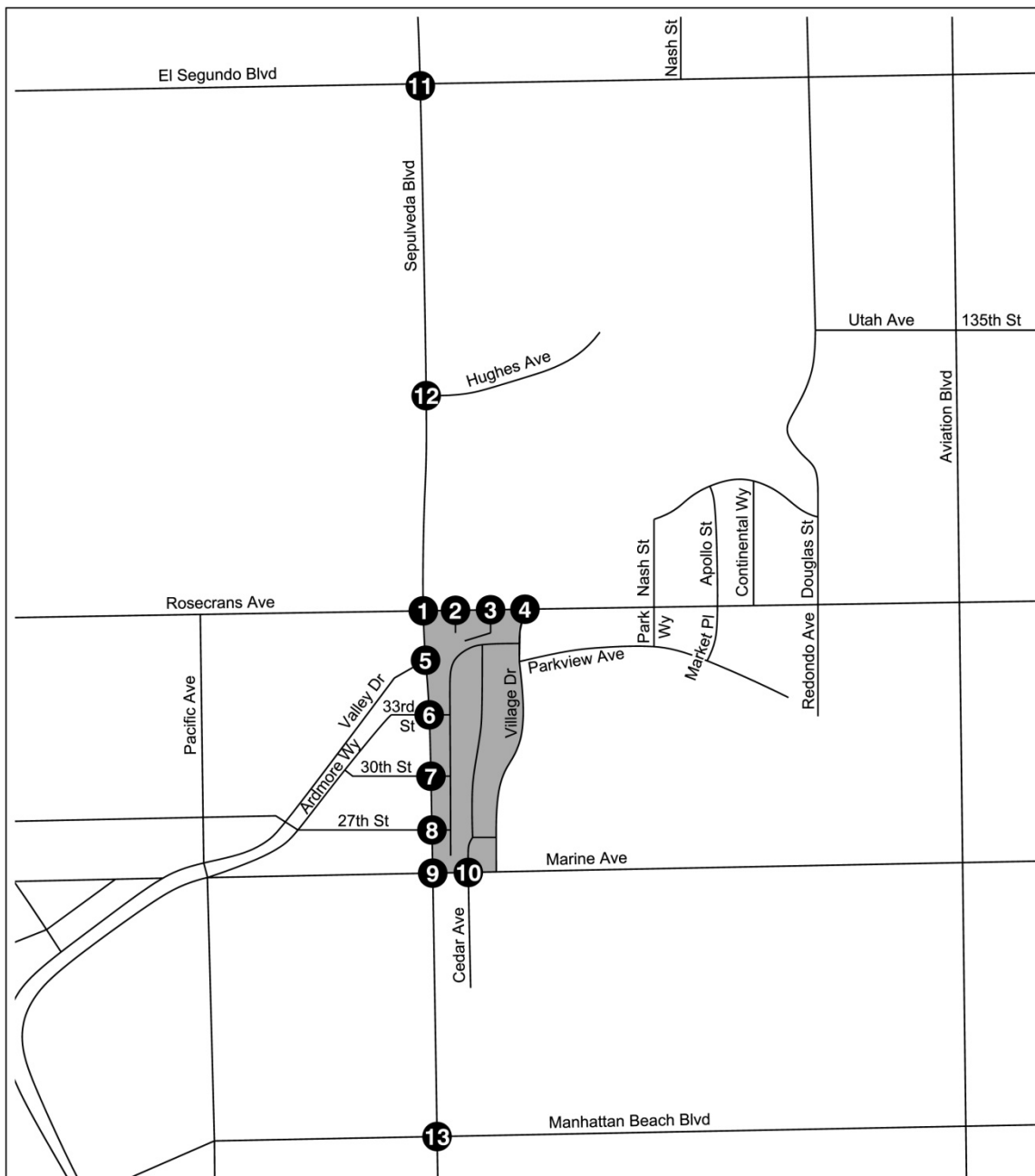


MANHATTAN VILLAGE ENHANCEMENT PROJECT

Traffic & Parking Analysis

Manhattan Beach City Council

September 2013



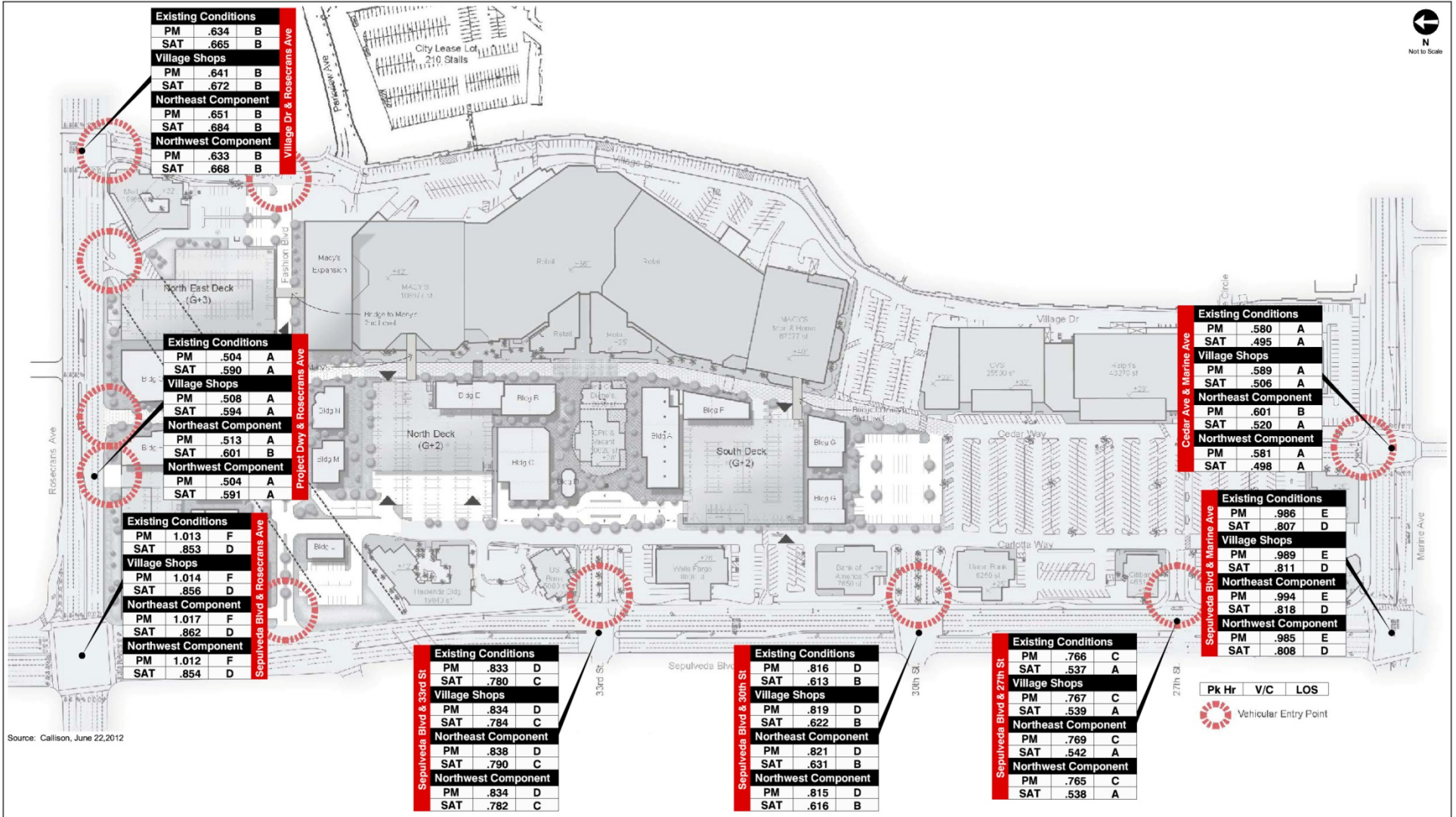
LEGEND

- Project Site
- # Analyzed Intersection



