

BPC
12-17-2025

Item No.3
Tantau Ave/
Forge Dr Traffic
Signal

Presentations

City of Cupertino

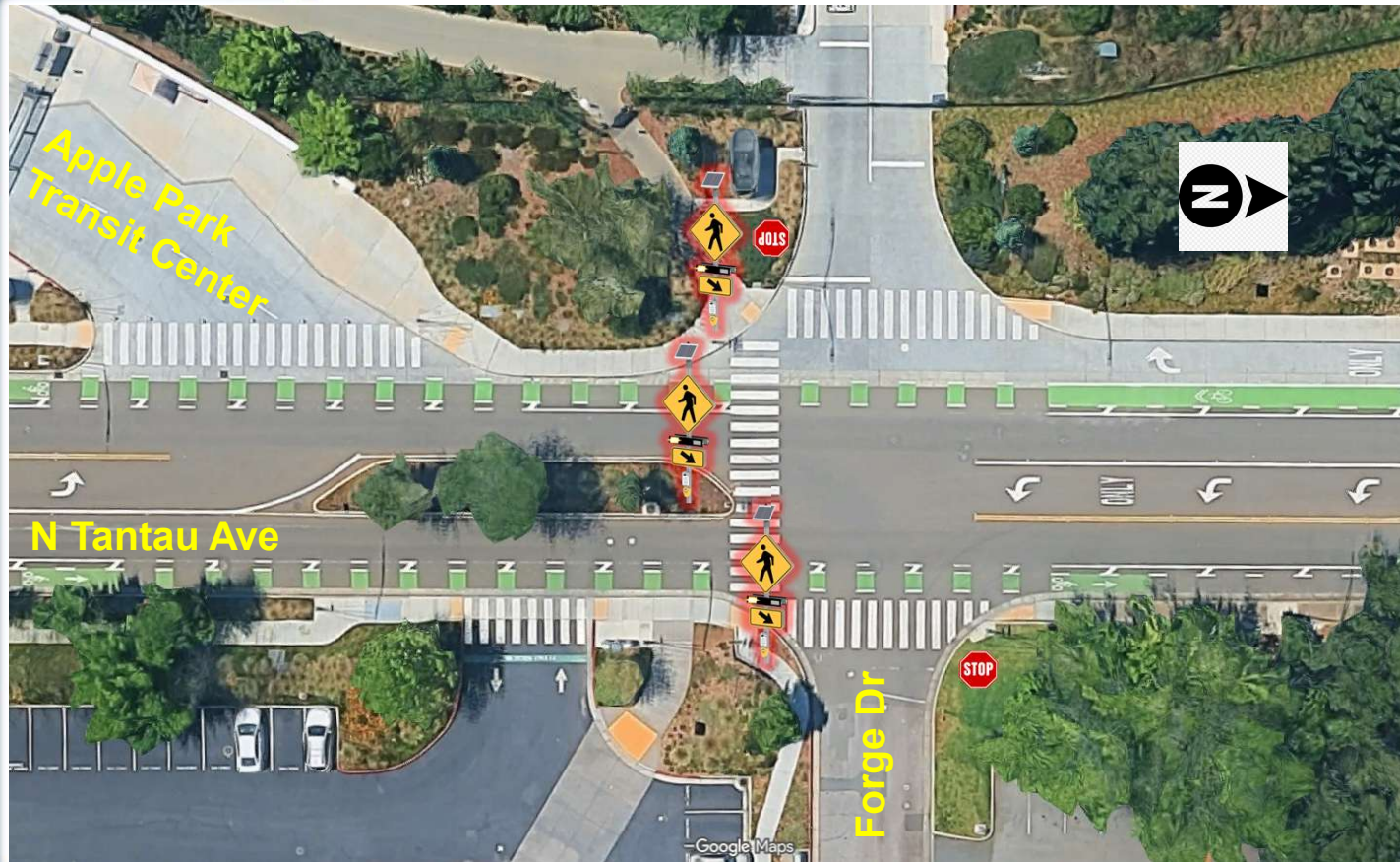
Tantau Avenue and Forge Drive



**CITY OF
CUPERTINO**

PRASHANTH DULLU
ASSISTANT TRANSPORTATION ENGINEER
December 17, 2025

Tantau Ave and Forge Dr

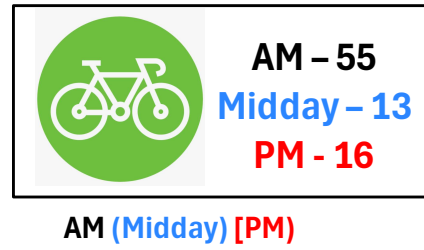
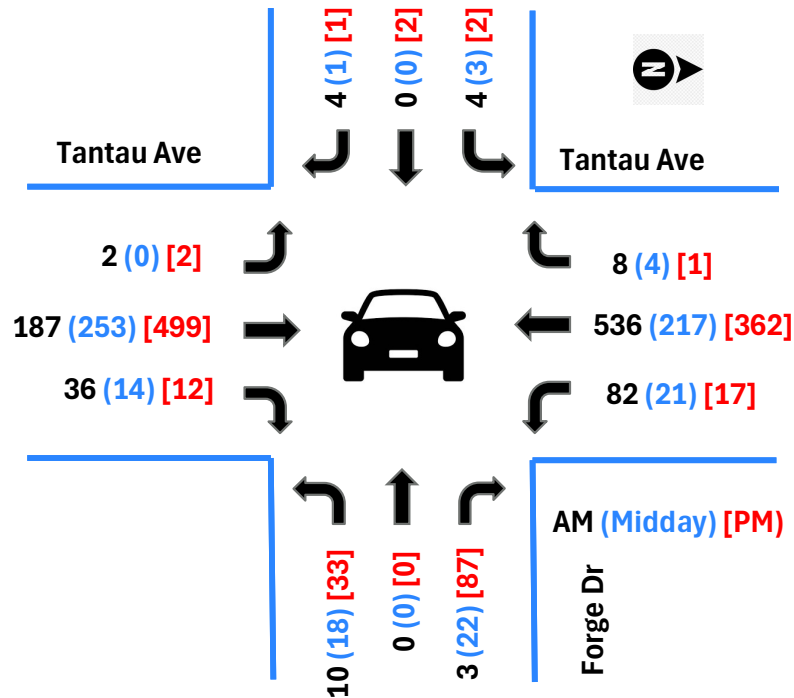


Existing Conditions

- Two-Way Stop Control on Forge Dr and Apple Park Gated Entrance
- Rapid Rectangular Flashing Beacon crossing Tantau Ave
- High visibility Crosswalk on three legs
- Serves traffic associated with Apple Park Campus, including employees and visitors.
- Next to the Apple Park Transit Center.

