

Grantville Master Plan Existing Traffic Conditions Study

Existing Conditions

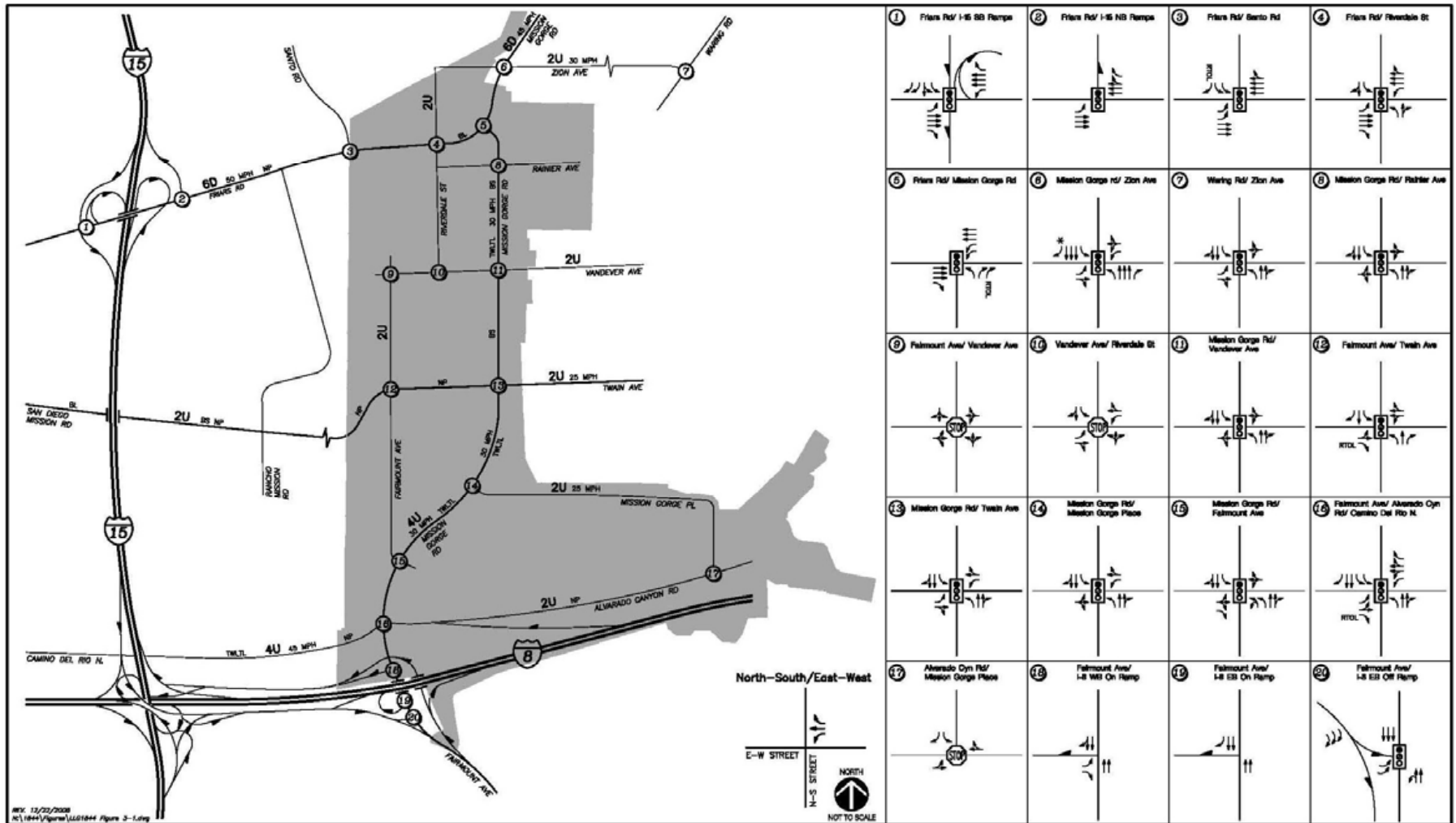


Figure 2-1

Existing Conditions Diagram



















LINSOTT LAW & GREENSPAN engineers

REV. 12/22/2008
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LEGEND

- - Project Area
- Ⓢ - Traffic Signal
- Ⓣ - All-Way Stop
- Ⓡ - Two-Way Stop
- * - Sweeper Lane
- BL - Bike Lane
- BS - Bus Stop
- NP - No Parking
- RTOL - Right Turn Overlap
- TMLT - Two-Way Left-Turn Lane
- 2U - Two lane undivided roadway
- 4D - Four lane divided roadway