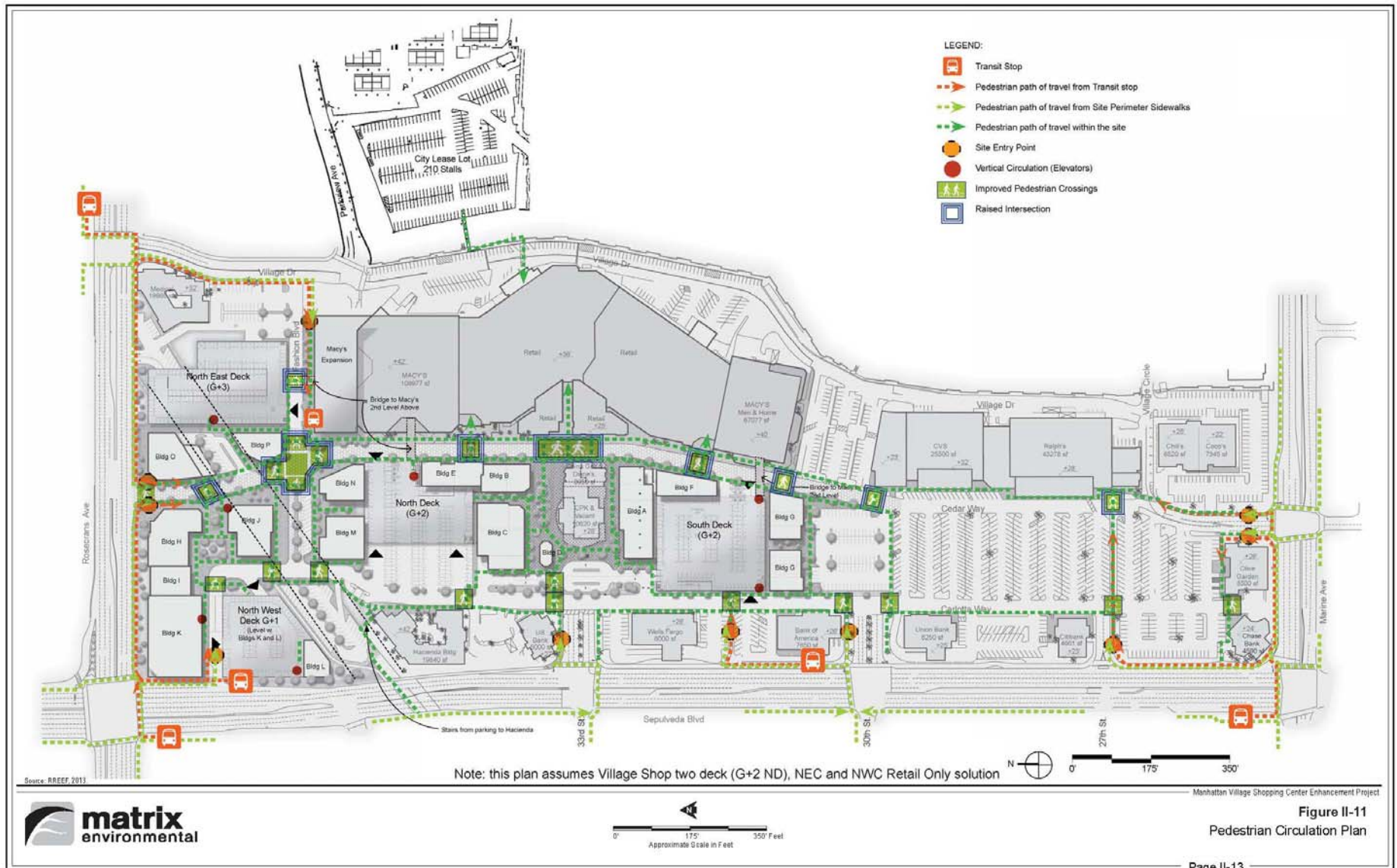
Not to Scale

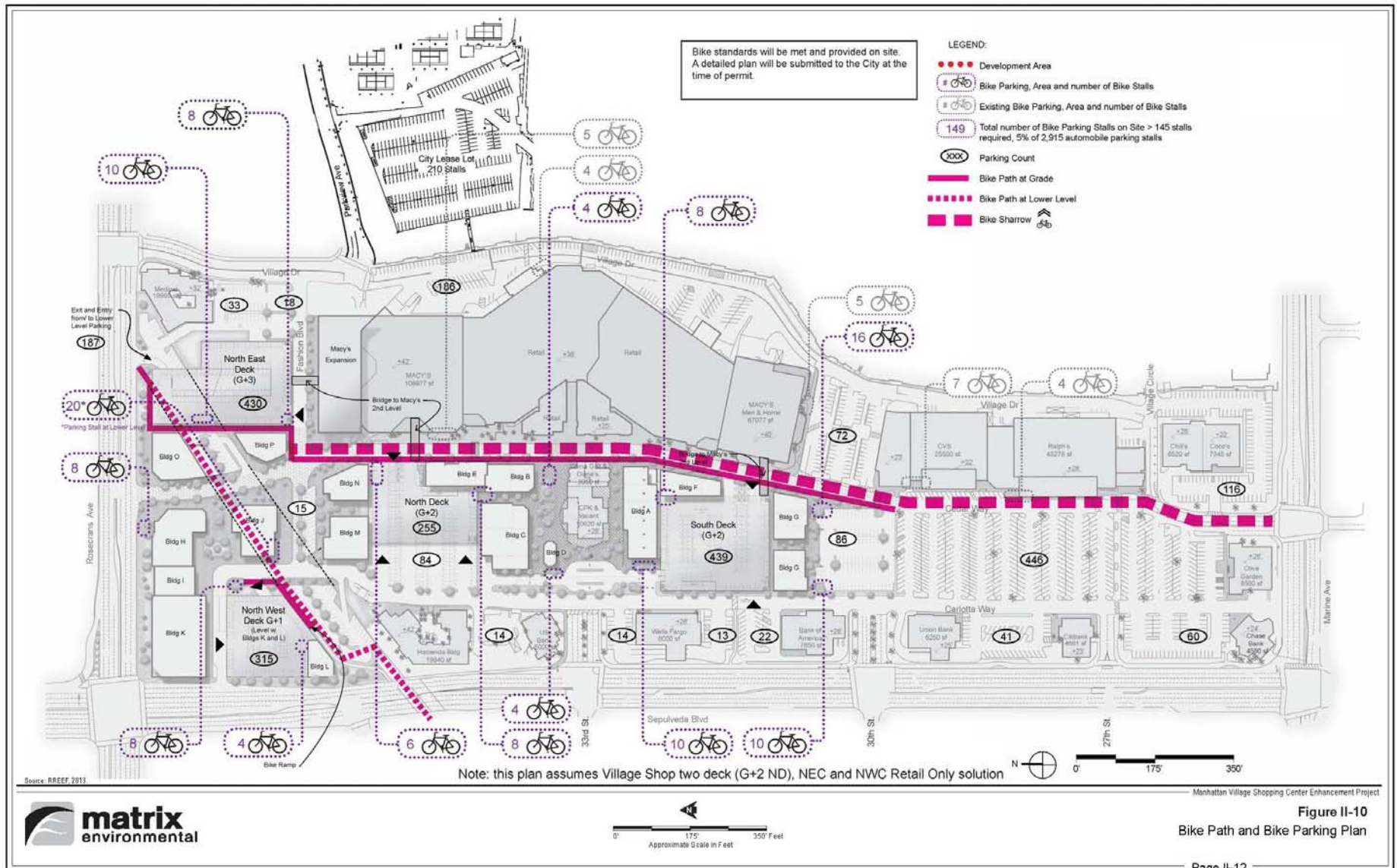
Intersection LOS Results

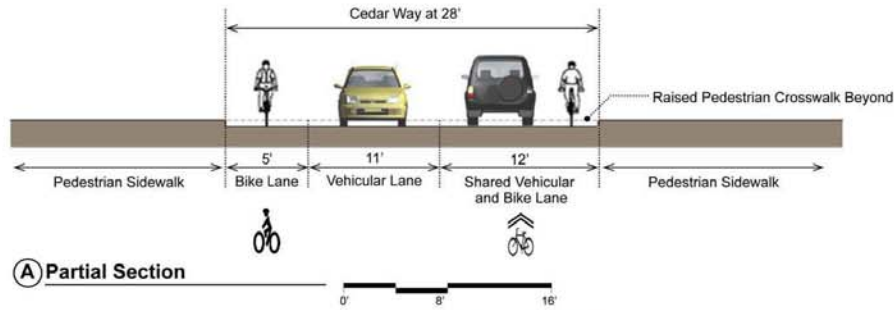


Project Improvements

- **Dedicate ROW for Sepulveda Bridge Widening**
- **Rosecrans Deceleration Lane**
- **Cedar Way**
- **Veterans Pkwy Pedestrian and Bike Corridor**
- **Internal Circulation**
- **Construction Management Plan**





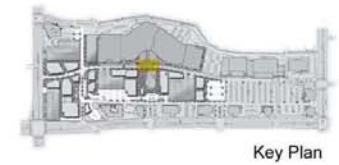


(A) Partial Section



(B) Enlarged Cedar Way Plan

- Notes**
- ① Raised Crosswalk without Curb
 - ② Street Specialty Paving
 - ③ Crosswalk Specialty Paving
 - ④ Plaza Paving
 - ⑤ Street Trees
 - ⑥ Landscape pots
 - ⑦ Cafe seating
 - ⑧ Street Furnishing
 - ⑨ Entry to Mall
 - ⑩ Existing Mall
 - ⑪ Existing Plaza Building (CPK)
 - ⑫ Building B



