures to reduce error

- **Dual baseline:** protects against wrong base setup or bad coordinate control
- Time Delay: protects against bad fix or multipath

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Settings ✓	Settings Control ☑ Include BP as control Add Control Points: Standard Errors: North: 0.01 ft East: 0.01 ft Elev. 0.04 PA Point Range: ALL Tolerance: 0.07 ft PPM: 100		Survnet	In The P	-ieid		
Control ⊘Include BP as control Add Control Points: Standard Errors: North: 0.01 ft East: 0.01 ft Elev. 0.04 ft RPA Point Range: ALL Tolerance: 0.07 ft PPM: 100 KY Rural ▼	Control ∑Include BP as control Add Control Points: Standard Errors: North: 0.01 ft East: 0.01 ft Elev. 0.04 f RPA Point Range: ALL Tolerance: 0.07 ft PPM: 100 KY Rural ▼	Settings	45.75			\checkmark	X
North: 0.01 ft East: 0.01 ft Elev. 0.04 ft RPA Point Range: ALL Tolerance: 0.07 ft PPM: 100 KY Rural ▼	North: 0.01 ft East: 0.01 ft Elev. 0.04 ft RPA Point Range: ALL	Control Control Include BP as con Standard Errors:	trol Add Cor	itrol Points:			
RPA Point Range: ALL Tolerance: 0.07 ft PPM: 100 KY Rural ▼	RPA Point Range: ALL Tolerance: 0.07 ft PPM: 100 KY Rural ▼	North: 0.01	ft East:	0.01	ft Elev. (0.04	ft
		RPA Point Range: ALL Tolerance: 0.07	ft PPM	: 100	KY	/ Rural	▼
Minimum Time Delta: 0.33 minutes Include Sideshots		Vector Std. Err. Facto	r: 0 [Auto Inst	rument Center	ing: 0.01	



Relative Point Accuracy: Best Practices BEST:

Two or more local bases, 20 min time difference (setup base, measure, move base, measure) Single base + Network Base (NOT VRS) with time difference Single base + VRS - time difference (measure VRS, set up base, measure with base) ACCEPTABLE:

Two baselines, no time difference (two bases are setup simultaneously) Single base + Network Base (NOT VRS) no time difference (measure both before moving) Single base + VRS- no time difference (measure both before moving to next point). ACCEPTABLE BUT ... May struggle to pass

-ocal base with time difference /RS with time difference – YES, but it may be harder to pass. Not ideal Network base with time difference NetWork base with time difference (with RTK Reset) Single base with NO time difference (with RTK Reset) Single base, no time difference, nor reset (just measure twice) NetWork base, no time difference, RTK Reset Network base, no time difference, RTK Reset Network base, no time difference, RTK Reset VRS, no time difference, INT RR Reset VRS, no time difference, NR RTK Reset VRS, no time difference, NR RTK Reset (just measure twice)

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$\langle \rangle$	Carlson. SurvNet In The Field
	🔊 Settings 🗸 🔀
	Control Include BP as control Add Control Points: Standard Errors:
	North: 0.01 ft East: 0.01 ft Elev. 0.04 ft RPA Point Range: ALL
	Tolerance: 0.07 ft PPM: 100 KY Rural ☑ Blunder Detection O2D ●3D Tolerance: 0.2 ft Minimum Time Delta: 0.33 minutes Include Sideshots
	Vector Std. Err. Factor: 0 Auto Instrument Centering: 0.01 ft

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	Useful Links – Again
	Carlson Software Website: www.carlsonsw.com
	Carlson Academy Learning Center: https://account.carlsonsw.com/login
	Carlson Software Knowledge Base Articles: https://web.carlsonsw.com/files/knowledgebase/kbase05.php
	Carlson Software Manuals: https://web.carlsonsw.com/files/manuals/manuals05.php
	Carlson Software YouTube Channel: https://www.youtube.com/user/CarlsonSoftware/videos
	Carlson Software Support Information: https://www.carlsonsw.com/support-and-training/
	NGS Website Info:
	https://geodesy.noaa.gov/GEOID/GEOID18/maps/geoid18_difference_conus.png
	https://geodesy.noaa.gov/GEOID/GEOID18/maps/geoid18 uncertainty conus.png

lot 🛐 🥖	B:20230802_AL	PHA-RTK_BMS				
Eile	Equip	Survey	COGO	Road	BIM	
1 Store Poi	ints	-	6 Feature Su	rvey	9:	
2 Stake Poi	ints	k _	Z Resection		8	
3 Stake Lin	e/Arc	V	8 Set Collect	ion	Ļ	
4 Stake Off	fset	V	9 Leveling	/	2	
5 Elev Diffe	erence					