Existing Traffic Counts at Tantau Ave and Forge Dr.

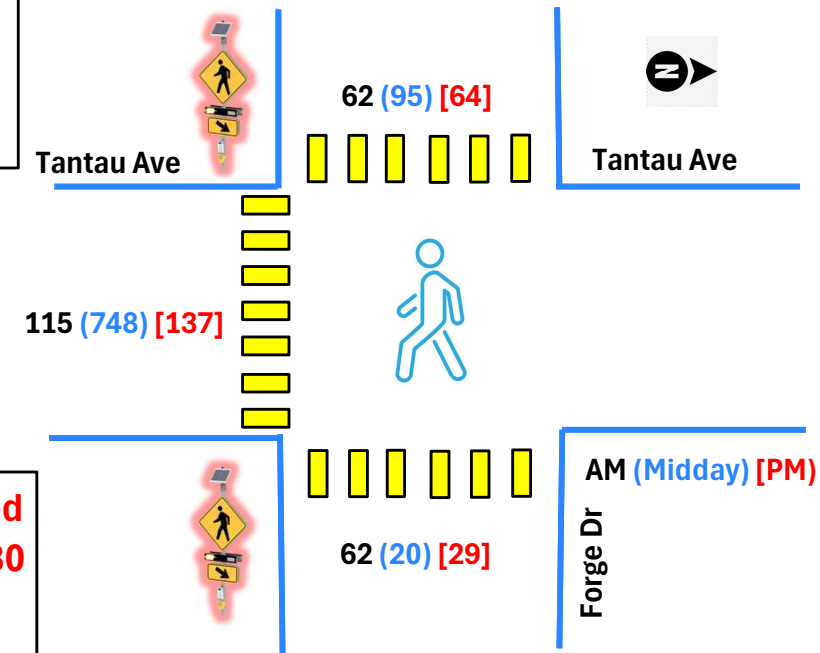
Peak Hour Vehicular Counts (09/30/25)



85th Percentile Speed on Tantau Ave - NB 30 MPH & SB 28 MPH



Peak Hour Pedestrian Counts (09/30/25)



Average Daily Traffic on Tantau Ave, between E. Homestead Rd and Forge Dr (09/30/25)

Direction	Motorcycles	Passenger Cars & Multi Axles	Buses	Total Volume
Northbound	170	4,412	58	4,640
Southbound	140	4,624	216	4,980
Total	310	9,036	274	9,620

Existing Conditions

- High pedestrian volumes are causing delays for motorists on Tantau Ave.
- Pedestrians are continuing to cross after the RRFB stops flashing

- Apple has offered to provide funding to install a traffic signal at this location.



