

Darnell & ASSOCIATES

TRANSPORTATION PLANNING & TRAFFIC ENGINEERING

March 4, 2022

Mr. Rafid Hamika
370 Bridgeton Cross Court
Las Vegas, NV. 89148
C/O Jason Greminger

D&A Ref. No: 191201

Subject: Revised Local Mobility Analysis (LMA) and Vehicle Miles Travelled (VMT) for Old Highway 395 Retail Center. PDS-STP-20-021, PDS-ER-02-003, APN#125-050-54

Dear Mr. Hamika

In accordance with your authorization Darnell Associates, Inc. has completed the following transportation analysis reports for the subject:

- Scoping Agreement for Transportation Studies
- Local Mobility Analysis (LMA)
- Year 2050 Traffic Operation Analysis for Old Highway 395 Retail Center in Fallbrook.

Figure 1 is a Vicinity Map showing the location of the project and Figure 2 presents the proposed Site Plan. The proposed is a small general commercial project consisting of two 6,000 square foot retail buildings and a 3,250 square foot convenience store with 12 vehicle fueling stations.

Scoping Agreement for Transportation Studies

The County of San Diego Scoping Agreement for Transportation Studies is presented in Attachment A. The Scoping Agreement identifies the project will generate 2,918 daily trips and with pass by reductions will add 1,310 daily trips to the surrounding roadways. Based on the County Guidelines the project is required to prepare a Local Mobility Analysis (LMA) report.

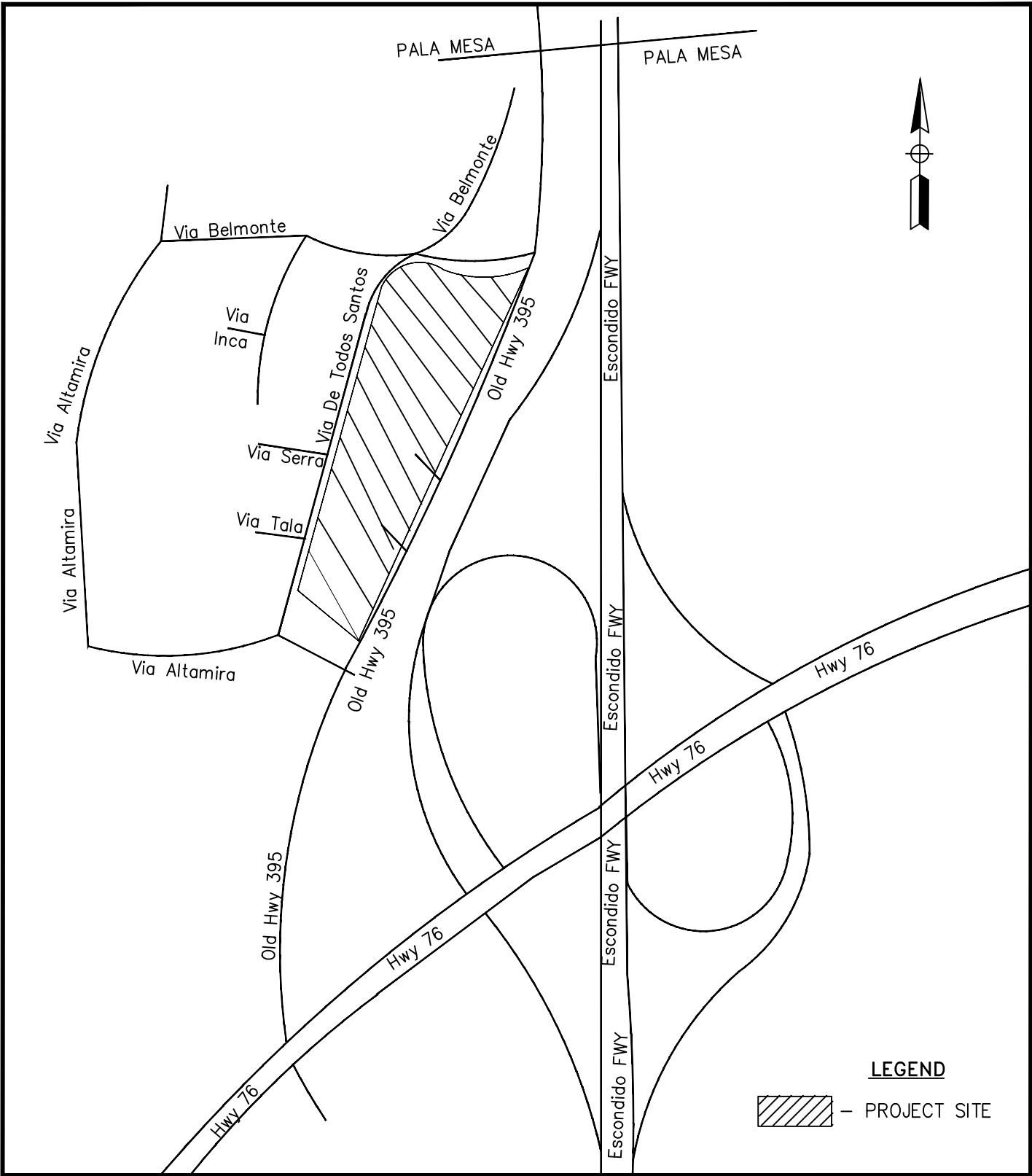
The Scoping Agreement for the project identified the subject project is screened from CEQA Transportation Analysis. In addition the project is identified as a locally serving retail project less than 50,000 square feet and is significant VMT impact. Therefore no additional VMT Analysis is required.

A summary of the Vehicle Miles Travelled (VMT) Local Mobility Analysis (LMA) and the Year 2050 Analysis reports and summarized here.

Vehicle Miles Travelled (VMT) Analysis

The Governor's Office of Planning and Research (OPR) provided a Technical Advisory on evaluating transportation impacts for CEQA in 2018. The advisory states adding retail opportunities improve destination proximity and tend to reduce VMT. Retail projects consisting of less than 50,000 square feet are considered *locally-serving* and lead agencies may presume such development creates a less than significant impact for transportation.

The proposed retail project consisting of a 3,250 convenience store with 12 vehicle fueling positions and 12,000 square feet of retail space is less than 50,000 square feet and is considered to have a less than significant impacts and is screened from further VMT analysis or mitigation.



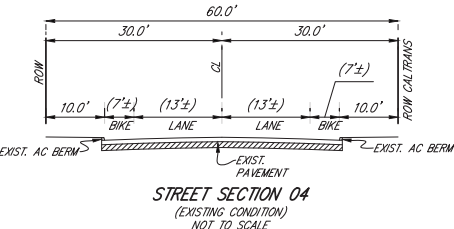
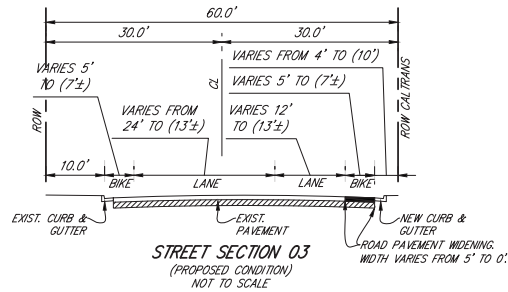
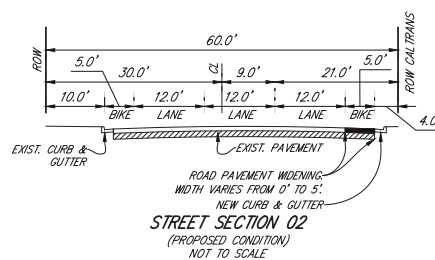
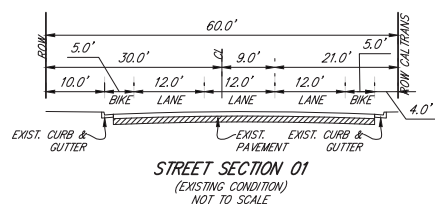
Darnell & ASSOCIATES

191201 -AC.dwg 10-26-2021 JAM

FIGURE 1
VICINITY MAP

LEGEND

BOUNDARY LINE	---
RIGHT OF WAY LINE	--- RW ---
PARCEL LOT LINE	--- PL ---
PCC CURB	=====
PCC CURB & GUTTER	=====
SEWER LINE	— S — S — S
WATER LINE	— W — W — W
FIRE LINE	— F — F — F
FIRE HYDRANT	⊕
BLDG FIRE SERVICE LATERAL	⊕ (F)
WATER SERVICE LATERAL	⊕ (W)
SEWER SERVICE LATERAL	⊕ (S)
DOUBLE DETECTOR CHECK VALVE	⊕ (D)
STORM DRAIN INLETS / CLEANOUTS	⊕ (I)
HEADWALL	▬
HEADWALL	▬
EXIST. TOPO MAJOR CONTOUR	--- 1000 ---
EXIST. TOPO MINOR CONTOUR	--- 1000 ---
PROPOSED TOPO MAJOR CONTOUR	— 1000 —
PROPOSED TOPO MINOR CONTOUR	— 1000 —



OWNER
 RAYES LLC
 7060 CAMINITO MANRESA, LA JOLLA CA 92037

LEGAL DESCRIPTION
 ALL THAT PORTION OF TRACT "A" OF MONSERATE RANCHO, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF ON FILE IN THE OFFICE OF COUNTY RECORDING TO MAP THEREOF ON FILE IN THE OFFICE OF COUNTY RECORDER OF SAN DIEGO COUNTY, IN BOOK 1, PAGE 108 OF PATENTS.

ACREAGE
 GROSS AREA - 4.37 AC

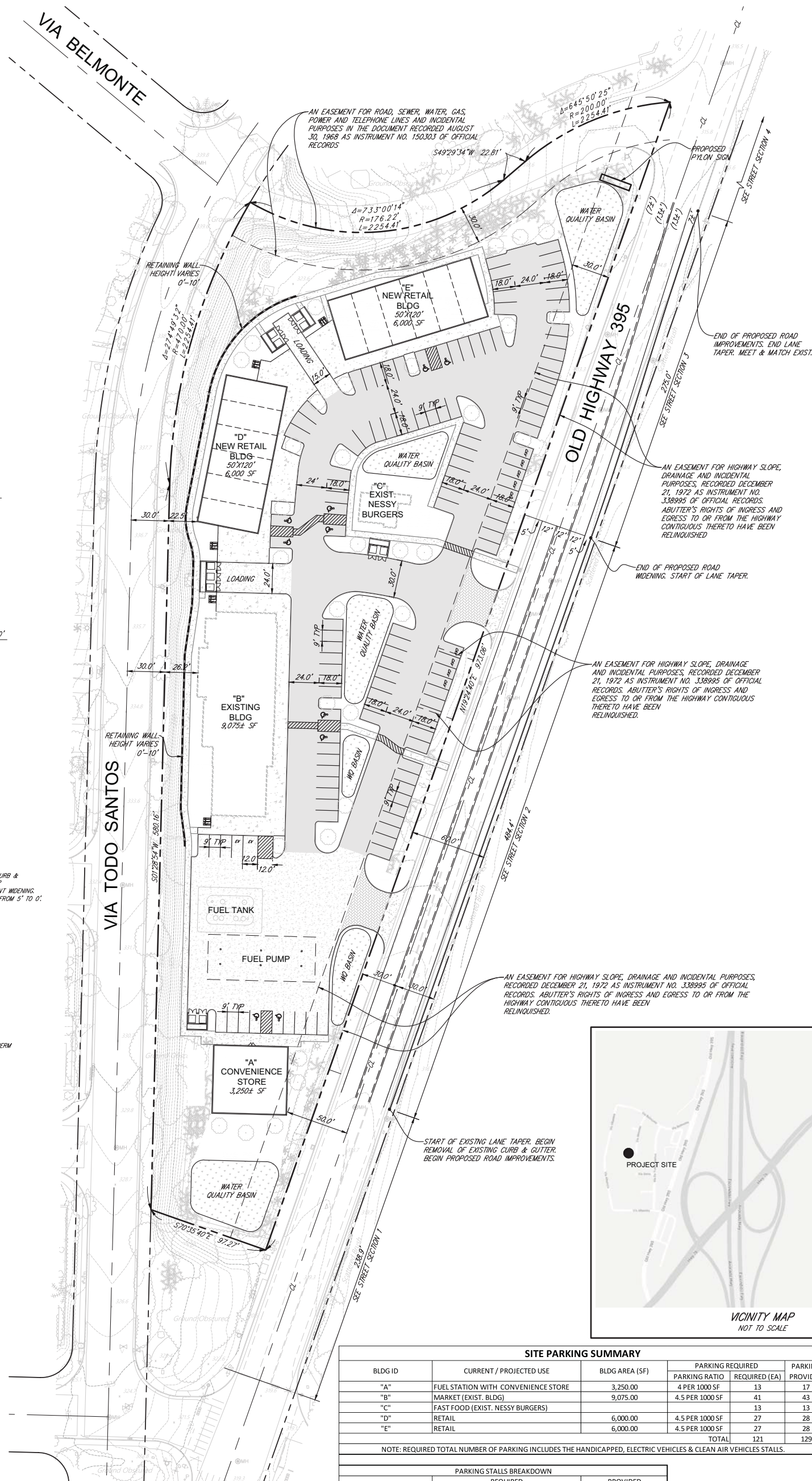
PROPERTY ADDRESS
 3233 OLD HIGHWAY 395
 FALLBROOK, CA 92028

ASSESSORS PARCEL NUMBER
 125-050-54-00

GENERAL PLAN DESIGNATION
 GENERAL COMMERCIAL

SETBACKS
 FRONT = 50' FROM CENTERLINE
 SIDE YARD EXTERIOR = 35' FROM THE CENTERLINE
 SIDE YARD INTERIOR = 0' FROM THE LOTLINE (h)
 REAR YARD = 15' FROM THE LOTLINE (m)

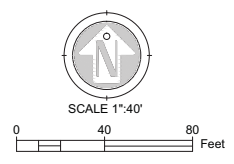
AGENCIES
 FIRE DISTRICT = NORTH COUNTY FIRE PROTECTION DISTRICT
 ELEMENTARY SCHOOL = GEN. ELEM. BONSAI UNION
 HIGH SCHOOL DISTRICT = HIGH FALLBROOK UNION
 WATER DISTRICT = RAINBOW MUNICIPAL WATER DISTRICT
 SANITATION DISTRICT = RAINBOW MUNICIPAL WATER DISTRICT



BLDG ID	CURRENT / PROJECTED USE	BLDG AREA (SF)	PARKING REQUIRED		PARKING PROVIDED
			PARKING RATIO	REQUIRED (EA)	
"A"	FUEL STATION WITH CONVENIENCE STORE	3,250.00	4 PER 1000 SF	13	17
"B"	MARKET (EXIST. BLDG)	9,075.00	4.5 PER 1000 SF	41	43
"C"	FAST FOOD (EXIST. NESSY BURGERS)			13	13
"D"	RETAIL	6,000.00	4.5 PER 1000 SF	27	28
"E"	RETAIL	6,000.00	4.5 PER 1000 SF	27	28
TOTAL				121	129

NOTE: REQUIRED TOTAL NUMBER OF PARKING INCLUDES THE HANDICAPPED, ELECTRIC VEHICLES & CLEAN AIR VEHICLES STALLS.

	REQUIRED	PROVIDED
9'X18' STALLS	105	108
HANDICAPPED STALLS	5	10
ELECTRIC VEHICLE STALLS	2	2
CLEAN AIR VEHICLE STALLS	9	9
TOTAL	121	129



OLD HIGHWAY 395 RETAIL CENTER SITE CONCEPT
 DATE JULY 11, 2019

FIGURE 2 - PROPOSED PROJECT SITE PLAN

K:\19\19025\Engineering\Concept\20.03.00_concept\19025 SITE CONCEPT_01_EXHIBIT.dwg 3/6/2020 2:31 PM ORIGINAL PLOT SIZE: -----

Local Mobility Analysis

The project is estimated to generate 2,918 total daily trips with pass-by trip reduction of 1,608 daily trips the project will 1,310 daily trips to the surrounding roadways and intersections and Local Mobility Analysis of existing and existing project traffic volumes. A copy of the Local Mobility Analysis Report is presented in Appendix A.

The following list provides a summary of the Key LMA findings for the Project:

- The Project consists of constructing two 6,000 sf retail buildings and 12 pump gas station with a 3,250 sf convenience store.
- The Project is forecasted to generate a total of 2,918 daily trips with 162 trips (85 inbound, 77 outbound) during the AM peak hour and 214 (109 inbound, 105 outbound) in the PM peak hour.
- After applying the pass-by trip credits, the project is forecasted to generate a net total of 1,310 daily trips with 63 trips (33 inbound, 33 outbound) during the AM peak hour and 96 trips (48 inbound, 48 outbound) during the PM peak hour.
- All intersections in the study area, including the Project driveways, are expected to operate at an acceptable LOS D or better during the peak hours except for the Old Highway 395 & Pala Road intersection, which would operate at LOS E during the AM peak hour.
- The increase in delay at the Old Highway 395 & Pala Road intersection does not satisfy the improvements are required at this location.
- The proposed Project will not exceed the improvement threshold criteria at the key intersections in the study area under all scenarios evaluated in this study. As a result, it is recommended that no intersection improvements are required or recommended of the proposed Project.

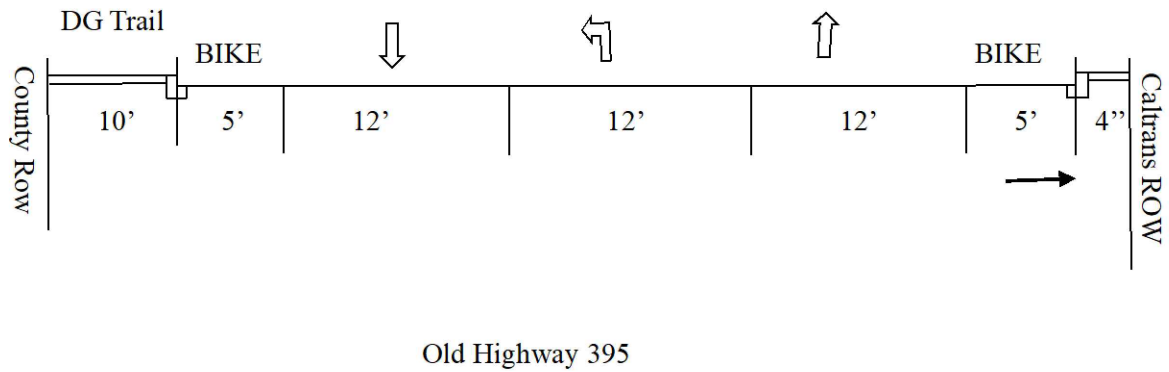
The projects Old Highway 395 frontage improvement requirements were analyzed in the 2050 Analysis and identified the project will need to reconstruct and widen the projects Old Highway 395 frontage. In addition a design exception for the spacing of the two (2) project driveways to be less than the county's 300 foot spacing requirements is required.

Year 2050 Analysis

In addition to the LMA analysis the project analyzed of the Existing plus Project traffic volumes and the Year 2050 future volumes to confirm the recommended improvements to Old Highway 395 adjacent to the project site. A copy of the Year 2050 analysis is presented in Appendix B.

The Existing plus Project and the 2050 plus project traffic volumes were analyzed and concluded that the future traffic volumes on Old Highway 395 between Via Altamira and Via Belmonte (Private Road) daily traffic forecasts of 8,000 daily vehicles will increase to 8,377 daily vehicles with the addition of project traffic and will continue to operate at LOS D. The recommended Geometrics are presented on Figure 3.

To improve the overall operating condition of Old Highway 395 with the addition of project traffic, it is recommended that the road be widened to maintain the existing bike lanes, provide one (1) lane in each direction and a center turn lane to accommodate left turns into the project site. The recommended improvements include the installation of no parking along both sides of the roadway to maintain the existing bike lanes along Old highway 395. The recommended minimum geometrics is: shown on Figure 3.



Darnell & ASSOCIATES

191201 -AC.dwg 10-30-2021 JAM

FIGURE 3
RECOMMENDED GEOMETRICS
OLD HIGHWAY 395 VIA ALTIMIRA TO VIA BELMONTE (PRIVATE ROAD)

Mr. Rafid Hamika

March 4, 2022

Page 6

The Scoping Agreement for Transportation Studies is presented in attachment A. the Local Mobility Analysis is presented in Attachment B and the projects Existing Plus Project and Year 2050 Analysis for the projects Old Highway 395 frontage is presented in attachment C.

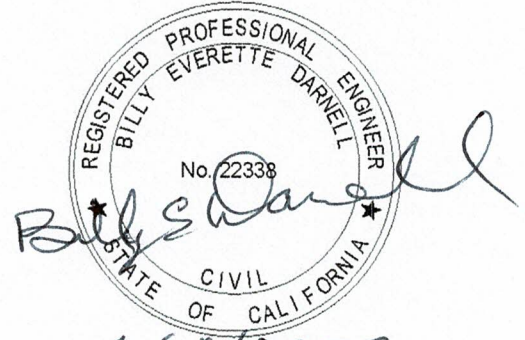
Please submit this report and Attachments to the County of San Diego for review an approval. Please call if you have any questions or need additional information.

Sincerely,

DARNELL & ASSOCIATES



Billy E. Darnell, P.E.
Firm Principal
RCE 22338



Date Signed: 3/4/2022

BED/jam

191201-Local Mobility Analysis and Vehicle Miles Report 3.3.21.docx

Attachments:

Attachments A- Scoping Agreement for Transportation Studies

Attachments B: Old Highway 395 Retail Center
Local Mobility Analysis
Vehicle Miles Traveled VMT

Attachments C: Year 2050 Analysis

ATTACHMENT A

- **Scoping Agreement for Transportation Studies**



Scoping Agreement for Transportation Studies

General Project Information and Description

Project Information

Project Name: Old Highway 395 Retail Center
Project PDS Number: PDS2020-STP-20-021, PDS-ER-02-003
Project Location: 3233 Old Highway 395, Fallbrook, CA. 92028

Project Description

Land Uses and Intensities: General Commercial, 2-6,000 sf retail and 4,980 sf convenience store with 12 fueling stations
Gross and Developable Acreage: 4.37 AC (gross and developable)
Number of Vehicle Parking Spaces: 134 (113 standard, 10 ADA, 2 electric vehicle, 9 clean air)
Bicycle Storage Capacity: n/a
Motorcycle Spaces: n/a

Consultant

Name of Firm: Darnell & Associates
Project Manager: Bill E. Darnell
Address: 4411 Mercury Street, #207A, San Diego CA. 92111
Telephone: 619-233-9373

Trip Generation

Source: ITE Trip Generation, 10th Edition
Total Daily Trips: 2,918
Internal Capture Rate: n/a
Alternative Modes: n/a
Pass-by Trips: 1,608
Diverted Trips: n/a
Trip Credit: n/a
Net Daily Trips: 1,310 (see Table 1)

General Plan Consistency

Is this project consistent with the General Plan? [X] Yes [] No

Site Plan

Attach 11x17 copies of the project location/vicinity map and site plan containing the following:

- Driveway locations and access type
• Pedestrian access, bicycle access, and on-site pedestrian circulation
• Location and distance to closest existing transit stop (measure as walking distance to project entrance or middle of parcel)
• Location of any planned trails identified in the Community Trails Master Plan (CTMP) within 1/4 mile of the project location

CEQA Transportation Analysis Screening

Project Type Screening

		Screene Out	Not Screene Out
		Yes	No
1)	Select the Land Uses that apply to your project		
2)	Answer the questions for each Land Use that applies to your project (if "Yes" in any land use category below then that land use (or a portion of the land use) is screened from CEQA Transportation Analysis)		
<input type="checkbox"/>	1. Small Projects: a. Does the project result in 110 daily trips or less?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	2. Small Service/Retail Project: a. Is the project less than 50,000 square feet?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Mixed-Use Project: a. Is the project location screened out based on the SANDAG screening map for VMT/service population?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	4. Locally Serving Retail/Public Facility/Recreational a. Is the project locally serving: Retail OR Public Facility OR Recreational?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5. Redevelopment Project: a. Does the project result in a net decrease in total Project VMT than the existing use? b. If the project is to redevelop an affordable housing site, are all proposed units affordable housing units? Mark "No" for projects that replace affordable housing with market rate units	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

Project Location Screening (if not screened based on project type) – Part 1

Is this project located within a grey area (area with little to no existing land use) on the applicable County screening maps for the project land use type? Yes No

If "yes", the project cannot be screened based on location. If "No", proceed to Part 2.

Project Location Screening (if not screened based on project type) – Part 2

		Screene Out	Not Screene Out
		Yes	No
1)	Select the Land Uses that apply to your project		
2)	Answer the questions for each Land Use that applies to your project (if "Yes" in any land use category below then that land use (or a portion of the land use) is screened from CEQA Transportation Analysis)		
<input type="checkbox"/>	1. Residential a. Is the project location screened out using the County screening maps for VMT/resident?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2. Employment a. Is the project location screened out using the County screening maps for VMT/employee or VMT/service population?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	3. Retail/Public Facility/Recreational a. Is the project location screened out using the County screening maps for VMT/service population?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Local Mobility Analysis

Type of Local Mobility Analysis (LMA)

- | | |
|---|--|
| <input type="checkbox"/> Site Access Study | 249 daily trips or less |
| <input type="checkbox"/> Focused LMA | 250 to 499 daily trips and consistent with the General Plan |
| <input checked="" type="checkbox"/> Full LMA | 500 or greater daily trips and consistent with the General Plan, or
250 or greater daily trips and inconsistent with the General Plan |

Trip Distribution

- | | |
|--|---|
| <input type="checkbox"/> Select Zone (Model Series _____) | Projects that generate greater than 1,000 daily trips |
| <input checked="" type="checkbox"/> Manual Estimation | Site Access Studies, Focused LMAs, or project's that generate less than 1,000 daily trips |

Provide exhibit detailing trip distribution and trip assignment for review.

Study Intersections (and Roadway Segments) (NOTE: Subject to change based of staff review)

- | | |
|--------------------------------------|-----|
| 1. Old Highway & Via Velmonte | 6. |
| 2. Old Highway & Via Altamire | 7. |
| 3. Old Highway 395 & Pala Rd (SR-76) | 8. |
| 4. | 9. |
| 5. | 10. |

Attach a separate page if the number of study locations exceeds 10.

Other Jurisdictions

Is this project located within one mile of another Local Jurisdiction? **Yes** **No**

If so, name of Jurisdiction: Caltrans

Specific Issues to be addressed within the Study (in addition to requirements described in the Guidelines – to be filled out by County Staff)

- 1.
- 2.
- 3.
- 4.
- 5.

Recommended by:

Bill E Daniel

Consultant's Representative

3/8/2021

Date

Scoping Agreement Submitted on

1/28/2021

Date

Scoping Agreement Re-submitted on

3/8/2021

Date

Approved Scoping Agreement:

County of San Diego
Transportation Specialist

Date

ATTACHMENT B

**Old Highway 395 Retail
Center**

➤ Local Mobility Analysis

➤ **Local Mobility Analysis**

Old Highway 395 Retail Center

Local Mobility Analysis
PDS2020-STP-20-021

Prepared By:

- ***Bill E. Darnell***
Darnell & Associates
4411 Mercury Street, #207A
San Diego, CA. 92111

- ***Marc Mizuta***
Mizuta Traffic Consulting
5694 Mission Center Road, #602-121
San Diego, CA. 92108

March 8, 2021

I INTRODUCTION

This Local Mobility Analysis (LMA) evaluates the traffic operations and safety for the road network associated with the proposed development (herein referred to as “the Project”) located on the west side of Old Highway 395 between Via Belmonte and Via Altamira within the Fallbrook Community Planning Area within the County of San Diego. The site is currently zoned as General Commercial. Figure I-1 illustrates the project vicinity map.

Some of the other elements that the LMA will address include the following:

- Ensure that the local transportation system is adequate to serve the project and that improvements identified in the General Plan are constructed when needed and consistent with the County’s Public Road Standards.
- Address issues related to operations and safety for all transportation modes.
- Ensure consideration of the County’s Active Transportation Plan for bicycle and pedestrian facilities.
- Identify the necessary transportation entitlement conditions for land development projects.
- Outline the County’s screening criteria, study area, and methodologies to assess the potential need for off-site transportation operation and safety improvements to the project study area roadway network.
- Establish measures of effectiveness to maintain transportation LOS consistent with the County’s General Plan Mobility Element.
- Facilitate on-site project access and roadway frontage design infrastructure improvements to serve the project and the surrounding community.

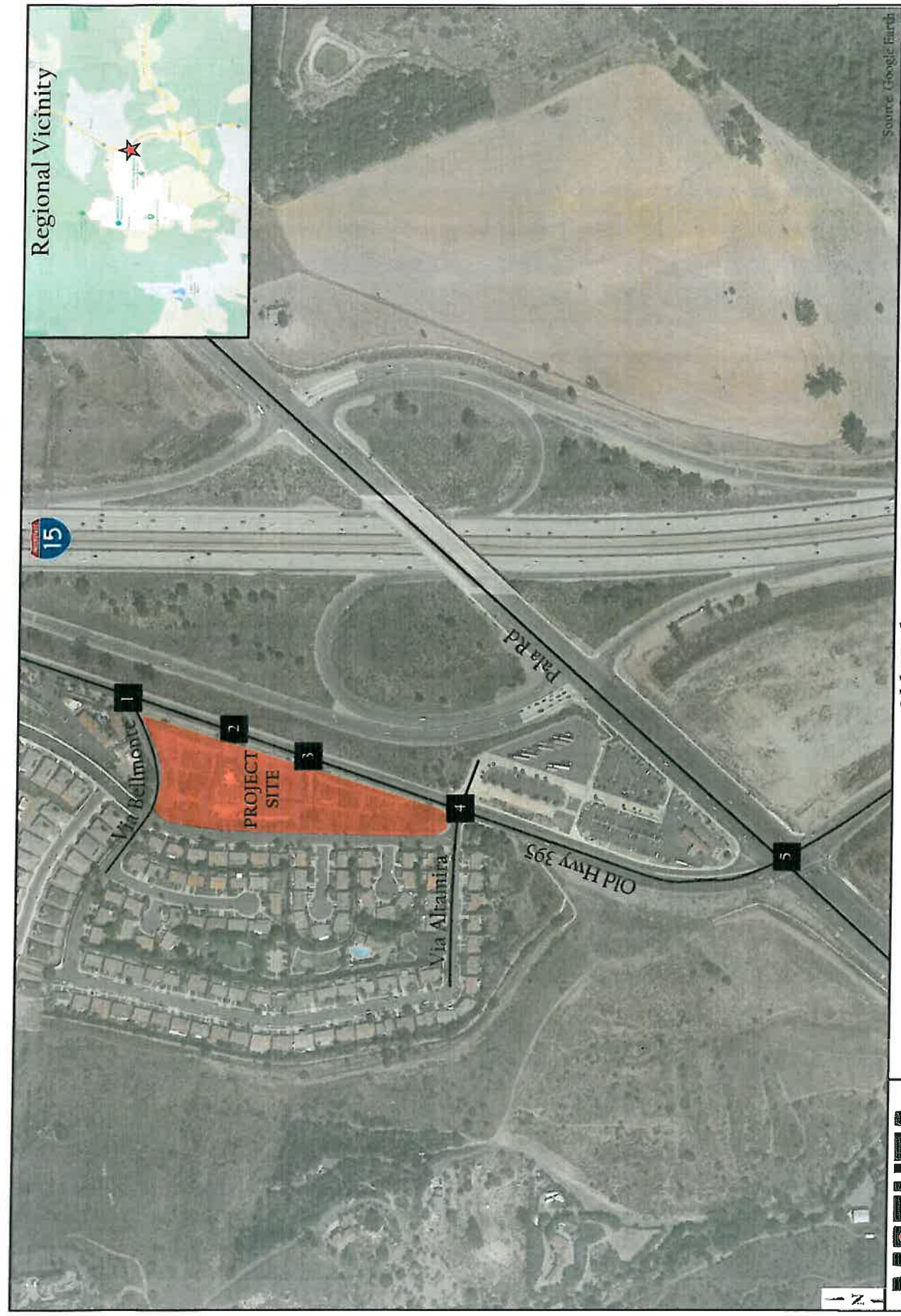
I.1 Project Description

The existing site is located at 3233 Old Highway 395 (APN #125-050-54-00). Currently, there is a 9,075 square foot (sf) grocery store operating as Pala Mesa Market and a 700 sf fast-food restaurant without a drive-thru operating as Nussy Burgers on site. The Project proposes to construct two 6,000 sf retail buildings and 12-pump gas station with a 4,980 sf convenience store. Two access points will be provided off of Old Highway 395. The Project is estimated to be constructed by 2022. The Project will provide 134 parking spaces on-site, which is six spaces in excess of the parking requirement. Figure I-2 illustrates the Project site plan.