Examples of Level Of Service

Level of Service	Automobile	Bicycle	Pedestrian
A/B	  		
C/D	  		
E/F	  		
			

Source: Florida DOT Quality of Service Handbook 2002



Existing Conditions

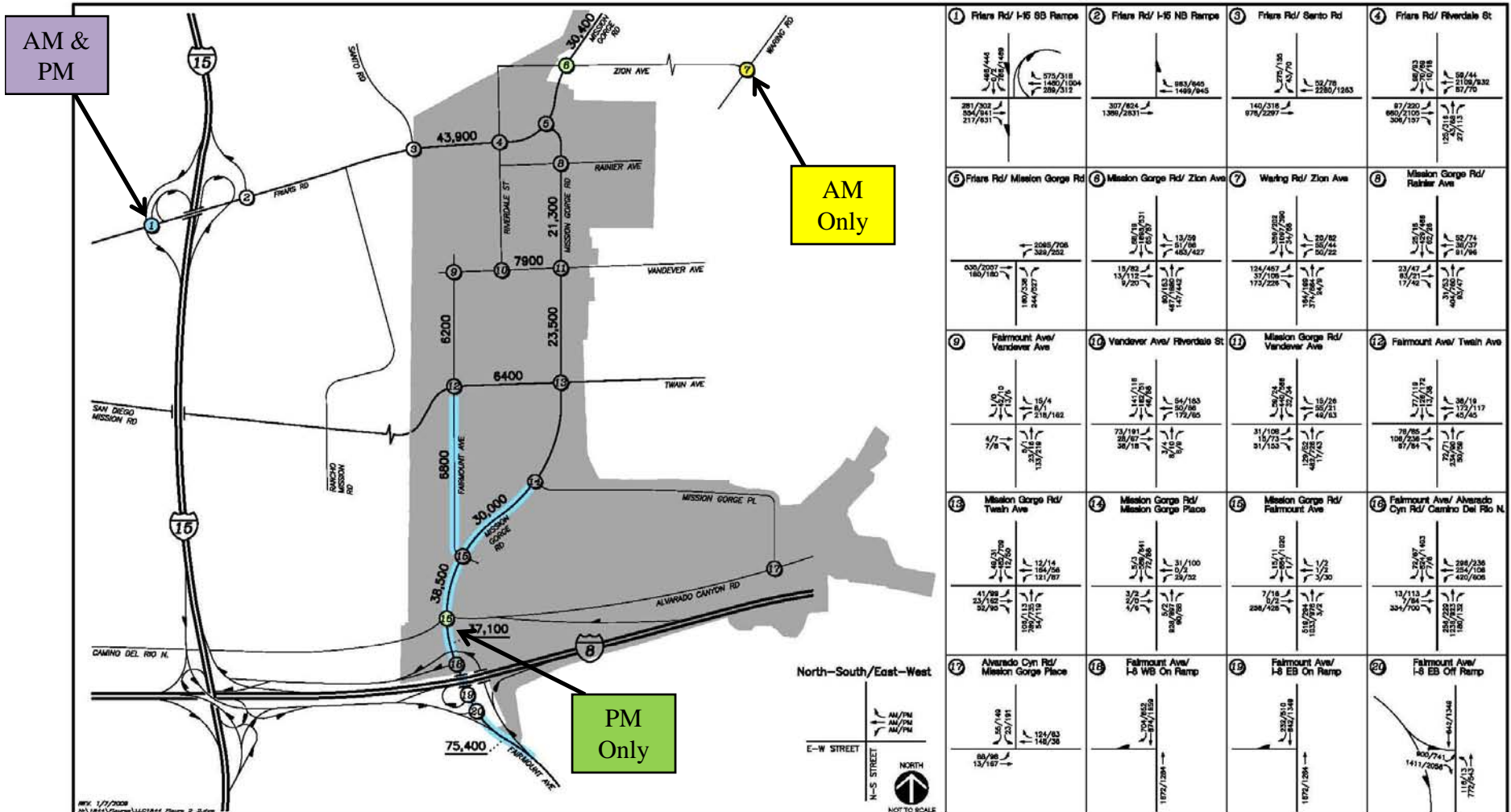


Figure 2-2

Existing Traffic Volumes
AM/PM Peak Hour & ADT

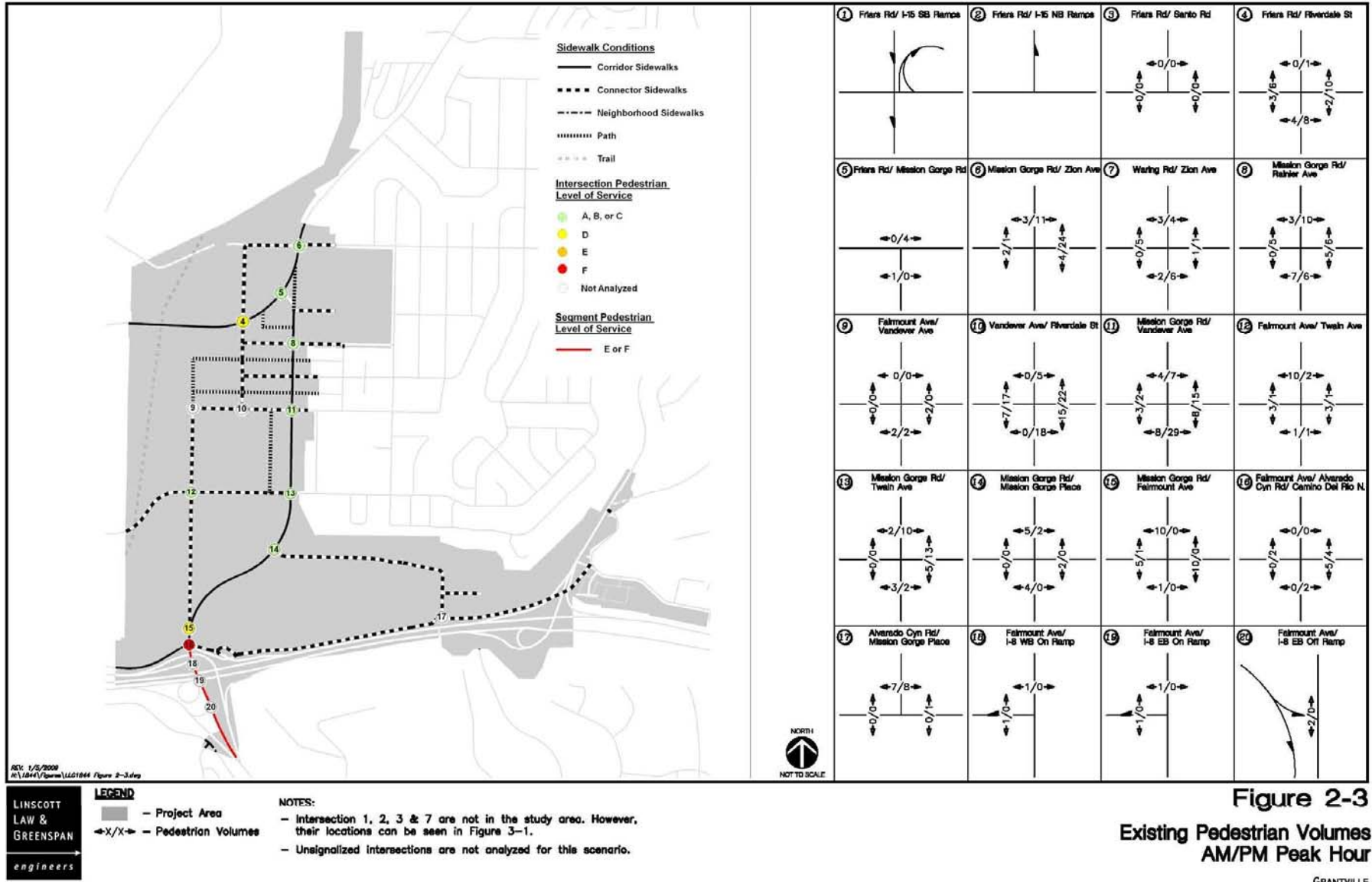
LINSCOTT
LAW &
GREENSPAN
engineers

NOTES:
- ADT (Average Daily Traffic) shown midblock
- AM/PM peak hour volumes are shown at the intersections

