

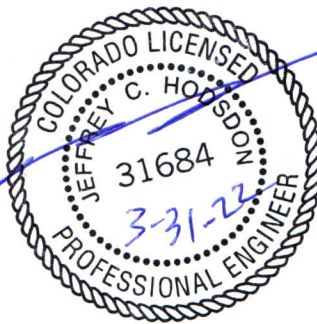


LSC TRANSPORTATION CONSULTANTS, INC.  
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Latigo Preserve Filing No. 10  
Traffic Impact Analysis  
PCD File No. SF-21-36  
(LSC #S214500)  
March 31, 2022

**Traffic Engineer's Statement**

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



**Developer's Statement**

I, the Developer, have read and will comply with all commitments made on my behalf within this report.

A handwritten signature in blue ink, likely of the Developer, is written above the signature line.

\_\_\_\_\_, Manager, BRJM, LLC

\_\_\_\_\_, 4/1/22

\_\_\_\_\_  
Date

# Latigo Preserve Filing No. 10

## Traffic Impact Analysis

Prepared for:  
BRJM c/o  
Mr. Robert C. Irwin  
P.O. Box 60069  
Colorado Springs, CO 80960-0069

MARCH 31, 2022

---

LSC Transportation Consultants  
Prepared by: Kirstin D. Ferrin, P.E.  
Reviewed by: Jeffrey C. Hodsdon, P.E.

LSC #S214500



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Level of Service Reports

MTCP Maps

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BRJM, LLC Letter dated January 28, 2022



**LSC TRANSPORTATION CONSULTANTS, INC.**  
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March 31, 2022

BRJM c/o  
Mr. Robert C. Irwin  
P.O. Box 60069  
Colorado Springs, CO 80960-0069

RE: Latigo Preserve Filing No. 10  
2022 Amendment  
El Paso County, CO  
Traffic Impact Analysis  
LSC #S214250

Dear Mr. Irwin:

In response to your request, LSC Transportation Consultants, Inc. has prepared this traffic impact analysis for the proposed Latigo Preserve Filing No. 10. As shown in Figure 1, the site is located generally southwest of the intersection of Eastonville Road and Latigo Boulevard in El Paso County, Colorado.

## **REPORT CONTENTS**

This report is being prepared as part of a submittal to El Paso County. The report identifies the traffic impacts of the proposed residential development and presents recommendations for the transportation system. The report contains the following:

- The existing roadway and traffic conditions in the site's vicinity, including the roadway widths, lane geometries, and traffic controls, etc.;
- The peak-hour turning-movement traffic counts at key intersections in the vicinity of the site;
- The average week-day and peak-hour vehicle trips to be generated by the site;
- The assignment of these trips to the area streets, roadways, and intersections;
- Projections of long-term background traffic volumes;
- Resulting total traffic volumes on the area roadways;
- The projected levels of service at key intersections the vicinity of the site; and
- The recommended transportation system, including functional classification of streets and roadways, number of lanes, intersection lane geometry/auxiliary turn lanes, and intersection traffic control.

## **PREVIOUS TRAFFIC REPORTS COMPLETED IN THE AREA**

Appendix Table 1 contains a list of other traffic studies in the study area completed within the past five years (that LSC is aware of). This study accounts for the land use, trip generation, and the roadway network included in these studies.

## **LAND USE AND ACCESS**

### **Land Use and Access**

Latigo Preserve Filing No. 10 is planned to each be developed with 39 lots for single-family homes. Initially, access is proposed to Latigo Boulevard at the intersections of Oregon Wagon Trail, Lonesome Pine Trail, and Ponca Canyon Trail via the existing road system. In the future, a more direct connection to Eastonville Road would be available through the future development areas located east of the currently-proposed filing to an intersection (Conestoga Trail South) about 5,080 feet south of Latigo Boulevard and about 3,020 feet north of the future alignment of Rex Road. Figure 2 shows the site context map with the proposed Filing No. 10 lot layout.

### **Sight Distance**

The entering sight distance at the future intersection of Conestoga Trail South/Eastonville was measured to be greater than 1,000 feet to the north and about 410 feet to the south. Based on the criteria contained in Table 2-21 of the El Paso County *Engineering Criteria Manual (ECM)* and the design speed of 50 miles per hour (mph) (posted speed limit of 45 mph), the required intersection sight distance is 555 feet. Pikes Peak Rural Transportation Authority (PPRTA)-funded improvements are anticipated on this section of Eastonville Road. The sight distance to the south is currently restricted by the existing vertical profile of Eastonville Road. It is anticipated that with the PPRTA improvements, the sight distance would meet *ECM* standards, provided vegetation, landscaping, fencing, walls, etc. are kept clear of the corner sight distance.

### **Pedestrian Access**

There is a planned 30-foot pedestrian facility extending north/south through the development, which will extend to the property's south boundary and be connected to the Meridian Ranch pedestrian circulation system to provide access to the schools. Sidewalks are not required within Latigo Trails as the roadways are "rural" rather than "urban."

Regarding pedestrian facilities planned within the adjacent Meridian Ranch development to the south, school pedestrian plans were provided with the adjacent Estates at Rolling Hills Ranch and Rolling Hills Ranch at Meridian Ranch Filing Nos. 1 through 3. As preliminary plans/final plats are prepared in the neighboring Meridian Ranch Sketch Plan amendment areas, LSC anticipates that pedestrian connectivity will be addressed. Note: it is our understanding that sidewalks will be provided adjacent to all local streets within the future development areas within Meridian Ranch

to the south and on both the north and south sides of Rex Road between Estates Ridge Drive and Eastonville Road.

## **ROADWAY AND TRAFFIC CONDITIONS**

### **Area Roadways**

The major area roadways within and adjacent to Meridian Ranch are described below. Copies of the 2016 *El Paso County Major Transportation Corridors Plan (MTCP)* 2040 Roadway Plan and 2016 *MTCP* 2060 Corridor Preservation Plan with the site location identified on them have been attached to this report.

**Meridian Road** extends north from South Blaney Road to County Line Road. The posted speed limit on Meridian Road in the vicinity of Latigo Boulevard is 55 miles per hour (mph). Meridian Road is shown on the *El Paso County MTCP* as a four-lane Principal Arterial south of Rex Road, a four-lane Minor Arterial north of Rex Road, and a two-lane Minor Arterial north of Murphy Road.

**Latigo Boulevard** is a two-lane Collector extending east from Meridian Road to Elbert Road. The posted speed limit is 45 mph.

**Eastonville Road** is a two-lane roadway extending northeast from Meridian Road past Hodgen Road. It has a gravel surface and a posted speed limit of 45 mph north of Londonderry Drive. Eastonville Road is shown as a two-lane Minor Arterial on the *MTCP*. The section north of Stapleton Drive has been identified as a two-lane Rural Minor Arterial on the 2016 *MTCP*. The *Conceptual Design Report Eastonville Road Project* prepared by Wilson & Company Inc. in April 2021 shows a future urban cross section (curb & gutter) with one through lane in each direction, painted center median for left-turn lanes at intersections, and six-foot paved outside shoulders between Meridian Road and Latigo Boulevard. The segment between Rex Road and Latigo Boulevard is identified as part of Phase 2 of the project. Phase 1 of the project is currently in the planning and preliminary design stage.

### **Existing Traffic Volumes**

Figure 3 shows the peak-hour traffic volumes at the study-area intersections from the attached traffic counts conducted by LSC in June 2021.

### **Existing Levels of Service**

Level of service (LOS) is a quantitative measure of the level of delay at an intersection. Level of service is indicated on a scale from "A" to "F." LOS A represents control delay of less than 10 seconds for unsignalized and signalized intersections. LOS F represents control delay of more than 50 seconds for unsignalized intersections and more than 80 seconds for signalized intersections. Table 1 shows the level of service delay ranges.

**Table 1: Level of Service Delay Ranges**

Level of Service	Signalized Intersections	Unsignalized Intersections
	Average Control Delay (seconds per vehicle)	Average Control Delay (seconds per vehicle) <sup>(1)</sup>
A	10.0 sec or less	10.0 sec or less
B	10.1-20.0 sec	10.1-15.0 sec
C	20.1-35.0 sec	15.1-25.0 sec
D	35.1-55.0 sec	25.1-35.0 sec
E	55.1-80.0 sec	35.1-50.0 sec
F	80.1 sec or more	50.1 sec or more
(1) For unsignalized intersections, if V/C ratio is greater than 1.0 the level of service is LOS F, regardless of the projected average control delay per vehicle.		

Figure 3 presents the results of the existing intersection level of service analysis. The levels of service are based on the unsignalized method of analysis procedures from the *Highway Capacity Manual, 6th Edition* by the Transportation Research Board. The level of service reports are attached.

The intersections of Latigo/Oregon Wagon, Latigo/Lonesome Pine, Latigo/Ponca Canyon, and Latigo/Eastonville are currently two-way, stop-sign controlled. All movements at these intersections are currently operating at LOS A during the morning peak hour and LOS B during the afternoon peak hour.

## **BACKGROUND TRAFFIC**

Background traffic is the traffic estimated to be on the study-area streets without consideration of the land uses within the Amendment area. It includes through traffic and traffic generated by adjacent/nearby developments.

Figure 4 shows the projected 2041 background traffic volumes. The 2041 background traffic volumes assume buildout of the Latigo Preserve, Meridian Ranch, Grandview Reserve, and Waterbury developments but assume no traffic generated by the currently-proposed Latigo Preserve Filing No. 10. The 2041 background traffic volumes also assume the parcels located north of Rex Road and east of Eastonville Road are developed with 2 ½ acre lots similar to those currently proposed for Latigo Preserve. The 2041 background volumes may be conservative as there are currently no known plans for these parcels and the *El Paso County 2016 Major Transportation Corridors Plan Update* only shows 400 vehicles per day on Latigo Boulevard east of Eastonville Road by 2040.

## **TRIP GENERATION**

The trip-generation estimates for the site are based on nationally published trip-generation rates from *Trip Generation, 11th Edition, 2021* by the Institute of Transportation Engineers (ITE). Table 2 shows the results of the trip-generation estimates.

Latigo Preserve Filing No. 10 is expected to generate about 368 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. During the morning peak hour, which generally occurs for one hour between 6:30 a.m. and 8:30 a.m., about 7 vehicles would enter and 20 vehicles would exit the site. During the afternoon peak hour, which generally occurs for one hour between 4:15 p.m. and 6:15 p.m., about 23 vehicles would enter and 14 vehicles would exit the site.

## **TRIP DISTRIBUTION AND ASSIGNMENT**

### **Trip Distribution**

The directional distribution of the traffic volumes to be generated by the site on the area roadways is an important factor in determining the traffic impacts. Figure 5 shows the directional-distribution estimate for the trips estimated to be generated by the site. The estimates were based on the following factors: the location of the site with respect to nearby residential, employment, commercial, and activity centers and the balance of the Colorado Springs metropolitan area; the land-use types; the internal/external street and roadway system serving the site; and the existing traffic counts.

The short-term distribution estimate is based on the existing road network and the long-term distribution assumes buildout of the area road network, including the extension of Rex Road from its existing terminus to US Highway 24.

### **Assignment of Site-Generated Trips**

When the estimated site trips (from Table 2) are directionally distributed according to the LSC-estimated percentages shown in Figure 5 and assigned/routed on the internal and area road network (according to LSC estimates), the resulting projected site-generated traffic volumes can be determined.

Figure 6 shows the projected short-term traffic volumes at the key area intersections due to Latigo Preserve Filing No. 10. The short-term estimates assume Latigo Preserve will only have access to the intersections of Latigo/Oregon Wagon, Latigo/Lonesome Pine, and Latigo/Ponca Canyon via the existing road network.

Figure 7 shows the projected long-term traffic volumes at the key area intersections due to Latigo Preserve Filing No. 10. The long-term estimates assume Latigo Preserve will have access through the future filing areas to the south and east to Eastonville Road.

## **TOTAL TRAFFIC**

Figure 8 shows the sum of the existing traffic volumes (from Figure 3) and the short-term amendment-area-generated traffic volumes (from Figure 6).

Figure 9 shows the projected 2041 total traffic volumes at the area intersections. These volumes are the sum of the 2041 background traffic volumes (from Figure 4) and the long-term site-generated traffic volumes (from Figure 7).

## **PROJECTED LEVELS OF SERVICE**

The key area intersections and access points were analyzed to determine the projected levels of service for the existing-plus-site-generated and 2041 background and total traffic volumes, based on the unsignalized-intersection analysis procedures from the *Highway Capacity Manual* and the signalized-intersection analysis procedures from the Synchro computer program. Figures 4, 8, and 9 show the level of service analysis results. The level of service reports are attached.

### **Eastonville Road/Latigo Boulevard**

The intersection of Latigo/Meridian is currently two-way, stop-sign controlled. All movements at this intersection are projected to continue to operate at LOS A during peak hours with the addition of site-generated traffic. By 2041, it was assumed that Eastonville Road would be improved to a Minor Arterial cross section and that northbound and southbound left-turn lanes would be constructed approaching Latigo Boulevard. Based on the 2041 traffic volumes and lane geometry shown in Figure 9, all movements at this intersection are projected to operate at LOS B or better during the peak hours.

### **Latigo Boulevard Access Points**

The intersections of Latigo/Oregon Wagon, Latigo/Lonesome Pine, and Latigo/Ponca Canyon are currently two-way, stop-sign controlled. All movements at these intersections are projected to continue to operate at LOS A during the peak hours with the addition of site-generated traffic. By 2041, all movements at these intersections are projected to operate at LOS B or better during the peak hours.

### **Eastonville Road Access Point**

The future intersection of Eastonville Road/Conestoga Trail South is projected to operate at LOS B or better during the peak hours for all movements, based on the projected 2041 total traffic volumes and lane geometry shown in Figure 8.

## FUNCTIONAL CLASSIFICATIONS

Figure 10 shows the recommended functional classifications for the roadways within the site and in the vicinity. The functional classifications are consistent with the current El Paso County *MTCP*, with the exception of the potential urban cross section for Eastonville.

## ROAD IMPROVEMENT FEE PROGRAM

This project will be required to participate in the El Paso County Road Improvement Fee Program. Latigo Preserve Filings No. 10 will join the ten-mil PID. The ten-mil PID building permit fee portion associated with this option is \$1,221 per single-family dwelling unit. The total building permit fee would be \$47,619 for the 39 lots within Filing No. 10.

## CONCLUSIONS AND RECOMMENDATIONS

- Latigo Preserve Filing No. 10 is expected to generate about 368 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. During the morning peak hour, about 7 vehicles would enter and 20 vehicles would exit the site. During the afternoon peak hour, about 23 vehicles would enter and 14 vehicles would exit the site.
- All of the study-area intersections are projected to operate at a satisfactory level of service (LOS D or better) through 2041 as two-way, stop-sign-controlled intersections.
- Table 3 presents the future roadway improvements table.
- Based on the traffic volumes shown in Figure 8, no additional auxiliary lane improvements are anticipated to be required with the addition of site-generated traffic (short-term total traffic). Figure 9 shows (for reference and for purposes of the LOS analysis) assumed potential future auxiliary turn lanes at the intersection of Eastonville Road/Latigo Boulevard. Laneage at this intersection will likely be addressed with Phase 2 of the PPRTA Eastonville project or with future area development (as applicable). Figure 9 also shows a potential future northbound left-turn lane at the Eastonville/Conestoga Trail intersection (future), the need and timing of which will be addressed with the future filing which will be to the east of Filing 10.
- Eastonville Road is currently non-paved (gravel) north of Londonderry Drive. Based on the estimated existing average weekday traffic volume of 480 vehicles per day south of Latigo Boulevard and the criteria contained in the El Paso County *Engineering Criteria Manual (ECM)*, this roadway currently exceeds the County *ECM* threshold for roadway paving. The section of Eastonville Road between Rex Road (future) and Latigo Boulevard was identified as Phase 2 in the Eastonville Road Project Conceptual Design Report by Wilson & Company, dated April 2021. That report recommended, for Phases 1 and 2, a proposed Urban cross section including one through lane in each direction, a striped center median for left turns, six-foot outside shoulders and a detached sidewalk. However, as the segment between Rex Road and Latigo Boulevard is identified as part of Phase 2 of the project, El Paso County staff indicated the potential for phasing of improvements to this

segment, calling out the need for a paved roadway prior to Phase 2 of the RTA project.  
Please refer to the attached letter by BRJM, LLC.