Old Highway 395 Retail Center

Figure I-1
Project Vicinity Map



1.2 Study Area

This LMA addresses potential operational impacts that could result from the addition of the Project traffic to the local circulation system. The study area contains intersections within the immediate vicinity of the project site. The following intersections, including the Project driveways, are evaluated in this report:

1. Old Highway 395 & Via Belmonte
2. Old Highway 395 & Altamira
3. Old Highway 395 & Pala Road
4. Old Highway 395 & North Project Driveway
5. Old Highway 395 & South Project Driveway

Appendix B

Signal Timing Sheets

QuicNet® System	
System ID	193
Group	NONE
Field Master	NONE
N-S Street	Not Assigned
E-W Street	Not Assigned
Communications	
Channel	Serial:COM1:
Address	23
Area Number	1
Area Address	34
Database	
Last Changed	1/9/2020 10:04

QuicNet Timing Notes

Phase Timing - Bank 1								
	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
Min Green	4	6	0	4	4	6	0	4
Extension	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0
Max	26	50	0	26	26	50	0	50
Max 2	0	0	0	0	0	0	0	0
Cond Serve Check	0	0	0	0	0	0	0	0
Clearance Timing								
Yellow Change	4.8	5.5	0.0	3.6	4.8	5.5	0.0	3.6
Red Clear	0.5	1.0	0.0	1.0	0.5	1.0	0.0	1.0
Pedestrian Timing								
Walk	0	0	0	7	0	7	0	0
Pedestrian Change	0	0	0	13	0	15	0	0
Advance/Delay Walk	0	0	0	0	0	0	0	0
PE Min. Ped. Change	0	0	0	0	0	0	0	0
Volume-Density								
Type 3 Disconnect	0	0	0	0	0	0	0	0
Add per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Added Initial	0	0	0	0	0	0	0	0
Min Gap	2.0	1.5	0.0	2.0	2.0	1.5	0.0	2.0
Max Gap	2.0	2.1	0.0	2.0	2.0	2.1	0.0	2.0
Reduce Every	0.0	7.8	0.0	0.0	0.0	7.8	0.0	0.0
Alternate Timing								
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped. Change	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phase Timing - Exclusive Pedestrian	
Exclusive Ped Assignment	_____
Exclusive Walk	0
Exclusive Pedestrian Change	0
Red Clear	0.0
Walk Output	0
Don't Walk Output	0

Phase Functions - Page 1	
Red Lock	_____
Yellow Lock	_____
Simultaneous Gap	_____
Rest In Walk	_____
Advance Walk	_____
Flashing Walk	_____
Max Extension	_____
Red Rest	_____
Dual Entry	4_8
Sequential Timing	_____
Inhibit Ped Reserve	_____
Delay Walk	_____
Guaranteed Passage	_____
Conditional Service	_____

Phase Functions - Page 2	
Minimum Recall	2_6
Ped Recall	_____
Maximum Recall	_____
Green Flash	_____
Overlap Green Flash	_____
Flashing Yellow Arrow for PPLT	_____
Max2	_____
Soft Recall	_____
External Recall	_____
Manual Control Calls	_____
Fast Green Flash	_____
Fast Overlap Green Flash	_____
Semi-Actuated	_____

Phase Timing - Bank 2

	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
Min Green	0	0	0	0	0	0	0	0
Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0	0	0	0	0	0	0	0
Max 2	0	0	0	0	0	0	0	0
Cond Serve Check	0	0	0	0	0	0	0	0
Clearance Timing								
Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Timing								
Walk	0	0	0	0	0	0	0	0
Pedestrian Change	0	0	0	0	0	0	0	0
Advance/Delay Walk	0	0	0	0	0	0	0	0
PE Min. Ped. Change	0	0	0	0	0	0	0	0
Volume-Density								
Type 3 Disconnect	0	0	0	0	0	0	0	0
Add per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Added Initial	0	0	0	0	0	0	0	0
Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alternate Timing								
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped. Change	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phase Timing - Bank 3

	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
Min Green	0	0	0	0	0	0	0	0
Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0	0	0	0	0	0	0	0
Max 2	0	0	0	0	0	0	0	0
Cond Serve Check	0	0	0	0	0	0	0	0
Clearance Timing								
Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Timing								
Walk	0	0	0	0	0	0	0	0
Pedestrian Change	0	0	0	0	0	0	0	0
Advance/Delay Walk	0	0	0	0	0	0	0	0
PE Min. Ped. Change	0	0	0	0	0	0	0	0
Volume-Density								
Type 3 Disconnect	0	0	0	0	0	0	0	0
Add per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Added Initial	0	0	0	0	0	0	0	0
Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alternate Timing								
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped. Change	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Preemption - General	
Min. Green Before Preempt Forceoff	0
Max. EV Preempt Duration	2
Min. Time Between Same EV Preempt	0
Disable Low Priority Preempt	
Leave Flash to Service Preempt	

Preemption - Relative Priority	
Special Event 1	1
Special Event 2	1
Special Event 3	0
Special Event 4	0
Special Event 5	0
Special Event 6	0
Emergency Vehicle A	1
Emergency Vehicle B	1
Emergency Vehicle C	1
Emergency Vehicle D	1

Preemption - Railroad 1	
Delay	0
Clear Time	10
Clear Phases	2 6

Preemption - Railroad 2	
Delay	0
Clear Time	0
Clear Phases	
Limited Service Phases	

Preemption - Emergency Vehicle			
	Delay	Clear	Clearance Phases
EV A	0	5	2 5
EV B	0	5	4
EV C	0	5	1 6
EV D	0	5	8

Preemption - Railroad 3	
Enabled	N
Advance Ped. Max. Time	0
Track Clear Min. Time	0
Track Clear Max. Time	0
Track Clear Phases	
Limited Service Max. Time	0
Limited Service Phases	
Truncate Green	N
Truncate Walk	N
I/O	
	Input
	Output
Advance Ped.	0 0
Advance Preempt	0 0
Supervisor	0 0
Crossing Active	0 0
Gate Down	0 0
Fault	0 0
Watchdog Echo	0 0

Special Event Sequence 1										
Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omnit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence 2										
Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omnit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence 3										
Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence 4										
Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence 5

Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omnit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence 6

Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omnit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Coordination - General	
Transition Type	0.3
0 = Shortway	
1 = Dwell	
2 = Shorten	
Tenths Digit: # Cycles to get in step (1-4)	
Coordination Extra	
1 = Programmed Walk Time for Sync Phases	
2 = Always Terminate Sync Phase Peds	
3 = Floating Forceoffs	
4 = Reserve for Ped Calls	
5 = Start of Green Offset Reference	
8 = Maintain Coord. During Spec. Event Preempt	
QuickTrac Max Cycle Length	200
QuickTrac Max Cycle Length Change	15

Coordination - Phase Minimums							
Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
8	25	0	34	8	25	0	35

	Coordination - Cycle, Offsets, & Forceoffs								
	Plan 1	Plan 2	Plan 3	Plan 4	Plan 5	Plan 6	Plan 7	Plan 8	Plan 9
Cycle	0	0	0	0	0	0	0	0	0
Offset 1	0	0	0	0	0	0	0	0	0
Offset 2	0	0	0	0	0	0	0	0	0
Offset 3	0	0	0	0	0	0	0	0	0
Zone Offset	0	0	0	0	0	0	0	0	0
Ring Offset	0	0	0	0	0	0	0	0	0
Hold Release	0	0	0	0	0	0	0	0	0
Ped. Adjust	0	0	0	0	0	0	0	0	0
Forceoff Phase 1	0	0	0	0	0	0	0	0	0
Forceoff Phase 2	0	0	0	0	0	0	0	0	0
Forceoff Phase 3	0	0	0	0	0	0	0	0	0
Forceoff Phase 4	0	0	0	0	0	0	0	0	0
Forceoff Phase 5	0	0	0	0	0	0	0	0	0
Forceoff Phase 6	0	0	0	0	0	0	0	0	0
Forceoff Phase 7	0	0	0	0	0	0	0	0	0
Forceoff Phase 8	0	0	0	0	0	0	0	0	0
Adaptive Operation	N	N	N	N	N	N	N	N	N

	Coordination - Permissives & Phase Sequences								
	Plan 1	Plan 2	Plan 3	Plan 4	Plan 5	Plan 6	Plan 7	Plan 8	Plan 9
Perm 1 - Begin	0	0	0	0	0	0	0	0	0
Perm 1 - End	0	0	0	0	0	0	0	0	0
Perm 1 - Veh Phases	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678
Perm 1 - Ped Phases	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678
Perm 2 - Begin	0	0	0	0	0	0	0	0	0
Perm 2 - End	0	0	0	0	0	0	0	0	0
Perm 2 - Veh Phases									
Perm 2 - Ped Phases									
Perm 3 - Begin	0	0	0	0	0	0	0	0	0
Perm 3 - End	0	0	0	0	0	0	0	0	0
Perm 3 - Veh Phases									
Perm 3 - Ped Phases									
Max Inhibit Phases	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678
Max Recall Phases									
Reservice Time	0	0	0	0	0	0	0	0	0
Reservice Phases									
Sync Phases									
Lag Phases									
Pre-Timed Phases									

Overlaps								
	Overlap 1	Overlap 2	Overlap 3	Overlap 4	Overlap 5	Overlap 6	Overlap 7	Overlap 8
Load Switch Number	0	0	0	0	0	0	0	0
Vehicle Set 1								
Vehicle Set 2								
Vehicle Set 3								
Negative Vehicle								
Negative Ped								
Green Omit								
Green Clear Omit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Clearance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

AND Gates						
	AND 1	AND 2	AND 3	AND 4	AND 5	AND 6
Input A	0	0	0	0	0	0
Input B	0	0	0	0	0	0
Output	0	0	0	0	0	0

NAND Gates				
	NAND 1	NAND 2	NAND 3	NAND 4
Input A	0	0	0	0
Input B	0	0	0	0
Output	0	0	0	0

NOT Gates				
	NOT 1	NOT 2	NOT 3	NOT 4
Input	0	0	0	0
Output	0	0	0	0

Delay Timers						
	DELAY 1	DELAY 2	DELAY 3	DELAY 4	DELAY 5	DELAY 6
Input	0	0	0	0	0	0
Time	0	0	0	0	0	0
Output	0	0	0	0	0	0

Extension Timers						
	ET 1	ET 2	ET 3	ET 4	ET 5	ET 6
Input	0	0	0	0	0	0
Time	0.0	0.0	0.0	0.0	0.0	0.0
Output	0	0	0	0	0	0

OR Gates										
	OR 1	OR 2	OR 3	OR 4	OR 5	OR 6	OR 7	OR 8	OR 9	OR 10
Input A	0	0	0	0	0	0	0	0	0	0
Input B	0	0	0	0	0	0	0	0	0	0
Input C										
Input D										
Output	0	0	0	0	0	0	0	0	0	0

Latches								
	LATCH 1	LATCH 2	LATCH 3	LATCH 4	LATCH 5	LATCH 6	LATCH 7	LATCH 8
Set	0	0	0	0	0	0	0	0
Reset	0	0	0	0	0	0	0	0
Output	0	0	0	0	0	0	0	0
NOT Output	0	0	0	0	0	0	0	0

One Shot Timers						
	OS 1	OS 2	OS 3	OS 4	OS 5	OS 6
Input	0	0	0	0	0	0
Time	0.0	0.0	0.0	0.0	0.0	0.0
Output	0	0	0	0	0	0

Detectors						
No.	Pin	Delay	Carry Over	Phases	Attributes	Assignments
1	39	0.0	0.0	2	45_7_	123_8
2	40	0.0	0.0	6	45_7_	123_8
3	41	0.0	0.0	4	45_7_	123_8
4	42	0.0	0.0	8	45_7_	123_8
5	43	0.0	0.0	2	45_7_	123_8
6	44	0.0	0.0	6	45_7_	123_8
7	45	0.0	0.0	4	45_7_	123_8
8	46	0.0	0.0	8	45_7_	123_8
9	47	0.0	0.0	2	45_7_	123_8
10	48	0.0	0.0	6	45_7_	123_8
11	49	0.0	0.0	4	45_7_	123_8
12	50	0.0	0.0	8	45_7_	123_8
13	55	0.0	0.0	5	45_7_	123_8
14	56	0.0	0.0	1	45_7_	123_8
15	57	0.0	0.0	7	45_7_	123_8
16	58	0.0	0.0	3	45_7_	123_8
17	59	0.0	0.0	5	45_7_	123_8
18	60	0.0	0.0	1	45_7_	123_8
19	61	0.0	0.0	7	45_7_	123_8
20	62	0.0	0.0	3	45_7_	123_8
21	63	0.0	0.0	2	45_7_	123_8
22	64	0.0	0.0	6	45_7_	123_8
23	65	0.0	0.0	4	45_7_	123_8
24	66	0.0	0.0	8	45_7_	123_8
25	67	0.0	0.0	2	45_7_	123_8
26	68	0.0	0.0	6	45_7_	123_8
27	69	0.0	0.0	4	45_7_	123_8
28	70	0.0	0.0	8	45_7_	123_8
29	76	0.0	0.0	2	45_7_	123_8
30	77	0.0	0.0	6	45_7_	123_8
31	78	0.0	0.0	4	45_7_	123_8
32	79	0.0	0.0	8	45_7_	123_8

Detector Attributes	
1	Full Time Delay
2	Pedestrian
3	(unused)
4	Count
5	Extension
6	Type 3
7	Calling
8	Alternate

Detector Assignments	
1	Detector Set 1
2	Detector Set 2
3	Detector Set 3
4	(unused)
5	(unused)
6	Min. Recall on Failure
7	Max. Recall on Failure
8	Monitor for Failure

Inputs - General	
Flash Sense	81
External Permit 1	0
External Permit 2	0
External Permit 3	0
Exclusive Ped Omit	0
Max. 2	0
External Lag	0
Max. Recall	0
Stop Time	82
Manual Control Enable	0
Manual Control Advance	0
Min. Recall	0
Pedestrian Forceoff	0

Inputs - Preemption	
Railroad 1	51
Railroad 2	52
Gate Down	0
Special Event 1	0
Special Event 2	0
Special Event 3	0
Special Event 4	0
Special Event 5	0
Special Event 6	0
Emergency Vehicle A	71
Emergency Vehicle B	72
Emergency Vehicle C	73
Emergency Vehicle D	74

Inputs - FYA Inhibit	
Phase 1	0
Phase 2	0
Phase 3	0
Phase 4	0
Phase 5	0
Phase 6	0
Phase 7	0
Phase 8	0

Inputs - Plan	
Plan 1	0
Plan 2	0
Plan 3	0
Plan 4	0
Plan 5	0
Plan 6	0
Plan 7	0
Plan 8	0
Plan 9	0
Free	0
Flash	0

Inputs - Bank & Set	
Phase Bank 2	0
Phase Bank 3	0
Detector Set 2	0
Detector Set 3	0
Overlap Set 2	0
Overlap Set 3	0

Inputs - Alarms	
Alarm 1	0
Alarm 2	0
Alarm 3	0
Alarm 4	0
Door Ajar	0
UPS Battery Low	0
UPS On Backup Power	0
Cabinet Temperature	0

Inputs - NEMA Functions	
Call to Non-Actuated	0
CNA Phases	0
Forceoff Ring A	0
Forceoff Ring B	0
Hold Phases	0
Max. Inhibit	0

Outputs - General	
Advance Warning Sign 1	0
Advance Warning Sign 2	0
Detector Failure	0
Flasher 1	0
Flasher 2	0
Fast Flasher	0
On Line	0
Exclusive Pedestrian Walk	0
Exclusive Pedestrian Don't Walk	0

Outputs - Plan	
Plan 1	0
Plan 2	0
Plan 3	0
Plan 4	0
Plan 5	0
Plan 6	0
Plan 7	0
Plan 8	0
Plan 9	0
Free	0
Flash	0

Outputs - Pedestrian Loadswitch Assignments	
Loadswitch 2P Phases	4
Loadswitch 4P Phases	6
Loadswitch 6P Phases	
Loadswitch 8P Phases	

Outputs - Preemption		
	Steady	Flashing
Railroad 1	0	0
Railroad 2	0	0
Special Event 1	0	0
Special Event 2	0	0
Special Event 3	0	0
Special Event 4	0	0
Special Event 5	0	0
Special Event 6	0	0
EV A	0	0
EV B	0	0
EV C	0	0
EV D	0	0
Any Preempt	0	0
Preempt Failure	0	0

Outputs - Phase Redirection								
	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
Red	0	0	0	0	0	0	0	0
Yellow	0	0	0	0	0	0	0	0
Green	0	0	0	0	0	0	0	0
Walk	0	0	0	0	0	0	0	0
Don't Walk	0	0	0	0	0	0	0	0

Outputs - Overlap Redirection								
	Overlap 1	Overlap 2	Overlap 3	Overlap 4	Overlap 5	Overlap 6	Overlap 7	Overlap 8
Red	0	0	0	0	0	0	0	0
Yellow	0	0	0	0	0	0	0	0
Green	0	0	0	0	0	0	0	0

Outputs - Time of Day							
TOD Out 1	TOD Out 2	TOD Out 3	TOD Out 4	TOD Out 5	TOD Out 6	TOD Out 7	TOD Out 8
0	0	0	0	0	0	0	0

Outputs - Special Event							
SE Out 1	SE Out 2	SE Out 3	SE Out 4	SE Out 5	SE Out 6	SE Out 7	SE Out 8
0	0	0	0	0	0	0	0

Outputs - Special Function							
SF Out 1	SF Out 2	SF Out 3	SF Out 4	SF Out 5	SF Out 6	SF Out 7	SF Out 8
0	0	0	0	0	0	0	0

Outputs - Phase Status							
Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
Check	0	0	0	0	0	0	0
On	0	0	0	0	0	0	0

Outputs - Flashing Yellow Arrow							
Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
0	0	0	0	0	0	0	0

Time Base Coordination Events						
No.	Days of Week	Seasons	Hour	Minute	Plan	Offset
0		12345678	0	0	0	0
1		12345678	0	0	0	0
2		12345678	0	0	0	0
3		12345678	0	0	0	0
4		12345678	0	0	0	0
5		12345678	0	0	0	0
6		12345678	0	0	0	0
7		12345678	0	0	0	0
8		12345678	0	0	0	0
9		12345678	0	0	0	0
10		12345678	0	0	0	0
11		12345678	0	0	0	0
12		12345678	0	0	0	0
13		12345678	0	0	0	0
14		12345678	0	0	0	0
15		12345678	0	0	0	0
16		12345678	0	0	0	0
17		12345678	0	0	0	0
18		12345678	0	0	0	0
19		12345678	0	0	0	0
20		12345678	0	0	0	0
21		12345678	0	0	0	0
22		12345678	0	0	0	0
23		12345678	0	0	0	0
24		12345678	0	0	0	0
25		12345678	0	0	0	0
26		12345678	0	0	0	0
27		12345678	0	0	0	0
28		12345678	0	0	0	0
29		12345678	0	0	0	0
30		12345678	0	0	0	0
31		12345678	0	0	0	0

Time of Day Function Events							
No.	Days of Week	Seasons	Hour	Minute	Function	Phases or Fn. 14 Bits	
0		12345678	0	0	0		
1		12345678	0	0	0		
2		12345678	0	0	0		
3		12345678	0	0	0		
4		12345678	0	0	0		
5		12345678	0	0	0		
6		12345678	0	0	0		
7		12345678	0	0	0		
8		12345678	0	0	0		
9		12345678	0	0	0		
10		12345678	0	0	0		
11		12345678	0	0	0		
12		12345678	0	0	0		
13		12345678	0	0	0		
14		12345678	0	0	0		
15		12345678	0	0	0		
Function 1 = Red Lock							
Function 2 = Yellow Lock							
Function 3 = Minimum Recall							
Function 4 = Pedestrian Recall							
Function 6 = Rest in Walk							
Function 7 = Red Rest							
Function 8 = Double Entry							
Function 9 = Maximum Recall							
Function 10 = Soft Recall							
Function 11 = Max 2							
Function 12 = Conditional Service							
Function 13 = Lag Free							
Function 14 = (see Function 14 Bits)							
Function 15 = Time of Day Outputs							
Function 14 Bits							
Bit 1 = Local Override							
Bit 2 = Skip Overlap Green Clearance							
Bit 4 = Disable Detector OFF Monitoring							
Bit 5 = Disable Bus Priority							
Bit 6 = Inhibit FYA							
Bit 7 = Detector Count Recording							
Bit 8 = Split Monitor Recording							

Holiday Definitions				
No.	Holiday Types	Day	Month	Year
0		0	0	0
1		0	0	0
2		0	0	0
3		0	0	0
4		0	0	0
5		0	0	0
6		0	0	0
7		0	0	0
8		0	0	0
9		0	0	0
10		0	0	0
11		0	0	0
12		0	0	0
13		0	0	0
14		0	0	0
15		0	0	0
16		0	0	0
17		0	0	0
18		0	0	0
19		0	0	0
20		0	0	0
21		0	0	0
22		0	0	0
23		0	0	0
24		0	0	0
25		0	0	0
26		0	0	0
27		0	0	0
28		0	0	0
29		0	0	0
30		0	0	0
31		0	0	0

Holiday Time Base Coordination Events					
No.	Holiday Types	Hour	Minute	Plan	Offset
0		0	0	0	0
1		0	0	0	0
2		0	0	0	0
3		0	0	0	0
4		0	0	0	0
5		0	0	0	0
6		0	0	0	0
7		0	0	0	0
8		0	0	0	0
9		0	0	0	0
10		0	0	0	0
11		0	0	0	0
12		0	0	0	0
13		0	0	0	0
14		0	0	0	0
15		0	0	0	0
16		0	0	0	0
17		0	0	0	0
18		0	0	0	0
19		0	0	0	0
20		0	0	0	0
21		0	0	0	0
22		0	0	0	0
23		0	0	0	0
24		0	0	0	0
25		0	0	0	0
26		0	0	0	0
27		0	0	0	0
28		0	0	0	0
29		0	0	0	0
30		0	0	0	0
31		0	0	0	0

Holiday Time of Day Function Events					
No.	Holiday Types	Hour	Minute	Function	Phases or Fn. 14 Bits
0		0	0	0	
1		0	0	0	
2		0	0	0	
3		0	0	0	
4		0	0	0	
5		0	0	0	
6		0	0	0	
7		0	0	0	
8		0	0	0	
9		0	0	0	
10		0	0	0	
11		0	0	0	
12		0	0	0	
13		0	0	0	
14		0	0	0	
15		0	0	0	

Season Definitions				
No.	Start Month	Start Day	End Month	End Day
1	1	1	12	31
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0

Startup	
Flash Start	0
All Red Start	0.0
Yellow Start Phases	4_8
First Green Phases	2_6
Startup Vehicle Calls	12_456_8
Startup Ped Calls	4_6

Configuration	
Exclusive Phases	
Protected/Permissive Phases	
Disable Phase Min. Yellow	
Free Lag Phases	2_4_6_8
External Lag Phases	
Pedestrian Forceoff Phases	
Extra One	1_3_5
1 = TBC Type 1	
2 = (unused)	
3 = Adjust Clock for Daylight Saving Time	
4 = Terminate Ped. for EV Preempt	
5 = QuicComm Extended Status	
6 = International Style Pedestrian Change Interval	
7 = (unused)	
8 = Split Ring Operation	
Permitted Phases	12_456_8
Restricted Phases	
Disable Overlap Min. Yellow	
External Permit 1	
External Permit 2	
External Permit 3	
Extra Two	
1 = Adv. Warn. Signs On During Min. Init.	
2 = Siemens i2 Communications Protocol	
3 = Disable Minimum Walk Check	
4 = QuickNet System Communications	
5 = Ignore Anti-Backup During Preempt	
6 = Bridgeport Naztec TS 2 I/O Map	
7 = Allow Remote Preemption Calls	
8 = Caltrans Traf. Resp. FM Comm.	

Advance Warning Signs		
Phase Number	Sign 1	Sign 2
Time Before Yellow	0	0
	0.0	0.0

Software Flash	
Flash Entry Phases	
Flash Yellow Phases	
Flash Yellow Overlaps	
Flash Type	0
0 = All On/All Off (1-2-3-4-5-6-7-8, dark)	
1 = Main/Side (1-2-5-6, 3-4-7-8)	
2 = Odd/Even (1-3-5-7, 2-4-6-8)	
3 = Ring Pairs (1-6, 4-7, 2-5, 3-8)	

Flashing Yellow Arrow	
FYA Delay	0
FYA During Preempt	N

Front Panel	
Keyboard Beep	N
Backlight Timeout	60

Miscellaneous	
Red Revert	5.0
Log Preemption Events	N
Soft Recall Delay	0.0

Special Event Limited Service Intervals					
SE 1	SE 2	SE 3	SE 4	SE 5	SE 6
0	0	0	0	0	0

Detector Monitoring	
Max On	5
Max Off	15
Chatter	45

Daylight Saving Time	
Start Month	3
Start Week	2
End Month	11
End Week	1

Manual Operation	
Manual Plan	0
1-9 = Coordination Plans	
14 = Free	
15 = Flash	
Manual Offset	0

Bus Priority - Schedule						
Event No.	Day of Week	Hour	Minute	Headway	Direction	
1		0	0	0	A	
2		0	0	0	A	
3		0	0	0	A	
4		0	0	0	A	
5		0	0	0	A	
6		0	0	0	A	
7		0	0	0	A	
8		0	0	0	A	
9		0	0	0	A	
10		0	0	0	A	
11		0	0	0	A	
12		0	0	0	A	
13		0	0	0	A	
14		0	0	0	A	
15		0	0	0	A	
16		0	0	0	A	

Bus Priority - Timing				
	Direction A	Direction B	Direction C	Direction D
Delay	0	0	0	0
Early Green	0	0	0	0
Green Extension	0	0	0	0
Phases				
Non-Priority Phase Maximum Adjustments				
Phase 1	0	0	0	0
Phase 2	0	0	0	0
Phase 3	0	0	0	0
Phase 4	0	0	0	0
Phase 5	0	0	0	0
Phase 6	0	0	0	0
Phase 7	0	0	0	0
Phase 8	0	0	0	0

Old Highway 395 & Pala Rd

Caltrans has requested that the existing signal timing data for the Old Highway 395 & Pala Road intersection to not be duplicated or included in the traffic report.

Appendix F

Intersection LOS Worksheets

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Existing
 Timing Plan: AM PEAK

Intersection

Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↕	↕	
Traffic Vol, veh/h	0	1	2	167	563	1
Future Vol, veh/h	0	1	2	167	563	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1	2	184	619	1

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	808	620	620	0	-	0
Stage 1	620	-	-	-	-	-
Stage 2	188	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	350	488	960	-	-	-
Stage 1	536	-	-	-	-	-
Stage 2	844	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	349	488	960	-	-	-
Mov Cap-2 Maneuver	349	-	-	-	-	-
Stage 1	535	-	-	-	-	-
Stage 2	844	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.4	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	960	-	488	-	-
HCM Lane V/C Ratio	0.002	-	0.002	-	-
HCM Control Delay (s)	8.8	0	12.4	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Existing
Timing Plan: AM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	1	31	112	0	25	7	147	3	34	529	0
Future Volume (veh/h)	1	1	31	112	0	25	7	147	3	34	529	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	1	35	127	0	28	8	167	3	39	601	0
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	106	7	160	392	0	187	15	705	13	64	771	0
Arrive On Green	0.12	0.12	0.12	0.12	0.00	0.12	0.01	0.38	0.38	0.04	0.41	0.00
Sat Flow, veh/h	18	59	1360	1608	0	1585	1781	1832	33	1781	1870	0
Grp Volume(v), veh/h	37	0	0	127	0	28	8	0	170	39	601	0
Grp Sat Flow(s),veh/h/ln	1437	0	0	1608	0	1585	1781	0	1864	1781	1870	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	2.2	0.8	9.9	0.0
Cycle Q Clear(g_c), s	2.4	0.0	0.0	2.4	0.0	0.6	0.2	0.0	2.2	0.8	9.9	0.0
Prop In Lane	0.03		0.95	1.00		1.00	1.00		0.02	1.00		0.00
Lane Grp Cap(c), veh/h	273	0	0	392	0	187	15	0	718	64	771	0
V/C Ratio(X)	0.14	0.00	0.00	0.32	0.00	0.15	0.53	0.00	0.24	0.61	0.78	0.00
Avail Cap(c_a), veh/h	2110	0	0	1982	0	2023	1037	0	2281	1037	2288	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	14.2	0.0	0.0	14.9	0.0	14.1	17.6	0.0	7.4	16.9	9.0	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.2	0.0	0.1	10.0	0.0	0.1	3.4	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.8	0.0	0.2	0.1	0.0	0.6	0.3	2.7	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.2	0.0	0.0	15.1	0.0	14.2	27.6	0.0	7.5	20.3	9.7	0.0
LnGrp LOS	B	A	A	B	A	B	C	A	A	C	A	A
Approach Vol, veh/h		37			155			178			640	
Approach Delay, s/veh		14.2			14.9			8.4			10.4	
Approach LOS		B			B			A			B	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	20.2		8.8	5.6	21.2		8.8				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I1), s	2.8	4.2		4.4	2.2	11.9		4.4				
Green Ext Time (p_c), s	0.0	0.6		0.1	0.0	2.8		0.5				
Intersection Summary												
HCM 6th Ctrl Delay				10.8								
HCM 6th LOS				B								

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Existing
 Timing Plan: AM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↑↑↑	↗	↖	↑↑	↗	↖	↑	↗	↖↗	↖	
Traffic Volume (veh/h)	58	687	200	74	1123	59	201	72	39	131	204	119
Future Volume (veh/h)	58	687	200	74	1123	59	201	72	39	131	204	119
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	64	755	220	81	1234	65	221	79	43	144	224	131
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	142	2241	696	144	1565	1108	222	144	250	893	244	142
Arrive On Green	0.08	0.44	0.44	0.08	0.44	0.44	0.12	0.08	0.08	0.26	0.22	0.22
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	1107	647
Grp Volume(v), veh/h	64	755	220	81	1234	65	221	79	43	144	0	355
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1754
Q Serve(g_s), s	6.7	19.0	17.6	8.5	58.0	0.9	24.2	7.9	2.6	6.3	0.0	38.6
Cycle Q Clear(g_c), s	6.7	19.0	17.6	8.5	58.0	0.9	24.2	7.9	2.6	6.3	0.0	38.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.37
Lane Grp Cap(c), veh/h	142	2241	696	144	1565	1108	222	144	250	893	0	386
V/C Ratio(X)	0.45	0.34	0.32	0.56	0.79	0.06	1.00	0.55	0.17	0.16	0.00	0.92
Avail Cap(c_a), veh/h	195	2241	696	231	1565	1108	222	245	336	1139	0	589
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	85.7	36.0	35.6	86.3	46.8	2.6	85.3	86.7	31.7	55.9	0.0	74.4
Incr Delay (d2), s/veh	2.2	0.4	1.2	3.4	4.1	0.1	59.1	3.2	0.3	0.1	0.0	14.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	8.2	7.3	4.1	26.8	0.5	14.9	4.0	1.2	2.8	0.0	19.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	87.9	36.4	36.8	89.6	50.9	2.7	144.4	90.0	32.0	56.0	0.0	88.8
LnGrp LOS	F	D	D	F	D	A	F	F	C	E	A	F
Approach Vol, veh/h		1039			1380			343			499	
Approach Delay, s/veh		39.7			50.9			117.8			79.3	
Approach LOS		D			D			F			E	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	1.5	93.1	30.0	50.4	21.2	93.4	57.9	22.5				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (Gmax), s	25	53.5	* 24	65.5	* 21	57.5	64.3	* 26				
Max Q Clear Time (g_c+I), s	5	21.0	26.2	40.6	8.7	60.0	8.3	9.9				
Green Ext Time (p_c), s	0.1	7.0	0.0	2.3	0.1	0.0	0.5	0.4				

Intersection Summary

HCM 6th Ctrl Delay	58.7
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Existing
Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↘			↖	↖	
Traffic Vol, veh/h	3	4	7	166	560	4
Future Vol, veh/h	3	4	7	166	560	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	4	8	180	609	4

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	807	611	613	0	0
Stage 1	611	-	-	-	-
Stage 2	196	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	351	494	966	-	-
Stage 1	542	-	-	-	-
Stage 2	837	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	348	494	966	-	-
Mov Cap-2 Maneuver	348	-	-	-	-
Stage 1	537	-	-	-	-
Stage 2	837	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.8	0.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	966	-	419	-	-
HCM Lane V/C Ratio	0.008	-	0.018	-	-
HCM Control Delay (s)	8.8	0	13.8	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Existing
 Timing Plan: AM PEAK

Intersection

Int Delay, s/veh 0.4

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	6	8	13	160	564	8
Future Vol, veh/h	6	8	13	160	564	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	9	14	174	613	9

Major/Minor Minor2 Major1 Major2

Conflicting Flow All	820	618	622	0	-	0
Stage 1	618	-	-	-	-	-
Stage 2	202	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	345	489	959	-	-	-
Stage 1	538	-	-	-	-	-
Stage 2	832	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	339	489	959	-	-	-
Mov Cap-2 Maneuver	339	-	-	-	-	-
Stage 1	529	-	-	-	-	-
Stage 2	832	-	-	-	-	-

Approach EB NB SB

HCM Control Delay, s 14.1 0.7 0
 HCM LOS B

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h)	959	-	411	-	-
HCM Lane V/C Ratio	0.015	-	0.037	-	-
HCM Control Delay (s)	8.8	0	14.1	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Existing
 Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↔		↔		↔	
Traffic Vol, veh/h	1	3	6	739	203	3
Future Vol, veh/h	1	3	6	739	203	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	3	6	762	209	3

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	985	211	212	0	-	0
Stage 1	211	-	-	-	-	-
Stage 2	774	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	275	829	1358	-	-	-
Stage 1	824	-	-	-	-	-
Stage 2	455	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	273	829	1358	-	-	-
Mov Cap-2 Maneuver	273	-	-	-	-	-
Stage 1	817	-	-	-	-	-
Stage 2	455	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.6	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1358	-	549	-	-
HCM Lane V/C Ratio	0.005	-	0.008	-	-
HCM Control Delay (s)	7.7	0	11.6	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Existing
 Timing Plan: PM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	0	4	123	0	74	15	647	2	14	209	5
Future Volume (veh/h)	2	0	4	123	0	74	15	647	2	14	209	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	2	0	4	128	0	77	16	674	2	15	218	5
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	148	34	120	379	0	191	29	833	2	27	812	19
Arrive On Green	0.12	0.00	0.12	0.12	0.00	0.12	0.02	0.45	0.45	0.02	0.45	0.45
Sat Flow, veh/h	216	280	993	1621	0	1585	1781	1864	6	1781	1821	42
Grp Volume(v), veh/h	6	0	0	128	0	77	16	0	676	15	0	223
Grp Sat Flow(s),veh/h/ln	1489	0	0	1621	0	1585	1781	0	1869	1781	0	1863
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	1.8	0.4	0.0	12.3	0.3	0.0	3.0
Cycle Q Clear(g_c), s	2.7	0.0	0.0	2.7	0.0	1.8	0.4	0.0	12.3	0.3	0.0	3.0
Prop In Lane	0.33		0.67	1.00		1.00	1.00		0.00	1.00		0.02
Lane Grp Cap(c), veh/h	302	0	0	379	0	191	29	0	835	27	0	830
V/C Ratio(X)	0.02	0.00	0.00	0.34	0.00	0.40	0.55	0.00	0.81	0.55	0.00	0.27
Avail Cap(c_a), veh/h	1839	0	0	1840	0	1831	938	0	2069	938	0	2062
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.3	0.0	0.0	16.4	0.0	16.0	19.2	0.0	9.4	19.2	0.0	6.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.5	5.9	0.0	0.7	6.2	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.0	0.9	0.0	0.6	0.2	0.0	3.5	0.2	0.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.3	0.0	0.0	16.6	0.0	16.5	25.1	0.0	10.2	25.4	0.0	6.9
LnGrp LOS	B	A	A	B	A	B	C	A	B	C	A	A
Approach Vol, veh/h		6			205			692			238	
Approach Delay, s/veh		15.3			16.5			10.5			8.1	
Approach LOS		B			B			B			A	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.9	24.1		9.3	5.9	24.0		9.3				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I1), s	2.3	14.3		4.7	2.4	5.0		4.7				
Green Ext Time (p_c), s	0.0	3.2		0.0	0.0	0.9		0.6				
Intersection Summary												
HCM 6th Ctrl Delay	11.1											
HCM 6th LOS	B											

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Existing
 Timing Plan: PM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↘	↑↑↑	↗	↘	↑↑	↗	↘	↑	↗	↘↗	↗	
Traffic Volume (veh/h)	204	1032	125	26	831	306	96	161	43	146	58	86
Future Volume (veh/h)	204	1032	125	26	831	306	96	161	43	146	58	86
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	215	1086	132	27	875	322	101	169	45	154	61	91
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	195	3158	980	112	2034	1021	120	191	262	248	78	117
Arrive On Green	0.11	0.62	0.62	0.06	0.57	0.57	0.07	0.10	0.10	0.07	0.12	0.12
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	678	1011
Grp Volume(v), veh/h	215	1086	132	27	875	322	101	169	45	154	0	152
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1688
Q Serve(g_s), s	21.3	20.1	6.8	2.8	27.2	6.9	10.9	17.4	3.7	8.4	0.0	17.1
Cycle Q Clear(g_c), s	21.3	20.1	6.8	2.8	27.2	6.9	10.9	17.4	3.7	8.4	0.0	17.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.60
Lane Grp Cap(c), veh/h	195	3158	980	112	2034	1021	120	191	262	248	0	195
V/C Ratio(X)	1.10	0.34	0.13	0.24	0.43	0.32	0.84	0.89	0.17	0.62	0.00	0.78
Avail Cap(c_a), veh/h	195	3158	980	231	2034	1021	322	245	307	1139	0	472
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	86.8	18.0	15.5	86.9	23.7	4.8	89.9	86.4	44.5	87.9	0.0	83.8
Incr Delay (d2), s/veh	95.4	0.3	0.3	1.1	0.7	0.8	14.5	25.3	0.3	2.5	0.0	6.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.1	8.3	2.6	1.3	12.0	3.4	5.6	9.8	1.7	3.9	0.0	7.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	182.3	18.3	15.8	88.0	24.3	5.6	104.4	111.7	44.8	90.5	0.0	90.3
LnGrp LOS	F	B	B	F	C	A	F	F	D	F	A	F
Approach Vol, veh/h		1433			1224			315			306	
Approach Delay, s/veh		42.7			20.8			99.8			90.4	
Approach LOS		D			C			F			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	128.0	128.1	18.8	30.1	27.0	119.1	21.5	27.4				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (Gmax), s	53.5	* 35	54.5	* 21	57.5	64.3	* 26					
Max Q Clear Time (g_c+l), s	22.1	12.9	19.1	23.3	29.2	10.4	19.4					
Green Ext Time (p_c), s	0.0	10.0	0.2	1.0	0.0	8.5	0.5	0.5				

Intersection Summary

HCM 6th Ctrl Delay	44.5
HCM 6th LOS	D

Notes

- User approved pedestrian interval to be less than phase max green.
- * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Existing
 Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y		4		4	
Traffic Vol, veh/h	4	6	6	742	202	4
Future Vol, veh/h	4	6	6	742	202	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	7	7	807	220	4

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	1043	222	224	0	0
Stage 1	222	-	-	-	-
Stage 2	821	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	254	818	1345	-	-
Stage 1	815	-	-	-	-
Stage 2	432	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	252	818	1345	-	-
Mov Cap-2 Maneuver	252	-	-	-	-
Stage 1	808	-	-	-	-
Stage 2	432	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.6	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1345	-	431	-	-
HCM Lane V/C Ratio	0.005	-	0.025	-	-
HCM Control Delay (s)	7.7	0	13.6	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Existing
 Timing Plan: PM PEAK

Intersection

Int Delay, s/veh 0.9

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations						
Traffic Vol, veh/h	17	26	27	725	208	18
Future Vol, veh/h	17	26	27	725	208	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	28	29	788	226	20

Major/Minor Minor2 Major1 Major2

Conflicting Flow All	1082	236	246	0	-	0
Stage 1	236	-	-	-	-	-
Stage 2	846	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	241	803	1320	-	-	-
Stage 1	803	-	-	-	-	-
Stage 2	421	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	232	803	1320	-	-	-
Mov Cap-2 Maneuver	232	-	-	-	-	-
Stage 1	772	-	-	-	-	-
Stage 2	421	-	-	-	-	-

Approach EB NB SB

HCM Control Delay, s	15	0.3	0
HCM LOS	C		

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h)	1320	-	407	-	-
HCM Lane V/C Ratio	0.022	-	0.115	-	-
HCM Control Delay (s)	7.8	0	15	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.4	-	-

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Opening Year Baseline
 Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		T		T	
Traffic Vol, veh/h	0	1	2	170	574	1
Future Vol, veh/h	0	1	2	170	574	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1	2	187	631	1

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	823	632	632	0	-	0
Stage 1	632	-	-	-	-	-
Stage 2	191	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	343	480	951	-	-	-
Stage 1	530	-	-	-	-	-
Stage 2	841	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	342	480	951	-	-	-
Mov Cap-2 Maneuver	342	-	-	-	-	-
Stage 1	529	-	-	-	-	-
Stage 2	841	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.5	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	951	-	480	-	-
HCM Lane V/C Ratio	0.002	-	0.002	-	-
HCM Control Delay (s)	8.8	0	12.5	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Opening Year Baseline
Timing Plan: AM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	1	32	114	0	26	7	150	3	35	540	0
Future Volume (veh/h)	1	1	32	114	0	26	7	150	3	35	540	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	1	36	130	0	30	8	170	3	40	614	0
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	104	7	167	392	0	191	15	715	13	65	782	0
Arrive On Green	0.12	0.12	0.12	0.12	0.00	0.12	0.01	0.39	0.39	0.04	0.42	0.00
Sat Flow, veh/h	18	59	1387	1608	0	1585	1781	1832	32	1781	1870	0
Grp Volume(v), veh/h	38	0	0	130	0	30	8	0	173	40	614	0
Grp Sat Flow(s),veh/h/ln	1464	0	0	1608	0	1585	1781	0	1865	1781	1870	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	2.3	0.8	10.3	0.0
Cycle Q Clear(g_c), s	2.5	0.0	0.0	2.5	0.0	0.6	0.2	0.0	2.3	0.8	10.3	0.0
Prop In Lane	0.03		0.95	1.00		1.00	1.00		0.02	1.00		0.00
Lane Grp Cap(c), veh/h	278	0	0	392	0	191	15	0	728	65	782	0
V/C Ratio(X)	0.14	0.00	0.00	0.33	0.00	0.16	0.53	0.00	0.24	0.61	0.78	0.00
Avail Cap(c_a), veh/h	2075	0	0	1946	0	1987	1018	0	2239	1018	2246	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	14.4	0.0	0.0	15.1	0.0	14.3	17.9	0.0	7.4	17.2	9.1	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.2	0.0	0.1	10.1	0.0	0.1	3.5	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.9	0.0	0.2	0.1	0.0	0.6	0.3	2.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.4	0.0	0.0	15.3	0.0	14.4	27.9	0.0	7.5	20.6	9.8	0.0
LnGrp LOS	B	A	A	B	A	B	C	A	A	C	A	A
Approach Vol, veh/h		38			160			181			654	
Approach Delay, s/veh		14.4			15.1			8.4			10.5	
Approach LOS		B			B			A			B	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	20.6		9.0	5.6	21.6		9.0				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I1), s	2.8	4.3		4.5	2.2	12.3		4.5				
Green Ext Time (p_c), s	0.0	0.6		0.1	0.0	2.9		0.5				
Intersection Summary												
HCM 6th Ctrl Delay				11.0								
HCM 6th LOS				B								

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Opening Year Baseline
Timing Plan: AM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	701	204	75	1145	60	205	73	40	134	208	121
Future Volume (veh/h)	59	701	204	75	1145	60	205	73	40	134	208	121
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	65	770	224	82	1258	66	225	80	44	147	229	133
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	142	2167	673	144	1513	1108	244	144	250	943	246	143
Arrive On Green	0.08	0.42	0.42	0.08	0.43	0.43	0.14	0.08	0.08	0.27	0.22	0.22
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	1110	645
Grp Volume(v), veh/h	65	770	224	82	1258	66	225	80	44	147	0	362
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1754
Q Serve(g_s), s	6.8	19.9	18.5	8.6	61.4	0.9	24.3	8.0	2.6	6.3	0.0	39.4
Cycle Q Clear(g_c), s	6.8	19.9	18.5	8.6	61.4	0.9	24.3	8.0	2.6	6.3	0.0	39.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.37
Lane Grp Cap(c), veh/h	142	2167	673	144	1513	1108	244	144	250	943	0	389
V/C Ratio(X)	0.46	0.36	0.33	0.57	0.83	0.06	0.92	0.56	0.18	0.16	0.00	0.93
Avail Cap(c_a), veh/h	195	2167	673	231	1513	1108	322	245	336	1139	0	490
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	85.7	38.0	37.6	86.3	49.8	2.6	83.1	86.8	31.2	53.8	0.0	74.4
Incr Delay (d2), s/veh	2.3	0.5	1.3	3.5	5.5	0.1	26.1	3.3	0.3	0.1	0.0	21.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.3	8.6	7.6	4.2	28.6	0.5	13.1	4.1	1.2	2.8	0.0	20.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	88.0	38.5	39.0	89.8	55.2	2.7	109.2	90.1	31.5	53.9	0.0	95.8
LnGrp LOS	F	D	D	F	E	A	F	F	C	D	A	F
Approach Vol, veh/h	1059			1406			349			509		
Approach Delay, s/veh	41.6			54.8			95.0			83.7		
Approach LOS	D			D			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	21.5	90.3	32.4	50.8	21.2	90.5	60.7	22.5				
Change Period (Y+Rc), s	5.7	7.5	*5.7	7.5	*5.7	7.5	7.5	*7.5				
Max Green Setting (Gmax), s	25	53.5	*35	54.5	*21	57.5	64.3	*26				
Max Q Clear Time (g_c+I), s	6	21.9	26.3	41.4	8.8	63.4	8.3	10.0				
Green Ext Time (p_c), s	0.1	7.1	0.4	1.8	0.1	0.0	0.5	0.4				
Intersection Summary												
HCM 6th Ctrl Delay	59.2											
HCM 6th LOS	E											
Notes												
User approved pedestrian interval to be less than phase max green.												
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.												

