



Prepared by

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Draft

## Hercules Safeway Project Transportation Impact Assessment



July 17, 2017 City of Hercules Planning Commission Meeting  
Presenter: Francisco J. Martin, P.E., Associate, Fehr & Peers

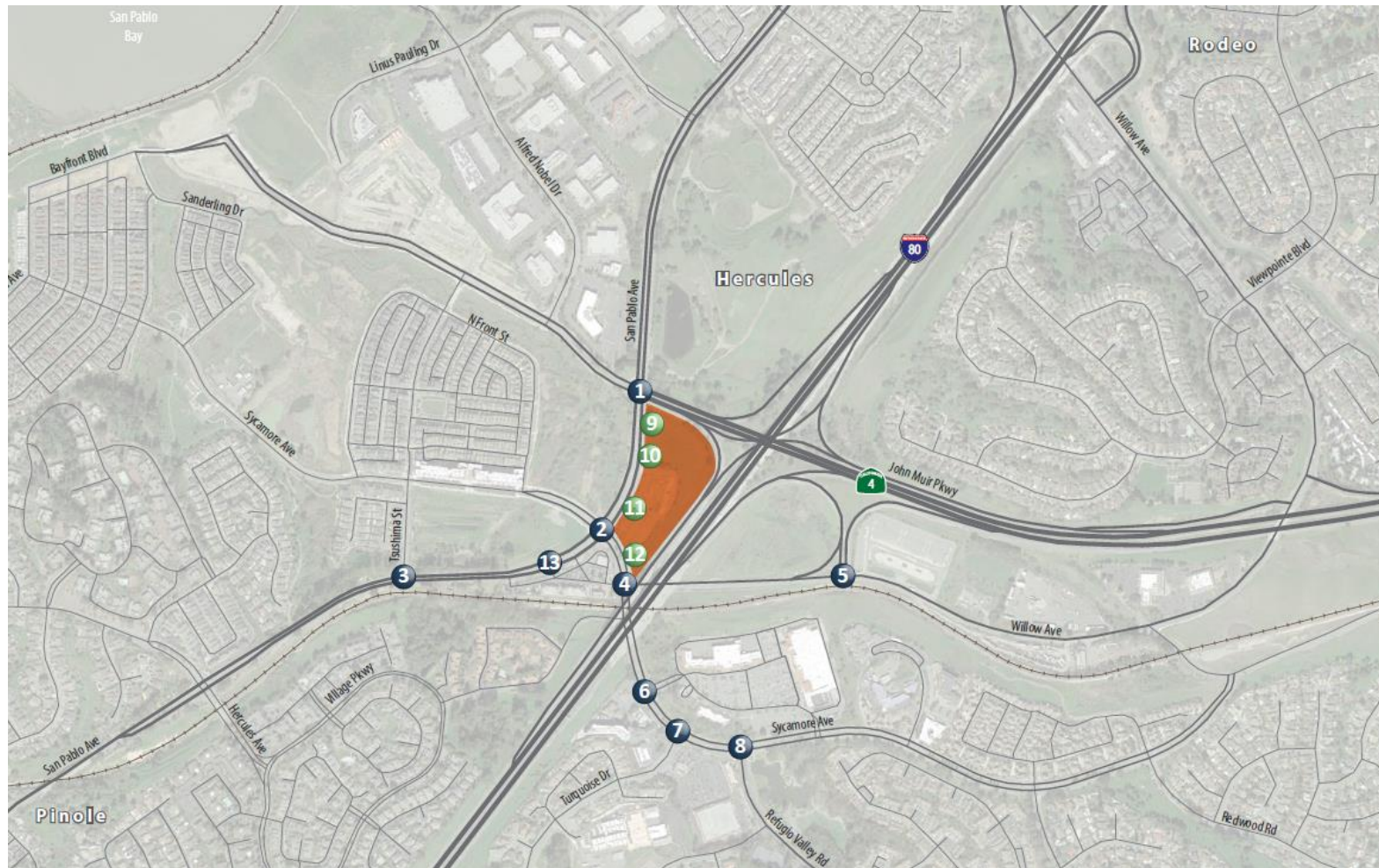
# Presentation Overview

- Project Team Overview
- Transportation Analysis Outline
- Analysis Assumptions
- Analysis Results
- Site Plan Recommendations

# Project Team Overview

- Fehr & Peers Developed the Transportation Impact Assessment (TIA)
  - Fehr & Peers is a Transportation Planning and Engineering Consulting Company Established in Contra Costa County in 1985
  - 30+ Years of Experience Developing TIAs
- City of Hercules Planning and Public Works Departments Involved in Reviewing Analysis
  - City Hired DKS and MIG as Consultants to Peer-Review TIA
- Worked Closely with Johnson Lyman Architects and McNellis Partners to Refine Project Site Plan

