

Sec. 20-300b-11. Classes of accuracy

(a) All surveys prepared in metric format shall use: 1 meter = 3.28083333 U.S. Survey feet.

(b) Horizontal Accuracy

Each survey depicting horizontal locations shall conform to a Horizontal Accuracy Class the tolerance of which is defined as follows:

Class	Positional	Linear			Angular
		Feet	Meters	(Use the ratio for D>...)	
AA	1:15,000	±0.01’	±.003m	(1:22,500 @D>225’(69m))	±8”
A-1	1:10,000	±0.01’	±.003m	(1:15,000 @D>150’(46m))	±10”
A-2	1:5,000	±0.02’	±.006m	(1:7,500 @D>150’(46m))	±20”
B	1:1,000	±0.5’	±.15m	(1:1,500 @D>750’(229m))	±2’
C	±2’	±2’	±.6m		±30’
D	compilation of existing data-NOT A FIELD SURVEY				

Linear accuracies expressed as "±" apply to distances less than (<) those prescribed as a ratio.

(c) Vertical Accuracy

Each survey depicting vertical location shall conform to a Vertical Accuracy Class the tolerance of which is defined as follows:

Class	Level Loop Closure Greater Than One Mile		Level Loop Closure Less Than One Mile	
	Feet	Meters	Feet	Meters
V-1	±.02√M	±.005√K	±.006√N	±.002√N
V-2	±.035√M	±.008√K	±.010√N	±.003√N
V-3	±.05√M	±.012√K	±.020√N	±.006√N

M or K = The length of the level loop in miles/kilometers

N = The number of instrument setups in the level loop

(d) Topographic Survey Accuracy

Each Topographic Survey shall conform to a Topographic Accuracy Class the tolerance of which is defined as follows:

Class	Horizontal Position		Contour Interval Test
	Feet	Meters	
T-1	1/40 of map scale	1/1500 of map scale	90% within 1/2 contour interval
T-2	1/40 of map scale	1/1500 of map scale	80% within 1/2 contour interval

T-3 This class of topographic map applies to photogrammetric maps for which the surveyor provides the horizontal and vertical control. Refer to the "National Map Standards for Photogrammetric Mapping" for requirements.

T-D This class of map standard applies to a topographic map compiled from various

Regulations of Connecticut State Agencies

Class	Horizontal Position		Contour Interval Test
	Feet	Meters	

sources of information not necessarily verified by the surveyor.

In using Topographic Accuracy Class T-1 or T-2, the surveyor is expressing confidence that should a test profile be run in the field, a plotted comparison with a profile scaled from the map shall be in agreement within the above criteria and the remainder shall be within the contour interval.

(Adopted effective June 21, 1996)