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Review Data Collected for the Temporary  
Eastbound Tasman Drive Lane Closure  
During COVID-19 Pandemic and Consider  
Whether to Extend the Lane Closure as  
Employees Begin to Return to Workplace

City Council  
August 31, 2021



# Agenda

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1. Project Background
2. Traffic Monitoring Methodology
3. Data Collection Results
4. Recommendation to City Council
5. Alternatives



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# Project Background

# Project Limits

Tasman Drive between Fair Oaks Ave. to Vienna Dr.





A photograph of a road construction site. In the foreground, a wide concrete sidewalk runs alongside a road. To the right of the sidewalk, there are trees and bushes. A large orange diamond-shaped sign with the text 'RIGHT LANE CLOSED AHEAD' is visible. Further down the road, there are more signs and construction equipment. The sky is clear and blue.

## History

- On June 30, 2020, City Council approved a temporary eastbound Tasman Drive lane closure during the COVID-19 (RTC20-0633)
- Staff to collect data to monitor traffic conditions to ensure the temporary lane closure does not negatively impact traffic.



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# Traffic Monitoring Methodology

# Monitoring Activities

- Traffic Counts
  - ◆ Collected 24-hour counts three times.
    - Vehicular, pedestrians and bicyclists
- Traffic Management System monitoring
  - ◆ Video Camera Detection System
    - Monitor northbound right turn lane if drivers experienced delays due to extended queues.
  - ◆ Velocity Bluetooth Travel Time System
    - Monitor travel speeds along Tasman
- Field Observations
  - ◆ PTZ Traffic Monitoring Cameras
  - ◆ Periodic In-person Observations





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# Data Collection Results



# Vehicular, Pedestrian and Bicyclist Volume

- Volume and Speed along EB Tasman Drive between Fair Oaks Avenue to Vienna Drive

Vehicular Traffic	Average Daily Traffic
Traffic Signal Retiming Project PASS-2015	7,853
Temporary Lane Closure (COVID-19)	3,620

Pedestrians & Bicyclists	Average Daily Traffic
Pedestrian	22
Bicyclists	15

Vehicular Speed	Average Speed
Traffic Signal Retiming Project PASS-2015	33 mph
Temporary Lane Closure (COVID-19)	32 mph

# Observations During Monitoring

- Vehicular Volume
  - ♦ Decreased by 54% compared to baseline in 2015
  - ♦ Most recent PM peak hour volume showed 322 vehicles which is 42% of the theoretical 900 vehicles per hour per lane maximum at congested flow
- Travel speed was not impacted by closure
  - ♦ No queueing problems

# Opening Travel Lane

- County of Santa Clara and the State of California have removed the shelter in place order and lifted most pandemic related restrictions.
- Commercial businesses, restaurants, retail, entertainment areas, office buildings and large gathering spaces are reopening without capacity limitations.
- As traffic volume increases Tasman through capacity is decreased.
- Emergency vehicle response times could also be impacted

# Recommendation to City Council

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## Staff Recommendation

- Alternative 1: Direct staff to remove the temporary eastbound lane closure on Tasman Drive between Fair Oak Avenue and Vienna Drive and restore the travel lane for normal usage.



# Alternatives

# Alternative If City Council Wishes to Extend Temporary Lane Closure

1. Direct staff to remove the temporary eastbound lane closure on Tasman Drive between Fair Oak Avenue and Vienna Drive and restore the travel lane for normal usage.
2. Direct staff to continue to maintain the temporary eastbound lane closure on Tasman Drive between Fair Oaks Avenue and Vienna Drive for a City Council defined period, establish a transportation trigger for the restoration of the eastbound for vehicular traffic and provide a Budget Modification No. 4 in the amount of \$32,270.00 to fund the maintenance of the temporary lane closure for another ten months.

## Trigger to Reopen Eastbound Travel Lane

If City Council does choose to maintain the existing eastbound Tasman Drive lane closure, staff would recommend that a defined threshold of reopening the travel lane to vehicular traffic once the peak hour traffic volumes reach 720 vehicles which is 80% of the 900 vehicles per hour per lane throughput during congested flow, in addition to defining a time duration for funding purposes.



Questions?