LEGEND
- Project Area
- Intersection Level of Service
○ - A, B, C & D
○ (with E, F) - E or F in AM Peak Hour Only
○ (with E, F) - E or F in PM Peak Hour Only

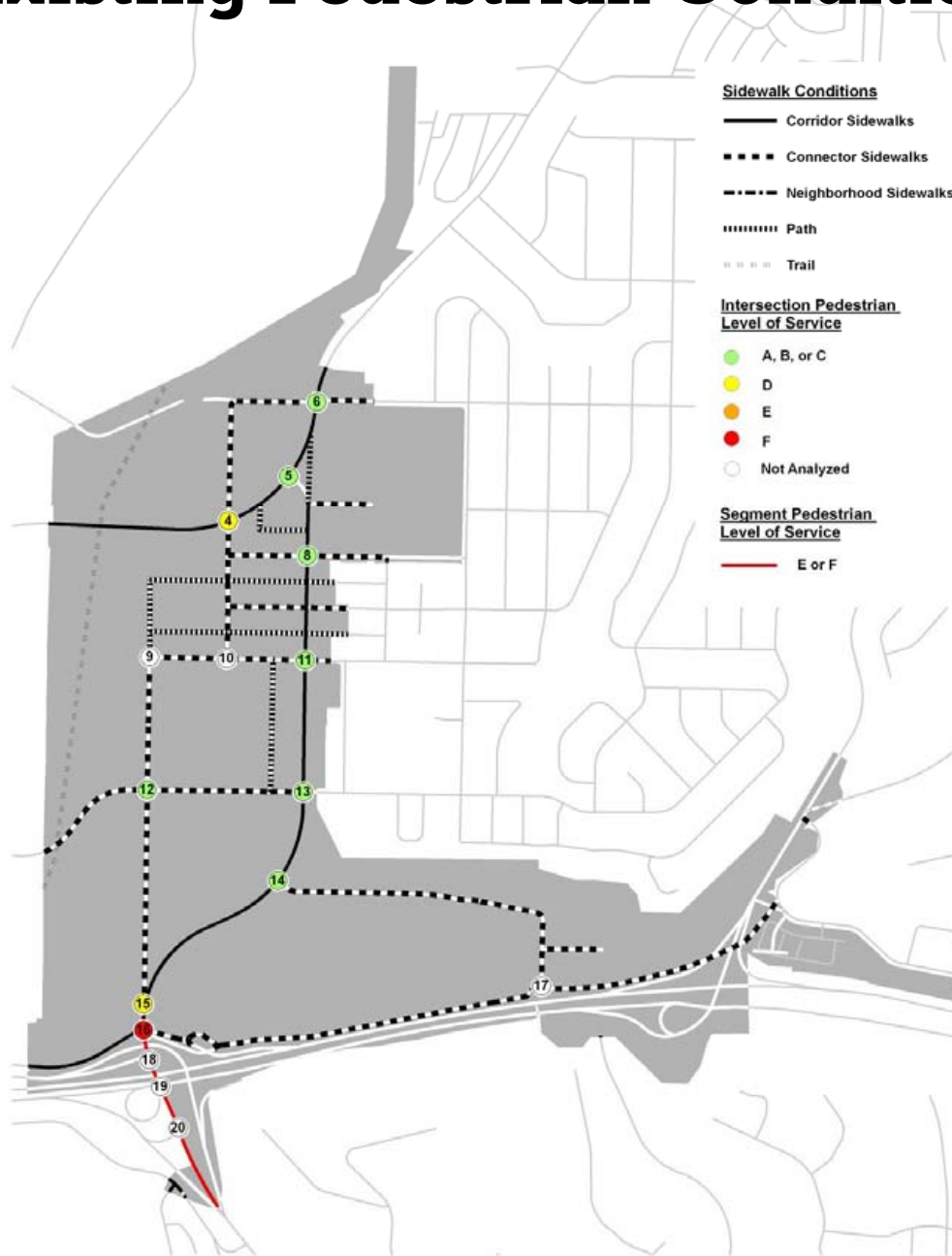
○ - E or F in Both AM & PM Peak Hour LOS
○ (with X) - Segment Level of Service
○ (with A, B, C or D) - Intersection Level of Service
— (with E, F) - E or F