# Transportation Analysis - Intersections



## LEGEND



Project Site



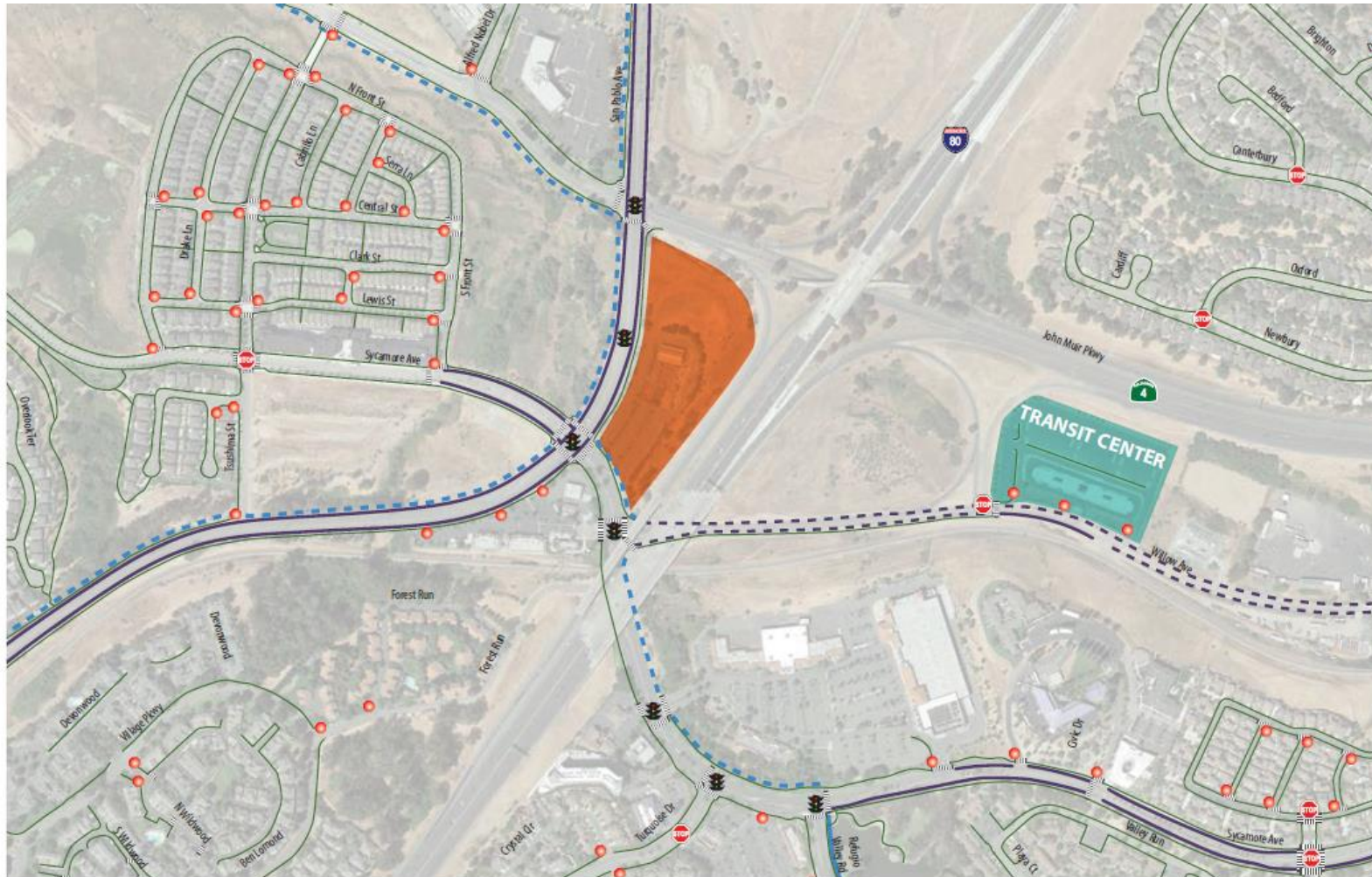
Study Intersection



Project Driveway



# Transportation Analysis – Pedestrian/Bicycle Facilities

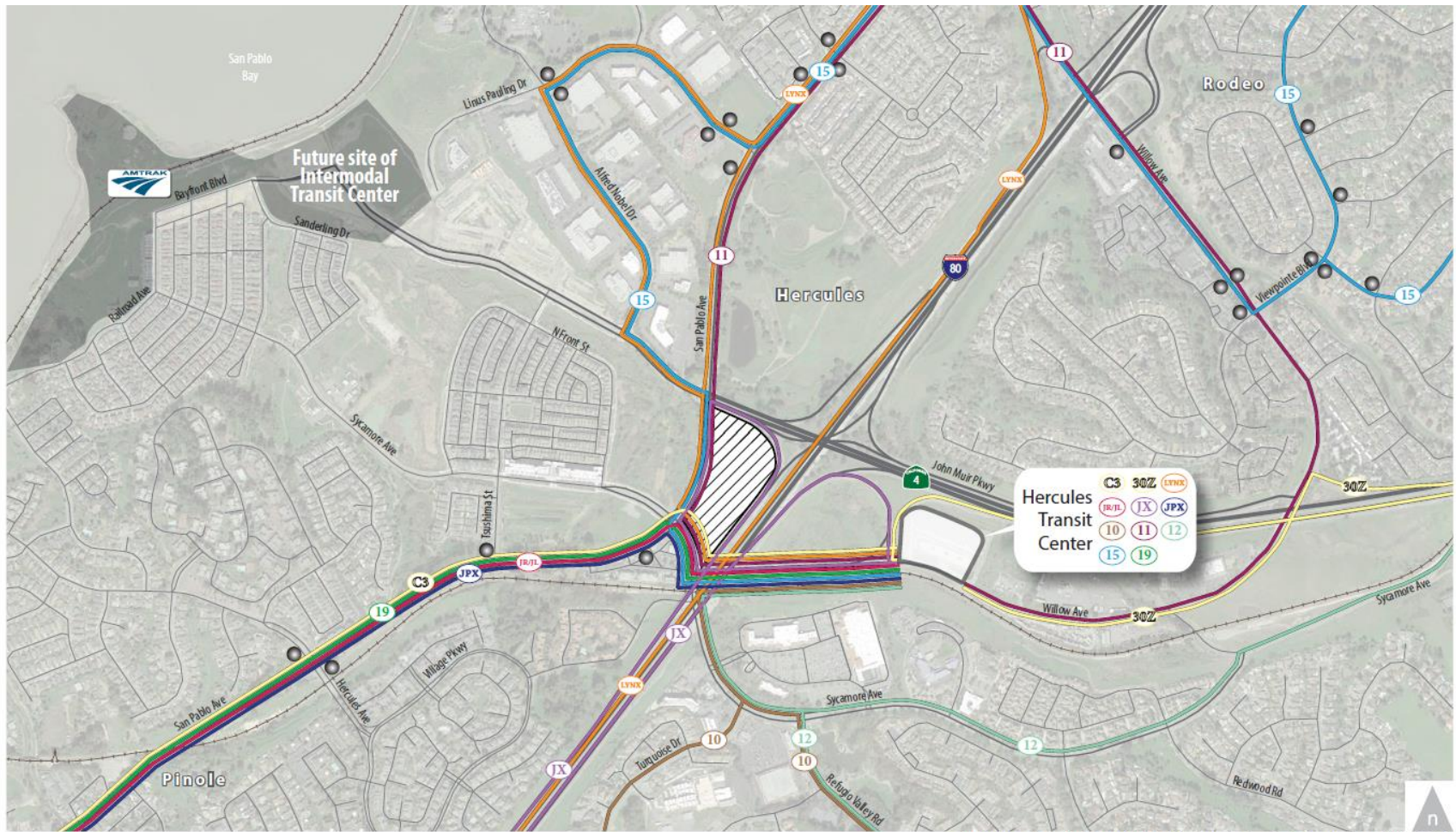


## LEGEND

	Sidewalk		Class I Bike Path		Planned Class I Bike Path		Class II Bike Lane		Planned Class II Bike Lane		Crosswalk		Traffic Signal
	Approach is All-Way Stop-Controlled		Approach is Stop-Controlled		Project Site								



# Transportation Analysis – Transit Facilities



Note: Transit service is provided by Western Contra Costa County Transit (WestCAT).

## LEGEND

- C3 Regional Route    — 30Z Regional Route    — LYNX Transbay Route    — JX Express Route    — JBL Express Route    — JPX Route    — 10 Route    — 11 Route
- 12 Route    — 15 Route    — 19 Route    ● Bus Stop    — Private Railroad    Potential Future Station    ▨ Project Site

## Analysis Assumptions – Trip Generation

- Net New External Trips Generated by Project:
  - AM Peak Hour: 332 Trips
  - PM Peak Hour: 577 Trips
  - Daily: 6,760 Trips
- Trip Generation Assumptions Account for Following Reductions:
  - Mode-Split (Transit, Walk, Bike Trips)
  - Internalization
  - Pass-By