\* \* \* \* \*

Please contact me if you have any questions regarding this report.

Sincerely,

LSC TRANSPORTATION CONSULTANTS, INC.

By Jeffrey C. Hodsdon, P.E.  
Principal

JCH/KDF:jas

Enclosures: Tables 2 and 3  
Figures 1-9  
Traffic Counts  
Level of Service Reports  
MTCP Maps  
Appendix Table 1  
BRJM, LLC Letter dated January 28, 2022

## Tables 2 and 3

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<p style="text-align: center;"><b>Table 2</b></p> <p style="text-align: center;"><b>Trip Generation Estimate</b></p> <p style="text-align: center;"><b>Latigo Preserve Filing 10</b></p>
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Land Use Code	Land Use Description	Trip Generation Units	Trip Generation Rates <sup>(1)</sup>						Total Trips Generated			
			Average Weekday Traffic	Morning Peak Hour		Afternoon Peak Hour		Average Weekday Traffic	Morning Peak Hour		Afternoon Peak Hour	
				In	Out	In	Out		In	Out	In	Out
210	Single-Family Detached Housing	39 DU <sup>(2)</sup>	9.43	0.18	0.52	0.59	0.35	368	7	20	23	14

Notes:
(1) Source: " <i>Trip Generation, 11th Edition, 2021</i> " by the Institute of Transportation Engineers (ITE)
(2) DU = dwelling unit

(1) Source: "Trip Generation, 11th Edition, 2021" by the Institute of Transportation Engineers (ITE)

(2) DU = dwelling unit

Source: LSC Transportation Consultants, Inc. Mar-22

Mar-22

**Table 3**  
**Roadway Improvements Table**  
Latigo Preserve Filing No. 10

Item #	Improvement	Segment/Additional Details	Trigger	Timing	Responsibility
<b>Roadway Segment Improvements</b>					
1	Eastonville Road: Upgrade from gravel roadway to Rural Minor Arterial (per MUTCD)	Londonderry Drive to Rex Road	average daily traffic > 200 vehicles per day	Existing deficiency - Currently in planning & preliminary design stage.	Phase 1 of the Eastonville Road PPRTA project
2	Eastonville Road - Roadway <b>Paving</b>	Rex Road to Latigo Boulevard	average daily traffic > 200 vehicles per day	existing deficiency	Please refer to the January 28, 2022 letter dated by BRJM, LLC (attachment to this TIS report)
3	Eastonville Road - upgrade to Urban Minor Arterial	Rex Road to Latigo Boulevard	TBD	TBD	Please refer to the January 28, 2022 letter dated by BRJM, LLC (attachment to this TIS report)
Source: LSC Transportation Consultants, Inc. (March 2022)					

## Figures 1-9

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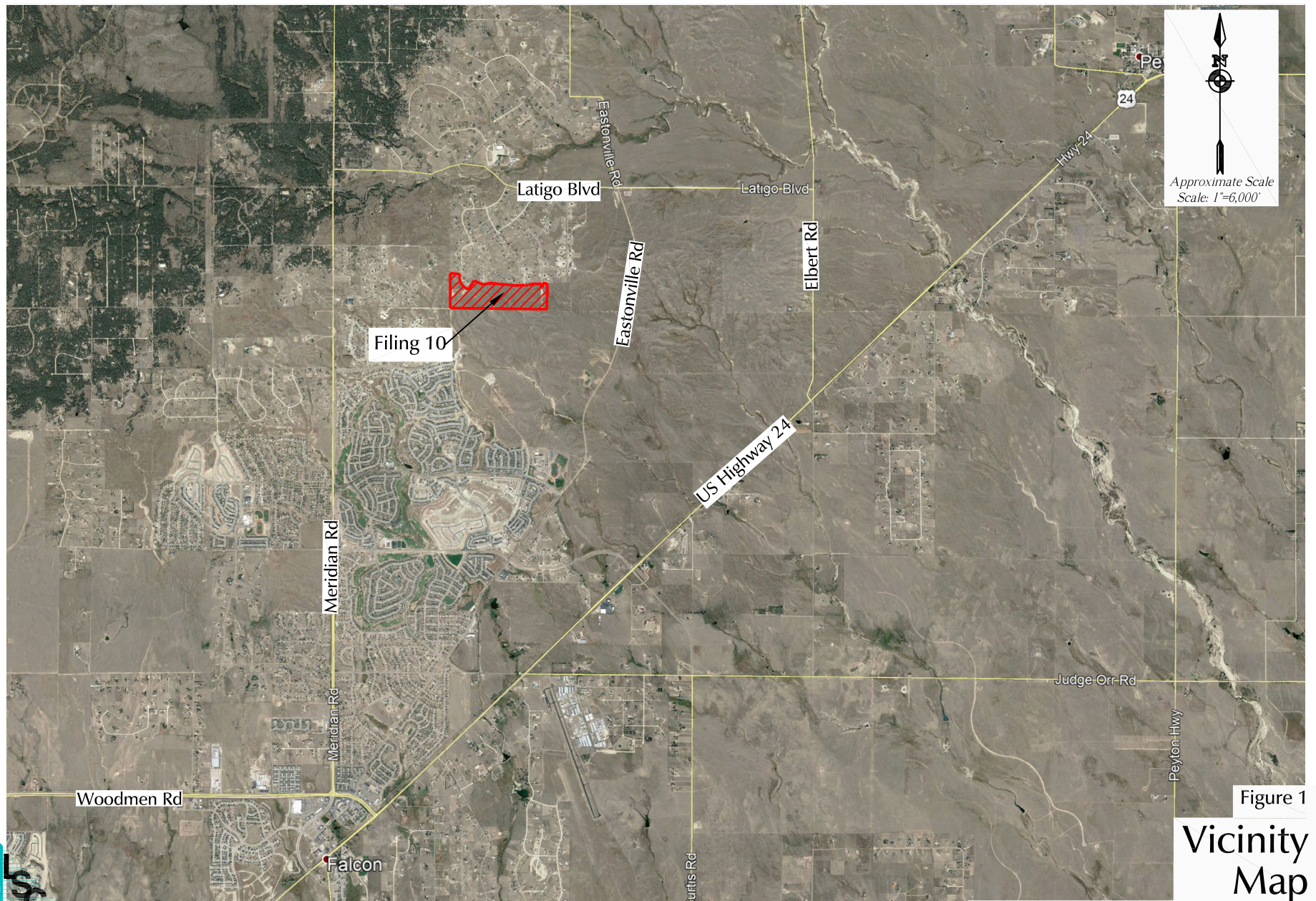
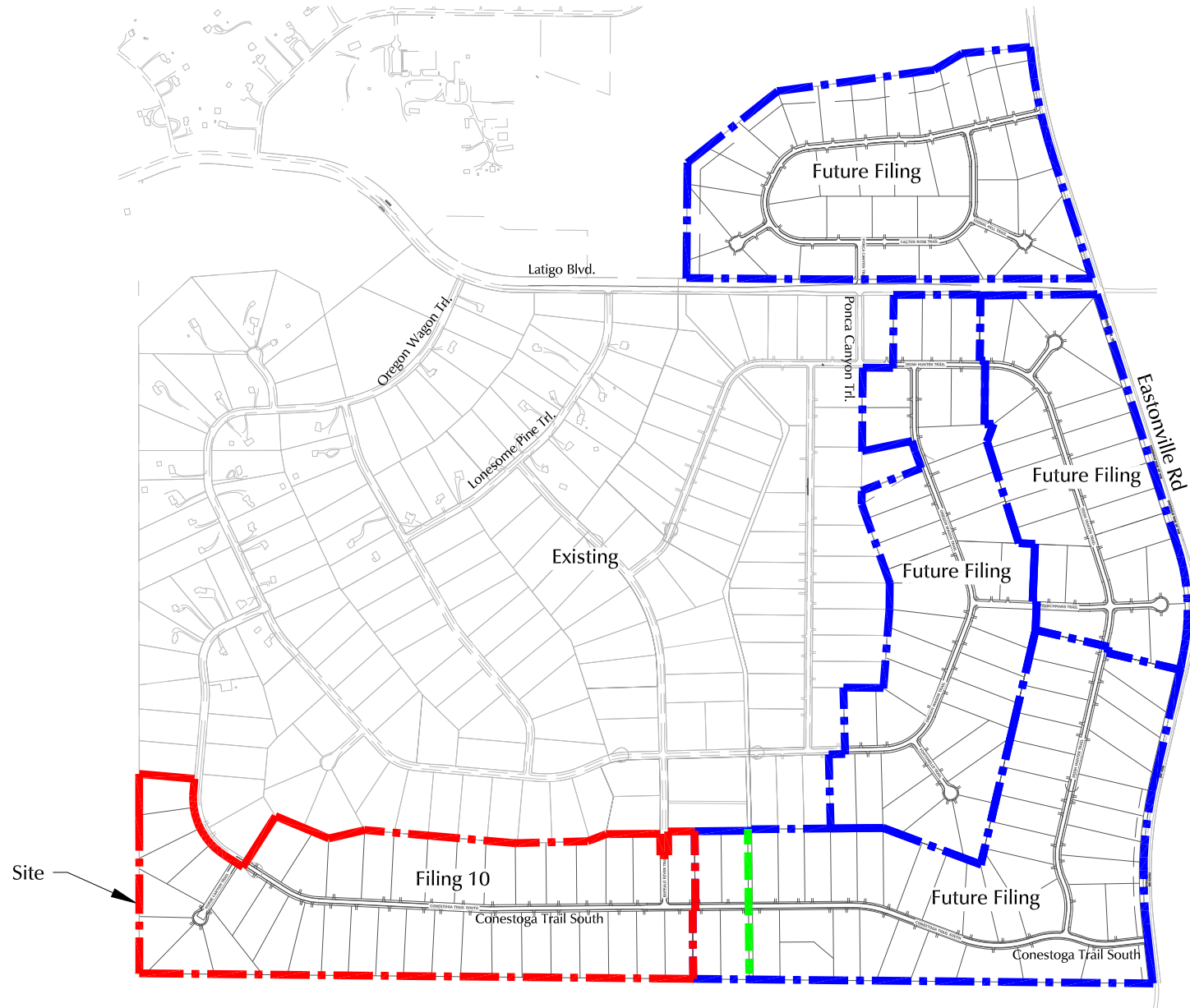


Figure 1

## Vicinity Map

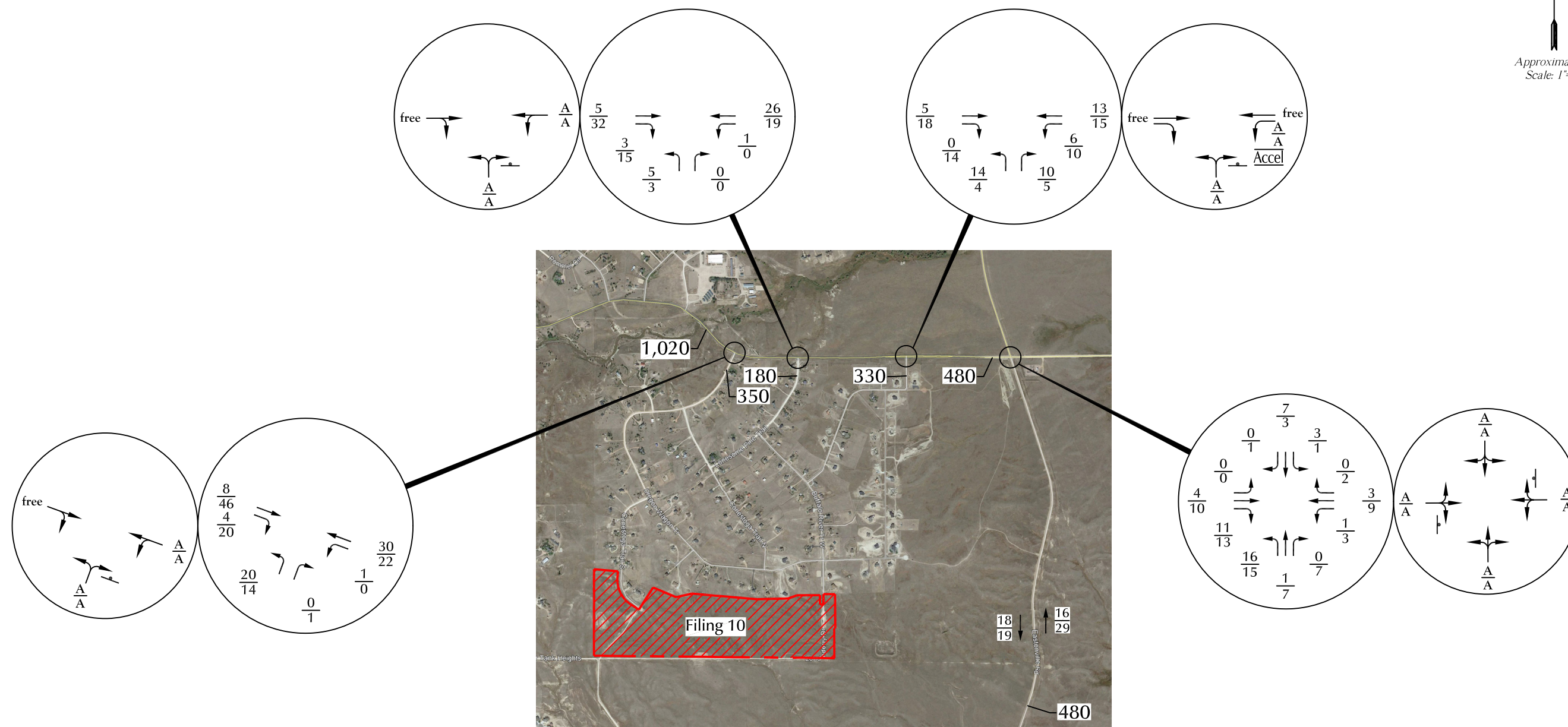
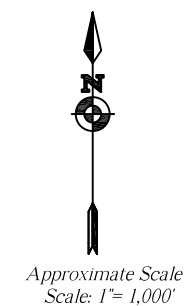
Latigo Trails Filing 10 (LSC #S214500)



Approximate Scale  
Scale: 1"= 1,200'

Figure 2

**Site Context Map**  
Latigo Trails Filing 10 (LSC #S214500)



# LEGEND:

⊥ = Stop Sign

$\frac{XX}{XX}$  =  $\frac{\text{AM Weekday Peak-Hour Traffic (vehicles per hour)}}{\text{PM Weekday Peak-Hour Traffic (vehicles per hour)}}$  Based on counts by LSC June 2021

$\frac{A}{B}$  =  $\frac{\text{AM Individual Movement Peak-Hour Level of Service}}{\text{PM Individual Movement Peak-Hour Level of Service}}$

