

## Los Alamos County Golf Course Crossing Evaluation

#### **Diamond Drive**



Presented to the Los Alamos County Transportation Board

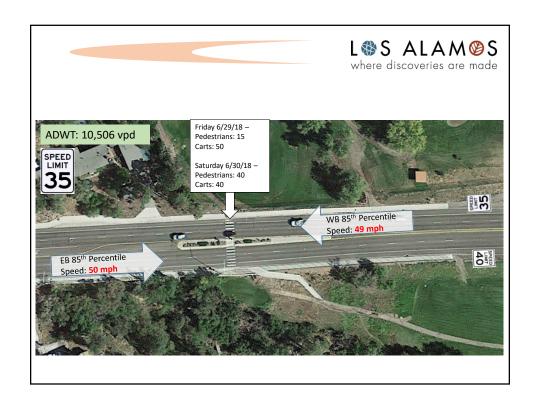
September 6, 2018



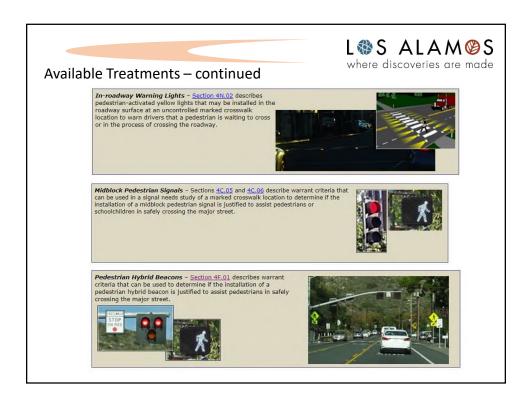
- > Data collection parameters: Diamond Drive @ Golf Course
  - Data was collected for 12 & 24 hour continuous periods
    - 12 Hr: Golf Cart & Pedestrian crossing counts 6/29 & 6/30, 2018
    - o 24 Hr: Traffic Volume and Speed Counts 7/11/2018
  - Data collection consisted of:
    - Vehicles traveling EB & WB on Diamond Drive, including volume, speed and headway
    - o Golf carts crossing Diamond Drive at the marked crosswalk
    - o Pedestrians crossing Diamond Drive at the marked crosswalk
  - Data was collected using video recording and inductive vehicle counters

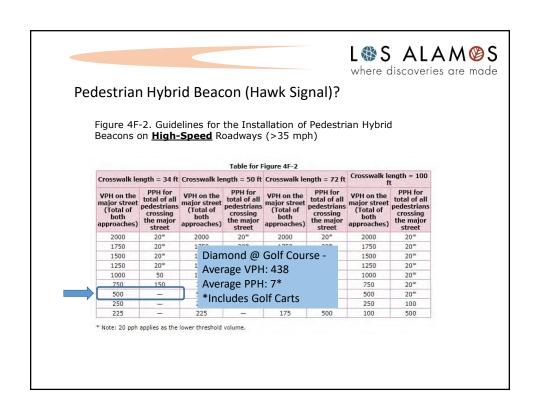
















where discoveries are made

# RRFB:

# Rectangular Rapid Flashing Beacon:

- RRFBs are user-actuated amber LEDs that supplement warning signs at un-signalized intersections or midblock crosswalks. They can be activated by pedestrians manually by a push button similar to the ones used at a signalized intersection.
- RRFBs use an irregular flash pattern that is similar to emergency flashers on police vehicles. RRFBs may be installed on either two-lane or multi-lane roadways.



### RRFB: Details

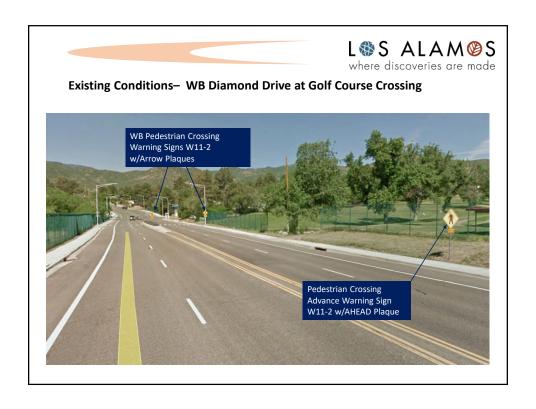
#### **Benefits**

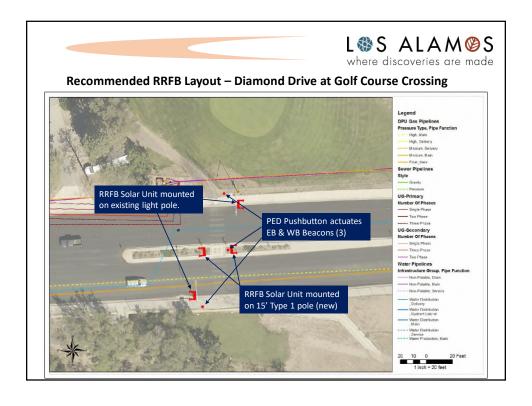
- RRFBs have proven to show an increase in driver yielding behavior at unsignalized crosswalks
  when supplementing standard pedestrian crossing warning signs and markings. An official
  Federal Highway Administration (FHWA) sponsored experimental implementation and evaluation
  showed that RRFBs are more effective at increasing driver yielding rates to pedestrians than
  traditional overhead or pole mounted beacons.
- RRFBs are a lower cost alternative to traffic signals, pedestrian crossing signals and hybrid signals
  that are shown to increase driver yielding behavior at crosswalks significantly when
  supplementing standard pedestrian crossing warning signs and markings.

#### **Installation, Operation & Cost**

- Installation: System is solar powered, eliminating the need for trenching or electrical connections. Installation would require the placement of concrete or helix pole foundations.
- Operation: Individual beacons are wirelessly connected via radio signals and would be fully
  actuated from any of the pedestrian pushbuttons.
- Cost: Estimated cost to install the system: \$20,000. Estimated annual operating cost \$300.









## Next Steps -

- Present to the Golf Course Subcommittee
- Present Parks and Recreation Board
- Return to T-Board for Recommendation to County Council
- Present County Council