Existing Pedestrian Conditions

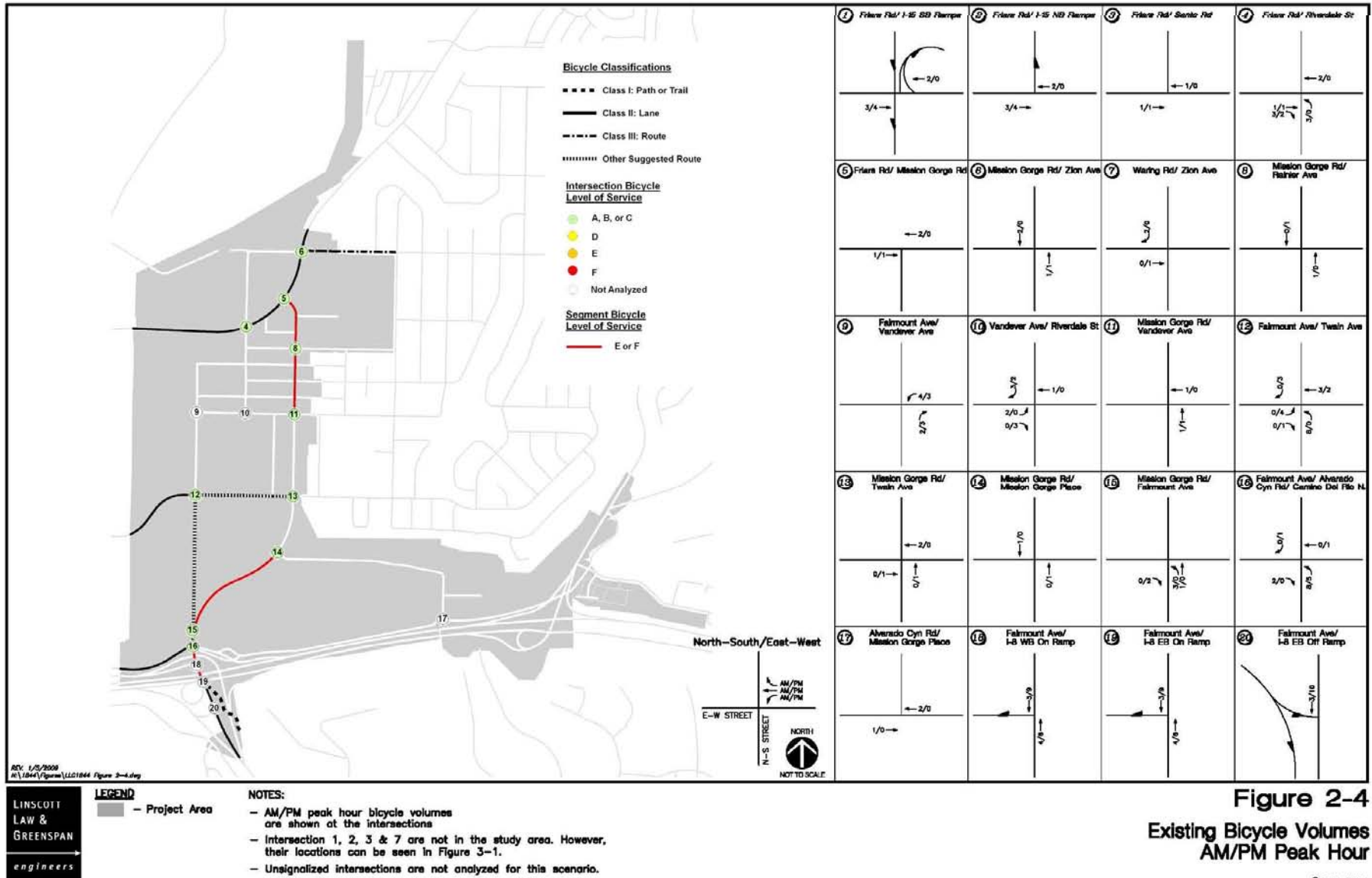


REV: 1/5/2009
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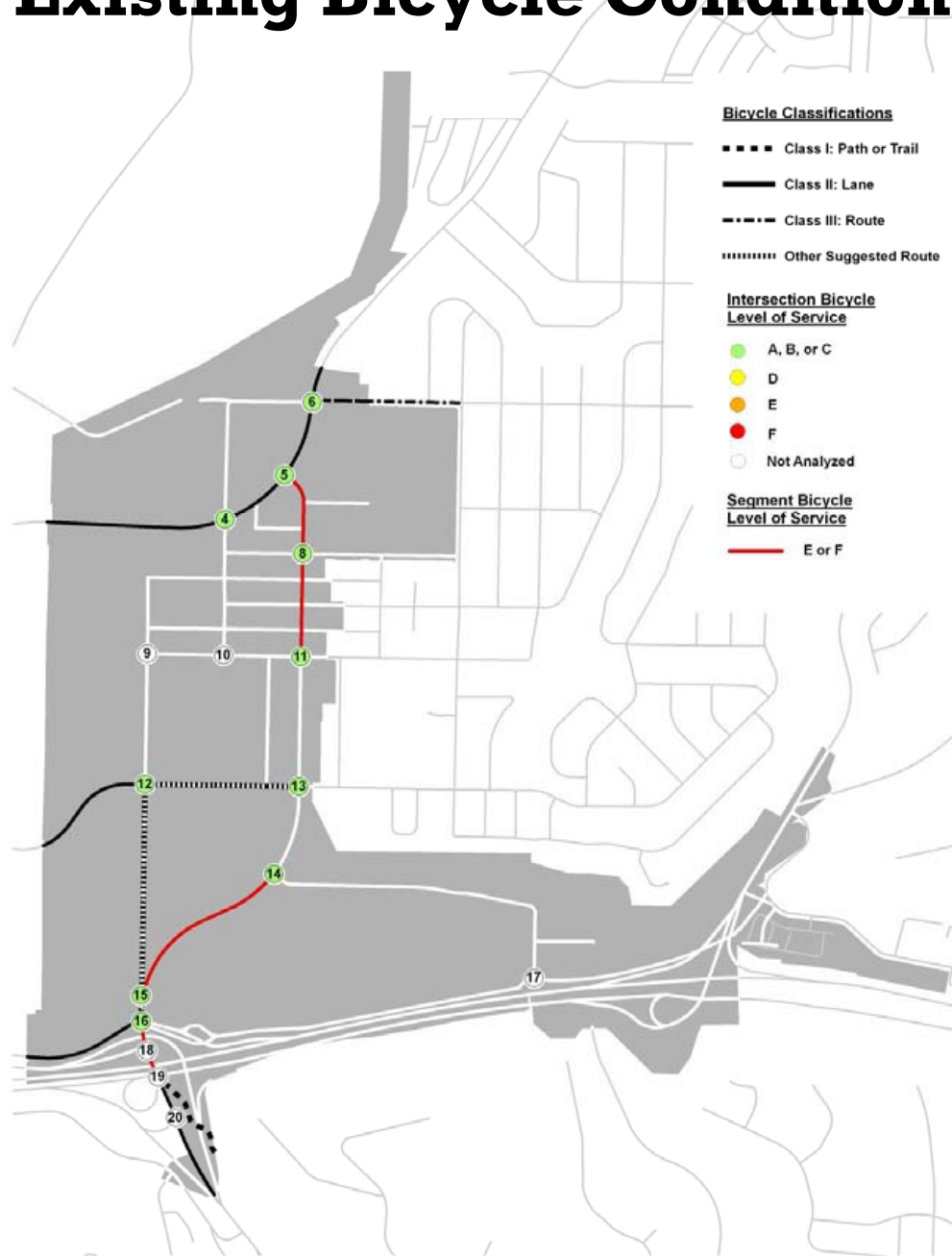
Existing Pedestrian Conditions