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Opening Year Baseline
Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		↔		↔	
Traffic Vol, veh/h	3	4	7	169	571	4
Future Vol, veh/h	3	4	7	169	571	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	4	8	184	621	4

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	823	623	625	0	0
Stage 1	623	-	-	-	-
Stage 2	200	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	343	486	956	-	-
Stage 1	535	-	-	-	-
Stage 2	834	-	-	-	-
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	340	486	956	-	-
Mov Cap-2 Maneuver	340	-	-	-	-
Stage 1	530	-	-	-	-
Stage 2	834	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.9	0.3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	956	-	410	-	-
HCM Lane V/C Ratio	0.008	-	0.019	-	-
HCM Control Delay (s)	8.8	0	13.9	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Opening Year Baseline
 Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↔		↔		↔	
Traffic Vol, veh/h	6	8	13	163	575	8
Future Vol, veh/h	6	8	13	163	575	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	9	14	177	625	9

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	835	630	634	0	-	0
Stage 1	630	-	-	-	-	-
Stage 2	205	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	338	482	949	-	-	-
Stage 1	531	-	-	-	-	-
Stage 2	829	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	333	482	949	-	-	-
Mov Cap-2 Maneuver	333	-	-	-	-	-
Stage 1	523	-	-	-	-	-
Stage 2	829	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.3	0.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	949	-	404	-	-
HCM Lane V/C Ratio	0.015	-	0.038	-	-
HCM Control Delay (s)	8.9	0	14.3	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Opening Year Baseline
 Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		T		T	
Traffic Vol, veh/h	1	3	6	754	207	3
Future Vol, veh/h	1	3	6	754	207	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	3	6	777	213	3

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1004	215	216	0	-	0
Stage 1	215	-	-	-	-	-
Stage 2	789	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	268	825	1354	-	-	-
Stage 1	821	-	-	-	-	-
Stage 2	448	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	266	825	1354	-	-	-
Mov Cap-2 Maneuver	266	-	-	-	-	-
Stage 1	814	-	-	-	-	-
Stage 2	448	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.7	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1354	-	541	-	-
HCM Lane V/C Ratio	0.005	-	0.008	-	-
HCM Control Delay (s)	7.7	0	11.7	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Opening Year Baseline
 Timing Plan: PM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	0	4	125	0	75	15	660	2	14	213	5
Future Volume (veh/h)	2	0	4	125	0	75	15	660	2	14	213	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	2	0	4	130	0	78	16	688	2	15	222	5
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	146	35	122	377	0	193	29	845	2	27	824	19
Arrive On Green	0.12	0.00	0.12	0.12	0.00	0.12	0.02	0.45	0.45	0.02	0.45	0.45
Sat Flow, veh/h	214	286	1000	1622	0	1585	1781	1864	5	1781	1822	41
Grp Volume(v), veh/h	6	0	0	130	0	78	16	0	690	15	0	227
Grp Sat Flow(s),veh/h/ln	1500	0	0	1622	0	1585	1781	0	1869	1781	0	1863
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	1.8	0.4	0.0	12.8	0.3	0.0	3.0
Cycle Q Clear(g_c), s	2.8	0.0	0.0	2.8	0.0	1.8	0.4	0.0	12.8	0.3	0.0	3.0
Prop In Lane	0.33		0.67	1.00		1.00	1.00		0.00	1.00		0.02
Lane Grp Cap(c), veh/h	303	0	0	377	0	193	29	0	847	27	0	842
V/C Ratio(X)	0.02	0.00	0.00	0.34	0.00	0.40	0.55	0.00	0.81	0.55	0.00	0.27
Avail Cap(c_a), veh/h	1807	0	0	1808	0	1798	921	0	2032	921	0	2025
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.5	0.0	0.0	16.7	0.0	16.2	19.5	0.0	9.5	19.6	0.0	6.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.5	5.9	0.0	0.7	6.2	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.0	1.0	0.0	0.6	0.2	0.0	3.7	0.2	0.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.5	0.0	0.0	16.9	0.0	16.7	25.5	0.0	10.2	25.8	0.0	6.9
LnGrp LOS	B	A	A	B	A	B	C	A	B	C	A	A
Approach Vol, veh/h		6			208			706			242	
Approach Delay, s/veh		15.5			16.8			10.6			8.1	
Approach LOS		B			B			B			A	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.9	24.6		9.5	6.0	24.6		9.5				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I1), s	2.3	14.8		4.8	2.4	5.0		4.8				
Green Ext Time (p_c), s	0.0	3.3		0.0	0.0	0.9		0.6				
Intersection Summary												
HCM 6th Ctrl Delay	11.2											
HCM 6th LOS	B											

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Opening Year Baseline
 Timing Plan: PM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	208	1053	128	27	848	312	98	164	44	149	59	88
Future Volume (veh/h)	208	1053	128	27	848	312	98	164	44	149	59	88
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	219	1108	135	28	893	328	103	173	46	157	62	93
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	195	3143	976	114	2027	1018	122	195	266	248	79	118
Arrive On Green	0.11	0.62	0.62	0.06	0.57	0.57	0.07	0.10	0.10	0.07	0.12	0.12
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	675	1013
Grp Volume(v), veh/h	219	1108	135	28	893	328	103	173	46	157	0	155
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1688
Q Serve(g_s), s	21.3	20.8	7.0	2.9	28.1	7.0	11.1	17.8	3.8	8.6	0.0	17.4
Cycle Q Clear(g_c), s	21.3	20.8	7.0	2.9	28.1	7.0	11.1	17.8	3.8	8.6	0.0	17.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.60
Lane Grp Cap(c), veh/h	195	3143	976	114	2027	1018	122	195	266	248	0	197
V/C Ratio(X)	1.13	0.35	0.14	0.25	0.44	0.32	0.85	0.89	0.17	0.63	0.00	0.79
Avail Cap(c_a), veh/h	195	3143	976	231	2027	1018	322	245	309	1139	0	472
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	86.8	18.4	15.8	86.8	24.0	4.9	89.8	86.2	44.2	88.0	0.0	83.8
Incr Delay (d2), s/veh	102.3	0.3	0.3	1.1	0.7	0.8	14.5	26.3	0.3	2.7	0.0	6.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.4	8.6	2.7	1.4	12.4	3.5	5.7	10.1	1.7	4.0	0.0	8.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	189.1	18.7	16.1	87.9	24.7	5.7	104.3	112.5	44.5	90.7	0.0	90.6
LnGrp LOS	F	B	B	F	C	A	F	F	D	F	A	F
Approach Vol, veh/h	1462			1249			322			312		
Approach Delay, s/veh	44.0			21.2			100.2			90.6		
Approach LOS	D			C			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	88.2	127.5	19.0	30.3	27.0	118.7	21.5	27.8				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (Gmax), s	25	53.5	* 35	54.5	* 21	57.5	64.3	* 26				
Max Q Clear Time (g_c+I), s	14.9	22.8	13.1	19.4	23.3	30.1	10.6	19.8				
Green Ext Time (p_c), s	0.0	10.2	0.2	1.0	0.0	8.7	0.6	0.5				

Intersection Summary

HCM 6th Ctrl Delay	45.2
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
 * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Opening Year Baseline
 Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		↑		↑	
Traffic Vol, veh/h	4	6	6	757	206	4
Future Vol, veh/h	4	6	6	757	206	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	7	7	823	224	4

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	1063	226	228	0	0
Stage 1	226	-	-	-	-
Stage 2	837	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	247	813	1340	-	-
Stage 1	812	-	-	-	-
Stage 2	425	-	-	-	-
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	245	813	1340	-	-
Mov Cap-2 Maneuver	245	-	-	-	-
Stage 1	804	-	-	-	-
Stage 2	425	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.8	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1340	-	422	-	-
HCM Lane V/C Ratio	0.005	-	0.026	-	-
HCM Control Delay (s)	7.7	0	13.8	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Opening Year Baseline
Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		T		T	
Traffic Vol, veh/h	17	27	28	740	212	18
Future Vol, veh/h	17	27	28	740	212	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	29	30	804	230	20

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1104	240	250	0	-	0
Stage 1	240	-	-	-	-	-
Stage 2	864	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	234	799	1316	-	-	-
Stage 1	800	-	-	-	-	-
Stage 2	413	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	224	799	1316	-	-	-
Mov Cap-2 Maneuver	224	-	-	-	-	-
Stage 1	767	-	-	-	-	-
Stage 2	413	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15.2	0.3	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1316	-	401	-	-
HCM Lane V/C Ratio	0.023	-	0.119	-	-
HCM Control Delay (s)	7.8	0	15.2	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.4	-	-

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Opening Year w/Proj
 Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			←	→	
Traffic Vol, veh/h	0	1	2	182	587	1
Future Vol, veh/h	0	1	2	182	587	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1	2	200	645	1

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	850	646	646	0	-	0
Stage 1	646	-	-	-	-	-
Stage 2	204	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	331	472	939	-	-	-
Stage 1	522	-	-	-	-	-
Stage 2	830	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	330	472	939	-	-	-
Mov Cap-2 Maneuver	330	-	-	-	-	-
Stage 1	521	-	-	-	-	-
Stage 2	830	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.6	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	939	-	472	-	-
HCM Lane V/C Ratio	0.002	-	0.002	-	-
HCM Control Delay (s)	8.8	0	12.6	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Opening Year w/Proj
 Timing Plan: AM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SEB
Lane Configurations												
Traffic Volume (veh/h)	1	1	32	114	0	26	7	170	3	35	558	0
Future Volume (veh/h)	1	1	32	114	0	26	7	170	3	35	558	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	1	36	130	0	30	8	193	3	40	634	0
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	102	7	167	388	0	190	15	735	11	65	800	0
Arrive On Green	0.12	0.12	0.12	0.12	0.00	0.12	0.01	0.40	0.40	0.04	0.43	0.00
Sat Flow, veh/h	18	60	1394	1609	0	1585	1781	1837	29	1781	1870	0
Grp Volume(v), veh/h	38	0	0	130	0	30	8	0	196	40	634	0
Grp Sat Flow(s),veh/h/ln	1472	0	0	1609	0	1585	1781	0	1865	1781	1870	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	2.6	0.8	10.8	0.0
Cycle Q Clear(g_c), s	2.6	0.0	0.0	2.6	0.0	0.6	0.2	0.0	2.6	0.8	10.8	0.0
Prop In Lane	0.03		0.95	1.00		1.00	1.00		0.02	1.00		0.00
Lane Grp Cap(c), veh/h	277	0	0	388	0	190	15	0	746	65	800	0
V/C Ratio(X)	0.14	0.00	0.00	0.34	0.00	0.16	0.53	0.00	0.26	0.62	0.79	0.00
Avail Cap(c_a), veh/h	2033	0	0	1907	0	1946	997	0	2195	997	2201	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	14.7	0.0	0.0	15.4	0.0	14.6	18.3	0.0	7.4	17.6	9.2	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.2	0.0	0.1	10.1	0.0	0.1	3.5	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.9	0.0	0.2	0.1	0.0	0.7	0.3	3.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.7	0.0	0.0	15.6	0.0	14.7	28.3	0.0	7.5	21.1	9.8	0.0
LnGrp LOS	B	A	A	B	A	B	C	A	A	C	A	A
Approach Vol, veh/h		38			160			204			674	
Approach Delay, s/veh		14.7			15.5			8.3			10.5	
Approach LOS		B			B			A			B	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	21.3		9.0	5.6	22.3		9.0				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I1), s	2.8	4.6		4.6	2.2	12.8		4.6				
Green Ext Time (p_c), s	0.0	0.7		0.1	0.0	3.0		0.5				
Intersection Summary												
HCM 6th Ctrl Delay				11.0								
HCM 6th LOS				B								

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Opening Year w/Proj
Timing Plan: AM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↑↑↑	↗	↖	↑↑	↗	↖	↑	↗	↖↗	↖	↖
Traffic Volume (veh/h)	67	701	204	75	1145	68	205	76	40	142	211	129
Future Volume (veh/h)	67	701	204	75	1145	68	205	76	40	142	211	129
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	74	770	224	82	1258	75	225	84	44	156	232	142
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	144	2131	662	144	1485	1106	244	144	250	968	249	152
Arrive On Green	0.08	0.42	0.42	0.08	0.42	0.42	0.14	0.08	0.08	0.28	0.23	0.23
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	1086	665
Grp Volume(v), veh/h	74	770	224	82	1258	75	225	84	44	156	0	374
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1751
Q Serve(g_s), s	7.8	20.2	18.7	8.6	62.2	1.1	24.3	8.5	2.5	6.6	0.0	40.8
Cycle Q Clear(g_c), s	7.8	20.2	18.7	8.6	62.2	1.1	24.3	8.5	2.5	6.6	0.0	40.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.38
Lane Grp Cap(c), veh/h	144	2131	662	144	1485	1106	244	144	250	968	0	401
V/C Ratio(X)	0.52	0.36	0.34	0.57	0.85	0.07	0.92	0.58	0.18	0.16	0.00	0.93
Avail Cap(c_a), veh/h	195	2131	662	231	1485	1106	322	245	336	1139	0	489
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	86.0	39.0	38.5	86.3	51.1	2.6	83.1	87.0	31.0	52.9	0.0	73.7
Incr Delay (d2), s/veh	2.8	0.5	1.4	3.5	6.2	0.1	26.1	3.7	0.3	0.1	0.0	22.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.7	8.8	7.7	4.2	29.2	0.6	13.1	4.3	1.2	3.0	0.0	21.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	88.8	39.4	39.9	89.8	57.3	2.7	109.2	90.7	31.3	53.0	0.0	96.2
LnGrp LOS	F	D	D	F	E	A	F	F	C	D	A	F
Approach Vol, veh/h	1068			1415			353			530		
Approach Delay, s/veh	43.0			56.3			95.1			83.5		
Approach LOS	D			E			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	15	88.9	32.4	52.2	21.4	89.0	62.1	22.5				
Change Period (Y+Rc), s	5.7	7.5	*5.7	7.5	*5.7	7.5	7.5	*7.5				
Max Green Setting (Gmax), s	25	53.5	*35	54.5	*21	57.5	64.3	*26				
Max Q Clear Time (g_c+ff), s	6	22.2	26.3	42.8	9.8	64.2	8.6	10.5				
Green Ext Time (p_c), s	0.1	7.1	0.4	1.8	0.1	0.0	0.6	0.4				

Intersection Summary

HCM 6th Ctrl Delay	60.4
HCM 6th LOS	E

Notes

- User approved pedestrian interval to be less than phase max green.
- * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Opening Year w/Proj
 Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↘		↖		↖	
Traffic Vol, veh/h	18	19	23	177	581	20
Future Vol, veh/h	18	19	23	177	581	20
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	20	21	25	192	632	22

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	885	643	654	0	0
Stage 1	643	-	-	-	-
Stage 2	242	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	315	473	933	-	-
Stage 1	523	-	-	-	-
Stage 2	798	-	-	-	-
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	306	473	933	-	-
Mov Cap-2 Maneuver	306	-	-	-	-
Stage 1	507	-	-	-	-
Stage 2	798	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15.8	1	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	933	-	374	-	-
HCM Lane V/C Ratio	0.027	-	0.108	-	-
HCM Control Delay (s)	9	0	15.8	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.4	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Opening Year w/Proj
 Timing Plan: AM PEAK

Intersection

Int Delay, s/veh 1.6

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	27	34	43	166	577	31
Future Vol, veh/h	27	34	43	166	577	31
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	37	47	180	627	34

Major/Minor Minor2 Major1 Major2

Conflicting Flow All	918	644	661	0	-	0
Stage 1	644	-	-	-	-	-
Stage 2	274	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	302	473	927	-	-	-
Stage 1	523	-	-	-	-	-
Stage 2	772	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	285	473	927	-	-	-
Mov Cap-2 Maneuver	285	-	-	-	-	-
Stage 1	494	-	-	-	-	-
Stage 2	772	-	-	-	-	-

Approach EB NB SB

HCM Control Delay, s	17	1.9	0
HCM LOS	C		

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h)	927	-	366	-	-
HCM Lane V/C Ratio	0.05	-	0.181	-	-
HCM Control Delay (s)	9.1	0	17	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.2	-	0.7	-	-

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Opening Year w/Proj
 Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			↑		↑
Traffic Vol, veh/h	1	3	6	773	226	3
Future Vol, veh/h	1	3	6	773	226	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	3	6	797	233	3

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1044	235	236	0	-	0
Stage 1	235	-	-	-	-	-
Stage 2	809	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	254	804	1331	-	-	-
Stage 1	804	-	-	-	-	-
Stage 2	438	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	252	804	1331	-	-	-
Mov Cap-2 Maneuver	252	-	-	-	-	-
Stage 1	798	-	-	-	-	-
Stage 2	438	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1331	-	520	-	-
HCM Lane V/C Ratio	0.005	-	0.008	-	-
HCM Control Delay (s)	7.7	0	12	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

**Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira**

Opening Year w/Proj
Timing Plan: PM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	0	4	125	0	75	15	689	2	14	242	5
Future Volume (veh/h)	2	0	4	125	0	75	15	689	2	14	242	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	2	0	4	130	0	78	16	718	2	15	252	5
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	142	34	120	370	0	192	29	871	2	27	852	17
Arrive On Green	0.12	0.00	0.12	0.12	0.00	0.12	0.02	0.47	0.47	0.02	0.47	0.47
Sat Flow, veh/h	212	284	991	1624	0	1585	1781	1864	5	1781	1828	36
Grp Volume(v), veh/h	6	0	0	130	0	78	16	0	720	15	0	257
Grp Sat Flow(s),veh/h/ln	1486	0	0	1624	0	1585	1781	0	1869	1781	0	1864
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	1.9	0.4	0.0	13.8	0.3	0.0	3.5
Cycle Q Clear(g_c), s	2.9	0.0	0.0	2.9	0.0	1.9	0.4	0.0	13.8	0.3	0.0	3.5
Prop In Lane	0.33		0.67	1.00		1.00	1.00		0.00	1.00		0.02
Lane Grp Cap(c), veh/h	296	0	0	370	0	192	29	0	874	27	0	869
V/C Ratio(X)	0.02	0.00	0.00	0.35	0.00	0.41	0.55	0.00	0.82	0.55	0.00	0.30
Avail Cap(c_a), veh/h	1747	0	0	1750	0	1740	892	0	1966	892	0	1960
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.0	0.0	0.0	17.2	0.0	16.8	20.2	0.0	9.5	20.2	0.0	6.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.5	6.0	0.0	0.8	6.3	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.0	1.0	0.0	0.6	0.2	0.0	4.0	0.2	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.1	0.0	0.0	17.5	0.0	17.3	26.2	0.0	10.3	26.5	0.0	6.9
LnGrp LOS	B	A	A	B	A	B	C	A	B	C	A	A
Approach Vol, veh/h		6			208			736			272	
Approach Delay, s/veh		16.1			17.4			10.7			8.0	
Approach LOS		B			B			B			A	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.9	25.8		9.6	6.0	25.8		9.6				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+11), s	2.3	15.8		4.9	2.4	5.5		4.9				
Green Ext Time (p_c), s	0.0	3.5		0.0	0.0	1.0		0.6				
Intersection Summary												
HCM 6th Ctrt Delay				11.2								
HCM 6th LOS				B								

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Opening Year w/Proj
Timing Plan: PM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	220	1053	128	27	848	324	98	169	44	161	64	100
Future Volume (veh/h)	220	1053	128	27	848	324	98	169	44	161	64	100
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	232	1108	135	28	893	341	103	178	46	169	67	105
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	195	3130	972	114	2018	1014	122	199	270	248	78	123
Arrive On Green	0.11	0.61	0.61	0.06	0.57	0.57	0.07	0.11	0.11	0.07	0.12	0.12
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	656	1029
Grp Volume(v), veh/h	232	1108	135	28	893	341	103	178	46	169	0	172
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1685
Q Serve(g_s), s	21.3	20.9	7.0	2.9	28.3	7.4	11.1	18.3	3.8	9.3	0.0	19.5
Cycle Q Clear(g_c), s	21.3	20.9	7.0	2.9	28.3	7.4	11.1	18.3	3.8	9.3	0.0	19.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.61
Lane Grp Cap(c), veh/h	195	3130	972	114	2018	1014	122	199	270	248	0	201
V/C Ratio(X)	1.19	0.35	0.14	0.25	0.44	0.34	0.85	0.89	0.17	0.68	0.00	0.86
Avail Cap(c_a), veh/h	195	3130	972	231	2018	1014	322	245	309	1139	0	471
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	86.8	18.7	16.0	86.8	24.3	5.0	89.8	86.0	43.8	88.3	0.0	84.2
Incr Delay (d2), s/veh	126.0	0.3	0.3	1.1	0.7	0.9	14.5	27.5	0.3	3.3	0.0	10.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.7	8.6	2.7	1.4	12.4	3.7	5.7	10.5	1.7	4.3	0.0	9.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	212.8	19.0	16.3	87.9	25.0	5.9	104.3	113.5	44.1	91.6	0.0	94.2
LnGrp LOS	F	B	B	F	C	A	F	F	D	F	A	F
Approach Vol, veh/h	1475			1262			327			341		
Approach Delay, s/veh	49.2			21.3			100.8			92.9		
Approach LOS	D			C			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	8.2	127.0	19.0	30.7	27.0	118.2	21.5	28.3				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (Gmax), s	53.5	* 35	54.5	* 21	57.5	64.3	* 26					
Max Q Clear Time (g_c+I), s	22.9	13.1	21.5	23.3	30.3	11.3	20.3					
Green Ext Time (p_c), s	0.0	10.2	0.2	1.1	0.0	8.7	0.6	0.5				

Intersection Summary

HCM 6th Ctrl Delay	48.2
HCM 6th LOS	D

Notes

- User approved pedestrian interval to be less than phase max green.
- * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Opening Year w/Proj
 Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		4		4	
Traffic Vol, veh/h	23	25	26	770	220	24
Future Vol, veh/h	23	25	26	770	220	24
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	25	27	28	837	239	26

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	1145	252	265	0	0
Stage 1	252	-	-	-	-
Stage 2	893	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	221	787	1299	-	-
Stage 1	790	-	-	-	-
Stage 2	400	-	-	-	-
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	212	787	1299	-	-
Mov Cap-2 Maneuver	212	-	-	-	-
Stage 1	758	-	-	-	-
Stage 2	400	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	17.4	0.3	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1299	-	342	-	-
HCM Lane V/C Ratio	0.022	-	0.153	-	-
HCM Control Delay (s)	7.8	0	17.4	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.5	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Opening Year w/Proj
 Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	2.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	45	66	68	745	216	47
Future Vol, veh/h	45	66	68	745	216	47
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	49	72	74	810	235	51

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1219	261	286	0	-	0
Stage 1	261	-	-	-	-	-
Stage 2	958	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	199	778	1276	-	-	-
Stage 1	783	-	-	-	-	-
Stage 2	373	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	178	778	1276	-	-	-
Mov Cap-2 Maneuver	178	-	-	-	-	-
Stage 1	701	-	-	-	-	-
Stage 2	373	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	22.1	0.7	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1276	-	329	-	-
HCM Lane V/C Ratio	0.058	-	0.367	-	-
HCM Control Delay (s)	8	0	22.1	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.2	-	1.6	-	-

➤ **ATTACHMENT C: Year 2050 Analysis**

October 28, 2021

Mr. Rafid Hamika
370 Bridgeton Cross Court
Las Vegas, NV. 89148
C/O: CCI

D&A Ref. No: 191201

Subject: Updated Year 2050 Traffic Operations Analysis for Old Highway 395 Retail Center in Fallbrook, California. PDS 2019-049, APN 125-050-54-00

Dear Mr. Hamika

In accordance with your authorization, Darnell & Associates (D&A) has analyzed the existing and future 2050 daily volumes for Old Highway 395 adjacent to the project site between Pala Mesa Road to the north and SR-76 to the south to determine the recommended channelization on Old Highway 395 adjacent to the project site. **Figure 1** is a vicinity map showing the project location and **Figure 2** presents the preliminary site plan. The report has been updated to expand Table 3 and clarify the recommended classification of Old Highway 395 and report to the County Traffic Engineer Comments dated June 2, 2021.

The purpose of our analysis is to review the existing traffic volumes on Old Highway 395 from Pala Mesa Road to SR-76, Year 2050 Traffic volumes and the addition of project traffic to Old Highway 395. The project proposes to add two (2) 6,000 square foot retail buildings and a 3,250 square foot convenience store with 6 fueling positions to provide 12 pumps to the existing project site with a 9,075 square foot retail building and existing Nussy Burger fast food building.

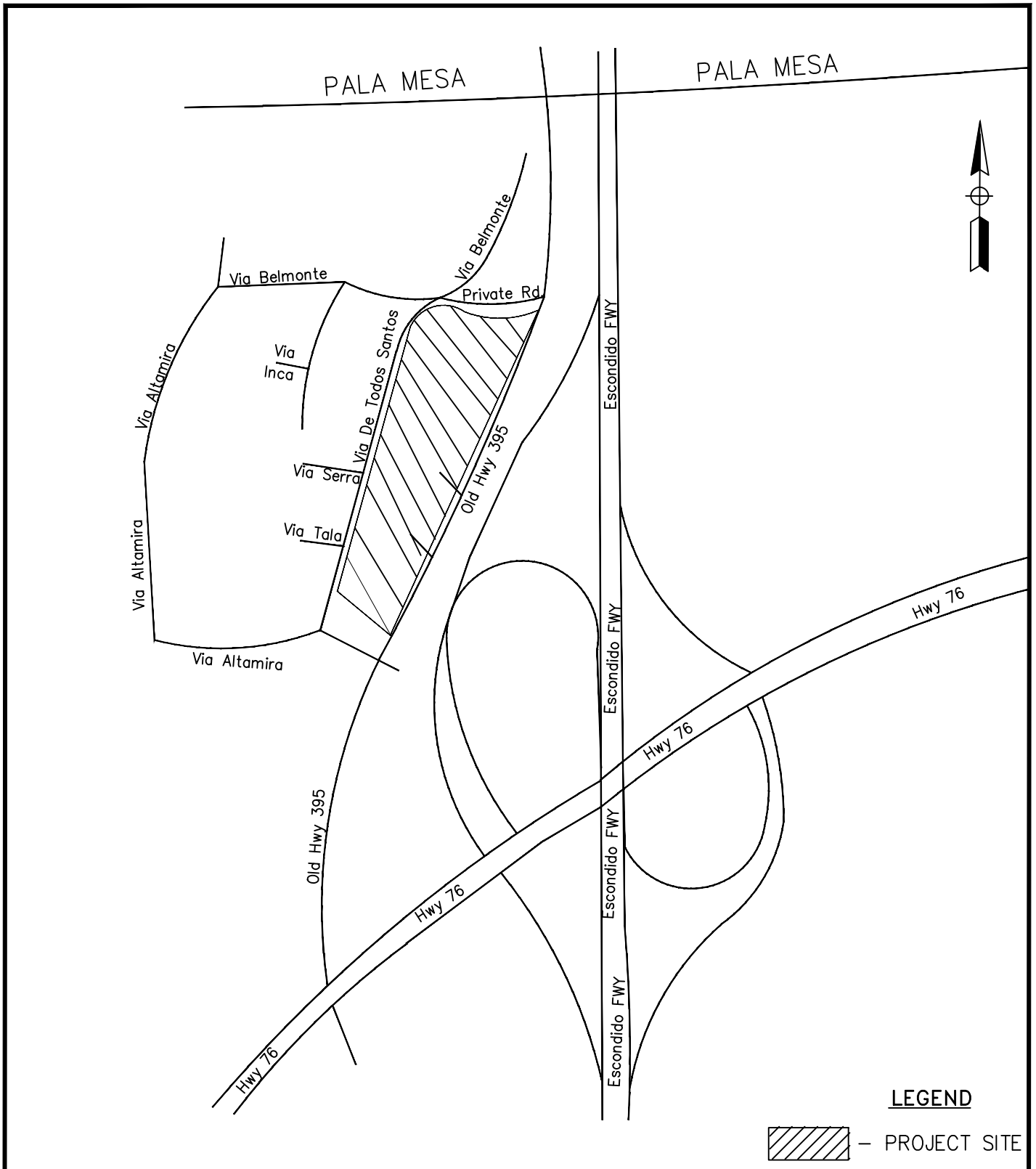
The first step in the analysis, we collected existing daily traffic volumes and AM/PM peak hour traffic volumes on Old Highway 395. **Figure 3** presents the existing traffic volumes to be analyzed. The Future 2050 traffic forecasts for the area were obtained from the County of San Diego SANDAG General Plan 2050 Traffic Forecasts. The Year 2050 daily traffic forecasts are presented on **Figure 4**. The classification of the roadways is based on the County Mobility Element Classification for the Fallbrook Community Plan and is presented on **Figure 5**.

Trip generation for the proposed project was then estimated and assigned to Old Highway 395 from Pala Mesa Road to the north of the project to SR-78 to the south of the project. Table 1 presents the project Trip Generation. Review of Table 1 shows the project is estimated to generate 1,310 daily, 63 AM and 96 PM peak hour trips with pass-by reductions.

Project traffic was then assigned to Old Highway 395, based on sixty (60%) percent of the project traffic oriented to the south and forty (40%) percent of traffic to the north. **Figure 6** presents the project trip distribution and **Figure 7** presents the project traffic and **Figure 8** presents the existing roadway geometrics. Project traffic shown on **Figure 7** was then added to existing volumes shown on **Figure 3**. The results are presented on **Figure 9**.

To determine the roadway and intersection geometrics for Old Highway 395, we analyzed the daily traffic volumes and peak hourly volumes shown on **Figure 9** and the Future Year 2050 volumes presented on **Figure 4**, based on the existing roadway geometrics. Table 2 presents the results of the analysis.

Reviews of Table 2 shows the Old Highway 395 is operating at LOS D south of Via Alamira and LOS C north of Via Alamira. With the addition of project traffic Old Highway 395 south of Via Alamira will continue to operate at LOS D and LOS C adjacent to the project and north of the project.

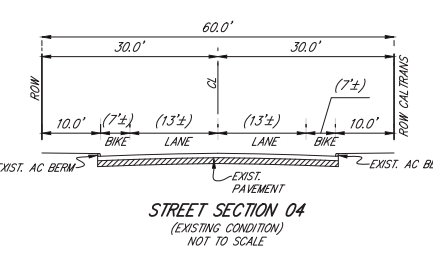
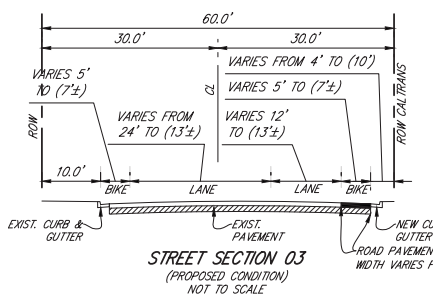
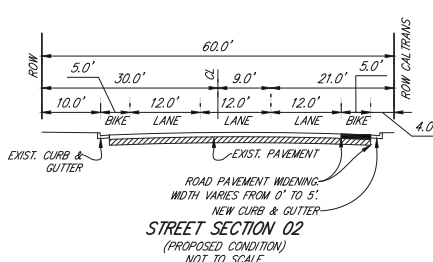
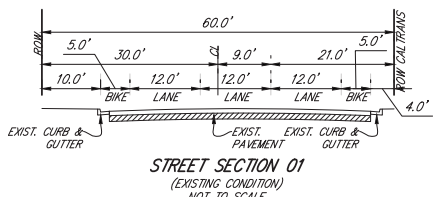


Darnell & ASSOCIATES
 191201 -AC.dwg 10-26-2021 _2050 Analysis JAM

FIGURE 1
VICINITY MAP

LEGEND

BOUNDARY LINE	---
RIGHT OF WAY LINE	--- RW ---
PARCEL LOT LINE	--- PL ---
PCC CURB	=====
PCC CURB & GUTTER	=====
SEWER LINE	— S — S — S
WATER LINE	— W — W — W
FIRE LINE	— F — F — F
FIRE HYDRANT	⊕
BLDG FIRE SERVICE LATERAL	⊕ (F)
WATER SERVICE LATERAL	⊕ (W)
SEWER SERVICE LATERAL	⊕ (S)
DOUBLE DETECTOR CHECK VALVE	⊕ (D)
STORM DRAIN INLETS / CLEANOUTS	□
HEADWALL	▬
HEADWALL	▬
EXIST. TOPO MAJOR CONTOUR	--- 1000 ---
EXIST. TOPO MINOR CONTOUR	--- 1000 ---
PROPOSED TOPO MAJOR CONTOUR	— 1000 —
PROPOSED TOPO MINOR CONTOUR	— 1000 —



OWNER
 RAYES LLC
 7060 CAMINITO MANRESA, LA JOLLA CA 92037

LEGAL DESCRIPTION
 ALL THAT PORTION OF TRACT "A" OF MONSERATE RANCHO, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF ON FILE IN THE OFFICE OF COUNTY RECORDING TO MAP THEREOF ON FILE IN THE OFFICE OF COUNTY RECORDER OF SAN DIEGO COUNTY, IN BOOK 1, PAGE 108 OF PATENTS.

