

The following guidelines for installation of crosswalks at uncontrolled intersections were adopted by the City Council on December 18, 2000

Table 1
City of Palo Alto
Warrants for Marked Crosswalk at Uncontrolled Intersections

(A) Basic Warrants

(i) Pedestrian Volume Warrant

Pedestrian volume at proposed crosswalks should be more than 20 pedestrians per hour (pph) during the peak pedestrian hour or 15 pph for each of 4 hours.

(ii) Approach Speed Warrant

The 85th percentile speed at the proposed marked crosswalk locations should be less than 40 mph.

(iii) Visibility Warrant

The unrestricted view for motorists to the proposed marked crosswalk site should have a distance greater than 200 feet approaching from each direction. This will be a special concern at sites with grades, curves and other potential significant sight restrictive features.

(iv) Illumination Warrant

Proposed marked crosswalk site must have adequate street lighting near the crosswalk in existence or scheduled for installation prior to the installation of the marked crosswalk.

(B) Warrant Point System of Criteria (need to compile at least 16 points)

(i) Pedestrian Volume Warrant

Criterion	Point Assignment	
	Pedestrian Total	Points
The total number of pedestrians crossing the street under the study during the peak pedestrian hour. This includes pedestrian volumes at both crosswalks. Crosswalk will not be installed where the ped volume is less than 10.	0-20	0
	21-40	2
	41-60	4
	61-90	6
	91-100	8
	Over 100	10
	Maximum	10

(ii) General Conditions Warrant

	Points
(a) Will clarify and define pedestrian routes across complex intersections	2
(b) Will channelize pedestrians into a significantly shorter route	2
(c) Will position pedestrian to be seen better by motorists	2
(d) Will position and ensure pedestrian meets fewer vehicles	2

(iii) Gap Time Warrant

The number of unimpeded vehicle time gaps equal to or exceeding the required pedestrian crossings time in an average five-minute period during the peak vehicle hour	Ave. # gaps per 5 min. period	Points
	0 - 0.99	10
	1 - 1.99	8
	2 - 2.99	6
	3 - 3.99	4
	4 - 4.99	2
	5 or more	0
	Maximum	10

Computations

- (1) Pedestrian Crossing Time = street width from curb-to-curb divided by 4 feet per second
- (2) Average number of gaps per five-minute period = Total usable gap time in seconds divided by pedestrian crossing time multiply by 12.

Note: All the warrants need to be met for installation of marked crosswalks at uncontrolled intersections.