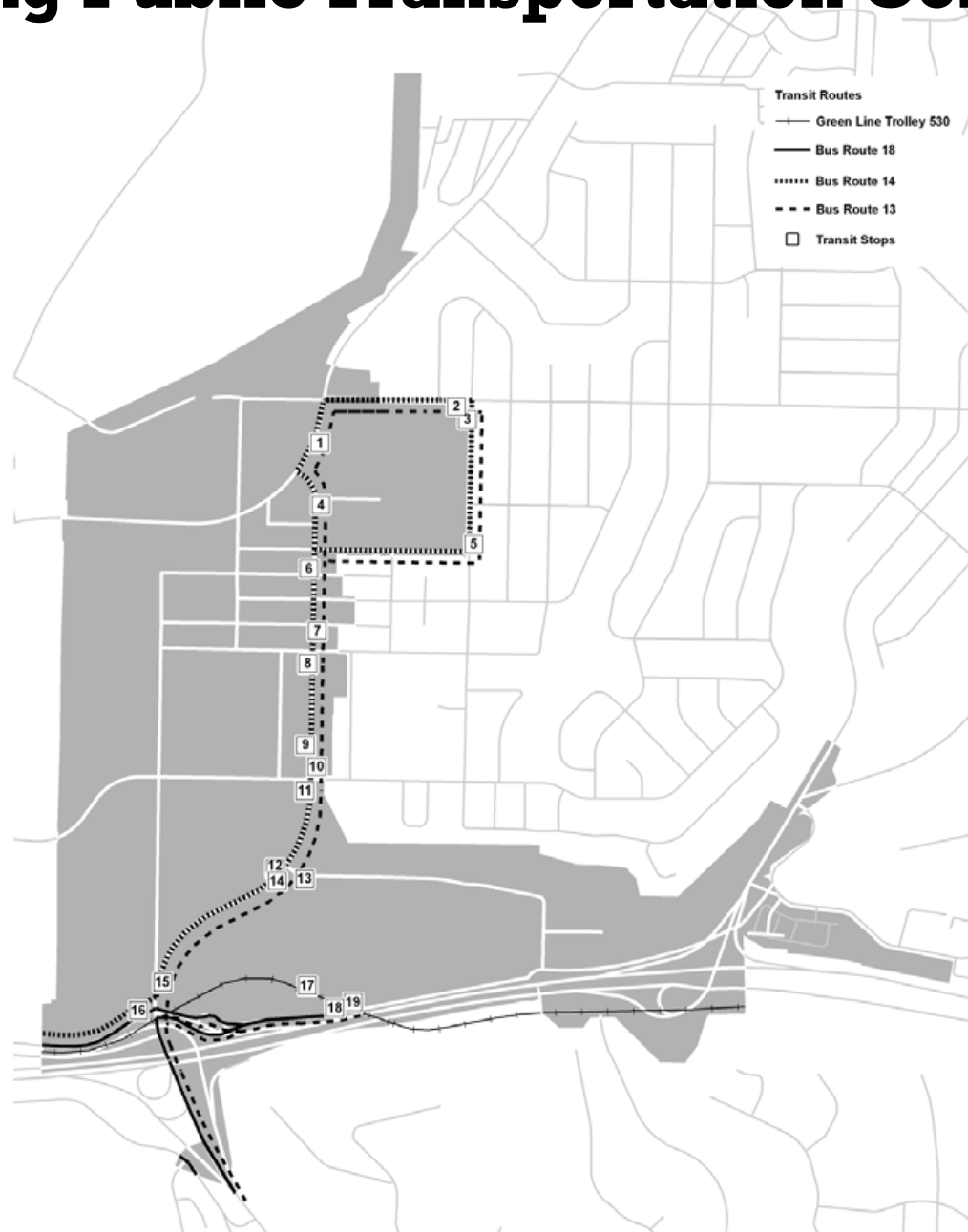
Existing Bicycle Conditions



Existing Bicycle Conditions



Existing Public Transportation Conditions



Existing On-Street Parking Conditions

Location	Mission Gorge Road and Fairmount Avenue Supply	Demand (# of Cars Parked)		
		11/18/2008	11/19/2008	11/19/2008
	Approximate Available Spaces	10:00 AM	2:00 PM	5:00 PM
Mission Gorge Road				
I-8 EB On Ramp to Alvarado Canyon				
East Side*	0	0	0	0
West Side*	0	0	0	0
Alvarado Canyon to Fairmount Ave				
East Side	0	0	0	0
West Side	0	0	0	0
Fairmount Ave to Mission Gorge Place				
East Side	13	5	4	4
West Side	0	0	0	0
Mission Gorge Place to Twain Ave				
East Side	7	6	6	4
West Side	5	4	5	3
Twain Ave to Vandever Ave				
East Side	16	10	9	6
West Side	10	9	7	6
Vandever Ave to Rainier Ave				
East Side	8	8	8	3
West Side	6	4	6	5
Rainier Ave to Mission Gorge Rd/Friars Rd				
East Side	6	6	4	7
West Side	0	0	0	0
TOTAL	70	52	49	38
Fairmount Avenue				
Mission Gorge Rd to Twain Ave				
East Side	7	5	4	0
West Side	0	0	0	0
Twain Ave to Vandever Ave				
East Side	21	21	21	4
West Side	20	21	17	3
TOTAL	47	47	42	7
GRAND TOTAL	117	99	91	45