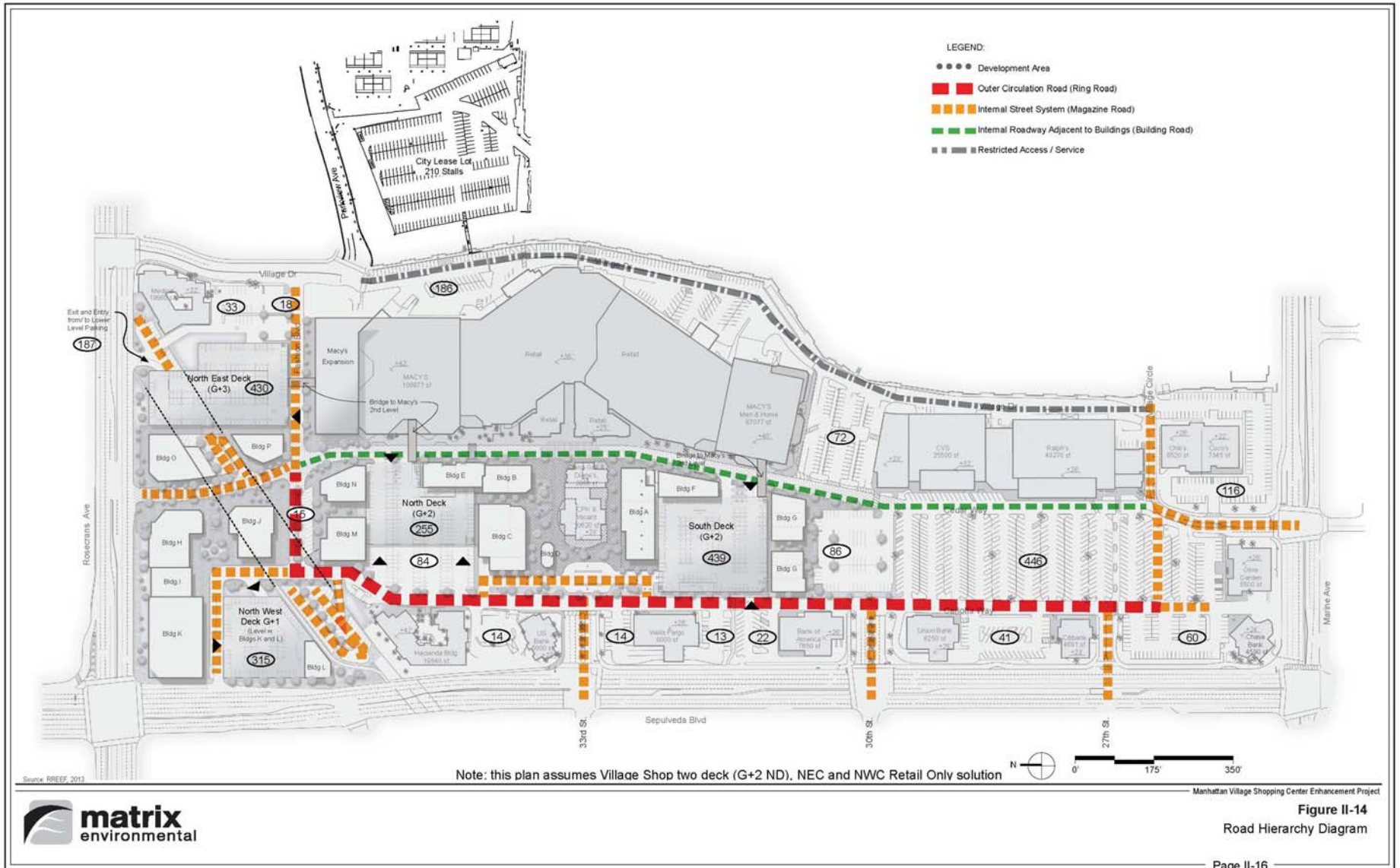
Source: RREEF, 2013

Manhattan Village Shopping Center Enhancement Project



Figure II-13
Cedar Way Bike Path, Village Shops Component





Traffic Analysis Summary

- **Tested Combinations of Project Components**
- **Finding: No Significant Intersection Impacts**
- **Defined Trip Equivalency Program**

Parking

- **National Standard: 4.5 spaces/1,000 sf**
- **Maintain 4.1 Spaces/1,000 sf Parking Ratio**
- **2,856 Spaces to 3,142 Spaces**
- **Holiday Parking Management Plan**
- **Tested Demand by Month During and After Construction**

1. HOW MUCH GROWTH IS CAUSED BY THE MVSC ENHANCEMENT PROJECT?

The number of net new Project trips is relatively small when compared to existing background traffic levels.

