

Table 2: Summary of Department of Transportation Survey

Architectural Research Consulting 20-07 (167)

No.	Element surveyed	Minimum reported tolerance	Maximum reported tolerance	Average reported tolerance	Final suggested tolerance
1	Roadway grade (cross slope)- Concrete	0	5%	0.57%	+0.5%
2	Roadway grade cross slope (running grade)-Concrete	0	5%	0.60%	+0.5%
3	Sidewalk running slope	0	2%	0.43%	+1%
4	Sidewalk cross slope	0	2%	0.47%	+0.5%
5	Flatness (smoothness) of sidewalks	0	2"/10'	0.28"/10'	±1/4"/10' (±6 mm/3m)
6	Curb ramp slope, main ramp	0	5%	0.49%	+0.5%
7	Curb ramp, flare slope	0	5%	0.57%	+0.5%
8	Curb ramp gutter counterslope	0	5%	0.58%	+0.5%
9	Widths of sidewalks and other paving	-2 in.	3 in.	0.66 in.	±3/4" (±19mm)
10	Elevation points of construction	0	1.2 in.	0.33 in.	±0.5" (±13mm)
11	Concrete joint size	0	.5 in.	0.15 in.	+1/8" (3 mm)
12	Concrete stairs (riser and tread)	0	1 in.	0.26 in.	±1/8" (±3 mm) riser, ±1/4" (±6 mm) tread
13	Placement of detectable warning surfaces	0	2 in.	0.78 in.	±3/4" (±19 mm)
14	Installation of metal handrails and guardrails	0	4 in.	0.72 in.	±1/2" (±13 mm)
15	Horizontal placement of poles, controls, signs, etc.	0	12 in.	2.62 in.	±2" (±50 mm)
16	Vertical placement of handrails, controls, signs, etc.	0	6 in.	1.16 in.	±1" (±25 mm) None for handrail height.
17	Street furniture–horiz. placement	1 in.	12 in.	3.27 in.	±2" (±50 mm)
18	Street furniture–vertical placement	1 in.	6 in.	1.56 in.	±1" (±25 mm)
19	Size of gaps at rail crossings	0.5 in.	3 in.	0.83 in.	±1/4" (±6 mm) light rail and passenger train tracks
20	Flushness of surfaces at rail crossings	0.5 in.	1 in.	0.31 in.	±1/4" (±6 mm)
21	Asphalt roadway grade	0	5%	0.83%	+1%
22	Asphalt roadway grade cross slope	0.1 in.	5%	0.66%	+1%
23	Asphalt sidewalk running slope	.05 in.	5%	1.42%	+1%
24	Asphalt sidewalk cross slope	.05 in.	2%	0.46%	+0.5%
25	Asphalt flatness (smoothness) of	.125"/10'	2"/10'	0.37"/10'	±1/4"/10' (±6 mm/3m)

	sidewalks				
26	Asphalt curb ramp slope, main ramp	0	5%	0.75%	+0.5%
27	Asphalt curb ramp, flare slope	0	55	0.88%	+0.5%
28	Asphalt curb ramp gutter counterslope	0	5%	0.96%	+0.5%
29	Asphalt widths of sidewalks and other paving	0	1 in.	0.61 in.	±3/4" (±19 mm)
30	Asphalt elevation points of construction	0	4 in.	0.72 in.	±1/2" (±13 mm)
31	Change of level	0	.5 in.	0.15 in.	+1/8" (+3 mm)