* East / West Side of Street

Existing Crash Analysis

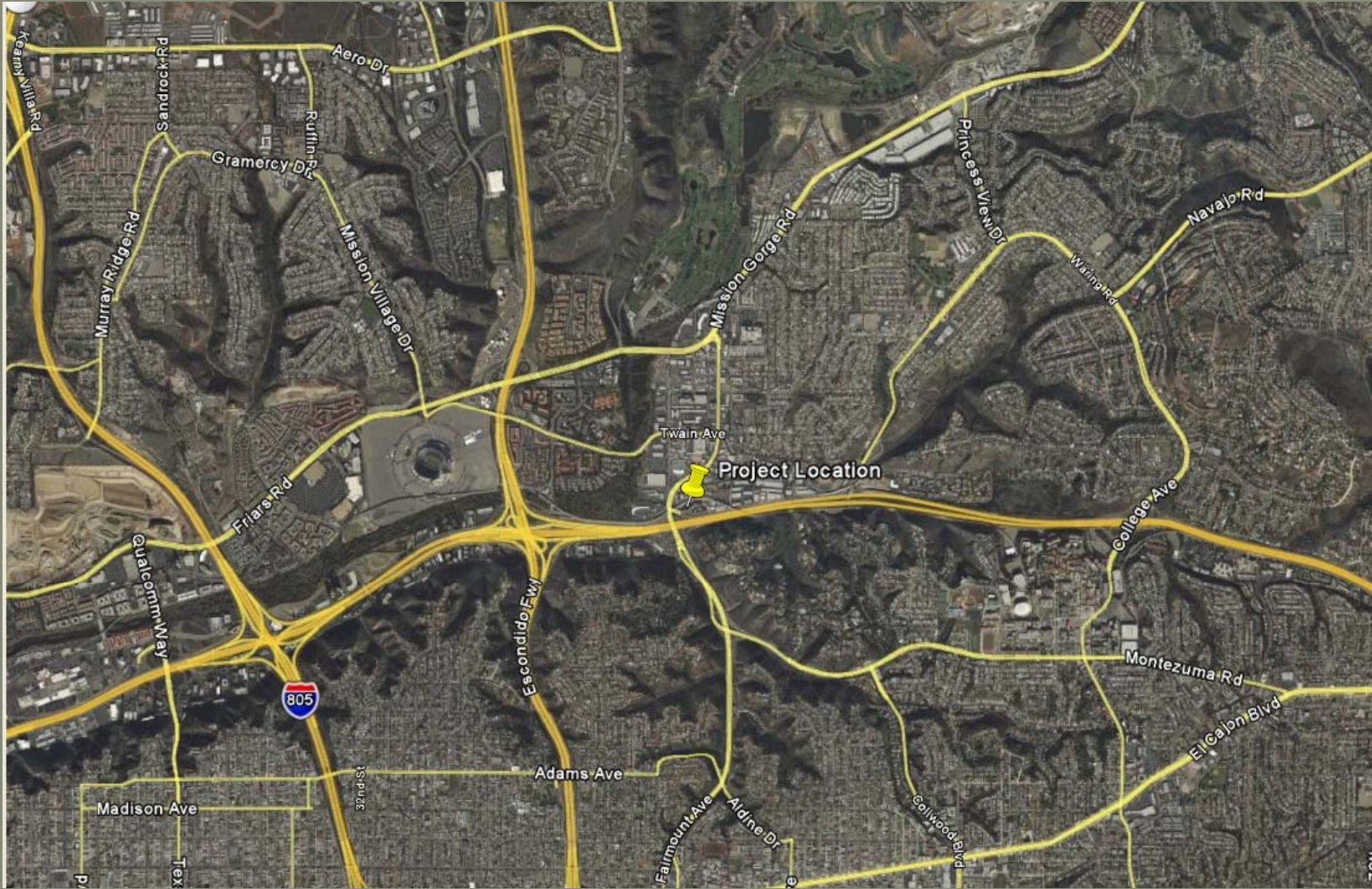
Street Segment	Length Miles	Total Number Of Collisions In Five (5) Years ^a	Actual Collision Rate ^b	City Wide Collision Rate
Friars Road				
Santo Rd to Mission Gorge Rd	0.4	20	0.58	0.28
Mission Gorge Road				
Greenbier Ave to Zion Ave	0.4	8	0.36	0.28
Zion Ave to Friars Rd	0.1	14	1.80	0.28
Friars Rd to Rainier Ave	0.1	10	1.84	0.67
Rainier Ave to Vandever Ave	0.2	14	1.50	0.67
Vandever Ave to Twain Ave	0.2	12	1.17	0.67
Twain Ave to Mission Gorge Pl	0.1	13	2.17	0.67
Mission Gorge Pl to Fairmount Ave	0.2	23	1.75	0.67
Fairmount Avenue				
Vandever Ave to Twain Ave	0.2	5	1.84	0.98
Twain Ave to Mission Gorge Rd	0.3	3	0.71	0.98
Mission Gorge Rd to Alvarado Canyon Rd	0.1	6	0.61	0.67
Alvarado Canyon Rd to I-8 WB Ramps	0.1	25	2.64	0.67
I-8 WB Ramps to Camino del Rio S	0.3	8	0.17	0.28
Vandever Avenue				
Riverdale St to Mission Gorge Rd	0.1	9	4.46	0.98
Mission Gorge Rd to Decena Dr	0.1	1	0.69	0.98
Twain Avenue				
Fairmount Ave. to Mission Gorge Rd.	0.2	4	1.43	0.98
Alvarado Cyn Rd				
Mission Gorge Rd.to Mission Gorge Pl.	0.6	7	0.64	0.98
Riverdale St				
Vandever Ave to Friars Rd	0.2	7	1.60	0.98