# Analysis Assumptions – Analysis Scenarios

- Existing Conditions
  - Analysis Based on Traffic Counts Collected February 2017
- Existing Plus Background Conditions
  - Analysis Based on Existing Counts Plus Traffic Generated by Approved Development Expected to be Constructed Next 5-10 Years
- Cumulative Conditions
  - Assumes Year 2040 Forecasts Developed for Upcoming Circulation Element Update
  - Assumes Improvements at Following Intersections:
    - San Pablo Avenue/John Muir Parkway
    - San Pablo Avenue/Sycamore Avenue
    - Willow Avenue/Sycamore Avenue
    - Willow Avenue/EB SR 4 Ramps



## Analysis Results – General Overview

- Project is Expected to Increase Average Delay and Queuing at Intersections
- Project not Expected to Trigger Significant Impacts at Intersections Based on Significance Criteria

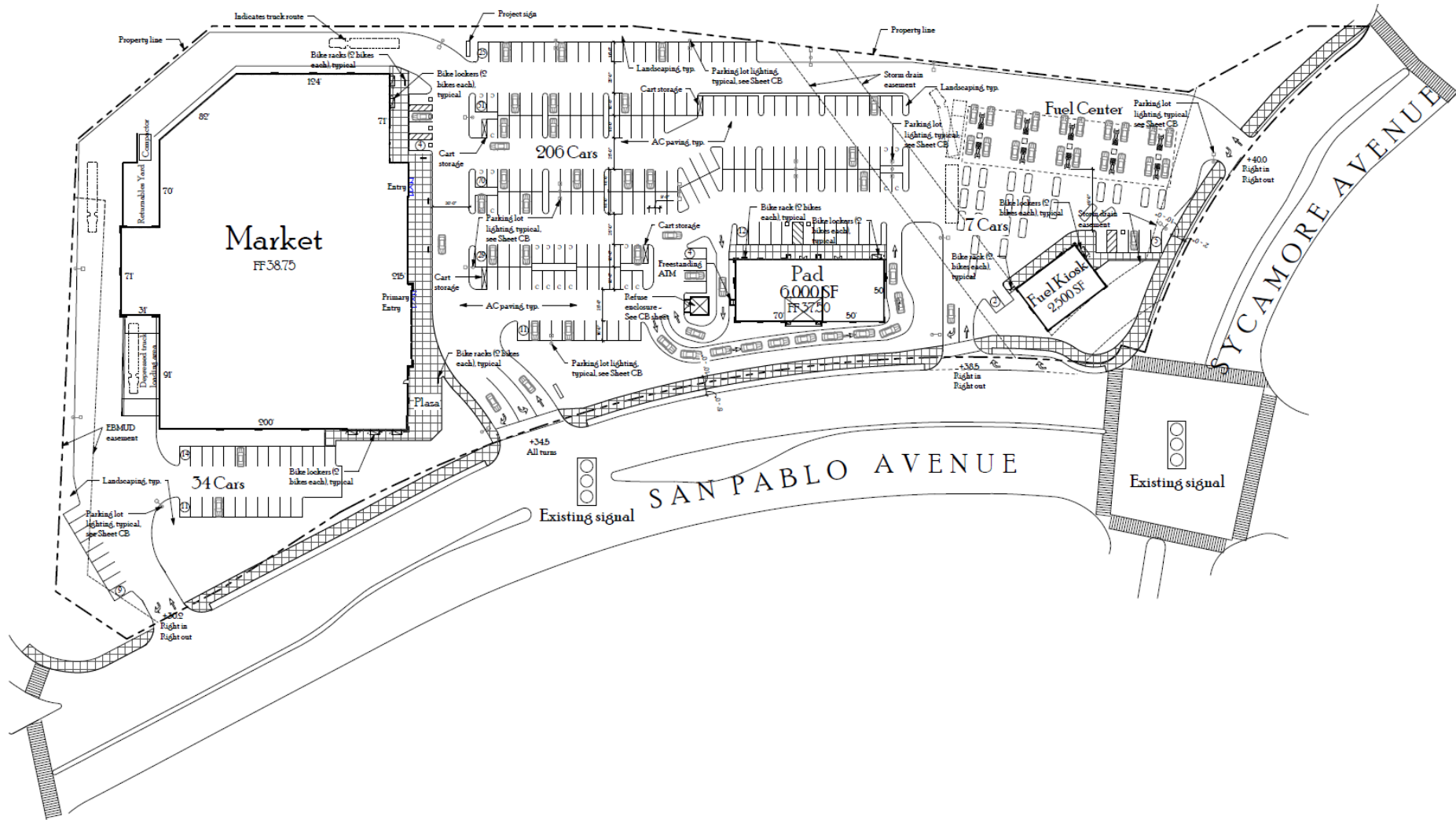
# Analysis Results – General Overview



## LEGEND

- Existing without Project PM Queue Length
- Existing with Project PM Queue Length
- # Study Intersection
- # Project Driveway

# Site Plan Recommendations



QUESTIONS?