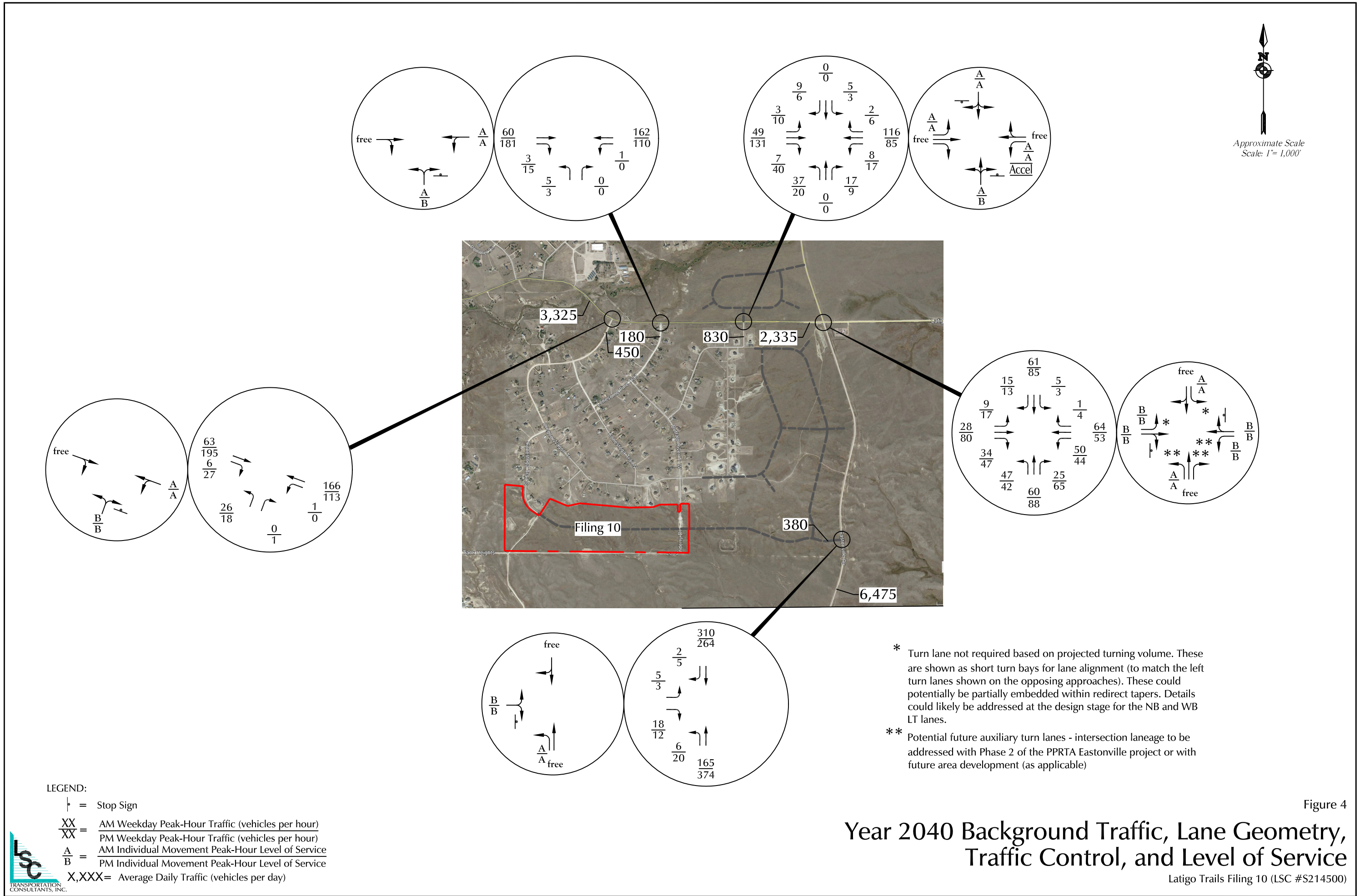
X,XXX= Average Daily Traffic (vehicles per day) Estimated by LSC

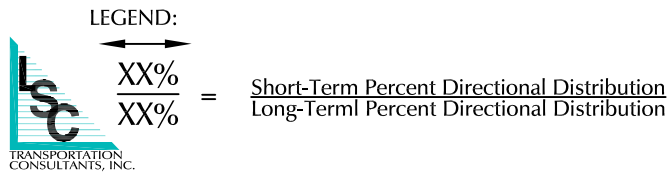
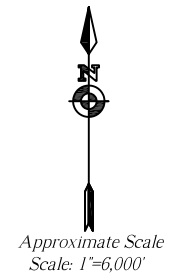
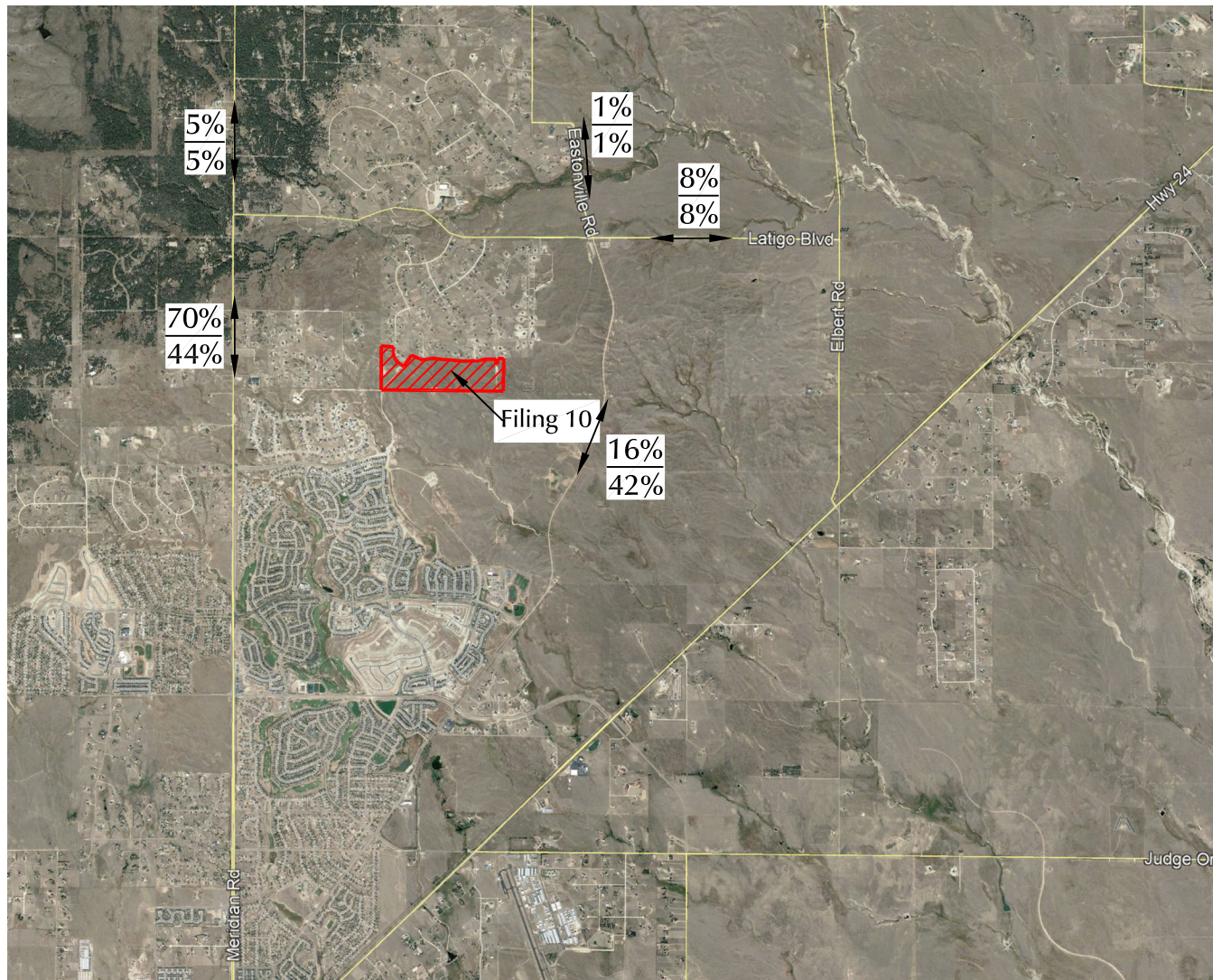


Figure 3

## Existing Traffic, Lane Geometry, Traffic Control, and Level of Service

Latigo Trails Filing 10 (LSC #S214500)

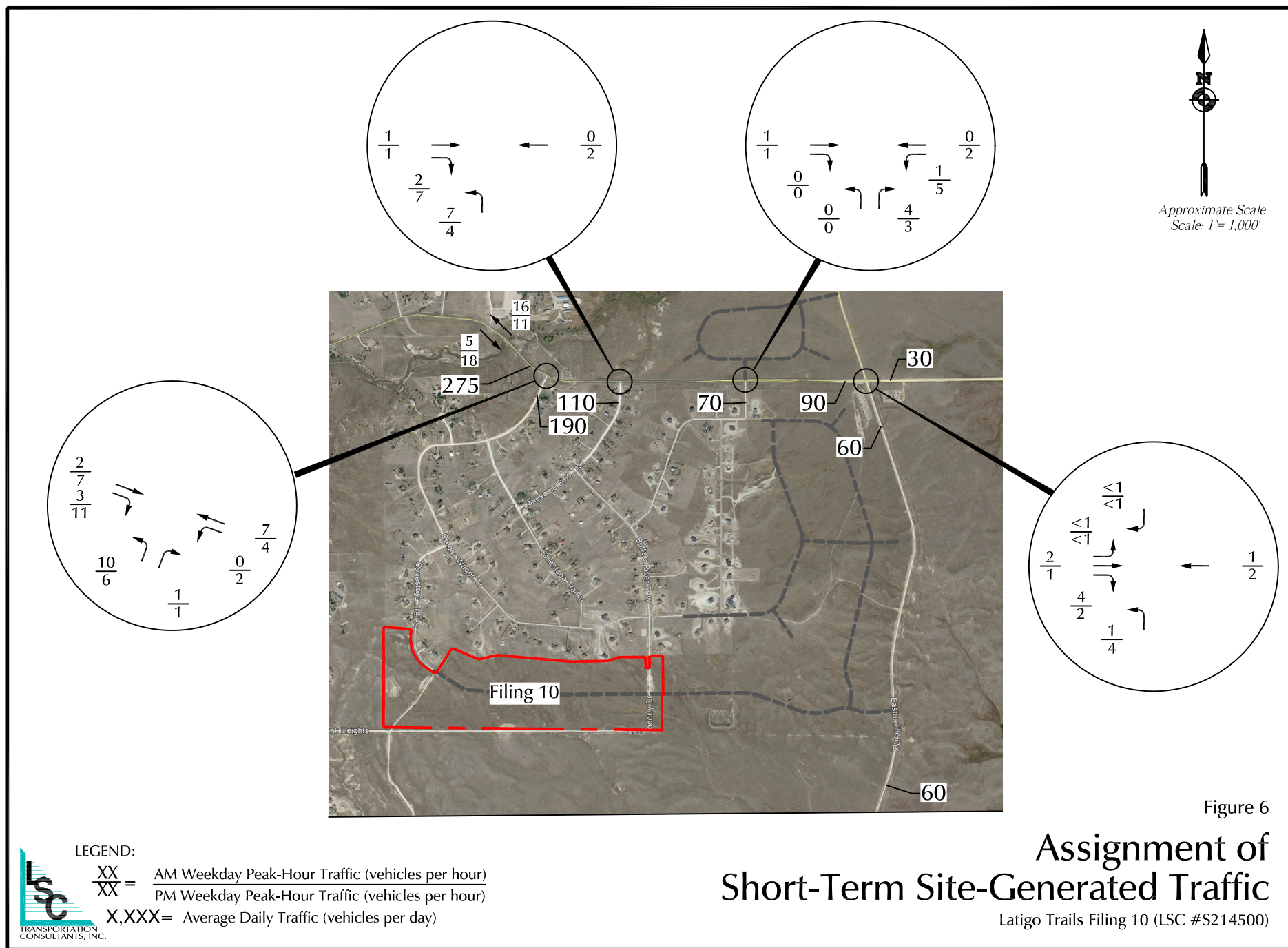




## Directional Distribution of Site-Generated Traffic

Latigo Trails Filing 10 (LSC #S214500)

Figure 5



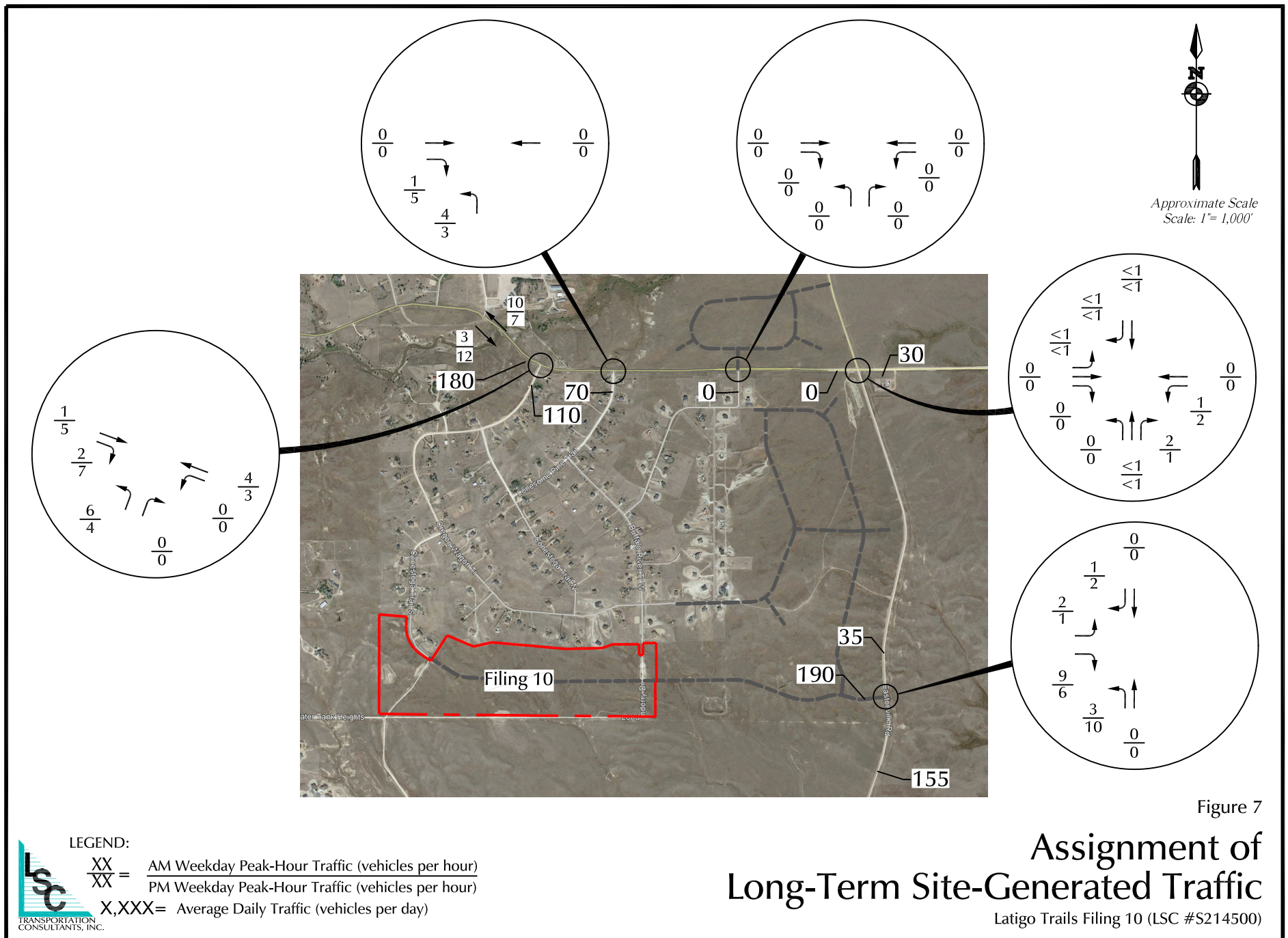
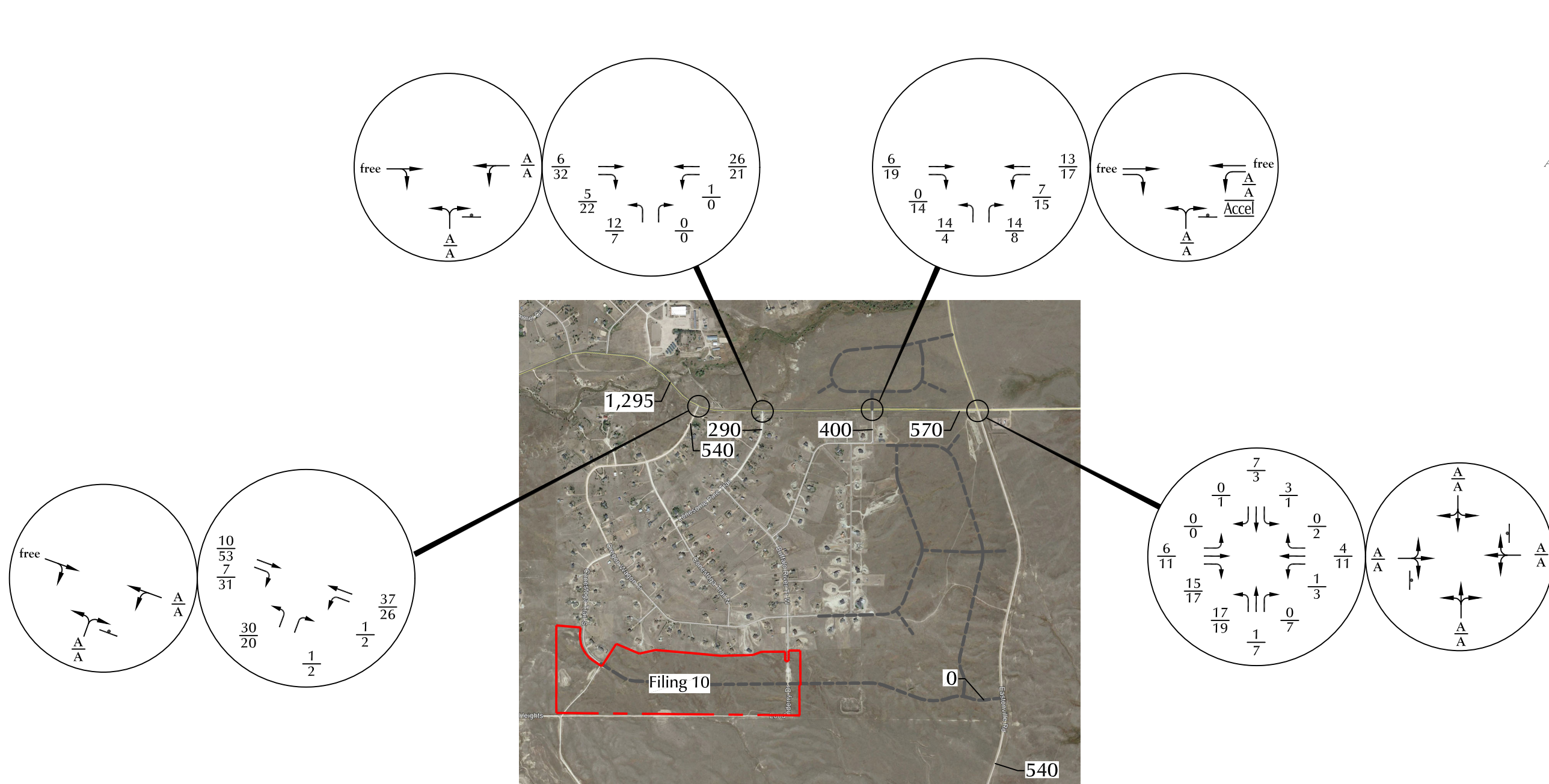