Alvarado Canyon Road Realignment Study

Presented to:
Grantville Stakeholders' Committee

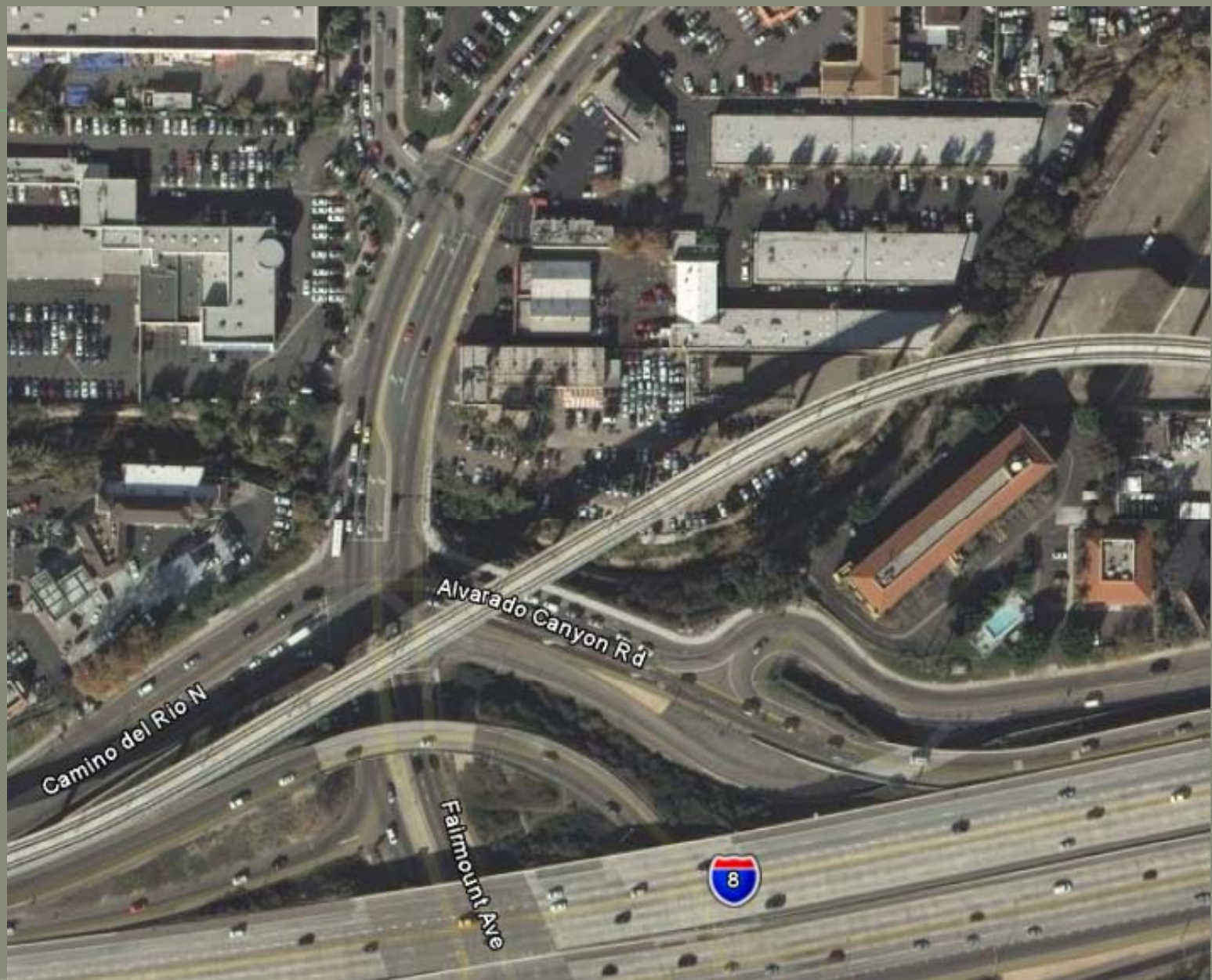
Project Vicinity



Project Description

- The City of San Diego is proposing to realign Alvarado Canyon Road.
- Alvarado Canyon Road is a two lane collector.
- Currently Alvarado Canyon Road merges with the off ramp from Interstate 8.

Existing Alignment



Project Goals

- Improve traffic circulation on Alvarado Canyon and Mission Gorge Roads (currently 4 street segments operate below acceptable LOS)
- Improve hydraulics under Mission Gorge Road
- Minimize ROW impacts

Proposed Improvements

- Abandon the existing Alvarado Canyon Road connection to Mission Gorge.
- Realign Alvarado Canyon Road to connect to Mission Gorge Road at the existing Fairmont Avenue intersection.
- Restripe the existing westbound freeway off ramp after removing the Alvarado Road connection.
- Reconfigure the Mission Gorge Interchange at Interstate 8 to eliminate the turn pockets to the abandoned Alvarado Road connection.
- Reconstruct the traffic lights at the Mission Gorge Interchange at Interstate 8.
- Add dedicated right turn lane from Mission Gorge Road to west bound I-8.