MUTCD Traffic Signal Warrants

- Warrant 8 – Roadway Network
- Warrant 9 – Intersection Near a Grade Crossing

MUTCD Peak Hour & Pedestrian Volume Warrants

PEAK HOUR SIGNAL WARRANT (Warrant 2)

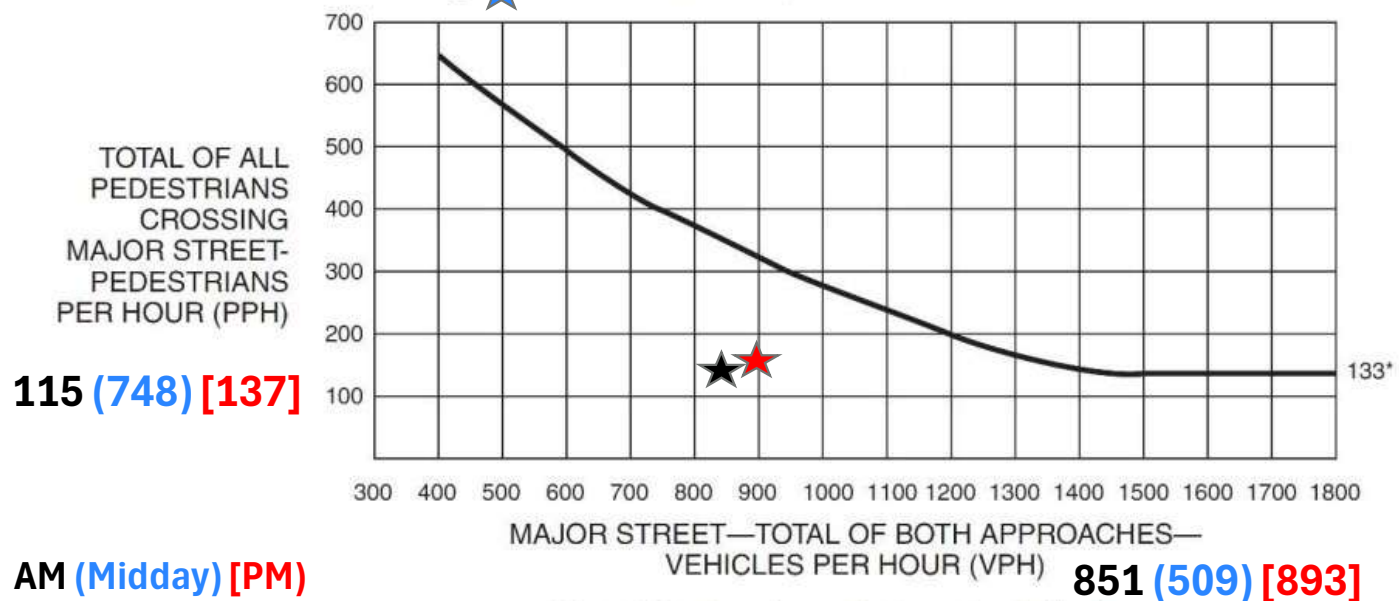
- This Warrant evaluates the need for a traffic signal based on traffic conditions occurring during the busiest hour of the day.

PEDESTRIAN VOLUME WARRANT (Warrant 4)

- AM and PM Peak Hours warrant was not satisfied. Only the **Midday Warrant was satisfied.**

MUTCD Pedestrian Peak Hour Warrant Analysis

Figure 4C-7. Warrant 4, Pedestrian Peak Hour



*Note: 133 pph applies as the lower threshold volume.

Installing a traffic signal at this location would provide full control over both vehicle and pedestrian movements, enhancing safety and operational efficiency at the intersection.



Recommendation

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- Staff recommends that the Bicycle Pedestrian Commission recommend that City Council approve the installation of a traffic signal at Tantau Ave / Forge Dr in order to:
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QUESTIONS