Figure 7

# Assignment of Long-Term Site-Generated Traffic

Latigo Trails Filing 10 (LSC #S214500)



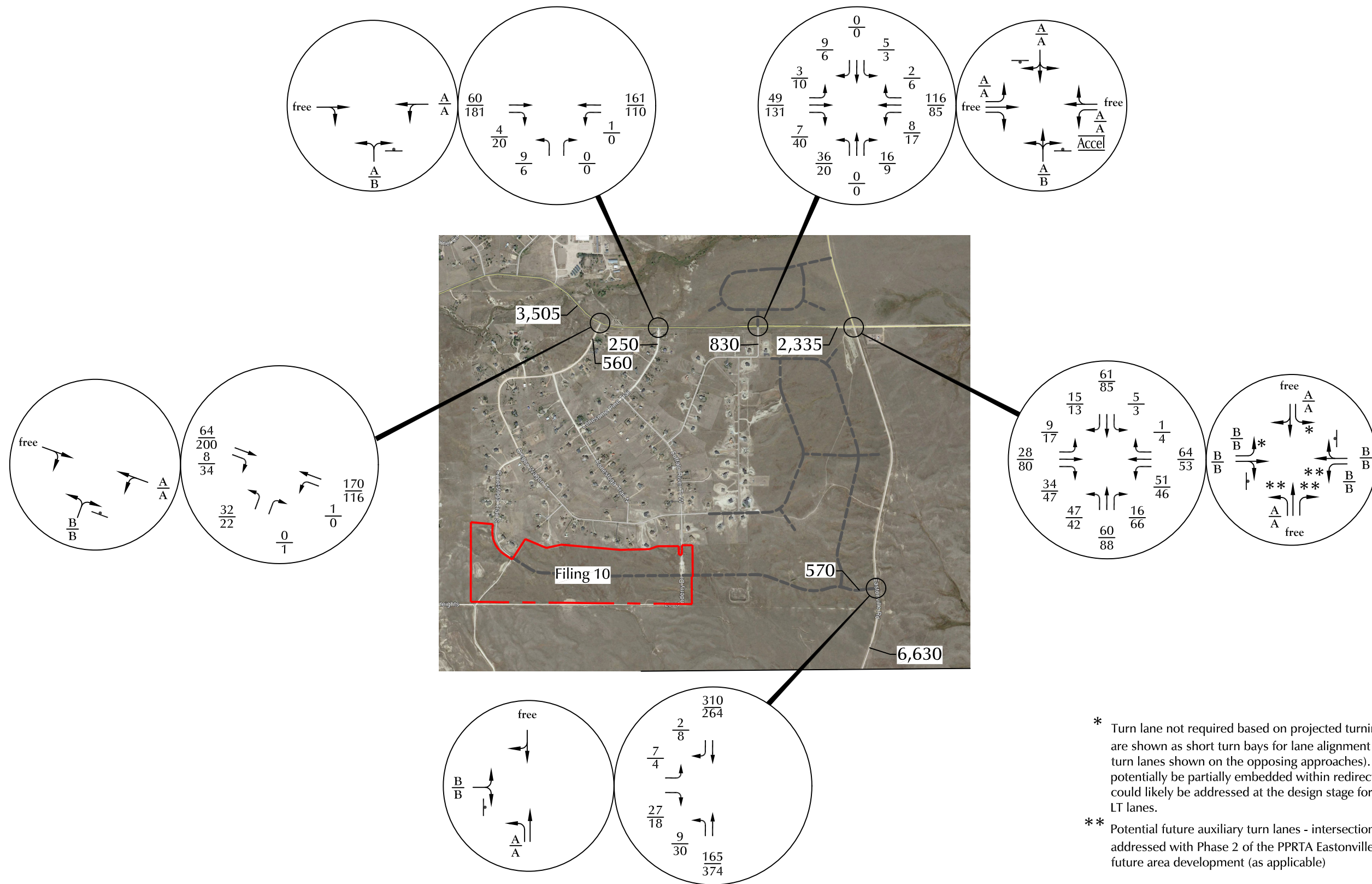
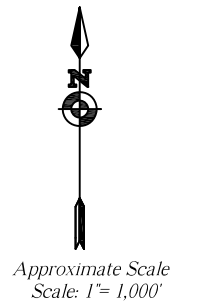
Approximate Scale  
Scale: 1" = 1,000'

LEGEND:

- | = Stop Sign
- $\frac{XX}{XX}$  = AM Weekday Peak-Hour Traffic (vehicles per hour)  
PM Weekday Peak-Hour Traffic (vehicles per hour)
- $\frac{A}{B}$  = AM Individual Movement Peak-Hour Level of Service  
PM Individual Movement Peak-Hour Level of Service
- X,XXX = Average Daily Traffic (vehicles per day)



Figure 8  
Existing plus Site-Generated Traffic, Lane Geometry,  
Traffic Control, and Level of Service  
Latigo Trails Filing 10 (LSC #S214500)



#### LEGEND:

- = Stop Sign
- $\frac{XX}{XX}$  = AM Weekday Peak-Hour Traffic (vehicles per hour)  
PM Weekday Peak-Hour Traffic (vehicles per hour)
- $\frac{A}{B}$  = AM Individual Movement Peak-Hour Level of Service  
PM Individual Movement Peak-Hour Level of Service
- X,XXX= Average Daily Traffic (vehicles per day)

- \* Turn lane not required based on projected turning volume. These are shown as short turn bays for lane alignment (to match the left turn lanes shown on the opposing approaches). These could potentially be partially embedded within redirect tapers. Details could likely be addressed at the design stage for the NB and WB LT lanes.
- \*\* Potential future auxiliary turn lanes - intersection laneage to be addressed with Phase 2 of the PPRTA Eastonville project or with future area development (as applicable)

Figure 9  
Year 2040 Total Traffic, Lane Geometry,  
Traffic Control, and Level of Service  
Latigo Trails Filing 10 (LSC #S214500)

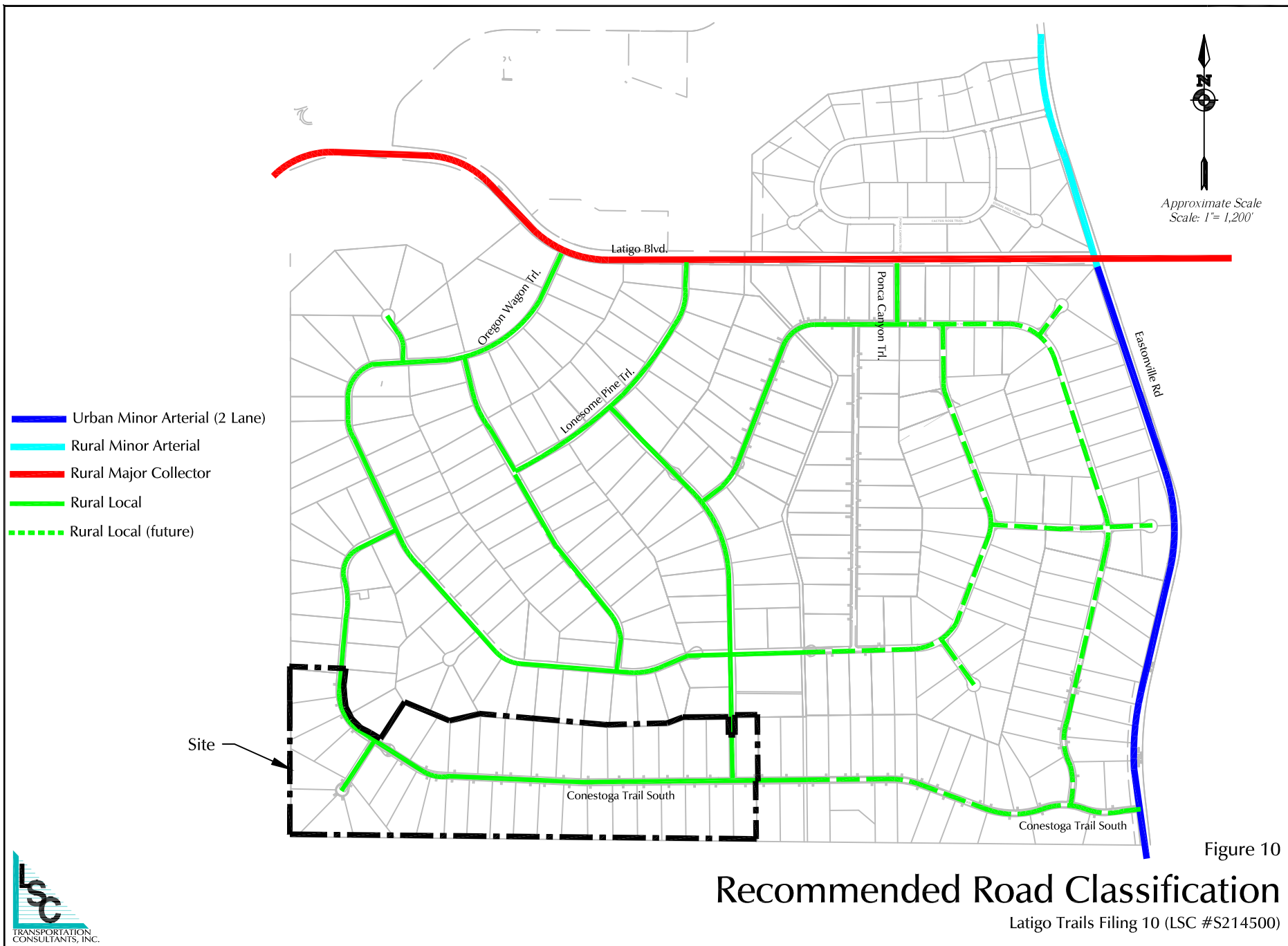


Figure 10  
Recommended Road Classification

Latigo Trails Filing 10 (LSC #S214500)

# Traffic Counts

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# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Eastonville Rd - Latigo Blvd AM  
Site Code : S214500  
Start Date : 6/9/2021  
Page No : 1

## Groups Printed- Unshifted

	Eastonville Rd Southbound					Latigo Blvd Westbound					Eastonville Rd Northbound					Latigo Blvd Eastbound					
Start Time	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	Int. Total
06:30 AM	1	1	0	0	2	1	0	0	0	1	2	1	1	0	4	0	0	3	0	3	10
06:45 AM	2	2	0	0	4	0	0	0	0	0	1	0	0	0	1	0	1	4	0	5	10
Total	3	3	0	0	6	1	0	0	0	1	3	1	1	0	5	0	1	7	0	8	20
07:00 AM	0	0	0	0	0	0	1	0	0	1	3	0	0	0	3	0	1	1	0	2	6
07:15 AM	0	2	0	0	2	0	1	0	0	1	2	0	0	0	2	0	0	3	0	3	8
07:30 AM	1	3	0	0	4	0	1	0	0	1	1	0	0	0	1	0	2	3	0	5	11
07:45 AM	0	1	0	0	1	0	2	0	0	2	3	1	0	0	4	0	0	3	0	3	10
Total	1	6	0	0	7	0	5	0	0	5	9	1	0	0	10	0	3	10	0	13	35
08:00 AM	2	0	0	0	2	0	0	0	0	0	3	0	0	0	3	0	0	4	0	4	9
08:15 AM	0	3	0	0	3	1	0	0	0	1	4	0	0	0	4	0	2	1	0	3	11
Grand Total	6	12	0	0	18	2	5	0	0	7	19	2	1	0	22	0	6	22	0	28	75
Apprch %	33.3	66.7	0	0		28.6	71.4	0	0		86.4	9.1	4.5	0		0	21.4	78.6	0		
Total %	8	16	0	0	24	2.7	6.7	0	0	9.3	25.3	2.7	1.3	0	29.3	0	8	29.3	0	37.3	