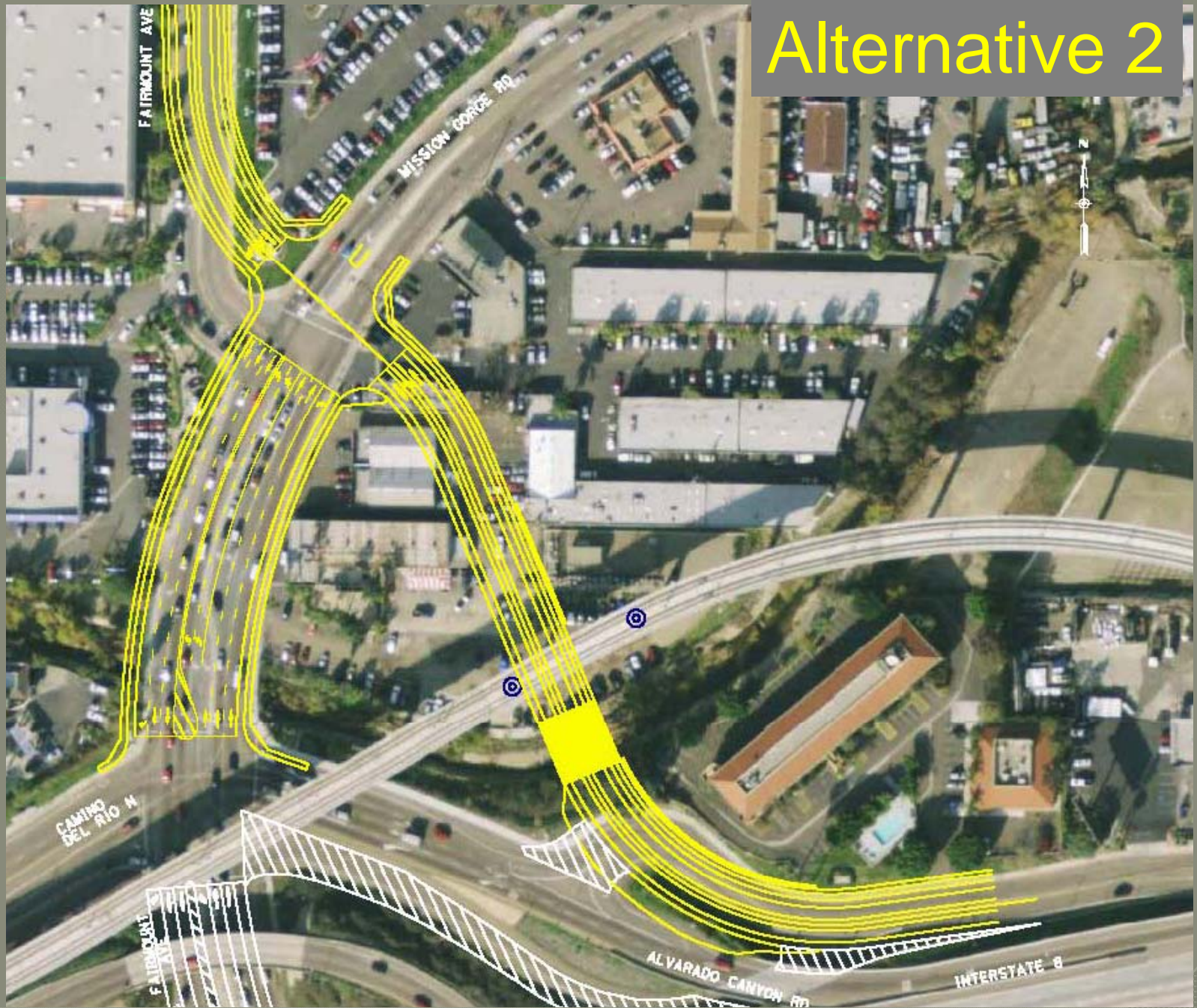
Project Alternatives

- 4 Proposed Alternatives
- Differ in regard to:
 - Design Speed (Horizontal Curve)
 - Alignment of Alvarado Canyon Road
 - Improvements and Alignment of Fairmont Avenue
 - Improvements to Mission Gorge Road
 - ROW Impacts

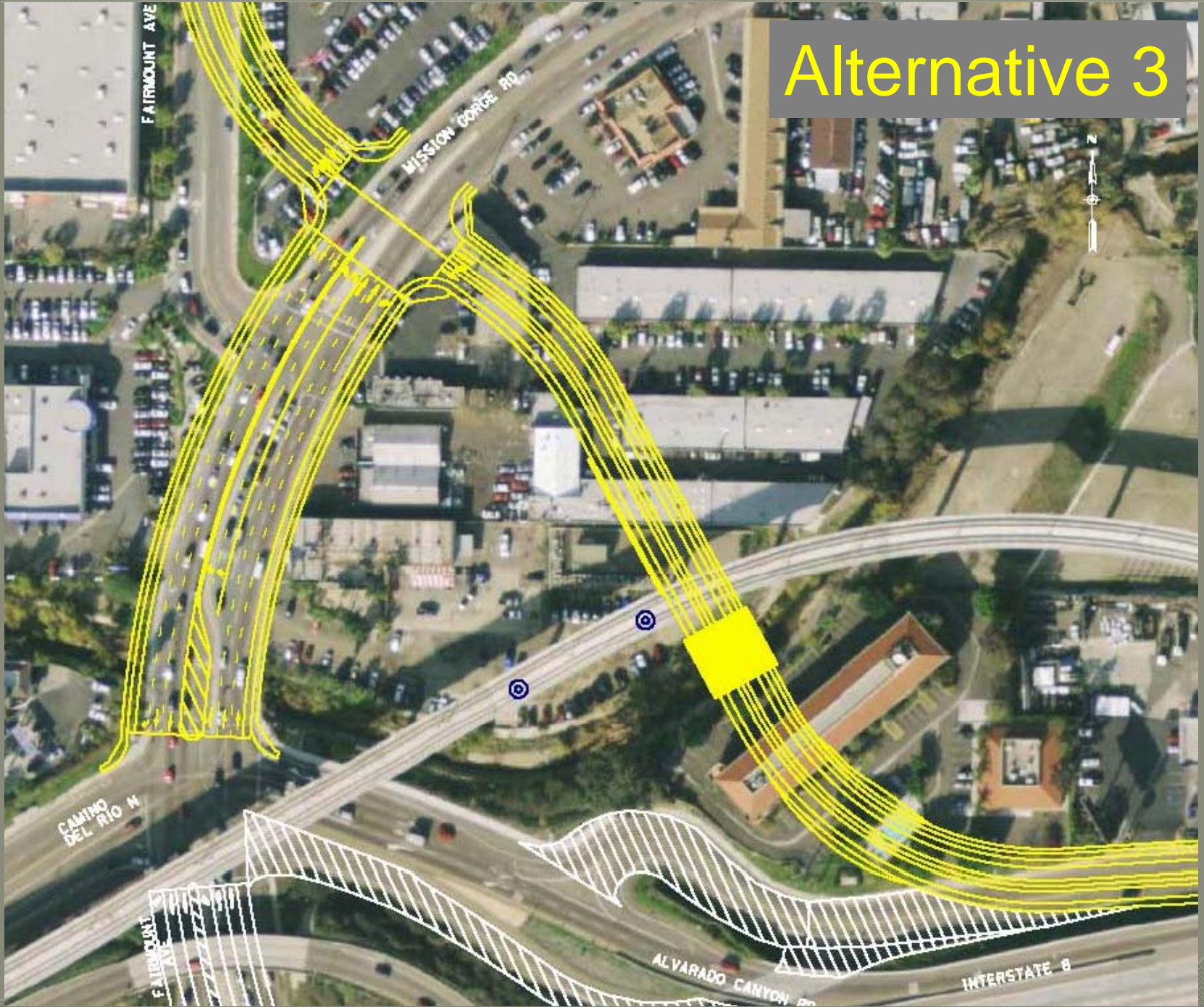
Alternative 1



Alternative 2



Alternative 3



Alternative 4



Alternative 1

