

Conventional Differential Leveling Reduction & Adjustment

2001 Geodetic Control Densification

of

Jefferson County, Kentucky



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2410-001

LOJIC

11/6/01

2001 Geodetic Control Densification of Jefferson County, Kentucky
 Conventional Differential Leveling, Reduction & Adjustment
 NAVD 88 - U.S. Feet

LOOP 1

1	BOWMAN RM 2	NGS BM						+537.47	
		-0.08	01-28-19	1/1					
2	BOWMAN RESET 19	NGS MON			+537.39	+0.00	+537.39		TP
		+0.08	01-28-19	2/1					
1	BOWMAN RM 2	NGS BM			+537.47	+0.00	+537.47		

ERROR = -0.00/2 Turns => +0.00049 Correction / Turn ALLOWABLE ERROR = +0.02

LOOP 2

3	H 323	NGS BM						+429.78	
		+1.45	01-28-20	3/3					
4	H 323 ECC	TBM			+431.23	-0.01	+431.22		TP
		-1.43	01-28-20	6/3					
3	H 323	NGS BM			+429.80	-0.02	+429.78		

ERROR = +0.02/6 Turns => -0.00267 Correction / Turn ALLOWABLE ERROR = +0.04

LOOP 3

5	J 334	NGS BM						+438.51	
		+3.21	01-28-21	3/3					
6	J 334 ECC	TBM			+441.72	-0.00	+441.72		TP
		-3.20	01-28-21	5/2					
5	J 334	NGS BM			+438.52	-0.01	+438.51		

ERROR = +0.01/5 Turns => -0.00161 Correction / Turn ALLOWABLE ERROR = +0.04

LOOP 4

7	31 K	NGS BM						+449.03	
		-2.68	01-28-22	2/2					
8	31 K ECC	TBM			+446.35	-0.00	+446.34		TP
		+2.69	01-28-22	4/2					
7	31 K	NGS BM			+449.03	-0.00	+449.03		

ERROR = +0.00/4 Turns => -0.00025 Correction / Turn ALLOWABLE ERROR = +0.03

LOOP 5

9	489.78 RM USGS	NGS BM						+489.01	
		+1.74	01-28-23	2/2					
10	489.78 ECC	TBM			+490.75	-0.01	+490.74		TP
		-1.72	01-28-23	4/2					
9	489.78 RM USGS	NGS BM			+489.04	-0.03	+489.01		

ERROR = +0.03/4 Turns => -0.00626 Correction / Turn ALLOWABLE ERROR = +0.03

LOOP 6

11	AZ862ECC	GPS ELEV						+433.92	
		-2.53	01-28-24	1/1					
13	AZI862-2001	NEW MON			+431.39	+0.00	+431.40		TP
		+2.28	01-28-24	2/1					
12	GPS86 2	GPS ELEV			+433.68	+0.00	+433.68		

ERROR = -0.00/2 Turns => +0.00200 Correction / Turn ALLOWABLE ERROR = +0.02

LOOP 7

14	8628 ECC	GPS ELEV						+663.58	
		-0.10	01-28-26	1/1					
15	GPS86 28	MSD MON			+663.48	-0.01	+663.48		TP
		+0.11	01-28-26	2/1					
14	8628 ECC	GPS ELEV			+663.59	-0.01	+663.58		

ERROR = +0.01/2 Turns => -0.00500 Correction / Turn ALLOWABLE ERROR = +0.02

LOOP 8

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16 BT2301EC      GPS ELEV                +458.60  
    +1.21      01-28-28      1/1  
17 BT23 02      MSD MON                +459.81  +0.00  +459.81  TP  
    -1.21      01-28-28      2/1  
16 BT2301EC      GPS ELEV                +458.60  +0.00  +458.60  
-----  
ERROR = +0.00/2 Turns => +0.00000 Correction / Turn ALLOWABLE ERROR = +0.02
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