ACREAGE
 GROSS AREA - 4.37 AC

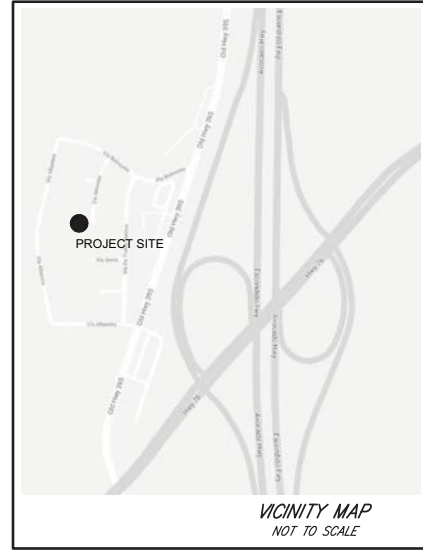
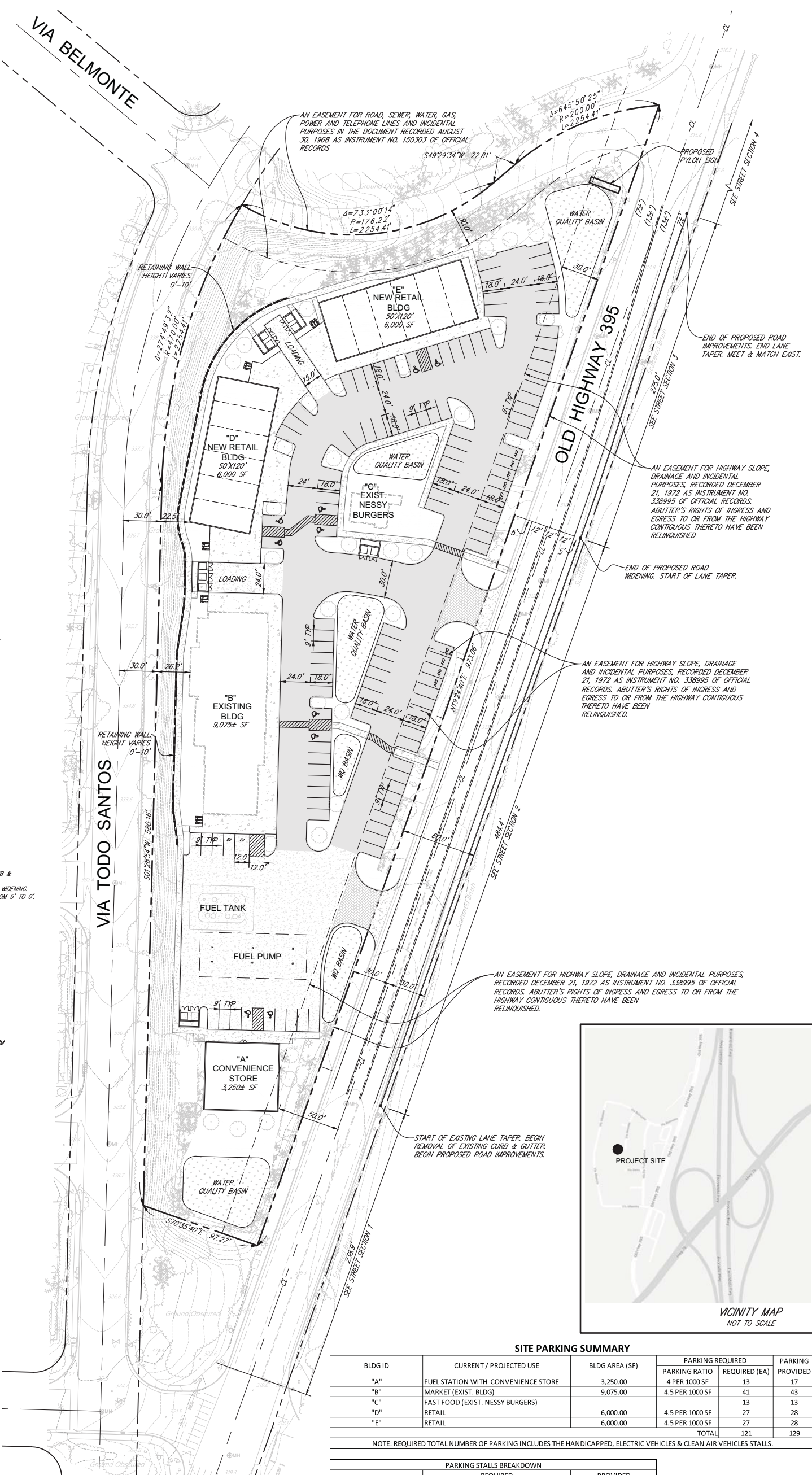
PROPERTY ADDRESS
 3233 OLD HIGHWAY 395
 FALLBROOK, CA 92028

ASSESSORS PARCEL NUMBER
 125-050-54-00

GENERAL PLAN DESIGNATION
 GENERAL COMMERCIAL

SETBACKS
 FRONT = 50' FROM CENTERLINE
 SIDE YARD EXTERIOR = 35' FROM THE CENTERLINE
 SIDE YARD INTERIOR = 0' FROM THE LOTLINE (h)
 REAR YARD = 15' FROM THE LOTLINE (m)

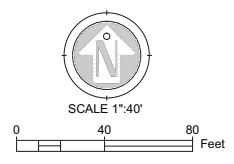
AGENCIES
 FIRE DISTRICT = NORTH COUNTY FIRE PROTECTION DISTRICT
 ELEMENTARY SCHOOL = GEN. ELEM. BONSAI UNION
 HIGH SCHOOL DISTRICT = HIGH FALLBROOK UNION
 WATER DISTRICT = RAINBOW MUNICIPAL WATER DISTRICT
 SANITATION DISTRICT = RAINBOW MUNICIPAL WATER DISTRICT



BLDG ID	CURRENT / PROJECTED USE	BLDG AREA (SF)	PARKING REQUIRED		PARKING PROVIDED
			PARKING RATIO	REQUIRED (EA)	
"A"	FUEL STATION WITH CONVENIENCE STORE	3,250.00	4 PER 1000 SF	13	17
"B"	MARKET (EXIST. BLDG)	9,075.00	4.5 PER 1000 SF	41	43
"C"	FAST FOOD (EXIST. NESSY BURGERS)			13	13
"D"	RETAIL	6,000.00	4.5 PER 1000 SF	27	28
"E"	RETAIL	6,000.00	4.5 PER 1000 SF	27	28
TOTAL				121	129

NOTE: REQUIRED TOTAL NUMBER OF PARKING INCLUDES THE HANDICAPPED, ELECTRIC VEHICLES & CLEAN AIR VEHICLES STALLS.

	REQUIRED	PROVIDED
9'X18' STALLS	105	108
HANDICAPPED STALLS	5	10
ELECTRIC VEHICLE STALLS	2	2
CLEAN AIR VEHICLE STALLS	9	9
TOTAL	121	129

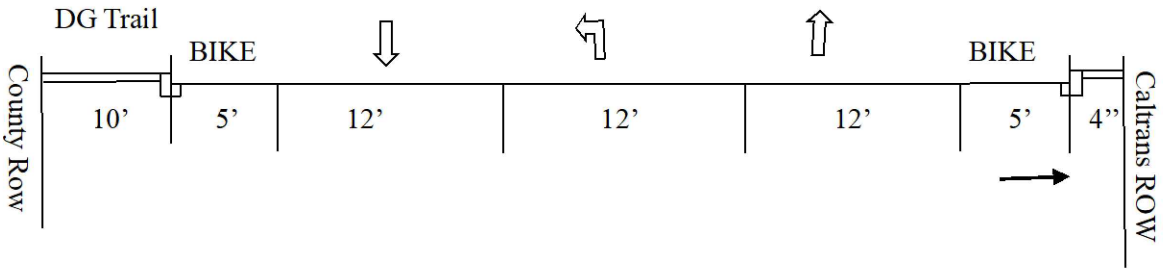


LAND PLANNING • ENGINEERING • SURVEYING
 440 STATE PLAZA, ESCONDIDO, CA 92029
 PH: (760) 945-8818 FX: (760) 945-8154

OLD HIGHWAY 395 RETAIL CENTER SITE CONCEPT

DATE JULY 11, 2019

FIGURE 2 - PROPOSED PROJECT SITE PLAN

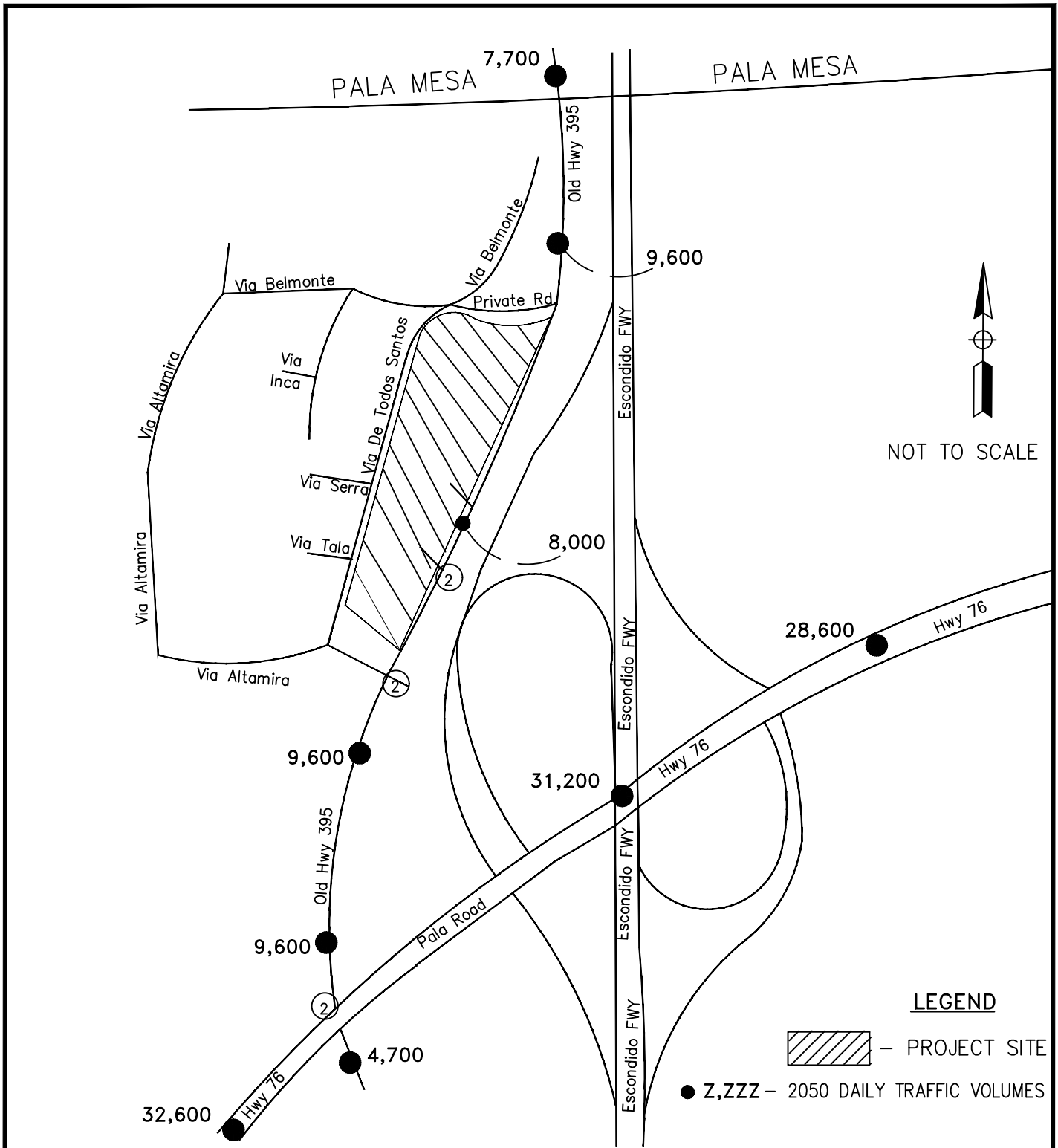


Old Highway 395

Darnell & ASSOCIATES

191201 -AC.dwg 10-30-2021 JAM

FIGURE 3
RECOMMENDED GEOMETRICS
OLD HIGHWAY 395 VIA ALTIMIRA TO VIA BELMONTE (PRIVATE ROAD)



SOURCE: County of San Diego SANDAG Series 12 General Plan Update 2050 Base Forecast

Darnell & ASSOCIATES

191201 -AC.dwg 10-26-2021 _2050 Analysis
JAM

FIGURE 4
BUILD-OUT YEAR 2050
DAILY TRAFFIC VOLUMES

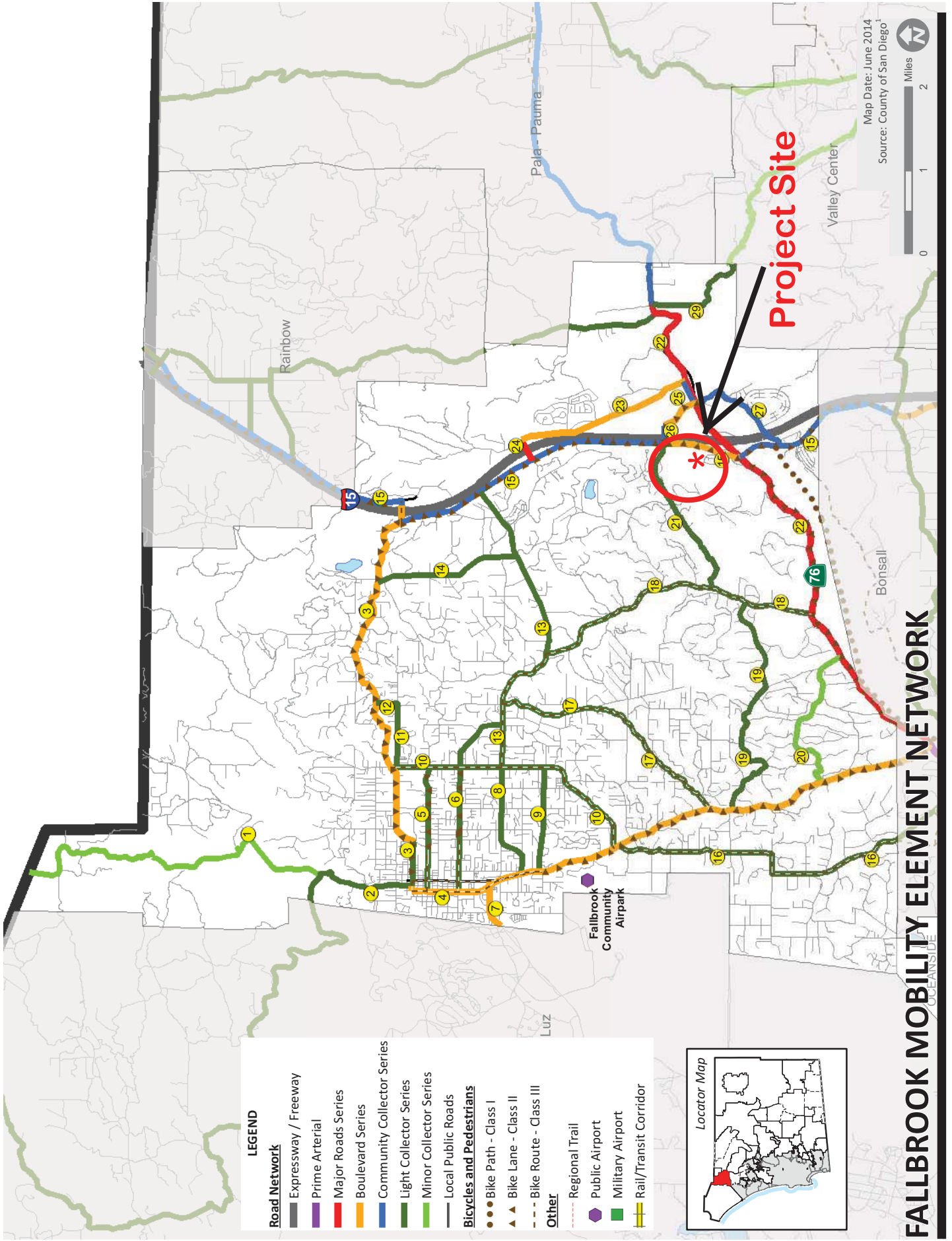
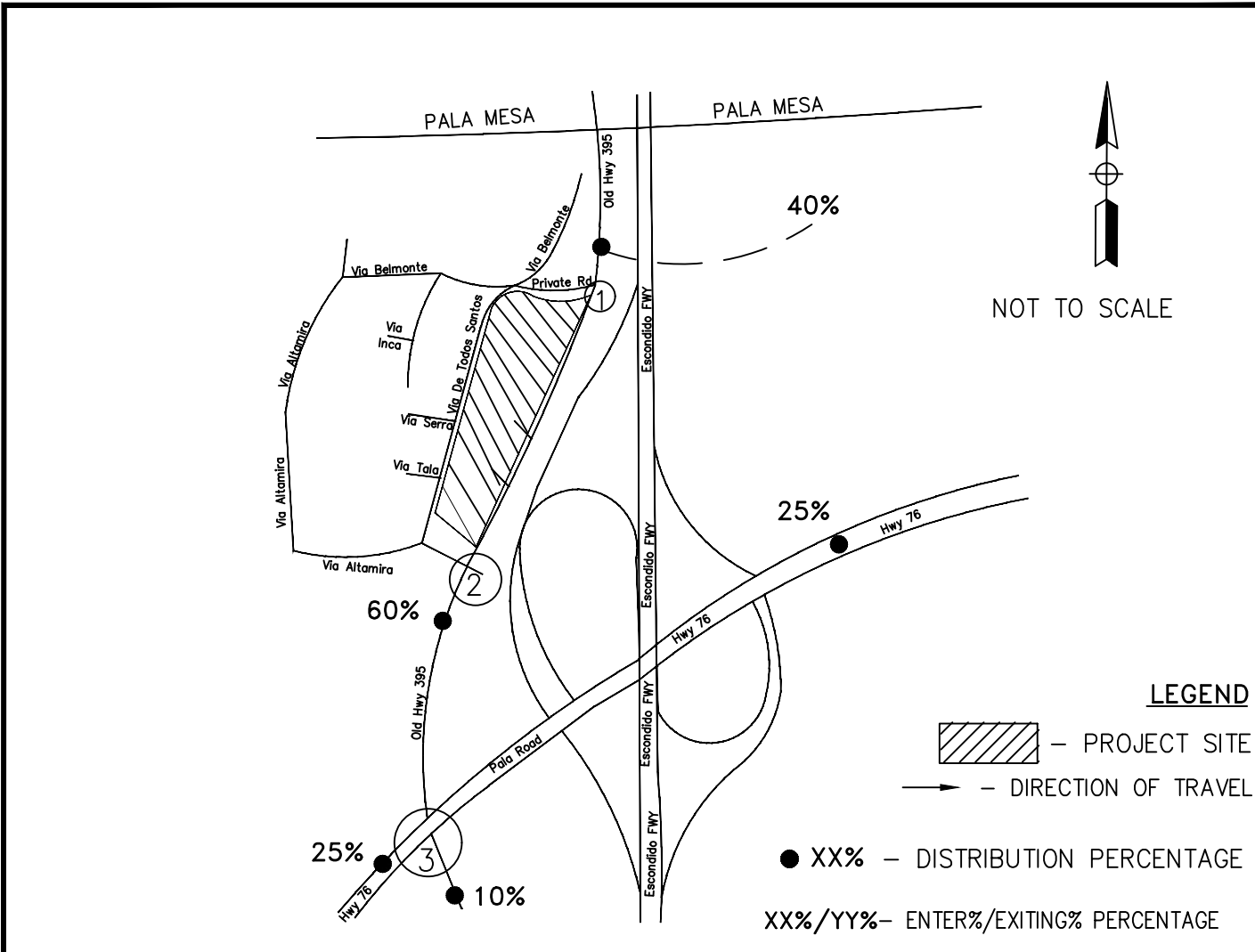


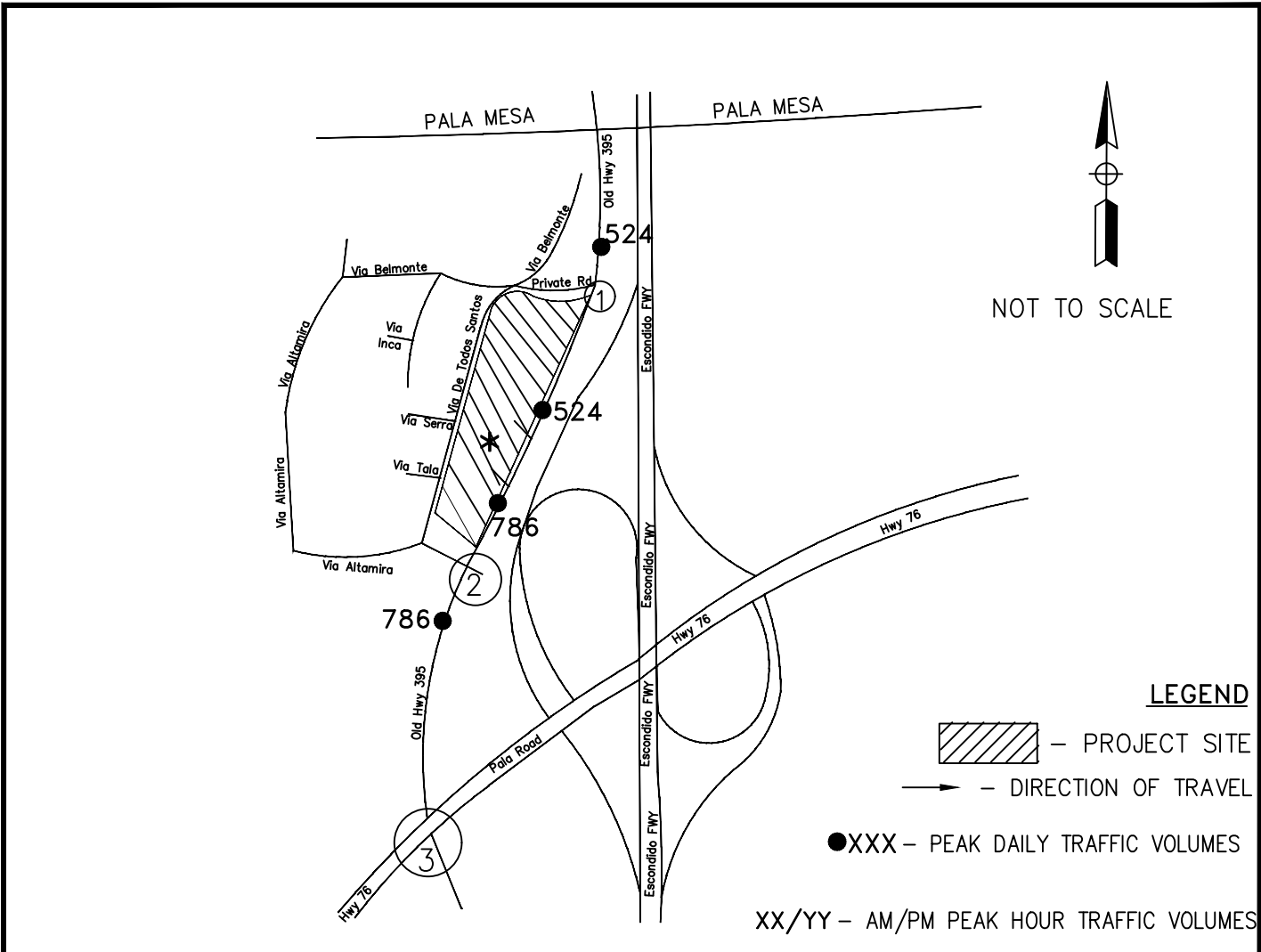
Figure M-A-7

San Diego County General Plan
FIGURE 5 - Fallbrook Mobility Element Network



1. Old Highway 395 at Via Belmonte (Private Rd.)	2. Old Highway 395 at Via Altamira	3. Old Highway 395 at Pala Road (SR-78)

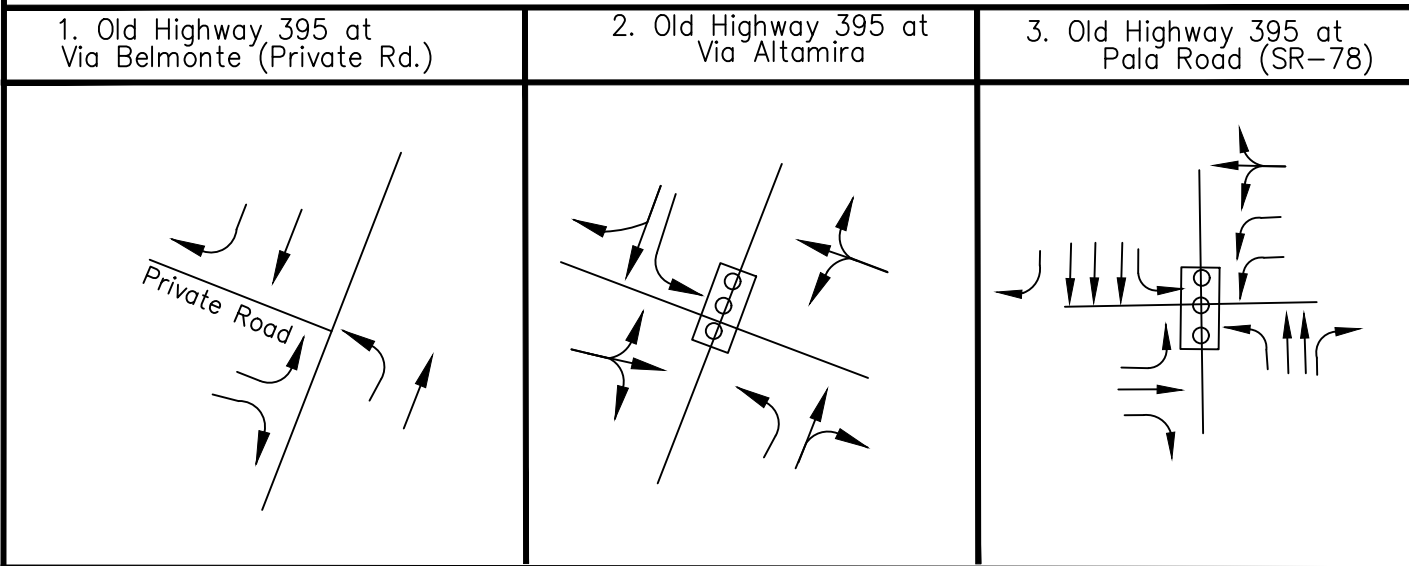
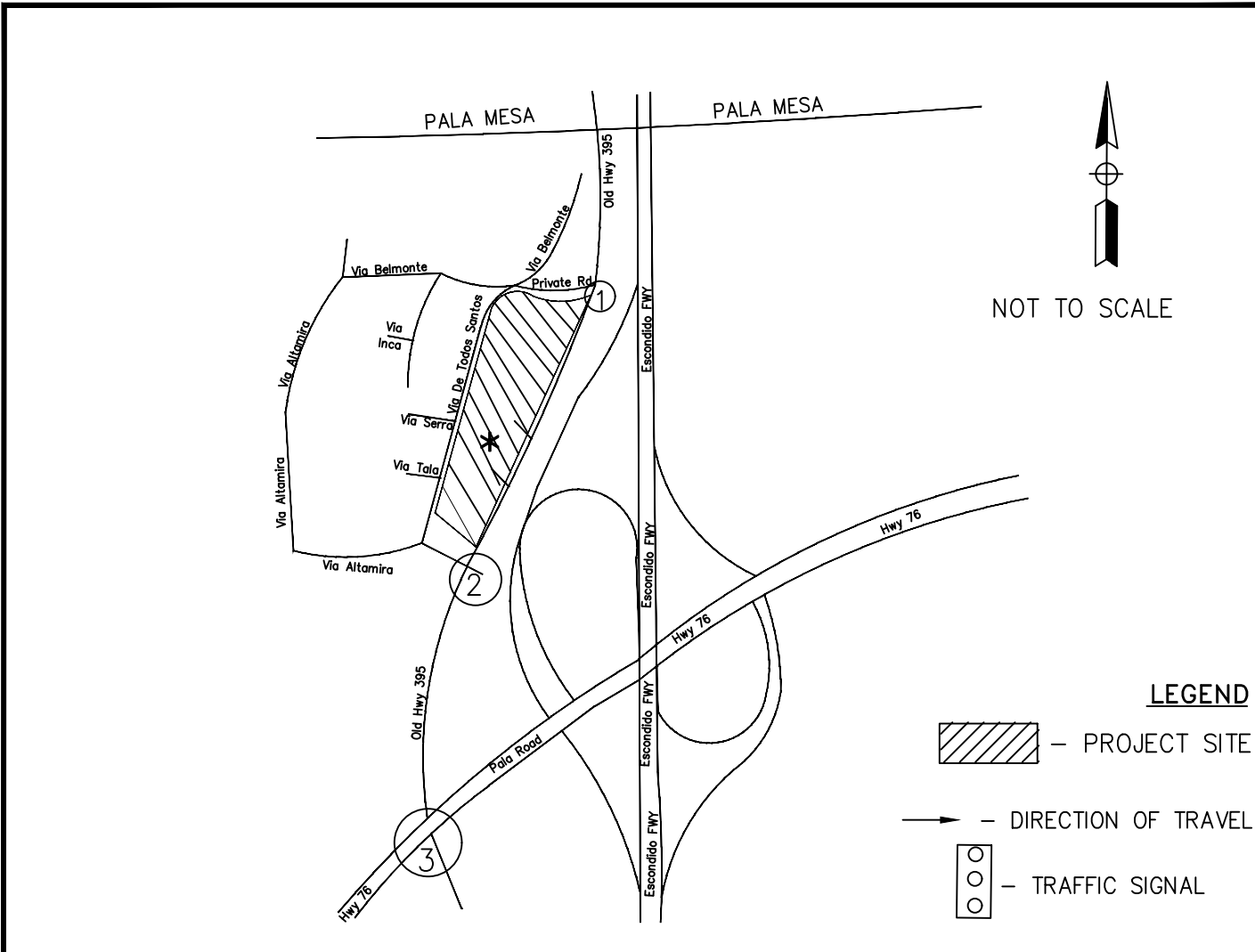
FIGURE 6
PROJECT TRIP DISTRIBUTION



1. Old Highway 395 at Via Belmonte (Private Rd.)	2. Old Highway 395 at Via Altamira	3. Old Highway 395 at Pala Road (SR-78)

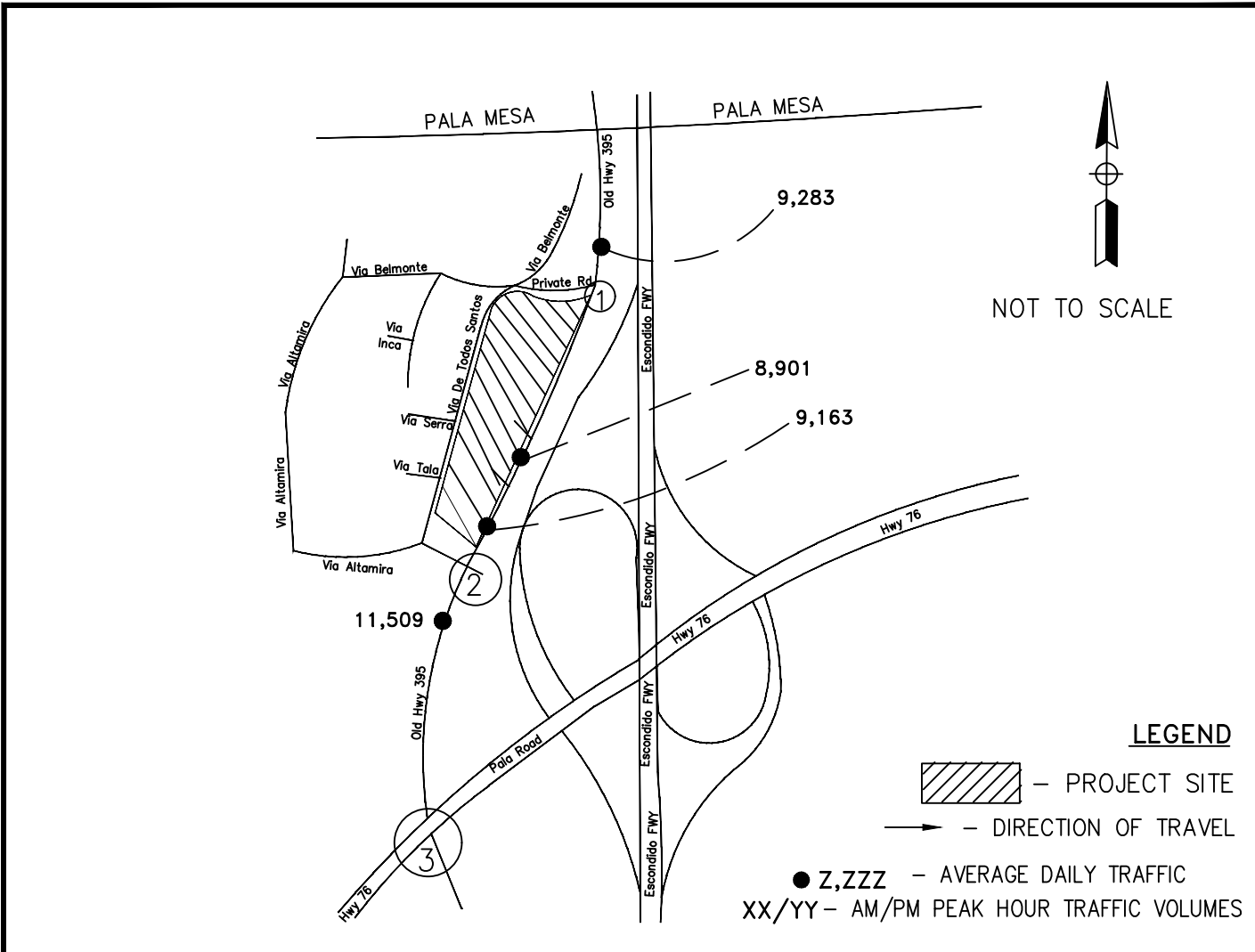
Darnell & ASSOCIATES
 191201 -AC.dwg 10-26-2021 _2050 Analysis JAM

FIGURE 7
PROJECT TRIP ASSIGNMENT



Darnell & ASSOCIATES
 191201 -AC.dwg 10-26-2021 _2050 Analysis JAM

FIGURE 8
EXISTING LANE GEOMETRICS



1. Old Highway 395 at Via Belmonte (Private Rd.)	2. Old Highway 395 at Via Altamira	3. Old Highway 395 at Pala Road (SR-78)

FIGURE 9
 EXISTING PLUS PROJECT TRAFFIC VOLUMES

Table 1 - Summary of Trip Generation Summary								
Land Use	Weekday Daily	AM PEAK		PM PEAK				
		% ADT	Rate (In:Out)	% ADT	Rate (In:Out)			
TRIP GENERATION RATES								
Gas Station w Food Mart	205 trips/vsf	12%	51:49	14%	51:49			
Specialty Store	38 trips/ksf	1%	62:38	4%	48:52			
TRIP GENERATION CALCULATIONS								
Land Use	Amount	ADT	AM Peak			PM PEAK		
			In	Out	Total	In	Out	Total
Gas Station w Food Mart	12 VFS	2,465	77	73	150	86	82	168
Specialty Store	12.0 KSF	453	8	4	12	23	23	46
Driveway Trips Total:		2,918	85	77	162	109	105	214
Less Pass-by Trips		-1,608	-52	-47	-99	-61	-57	-118
Net New Traffic		1,310	33	30	63	48	48	96
ksf = 1,000 square foot, ADT = Average Daily Traffic, VFS = Vehicle Fueling Space								
The trip rates are based on SANDAG's Brief Guide of Vehicular Trip Generation rates for the San Diego Region, April 2002.								

Table 2 – Roadway Analysis for Existing Conditions and Existing Plus Project						
Roadway Segment	Classification	LOS D Capacity	Existing 2020 Traffic	LOS	Existing 2020 plus Project Traffic	LOS
South of Via Altamira	2.1C Community Collector	13,500	10,723	D	11,509	D
Via Altamira to Via Belmonte (Private Road)	2.1C Light Collector	10,900	8,377	D	9,163	C
South of Via Belmonte (Private Road)	2.1C Light Collector	10,900	8,377	D	8,901	C
South of Pala Mesa Road	2.1C Light Collector	10,900	8,759	D	9,283	C

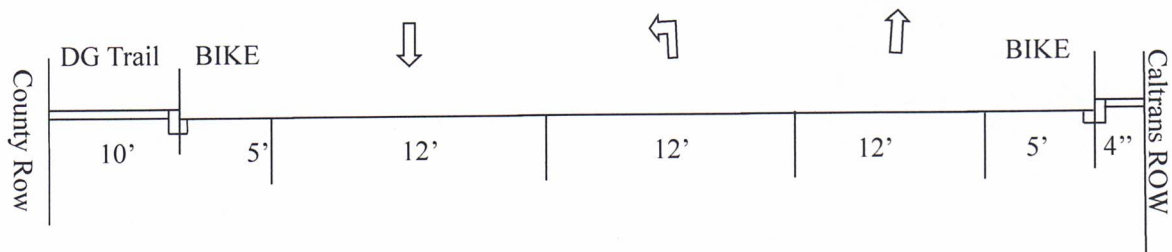
The next step in the analysis, we analyzed the year 2050 daily traffic volumes. Table 3 presents the results of the 2050 Analysis. Review of Tables 2 and 3 show the existing roadways can accommodate existing and the proposed project.

Table 3 – Year 2050 Roadway Analysis Conditions					
Roadway Segment	Classification	LOS D Capacity	Year 2020 Traffic	Year 2050 Traffic	LOS
South of Via Altamira	2.1C Community Collector	13,500	12,163	9,600	D
Via Altamira to Via Belmonte (Private Road)	2.1C Light Collector	10,900	9,817	8,000	C
South of Via Belmonte (Private Road)	2.1C Light Collector	10,900	9,337	8,000	C
South of Pala Mesa Road	2.1C Light Collector	10,900	9,719	8,000	C

Mr. Rafid Hamika
c/o: CCI
October 28, 2021
Page 12

However, based on field observations and the existing 2-lane (40-foot curb to curb) roadway adjacent to the project site with one (1) lane in each direction experiences congestion at the project driveways due to the lack of a center turn lane and vehicles parking in the bike lanes.

To improve the overall operating condition of Old Highway 395 with the addition of project traffic, it is recommended that the road be widened to maintain the existing bike lanes, provide one (1) lane in each direction and a center turn lane to accommodate left turns into the project site and bike lanes. The recommended improvements include the installation of no parking along both sides of the roadway to maintain bike lanes along Old highway 395. The recommended minimum geometrics to provide are:



Old Highway 395

In summary the above geometrics for Old Highway 395 from south of Via Altamira north to the Via Belmonte (Private Road) is recommended.

Please call if you have any questions.

