

Differential Levelling Field Book

Annex 1

Project: Exampleproject

Survey: Examplesurvey 4

Created: 29 Mar 2022, 03:19 pm

Notes: Sunny, 13 degrees

Table of Points:

	Name Point	Backsight¹	Intermed. Sight¹	Foresight¹	Height Benchm.¹	Rise / Fall¹	Reduced Level¹	Adjustment¹	Adjusted RL¹	Remarks
1	BM 29	0.581			79.594		79.594		79.594	Manhole cover, Castle St. 5
2	TP 1	1.326		2.004		-1.423	78.171	0.000	78.171	
3	TP 2	1.115		1.072		+0.254	78.425	-0.001	78.424	
4	NP 1		2.998			-1.883	76.542	0.000	76.541	
5	NP 2		3.638			-0.640	75.902	0.000	75.901	
6	NP 3		3.526			+0.112	76.014	0.000	76.013	
7	NP 4		2.469			+1.057	77.071	0.000	77.070	
8	TP 3	1.820		1.778		+0.691	77.762	0.000	77.761	
9	TP 4	1.564		0.594		+1.226	78.988	-0.001	78.986	
10	TP 5	2.900		1.205		+0.359	79.347	0.000	79.345	
11	BM 142			0.668	81.576	+2.232	81.579	-0.001	81.576	

Error evaluation:

Section	Sum Backsights¹	Sum Foresights¹	ΣBacksights - ΣForesights¹	Nominal Value (Difference from both Benchmarks)¹	Misclosure (mm)	Length of Section s (km)	Allowable Misclosure according Formula $10 * \sqrt{s}$ (mm)
BM 29 to BM 142	9.306	7.321	1.985	1.982	3	0.130	3.6 (fallen below -> Ok)

¹ Unit: m

Firm:	XYZ Construction Ltd., Anystreet 10, 12345 Anytown	
Surveyor:	Smith	Instrument: Opt. Level 01