



Proposed Location:

Date:

All four of these warrants must be met:

- 1 Crosswalk crosses state highway
- 2 At least three lanes
- 3 More than 300 feet from signalized or stop-controlled crossing
- 4 Resolution

This matrix is only an evaluation tool. The existence of a location on this list or its ranking in comparison to other locations is not a guarantee of the construction of a beacon at that location.

Definition of Catchment Area

The catchment area in either direction of a proposed location is half the distance to the nearest stop-controlled or signalized crosswalk, or 1000 feet, whichever is less.

Point Assignments					
Criterion	Points	Max	Awarded		Notes
			Points		
1 Distance 'd' from the requested beacon to the nearest signalized or stop-controlled crossing.*	0	10			if d ≤ 300 ft
	$\frac{d - 300}{100}$				if 300 ft < d < 1300 ft
	10				if d ≥ 1300 ft
2 85th percentile speed, if known, or posted speed plus 7 mph of roadway being crossed.*	0	10			if v ≤ 30 mph
	$\frac{v - 30}{2}$				if 30 < v < 50 mph
	10				if v ≥ 50 mph
3 Total of pedestrian crossing for 1 hour (any four consecutive 15-minute periods) of an average day.**	0	10			0 to 9 pedestrians per hour
	5				10 to 19 pedestrians per hour
	10				≥ 20 pedestrians per hour
4 Median width. TWLTL counts as a median if proposed location is more than 150 ft from an intersection or a major driveway	-10	0			if w ≥ 9 ft
	-5				if 6ft ≤ W < 9 ft
	0				if w < 6 ft or no median
5 Pedestrian crash history	10 per crash	20			20 points maximum. Qualifying crashes occurred within catchment area in the most recent 5 complete years and may be any severity, including PDO, with pedestrian or pedal cycle as a harmful event.
6 Special needs pedestrian generators within catchment area	0	10			None
	5				Senior center, senior assisted living facility, nursing home, other elderly-related generators within catchment area
	10				Land uses for the blind within catchment area

* Round awarded points to nearest whole number.

** Count number of individual people (walking, biking, wheelchairs or other means on crosswalk) per hour, regardless of groups. Count as two people for assisted walking (pushed wheelchair, baby on a cart, or other means).

Point Assignments, continued					
Criterion	Points	Max	Awarded		Notes
			Points		
7	Roadway traffic volume (Annual Average Daily Traffic).	0	6		Less than 5,000 AADT
		3			5,000 to 10,000 AADT
		6			Greater than 10,000 AADT
8	Pedestrian generators within the catchment area	2 per generator	20		20 points maximum. Qualifying generators include: bus stops, parks or other recreational areas, higher education, civic offices, grocery stores, retail complexes, restaurants, office complexes, parking used by a qualifying generator but which is located on the opposite side of the street, residential with at least 10 dwelling units per acre
9	Location is recommended as part of a small area transportation plan	-10	10		Small area transportation plan exists and recommends protected crossing locations but the proposed location is not included on that list
		0			No small area transportation plan
		10			Yes
10	Proposed location is a planned crossing location in a school route plan (as defined by MUTCD Chapter 7A) for an elementary or secondary school	-10	10		School route plan exists and defines crossing locations but the proposed location is not included on that list
		0			No school route plan or no school within walking distance
		10			Yes
11	Proposed location is within or on the edge of an environmental justice (EJ) area, which is defined as a census tract in which, according to the latest 5-year American Community Survey, any of the following conditions are true: (a) More than 25% of households are in poverty; (b) ratio of tract to county median family income is less than 80%; or (c) More than 50% of population is are members of minority races or are Hispanic	0	10		Not within or on edge of an EJ area
		10			Within or on edge of an EJ area
12	Engineering judgment indicates that this location should be given extra consideration. Document reasoning.	0 to 10	10		Negative points not allowed in this category.
13	Grand Total (Min. 0; Max. 126)				

For consideration by the Oklahoma Department of Transportation, please submit this completed form to your Field Division Traffic Engineer. Click the link or visit the page below for contact information.

https://www.ok.gov/odot/About_ODOT/Contact_ODOT_Divisions/Field_Divisions.html

This form can be downloaded from http://www.okladot.state.ok.us/traffic/collision_analysis/brochures.htm