Sincerely,

Darnell & Associates,

Bill E. Darnell, P.E.
RCE: 22338

BED/vls

191201 -Revised 2050 Analysis for the Fallbrook Commercial -Old Highway 395_ 10.28.21



(Date) October 28, 2021

ATTACHMENT A

- AM/PM Turn Counts
- 24-Hour Machine Counts
- Fallbrook Mobility Element Network
- SANDAG 2050 Forecast

➤ AM/PM Turn Counts

National Data & Surveying Services

Intersection Turning Movement Count

Location: Old Hwy 395 & Via Altamira
 City: Fallbrook
 Control: Signalized

Project ID: 19-04467-001
 Date: 12/10/2019

Total

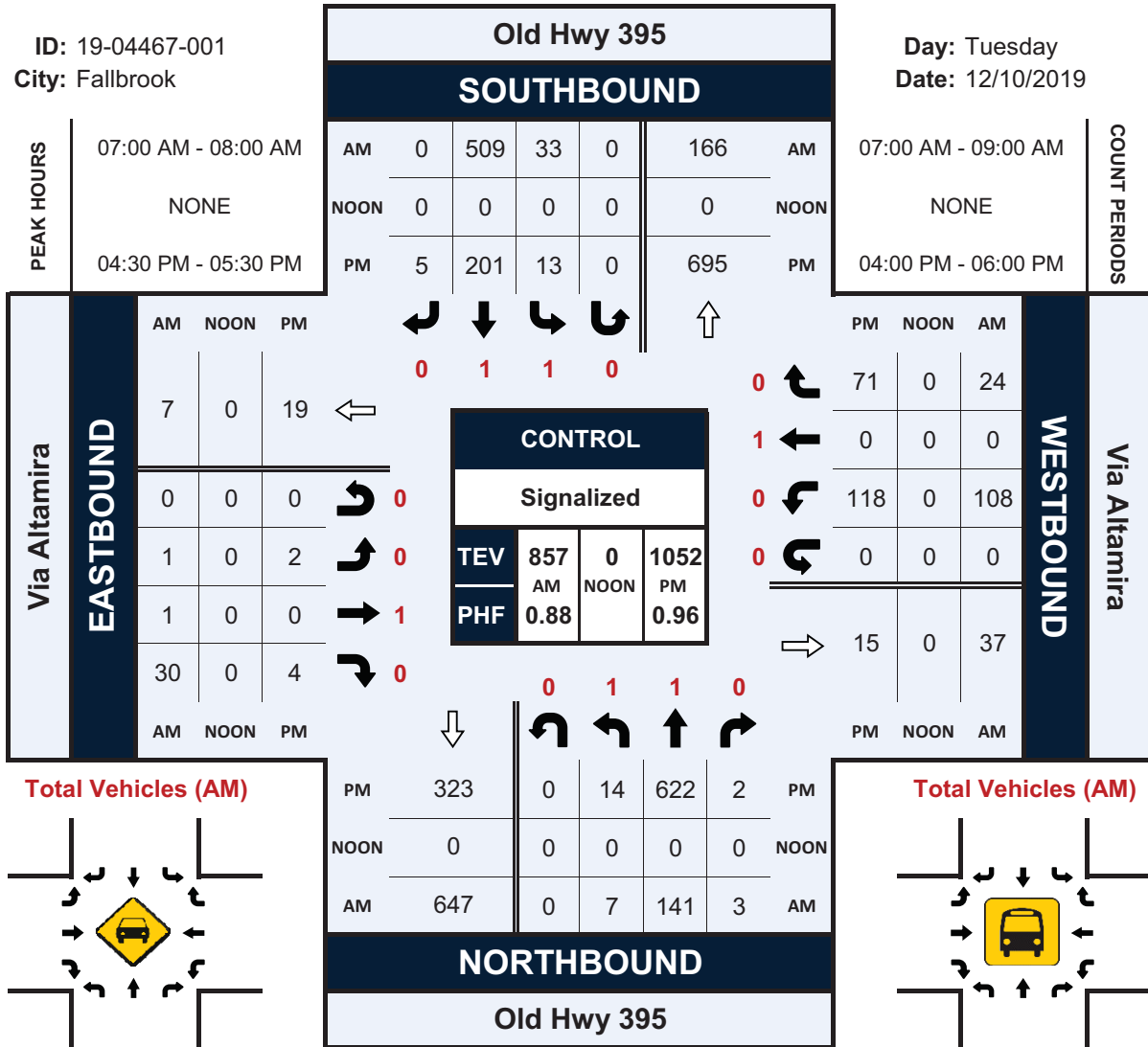
NS/EW Streets:	Old Hwy 395				Old Hwy 395				Via Altamira				Via Altamira				TOTAL
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
AM	1	1	0	0	1	1	0	0	0	1	0	0	0	1	0	0	TOTAL
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	
7:00 AM	0	25	2	0	8	138	0	0	1	0	7	0	28	0	4	0	213
7:15 AM	3	33	1	0	12	147	0	0	0	1	14	0	27	0	6	0	244
7:30 AM	3	41	0	0	3	123	0	0	0	0	6	0	27	0	5	0	208
7:45 AM	1	42	0	0	10	101	0	0	0	0	3	0	26	0	9	0	192
8:00 AM	0	36	0	0	3	74	0	0	0	0	3	0	38	0	3	0	157
8:15 AM	1	42	0	0	5	83	0	0	0	0	5	0	25	0	6	0	167
8:30 AM	1	37	1	0	2	64	0	0	0	0	3	0	28	0	8	0	144
8:45 AM	2	38	0	0	6	48	0	0	0	0	0	0	27	0	5	0	126
TOTAL VOLUMES :	11	294	4	0	49	778	0	0	1	1	41	0	226	0	46	0	1451
APPROACH %'s :	3.56%	95.15%	1.29%	0.00%	5.93%	94.07%	0.00%	0.00%	2.33%	2.33%	95.35%	0.00%	83.09%	0.00%	16.91%	0.00%	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	7	141	3	0	33	509	0	0	1	1	30	0	108	0	24	0	857
PEAK HR FACTOR :	0.583	0.839	0.375	0.000	0.688	0.866	0.000	0.000	0.250	0.250	0.536	0.000	0.964	0.000	0.667	0.000	0.878
			0.858				0.852				0.533				0.943		
PM	1	1	0	0	1	1	0	0	0	1	0	0	0	1	0	0	TOTAL
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	
4:00 PM	4	136	0	0	3	34	1	0	1	1	0	0	37	0	28	0	245
4:15 PM	2	132	0	0	3	46	1	0	0	0	4	0	28	0	16	0	232
4:30 PM	1	155	0	0	3	54	0	0	0	0	0	0	37	0	13	0	263
4:45 PM	3	150	1	0	5	49	2	0	0	0	0	0	37	0	26	0	273
5:00 PM	5	153	0	0	0	47	1	0	2	0	3	0	21	0	14	0	246
5:15 PM	5	164	1	0	5	51	2	0	0	0	1	0	23	0	18	0	270
5:30 PM	3	161	1	1	1	37	0	0	1	0	3	0	32	1	19	0	260
5:45 PM	10	143	1	0	1	35	2	0	0	0	5	0	23	0	24	0	244
TOTAL VOLUMES :	33	1194	4	1	21	353	9	0	4	1	16	0	238	1	158	0	2033
APPROACH %'s :	2.68%	96.92%	0.32%	0.08%	5.48%	92.17%	2.35%	0.00%	19.05%	4.76%	76.19%	0.00%	59.95%	0.25%	39.80%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	14	622	2	0	13	201	5	0	2	0	4	0	118	0	71	0	1052
PEAK HR FACTOR :	0.700	0.948	0.500	0.000	0.650	0.931	0.625	0.000	0.250	0.000	0.333	0.000	0.797	0.000	0.683	0.000	0.963
			0.938				0.944				0.300				0.750		

Old Hwy 395 & Via Altamira

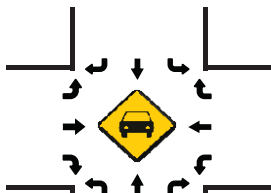
Peak Hour Turning Movement Count

ID: 19-04467-001
City: Fallbrook

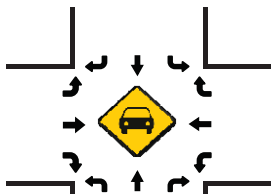
Day: Tuesday
Date: 12/10/2019



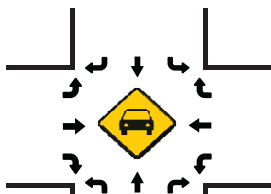
Total Vehicles (AM)



Total Vehicles (NOON)

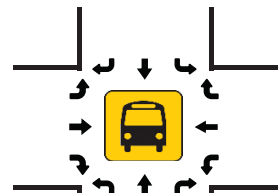


Total Vehicles (PM)

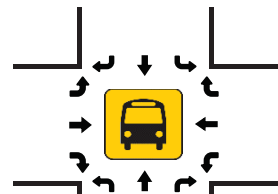


PEAK HOURS	07:00 AM - 08:00 AM	AM	0	509	33	0	166	AM	07:00 AM - 09:00 AM	COUNT PERIODS
	NONE	NOON	0	0	0	0	0	NOON	NONE	
	04:30 PM - 05:30 PM	PM	5	201	13	0	695	PM	04:00 PM - 06:00 PM	

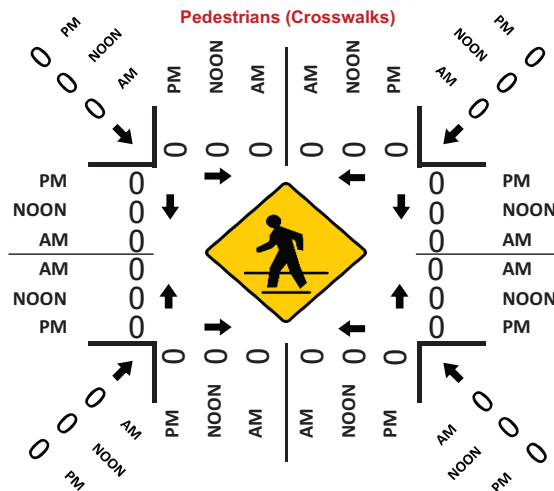
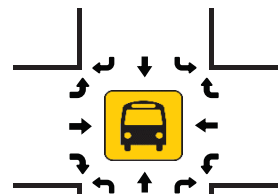
Total Vehicles (AM)



Total Vehicles (NOON)



Total Vehicles (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Old Hwy 395 & Via Belmonte
 City: Fallbrook
 Control: 1-Way Stop(EB)

Project ID: 19-04467-002
 Date: 12/10/2019

Total

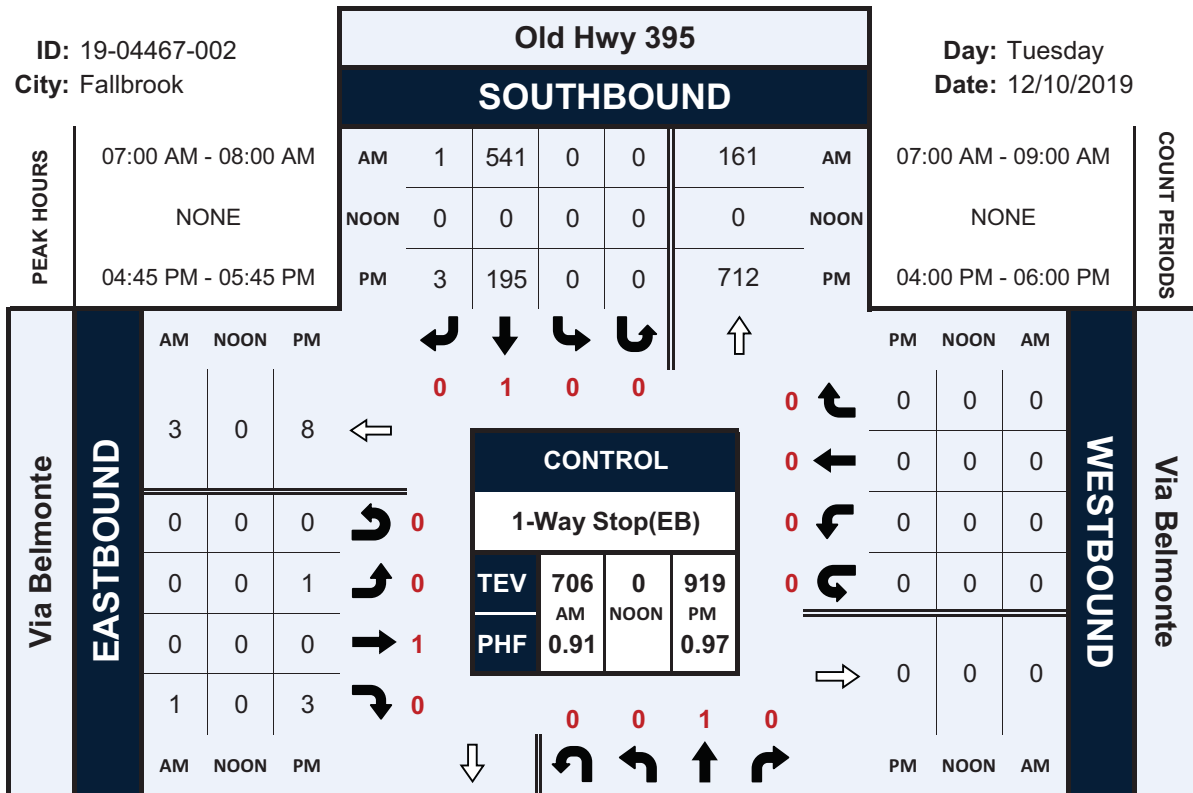
NS/EW Streets:	Old Hwy 395				Old Hwy 395				Via Belmonte				Via Belmonte				TOTAL
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
AM	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	31	0	0	0	143	1	0	0	0	1	0	0	0	0	0	176
7:15 AM	1	35	0	0	0	158	0	0	0	0	0	0	0	0	0	0	194
7:30 AM	1	46	0	0	0	128	0	0	0	0	0	0	0	0	0	0	175
7:45 AM	0	49	0	0	0	112	0	0	0	0	0	0	0	0	0	0	161
8:00 AM	1	45	0	0	0	76	1	0	1	0	0	0	0	0	0	0	124
8:15 AM	0	40	0	0	0	85	0	0	1	0	0	0	0	0	0	0	126
8:30 AM	3	35	0	0	0	64	0	1	2	0	0	0	0	0	0	0	105
8:45 AM	1	48	0	0	0	51	0	0	1	0	1	0	0	0	0	0	102
TOTAL VOLUMES :	7	329	0	0	0	817	2	1	5	0	2	0	0	0	0	0	1163
APPROACH %'s :	2.08%	97.92%	0.00%	0.00%	0.00%	99.63%	0.24%	0.12%	71.43%	0.00%	28.57%	0.00%	0.00%	0.00%	0.00%	0.00%	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	2	161	0	0	0	541	1	0	0	0	1	0	0	0	0	0	706
PEAK HR FACTOR :	0.500	0.821	0.000	0.000	0.000	0.856	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.910
	0.832				0.858				0.250								
PM	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	159	0	0	0	44	0	0	0	0	0	0	0	0	0	0	203
4:15 PM	0	141	0	0	0	42	1	0	0	0	0	0	0	0	0	0	184
4:30 PM	3	169	0	0	0	55	0	0	0	0	0	0	0	0	0	0	227
4:45 PM	1	176	0	1	0	50	0	0	0	0	0	0	0	0	0	0	228
5:00 PM	2	164	0	0	0	50	1	0	1	0	2	0	0	0	0	0	220
5:15 PM	1	176	0	0	0	55	1	0	0	0	0	0	0	0	0	0	233
5:30 PM	1	195	0	0	0	40	1	0	0	0	1	0	0	0	0	0	238
5:45 PM	0	161	0	0	0	36	0	0	2	0	0	0	0	0	0	0	199
TOTAL VOLUMES :	8	1341	0	1	0	372	4	0	3	0	3	0	0	0	0	0	1732
APPROACH %'s :	0.59%	99.33%	0.00%	0.07%	0.00%	98.94%	1.06%	0.00%	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	5	711	0	1	0	195	3	0	1	0	3	0	0	0	0	0	919
PEAK HR FACTOR :	0.625	0.912	0.000	0.250	0.000	0.886	0.750	0.000	0.250	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.965
	0.915				0.884				0.333								

Old Hwy 395 & Via Belmonte

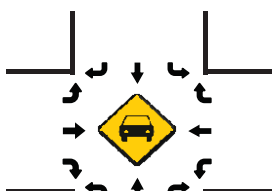
Peak Hour Turning Movement Count

ID: 19-04467-002
City: Fallbrook

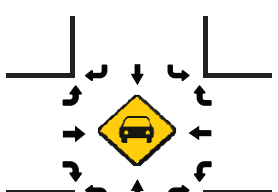
Day: Tuesday
Date: 12/10/2019



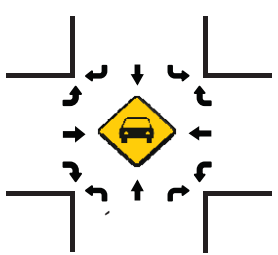
Total Vehicles (AM)



Total Vehicles (NOON)

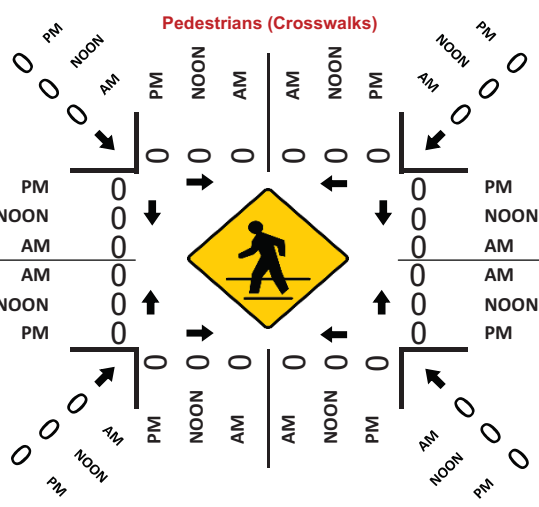


Total Vehicles (PM)

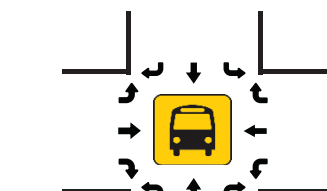


PM	199	1	5	711	0	PM
NOON	0	0	0	0	0	NOON
AM	542	0	2	161	0	AM

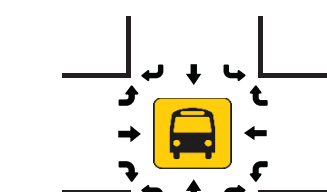
Old Hwy 395 NORTHBOUND



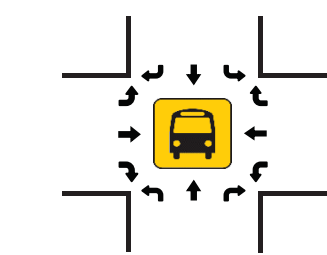
Total Vehicles (AM)



Total Vehicles (NOON)



Total Vehicles (PM)



➤ 24-Hour Machine Counts

VOLUME

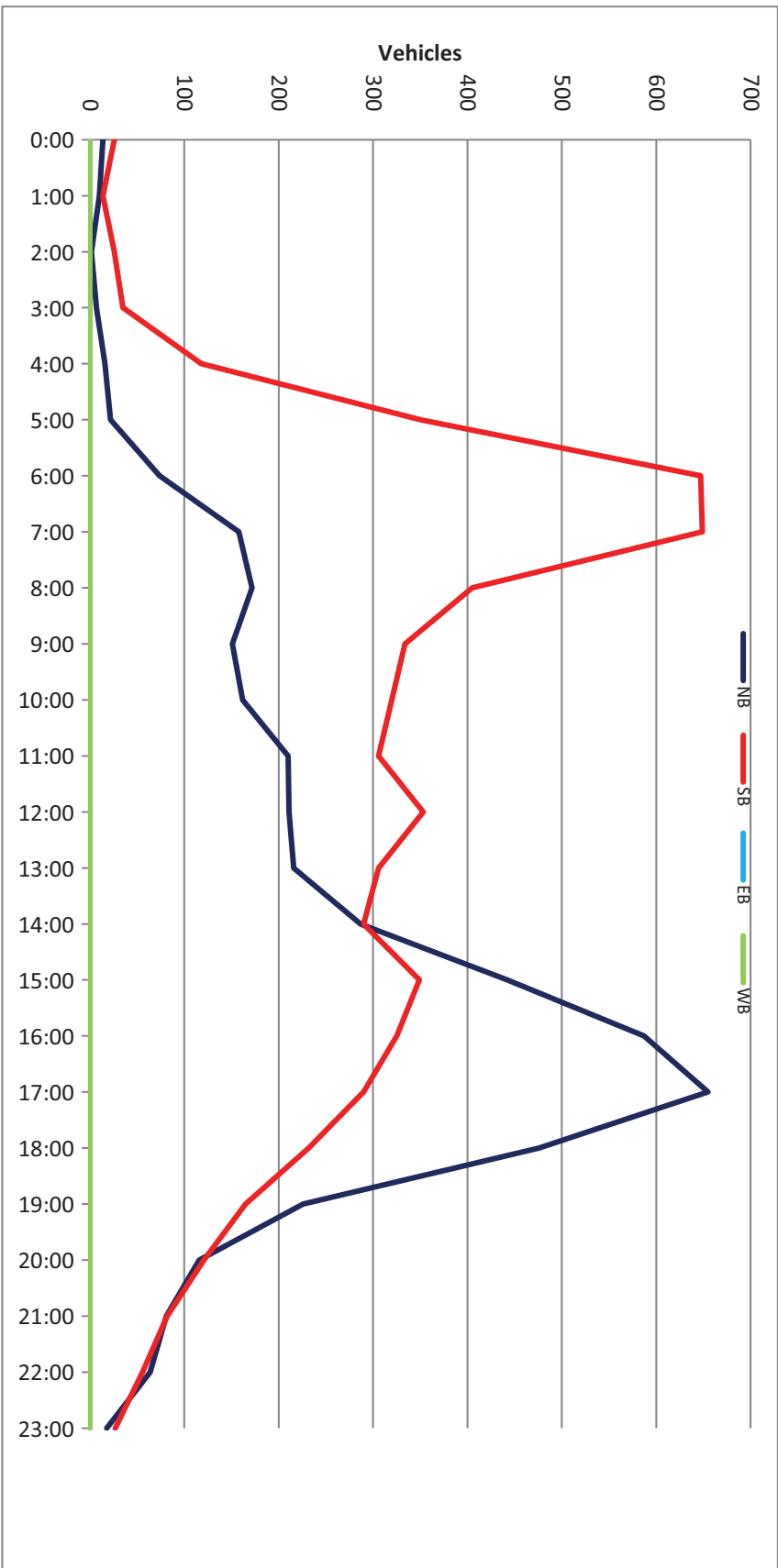
Old Hwy 395 Bet. Pala Rd & Vía Altamira

Day: Tuesday
Date: 12/10/2019

City: Fallbrook
Project #: CA19_4466_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,377	5,826	0	0	10,203		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	5	9			14	12:00	44	93			137
0:15	5	7			12	12:15	57	75			132
0:30	1	6			7	12:30	54	92			146
0:45	3	14	4	26	47	12:45	56	211	93	353	613
1:00	4	7			11	13:00	58	70			128
1:15	1	5			6	13:15	46	64			110
1:30	1	0			1	13:30	62	83			145
1:45	4	10	2	14	26	13:45	50	216	89	306	661
2:00	0	9			9	14:00	54	73			127
2:15	1	5			6	14:15	71	65			136
2:30	1	7			8	14:30	70	73			143
2:45	0	2	5	26	33	14:45	92	287	79	290	648
3:00	1	4			5	15:00	92	80			172
3:15	2	9			11	15:15	99	91			190
3:30	2	12			14	15:30	119	90			209
3:45	2	7	10	35	54	15:45	132	442	88	349	811
4:00	5	14			19	16:00	133	75			208
4:15	4	29			33	16:15	140	76			216
4:30	4	31			35	16:30	162	94			256
4:45	3	16	44	118	173	16:45	152	587	80	325	1064
5:00	3	57			60	17:00	160	72			232
5:15	2	88			90	17:15	171	73			244
5:30	8	105			113	17:30	167	79			246
5:45	9	22	100	350	381	17:45	157	655	66	290	1168
6:00	19	152			171	18:00	134	55			189
6:15	11	161			172	18:15	116	60			176
6:30	19	155			174	18:30	118	60			178
6:45	25	74	179	647	925	18:45	108	476	57	232	873
7:00	34	178			212	19:00	98	42			140
7:15	31	182			213	19:15	53	52			105
7:30	49	156			205	19:30	40	36			76
7:45	44	158	133	649	984	19:45	35	226	35	165	461
8:00	37	115			152	20:00	26	30			56
8:15	45	114			159	20:15	34	33			67
8:30	40	96			136	20:30	37	39			76
8:45	50	172	80	405	707	20:45	19	116	19	121	375
9:00	39	80			119	21:00	25	33			58
9:15	39	73			112	21:15	11	16			27
9:30	33	101			134	21:30	27	18			45
9:45	40	151	80	334	595	21:45	18	81	15	82	196
10:00	37	76			113	22:00	25	14			39
10:15	43	79			122	22:15	14	17			31
10:30	45	84			129	22:30	18	18			36
10:45	37	162	81	320	599	22:45	7	64	7	56	128
11:00	54	75			129	23:00	3	8			11
11:15	65	75			140	23:15	3	1			4
11:30	47	77			124	23:30	8	9			17
11:45	44	210	79	306	639	23:45	4	18	9	27	58
TOTALS	998	3230			4228	TOTALS	3379	2596			5975
SPLIT %	23.6%	76.4%			41.4%	SPLIT %	56.6%	43.4%			58.6%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,377	5,826	0	0	10,203		
AM Peak Hour	11:00	6:45			6:45	PM Peak Hour	17:00	12:00	16:30		
AM Pk Volume	210	695			834	PM Pk Volume	655	353	964		
Pk Hr Factor	0.808	0.955			0.979	Pk Hr Factor	0.958	0.949	0.941		
7 - 9 Volume	330	1054	0	0	1384	4 - 6 Volume	1242	615	0	0	1857
7 - 9 Peak Hour	7:30	7:00			7:00	4 - 6 Peak Hour	17:00	16:00			16:30
7 - 9 Pk Volume	175	649	0	0	807	4 - 6 Pk Volume	655	325	0	0	964
Pk Hr Factor	0.893	0.891	0.000	0.000	0.947	Pk Hr Factor	0.958	0.864	0.000	0.000	0.941



VOLUME

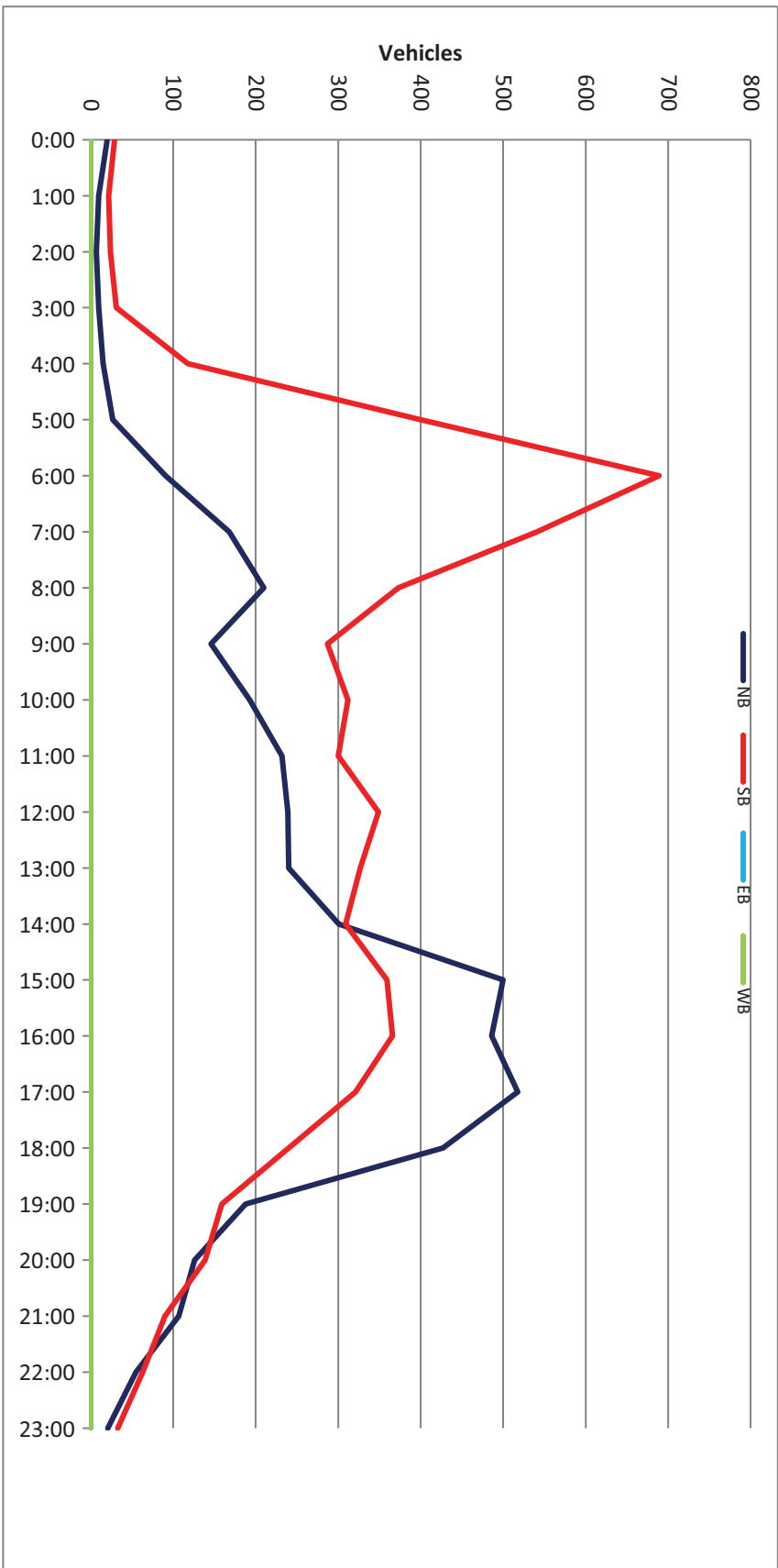
Old Hwy 395 Bet. Pala Rd & Vía Altamira

Day: Wednesday
Date: 12/11/2019

City: Fallbrook
Project #: CA19_4466_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,337	5,881	0	0	10,218		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	6	4			10	12:00	64	86			150
0:15	9	10			19	12:15	49	83			132
0:30	2	9			11	12:30	65	90			155
0:45	3	20	6	29	9	12:45	61	239	90	349	588
1:00	1	5			6	13:00	64	97			161
1:15	6	5			11	13:15	55	62			117
1:30	1	8			9	13:30	67	80			147
1:45	2	10	4	22	6	13:45	54	240	88	327	567
2:00	3	9			12	14:00	64	82			146
2:15	3	6			9	14:15	62	68			130
2:30	1	5			6	14:30	78	85			163
2:45	0	7	4	24	4	14:45	97	301	74	309	610
3:00	2	8			10	15:00	101	91			192
3:15	6	7			13	15:15	109	90			199
3:30	2	7			9	15:30	160	91			251
3:45	0	10	9	31	9	15:45	130	500	87	359	859
4:00	2	19			21	16:00	120	105			225
4:15	8	23			31	16:15	108	77			185
4:30	4	30			34	16:30	131	91			222
4:45	1	15	46	118	47	16:45	127	486	93	366	852
5:00	4	61			65	17:00	123	90			213
5:15	4	92			96	17:15	121	91			212
5:30	9	117			126	17:30	138	71			209
5:45	10	27	130	400	140	17:45	136	518	69	321	839
6:00	16	158			174	18:00	134	64			198
6:15	15	182			197	18:15	117	74			191
6:30	31	167			198	18:30	104	47			151
6:45	29	91	182	689	211	18:45	72	427	55	240	667
7:00	34	150			184	19:00	60	46			106
7:15	35	149			184	19:15	49	43			92
7:30	44	125			169	19:30	45	34			79
7:45	55	168	117	541	172	19:45	34	188	36	159	347
8:00	57	103			160	20:00	33	39			72
8:15	53	99			152	20:15	35	38			73
8:30	53	94			147	20:30	28	25			53
8:45	47	210	77	373	124	20:45	30	126	37	139	265
9:00	41	61			102	21:00	31	36			67
9:15	29	82			111	21:15	29	17			46
9:30	32	68			100	21:30	22	18			40
9:45	44	146	76	287	120	21:45	25	107	19	90	197
10:00	56	71			127	22:00	11	16			27
10:15	40	76			116	22:15	25	22			47
10:30	56	100			156	22:30	10	11			21
10:45	41	193	65	312	106	22:45	9	55	14	63	118
11:00	56	76			132	23:00	5	8			13
11:15	53	82			135	23:15	5	10			15
11:30	46	75			121	23:30	7	10			17
11:45	77	232	67	300	144	23:45	4	21	5	33	54
TOTALS	1129	3126			4255	TOTALS	3208	2755			5963
SPLIT %	26.5%	73.5%			41.6%	SPLIT %	53.8%	46.2%			58.4%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,337	5,881	0	0	10,218		
AM Peak Hour	11:45	6:00		6:15	PM Peak Hour	17:15	15:15		15:15		
AM Pk Volume	255	689		790	PM Pk Volume	529	373		892		
Pk Hr Factor	0.828	0.946		0.936	Pk Hr Factor	0.958	0.888		0.888		
7 - 9 Volume	378	914	0	0	1292	4 - 6 Volume	1004	687	0	0	1691
7 - 9 Peak Hour	7:45	7:00		7:00	4 - 6 Peak Hour	17:00	16:00				16:30
7 - 9 Pk Volume	218	541	0	0	709	4 - 6 Pk Volume	518	366	0	0	867
Pk Hr Factor	0.956	0.902	0.000	0.000	0.963	Pk Hr Factor	0.938	0.871	0.000	0.000	0.976



VOLUME

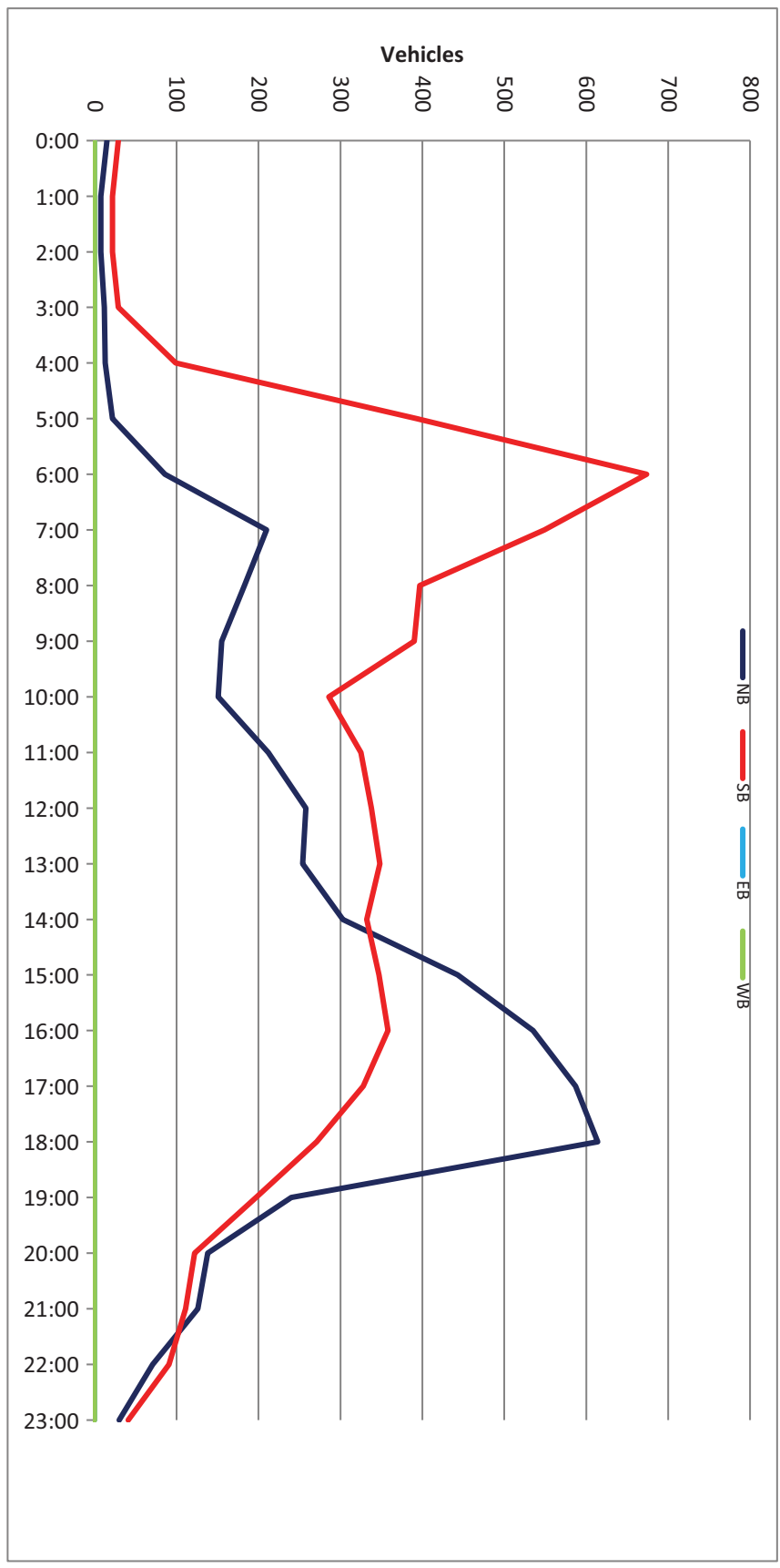
Old Hwy 395 Bet. Pala Rd & Vía Altamira

Day: Thursday
Date: 12/12/2019

City: Fallbrook
Project #: CA19_4466_001

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,674	6,099	0	0	10,773		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	2	9			11	12:00	71	76			147
0:15	3	10			13	12:15	71	79			150
0:30	3	5			8	12:30	56	88			144
0:45	7	15	5	29	12	12:45	60	258	95	338	596
1:00	3	6			9	13:00	67	82			149
1:15	3	7			10	13:15	67	98			165
1:30	1	4			5	13:30	67	84			151
1:45	1	8	5	22	6	13:45	53	254	84	348	602
2:00	4	5			9	14:00	68	66			134
2:15	1	6			7	14:15	77	98			175
2:30	1	6			7	14:30	69	77			146
2:45	2	8	5	22	7	14:45	89	303	91	332	635
3:00	1	6			7	15:00	79	74			153
3:15	4	10			14	15:15	119	88			207
3:30	2	7			9	15:30	130	85			215
3:45	5	12	6	29	11	15:45	115	443	100	347	790
4:00	5	13			18	16:00	111	101			212
4:15	2	21			23	16:15	124	84			208
4:30	5	27			32	16:30	139	93			232
4:45	1	13	38	99	39	16:45	161	535	80	358	893
5:00	2	66			68	17:00	137	93			230
5:15	3	96			99	17:15	158	104			262
5:30	11	117			128	17:30	136	74			210
5:45	6	22	114	393	120	17:45	156	587	57	328	915
6:00	14	175			189	18:00	174	75			249
6:15	27	182			209	18:15	150	83			233
6:30	29	156			185	18:30	169	63			232
6:45	16	86	161	674	177	18:45	121	614	50	271	885
7:00	31	139			170	19:00	97	43			140
7:15	49	183			232	19:15	64	47			111
7:30	76	111			187	19:30	35	47			82
7:45	54	210	116	549	170	19:45	44	240	60	197	437
8:00	44	81			125	20:00	40	34			74
8:15	49	113			162	20:15	46	29			75
8:30	43	110			153	20:30	25	23			48
8:45	47	183	93	397	140	20:45	27	138	36	122	260
9:00	40	98			138	21:00	34	26			60
9:15	35	86			121	21:15	38	31			69
9:30	36	101			137	21:30	26	31			57
9:45	44	155	105	390	149	21:45	28	126	23	111	237
10:00	34	85			119	22:00	25	24			49
10:15	40	62			102	22:15	19	24			43
10:30	43	82			125	22:30	12	17			29
10:45	34	151	57	286	91	22:45	15	71	26	91	162
11:00	46	77			123	23:00	5	10			15
11:15	53	80			133	23:15	11	15			26
11:30	62	96			158	23:30	3	9			12
11:45	51	212	72	325	123	23:45	11	30	7	41	71
TOTALS	1075	3215			4290	TOTALS	3599	2884			6483
SPLIT %	25.1%	74.9%			39.8%	SPLIT %	55.5%	44.5%			60.2%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,674	6,099	0	0	10,773		
AM Peak Hour	11:30	6:00		6:45	PM Peak Hour	17:45	15:45		16:30		
AM Pk Volume	255	674		766	PM Pk Volume	649	378		965		
Pk Hr Factor	0.898	0.926		0.825	Pk Hr Factor	0.932	0.936		0.921		
7 - 9 Volume	393	946	0	0	1339	4 - 6 Volume	1122	686	0	0	1808
7 - 9 Peak Hour	7:15	7:00		7:00	4 - 6 Peak Hour	16:30	16:30				16:30
7 - 9 Pk Volume	223	549	0	0	759	4 - 6 Pk Volume	595	370	0	0	965
Pk Hr Factor	0.734	0.750	0.000	0.000	0.818	Pk Hr Factor	0.924	0.889	0.000	0.000	0.921