STREET USAGE

Existing plus Phases 1 + 2

	<u>ADT</u>	<u>PM Peak Hour</u>
• Sepulveda	66,240	5,300
• Rosecrans	35,750	3,220
• Marine	<u>14,350</u>	<u>1,435</u>
Total	166,340	9,955
MVSC Ph 1+2	715	176
Increase	0.4%	1.8%

PM PEAK HOUR INTERSECTION USAGE

Future w Phases 1 + 2

	<u>Volume</u>	<u>Shop Center</u>			
Sepulveda at		New	Tot	% New	% of Tot
• El Segundo	8,950	40	597	0.4	6.7
• Rosecrans	9,690	43	682	0.4	7.0
• Marine	7,275	77	949	1.1	13.0
• MB Blvd	7,204	40	597	0.6	8.3

CONCLUSIONS

Because of the Change in Land Uses:

- Project Represents a Small (<1%) Increase in Ambient Traffic Levels
- Project Generates the Same Number of Trips in the PM Peak Hour
- Project Needs More Parking Due to Increased Length of Stay

2. WHY DOES TRAFFIC NOT INCREASE IN THE PM PEAK HOUR?

We are replacing high activity land uses with less intense land uses.

EXAMPLE

9,000 sf			9,000 sf
7-11	Coffee / Donut Shop	Liquor Store	Restaurant

PM Peak Hour Trips

436

89

Parking Demand

12

90

EXAMPLE

Replacing high-activity land uses can

- **Decrease Traffic**
- **Increase Parking**

TRIP GENERATION RATES

(Trips/1,000 sf)		
	Daily	PM Peak Hour
Retail	34.4	3.35
Fry's	45.2	8.15
Cinema	107.2	4.74

Source: ITE *Trip Generation* manual

TRIP GENERATION

		Daily	PM Peak Hour
Existing	Retail	19,560	1,893
	Fry's	2,081	375
	<u>Cinema</u>	<u>1,876</u>	<u>83</u>
	Total	23,517	2,351
Proposed	Retail	23,979	2,335
	Difference	462	-16

3. PHASING

Does Project traffic work prior to Fry's closure?

SIGNIFICANT IMPACT CRITERIA

<u>Level of Service</u>	<u>Change in V/C</u>
D	0.02
E	0.01
F	0.01

IMPACTS BY CONSTRUCTION COMPONENT

Component	PM Peak Hour Trips	Sepulveda / Marine			Sepulveda / Rosecrans		
		LOS	Change in V/C	Significant Impact	LOS	Change in V/C	Significant Impact
I	147	E	0.003	NO	F	0.001	NO
I + II	176	E	0.008	NO	F	0.004	NO
I + II + III	-16	E	-0.001	NO	F	-0.001	NO

4. WHY MUST PARKING SUPPLY INCREASE?

We are replacing short-term parking demand with long-term parking demand.

PARKING DEMAND RATE

	<u>Spaces/1,000 sf</u>	<u>Duration</u>
Retail	4.1	90 minutes
Fry's	3.7	30 minutes
Cinema	19.8	120 minutes

PARKING SPACE USAGE

		Veh/Day	Duration	Vehicle Hours
Existing	Retail	9,780	1.5	14,670
	Fry's	1,040	0.5	520
	Cinema	<u>938</u>	2.0	<u>1,876</u>
		11,758		17,066
Proposed	Retail	11,990	1.5	17,985
			Difference	919

PARKING SUPPLY EFFECTS

$$\frac{919 \text{ sp hours/day}}{1.5 \text{ hours}} = \frac{613 \text{ spaces/day}}{3 \text{ veh/sp/day}} = \mathbf{204 \text{ spaces needed}}$$

5. WHAT IS THE PROJECT'S EFFECT ON NEARBY LOCAL RESIDENTIAL STREETS?

1. Congestion on Arterials
2. Project Traffic of >1,200 ADT
3. Parallel Local Street

Neighborhood Cut-Through

1. Congestion on Arterials

2. Project Traffic of >1,200 ADT

North	338 ADT	40 vph
South	338 ADT	40 vph

3. Parallel Local Street

Traffic and Parking Conclusions

- **Project does not Generate Significant Traffic or Parking Impacts**
- **Construction Scheduled to Meet Parking Demand**
- **Internal and External Circulation Improvements**