# LSC Transportation Consultants, Inc.

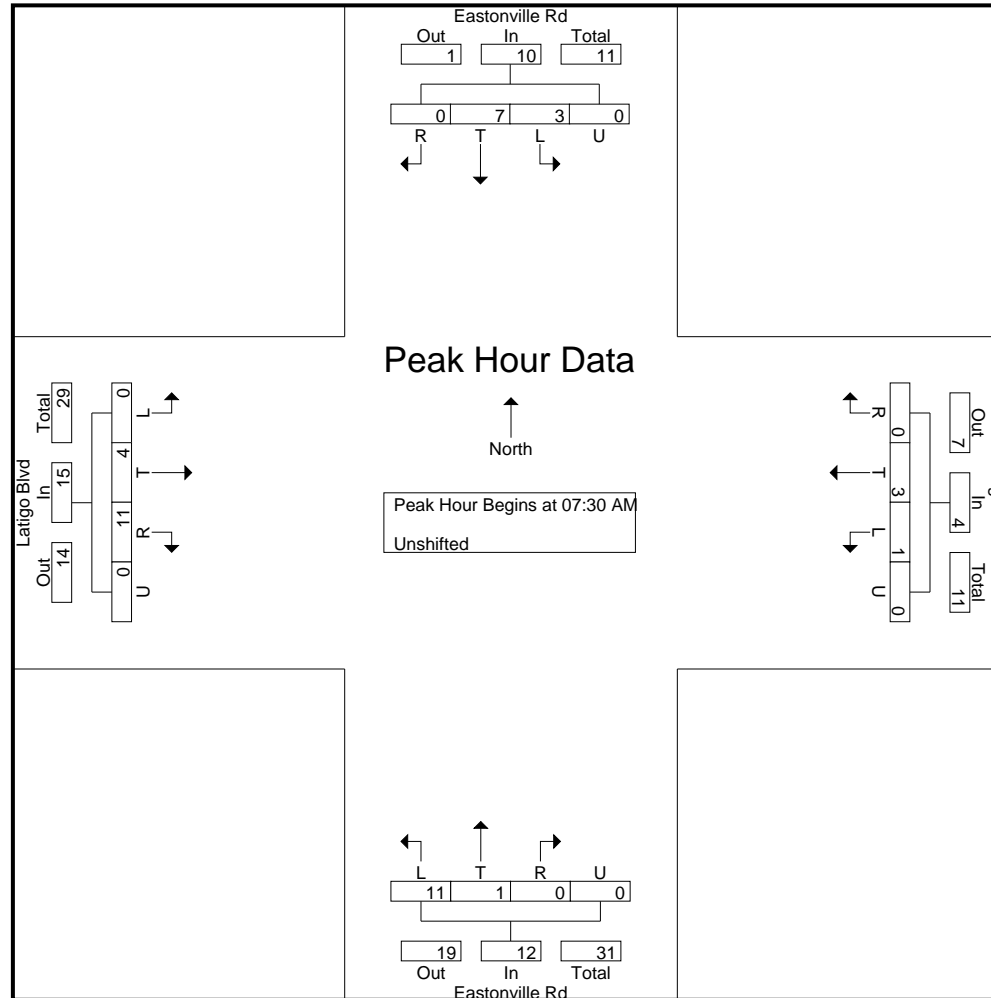
2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Eastonville Rd - Latigo Blvd AM

Site Code : S214500

Start Date : 6/9/2021

Page No : 3



# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Eastonville Rd - Latigo Blvd PM  
Site Code : S214500  
Start Date : 6/9/2021  
Page No : 1

## Groups Printed- Unshifted

	Eastonville Rd Southbound					Latigo Blvd Westbound					Eastonville Rd Northbound					Latigo Blvd Eastbound					
Start Time	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	Int. Total
04:00 PM	0	1	0	0	1	1	1	1	0	3	2	1	1	0	4	0	1	1	0	2	10
04:15 PM	0	0	0	0	0	0	1	0	0	1	2	4	1	0	7	0	1	1	0	2	10
04:30 PM	0	0	0	0	0	2	2	1	0	5	3	1	0	0	4	0	0	2	0	2	11
04:45 PM	0	0	1	0	1	0	1	1	0	2	5	5	2	0	12	0	2	0	0	2	17
Total	0	1	1	0	2	3	5	3	0	11	12	11	4	0	27	0	4	4	0	8	48
05:00 PM	1	1	0	0	2	1	4	0	0	5	3	1	1	0	5	0	3	1	0	4	16
05:15 PM	0	1	0	0	1	1	1	0	0	2	4	1	2	0	7	0	3	2	0	5	15
05:30 PM	0	1	0	0	1	1	3	1	0	5	1	0	2	0	3	0	2	2	0	4	13
05:45 PM	0	3	0	0	3	0	0	0	0	0	0	4	0	0	4	0	4	0	0	4	11
Total	1	6	0	0	7	3	8	1	0	12	8	6	5	0	19	0	12	5	0	17	55
Grand Total	1	7	1	0	9	6	13	4	0	23	20	17	9	0	46	0	16	9	0	25	103
Apprch %	11.1	77.8	11.1	0		26.1	56.5	17.4	0		43.5	37	19.6	0		0	64	36	0		
Total %	1	6.8	1	0	8.7	5.8	12.6	3.9	0	22.3	19.4	16.5	8.7	0	44.7	0	15.5	8.7	0	24.3	

# LSC Transportation Consultants, Inc.

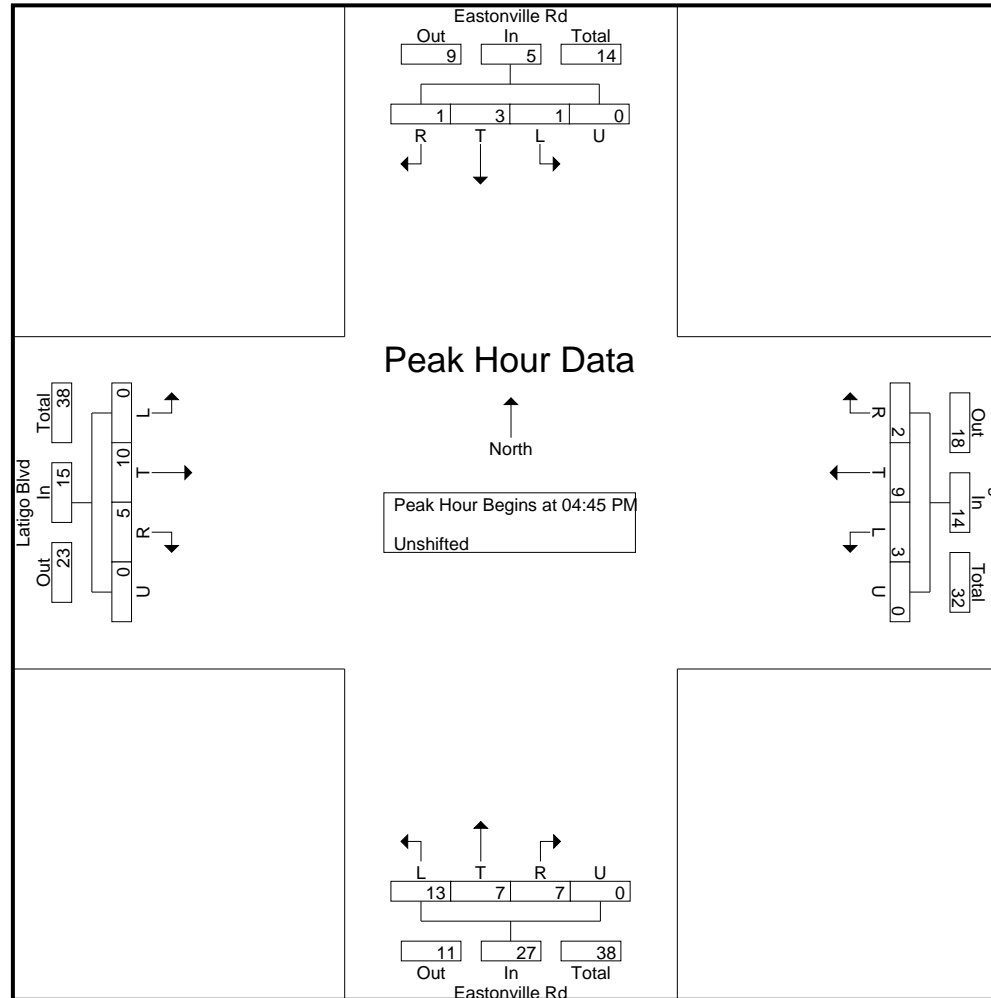
2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Eastonville Rd - Latigo Blvd PM

Site Code : S214500

Start Date : 6/9/2021

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# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Oregon Wagon Tr - Latigo Blvd AM  
Site Code : S214500  
Start Date : 6/17/2021  
Page No : 1

## Groups Printed- Unshifted

	Southbound					Latigo Blvd Westbound					Oregon Wagon Tr Northbound					Latigo Blvd Eastbound					
Start Time	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	Int. Total
06:30 AM	0	0	0	0	0	0	4	0	0	4	4	0	0	0	4	0	3	0	0	3	11
06:45 AM	0	0	0	0	0	0	7	0	0	7	7	0	0	0	7	0	2	0	0	2	16
Total	0	0	0	0	0	0	11	0	0	11	11	0	0	0	11	0	5	0	0	5	27
07:00 AM	0	0	0	0	0	1	6	0	0	7	3	0	0	0	3	0	3	1	0	4	14
07:15 AM	0	0	0	0	0	0	8	0	0	8	7	0	0	0	7	0	0	2	0	2	17
07:30 AM	0	0	0	0	0	0	9	0	0	9	3	0	0	0	3	0	3	1	0	4	16
07:45 AM	0	0	0	0	0	0	2	0	0	2	2	0	0	0	2	0	6	2	0	8	12
Total	0	0	0	0	0	1	25	0	0	26	15	0	0	0	15	0	12	6	0	18	59
08:00 AM	0	0	0	0	0	0	8	0	0	8	1	0	0	0	1	0	3	1	0	4	13
08:15 AM	0	0	0	0	0	0	5	0	0	5	4	0	1	0	5	0	4	1	0	5	15
Grand Total	0	0	0	0	0	1	49	0	0	50	31	0	1	0	32	0	24	8	0	32	114
Apprch %	0	0	0	0		2	98	0	0		96.9	0	3.1	0		0	75	25	0		
Total %	0	0	0	0		0.9	43	0	0	43.9	27.2	0	0.9	0	28.1	0	21.1	7	0	28.1	

# LSC Transportation Consultants, Inc.

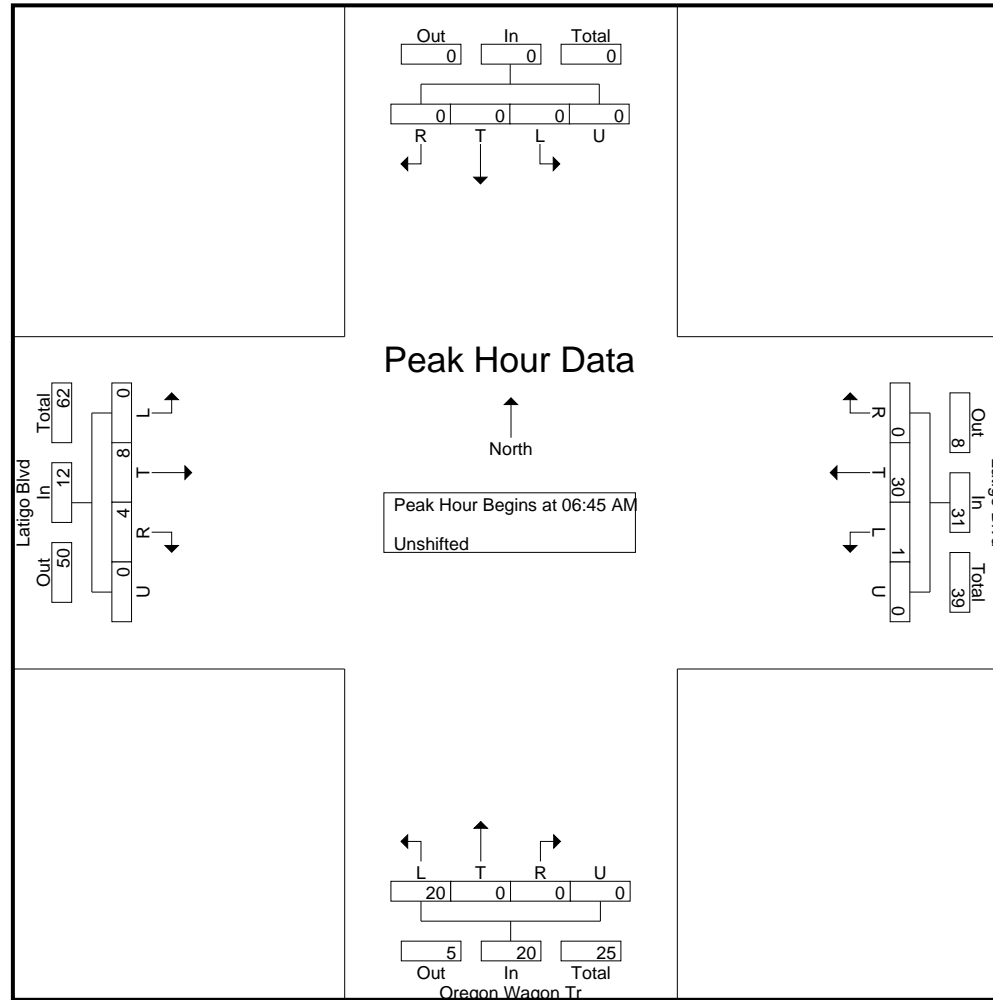
2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Oregon Wagon Tr - Latigo Blvd AM

Site Code : S214500

Start Date : 6/17/2021

Page No : 3



# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Oregon Wagon Tr - Latigo Blvd PM  
Site Code : S214500  
Start Date : 6/16/2021  
Page No : 1

## Groups Printed- Unshifted

Start Time	Southbound					Latigo Blvd Westbound					Oregon Wagon Tr Northbound					Latigo Blvd Eastbound					Int. Total
	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	
04:00 PM	0	0	0	0	0	0	5	0	0	5	2	0	0	0	2	0	3	2	0	5	12
04:15 PM	0	0	0	0	0	0	2	0	0	2	1	0	0	0	1	0	7	5	0	12	15
04:30 PM	0	0	0	0	0	0	5	0	0	5	2	0	1	0	3	0	6	5	0	11	19
04:45 PM	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	0	13	3	0	16	20
Total	0	0	0	0	0	0	15	0	0	15	6	0	1	0	7	0	29	15	0	44	66
05:00 PM	0	0	0	0	0	0	5	0	0	5	1	0	1	0	2	0	13	7	0	20	27
05:15 PM	0	0	0	0	0	0	7	0	0	7	5	0	0	0	5	0	7	6	0	13	25
05:30 PM	0	0	0	0	0	0	7	0	0	7	4	0	0	0	4	0	15	3	0	18	29
05:45 PM	0	0	0	0	0	0	3	0	0	3	4	0	0	0	4	0	11	4	0	15	22
Total	0	0	0	0	0	0	22	0	0	22	14	0	1	0	15	0	46	20	0	66	103
Grand Total	0	0	0	0	0	0	37	0	0	37	20	0	2	0	22	0	75	35	0	110	169
Apprch %	0	0	0	0	0	0	100	0	0		90.9	0	9.1	0		0	68.2	31.8	0		
Total %	0	0	0	0	0	0	21.9	0	0	21.9	11.8	0	1.2	0	13	0	44.4	20.7	0	65.1	

# LSC Transportation Consultants, Inc.

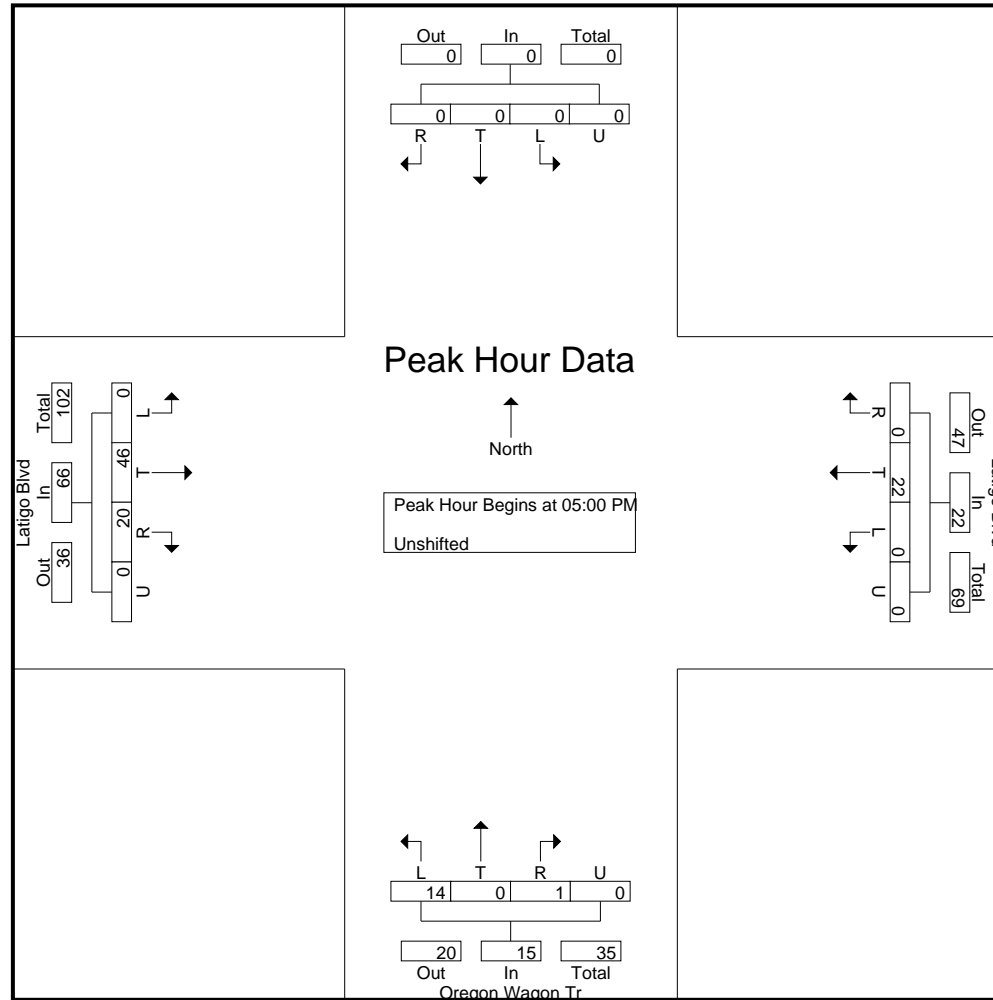
2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Oregon Wagon Tr - Latigo Blvd PM