VOLUME

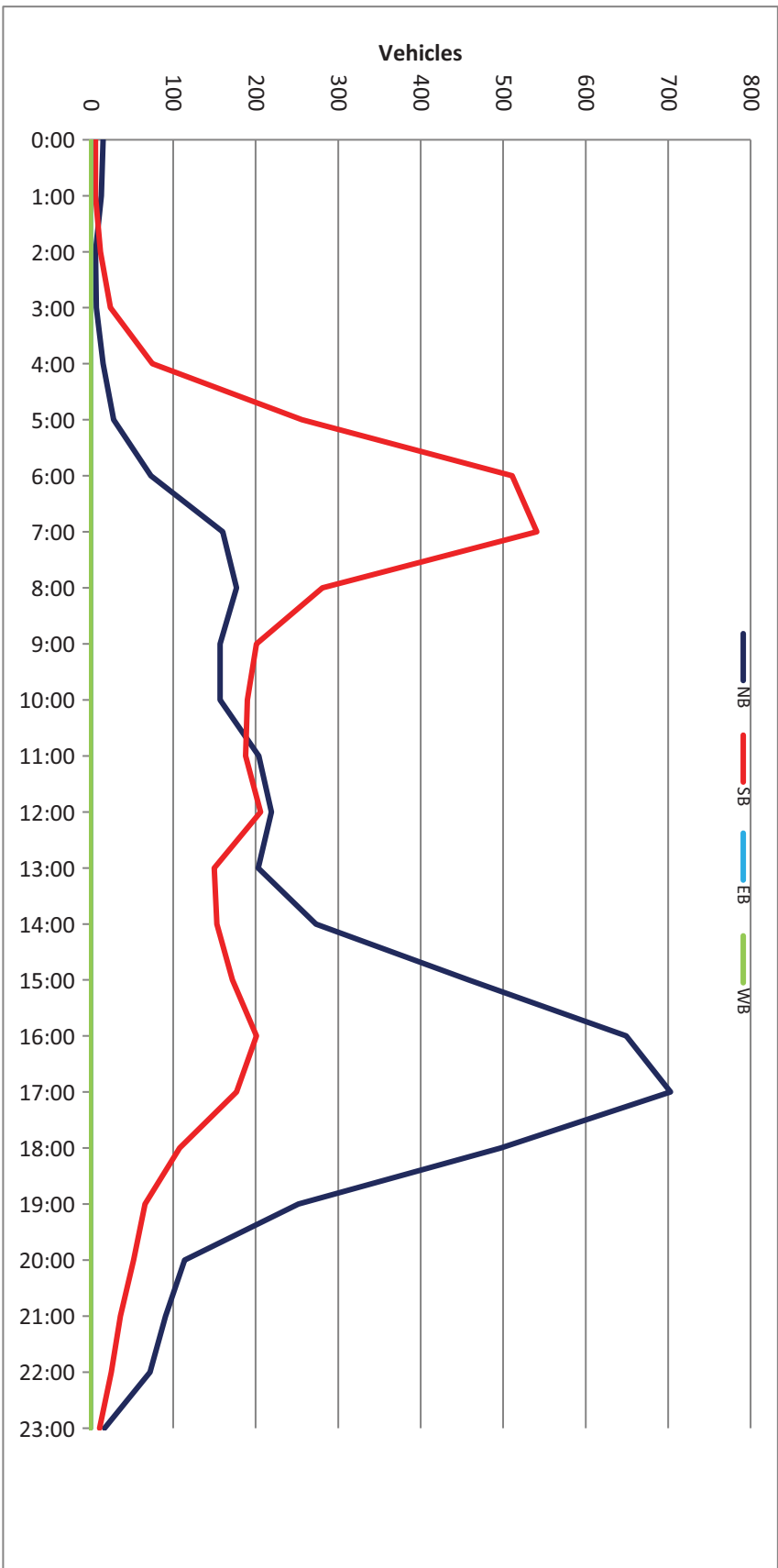
Old Hwy 395 Bet. Vía Altamira & Vía Belmonte

Day: Tuesday
Date: 12/10/2019

City: Fallbrook
Project #: CA19_4466_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,560	3,648	0	0	8,208		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	3	0			3	12:00	47	59			106
0:15	7	3			10	12:15	70	42			112
0:30	2	2			4	12:30	47	52			99
0:45	3	15	1	6	4	12:45	55	219	53	206	108
1:00	5	1			6	13:00	60	28			88
1:15	2	1			3	13:15	40	42			82
1:30	1	0			1	13:30	54	39			93
1:45	5	13	4	6	9	13:45	49	203	41	150	90
2:00	2	3			5	14:00	53	46			99
2:15	2	3			5	14:15	65	29			94
2:30	1	4			5	14:30	66	42			108
2:45	1	6	2	12	3	14:45	89	273	36	153	125
3:00	1	4			5	15:00	104	37			141
3:15	2	6			8	15:15	94	43			137
3:30	2	5			7	15:30	129	52			181
3:45	2	7	9	24	11	15:45	131	458	40	172	171
4:00	4	5			9	16:00	164	38			202
4:15	3	22			25	16:15	140	52			192
4:30	5	21			26	16:30	176	50			226
4:45	3	15	27	75	30	16:45	169	649	61	201	230
5:00	4	40			44	17:00	171	41			212
5:15	4	65			69	17:15	175	62			237
5:30	6	75			81	17:30	195	35			230
5:45	14	28	76	256	90	17:45	162	703	39	177	201
6:00	18	124			142	18:00	137	28			165
6:15	12	133			145	18:15	126	29			155
6:30	20	107			127	18:30	117	34			151
6:45	23	73	147	511	170	18:45	117	497	17	108	134
7:00	32	143			175	19:00	110	20			130
7:15	32	167			199	19:15	53	21			74
7:30	42	122			164	19:30	53	16			69
7:45	54	160	109	541	163	19:45	36	252	9	66	45
8:00	40	82			122	20:00	24	14			38
8:15	43	82			125	20:15	28	14			42
8:30	47	57			104	20:30	40	15			55
8:45	47	177	60	281	107	20:45	22	114	9	52	31
9:00	41	55			96	21:00	25	12			37
9:15	39	38			77	21:15	14	11			25
9:30	32	59			91	21:30	31	4			35
9:45	45	157	49	201	94	21:45	21	91	9	36	30
10:00	37	43			80	22:00	29	8			37
10:15	42	52			94	22:15	15	7			22
10:30	41	50			91	22:30	19	6			25
10:45	37	157	45	190	82	22:45	9	72	4	25	13
11:00	48	49			97	23:00	3	4			7
11:15	64	36			100	23:15	3	0			3
11:30	46	52			98	23:30	7	5			12
11:45	46	204	51	188	97	23:45	4	17	2	11	6
TOTALS	1012	2291			3303	TOTALS	3548	1357			4905
SPLIT %	30.6%	69.4%			40.2%	SPLIT %	72.3%	27.7%			59.8%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,560	3,648	0	0	8,208		
AM Peak Hour	11:45	6:45		6:45	PM Peak Hour	16:45	16:30		16:45		
AM Pk Volume	210	579		708	PM Pk Volume	710	214		909		
Pk Hr Factor	0.750	0.867		0.889	Pk Hr Factor	0.910	0.863		0.959		
7 - 9 Volume	337	822	0	0	1159	4 - 6 Volume	1352	378	0	0	1730
7 - 9 Peak Hour	7:45	7:00		7:00	4 - 6 Peak Hour	16:45	16:30				16:45
7 - 9 Pk Volume	184	541	0	0	701	4 - 6 Pk Volume	710	214	0	0	909
Pk Hr Factor	0.852	0.810	0.000	0.000	0.881	Pk Hr Factor	0.910	0.863	0.000	0.000	0.959



VOLUME

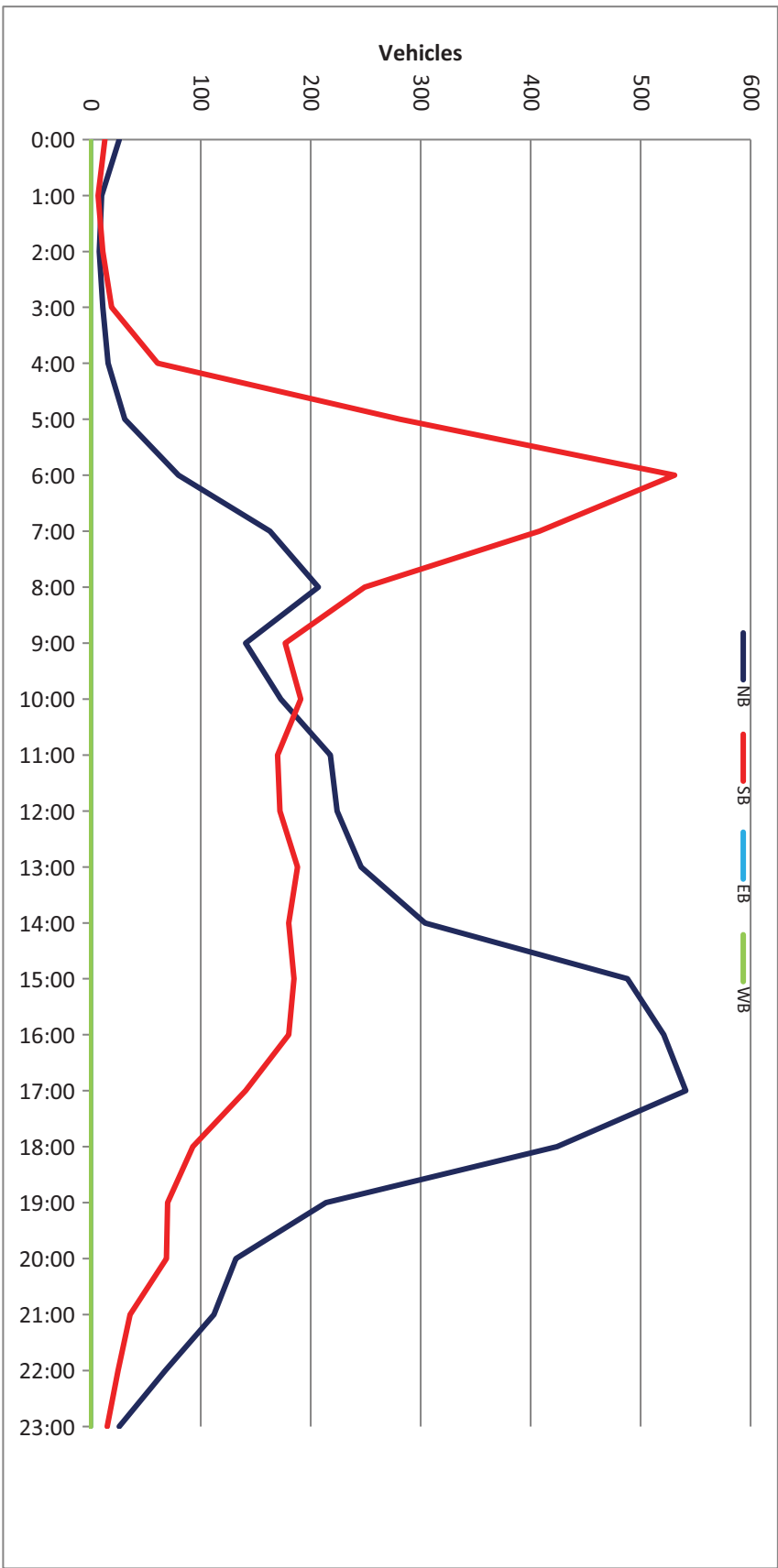
Old Hwy 395 Bet. Vía Altamira & Vía Belmonte

Day: Wednesday
Date: 12/11/2019

City: Fallbrook
Project #: CA19_4466_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,384	3,472	0	0	7,856		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	6	3			9	12:00	58	47			105
0:15	11	4			15	12:15	51	41			92
0:30	4	5			9	12:30	62	40			102
0:45	5	26	1	13	6	12:45	53	224	44	172	97
1:00	1	2			3	13:00	66	68			134
1:15	5	2			7	13:15	60	31			91
1:30	2	2			4	13:30	69	52			121
1:45	2	10	1	7	3	13:45	51	246	37	188	88
2:00	2	4			6	14:00	66	52			118
2:15	2	1			3	14:15	69	40			109
2:30	1	4			5	14:30	77	43			120
2:45	3	8	2	11	5	14:45	92	304	45	180	137
3:00	5	6			11	15:00	101	53			154
3:15	2	4			6	15:15	104	45			149
3:30	4	5			9	15:30	159	37			196
3:45	0	11	4	19	4	15:45	124	488	50	185	174
4:00	2	8			10	16:00	135	55			190
4:15	6	21			27	16:15	120	40			160
4:30	6	7			13	16:30	138	46			184
4:45	2	16	25	61	27	16:45	128	521	39	180	167
5:00	6	41			47	17:00	128	40			168
5:15	5	64			69	17:15	129	46			175
5:30	9	87			96	17:30	150	28			178
5:45	11	31	89	281	100	17:45	134	541	27	141	161
6:00	13	126			139	18:00	133	29			162
6:15	13	138			151	18:15	124	24			148
6:30	24	124			148	18:30	98	17			115
6:45	30	80	143	531	173	18:45	69	424	23	93	92
7:00	34	125			159	19:00	70	21			91
7:15	30	124			154	19:15	55	17			72
7:30	44	94			138	19:30	48	13			61
7:45	55	163	65	408	120	19:45	41	214	19	70	60
8:00	62	66			128	20:00	38	20			58
8:15	49	74			123	20:15	33	17			50
8:30	50	60			110	20:30	26	12			38
8:45	46	207	49	249	95	20:45	35	132	20	69	55
9:00	45	39			84	21:00	34	12			46
9:15	32	46			78	21:15	30	7			37
9:30	29	38			67	21:30	25	7			32
9:45	35	141	54	177	89	21:45	23	112	10	36	33
10:00	45	37			82	22:00	20	8			28
10:15	39	42			81	22:15	26	8			34
10:30	44	71			115	22:30	14	5			19
10:45	45	173	41	191	86	22:45	8	68	4	25	12
11:00	47	40			87	23:00	7	4			11
11:15	62	46			108	23:15	6	4			10
11:30	48	49			97	23:30	8	3			11
11:45	61	218	35	170	96	23:45	5	26	4	15	9
TOTALS	1084	2118			3202	TOTALS	3300	1354			4654
SPLIT %	33.9%	66.1%			40.8%	SPLIT %	70.9%	29.1%			59.2%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,384	3,472	0	0	7,856		
AM Peak Hour	11:45	6:00		6:30	PM Peak Hour	17:15	12:45		15:30		
AM Pk Volume	232	531		634	PM Pk Volume	546	195		720		
Pk Hr Factor	0.935	0.928		0.916	Pk Hr Factor	0.910	0.717		0.918		
7 - 9 Volume	370	657	0	0	1027	4 - 6 Volume	1062	321	0	0	1383
7 - 9 Peak Hour	7:45	7:00		7:00	4 - 6 Peak Hour	17:00	16:00				16:00
7 - 9 Pk Volume	216	408	0	0	571	4 - 6 Pk Volume	541	180	0	0	701
Pk Hr Factor	0.871	0.816	0.000	0.000	0.898	Pk Hr Factor	0.902	0.818	0.000	0.000	0.922



VOLUME

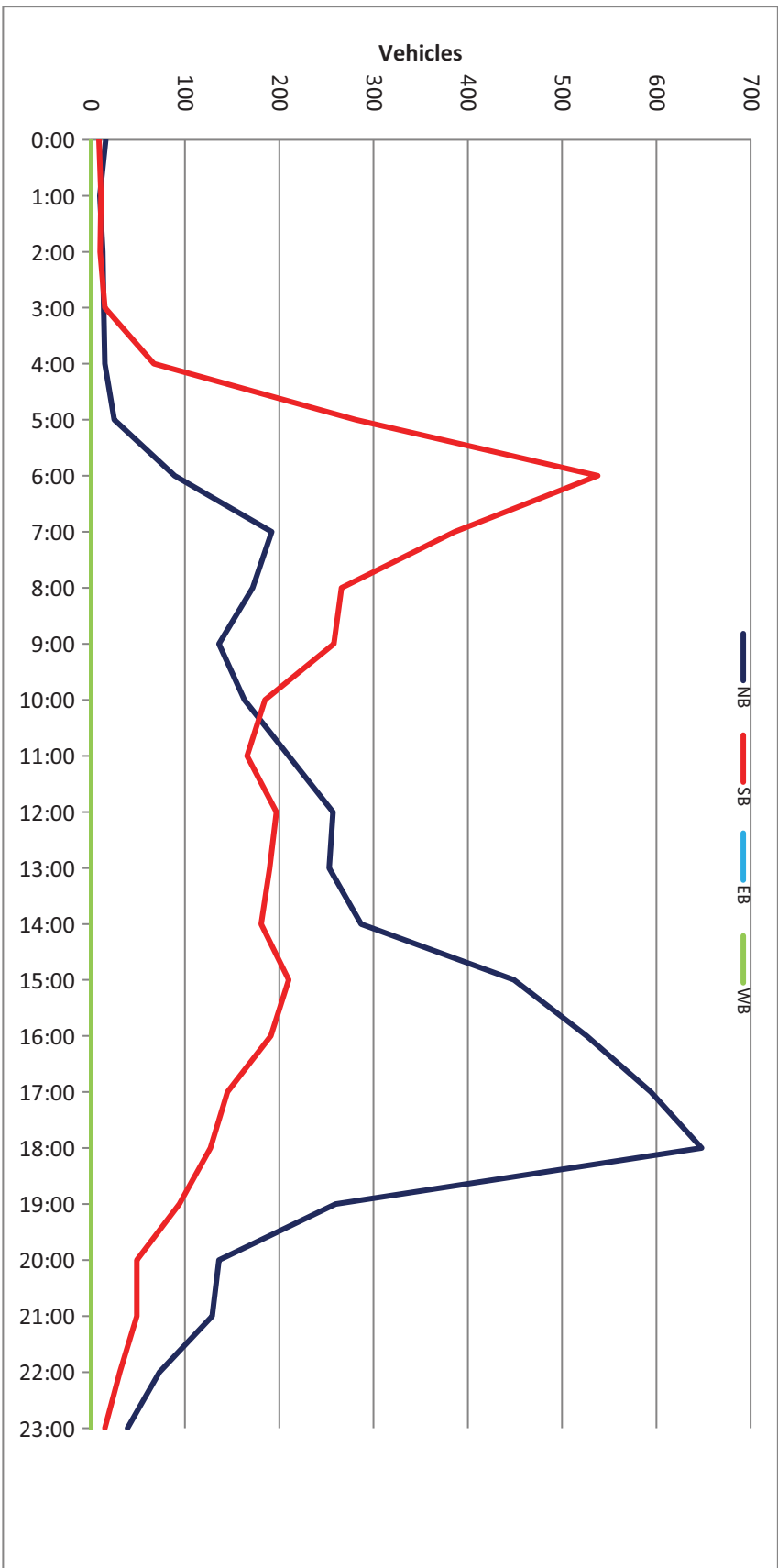
Old Hwy 395 Bet. Vía Altamira & Vía Belmonte

Day: Thursday
Date: 12/12/2019

City: Fallbrook
Project #: CA19_4466_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,706	3,671	0	0	8,377		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	3	1			4	12:00	67	51			118
0:15	3	2			5	12:15	73	47			120
0:30	4	3			7	12:30	53	46			99
0:45	6	16	3	9	9	12:45	64	257	53	197	117
1:00	5	4			9	13:00	63	47			110
1:15	4	2			6	13:15	59	56			115
1:30	1	3			4	13:30	68	46			114
1:45	0	10	2	11	2	13:45	63	253	41	190	104
2:00	5	3			8	14:00	63	44			107
2:15	4	1			5	14:15	76	50			126
2:30	2	3			5	14:30	68	44			112
2:45	2	13	3	10	5	14:45	80	287	43	181	123
3:00	2	3			5	15:00	75	35			110
3:15	5	5			10	15:15	121	52			173
3:30	2	3			5	15:30	130	58			188
3:45	5	14	4	15	9	15:45	123	449	65	210	188
4:00	4	6			10	16:00	107	54			161
4:15	2	19			21	16:15	117	54			171
4:30	7	14			21	16:30	150	47			197
4:45	2	15	28	67	30	16:45	152	526	36	191	188
5:00	1	37			38	17:00	139	38			177
5:15	3	65			68	17:15	164	48			212
5:30	13	91			104	17:30	124	36			160
5:45	8	25	88	281	96	17:45	167	594	23	145	190
6:00	16	140			156	18:00	186	29			215
6:15	23	151			174	18:15	165	38			203
6:30	32	123			155	18:30	174	37			211
6:45	18	89	124	538	142	18:45	123	648	23	127	146
7:00	27	101			128	19:00	107	26			133
7:15	48	125			173	19:15	67	23			90
7:30	72	86			158	19:30	39	18			57
7:45	45	192	74	386	119	19:45	47	260	27	94	74
8:00	43	57			100	20:00	42	14			56
8:15	40	86			126	20:15	46	13			59
8:30	51	68			119	20:30	24	5			29
8:45	38	172	55	266	93	20:45	24	136	17	49	41
9:00	33	62			95	21:00	35	14			49
9:15	35	60			95	21:15	36	12			48
9:30	31	70			101	21:30	29	17			46
9:45	37	136	66	258	103	21:45	29	129	6	49	35
10:00	39	45			84	22:00	26	11			37
10:15	43	47			90	22:15	19	8			27
10:30	43	51			94	22:30	13	7			20
10:45	38	163	42	185	80	22:45	15	73	5	31	20
11:00	44	48			92	23:00	12	6			18
11:15	48	40			88	23:15	12	4			16
11:30	61	44			105	23:30	3	2			5
11:45	57	210	34	166	91	23:45	12	39	3	15	15
TOTALS	1055	2192			3247	TOTALS	3651	1479			5130
SPLIT %	32.5%	67.5%			38.8%	SPLIT %	71.2%	28.8%			61.2%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,706	3,671	0	0	8,377		
AM Peak Hour	11:30	6:00		6:00	PM Peak Hour	17:45	15:30		17:45		
AM Pk Volume	258	538		627	PM Pk Volume	692	231		819		
Pk Hr Factor	0.884	0.891		0.901	Pk Hr Factor	0.930	0.888		0.952		
7 - 9 Volume	364	652	0	0	1016	4 - 6 Volume	1120	336	0	0	1456
7 - 9 Peak Hour	7:15	7:00		7:00	4 - 6 Peak Hour	16:30	16:00				16:30
7 - 9 Pk Volume	208	386	0	0	578	4 - 6 Pk Volume	605	191	0	0	774
Pk Hr Factor	0.722	0.772	0.000	0.000	0.835	Pk Hr Factor	0.922	0.884	0.000	0.000	0.913



VOLUME

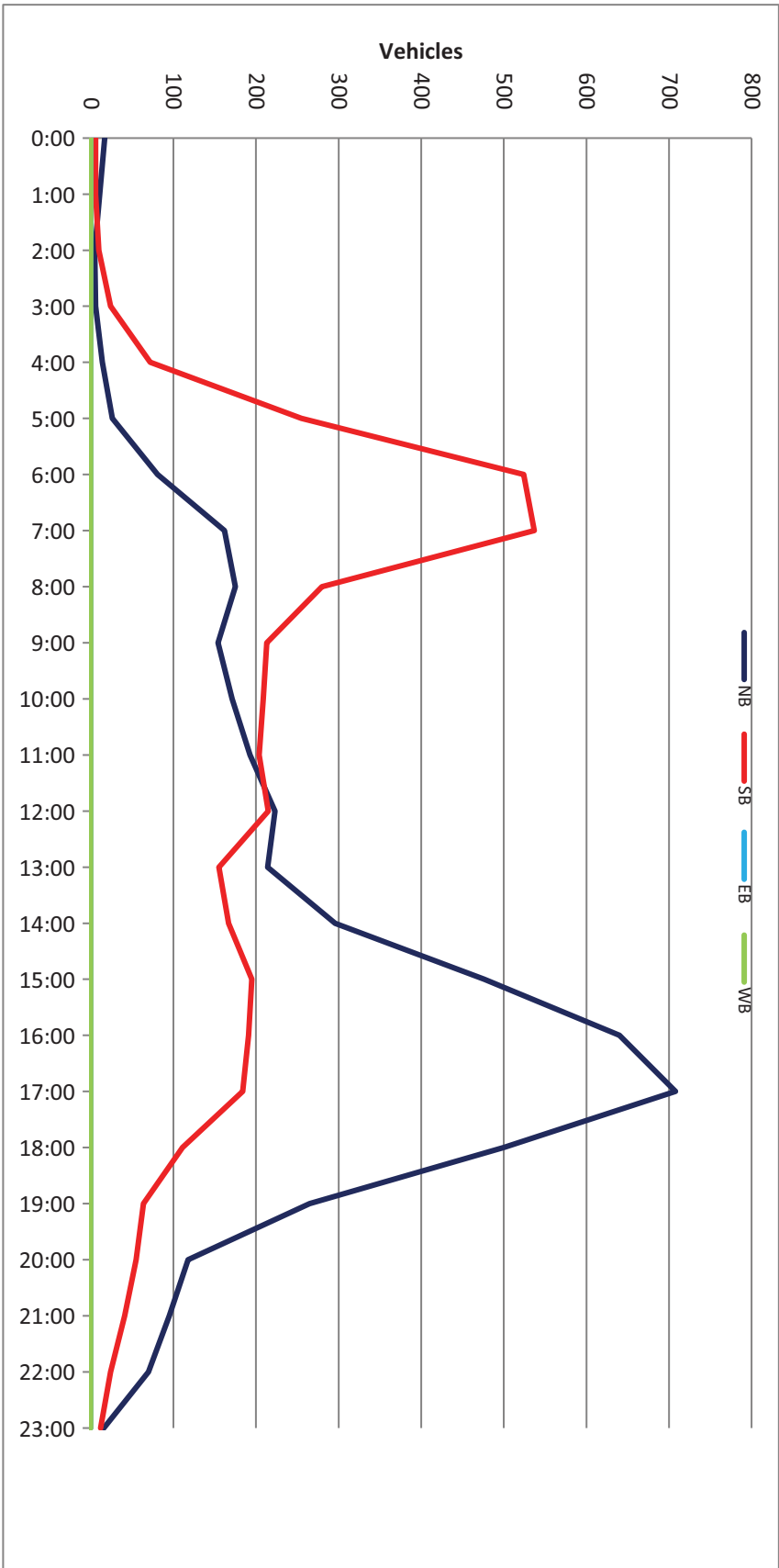
Old Hwy 395 N/O Via Belmonte

Day: Tuesday
Date: 12/10/2019

City: Fallbrook
Project #: CA19_4466_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,636	3,754	0	0	8,390		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	5	0			5	12:00	46	60			106
0:15	7	3			10	12:15	76	47			123
0:30	2	2			4	12:30	48	54			102
0:45	3	17	1	6	4	12:45	53	223	54	215	107
1:00	4	2			6	13:00	59	29			88
1:15	2	0			2	13:15	43	43			86
1:30	1	0			1	13:30	62	39			101
1:45	4	11	4	6	8	13:45	50	214	44	155	94
2:00	1	2			3	14:00	59	48			107
2:15	2	3			5	14:15	77	39			116
2:30	1	4			5	14:30	69	42			111
2:45	1	5	1	10	2	14:45	91	296	38	167	129
3:00	1	4			5	15:00	106	43			149
3:15	2	5			7	15:15	105	47			152
3:30	2	6			8	15:30	131	59			190
3:45	1	6	9	24	10	15:45	134	476	46	195	180
4:00	3	6			9	16:00	156	40			196
4:15	2	21			23	16:15	145	47			192
4:30	6	19			25	16:30	167	51			218
4:45	3	14	26	72	29	16:45	172	640	53	191	225
5:00	4	40			44	17:00	162	55			217
5:15	4	64			68	17:15	184	52			236
5:30	2	74			76	17:30	190	44			234
5:45	16	26	77	255	93	17:45	172	708	33	184	205
6:00	21	125			146	18:00	137	26			163
6:15	10	137			147	18:15	120	36			156
6:30	20	109			129	18:30	124	33			157
6:45	30	81	153	524	183	18:45	119	500	16	111	135
7:00	31	140			171	19:00	118	20			138
7:15	34	161			195	19:15	53	18			71
7:30	49	122			171	19:30	53	15			68
7:45	48	162	114	537	162	19:45	41	265	11	64	52
8:00	45	80			125	20:00	26	15			41
8:15	43	84			127	20:15	28	14			42
8:30	41	60			101	20:30	40	16			56
8:45	46	175	56	280	102	20:45	24	118	10	55	34
9:00	44	54			98	21:00	26	13			39
9:15	32	41			73	21:15	13	10			23
9:30	33	67			100	21:30	33	7			40
9:45	45	154	51	213	96	21:45	23	95	11	41	34
10:00	36	49			85	22:00	30	8			38
10:15	46	56			102	22:15	14	6			20
10:30	50	54			104	22:30	18	6			24
10:45	39	171	50	209	89	22:45	8	70	4	24	12
11:00	47	52			99	23:00	4	4			8
11:15	55	43			98	23:15	2	0			2
11:30	48	52			100	23:30	7	5			12
11:45	43	193	57	204	100	23:45	3	16	3	12	6
TOTALS	1015	2340			3355	TOTALS	3621	1414			5035
SPLIT %	30.3%	69.7%			40.0%	SPLIT %	71.9%	28.1%			60.0%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,636	3,754	0	0	8,390		
AM Peak Hour	11:30	6:45		6:45	PM Peak Hour	16:45	12:00		16:45		
AM Pk Volume	213	576		720	PM Pk Volume	708	215		912		
Pk Hr Factor	0.701	0.894		0.923	Pk Hr Factor	0.932	0.896		0.966		
7 - 9 Volume	337	817	0	0	1154	4 - 6 Volume	1348	375	0	0	1723
7 - 9 Peak Hour	7:30	7:00		7:00	4 - 6 Peak Hour	16:45	16:30				16:45
7 - 9 Pk Volume	185	537	0	0	699	4 - 6 Pk Volume	708	211	0	0	912
Pk Hr Factor	0.944	0.834	0.000	0.000	0.896	Pk Hr Factor	0.932	0.959	0.000	0.000	0.966



VOLUME

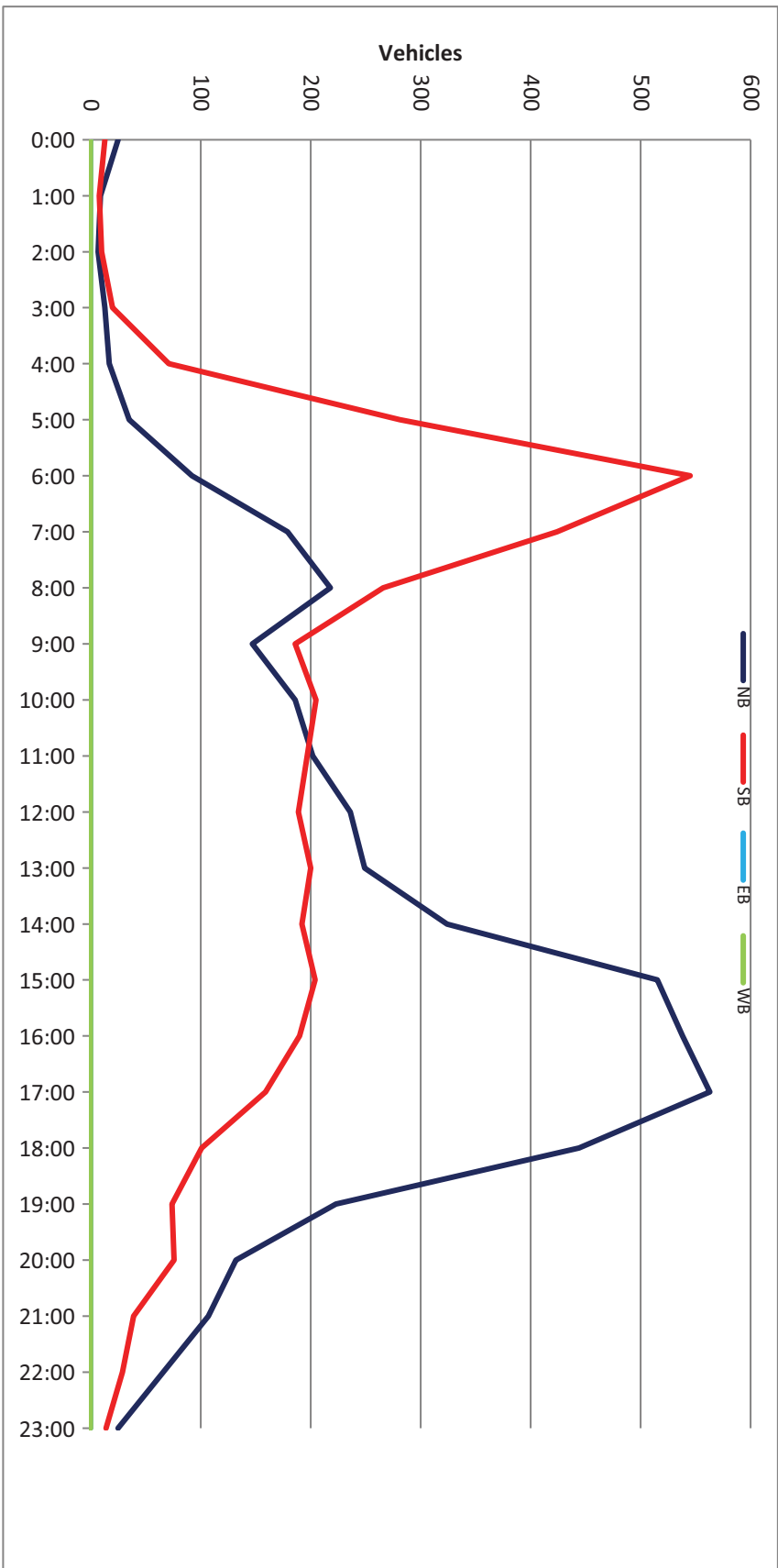
Old Hwy 395 N/O Via Belmonte

Day: Wednesday
Date: 12/11/2019

City: Fallbrook
Project #: CA19_4466_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,552	3,693	0	0	8,245		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	7	1			8	12:00	63	51			114
0:15	10	5			15	12:15	50	41			91
0:30	4	5			9	12:30	68	42			110
0:45	4	25	2	13	6	12:45	55	236	55	189	110
1:00	1	2			3	13:00	59	65			124
1:15	5	2			7	13:15	61	42			103
1:30	1	2			3	13:30	74	54			128
1:45	2	9	2	8	4	13:45	55	249	39	200	94
2:00	1	3			4	14:00	69	63			132
2:15	2	1			3	14:15	67	40			107
2:30	0	4			4	14:30	91	44			135
2:45	4	7	2	10	6	14:45	97	324	45	192	142
3:00	4	6			10	15:00	104	52			156
3:15	1	5			6	15:15	117	47			164
3:30	8	5			13	15:30	168	47			215
3:45	0	13	4	20	4	15:45	126	515	58	204	184
4:00	1	8			9	16:00	142	59			201
4:15	8	21			29	16:15	123	45			168
4:30	6	18			24	16:30	140	45			185
4:45	2	17	24	71	26	16:45	133	538	41	190	174
5:00	6	40			46	17:00	123	50			173
5:15	4	70			74	17:15	135	46			181
5:30	12	79			91	17:30	160	34			194
5:45	13	35	92	281	105	17:45	145	563	29	159	174
6:00	15	131			146	18:00	139	30			169
6:15	15	138			153	18:15	121	27			148
6:30	27	127			154	18:30	113	23			136
6:45	35	92	149	545	184	18:45	71	444	21	101	92
7:00	41	126			167	19:00	69	19			88
7:15	34	126			160	19:15	58	17			75
7:30	47	101			148	19:30	49	16			65
7:45	57	179	71	424	128	19:45	47	223	22	74	69
8:00	63	70			133	20:00	38	22			60
8:15	55	77			132	20:15	35	18			53
8:30	56	64			120	20:30	26	15			41
8:45	44	218	55	266	99	20:45	33	132	21	76	54
9:00	49	44			93	21:00	33	14			47
9:15	29	47			76	21:15	27	7			34
9:30	33	42			75	21:30	24	8			32
9:45	36	147	53	186	89	21:45	23	107	10	39	33
10:00	44	38			82	22:00	19	9			28
10:15	44	46			90	22:15	25	10			35
10:30	54	75			129	22:30	15	5			20
10:45	44	186	46	205	90	22:45	7	66	5	29	12
11:00	44	50			94	23:00	8	3			11
11:15	58	56			114	23:15	6	4			10
11:30	46	51			97	23:30	6	3			9
11:45	54	202	40	197	94	23:45	5	25	4	14	9
TOTALS	1130	2226			3356	TOTALS	3422	1467			4889
SPLIT %	33.7%	66.3%			40.7%	SPLIT %	70.0%	30.0%			59.3%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,552	3,693	0	0	8,245		
AM Peak Hour	11:45	6:00		6:30	PM Peak Hour	17:15	12:45		15:30		
AM Pk Volume	235	545		665	PM Pk Volume	579	216		768		
Pk Hr Factor	0.864	0.914		0.904	Pk Hr Factor	0.905	0.831		0.893		
7 - 9 Volume	397	690	0	0	1087	4 - 6 Volume	1101	349	0	0	1450
7 - 9 Peak Hour	7:45	7:00		7:00	4 - 6 Peak Hour	17:00	16:00				16:00
7 - 9 Pk Volume	231	424	0	0	603	4 - 6 Pk Volume	563	190	0	0	728
Pk Hr Factor	0.917	0.841	0.000	0.000	0.903	Pk Hr Factor	0.880	0.805	0.000	0.000	0.905