Point Occupied	Ant Ht [m]	Start Time	Duration
5350	1.666	2023.08.08 13:43:13	0:47:06
7235	1.540	2023.08.08 14:01:39	1:05:14
7236	1.712	2023.08.08 14:43:17	1:18:13
7237	1.629	2023.08.08 15:37:02	0:58:35
7239	1.621	2023.08.08 16:14:16	0:51:34
5350	1.686	2023.08.08 16:45:32	1:23:24
7236	1.744	2023.08.08 17:17:17	0:18:05
7237	1.516	2023.08.08 17:45:29	0:19:57
5350	1.749	2023.08.08 18:18:31	0:36:57
7235	1.657	2023.08.08 18:29:03	1:01:17
7236	1.739	2023.08.08 19:06:58	0:59:29
7237	1.666	2023.08.08 19:43:30	0:58:34
7239	1.762	2023.08.08 20:22:10	0:49:16
5350	1.738	2023.08.08 20:51:34	1:29:02
7236	1.817	2023.08.08 21:24:10	0:20:21
7237	1.659	2023.08.08 21:54:37	0:19:53

	TOPOINT	ax(UFI)	6Y(UF1)	AZ(UFI)	Azimuth	Δ Height (UFT)	Vector Length (UFT
5350	7237	890.753	92.143	-166.180	103°58'53.3"	3.792	910.795
5350	7237	890.781	92.155	-166.187	103°58'52.3"	3.784	910.824
7236	7235	865.580	411.253	206.011	74°11'00.6"	2.070	980.203
7236	7235	865.623	411.306	205.845	74°11'24.2"	1.933	980.229
7237	7236	1627.425	792.751	399.612	73°34'57.2"	-2.784	1853.822
7237	7236	1627.449	792.858	399.579	73*34'54.8*	-2.879	1853.881
5350	7239	-1921.457	-1295.243	-906.201	241°50'14.9"	-9.866	2488.142
5350	7239	-1922.039	-1294.930	-906.208	241°50'54.6"	-10.219	2488.431
5350	7236	2518.172	884.998	233.418	83°29'05.3°	0.921	2679.346
5350	7236	2518.179	884.996	233.387	83°29'07.4"	0.904	2679.349
7237	7239	-2812.090	-1387.642	-740.031	252°46'12.6"	-13.450	3221.963
5350	7235	3383.792	1296.206	439.339	80°59'50.0"	2.975	3650.098
5350	7235	3383.879	1296.144	439.381	80°59'51.8"	3.065	3650.162

			Adjusted Gr Sta.	id Coordinates, N:	(US Feet) E:	Z (Geoid):	StErr N:	StErr E:	StErr Z
statistics			5350	420175.740	402103,870	37.620	0.005	0.005	0.005
statistics			7236	428470.123	484766.762	38.551	0.013	0.013	0.013
Solution conve	erged in 2	iteration	7235	420733.875	405710.742	40.592	0.016	0.016	0.016
Sourceon conve	Pro TH S	acci actone	7237	419952.513	402986.829	41.377	0.012	0.012	0.012
Total Observat	tions: 50		12.39	4150091309	555500,350	27.510	0.014	0.014	0.015
Total Unknowns	5: 15					S. 7	N 2		- / 1
Degrees of Fre	edom: 35								
Observation Co	ount Su	m Squares	Std. Error						
	of	StdRes	of Unit Wt.						
Coordinate:	3	0.000	0.000						
VertDiff:	8	19.652	1.873						
vector:	59	74.087	1.654		X				
locari	50	94.339	1.042						
Reference Vari	ance: 2.69	5							
Standard Error	· Unit Wei	eht: (+/-):	1,642						
Failed the Chi	-Square t	est at the	95.00 signifi	cance level	/				
			0						