Site Code : S214500

Start Date : 6/16/2021

Page No : 3



# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Lonesome Pine Tr - Latigo Blvd AM  
Site Code : S214500  
Start Date : 6/17/2021  
Page No : 1

## Groups Printed- Bank 1

Start Time	Southbound					Latigo Blvd Westbound					Lonesome Pine Tr Northbound					Latigo Blvd Eastbound					Int. Total
	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	
06:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	1	0	1	3
06:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	2
Total	0	0	0	0	0	0	0	0	0	0	2	0	1	0	3	0	0	2	0	2	5
07:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	2
*** BREAK ***																					
Total	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	4
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
08:15 AM	0	0	0	0	0	1	0	0	0	1	3	0	0	0	3	0	0	2	0	2	6
Grand Total	0	0	0	0	0	1	0	0	0	1	9	0	1	0	10	0	0	5	0	5	16
Apprch %	0	0	0	0		100	0	0	0		90	0	10	0		0	0	100	0		
Total %	0	0	0	0	0	6.2	0	0	0	6.2	56.2	0	6.2	0	62.5	0	0	31.2	0	31.2	

# LSC Transportation Consultants, Inc.

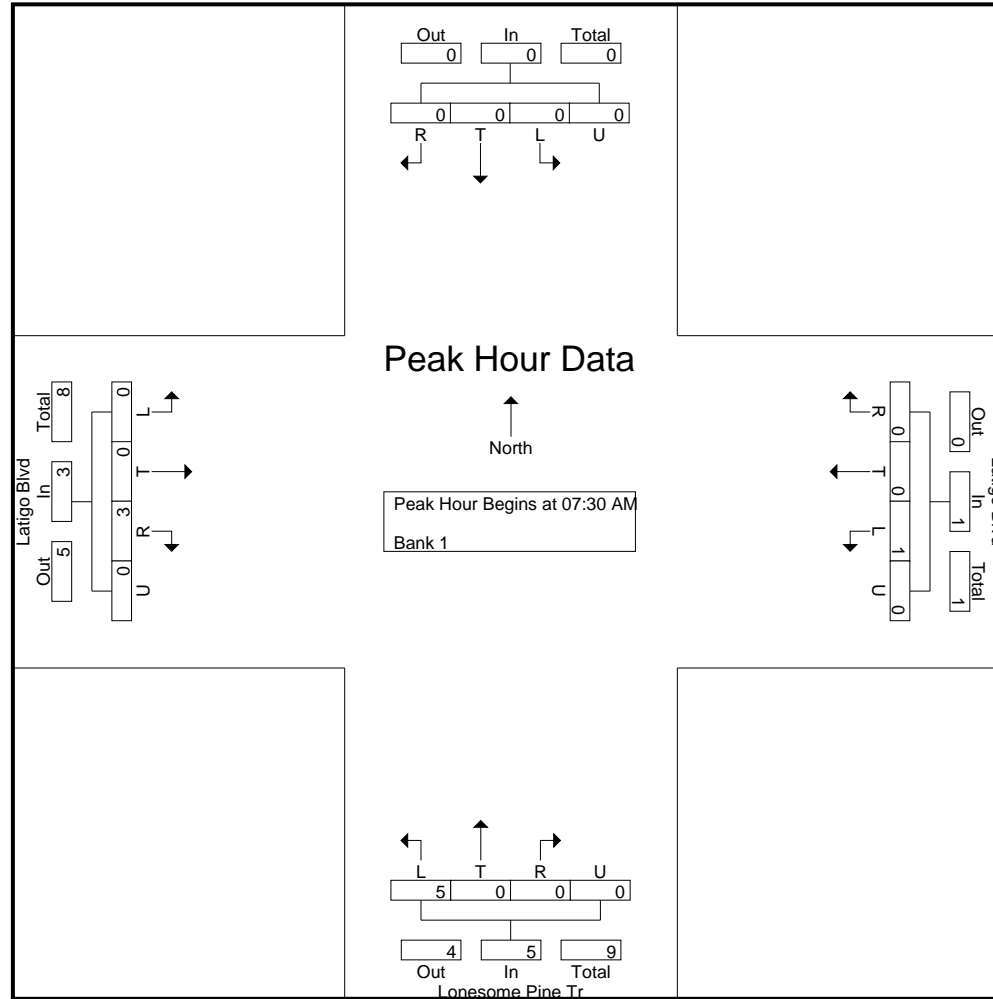
2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Lonesome Pine Tr - Latigo Blvd AM

Site Code : S214500

Start Date : 6/17/2021

Page No : 3



# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Lonesome Pine Tr - Latigo Blvd PM  
Site Code : S214500  
Start Date : 6/16/2021  
Page No : 1

## Groups Printed- Bank 1

	Southbound					Latigo Blvd Westbound					Lonesome Pine Tr Northbound					Latigo Blvd Eastbound					
Start Time	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	0	3	4
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	4
04:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	0	3	4
Total	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	12	0	12	14
05:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	5	0	5	6
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
05:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	2	0	2	4
05:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	1	0	3	0	0	2	0	2	5
Total	0	0	0	0	0	0	0	0	0	0	5	0	1	0	6	0	0	12	0	12	18
Grand Total	0	0	0	0	0	0	0	0	0	0	7	0	1	0	8	0	0	24	0	24	32
Apprch %	0	0	0	0	0	0	0	0	0	0	87.5	0	12.5	0	0	0	0	100	0	0	
Total %	0	0	0	0	0	0	0	0	0	0	21.9	0	3.1	0	25	0	0	75	0	75	

# LSC Transportation Consultants, Inc.

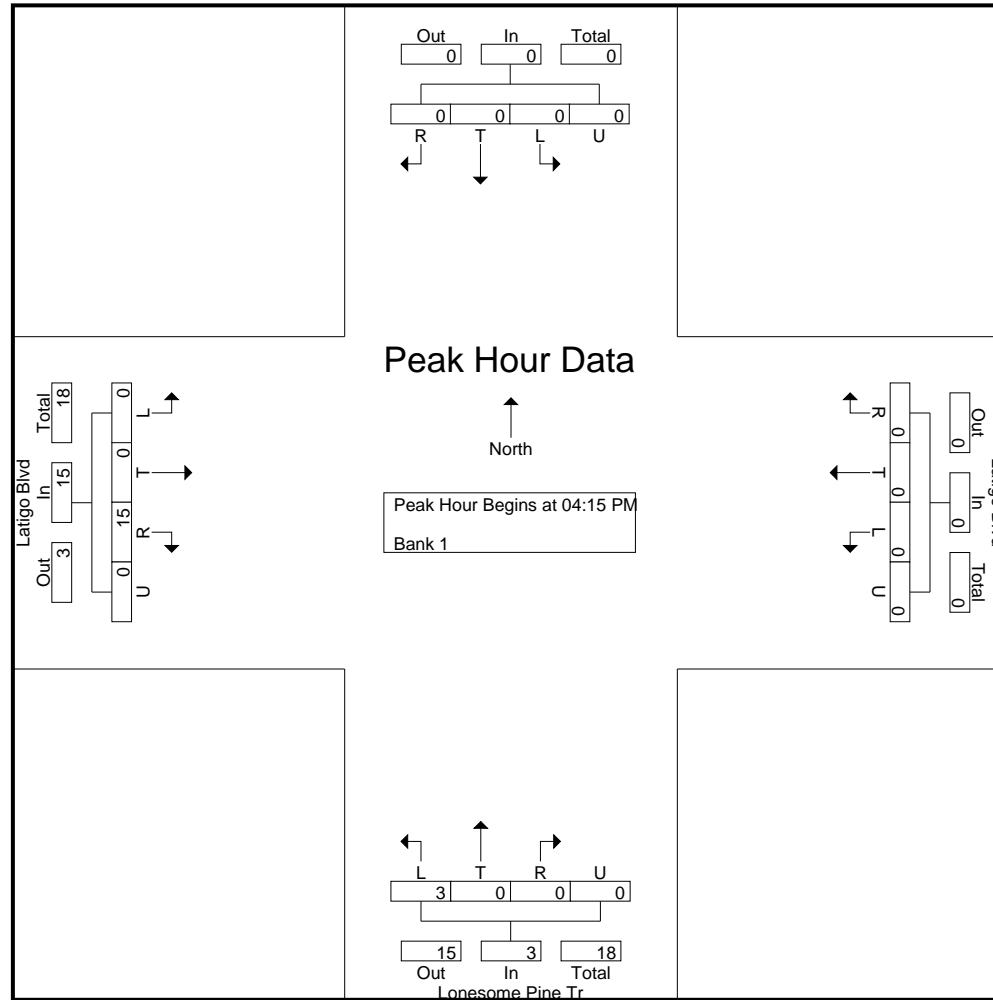
2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Lonesome Pine Tr - Latigo Blvd PM

Site Code : S214500

Start Date : 6/16/2021

Page No : 3



# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Ponca Canyon Rd - Latigo Blvd AM  
Site Code : S214500  
Start Date : 6/9/2021  
Page No : 1

## Groups Printed- Bank 1

Start Time	Southbound					Latigo Blvd Westbound					Ponca Canyon Tr Northbound					Latigo Blvd Eastbound					Int. Total
	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	
06:30 AM	0	0	0	0	0	1	0	0	0	1	2	0	1	0	3	0	0	1	0	1	5
06:45 AM	0	0	0	0	0	1	0	0	0	1	1	0	3	0	4	0	0	3	0	3	8
Total	0	0	0	0	0	2	0	0	0	2	3	0	4	0	7	0	0	4	0	4	13
07:00 AM	0	0	0	0	0	2	0	0	0	2	4	0	1	0	5	0	0	0	0	0	7
07:15 AM	0	0	0	0	0	0	0	0	0	0	6	0	3	0	9	0	0	0	0	0	9
07:30 AM	0	0	0	0	0	1	0	0	0	1	3	0	2	0	5	0	0	2	0	2	8
07:45 AM	0	0	0	0	0	4	0	0	0	4	1	0	2	0	3	0	0	1	0	1	8
Total	0	0	0	0	0	7	0	0	0	7	14	0	8	0	22	0	0	3	0	3	32
08:00 AM	0	0	0	0	0	1	0	0	0	1	4	0	3	0	7	0	0	0	0	0	8
08:15 AM	0	0	0	0	0	4	0	0	0	4	2	0	1	0	3	0	0	0	0	0	7
Grand Total	0	0	0	0	0	14	0	0	0	14	23	0	16	0	39	0	0	7	0	7	60
Apprch %	0	0	0	0		100	0	0	0		59	0	41	0		0	0	100	0		
Total %	0	0	0	0		23.3	0	0	0	23.3	38.3	0	26.7	0	65	0	0	11.7	0	11.7	

# LSC Transportation Consultants, Inc.

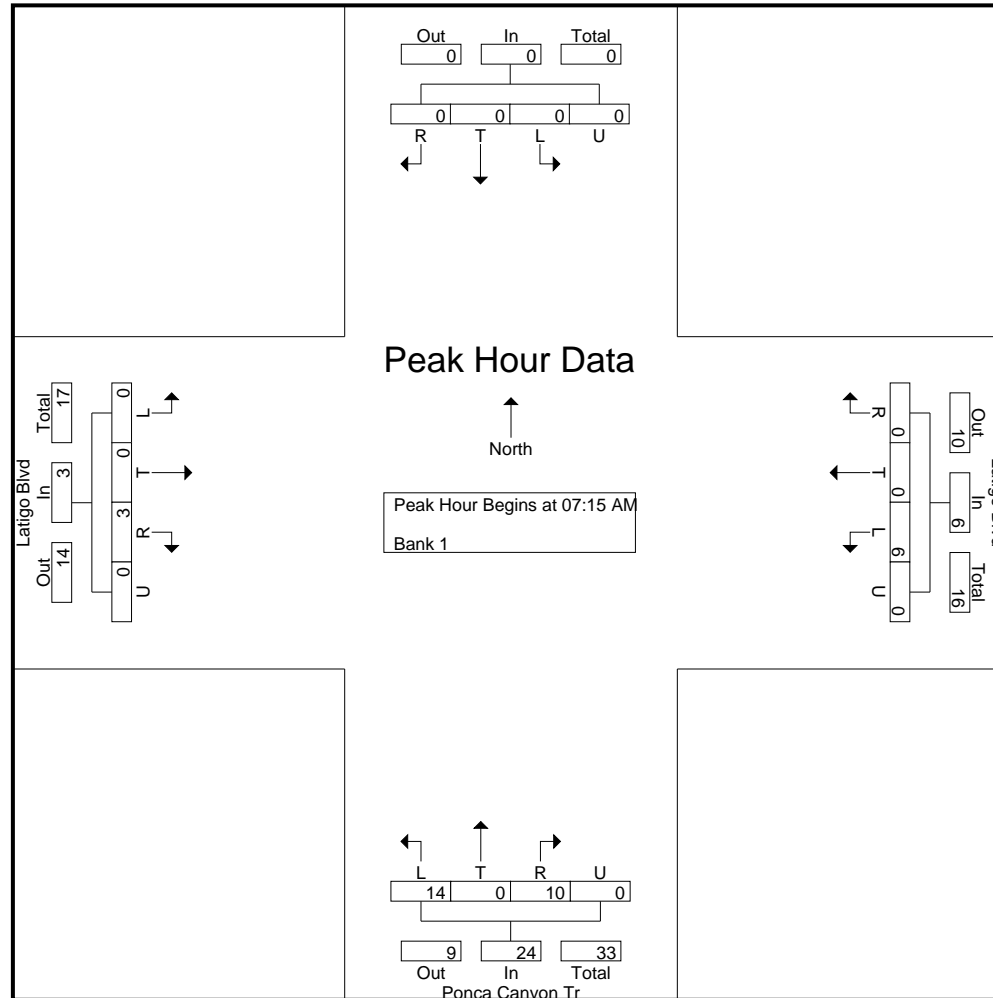
2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Ponca Canyon Rd - Latigo Blvd AM

Site Code : S214500

Start Date : 6/9/2021

Page No : 3



# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Ponca Canyon Rd - Latigo Blvd PM  
Site Code : S214500  
Start Date : 6/9/2021  
Page No : 1