VOLUME

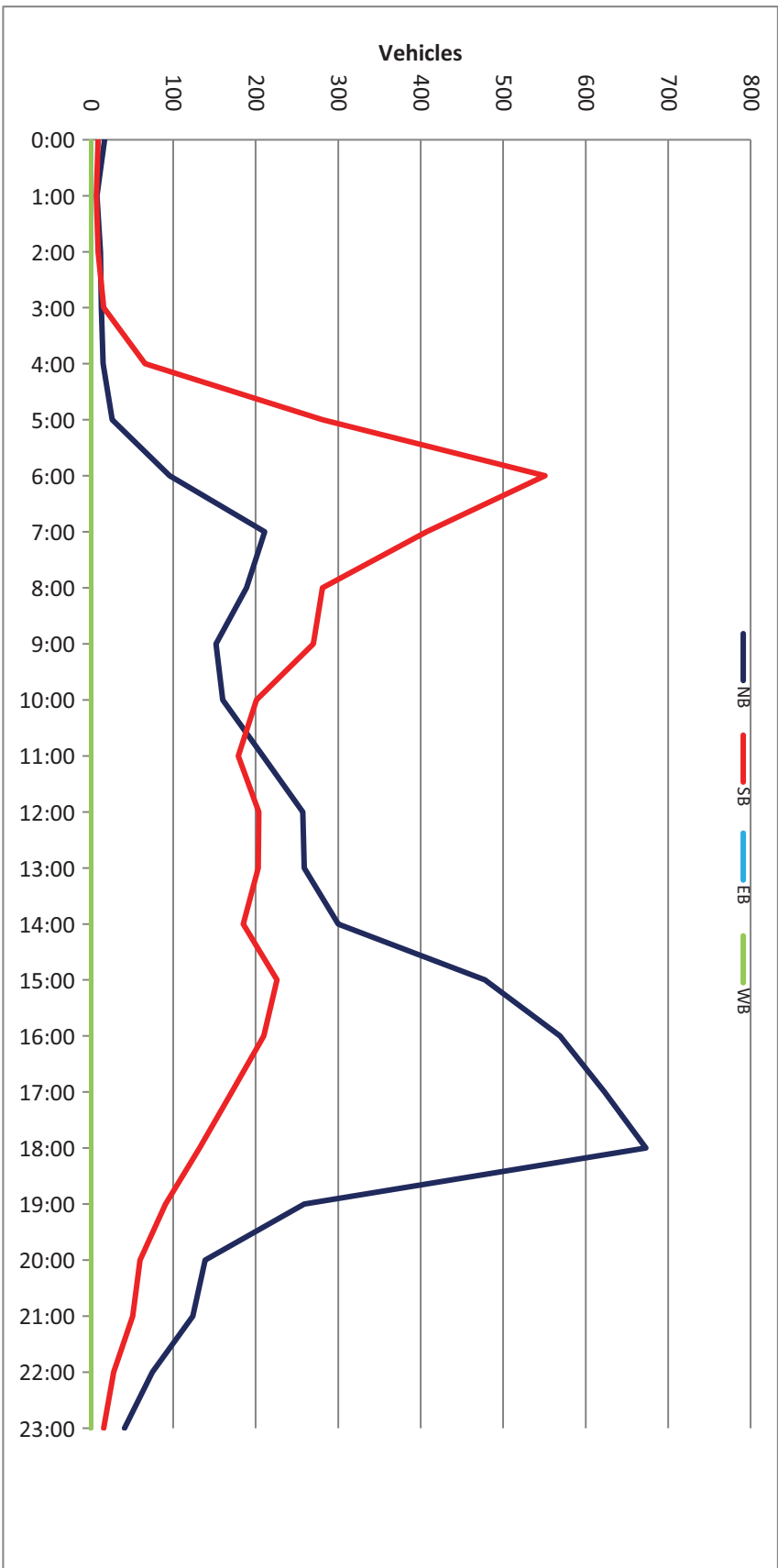
Old Hwy 395 N/O Via Belmonte

Day: Thursday
Date: 12/12/2019

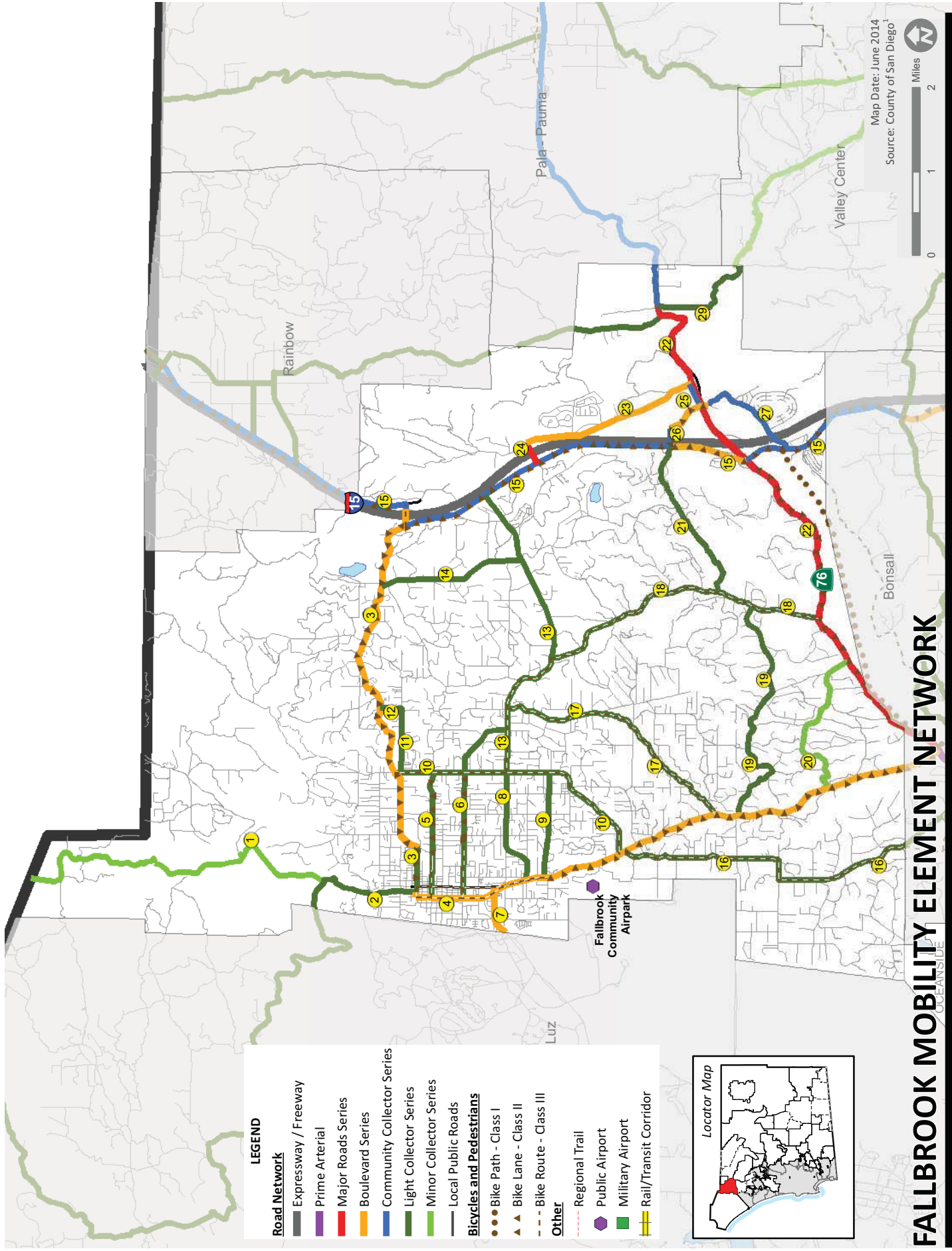
City: Fallbrook
Project #: CA19_4466_003

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,905	3,854	0	0	8,759		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
0:00	5	1			6	12:00	68	45			113
0:15	3	2			5	12:15	66	52			118
0:30	4	3			7	12:30	52	51			103
0:45	5	17	3	9	8	12:45	71	257	56	204	127
1:00	4	0			4	13:00	63	49			112
1:15	3	2			5	13:15	64	55			119
1:30	1	3			4	13:30	72	49			121
1:45	0	8	2	7	2	13:45	60	259	50	203	110
2:00	5	2			7	14:00	67	46			113
2:15	4	1			5	14:15	77	48			125
2:30	1	3			4	14:30	72	51			123
2:45	2	12	3	9	5	14:45	84	300	40	185	124
3:00	2	3			5	15:00	82	41			123
3:15	4	6			10	15:15	121	53			174
3:30	2	3			5	15:30	140	61			201
3:45	5	13	4	16	9	15:45	135	478	71	226	206
4:00	4	6			10	16:00	119	55			174
4:15	2	19			21	16:15	135	55			190
4:30	6	14			20	16:30	152	56			208
4:45	3	15	27	66	30	16:45	163	569	44	210	207
5:00	1	38			39	17:00	150	44			194
5:15	4	66			70	17:15	163	54			217
5:30	12	87			99	17:30	136	45			181
5:45	9	26	90	281	99	17:45	174	623	28	171	202
6:00	17	143			160	18:00	195	31			226
6:15	23	154			177	18:15	168	42			210
6:30	30	128			158	18:30	174	33			207
6:45	26	96	126	551	152	18:45	136	673	26	132	162
7:00	35	110			145	19:00	103	24			127
7:15	51	125			176	19:15	66	22			88
7:30	78	92			170	19:30	44	19			63
7:45	47	211	80	407	127	19:45	46	259	26	91	72
8:00	49	62			111	20:00	38	17			55
8:15	40	93			133	20:15	51	13			64
8:30	58	67			125	20:30	25	10			35
8:45	42	189	59	281	101	20:45	25	139	20	60	45
9:00	32	67			99	21:00	34	15			49
9:15	45	67			112	21:15	36	11			47
9:30	36	69			105	21:30	28	18			46
9:45	39	152	67	270	106	21:45	26	124	7	51	33
10:00	38	54			92	22:00	29	11			40
10:15	42	48			90	22:15	18	8			26
10:30	43	50			93	22:30	13	6			19
10:45	37	160	49	201	86	22:45	15	75	3	28	18
11:00	42	53			95	23:00	11	6			17
11:15	50	42			92	23:15	11	5			16
11:30	59	47			106	23:30	8	2			10
11:45	58	209	37	179	95	23:45	11	41	3	16	14
TOTALS	1108	2277			3385	TOTALS	3797	1577			5374
SPLIT %	32.7%	67.3%			38.6%	SPLIT %	70.7%	29.3%			61.4%

DAILY TOTALS					NB	SB	EB	WB	Total		
					4,905	3,854	0	0	8,759		
AM Peak Hour	11:30	6:00		6:00	PM Peak Hour	17:45	15:30		17:45		
AM Pk Volume	251	551		647	PM Pk Volume	711	242		845		
Pk Hr Factor	0.923	0.894		0.914	Pk Hr Factor	0.912	0.852		0.935		
7 - 9 Volume	400	688	0	0	1088	4 - 6 Volume	1192	381	0	0	1573
7 - 9 Peak Hour	7:15	7:00		7:00	4 - 6 Peak Hour	16:30	16:00				16:30
7 - 9 Pk Volume	225	407	0	0	618	4 - 6 Pk Volume	628	210	0	0	826
Pk Hr Factor	0.721	0.814	0.000	0.000	0.878	Pk Hr Factor	0.963	0.938	0.000	0.000	0.952



➤ Fallbrook Mobility Element Network



FALLBROOK MOBILITY ELEMENT NETWORK

Mobility Element Network—Fallbrook Community Planning Area Matrix			
ID ^a	Road Segment	Designation/Improvement #.X = [# of lanes],[roadway classification][improvement]	Special Circumstances
1	Sandia Creek Drive (SC 21) Segment: Riverside County line to DeLuz Road	2.3C Minor Collector	None
2	DeLuz Road (SC 10) Segment: Pendleton-DeLuz community boundary to West Mission Road	2.2C Light Collector Intermittent Turn Lanes	Accepted at LOS E Segments: Dougherty Street to Mission Road
3	West / East Mission Road (SF 1305) Segment: North Mission Road to Interstate 15 interchange northbound	2.2B Light Collector Continuous Turn Lane—N. Mission Road to Brandon Road 4.2B Boulevard Intermittent Turn Lanes—Brandon Road to Interstate 15 interchange northbound	Accepted at LOS E Segments: Live Oak Park Road to I-15 southbound ramp Shoulder as Parking Lane Separate Bike Lane required—South Mission Road to Minnesota Street
4	North / South Mission Road (SF 1305) Segment: West Mission Road to Bonsall CPA boundary	4.2B Boulevard Intermittent Turn Lanes	Shoulder as Parking Lane Separate Bike Lane required—Mission Road to Alvarado Street
5	Alvarado Street (SC 10) Segment: South Mission Road to Stage Coach Lane	2.2C Light Collector Intermittent Turn Lanes	Shoulder as Parking Lane Separate Bike Lane required—Mission Road to Brandon Street
6	Fallbrook Street (SF 1416) Segment: South Mission Road to Reche Road	2.2B Light Collector Continuous Turn Lane—South Mission Road to Stage Coach Lane 2.2C Light Collector Intermittent Turn Lanes—Stage Coach Lane to Reche Road	Shoulder as Parking Lane Separate Bike Lane required—Mission Road to Old Stage Coach Lane
7	Ammunition Road (SC 20) Segment: Pendleton-DeLuz boundary to South Main Avenue	4.2B Boulevard Intermittent Turn Lanes	None
8	Palomino Road Segment: Old Stage Road to Stage Coach Lane	2.2C Light Collector Intermittent Turn Lanes	None



Mobility Element Network—Fallbrook Community Planning Area Matrix			
ID ^a	Road Segment	Designation/Improvement #.X = [# of lanes],[roadway classification][improvement]	Special Circumstances
9	Pepper Tree Lane (SC 90) Segment: South Mission Road to Stage Coach Lane	2.2E Light Collector	None
10	Stage Coach Lane (SA 40) Segment: South Mission Road to East Mission Road	2.2C Light Collector Intermittent Turn Lanes—South Mission Road to Reche Road 2.2B Light Collector Continuous Turn Lane—Reche Road to East Mission Road	None
11	Gumtree Lane (SC 30) Segment: North Stagecoach Lane to Hamilton Lane	2.2E Light Collector	None
12	Hamilton Lane Segment: Gumtree Lane to East Mission Road	2.2E Light Collector	None
13	Reche Road (SF 1416) Segment: Stage Coach Lane to Old Highway 395	2.2B Light Collector Continuous Turn Lane—Stage Coach Lane to Green Canyon Road 2.2C Light Collector Intermittent Turn Lane—Green Canyon Road to Old Highway 395	None
14	Yucca Road Segment: East Mission Road to Reche Road	2.2F Light Collector Reduced Shoulder	None

Mobility Element Network—Fallbrook Community Planning Area Matrix			
ID ^a	Road Segment	Designation/Improvement #.X = [# of lanes], [roadway classification] [improvement]	Special Circumstances
15	Old Highway 395 (SA 15) Segment: Rainbow CPA boundary to Interstate 15 interchange northbound and East Mission Road to Bonsall CPA boundary	2.1D Community Collector Improvement Options [Unspecified]—Rainbow CPA boundary to Interstate 15 interchange northbound 2.1A Community Collector Raised Median—East Mission Road to Pala Mesa Drive 4.2B Boulevard Intermittent Turn Lanes—Pala Mesa Drive to SR-76 2.1D Community Collector Improvement Options [Unspecified]—SR-76 to Bonsall CPA boundary	Accepted at LOS E/F Segment: Rainbow CPA boundary to Stewart Canyon Road and Dulin Road (W) to Pala Road Note: Although the Countywide traffic analysis forecast the Stewart Canyon to Pala Mesa Drive segment to operate at LOS E/F, more project specific analysis forecast this segment to operate at an acceptable LOS. Therefore, this segment is not being accepted to operate at LOS E/F and any development projects would have to either mitigate their impacts or pursue a General Plan Amendment to change the classification of the road.
16	Olive Hill Road (SC 100.5) Segment: South Mission Road to Bonsall CPA boundary	2.2F Light Collector Reduced Shoulder	None
17	Green Canyon Road (SA 60.2-SC 71) Segment: Reche Road to S. Mission Road	2.2E Light Collector	None
18	Gird Road (SA 80) Segment: Reche Road to SR-76 / Pala Road	2.2E Light Collector	None
19	Via Encinos / Knottwood Way Segment: S. Mission Road to Gird Road	2.2F Light Collector Reduced Shoulder	None
20	Via Monserate (SC 120) Segment: S. Mission Road to SR-76 / Pala Road	2.3C Minor Collector	None
21	Pala Mesa Drive Segment: Gird Road to Pankey Road	2.2F Light Collector Reduced Shoulder—Gird Road to Old Highway 395 2.1C Community Collector Turn Lanes—Old Highway 395 to Pankey Road	Class III Bike Lane – Old Highway 395 to Pankey Road



Mobility Element Network—Fallbrook Community Planning Area Matrix			
ID ^a	Road Segment	Designation/Improvement #.X = [# of lanes],[roadway classification][improvement]	Special Circumstances
22	SR 76 (Pala Road) Segment: Bonsall CPA boundary to Pala/Pauma Subregion boundary	4.1A Major Road Raised Median—Bonsall CPA boundary to Couser Canyon Road 2.1D Community Collector Improvement Options [Passing Lanes]—Couser Canyon Road to Pala/Pauma Subregion boundary	Accepted at LOS E Segment: Old Highway 395 to I-15 southbound ramp OR Increased Right-of-Way Required —Operational improvements such as right turn lanes required to attain acceptable LOS Segment: Old Highway 395 to I-15 southbound ramp
23	Horse Ranch Creek Road Segment: SR-76/Pala Road to Stewart Canyon Road	4.2A Boulevard Raised Median	None
24	Stewart Canyon Road Segment: Old Highway 395 to Horse Ranch Creek Road	4.1B Major Road Intermittent Turn Lanes	None
25	New Road 25 Segment: Pankey Road to Horse Ranch Creek Road	2.1E Community Collector	None
26	Pankey Road (SC 260.2) Segment: Pala Mesa Drive to East Dulin Road	4.2A Boulevard Raised Median	8-foot shoulder as Class II Bike Lane Parking prohibition in effect
27	East Dulin Road (SC 260.2) Segment: Old Highway 395 to Pankey Road	2.1E Community Collector	None
28	Rice Canyon Road (SC 170) Segment: Rainbow CPA boundary to SR-76	2.2F Light Collector Reduced Shoulder	None
29	Couser Canyon Road (SC 240) Segment: SR-76 / Pala Road to Valley Center CPA boundary	2.2F Light Collector Reduced Shoulder	None





a. ID = Roadway segment on Figure M-A-7




➤ SANDAG 2050 Forecast

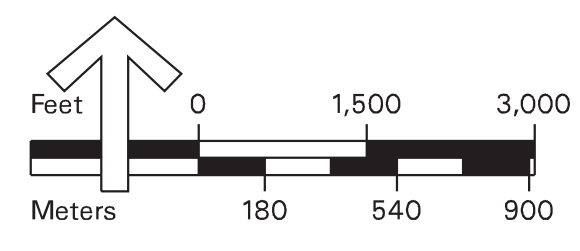
**SANDAG Series 12
County of San Diego
General Plan Update
2050 Base Forecast**

Fallbrook and Rainbow

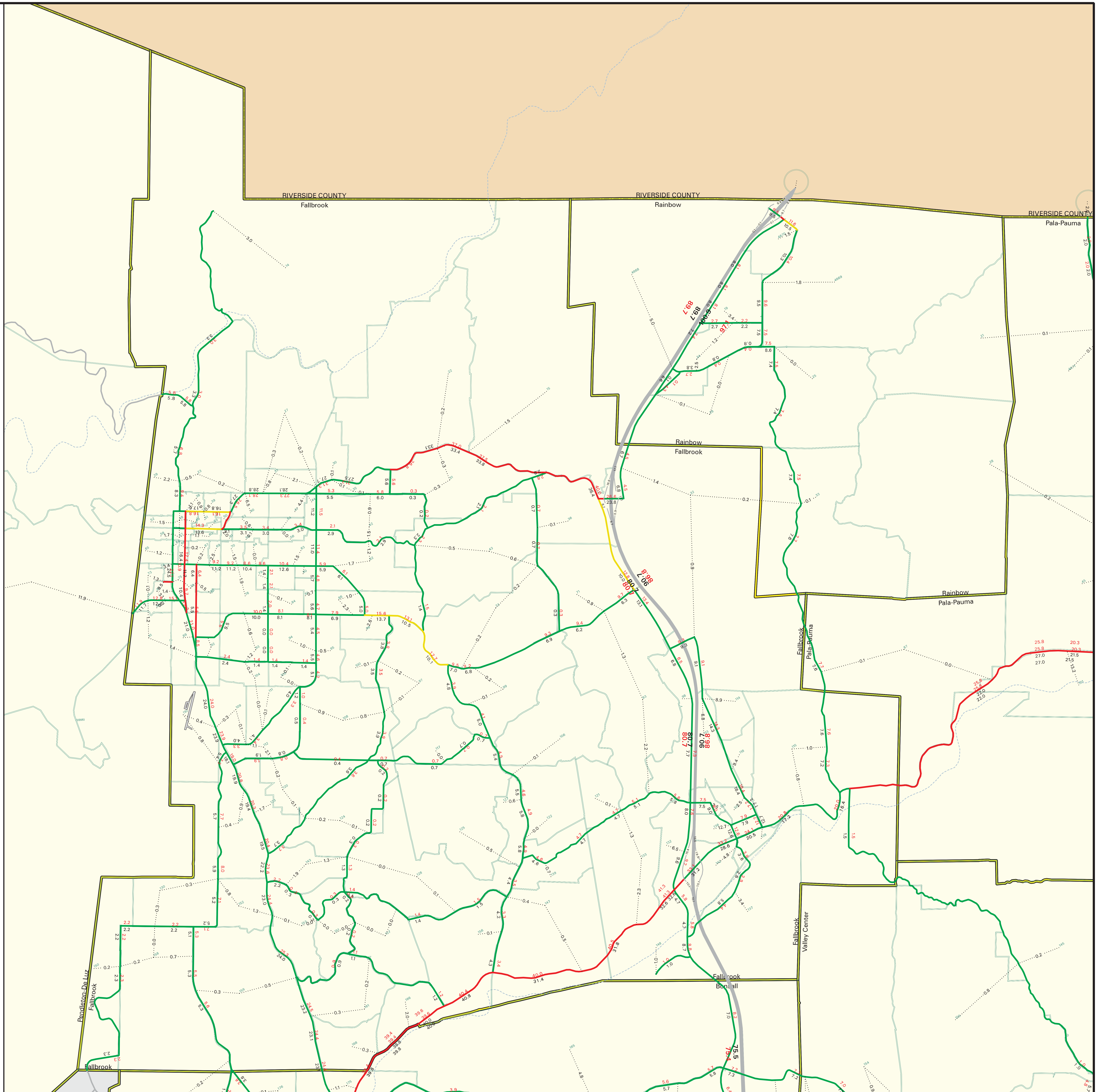
Model Run 10/29/13
2050hybl - October 2010 LU Map
2050 Network, 2050 Unincorporated LU,
2050 Incorporat
2050 Revenue Constrained

Levels of Service:
 LOS A - D
 LOS E
 LOS F
 Not Applicable

Forecasted Volumes:
 Adjusted Volume
 Unadjusted Volume
 Traffic Analysis Zone



February 20, 2014



ATTACHMENT B

- **Existing Synchro Worksheets**
-

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Existing
Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			W	W	
Traffic Vol, veh/h	0	1	2	167	563	1
Future Vol, veh/h	0	1	2	167	563	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1	2	184	619	1
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	808	620	620	0	-	0
Stage 1	620	-	-	-	-	-
Stage 2	188	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	350	488	960	-	-	-
Stage 1	536	-	-	-	-	-
Stage 2	844	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	349	488	960	-	-	-
Mov Cap-2 Maneuver	349	-	-	-	-	-
Stage 1	535	-	-	-	-	-
Stage 2	844	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	12.4	0.1	0			
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	960	-	488	-	-	
HCM Lane V/C Ratio	0.002	-	0.002	-	-	
HCM Control Delay (s)	8.8	0	12.4	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %ile Q(veh)	0	-	0	-	-	

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Existing
Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↓	
Traffic Vol, veh/h	1	3	6	739	203	3
Future Vol, veh/h	1	3	6	739	203	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	3	6	762	209	3
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	985	211	212	0	-	0
Stage 1	211	-	-	-	-	-
Stage 2	774	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	275	829	1358	-	-	-
Stage 1	824	-	-	-	-	-
Stage 2	455	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	273	829	1358	-	-	-
Mov Cap-2 Maneuver	273	-	-	-	-	-
Stage 1	817	-	-	-	-	-
Stage 2	455	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	11.6	0.1	0			
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1358	-	549	-	-	
HCM Lane V/C Ratio	0.005	-	0.008	-	-	
HCM Control Delay (s)	7.7	0	11.6	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %ile Q(veh)	0	-	0	-	-	




















Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Existing
Timing Plan: AM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕	↗	↖	↕		↖	↕	
Traffic Volume (veh/h)	1	1	31	112	0	25	7	147	3	34	529	0
Future Volume (veh/h)	1	1	31	112	0	25	7	147	3	34	529	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow (veh/h/ln)	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate (veh/h)	1	1	35	127	0	28	8	167	3	39	601	0
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap (veh/h)	106	7	160	392	0	187	15	705	13	64	771	0
Arrive On Green	0.12	0.12	0.12	0.12	0.00	0.12	0.01	0.38	0.38	0.04	0.41	0.00
Sat Flow (veh/h)	18	59	1360	1608	0	1585	1781	1832	33	1781	1870	0
Grp Volume (v), veh/h	37	0	0	127	0	28	8	0	170	39	601	0
Grp Sat Flow (s), veh/h/ln	1437	0	0	1608	0	1585	1781	0	1864	1781	1870	0
Q Serve (g_s), s	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	2.2	0.8	9.9	0.0
Cycle Q Clear (g_c), s	2.4	0.0	0.0	2.4	0.0	0.6	0.2	0.0	2.2	0.8	9.9	0.0
Prop In Lane	0.03		0.95	1.00		1.00	1.00		0.02	1.00		0.00
Lane Grp Cap (c), veh/h	273	0	0	392	0	187	15	0	718	64	771	0
V/C Ratio(X)	0.14	0.00	0.00	0.32	0.00	0.15	0.53	0.00	0.24	0.61	0.78	0.00
Avail Cap (c_a), veh/h	2110	0	0	1982	0	2023	1037	0	2281	1037	2288	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	14.2	0.0	0.0	14.9	0.0	14.1	17.6	0.0	7.4	16.9	9.0	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.2	0.0	0.1	10.0	0.0	0.1	3.4	0.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.8	0.0	0.2	0.1	0.0	0.6	0.3	2.7	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.2	0.0	0.0	15.1	0.0	14.2	27.6	0.0	7.5	20.3	9.7	0.0
LnGrp LOS	B	A	A	B	A	B	C	A	A	C	A	A
Approach Vol, veh/h		37			155			178			640	
Approach Delay, s/veh		14.2			14.9			8.4			10.4	
Approach LOS		B			B			A			B	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	20.2		8.8	5.6	21.2		8.8				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I1), s	2.8	4.2		4.4	2.2	11.9		4.4				
Green Ext Time (p_c), s	0.0	0.6		0.1	0.0	2.8		0.5				
Intersection Summary												
HCM 6th Ctrl Delay			10.8									
HCM 6th LOS			B									

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Existing
Timing Plan: PM PEAK

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	0	4	123	0	74	15	647	2	14	209	5
Future Volume (veh/h)	2	0	4	123	0	74	15	647	2	14	209	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow (veh/h/ln)	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	2	0	4	128	0	77	16	674	2	15	218	5
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	148	34	120	379	0	191	29	833	2	27	812	19
Arrive On Green	0.12	0.00	0.12	0.12	0.00	0.12	0.02	0.45	0.45	0.02	0.45	0.45
Sat Flow, veh/h	216	280	993	1621	0	1585	1781	1864	6	1781	1821	42
Grp Volume (V), veh/h	6	0	0	128	0	77	16	0	676	15	0	223
Grp Sat Flow (s), veh/h/ln	1489	0	0	1621	0	1585	1781	0	1869	1781	0	1863
Q Serve (g_s), s	0.0	0.0	0.0	0.0	0.0	1.8	0.4	0.0	12.3	0.3	0.0	3.0
Cycle Q Clear (g_c), s	2.7	0.0	0.0	2.7	0.0	1.8	0.4	0.0	12.3	0.3	0.0	3.0
Prop In Lane	0.33		0.67	1.00		1.00	1.00		0.00	1.00		0.02
Lane Grp Cap (c), veh/h	302	0	0	379	0	191	29	0	835	27	0	830
V/C Ratio(X)	0.02	0.00	0.00	0.34	0.00	0.40	0.55	0.00	0.81	0.55	0.00	0.27
Avail Cap (c_a), veh/h	1839	0	0	1840	0	1831	938	0	2069	938	0	2062
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.3	0.0	0.0	16.4	0.0	16.0	19.2	0.0	9.4	19.2	0.0	6.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.5	5.9	0.0	0.7	6.2	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOf (50%), veh/ln	0.0	0.0	0.0	0.9	0.0	0.6	0.2	0.0	3.5	0.2	0.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay (d), s/veh	15.3	0.0	0.0	16.6	0.0	16.5	25.1	0.0	10.2	25.4	0.0	6.9
LnGrp LOS	B	A	A	B	A	B	C	A	B	C	A	A
Approach Vol, veh/h		6			205			692			238	
Approach Delay, s/veh		15.3			16.5			10.5			8.1	
Approach LOS		B			B			B			A	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.9	24.1		9.3	5.9	24.0		9.3				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+1), s	2.3	14.3		4.7	2.4	5.0		4.7				
Green Ext Time (p_c), s	0.0	3.2		0.0	0.0	0.9		0.6				
Intersection Summary												
HCM 6th Ctrl Delay			11.1									
HCM 6th LOS			B									

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Existing
Timing Plan: AM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↖↖↖	↖	↖	↖↖	↖	↖	↖	↖	↖↖	↖	↖
Traffic Volume (veh/h)	58	687	200	74	1123	59	201	72	39	131	204	119
Future Volume (veh/h)	58	687	200	74	1123	59	201	72	39	131	204	119
Initial Q (Q ₀), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A _{pbT})	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	64	755	220	81	1234	65	221	79	43	144	224	131
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	142	2241	696	144	1565	1108	222	144	250	893	244	142
Arrive On Green	0.08	0.44	0.44	0.08	0.44	0.44	0.12	0.08	0.08	0.26	0.22	0.22
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	1107	647
Grp Volume (v), veh/h	64	755	220	81	1234	65	221	79	43	144	0	355
Grp Sat Flow (s), veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1754
Q Serve (g _s), s	6.7	19.0	17.6	8.5	58.0	0.9	24.2	7.9	2.6	6.3	0.0	38.6
Cycle Q Clear (g _c), s	6.7	19.0	17.6	8.5	58.0	0.9	24.2	7.9	2.6	6.3	0.0	38.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.37
Lane Grp Cap (c), veh/h	142	2241	696	144	1565	1108	222	144	250	893	0	386
V/C Ratio (X)	0.45	0.34	0.32	0.56	0.79	0.06	1.00	0.55	0.17	0.16	0.00	0.92
Avail Cap (c _a), veh/h	195	2241	696	231	1565	1108	222	245	336	1139	0	589
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter (I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	85.7	36.0	35.6	86.3	46.8	2.6	85.3	86.7	31.7	55.9	0.0	74.4
Incr Delay (d ₂), s/veh	2.2	0.4	1.2	3.4	4.1	0.1	59.1	3.2	0.3	0.1	0.0	14.4
Initial Q Delay (d ₃), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfC (50%), veh/ln	8.2	8.2	7.3	4.1	26.8	0.5	14.9	4.0	1.2	2.8	0.0	19.1
Unsig. Movement Delay, s/veh												
LnGrp Delay (d), s/veh	87.9	36.4	36.8	89.6	50.9	2.7	144.4	90.0	32.0	56.0	0.0	88.8
LnGrp LOS	F	D	D	F	D	A	F	F	C	E	A	F
Approach Vol, veh/h		1039			1380			343			499	
Approach Delay, s/veh		39.7			50.9			117.8			79.3	
Approach LOS		D			D			F			E	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	21.5	93.1	30.0	50.4	21.2	93.4	57.9	22.5				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (G _{max}), s	25	53.5	* 24	65.5	* 21	57.5	64.3	* 26				
Max Q Clear Time (g _c +110), s	21.0	26.2	40.6	8.7	60.0	8.3	9.9					
Green Ext Time (p _c), s	0.1	7.0	0.0	2.3	0.1	0.0	0.5	0.4				

Intersection Summary

HCM 6th Ctrl Delay	58.7
HCM 6th LOS	E

Notes

- User approved pedestrian interval to be less than phase max green.
- * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Existing
Timing Plan: PM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↑↑↑	↗	↖	↑↑	↗	↖	↑	↗	↖↗	↖	↗
Traffic Volume (veh/h)	204	1032	125	26	831	306	96	161	43	146	58	86
Future Volume (veh/h)	204	1032	125	26	831	306	96	161	43	146	58	86
Initial Q (Q ₀), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A _{pbT})	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	215	1086	132	27	875	322	101	169	45	154	61	91
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	195	3158	980	112	2034	1021	120	191	262	248	78	117
Arrive On Green	0.11	0.62	0.62	0.06	0.57	0.57	0.07	0.10	0.10	0.07	0.12	0.12
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	678	1011
Grp Volume (V), veh/h	215	1086	132	27	875	322	101	169	45	154	0	152
Grp Sat Flow (s), veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1688
Q Serve (g _s), s	21.3	20.1	6.8	2.8	27.2	6.9	10.9	17.4	3.7	8.4	0.0	17.1
Cycle Q Clear (g _c), s	21.3	20.1	6.8	2.8	27.2	6.9	10.9	17.4	3.7	8.4	0.0	17.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.60
Lane Grp Cap (c), veh/h	195	3158	980	112	2034	1021	120	191	262	248	0	195
V/C Ratio (X)	1.10	0.34	0.13	0.24	0.43	0.32	0.84	0.89	0.17	0.62	0.00	0.78
Avail Cap (c _a), veh/h	195	3158	980	231	2034	1021	322	245	307	1139	0	472
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter (I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	86.8	18.0	15.5	86.9	23.7	4.8	89.9	86.4	44.5	87.9	0.0	83.8
Incr Delay (d ₂), s/veh	95.4	0.3	0.3	1.1	0.7	0.8	14.5	25.3	0.3	2.5	0.0	6.5
Initial Q Delay (d ₃), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOf (50%), veh/ln	5.1	8.3	2.6	1.3	12.0	3.4	5.6	9.8	1.7	3.9	0.0	7.9
Unsig. Movement Delay, s/veh												
LnGrp Delay (d), s/veh	182.3	18.3	15.8	88.0	24.3	5.6	104.4	111.7	44.8	90.5	0.0	90.3
LnGrp LOS	F	B	B	F	C	A	F	F	D	F	A	F
Approach Vol, veh/h		1433			1224			315			306	
Approach Delay, s/veh		42.7			20.8			99.8			90.4	
Approach LOS		D			C			F			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	8.0	128.1	18.8	30.1	27.0	119.1	21.5	27.4				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (G _{max}), s	25	53.5	* 35	54.5	* 21	57.5	64.3	* 26				
Max Q Clear Time (g _c +14), s	22.1	12.9	19.1	23.3	29.2	10.4	19.4					
Green Ext Time (p _c), s	0.0	10.0	0.2	1.0	0.0	8.5	0.5	0.5				