			<u> </u>				
FIRST OC Entilio 7239	Latitude 29"58"59.94732"	Longitude -74°49'44.80805"	Elevation -22.0390	Desc 27239	Date 08-82-2823	Time 11:54:59	
7237	39*59*09.38094*	-74*49'05,27432*	-17.9595	8844	08-02-2023	12:53:04	
7236	39*59'14.55829*	-74*48*42.43829*	-18.7786	8843	08-02-2023	13:15:15	
7235	39*59'17.19675"	-74*48'30.31220*	-18-1721	3 P 3	08-02-2023	13:23:02	
5350	39*59*11.55464*	-74*49'16.62944"	-19.0858	HAINESPORT	08-02-2023	13:33:11	
SECOND C Entilio 7239	CCUPATION Latitude 39"58'59.94835"	Longitude -74°49'44.00893"	Elevation -22.0796	Desc 27239	Date 08-02-2023	Time 13:45:53	
7237	39*59*09.38115*	-74*49*05.27508*	-17.9079	8844	08-02-2023	14:12:01	
7236	39*59*14.55755*	-74*48'42,42849*	-18.8707	8843	08-02-2023	14:19:13	
7235	39*59*17.19677*	-74*48*30.31202*	-18.2381	3 9 3	08-02-2023	14:26:29	
5350	29*59'11.55501"	-74*49*16.62934*	-19,1504	HAINESPORT	08-02-2023	14:39:36	
THIRD OC PhtNo 7239	CUPATION Latitude 39"58'59.94909"	Longitude -74"49'44.00041"	Elevation -21.9063	Desc 27239	Date 08-02-2023	Time 16:21:02	
7237	39*59*09.38058*	-74*49'05.27480"	-17,9762	8844	08-02-2023	16:30:01	
7236	39*59*14.55840*	-74*48'42.42964*	-18,8472	8843	08-02-2023	16137118	
7235	29*59*17.19708*	-74*48'30,31115*	-18,2509	3 9 3	05-02-2023	15:46:06	
5350	29*59'11.55553"	-78749116.62965*	-19,1464	HAINESPORT	08-02-2023	16:57:21	









