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ABSTRACT

More than a half of all crashes and a significant portion of fatal crashes (about 23 percent) takes place on intersections. Some of those involve bicyclists and pedestrians. This is a significant reason to design and build intersection projects that improve safety. Intersection geometry is one of some factors considered in order to improve designs to make roadways safer. It also contributes to the operation of signalized intersections, which has to be the safest possible. The main objective of this research is to audit an existing signalized intersection and its boundaries.

This objective is achieved through the supervision of the intersection's operation, considering to reduce its crash potential and to increase the level of safety for its users. The literature review of safety on intersections is an intelligent beginning for this research. Several visits to the intersection of matter are very necessary prior to the identification of common and severe problems or deficiencies that affects its safety. Fatalities or injuries reported data on this intersection would be very helpful. With the observations obtained during the examination, the intersection can be evaluated and some implementable alternatives can be generated in order to solve the safety problems. The most critical problem founded, if any, would be pictured to help justify the alternatives proposed.