



Rectangular Rapid Flashing Beacons (RRFBs)

Safety Benefits

RRFBs can reduce crashes up to

47%

for pedestrian crashes

RRFBs can increase motorist yielding rates up to

98%



For more information on this and other FHWA proven safety countermeasures, please visit:

www.highways.dot.gov/safety/proven-safety-countermeasures

All content is sourced from the U.S. Department of Transportation – Federal Highway Administration

A marked crosswalk with warning signs can improve pedestrian safety, but it may not always be enough to alert drivers to pedestrians crossing the roadway. This reconstruction project will install pedestrian-actuated Rectangular Rapid Flashing Beacons (RRFBs) to enhance visibility and increase driver awareness. RRFBs emit two flashing yellow lights when activated, signaling drivers to yield. These signs will be installed at Elmdale Court and Glendale Avenue and replaced at Jarvis Street.

Applications

The RRFB is applicable to many types of pedestrian crossings but is particularly effective at multilane crossings with speed limits lower than 40 miles per hour. Research suggests RRFBs can result in motorist-yielding rates as high as 98 percent at marked crosswalks. This varies depending on the location, posted speed limit, pedestrian crossing distance, one- versus two-way road and the number of travel lanes. RRFBs can also accompany school- or trail-crossing warning signs.

RRFBs are placed on both sides of a crosswalk below the pedestrian crossing sign and above the diagonal downward arrow plaque pointing at the crossing. The flashing pattern can be activated by push buttons or passive pedestrian detection (e.g., video or infrared). Units are unlit when inactive.