risk ccustorie function complete function function 723 $2^{10}2^{10}15^{10}3^{10}3^{10}$ $1^{10}2^{10}15^{10}3^{10}3^{10}$ $1^{10}2^{10}15^{10}3^{10}3^{10}3^{10}$ $1^{10}2^{10}15^{10}3^{10}$	FIRST OCCUPATION Congitude Elevation Desc Date Time 2025 2975717.19099* -72.4219.31169* -18.2000 3.9.3 07.27.2023 11.01.03	
Intege Latitized Long Lucke Clearation Beck Bate Beck Be	Entitio Latitude Longitude Elevation Desc Date Time 7235 39 ⁶ 59 ⁴ 17.19609 ¹¹ -74 ⁸ 68 ³ 38.3166 ¹¹ -18.2003 3 P 3 07-27-2023 11:01:03	
2138 295°51 (35.5584) -747°45 (35.4282) -18.356 48.00 0.727.202 11.22.00 7237 395°35 (95.5684) -747°45 (95.7421) -17.5484 64.00 07.27.202 11.22.00 7237 395°35 (95.6861) -747°45 (95.7421) -17.5484 64.00 07.27.202 11.22.00 7238 395°35 (95.6861) -747°45 (95.6961) -747°45 (95.6961) 65.00 727.202 12.00 7239 395°45 (95.6862) -747°45 (95.6962) -748°45 (95.6962) 120.40 97.97 12.01 7239 395°45 (95.6862) -747°45 (95.6862) -747°45 (95.6762) 120.80 B64 07.27.202 120.40 7239 395°45 (95.6862) -747°45 (95.4762) -72.666 22.00 27.27.202 13.010 7239 395°45 (95.6862) -747°45 (95.4762) -72.666 22.066 27.72.023 13.010 7239 395°45 (95.6862) -747°45 (95.4762) -72.666 27.72.023 13.010 7240 20.956 395°45 (95.6862) -747°45 (95.4762)		
2123 29% 95,98837 -744 95 4-,98837 -72,984 95 -72,984 50 10,984,44 0,97,74203 10,184,47 17238 39% 36 95,954837 -74% 95 4-,488987 -72,944 50 097,273 07,77,2423 12,254,68 10000 ECCURATION monthlash monthlash ECCURATION 10,997 12,354,99 7239 39% 95 (15,250)7 74% 95 (14,260) -54,435 (14,998) 94,97 (27,232) 12,244,98 7239 39% 95 (15,250)7 74% 95 (14,240)27 -10,330 844.4 97,27,2823 13,131,01 7239 29% 95 (95,480)7 -74% 95 (14,240)27 -22,486 97,27,2823 13,131,01 7239 29% 95 (95,21,180)7 -74% 95 (14,240)27 -22,486 97,27,2823 13,131,01 7239 29% 95 (95,12,180)7 -74% 95 (14,490)27 -22,486 97,27,2823 13,131,01 7230 29% 95 (95,12,180)7 -74% 95 (14,490)27 -22,486 97,27,2823 13,131,01 7240 29% 95 (95,12,110)7 -74% 95 (14,100)27 -74,100 14,122,112 14,123,112 <td>7236 39*59*14.55840* -74*48*42.42825* -18.8264 8843 07-27-2823 11:22:08</td> <td></td>	7236 39*59*14.55840* -74*48*42.42825* -18.8264 8843 07-27-2823 11:22:08	
7239 95% 56 '59, 54833' -74 '89 '44, 40888' -22, 445 977239 97 -27, 2623 32, 256, 688 KCD00 CCC01171 Fragmann Clearation Sec. Bate Ba	7237 39*59*09.38031* -74*49*05.27411* -17.9674 8844 07-27-2823 11:48:47	
stream constraint Constraint<	7239 39*58*59.94835* -74*49*44.80802* -22.0445 087239 07-27-2023 12:26:08	
Integra Lotticate Longitude Cleanting Desc. Date Time 7230 29 ⁴⁵ 9 ⁴ 17.397.397 74 ⁴⁴ 18.348.097 3-10.293 9.43 9.797.2982 12.144.00 7239 29 ⁴⁵ 9 ⁴ 1.397.397 74 ⁴⁶ 18 ⁴ 0.428.087 -10.2982 4.64 0.727.202 12.144.00 7237 29 ⁴⁵ 9 ⁴ 9.3687 ⁴ -74 ⁴⁶ 18 ⁴ 0.428.087 -10.3982 4.64 0.727.202 13.108.01 7237 29 ⁴⁵ 9 ⁴⁵ 9.5687 ⁴ -74 ⁴⁶ 18 ⁴ 0.428.087 -10.3062 -077.27020 13.138.01 7239 29 ⁴⁵ 9 ⁴⁵ 9.568.01 -74 ⁴⁶ 18 ⁴ 0.472.01 ² -20.4062 2709 -077.27020 13.138.01 7249 26 ⁴⁵ 9 ⁴⁵ 9.568.01 -14 ⁴⁵ 18 ⁴ 6.471.108 -14.1108 -10.1108 -10.1108 7259 29 ⁴⁵ 9 ⁴⁵ 1.558.01 -14 ⁴ 139 ⁴ 6.41.1108 -14.1108 -07.77282 13.138.01 7259 29 ⁴⁵ 9 ⁴⁵ 1.558.01 -74 ⁴⁶ 16 ⁴ 0.41.1108 -14.1108 -07.77282 13.138.01 7259 29 ⁴⁵ 1 ⁴ 1.558.01 -74 ⁴⁶ 16 ⁴ 1.018.01 -14.1108 -77.77282 13.138.01	SECOND OCCUPATION	
7236 99 ⁴⁵ 9 ⁴⁵ 14.55803 ⁷ -74 ⁴⁶ 8 ⁴⁵ 24.04265 ⁶ -18.4330 84.51 97.27.2423 12.532.033 7237 29 ¹⁵ 9 ⁴⁵ 9.3680 ⁴⁷ -74 ⁴⁶ 8 ⁴⁵ 24.04265 ⁶ -17.960 84.64 47.27.2423 12.532.033 7249 29 ¹⁵⁶ 9 ⁴⁵ 9.5680 ⁴⁷ -74 ⁴⁶ 8 ⁴⁵ 4.04265 ⁶ -17.960 84.64 47.27.2423 13.013.04 7249 9 ¹⁵⁶ 9 ⁴⁵ 5.0642 ⁴⁷ -74 ⁴⁶ 8 ⁴⁵ 4.04265 ⁶ -74 ⁴⁶⁶ 8 ⁴⁵ 4.0426 ⁴⁵ -72.9662 23.72 97.27.2423 13.013.04 FNDB CONTINE Linglitude Linglitude Linglitude 141.2045 ⁴ -74.941 ⁴ 4.0426.045 -74.941 ⁴ 4.0426.045 141.205 13.013.01 7239 3 ¹⁵⁷ 17.129993 ¹¹ 4.1299 ⁴¹ 3.0110 ⁴¹ -14.205 ¹¹ 3.01 73.3 79.77-2623 13.753.01 7249 3 ¹⁶⁷ 14.1598 ⁴¹ 4.01.159 ⁴¹ -14.914 ⁴¹ 4.01 -14.914 ⁴¹ 4.01 -77.7263 13.753.01	PhtNe Latitude Longitude Elevation Desc Date Time 7235 39"59"17.19759" -74"48"30.31009" -10.2393 3 P 3 07-27-2023 12:44:00	
2227 29 ¹⁰ ************************************	7236 39*59*14.55837* -74*48*42.42826* -18.8382 8843 07-27-2023 12:52:03	
72.99 39 ⁶ 56' 59-5482'' -74'40' 44.00721'' -72.0662 272.99 07-27-2823 33.13.101 INDED OCONFIDE IntEl DOCONFIDE 7235 29 ⁶ 56' 10-562 Longitude Longitude Elevation Desc 142.107 Detc Take 10-77-2823 Distance 7235 29 ⁶ 26' 10-5586' -74'8'44' 70-1139'' -142.107 P - 3 P7-72823 Distance 7295 9 ⁶ 26' 10-5586'' -74'8'44'' 70-0686'' -74'84''' -74'84'''' -74'84''''''''''''''''''''''''''''''''''	7237 39*59*09.38076* -74*49*05.27426* -17.9888 8844 07-27-2823 13:08:04	
THEM CONTINUE Longitude Cleveling Date Take 2235 1979/17, 1990% -74*43% 51137% -14:229 3 9 07:27283 13:726:31 7295 1979/17, 14:390% -74*43% -15:826 -15:826 11:15:537	7239 39*58'59.94827" -74*49'44.80721" -22.0662 27239 07-27-2023 13:13:01	
Dittle Latitude Longitude Clevation Date Time 7235 39'99'17.19693'' -74'48'98.3119'' -18.2197'' 3 9 9'7-27-2823 1312631 7236 39'99'16.55814'' -74'48'42.42864'' -18.8147'' 884 9'7-27-2823 1312514''	THTRD OCCUPATION	
7236 39*59*14.55814* -74*48*42.42864* -18.8147 8843 07-27-2023 13:35:47	Entitio Latitude Longitude Elevation Desc Date Time 7235 39*59*17.19693* -74*48*38.31139* -18.2197 3 P 07-27-2023 13:20:31	
	7236 39*59*14.55814* -74*48'42.42864* -18.8147 8843 07-27-2023 13:35:47	
7237 10*50*00.18057* .74*40*05.27425* .17.9640 8844 87.27.2023 11:44:31	7237 39*59*09.38857* -74*49*05.27425* -17.9648 8844 07-27-2823 13:44:31	
	Hillio CXCUA/104 Longitude Elevation Date Time 7235 99"59"17.15903" -72"48"38.31119" -88.2197 3 P 3 0".27"-2823 13720-131 7236 39"59"14.55814" -74"-68"42.42864" -18.8147 884.3 0".27"-2823 131:35:147	









































