

***GTA 05-02-031**

**LEVELING SPECIFICATIONS
FIELD PROCEDURES**

Purpose: Use this GTA when performing leveling. See FM 3-34.331 for more information.

Order	First	First	Second	Second	Third
Class	I	II	I	II	
Maximum difference fore/back sight per setup (m)	2	5	5	10	10
per section (m)	4	10	10	10	10
Maximum sight length (m)	50	60	60	70	90
Minimum ground clearance of line of sight	0.5	0.5	0.5	0.5	0.5
Temperature required	Yes	Yes	Yes	No	No
Difference between top and bottom intervals (m)	0	0	0.002	0.002	0.003
Maximum section misclosure (mm)*	$3\sqrt{K}$	$4\sqrt{K}$	$6\sqrt{K}$	$8\sqrt{K}$	$12\sqrt{K}$
Maximum loop misclosure (mm)*	$4\sqrt{K}$	$5\sqrt{K}$	$6\sqrt{K}$	$8\sqrt{K}$	$12\sqrt{K}$
*Shortest distance					

Headquarters, Department of the Army
February 2001

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*This publication supersedes GTA 5-2-31, August 1987.

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Order	First	First	Second	Second	Third
Class	I	II	I	II	
Minimal observation method	Micro-meter	Micro-meter	Micrometer or 3-wire	3-wire	Center wire
Even numbers of setups	yes	yes	yes	yes	yes
3-wire method difference between top and bottom intervals	NA	NA	2	2	3
...Read rod 1 first in alternate setup method	NA	NA	yes	yes	yes

NA = not applicable