



Uncontrolled Pedestrian Crossing Data Collection Worksheet

Location:	ArmStrong Blvd/161st Ave	Date:	July 1st 2014
City, State:	Ramsey, Mn	Scenario:	
Reviewer(s):	Grant Riemer	Agency:	City of Ramsey
Project #:		ID #:	

The first step in understanding the pedestrian needs at a potential crossing location is completing a review of the location and adjacent facilities.

Geometrics	Crossing Length: Measure the crossing distance from curb to curb.		Crossing 1	50	ft.			
	Fill in Crossing 1 distance if there is no median. If there is a median at the crossing location, fill in Crossing 1 and 2 distances.		Crossing 2		ft.			
	Median: width of median at crossing location				ft.			
	Crossing Width: effective crosswalk width			10	ft.			
	Raised Median Available?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No				
	ADA Compliant Median Available (minimum 4' x 4' landing)?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No				
	Curb Ramps Available?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
	ADA Compliant Curb Ramp Available (width, grades, truncated domes)?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
	Speed: Posted or 85 th percentile speed			50	mph			
	Roadway Curvature and Sight Distances: Average walking speed			3.5	ft/s			
	Is the crossing location within a horizontal or vertical curve?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No				
	Equations to calculate the following are located on the next page							
	Direction 1: Stopping Sight Distance (SSD)	424	ft.	provided?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Direction 2: Stopping Sight Distance (SSD)	424	ft.	provided?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Direction 1: Pedestrian Sight Distance (PedSD)	1270	ft.	provided?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Direction 2: Pedestrian Sight Distance (PedSD)	1270	ft.	provided?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Traffic and Pedestrian Data	Measure traffic and pedestrian volume in 15-minute increments on the roadway to be crossed.							
	Attach Counts	vehicles:		Daily				
	AM Peak	Hourly		Pk 15-min				
	PM Peak	Hourly	224	Pk 15-min	65			
		pedestrians:		Daily				
		Hourly		Pk 15-min				
		Hourly	12	Pk 15-min	8			
Additional Site Characteristics	Lighting: Is street lighting present and does it light the crosswalk location?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
	Crosswalk Pavement Markings: Is the pedestrian crossing currently marked?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
	What is the condition of the markings?		<input type="checkbox"/> Excellent	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor		
	Are the markings easily defined?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
	Do they need replacement?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No				
	What is the crosswalk marking pattern?		Continental					
	Signing: Currently signed at crosswalk?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
	Currently signed in advance of crosswalk?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
	Distances?		direction 1	975	ft.	direction 2	975	ft.
	Enhancements: What enhancements are currently at the crossing location?		None					
Adjacent Facilities: Distance to nearest marked crosswalk?			N/A	ft.				
What pedestrian control devices are present at the nearest adjacent marked crosswalk?		None						
Distance to nearest all-way stop, roundabout or signalized intersection			N/A	ft.				
Could another location serve the same pedestrian crossing movement?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No					
Could another location serve the the movement more effectively?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No					

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Mark the following: site distances and potential conflicts, pavement markings (crosswalk, edge lines, center lines, lane lines, stop lines, and any other markings), signing, location of lighting units, curb ramps, truncated domes, presence of any other crosswalks or crossing locations parallel to and nearby the location being studied, adjacent intersection traffic control, parking, intersection width, lane lengths, shoulder widths, sign placement, and nearby origins and destinations .

draw or insert map of location being studied

Notes:

Sight Distance Calculations:

Stopping sight distance (SSD), $ft = 1.47St + 1.075S^2/a$

Pedestrian sight distance (PedSD), $ft = 1.47S(L / S_p + t_s)$

where: S = design speed, mph
L = length of crossing, ft

where:

t = brake reaction time, s

a = deceleration rate, ft/s^2

S_p = average pedestrian walking speed, ft/s

t_s = pedestrian start-up and end clearance time, s

defaults:

2.5

11.2

3.5

3.0