Intersection Summary

HCM 6th Ctrl Delay	44.5
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Existing
Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	3	4	7	166	560	4
Future Vol, veh/h	3	4	7	166	560	4
Conflicting Feds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	4	8	180	609	4
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	807	611	613	0	-	0
Stage 1	611	-	-	-	-	-
Stage 2	196	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	351	494	966	-	-	-
Stage 1	542	-	-	-	-	-
Stage 2	837	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	348	494	966	-	-	-
Mov Cap-2 Maneuver	348	-	-	-	-	-
Stage 1	537	-	-	-	-	-
Stage 2	837	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	13.8	0.4		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	966	-	419	-	-	
HCM Lane V/C Ratio	0.008	-	0.018	-	-	
HCM Control Delay (s)	8.8	0	13.8	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %ile Q(veh)	0	-	0.1	-	-	

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Existing
Timing Plan: PM PEAK

Intersection

Int Delay, s/veh 0.2

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	4	6	6	742	202	4
Future Vol, veh/h	4	6	6	742	202	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	7	7	807	220	4

Major/Minor Minor2 Major1 Major2

Conflicting Flow All	1043	222	224	0	-	0
Stage 1	222	-	-	-	-	-
Stage 2	821	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	254	818	1345	-	-	-
Stage 1	815	-	-	-	-	-
Stage 2	432	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	252	818	1345	-	-	-
Mov Cap-2 Maneuver	252	-	-	-	-	-
Stage 1	808	-	-	-	-	-
Stage 2	432	-	-	-	-	-

Approach EB NB SB

HCM Control Delay, s	13.6	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h)	1345	-	431	-	-
HCM Lane V/C Ratio	0.005	-	0.025	-	-
HCM Control Delay (s)	7.7	0	13.6	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %ile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Existing
Timing Plan: AM PEAK

Intersection

Int Delay, s/veh 0.4

Movement EBL EBR NBL NBT SBT SBR

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	6	8	13	160	564	8
Future Vol, veh/h	6	8	13	160	564	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	9	14	174	613	9

Major/Minor Minor2 Major1 Major2

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	820	618	622	0	-	0
Stage 1	618	-	-	-	-	-
Stage 2	202	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	345	489	959	-	-	-
Stage 1	538	-	-	-	-	-
Stage 2	832	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	339	489	959	-	-	-
Mov Cap-2 Maneuver	339	-	-	-	-	-
Stage 1	529	-	-	-	-	-
Stage 2	832	-	-	-	-	-

Approach EB NB SB

HCM Control Delay, s	14.1	0.7	0
HCM LOS	B		

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h)	959	-	411	-	-
HCM Lane V/C Ratio	0.015	-	0.037	-	-
HCM Control Delay (s)	8.8	0	14.1	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Existing
Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			↑	↑	
Traffic Vol, veh/h	17	26	27	725	208	18
Future Vol, veh/h	17	26	27	725	208	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	28	29	788	226	20
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1082	236	246	0	-	0
Stage 1	236	-	-	-	-	-
Stage 2	846	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	241	803	1320	-	-	-
Stage 1	803	-	-	-	-	-
Stage 2	421	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	232	803	1320	-	-	-
Mov Cap-2 Maneuver	232	-	-	-	-	-
Stage 1	772	-	-	-	-	-
Stage 2	421	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	15	0.3	0			
HCM LOS	C					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1320	-	407	-	-	
HCM Lane V/C Ratio	0.022	-	0.115	-	-	
HCM Control Delay (s)	7.8	0	15	-	-	
HCM Lane LOS	A	A	C	-	-	
HCM 95th %ile Q(veh)	0.1	-	0.4	-	-	

ATTACHMENT C

- Buildout 2050 Synchro Worksheets
- Buildout 2050 Plus Project Synchro Work Sheets

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Opening Year Baseline
Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	0	1	2	170	574	1
Future Vol, veh/h	0	1	2	170	574	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1	2	187	631	1
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	823	632	632	0	-	0
Stage	632	-	-	-	-	-
Stage 2	191	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	343	480	951	-	-	-
Stage 1	530	-	-	-	-	-
Stage 2	841	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	342	480	951	-	-	-
Mov Cap-2 Maneuver	342	-	-	-	-	-
Stage 1	529	-	-	-	-	-
Stage 2	841	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	12.5	0.1	0			
HCM LOS	B					
Minor Lane/Minor Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	951	-	480	-	-	
HCM Lane V/C Ratio	0.002	-	0.002	-	-	
HCM Control Delay (s)	8.8	0	12.5	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %ile Q(veh)	0	-	0	-	-	

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Opening Year Baseline
Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	1	3	6	754	207	3
Future Vol, veh/h	1	3	6	754	207	3
Conflicting Feds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	3	6	777	213	3
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1004	215	216	0	-	0
Stage 1	215	-	-	-	-	-
Stage 2	789	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	268	825	1354	-	-	-
Stage 1	821	-	-	-	-	-
Stage 2	448	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	266	825	1354	-	-	-
Mov Cap-2 Maneuver	266	-	-	-	-	-
Stage 1	814	-	-	-	-	-
Stage 2	448	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	11.7	0.1	0			
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1354	-	541	-	-	
HCM Lane V/C Ratio	0.005	-	0.008	-	-	
HCM Control Delay (s)	7.7	0	11.7	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %ile Q(veh)	0	-	0	-	-	




















Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Opening Year Baseline
Timing Plan: AM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕	↗	↖	↗	↖	↖	↗	
Traffic Volume (veh/h)	1	1	32	114	0	26	7	150	3	35	540	0
Future Volume (veh/h)	1	1	32	114	0	26	7	150	3	35	540	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow (veh/h/ln)	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	1	36	130	0	30	8	170	3	40	614	0
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	104	7	167	392	0	191	15	715	13	65	782	0
Arrive On Green	0.12	0.12	0.12	0.12	0.00	0.12	0.01	0.39	0.39	0.04	0.42	0.00
Sat Flow, veh/h	18	59	1387	1608	0	1585	1781	1832	32	1781	1870	0
Grp Volume(v), veh/h	38	0	0	130	0	30	8	0	173	40	614	0
Grp Sat Flow(s), veh/h/ln	1464	0	0	1608	0	1585	1781	0	1865	1781	1870	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	2.3	0.8	10.3	0.0
Cycle Q Clear(g_c), s	2.5	0.0	0.0	2.5	0.0	0.6	0.2	0.0	2.3	0.8	10.3	0.0
Prop In Lane	0.03		0.95	1.00		1.00	1.00		0.02	1.00		0.00
Lane Grp Cap(c), veh/h	278	0	0	392	0	191	15	0	728	65	782	0
V/C Ratio(X)	0.14	0.00	0.00	0.33	0.00	0.16	0.53	0.00	0.24	0.61	0.78	0.00
Avail Cap(c_a), veh/h	2075	0	0	1946	0	1987	1018	0	2239	1018	2246	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	14.4	0.0	0.0	15.1	0.0	14.3	17.9	0.0	7.4	17.2	9.1	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.2	0.0	0.1	10.1	0.0	0.1	3.5	0.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.2	0.0	0.0	0.9	0.0	0.2	0.1	0.0	0.6	0.3	2.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	14.4	0.0	0.0	15.3	0.0	14.4	27.9	0.0	7.5	20.6	9.8	0.0
LnGrp LOS	B	A	A	B	A	B	C	A	A	C	A	A
Approach Vol, veh/h		38			160			181			654	
Approach Delay, s/veh		14.4			15.1			8.4			10.5	
Approach LOS		B			B			A			B	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	20.6		9.0	5.6	21.6		9.0				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I), s	2.8	4.3		4.5	2.2	12.3		4.5				
Green Ext Time (p_c), s	0.0	0.6		0.1	0.0	2.9		0.5				
Intersection Summary												
HCM 6th Ctrl Delay			11.0									
HCM 6th LOS			B									

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Opening Year Baseline
Timing Plan: PM PEAK

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	0	4	125	0	75	15	660	2	14	213	5
Future Volume (veh/h)	2	0	4	125	0	75	15	660	2	14	213	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow (veh/h/ln)	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	2	0	4	130	0	78	16	688	2	15	222	5
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	146	35	122	377	0	193	29	845	2	27	824	19
Arrive On Green	0.12	0.00	0.12	0.12	0.00	0.12	0.02	0.45	0.45	0.02	0.45	0.45
Sat Flow, veh/h	214	286	1000	1622	0	1585	1781	1864	5	1781	1822	41
Grp Volume (v), veh/h	6	0	0	130	0	78	16	0	690	15	0	227
Grp Sat Flow (s), veh/h/ln	1500	0	0	1622	0	1585	1781	0	1869	1781	0	1863
Q Serve (g_s), s	0.0	0.0	0.0	0.0	0.0	1.8	0.4	0.0	12.8	0.3	0.0	3.0
Cycle Q Clear (g_c), s	2.8	0.0	0.0	2.8	0.0	1.8	0.4	0.0	12.8	0.3	0.0	3.0
Prop In Lane	0.33		0.67	1.00		1.00	1.00		0.00	1.00		0.02
Lane Grp Cap (c), veh/h	303	0	0	377	0	193	29	0	847	27	0	842
V/C Ratio(X)	0.02	0.00	0.00	0.34	0.00	0.40	0.55	0.00	0.81	0.55	0.00	0.27
Avail Cap (c_a), veh/h	1807	0	0	1808	0	1798	921	0	2032	921	0	2025
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.5	0.0	0.0	16.7	0.0	16.2	19.5	0.0	9.5	19.6	0.0	6.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.5	5.9	0.0	0.7	6.2	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.0	1.0	0.0	0.6	0.2	0.0	3.7	0.2	0.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay (d), s/veh	15.5	0.0	0.0	16.9	0.0	16.7	25.5	0.0	10.2	25.8	0.0	6.9
LnGrp LOS	B	A	A	B	A	B	C	A	B	C	A	A
Approach Vol, veh/h		6			208			706			242	
Approach Delay, s/veh		15.5			16.8			10.6			8.1	
Approach LOS		B			B			B			A	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.9	24.6		9.5	6.0	24.6		9.5				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I1), s	2.3	14.8		4.8	2.4	5.0		4.8				
Green Ext Time (p_c), s	0.0	3.3		0.0	0.0	0.9		0.6				
Intersection Summary												
HCM 6th Ctrl Delay			11.2									
HCM 6th LOS			B									

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Opening Year Baseline
Timing Plan: AM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↑↑↑	↗	↖	↑↑	↗	↖	↑	↗	↖↗	↑	↖
Traffic Volume (veh/h)	59	701	204	75	1145	60	205	73	40	134	208	121
Future Volume (veh/h)	59	701	204	75	1145	60	205	73	40	134	208	121
Initial Q (Q ₀), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	65	770	224	82	1258	66	225	80	44	147	229	133
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	142	2167	673	144	1513	1108	244	144	250	943	246	143
Arrive On Green	0.08	0.42	0.42	0.08	0.43	0.43	0.14	0.08	0.08	0.27	0.22	0.22
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	1110	645
Grp Volume (V), veh/h	65	770	224	82	1258	66	225	80	44	147	0	362
Grp Sat Flow (s), veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1754
Q Serve (g_s), s	6.8	19.9	18.5	8.6	61.4	0.9	24.3	8.0	2.6	6.3	0.0	39.4
Cycle Q Clear (g_c), s	6.8	19.9	18.5	8.6	61.4	0.9	24.3	8.0	2.6	6.3	0.0	39.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.37
Lane Grp Cap (c), veh/h	142	2167	673	144	1513	1108	244	144	250	943	0	389
V/C Ratio (X)	0.46	0.36	0.33	0.57	0.83	0.06	0.92	0.56	0.18	0.16	0.00	0.93
Avail Cap (c_a), veh/h	195	2167	673	231	1513	1108	322	245	336	1139	0	490
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter (I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	85.7	38.0	37.6	86.3	49.8	2.6	83.1	86.8	31.2	53.8	0.0	74.4
Incr Delay (d ₂), s/veh	2.3	0.5	1.3	3.5	5.5	0.1	26.1	3.3	0.3	0.1	0.0	21.4
Initial Q Delay (d ₃), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOf (50%), veh/ln	8.3	8.6	7.6	4.2	28.6	0.5	13.1	4.1	1.2	2.8	0.0	20.2
Unsig. Movement Delay, s/veh												
LnGrp Delay (d), s/veh	88.0	38.5	39.0	89.8	55.2	2.7	109.2	90.1	31.5	53.9	0.0	95.8
LnGrp LOS	F	D	D	F	E	A	F	F	C	D	A	F
Approach Vol, veh/h		1059			1406			349			509	
Approach Delay, s/veh		41.6			54.8			95.0			83.7	
Approach LOS		D			D			F			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	21.5	90.3	32.4	50.8	21.2	90.5	60.7	22.5				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (Gmax), s	25	53.5	* 35	54.5	* 21	57.5	64.3	* 26				
Max Q Clear Time (g_c+I), s	21.9	26.3	41.4	8.8	63.4	8.3	10.0					
Green Ext Time (p_c), s	0.1	7.1	0.4	1.8	0.1	0.0	0.5	0.4				

Intersection Summary

HCM 6th Ctrl Delay	59.2
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Opening Year Baseline
Timing Plan: PM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↑↑↑	↗	↖	↑↑	↗	↖	↑	↗	↖↗	↘	
Traffic Volume (veh/h)	208	1053	128	27	848	312	98	164	44	149	59	88
Future Volume (veh/h)	208	1053	128	27	848	312	98	164	44	149	59	88
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No				No						No	
Adj Sat Flow (veh/h/n)	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate (veh/h)	219	1108	135	28	893	328	103	173	46	157	62	93
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap (veh/h)	195	3143	976	114	2027	1018	122	195	266	248	79	118
Arrive On Green	0.11	0.62	0.62	0.06	0.57	0.57	0.07	0.10	0.10	0.07	0.12	0.12
Sat Flow (veh/h)	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	675	1013
Grp Volume (v), veh/h	219	1108	135	28	893	328	103	173	46	157	0	155
Grp Sat Flow (s), veh/h/n	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1688
Q Serve (g_s), s	21.3	20.8	7.0	2.9	28.1	7.0	11.1	17.8	3.8	8.6	0.0	17.4
Cycle Q Clear (g_c), s	21.3	20.8	7.0	2.9	28.1	7.0	11.1	17.8	3.8	8.6	0.0	17.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.60
Lane Grp Cap (c), veh/h	195	3143	976	114	2027	1018	122	195	266	248	0	197
V/C Ratio (X)	1.13	0.35	0.14	0.25	0.44	0.32	0.85	0.89	0.17	0.63	0.00	0.79
Avail Cap (c_a), veh/h	195	3143	976	231	2027	1018	322	245	309	1139	0	472
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter (I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	86.8	18.4	15.8	86.8	24.0	4.9	89.8	86.2	44.2	88.0	0.0	83.8
Incr Delay (d2), s/veh	102.3	0.3	0.3	1.1	0.7	0.8	14.5	26.3	0.3	2.7	0.0	6.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOf (50%), veh/15.4	8.6	2.7	1.4	12.4	3.5	5.7	10.1	1.7	4.0	0.0	8.0	
Unsig. Movement Delay, s/veh												
LnGrp Delay (d), s/veh	189.1	18.7	16.1	87.9	24.7	5.7	104.3	112.5	44.5	90.7	0.0	90.6
LnGrp LOS	F	B	B	F	C	A	F	F	D	F	A	F
Approach Vol, veh/h		1462			1249			322			312	
Approach Delay, s/veh		44.0			21.2			100.2			90.6	
Approach LOS		D			C			F			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	18.2	127.5	19.0	30.3	27.0	118.7	21.5	27.8				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (Gmax), s	25	53.5	* 35	54.5	* 21	57.5	64.3	* 26				
Max Q Clear Time (g_c+1), s	22.8	13.1	19.4	23.3	30.1	10.6	19.8					
Green Ext Time (p_c), s	0.0	10.2	0.2	1.0	0.0	8.7	0.6	0.5				

Intersection Summary

HCM 6th Ctrl Delay	45.2
HCM 6th LOS	D

Notes

- User approved pedestrian interval to be less than phase max green.
- * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Opening Year Baseline
Timing Plan: AM PEAK

Intersection							
Int Delay, s/veh	0.2						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	Y		↑		↑		
Traffic Vol, veh/h	3	4	7	169	571	4	
Future Vol, veh/h	3	4	7	169	571	4	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	-	-	-	-	-	
Veh in Median Storage, #	0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	3	4	8	184	621	4	
Major/Minor	Minor2	Major1	Major2				
Conflicting Flow All	823	623	625	0	-	0	
Stage 1	623	-	-	-	-	-	
Stage 2	200	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	343	486	956	-	-	-	
Stage 1	535	-	-	-	-	-	
Stage 2	834	-	-	-	-	-	
Platoon blocked, %	-	-	-	-	-	-	
Mov Cap-1 Maneuver	340	486	956	-	-	-	
Mov Cap-2 Maneuver	340	-	-	-	-	-	
Stage 1	530	-	-	-	-	-	
Stage 2	834	-	-	-	-	-	
Approach	EB	NB		SB			
HCM Control Delay, s	13.9	0.3		0			
HCM LOS	B						
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR		
Capacity (veh/h)	956	-	410	-	-		
HCM Lane V/C Ratio	0.008	-	0.019	-	-		
HCM Control Delay (s)	8.8	0	13.9	-	-		
HCM Lane LOS	A	A	B	-	-		
HCM 95th %tile Q(veh)	0	-	0.1	-	-		

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Opening Year Baseline
Timing Plan: PM PEAK

Intersection

Int Delay, s/veh 0.2

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	4	6	6	757	206	4
Future Vol, veh/h	4	6	6	757	206	4
Conflicting Feeds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	7	7	823	224	4

Major/Minor Minor2 Major1 Major2

Conflicting Flow All	1063	226	228	0	-	0
Stage 1	226	-	-	-	-	-
Stage 2	837	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	247	813	1340	-	-	-
Stage 1	812	-	-	-	-	-
Stage 2	425	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	245	813	1340	-	-	-
Mov Cap-2 Maneuver	245	-	-	-	-	-
Stage 1	804	-	-	-	-	-
Stage 2	425	-	-	-	-	-

Approach EB NB SB

HCM Control Delay, s	13.8	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h)	1340	-	422	-	-
HCM Lane V/C Ratio	0.005	-	0.026	-	-
HCM Control Delay (s)	7.7	0	13.8	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %ile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Opening Year Baseline
Timing Plan: AM PEAK

Intersection

Int Delay, s/veh 0.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	6	8	13	163	575	8
Future Vol, veh/h	6	8	13	163	575	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	9	14	177	625	9

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	835	630	634	0	-	0
Stage 1	630	-	-	-	-	-
Stage 2	205	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	338	482	949	-	-	-
Stage 1	531	-	-	-	-	-
Stage 2	829	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	333	482	949	-	-	-
Mov Cap-2 Maneuver	333	-	-	-	-	-
Stage 1	523	-	-	-	-	-
Stage 2	829	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.3	0.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	949	-	404	-	-
HCM Lane V/C Ratio	0.015	-	0.038	-	-
HCM Control Delay (s)	8.9	0	14.3	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Opening Year Baseline
Timing Plan: PM PEAK

Intersection

Int Delay, s/veh 0.9

Movement

	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↖			↗	↘	
Traffic Vol, veh/h	17	27	28	740	212	18
Future Vol, veh/h	17	27	28	740	212	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	29	30	804	230	20

Major/Minor

	Minor2	Major1	Major2			
Conflicting Flow All	1104	240	250	0	-	0
Stage	240	-	-	-	-	-
Stage 2	864	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	234	799	1316	-	-	-
Stage 1	800	-	-	-	-	-
Stage 2	413	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	224	799	1316	-	-	-
Mov Cap-2 Maneuver	224	-	-	-	-	-
Stage 1	767	-	-	-	-	-
Stage 2	413	-	-	-	-	-

Approach

	EB	NB	SB
HCM Control Delay, s	15.2	0.3	0
HCM LOS	C		

Minor Lane/Major Mvmt

	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1316	-	401	-	-
HCM Lane V/C Ratio	0.023	-	0.119	-	-
HCM Control Delay (s)	7.8	0	15.2	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %ile Q(veh)	0.1	-	0.4	-	-

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Opening Year w/Proj
Timing Plan: AM PEAK

Intersection

Int Delay, s/veh 0

Movement

	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↔			↔	↔	
Traffic Vol, veh/h	0	1	2	182	587	1
Future Vol, veh/h	0	1	2	182	587	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1	2	200	645	1

Major/Minor

	Minor2	Major1	Major2			
Conflicting Flow All	850	646	646	0	-	0
Stage 1	646	-	-	-	-	-
Stage 2	204	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	331	472	939	-	-	-
Stage 1	522	-	-	-	-	-
Stage 2	830	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	330	472	939	-	-	-
Mov Cap-2 Maneuver	330	-	-	-	-	-
Stage 1	521	-	-	-	-	-
Stage 2	830	-	-	-	-	-

Approach

	EB	NB	SB
HCM Control Delay, s	12.6	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt

	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	939	-	472	-	-
HCM Lane V/C Ratio	0.002	-	0.002	-	-
HCM Control Delay (s)	8.8	0	12.6	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Old Highway 395 Retail Center
1: Old Hwy 395 & Via Belmonte

Opening Year w/Proj
Timing Plan: PM PEAK

Intersection

Int Delay, s/veh 0.1

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations	↖			↗	↖	↗
Traffic Vol, veh/h	1	3	6	773	226	3
Future Vol, veh/h	1	3	6	773	226	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	3	6	797	233	3

Major/Minor Minor2 Major1 Major2

Conflicting Flow All	1044	235	236	0	-	0
Stage	235	-	-	-	-	-
Stage 2	809	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	254	804	1331	-	-	-
Stage 1	804	-	-	-	-	-
Stage 2	438	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	252	804	1331	-	-	-
Mov Cap-2 Maneuver	252	-	-	-	-	-
Stage 1	798	-	-	-	-	-
Stage 2	438	-	-	-	-	-

Approach EB NB SB

HCM Control Delay, s 12 0.1 0
HCM LOS B

Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h)	1331	-	520	-	-
HCM Lane V/C Ratio	0.005	-	0.008	-	-
HCM Control Delay (s)	7.7	0	12	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Opening Year w/Proj
Timing Plan: AM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕	↗	↖	↕	↗	↖	↕	↖
Traffic Volume (veh/h)	1	1	32	114	0	26	7	170	3	35	558	0
Future Volume (veh/h)	1	1	32	114	0	26	7	170	3	35	558	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow (veh/h/ln)	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	1	36	130	0	30	8	193	3	40	634	0
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	102	7	167	388	0	190	15	735	11	65	800	0
Arrive On Green	0.12	0.12	0.12	0.12	0.00	0.12	0.01	0.40	0.40	0.04	0.43	0.00
Sat Flow, veh/h	18	60	1394	1609	0	1585	1781	1837	29	1781	1870	0
Grp Volume (v), veh/h	38	0	0	130	0	30	8	0	196	40	634	0
Grp Sat Flow (s), veh/h/ln	1472	0	0	1609	0	1585	1781	0	1865	1781	1870	0
Q Serve (g_s), s	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	2.6	0.8	10.8	0.0
Cycle Q Clear (g_c), s	2.6	0.0	0.0	2.6	0.0	0.6	0.2	0.0	2.6	0.8	10.8	0.0
Prop In Lane	0.03		0.95	1.00		1.00	1.00		0.02	1.00		0.00
Lane Grp Cap (c), veh/h	277	0	0	388	0	190	15	0	746	65	800	0
V/C Ratio (X)	0.14	0.00	0.00	0.34	0.00	0.16	0.53	0.00	0.26	0.62	0.79	0.00
Avail Cap (c_a), veh/h	2033	0	0	1907	0	1946	997	0	2195	997	2201	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	14.7	0.0	0.0	15.4	0.0	14.6	18.3	0.0	7.4	17.6	9.2	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.2	0.0	0.1	10.1	0.0	0.1	3.5	0.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ (50%), veh/ln	0.2	0.0	0.0	0.9	0.0	0.2	0.1	0.0	0.7	0.3	3.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay (d), s/veh	14.7	0.0	0.0	15.6	0.0	14.7	28.3	0.0	7.5	21.1	9.8	0.0
LnGrp LOS	B	A	A	B	A	B	C	A	A	C	A	A
Approach Vol, veh/h		38			160			204			674	
Approach Delay, s/veh		14.7			15.5			8.3			10.5	
Approach LOS		B			B			A			B	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	21.3		9.0	5.6	22.3		9.0				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+I1), s	2.8	4.6		4.6	2.2	12.8		4.6				
Green Ext Time (p_c), s	0.0	0.7		0.1	0.0	3.0		0.5				

Intersection Summary

HCM 6th Ctrl Delay	11.0
HCM 6th LOS	B

Old Highway 395 Retail Center
2: Old Hwy 395 & Via Altamira

Opening Year w/Proj
Timing Plan: PM PEAK

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕	↗	↖	↗	↖		↖	↗
Traffic Volume (veh/h)	2	0	4	125	0	75	15	689	2	14	242	5
Future Volume (veh/h)	2	0	4	125	0	75	15	689	2	14	242	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus. Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow (veh/h/ln)	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	2	0	4	130	0	78	16	718	2	15	252	5
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	142	34	120	370	0	192	29	871	2	27	852	17
Arrive On Green	0.12	0.00	0.12	0.12	0.00	0.12	0.02	0.47	0.47	0.02	0.47	0.47
Sat Flow, veh/h	212	284	991	1624	0	1585	1781	1864	5	1781	1828	36
Grp Volume(v), veh/h	6	0	0	130	0	78	16	0	720	15	0	257
Grp Sat Flow(s),veh/h/ln	1486	0	0	1624	0	1585	1781	0	1869	1781	0	1864
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	1.9	0.4	0.0	13.8	0.3	0.0	3.5
Cycle Q Clear(g_c), s	2.9	0.0	0.0	2.9	0.0	1.9	0.4	0.0	13.8	0.3	0.0	3.5
Prop In Lane	0.33		0.67	1.00		1.00	1.00		0.00	1.00		0.02
Lane Grp Cap(c), veh/h	296	0	0	370	0	192	29	0	874	27	0	869
V/C Ratio(X)	0.02	0.00	0.00	0.35	0.00	0.41	0.55	0.00	0.82	0.55	0.00	0.30
Avail Cap(c_a), veh/h	1747	0	0	1750	0	1740	892	0	1966	892	0	1960
HCM Platootn Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.0	0.0	0.0	17.2	0.0	16.8	20.2	0.0	9.5	20.2	0.0	6.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.5	6.0	0.0	0.8	6.3	0.0	0.1
Initial Q Delay (d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfC(50%),veh/ln	0.0	0.0	0.0	1.0	0.0	0.6	0.2	0.0	4.0	0.2	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.1	0.0	0.0	17.5	0.0	17.3	26.2	0.0	10.3	26.5	0.0	6.9
LnGrp LOS	B	A	A	B	A	B	C	A	B	C	A	A
Approach Vol, veh/h		6			208			736			272	
Approach Delay, s/veh		16.1			17.4			10.7			8.0	
Approach LOS		B			B			B			A	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.9	25.8		9.6	6.0	25.8		9.6				
Change Period (Y+Rc), s	5.3	6.5		4.6	5.3	6.5		4.6				
Max Green Setting (Gmax), s	20.7	43.5		45.4	20.7	43.5		45.4				
Max Q Clear Time (g_c+1), s	2.3	15.8		4.9	2.4	5.5		4.9				
Green Ext Time (p_c), s	0.0	3.5		0.0	0.0	1.0		0.6				
Intersection Summary												
HCM 6th Ctrl Delay			11.2									
HCM 6th LOS			B									

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Opening Year w/Proj
Timing Plan: AM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↑↑↑	↗	↖	↑↑	↗	↖	↑	↗	↖↗	↖	↗
Traffic Volume (veh/h)	67	701	204	75	1145	68	205	76	40	142	211	129
Future Volume (veh/h)	67	701	204	75	1145	68	205	76	40	142	211	129
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	74	770	224	82	1258	75	225	84	44	156	232	142
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	144	2131	662	144	1485	1106	244	144	250	968	249	152
Arrive On Green	0.08	0.42	0.42	0.08	0.42	0.42	0.14	0.08	0.08	0.28	0.23	0.23
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	1086	665
Grp Volume (v), veh/h	74	770	224	82	1258	75	225	84	44	156	0	374
Grp Sat Flow (s), veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1751
Q Serve (g_s), s	7.8	20.2	18.7	8.6	62.2	1.1	24.3	8.5	2.5	6.6	0.0	40.8
Cycle Q Clear (g_c), s	7.8	20.2	18.7	8.6	62.2	1.1	24.3	8.5	2.5	6.6	0.0	40.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.38
Lane Grp Cap (c), veh/h	144	2131	662	144	1485	1106	244	144	250	968	0	401
V/C Ratio (X)	0.52	0.36	0.34	0.57	0.85	0.07	0.92	0.58	0.18	0.16	0.00	0.93
Avail Cap (c_a), veh/h	195	2131	662	231	1485	1106	322	245	336	1139	0	489
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter (I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	86.0	39.0	38.5	86.3	51.1	2.6	83.1	87.0	31.0	52.9	0.0	73.7
Incr Delay (d2), s/veh	2.8	0.5	1.4	3.5	6.2	0.1	26.1	3.7	0.3	0.1	0.0	22.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfC (50%), veh/ln	8.7	8.8	7.7	4.2	29.2	0.6	13.1	4.3	1.2	3.0	0.0	21.0
Unsig. Movement Delay, s/veh												
LnGrp Delay (I), s/veh	88.8	39.4	39.9	89.8	57.3	2.7	109.2	90.7	31.3	53.0	0.0	96.2
LnGrp LOS	F	D	D	F	E	A	F	F	C	D	A	F
Approach Vol, veh/h		1068			1415			353			530	
Approach Delay, s/veh		43.0			56.3			95.1			83.5	
Approach LOS		D			E			F			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	21.5	88.9	32.4	52.2	21.4	89.0	62.1	22.5				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (Gmax), s	25	53.5	* 35	54.5	* 21	57.5	64.3	* 26				
Max Q Clear Time (g_c+I), s	10.6	22.2	26.3	42.8	9.8	64.2	8.6	10.5				
Green Ext Time (p_c), s	0.1	7.1	0.4	1.8	0.1	0.0	0.6	0.4				

Intersection Summary

HCM 6th Ctrl Delay	60.4
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Old Highway 395 Retail Center
3: Old Hwy 395 & Pala Rd

Opening Year w/Proj
Timing Plan: PM PEAK



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↑↑↑	↗	↖	↑↑	↗	↖	↑	↗	↖↗	↖	
Traffic Volume (veh/h)	220	1053	128	27	848	324	98	169	44	161	64	100
Future Volume (veh/h)	220	1053	128	27	848	324	98	169	44	161	64	100
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	232	1108	135	28	893	341	103	178	46	169	67	105
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	195	3130	972	114	2018	1014	122	199	270	248	78	123
Arrive On Green	0.11	0.61	0.61	0.06	0.57	0.57	0.07	0.11	0.11	0.07	0.12	0.12
Sat Flow, veh/h	1781	5106	1585	1781	3554	1585	1781	1870	1585	3456	656	1029
Grp Volume (v), veh/h	232	1108	135	28	893	341	103	178	46	169	0	172
Grp Sat Flow (s), veh/h/ln	1781	1702	1585	1781	1777	1585	1781	1870	1585	1728	0	1685
Q Serve (g_s), s	21.3	20.9	7.0	2.9	28.3	7.4	11.1	18.3	3.8	9.3	0.0	19.5
Cycle Q Clear (g_c), s	21.3	20.9	7.0	2.9	28.3	7.4	11.1	18.3	3.8	9.3	0.0	19.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.61
Lane Grp Cap (c), veh/h	195	3130	972	114	2018	1014	122	199	270	248	0	201
V/C Ratio (X)	1.19	0.35	0.14	0.25	0.44	0.34	0.85	0.89	0.17	0.68	0.00	0.86
Avail Cap (c_a), veh/h	195	3130	972	231	2018	1014	322	245	309	1139	0	471
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter (I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	86.8	18.7	16.0	86.8	24.3	5.0	89.8	86.0	43.8	88.3	0.0	84.2
Incr Delay (d2), s/veh	126.0	0.3	0.3	1.1	0.7	0.9	14.5	27.5	0.3	3.3	0.0	10.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfC (50%), veh/ln	6.7	8.6	2.7	1.4	12.4	3.7	5.7	10.5	1.7	4.3	0.0	9.1
Unsig. Movement Delay, s/veh												
LnGrp Delay (d), s/veh	212.8	19.0	16.3	87.9	25.0	5.9	104.3	113.5	44.1	91.6	0.0	94.2
LnGrp LOS	F	B	B	F	C	A	F	F	D	F	A	F
Approach Vol, veh/h		1475			1262			327			341	
Approach Delay, s/veh		49.2			21.3			100.8			92.9	
Approach LOS		D			C			F			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	68.2	127.0	19.0	30.7	27.0	118.2	21.5	28.3				
Change Period (Y+Rc), s	5.7	7.5	* 5.7	7.5	* 5.7	7.5	7.5	* 7.5				
Max Green Setting (Gmax), s	25	53.5	* 35	54.5	* 21	57.5	64.3	* 26				
Max Q Clear Time (g_c+14.9), s	14.9	22.9	13.1	21.5	23.3	30.3	11.3	20.3				
Green Ext Time (p_c), s	0.0	10.2	0.2	1.1	0.0	8.7	0.6	0.5				
Intersection Summary												
HCM 6th Ctrl Delay			48.2									
HCM 6th LOS			D									
Notes												
User approved pedestrian interval to be less than phase max green.												
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.												

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Opening Year w/Proj
Timing Plan: AM PEAK

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		↑		↑	
Traffic Vol, veh/h	18	19	23	177	581	20
Future Vol, veh/h	18	19	23	177	581	20
Conflicting Feds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	20	21	25	192	632	22

Major/Minor	Minor2	Major1	Major2		
Conflicting Flow All	885	643	654	0	0
Stage 1	643	-	-	-	-
Stage 2	242	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	315	473	933	-	-
Stage 1	523	-	-	-	-
Stage 2	798	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	306	473	933	-	-
Mov Cap-2 Maneuver	306	-	-	-	-
Stage 1	507	-	-	-	-
Stage 2	798	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15.8	1	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	933	-	374	-	-
HCM Lane V/C Ratio	0.027	-	0.108	-	-
HCM Control Delay (s)	9	0	15.8	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.4	-	-

Old Highway 395 Retail Center
4: Old Hwy 395 & N Proj Dwy

Opening Year w/Proj
Timing Plan: PM PEAK

Intersection

Int Delay, s/veh 1

Movement EBL EBR NBL NBT SBT SBR

Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	23	25	26	770	220	24
Future Vol, veh/h	23	25	26	770	220	24
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	25	27	28	837	239	26

Major/Minor Minor2 Major1 Major2

Conflicting Flow All	1145	252	265	0	-	0
Stage	252	-	-	-	-	-
Stage 2	893	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	221	787	1299	-	-	-
Stage 1	790	-	-	-	-	-
Stage 2	400	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	212	787	1299	-	-	-
Mov Cap-2 Maneuver	212	-	-	-	-	-
Stage 1	758	-	-	-	-	-
Stage 2	400	-	-	-	-	-

Approach EB NB SB

HCM Control Delay, s	17.4	0.3	0
HCM LOS	C		

Minor Lane/Minor Mvmt NBL NBT EBLn1 SBT SBR

Capacity (veh/h)	1299	-	342	-	-
HCM Lane V/C Ratio	0.022	-	0.153	-	-
HCM Control Delay (s)	7.8	0	17.4	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.5	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Opening Year w/Proj
Timing Plan: AM PEAK

Intersection

Int Delay, s/veh 1.6

Movement

	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↓	
Traffic Vol, veh/h	27	34	43	166	577	31
Future Vol, veh/h	27	34	43	166	577	31
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	37	47	180	627	34

Major/Minor

	Minor2	Major1	Major2			
Conflicting Flow All	918	644	661	0	-	0
Stage 1	644	-	-	-	-	-
Stage 2	274	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	302	473	927	-	-	-
Stage 1	523	-	-	-	-	-
Stage 2	772	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	285	473	927	-	-	-
Mov Cap-2 Maneuver	285	-	-	-	-	-
Stage 1	494	-	-	-	-	-
Stage 2	772	-	-	-	-	-

Approach

	EB	NB	SB
HCM Control Delay, s	17	1.9	0
HCM LOS	C		

Minor Lane/Major Mvmt

	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	927	-	366	-	-
HCM Lane V/C Ratio	0.05	-	0.181	-	-
HCM Control Delay (s)	9.1	0	17	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.2	-	0.7	-	-

Old Highway 395 Retail Center
5: Old Hwy 395 & S Proj Dwy

Opening Year w/Proj
Timing Plan: PM PEAK

Intersection						
Int Delay, s/veh	2.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↖			↗	↘	
Traffic Vol, veh/h	45	66	68	745	216	47
Future Vol, veh/h	45	66	68	745	216	47
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	49	72	74	810	235	51
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	1219	261	286	0	-	0
Stage	261	-	-	-	-	-
Stage 2	958	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	199	778	1276	-	-	-
Stage 1	783	-	-	-	-	-
Stage 2	373	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	178	778	1276	-	-	-
Mov Cap-2 Maneuver	178	-	-	-	-	-
Stage 1	701	-	-	-	-	-
Stage 2	373	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	22.1	0.7		0		
HCM LOS	C					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1276	-	329	-	-	
HCM Lane V/C Ratio	0.058	-	0.367	-	-	
HCM Control Delay (s)	8	0	22.1	-	-	
HCM Lane LOS	A	A	C	-	-	
HCM 95th %tile Q(veh)	0.2	-	1.6	-	-	