B C D E F G H I J K L M BBRT,RIN,Oug,Sta,Ooc,SV 77,4/aba-RIK,RIN,Ong,2nd,Occ,SV 27040cmm/sta 10c0 POR 0000 POR 0000,000,000,000,000 POR 0000,000,000,000,000 POR 0000 POR 00000 POR 00000 POR 0	M N t minus 1st Occ De Dz
NT NORTH EAST ELEV DESIGNATION PD PONT NORTH EAST ELEV D 0 000 02 59 42017574 402103.87 37.62 HANRSPORT DI5530 5530 420175.74 402103.87 37.62 0.000 5 420733.84 40571.05 40.558 0.000	De Dz
50 420175.74 402103.87 37.62 HAINESPORT D15350 5350 420175.74 402103.87 37.62 0.000 0.000 35 420733.88 405710.75 40.587 3 P.3 DM7235 7235 420733.85 405710.76 40.583 -0.034 0.006	
35 420733.88 405710.75 40.587 3 P3 DM7235 7235 420733.85 405710.76 40.583 -0.034 0.006	000.0 000.0 00
	34 0.006 -0.004
36 420470.2 404766.68 38.605 8843 DM7236 7236 420470.09 404766.81 38.515 -0.112 0.132	12 0.132 -0.090
37 419952.63 402966.66 41.306 8844 DM/237 7237 419952.62 402966.6 41.687 -0.016 -0.067	16 -0.067 0.381
29 413009/3 389906/37 27/346 27/239 DH/239 7/239 413009/34 389906/36 20.02 0.036 0.005	35 0.005 0.102







































	S	urvPC	7 E	xampl	e	
Settings						X
Control	P as control	Add Cor	ntrol Point	s:		
North: 0	0.005	ft East:	0.005	ft Ele	ev: 0.02	ft
Relative Posi Point Range: Tolerance:	All	cy	. 50		TA /NCDC	_
Blunder D	etection	O2D ()3D	Tolerance:	0.1	f
Vector Std. E	rr. Factor:	0.01	Auto	Instrument C	entering: 0.	.01 f

			Sur	vPC7	E	xample	
R	esults	s: 230216	-A-CRO	NSWOODS-	ІК	E 7 (
I	Resul	ts	Poi	ints Used		Adj.Crd	Contro
7	2	0.0164	0.0360	9	2	31.5	
7	2	0.0164	0.0360	9	2	31.5	
	3	0.0104	0.0294	8	2	31.3	
1	4	0.0181	0.0192	8	2	32.5	

