

**Errata Sheet for
NCHRP Report 616
Multimodal Level of Service Analysis for Urban Streets
2008**

Pg	Description	Change
88	Replace equation 36, Pedestrian Segment LOS	<p>Replace equation 36 with the following:</p> $PLOS = -1.2276 \ln (f_{LV} \times W_t + 0.5W_l + f_p \times \%OSP + f_b \times W_b + f_{sw} \times W_s) + 0.0091 (V/(4*PHF*L)) + 0.0004 SPD^2 + 6.0468$ <p>Where</p> <p>Ped SegLOS = Pedestrian level of service score for a segment</p> <p>Ln = Natural log</p> <p>f_{LV} = Low volume factor (=1.00 unless average annual daily traffic (AADT) is less than or equal to 4,000, in which case f_{LV} = (2 – 0.00025 * AADT))</p> <p>W_t = total width of outside lane (and shoulder) pavement</p> <p>W_l = Width of shoulder or bicycle lane, or, if there is un-striped parking and %OSP≥25 then W_l=10 ft. to account for lateral displacement of traffic</p> <p>f_p = On-street parking effect coefficient (= 0.50)</p> <p>%OSP = Percent of segment with on-street parking</p> <p>f_b = Buffer area coefficient = 5.37 for any continuous barrier at least 3 feet high separating walkway from motor vehicle traffic. A discontinuous barrier (e.g. trees, bollards, etc.) can be considered a continuous barrier if they are at least 3 feet high and are spaced 20 feet on center or less.</p> <p>W_b = Buffer width (distance between edge of pavement and sidewalk, in feet)</p> <p>f_{sw} = Sidewalk presence coefficient (f_{sw} = 6 – 0.3W_s if W_s ≤ 10, otherwise f_{sw} = 3.00)</p> <p>W_s = Width of sidewalk. For widths greater than 10 feet, use 10 feet.</p> <p>V = Directional volume of motorized vehicles in the direction closest to the pedestrian. (vph)</p> <p>PHF = Peak hour factor</p> <p>L = Total number of through lanes for direction of traffic closest to pedestrians.</p> <p>SPD = Average running speed of motorized vehicle traffic (mi/h)</p>
88	Equation 37, Pedestrian Intersection LOS.	<p>Change two parameters in equation as highlighted below:</p> <p>Pedestrian LOS for Signalized Intersections = 0.00569(RTOR+PermLefts) + 0.00013(PerpTrafVol*PerpTrafSpeed) + 0.681(LanesCrossed^{0.514}) + 0.0401 ln(PedDelay) –RTCI(0.0027PerpTrafVol – 0.1946) + 0.5997</p>