



Houston Radar

SpeedLane Pro with Tetryon Server

Dynamic Curve Warning
Measurement Detectors

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Project Summary

- Measure Efficacy of Radar Activated Dynamic Curve Warning System



- Measure Reduction in Speeds from ramp entry to ramp curve (spot measurement in 2 locations)
- Collect Speed Reduction and Accident Data Before and After Installation

Spot Speed Measurement Requirements

- Quick and low cost to install
 - On existing street light poles
 - Solar operation (low power operation)
 - No digging/trenching for power or comms
 - Non-intrusive (no lane closures)
- Integrated modem for remote data collection
- (Ideally) Out of the box cloud integration for data retrieval/analysis

Selected Product: SpeedLane Pro with Tetryon Server

- Houston Radar SpeedLane Pro non-intrusive radar
 - Mounted on the side of the road on existing light poles
 - Measures live spot speeds, counts and vehicle class in each lane
 - Very low power, solar, battery, cell modem, highly integrated
 - Install 2 units in few hours. No digging or trenching.
 - Integrates out of the box with cloud server to upload data



- Houston Radar Tetryon cloud based server
 - Collects live data from multiple SpeedLane units via integrated modem
 - Generate historical comparative summary reports
 - Out of the box integration. Data on website through browser.

2 Locations Installed

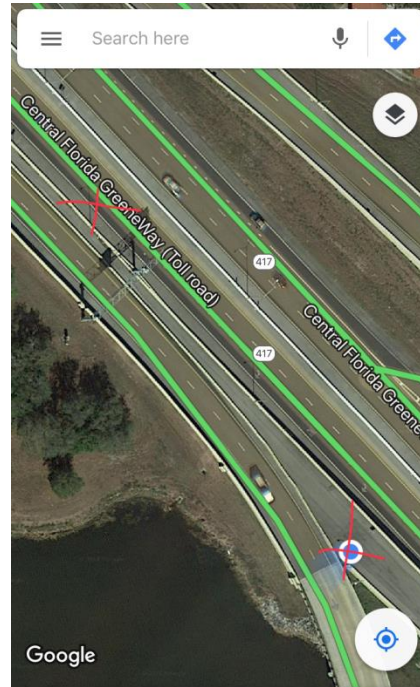
July 27th on HW417 exit to 408

The image displays the Houston Radar web interface. The top left features the Houston Radar logo. A navigation sidebar on the left includes a menu icon, a 'Summary' button, a 'LOCATIONS' section with a location pin icon, and two location entries: 'HW417-Exit Enter' and 'HW417-ExitRamp'. The main content area is titled 'Summary' and contains three tabs: 'Summary', 'Summary Map', and 'Historical Reports'. Below the tabs are three buttons: 'Select location', 'All locations', and 'Save Zoom'. The central map shows a street view of an area near Valencia College. Two green location pins are placed on the highway exit for HW417 to HW408, and they are circled in red. The map also shows various streets like Valencia College Ln, Danville Dr, and William C. Coleman Dr, along with landmarks like Valencia College School of Public Safety and Villa Valencia. The Google logo is visible in the bottom left corner of the map area.



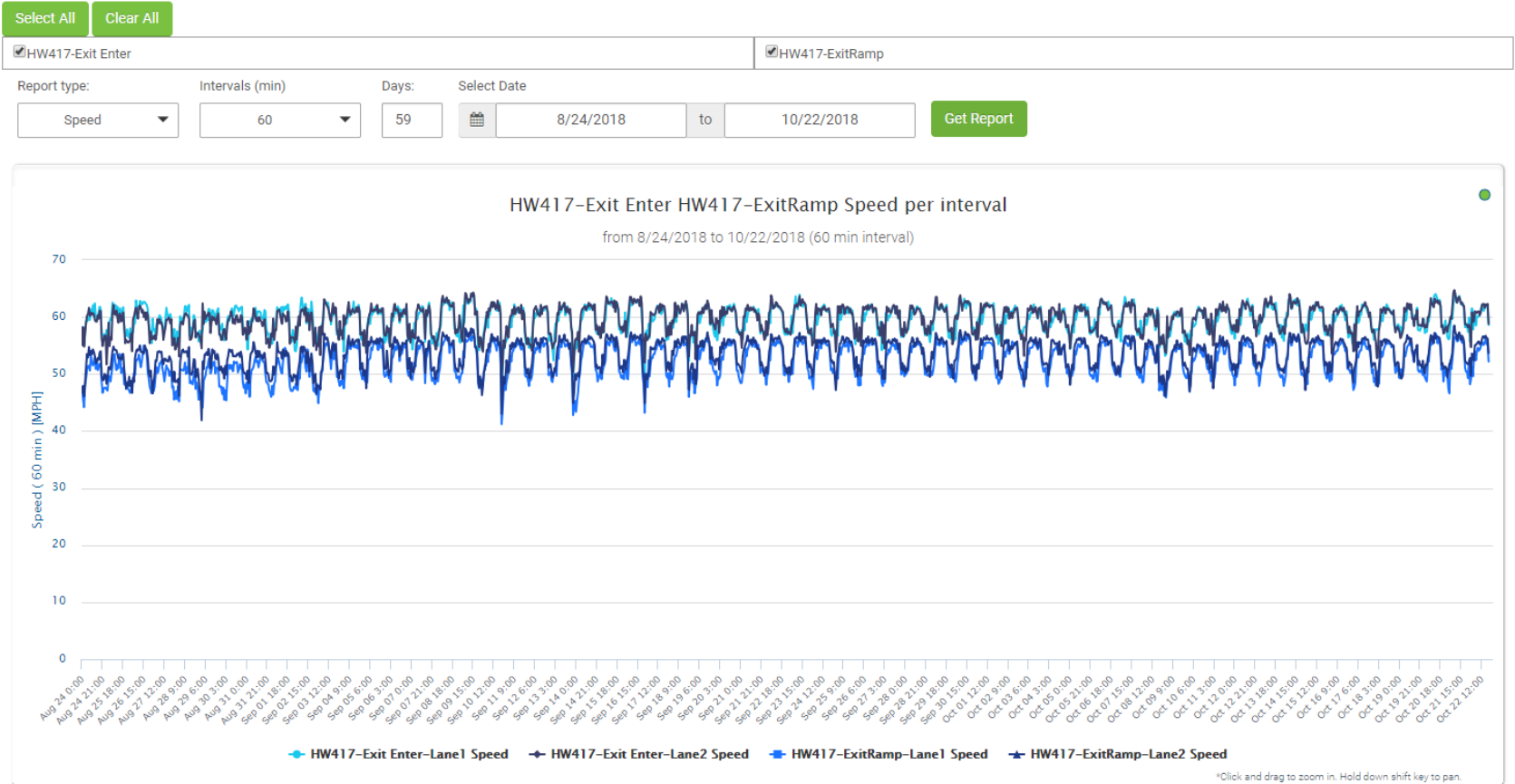
Site Photos

(Courtesy Erly Alonso)



Radars and Solar Panel mounted on existing light poles. No extra boxes were required for battery, charger or modem. Everything is built-in the radar.

Historical Multi-site comparisons



- Comparing Exit Entry vs. Exit Curve Speeds
- Next step is to install the dynamic curve warning lights and measure speed reduction and accident rates