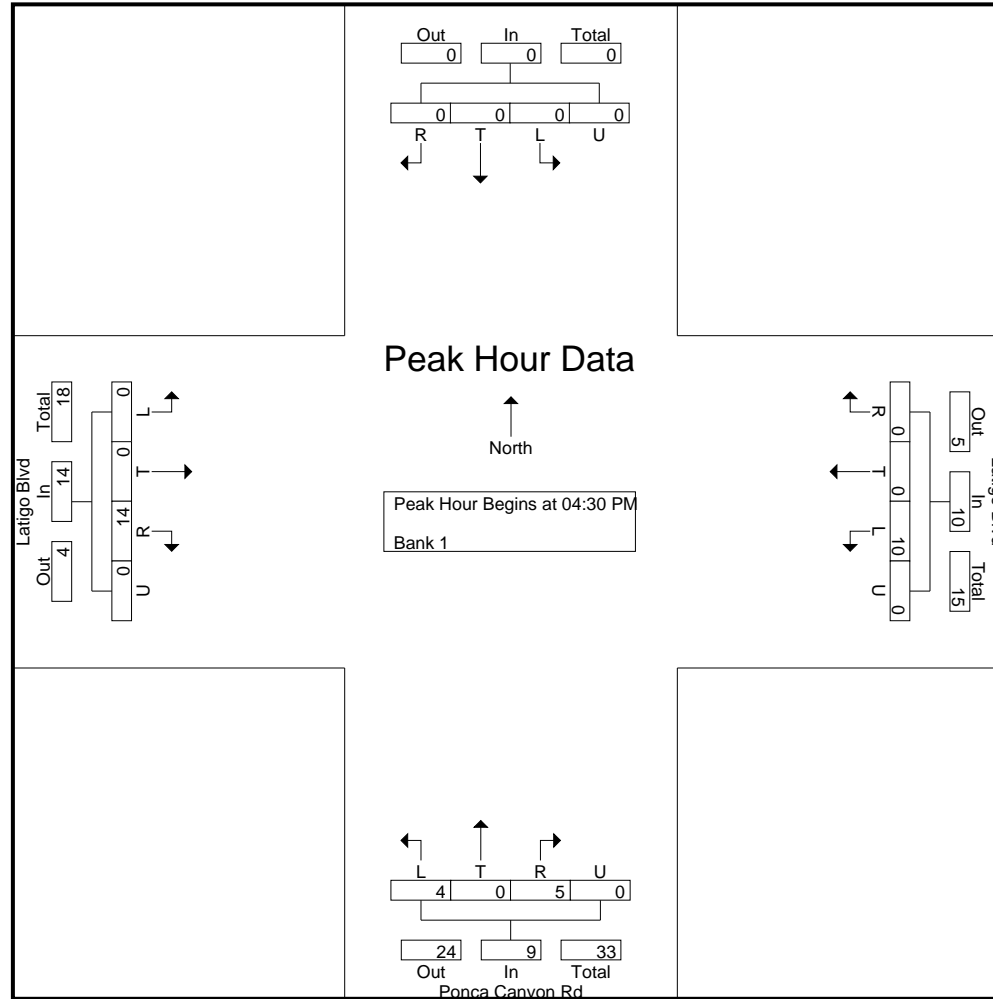
## Groups Printed- Bank 1

	Southbound					Latigo Blvd Westbound					Ponca Canyon Rd Northbound					Latigo Blvd Eastbound					
Start Time	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	L	T	R	U	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	3	0	3	5
04:15 PM	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	2	0	2	4
04:30 PM	0	0	0	0	0	2	0	0	0	2	0	0	1	0	1	0	0	4	0	4	7
04:45 PM	0	0	0	0	0	2	0	0	0	2	2	0	1	0	3	0	0	4	0	4	9
Total	0	0	0	0	0	6	0	0	0	6	4	0	2	0	6	0	0	13	0	13	25
05:00 PM	0	0	0	0	0	4	0	0	0	4	1	0	2	0	3	0	0	5	0	5	12
05:15 PM	0	0	0	0	0	2	0	0	0	2	1	0	1	0	2	0	0	1	0	1	5
05:30 PM	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	2	4
05:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	0	3	4
Total	0	0	0	0	0	8	0	0	0	8	3	0	3	0	6	0	0	11	0	11	25
Grand Total	0	0	0	0	0	14	0	0	0	14	7	0	5	0	12	0	0	24	0	24	50
Apprch %	0	0	0	0		100	0	0	0		58.3	0	41.7	0		0	0	100	0		
Total %	0	0	0	0	0	28	0	0	0	28	14	0	10	0	24	0	0	48	0	48	

# LSC Transportation Consultants, Inc.

2504 E Pikes Peak Ave, Suite 304  
Colorado Springs, CO 80909  
719-633-2868

File Name : Ponca Canyon Rd - Latigo Blvd PM  
Site Code : S214500  
Start Date : 6/9/2021  
Page No : 3



# Levels of Service




---

HCM 6th TWSC  
2: Oregon Wagon Trl & Latigo Blvd

Existing Traffic  
AM Peak Hour

Intersection

Int Delay, s/veh 3.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	8	4	1	30	20	0
Future Vol, veh/h	8	4	1	30	20	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	78	78	71	71
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	5	1	38	28	0




Major/Minor	Major1	Major2	Minor1
Conflicting Flow All	0	0	15
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	-	-	4.12
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	-	-	2.218
Pot Cap-1 Maneuver	-	-	1603
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	-	-	1603
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.2	8.9
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	954	-	-	1603	-
HCM Lane V/C Ratio	0.03	-	-	0.001	-
HCM Control Delay (s)	8.9	-	-	7.2	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-

HCM 6th TWSC  
3: Lonesome Pine Trl & Latigo Blvd

Existing Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	5	3	1	26	5	0
Future Vol, veh/h	5	3	1	26	5	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	78	78	42	42
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	4	1	33	12	0
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	10	0	43	8
Stage 1	-	-	-	-	8	-
Stage 2	-	-	-	-	35	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1610	-	968	1074
Stage 1	-	-	-	-	1015	-
Stage 2	-	-	-	-	987	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1610	-	967	1074
Mov Cap-2 Maneuver	-	-	-	-	967	-
Stage 1	-	-	-	-	1015	-
Stage 2	-	-	-	-	986	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		8.8	
HCM LOS	A					
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	967	-	-	1610	-	
HCM Lane V/C Ratio	0.012	-	-	0.001	-	
HCM Control Delay (s)	8.8	-	-	7.2	0	
HCM Lane LOS	A	-	-	A	A	
HCM 95th %tile Q(veh)	0	-	-	0	-	

HCM 6th TWSC  
4: Ponca Canyon Trl & Latigo Blvd

Existing Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	5.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↖	↑	↘	
Traffic Vol, veh/h	5	0	6	13	14	10
Future Vol, veh/h	5	0	6	13	14	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	215	225	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	78	78	67	67
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	0	8	17	21	15
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	6	0	39	6
Stage 1	-	-	-	-	6	-
Stage 2	-	-	-	-	33	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1615	-	973	1077
Stage 1	-	-	-	-	1017	-
Stage 2	-	-	-	-	989	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1615	-	968	1077
Mov Cap-2 Maneuver	-	-	-	-	968	-
Stage 1	-	-	-	-	1017	-
Stage 2	-	-	-	-	984	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		2.3		8.7	
HCM LOS	A					
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	1011	-	-	1615	-	
HCM Lane V/C Ratio	0.035	-	-	0.005	-	
HCM Control Delay (s)	8.7	-	-	7.2	-	
HCM Lane LOS	A	-	-	A	-	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	




HCM 6th TWSC  
5: Eastonville Rd & Latigo Blvd

Existing Traffic  
AM Peak Hour

Intersection												
Int Delay, s/veh	6.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	4	11	1	3	0	16	1	0	3	7	0
Future Vol, veh/h	0	4	11	1	3	0	16	1	0	3	7	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	75	75	75	78	78	78	78	78	78	63	63	63
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	5	15	1	4	0	21	1	0	5	11	0
Major/Minor	Minor2		Minor1			Major1			Major2			
Conflicting Flow All	66	64	11	74	64	1	11	0	0	1	0	0
Stage 1	21	21	-	43	43	-	-	-	-	-	-	-
Stage 2	45	43	-	31	21	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	927	827	1070	916	827	1084	1608	-	-	1622	-	-
Stage 1	998	878	-	971	859	-	-	-	-	-	-	-
Stage 2	969	859	-	986	878	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	912	814	1070	888	814	1084	1608	-	-	1622	-	-
Mov Cap-2 Maneuver	912	814	-	888	814	-	-	-	-	-	-	-
Stage 1	985	875	-	958	848	-	-	-	-	-	-	-
Stage 2	952	848	-	964	875	-	-	-	-	-	-	-
Approach	EB		WB			NB			SB			
HCM Control Delay, s	8.7		9.4			6.8			2.2			
HCM LOS	A		A									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)	1608	-	-	987	831	1622	-	-				
HCM Lane V/C Ratio	0.013	-	-	0.02	0.006	0.003	-	-				
HCM Control Delay (s)	7.3	0	-	8.7	9.4	7.2	0	-				
HCM Lane LOS	A	A	-	A	A	A	A	-				
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-	-				

HCM 6th TWSC  
2: Oregon Wagon Trl & Latigo Blvd

Existing Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	1.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	46	20	0	22	14	1
Future Vol, veh/h	46	20	0	22	14	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	79	79	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	59	26	0	28	18	1




Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	85	0	100	72
Stage 1	-	-	-	-	72	-
Stage 2	-	-	-	-	28	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1512	-	899	990
Stage 1	-	-	-	-	951	-
Stage 2	-	-	-	-	995	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1512	-	899	990
Mov Cap-2 Maneuver	-	-	-	-	899	-
Stage 1	-	-	-	-	951	-
Stage 2	-	-	-	-	995	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.1
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	905	-	-	1512	-
HCM Lane V/C Ratio	0.021	-	-	-	-
HCM Control Delay (s)	9.1	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-

HCM 6th TWSC  
3: Lonesome Pine Trl & Latigo Blvd

Existing Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	32	15	0	19	3	0
Future Vol, veh/h	32	15	0	19	3	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	79	79	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	41	19	0	24	4	0
Major/Minor	Major1	Major2		Minor1		
Conflicting Flow All	0	0	60	0	75	51
Stage 1	-	-	-	-	51	-
Stage 2	-	-	-	-	24	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1544	-	928	1017
Stage 1	-	-	-	-	971	-
Stage 2	-	-	-	-	999	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1544	-	928	1017
Mov Cap-2 Maneuver	-	-	-	-	928	-
Stage 1	-	-	-	-	971	-
Stage 2	-	-	-	-	999	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		8.9	
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	928	-	-	1544	-	
HCM Lane V/C Ratio	0.004	-	-	-	-	
HCM Control Delay (s)	8.9	-	-	0	-	
HCM Lane LOS	A	-	-	A	-	
HCM 95th %tile Q(veh)	0	-	-	0	-	

HCM 6th TWSC  
4: Ponca Canyon Trl & Latigo Blvd

Existing Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	2.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↖	↑	↘	
Traffic Vol, veh/h	18	14	10	15	4	5
Future Vol, veh/h	18	14	10	15	4	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	215	225	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	69	69	67	67	75	75
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	20	15	22	5	7
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	46	0	78	26
Stage 1	-	-	-	-	26	-
Stage 2	-	-	-	-	52	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1562	-	925	1050
Stage 1	-	-	-	-	997	-
Stage 2	-	-	-	-	970	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1562	-	916	1050
Mov Cap-2 Maneuver	-	-	-	-	916	-
Stage 1	-	-	-	-	997	-
Stage 2	-	-	-	-	960	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		2.9		8.7	
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	986	-	-	1562	-	
HCM Lane V/C Ratio	0.012	-	-	0.01	-	
HCM Control Delay (s)	8.7	-	-	7.3	-	
HCM Lane LOS	A	-	-	A	-	
HCM 95th %tile Q(veh)	0	-	-	0	-	




HCM 6th TWSC  
5: Eastonville Rd & Latigo Blvd

Existing Traffic  
PM Peak Hour

Intersection												
Int Delay, s/veh	6.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	10	13	3	9	2	15	7	7	1	3	1
Future Vol, veh/h	0	10	13	3	9	2	15	7	7	1	3	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	78	78	78	56	56	56	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	13	17	4	12	3	27	13	13	1	4	1
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	87	85	5	94	79	18	5	0	0	24	0	0
Stage 1	7	7	-	72	72	-	-	-	-	-	-	-
Stage 2	80	78	-	22	7	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	899	805	1078	889	811	1061	1616	-	-	1591	-	-
Stage 1	1015	890	-	938	835	-	-	-	-	-	-	-
Stage 2	929	830	-	996	890	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	875	791	1078	853	796	1061	1616	-	-	1591	-	-
Mov Cap-2 Maneuver	875	791	-	853	796	-	-	-	-	-	-	-
Stage 1	998	889	-	922	821	-	-	-	-	-	-	-
Stage 2	898	816	-	965	889	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s	9		9.4		3.8		1.5					
HCM LOS	A		A									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)	1616	-	-	931	838	1591	-	-				
HCM Lane V/C Ratio	0.017	-	-	0.032	0.021	0.001	-	-				
HCM Control Delay (s)	7.3	0	-	9	9.4	7.3	0	-				
HCM Lane LOS	A	A	-	A	A	A	A	-				
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0.1	0	-	-				




HCM 6th TWSC  
2: Oregon Wagon Trl & Latigo Blvd

Existing + Site Generated Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	3.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	10	7	1	37	30	1
Future Vol, veh/h	10	7	1	37	30	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	78	78	71	71
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	13	9	1	47	42	1
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	22	0	67	18
Stage 1	-	-	-	-	18	-
Stage 2	-	-	-	-	49	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1593	-	938	1061
Stage 1	-	-	-	-	1005	-
Stage 2	-	-	-	-	973	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1593	-	937	1061
Mov Cap-2 Maneuver	-	-	-	-	937	-
Stage 1	-	-	-	-	1005	-
Stage 2	-	-	-	-	972	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.2		9	
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	941	-	-	1593	-	
HCM Lane V/C Ratio	0.046	-	-	0.001	-	
HCM Control Delay (s)	9	-	-	7.3	0	
HCM Lane LOS	A	-	-	A	A	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	

HCM 6th TWSC  
3: Lonesome Pine Trl & Latigo Blvd

Existing + Site Generated Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	3.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	6	5	1	26	12	0
Future Vol, veh/h	6	5	1	26	12	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	78	78	42	42
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	6	1	33	29	0
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	14	0	46	11
Stage 1	-	-	-	-	11	-
Stage 2	-	-	-	-	35	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1604	-	964	1070
Stage 1	-	-	-	-	1012	-
Stage 2	-	-	-	-	987	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1604	-	963	1070
Mov Cap-2 Maneuver	-	-	-	-	963	-
Stage 1	-	-	-	-	1012	-
Stage 2	-	-	-	-	986	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		8.9	
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	963	-	-	1604	-	
HCM Lane V/C Ratio	0.03	-	-	0.001	-	
HCM Control Delay (s)	8.9	-	-	7.2	0	
HCM Lane LOS	A	-	-	A	A	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	

HCM 6th TWSC  
4: Ponca Canyon Trl & Latigo Blvd

Existing + Site Generated Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	5.7					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↖	↑	↘↗	
Traffic Vol, veh/h	6	0	7	13	14	14
Future Vol, veh/h	6	0	7	13	14	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	215	225	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	78	78	67	67
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	0	9	17	21	21
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	8	0	43	8
Stage 1	-	-	-	-	8	-
Stage 2	-	-	-	-	35	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1612	-	968	1074
Stage 1	-	-	-	-	1015	-
Stage 2	-	-	-	-	987	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1612	-	962	1074
Mov Cap-2 Maneuver	-	-	-	-	962	-
Stage 1	-	-	-	-	1015	-
Stage 2	-	-	-	-	981	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		2.5		8.7	
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	1015	-	-	1612	-	
HCM Lane V/C Ratio	0.041	-	-	0.006	-	
HCM Control Delay (s)	8.7	-	-	7.2	-	
HCM Lane LOS	A	-	-	A	-	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	

HCM 6th TWSC  
5: Eastonville Rd & Latigo Blvd

Existing + Site Generated Traffic  
AM Peak Hour

Intersection												
Int Delay, s/veh	6.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	6	15	1	4	0	17	1	0	3	7	0
Future Vol, veh/h	0	6	15	1	4	0	17	1	0	3	7	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	75	75	75	78	78	78	78	78	78	63	63	63
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	8	20	1	5	0	22	1	0	5	11	0




Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	69	66	11	80	66	1	11	0	0	1	0	0
Stage 1	21	21	-	45	45	-	-	-	-	-	-	-
Stage 2	48	45	-	35	21	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	923	825	1070	908	825	1084	1608	-	-	1622	-	-
Stage 1	998	878	-	969	857	-	-	-	-	-	-	-
Stage 2	965	857	-	981	878	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	906	811	1070	873	811	1084	1608	-	-	1622	-	-
Mov Cap-2 Maneuver	906	811	-	873	811	-	-	-	-	-	-	-
Stage 1	984	875	-	955	845	-	-	-	-	-	-	-
Stage 2	946	845	-	951	875	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	8.8		9.4		6.9		2.2	
HCM LOS	A		A					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1608	-	-	981	823	1622	-
HCM Lane V/C Ratio	0.014	-	-	0.029	0.008	0.003	-
HCM Control Delay (s)	7.3	0	-	8.8	9.4	7.2	0
HCM Lane LOS	A	A	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-




HCM 6th TWSC  
2: Oregon Wagon Trl & Latigo Blvd

Existing + Site Generated Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	1.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	53	31	2	26	20	2
Future Vol, veh/h	53	31	2	26	20	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	79	79	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	68	40	3	33	26	3
Major/Minor	Major1	Major2		Minor1		
Conflicting Flow All	0	0	108	0	127	88
Stage 1	-	-	-	-	88	-
Stage 2	-	-	-	-	39	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1483	-	868	970
Stage 1	-	-	-	-	935	-
Stage 2	-	-	-	-	983	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1483	-	866	970
Mov Cap-2 Maneuver	-	-	-	-	866	-
Stage 1	-	-	-	-	935	-
Stage 2	-	-	-	-	981	-
Approach	EB	WB		NB		
HCM Control Delay, s	0	0.5		9.3		
HCM LOS	A					
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	875	-	-	1483	-	
HCM Lane V/C Ratio	0.032	-	-	0.002	-	
HCM Control Delay (s)	9.3	-	-	7.4	0	
HCM Lane LOS	A	-	-	A	A	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	

HCM 6th TWSC  
3: Lonesome Pine Trl & Latigo Blvd

Existing + Site Generated Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	33	22	0	21	7	0
Future Vol, veh/h	33	22	0	21	7	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	79	79	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	42	28	0	27	9	0
Major/Minor	Major1	Major2		Minor1		
Conflicting Flow All	0	0	70	0	83	56
Stage 1	-	-	-	-	56	-
Stage 2	-	-	-	-	27	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1531	-	919	1011
Stage 1	-	-	-	-	967	-
Stage 2	-	-	-	-	996	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1531	-	919	1011
Mov Cap-2 Maneuver	-	-	-	-	919	-
Stage 1	-	-	-	-	967	-
Stage 2	-	-	-	-	996	-
Approach	EB	WB		NB		
HCM Control Delay, s	0	0		9		
HCM LOS	A					
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	919	-	-	1531	-	
HCM Lane V/C Ratio	0.01	-	-	-	-	
HCM Control Delay (s)	9	-	-	0	-	
HCM Lane LOS	A	-	-	A	-	
HCM 95th %tile Q(veh)	0	-	-	0	-	





HCM 6th TWSC  
4: Ponca Canyon Trl & Latigo Blvd

Existing + Site Generated Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	2.7					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↖	↑	↘	
Traffic Vol, veh/h	19	14	15	17	4	8
Future Vol, veh/h	19	14	15	17	4	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	215	225	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	69	69	67	67	75	75
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	28	20	22	25	5	11
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	48	0	97	28
Stage 1	-	-	-	-	28	-
Stage 2	-	-	-	-	69	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1559	-	902	1047
Stage 1	-	-	-	-	995	-
Stage 2	-	-	-	-	954	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1559	-	889	1047
Mov Cap-2 Maneuver	-	-	-	-	889	-
Stage 1	-	-	-	-	995	-
Stage 2	-	-	-	-	941	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		3.4		8.7	
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	988	-	-	1559	-	
HCM Lane V/C Ratio	0.016	-	-	0.014	-	
HCM Control Delay (s)	8.7	-	-	7.3	-	
HCM Lane LOS	A	-	-	A	-	
HCM 95th %tile Q(veh)	0	-	-	0	-	

HCM 6th TWSC  
5: Eastonville Rd & Latigo Blvd

Existing + Site Generated Traffic  
PM Peak Hour




Intersection												
Int Delay, s/veh	6.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	11	15	3	11	2	19	7	7	1	3	1
Future Vol, veh/h	0	11	15	3	11	2	19	7	7	1	3	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	78	78	78	56	56	56	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	14	19	4	14	3	34	13	13	1	4	1
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	102	99	5	109	93	18	5	0	0	24	0	0
Stage 1	7	7	-	86	86	-	-	-	-	-	-	-
Stage 2	95	92	-	23	7	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	879	791	1078	870	797	1061	1616	-	-	1591	-	-
Stage 1	1015	890	-	922	824	-	-	-	-	-	-	-
Stage 2	912	819	-	995	890	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	850	774	1078	828	779	1061	1616	-	-	1591	-	-
Mov Cap-2 Maneuver	850	774	-	828	779	-	-	-	-	-	-	-
Stage 1	994	889	-	903	807	-	-	-	-	-	-	-
Stage 2	875	802	-	961	889	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	9			9.5			4.2			1.5		
HCM LOS	A			A								
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR					
Capacity (veh/h)	1616	-	-	924	815	1591	-	-				
HCM Lane V/C Ratio	0.021	-	-	0.036	0.025	0.001	-	-				
HCM Control Delay (s)	7.3	0	-	9	9.5	7.3	0	-				
HCM Lane LOS	A	A	-	A	A	A	A	-				
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0.1	0	-	-				

HCM 6th TWSC  
2: Oregon Wagon Trl & Latigo Blvd

2041 Background Traffic  
AM Peak Hour

Intersection

Int Delay, s/veh 1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	63	6	1	166	26	0
Future Vol, veh/h	63	6	1	166	26	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	67	6	1	177	28	0




Major/Minor	Major1	Major2	Minor1
Conflicting Flow All	0	0	73
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	-	-	4.12
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	-	-	2.218
Pot Cap-1 Maneuver	-	-	1527
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	-	-	1527
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	10.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	738	-	-	1527	-
HCM Lane V/C Ratio	0.037	-	-	0.001	-
HCM Control Delay (s)	10.1	-	-	7.4	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-








HCM 6th TWSC  
3: Lonesome Pine Trl & Latigo Blvd










2041 Background Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	60	3	1	162	5	0
Future Vol, veh/h	60	3	1	162	5	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	64	3	1	172	5	0
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	67	0	240	66
Stage 1	-	-	-	-	66	-
Stage 2	-	-	-	-	174	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1535	-	748	998
Stage 1	-	-	-	-	957	-
Stage 2	-	-	-	-	856	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1535	-	747	998
Mov Cap-2 Maneuver	-	-	-	-	747	-
Stage 1	-	-	-	-	957	-
Stage 2	-	-	-	-	855	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		9.9	
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	747	-	-	1535	-	
HCM Lane V/C Ratio	0.007	-	-	0.001	-	
HCM Control Delay (s)	9.9	-	-	7.3	0	
HCM Lane LOS	A	-	-	A	A	
HCM 95th %tile Q(veh)	0	-	-	0	-	

HCM 6th TWSC  
4: Ponca Canyon Trl & Latigo Blvd

2041 Background Traffic  
AM Peak Hour

Intersection												
Int Delay, s/veh	2.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	49	7	8	116	2	37	0	17	5	0	9
Future Vol, veh/h	3	49	7	8	116	2	37	0	17	5	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	225	-	215	225	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	52	7	9	123	2	39	0	18	5	0	10
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	125	0	0	59	0	0	205	201	52	213	207	124
Stage 1	-	-	-	-	-	-	58	58	-	142	142	-
Stage 2	-	-	-	-	-	-	147	143	-	71	65	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1462	-	-	1545	-	-	753	695	1016	744	690	927
Stage 1	-	-	-	-	-	-	954	847	-	861	779	-
Stage 2	-	-	-	-	-	-	856	779	-	939	841	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1462	-	-	1545	-	-	741	689	1016	726	684	927
Mov Cap-2 Maneuver	-	-	-	-	-	-	741	689	-	726	684	-
Stage 1	-	-	-	-	-	-	952	845	-	859	774	-
Stage 2	-	-	-	-	-	-	842	774	-	920	839	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.5			9.8			9.3		
HCM LOS							A			A		
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)	810	1462	-	-	1545	-	-	844				
HCM Lane V/C Ratio	0.071	0.002	-	-	0.006	-	-	0.018				
HCM Control Delay (s)	9.8	7.5	-	-	7.3	-	-	9.3				
HCM Lane LOS	A	A	-	-	A	-	-	A				
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.1				

Intersection												
Int Delay, s/veh	6.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	28	34	50	64	1	47	60	25	5	61	15
Future Vol, veh/h	9	28	34	50	64	1	47	60	25	5	61	15
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	200	-	200	200	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	10	30	36	53	68	1	50	64	27	5	65	16






Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	295	274	73	280	255	64	81	0	0	91	0	0
Stage 1	83	83	-	164	164	-	-	-	-	-	-	-
Stage 2	212	191	-	116	91	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	657	633	989	672	649	1000	1517	-	-	1504	-	-
Stage 1	925	826	-	838	762	-	-	-	-	-	-	-
Stage 2	790	742	-	889	820	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	585	610	989	606	626	1000	1517	-	-	1504	-	-
Mov Cap-2 Maneuver	585	610	-	606	626	-	-	-	-	-	-	-
Stage 1	894	824	-	810	737	-	-	-	-	-	-	-
Stage 2	693	718	-	823	818	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	10.3		11.4		2.7		0.5	
HCM LOS	B		B					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1517	-	-	585	772	606	630	1504	-	-
HCM Lane V/C Ratio	0.033	-	-	0.016	0.085	0.088	0.11	0.004	-	-
HCM Control Delay (s)	7.5	-	-	11.3	10.1	11.5	11.4	7.4	-	-
HCM Lane LOS	A	-	-	B	B	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0.3	0.3	0.4	0	-	-

HCM 6th TWSC  
8: Eastonville Rd & Constengo Trl South

2041 Background Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	5	18	6	165	310	2
Future Vol, veh/h	5	18	6	165	310	2
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	-	200	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	19	6	176	330	2




Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	519	331	332	0	-	0
Stage 1	331	-	-	-	-	-
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	517	711	1227	-	-	-
Stage 1	728	-	-	-	-	-
Stage 2	844	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	514	711	1227	-	-	-
Mov Cap-2 Maneuver	586	-	-	-	-	-
Stage 1	724	-	-	-	-	-
Stage 2	844	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.5	0.3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1227	-	679	-	-
HCM Lane V/C Ratio	0.005	-	0.036	-	-
HCM Control Delay (s)	7.9	-	10.5	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-




HCM 6th TWSC  
2: Oregon Wagon Trl & Latigo Blvd

2041 Background Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	195	27	0	113	18	1
Future Vol, veh/h	195	27	0	113	18	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	207	29	0	120	19	1
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	236	0	342	222
Stage 1	-	-	-	-	222	-
Stage 2	-	-	-	-	120	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1331	-	654	818
Stage 1	-	-	-	-	815	-
Stage 2	-	-	-	-	905	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1331	-	654	818
Mov Cap-2 Maneuver	-	-	-	-	654	-
Stage 1	-	-	-	-	815	-
Stage 2	-	-	-	-	905	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.6	
HCM LOS	B					
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	661	-	-	1331	-	
HCM Lane V/C Ratio	0.031	-	-	-	-	
HCM Control Delay (s)	10.6	-	-	0	-	
HCM Lane LOS	B	-	-	A	-	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	








HCM 6th TWSC  
3: Lonesome Pine Trl & Latigo Blvd










2041 Background Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	181	15	0	110	3	0
Future Vol, veh/h	181	15	0	110	3	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	193	16	0	117	3	0
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	209	0	318	201
Stage 1	-	-	-	-	201	-
Stage 2	-	-	-	-	117	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1362	-	675	840
Stage 1	-	-	-	-	833	-
Stage 2	-	-	-	-	908	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1362	-	675	840
Mov Cap-2 Maneuver	-	-	-	-	675	-
Stage 1	-	-	-	-	833	-
Stage 2	-	-	-	-	908	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.4	
HCM LOS					B	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	675	-	-	1362	-	
HCM Lane V/C Ratio	0.005	-	-	-	-	
HCM Control Delay (s)	10.4	-	-	0	-	
HCM Lane LOS	B	-	-	A	-	
HCM 95th %tile Q(veh)	0	-	-	0	-	

HCM 6th TWSC  
4: Ponca Canyon Trl & Latigo Blvd

2041 Background Traffic  
PM Peak Hour

Intersection												
Int Delay, s/veh	1.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	131	40	17	85	6	20	0	9	3	0	6
Future Vol, veh/h	10	131	40	17	85	6	20	0	9	3	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	225	-	215	225	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	139	43	18	90	6	21	0	10	3	0	6
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	96	0	0	182	0	0	293	293	139	317	333	93
Stage 1	-	-	-	-	-	-	161	161	-	129	129	-
Stage 2	-	-	-	-	-	-	132	132	-	188	204	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1498	-	-	1393	-	-	659	618	909	636	587	964
Stage 1	-	-	-	-	-	-	841	765	-	875	789	-
Stage 2	-	-	-	-	-	-	871	787	-	814	733	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1498	-	-	1393	-	-	645	606	909	619	575	964
Mov Cap-2 Maneuver	-	-	-	-	-	-	645	606	-	619	575	-
Stage 1	-	-	-	-	-	-	835	760	-	869	779	-
Stage 2	-	-	-	-	-	-	854	777	-	800	728	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			1.2			10.3			9.5		
HCM LOS							B			A		
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)	709	1498	-	-	1393	-	-	813				
HCM Lane V/C Ratio	0.044	0.007	-	-	0.013	-	-	0.012				
HCM Control Delay (s)	10.3	7.4	-	-	7.6	-	-	9.5				
HCM Lane LOS	B	A	-	-	A	-	-	A				
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0				

Intersection												
Int Delay, s/veh	6.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	80	47	44	53	4	42	88	65	3	85	13
Future Vol, veh/h	17	80	47	44	53	4	42	88	65	3	85	13
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	200	-	200	200	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	85	50	47	56	4	45	94	69	3	90	14






Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	352	356	97	355	294	94	104	0	0	163	0	0
Stage 1	103	103	-	184	184	-	-	-	-	-	-	-
Stage 2	249	253	-	171	110	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	603	570	959	600	617	963	1488	-	-	1416	-	-
Stage 1	903	810	-	818	747	-	-	-	-	-	-	-
Stage 2	755	698	-	831	804	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	543	552	959	490	597	963	1488	-	-	1416	-	-
Mov Cap-2 Maneuver	543	552	-	490	597	-	-	-	-	-	-	-
Stage 1	876	808	-	793	725	-	-	-	-	-	-	-
Stage 2	672	677	-	703	802	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	11.9		12.2		1.6		0.2	
HCM LOS	B		B					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1488	-	-	543	655	490	613	1416	-	-
HCM Lane V/C Ratio	0.03	-	-	0.033	0.206	0.096	0.099	0.002	-	-
HCM Control Delay (s)	7.5	-	-	11.9	11.9	13.1	11.5	7.5	-	-
HCM Lane LOS	A	-	-	B	B	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0.8	0.3	0.3	0	-	-

HCM 6th TWSC  
8: Eastonville Rd & Constengo Trl South

2041 Background Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	3	12	20	374	264	5
Future Vol, veh/h	3	12	20	374	264	5
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	-	200	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	13	21	398	281	5




Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	724	284	286	0	-	0
Stage 1	284	-	-	-	-	-
Stage 2	440	-	-	-	-	-
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	393	755	1276	-	-	-
Stage 1	764	-	-	-	-	-
Stage 2	649	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	387	755	1276	-	-	-
Mov Cap-2 Maneuver	492	-	-	-	-	-
Stage 1	752	-	-	-	-	-
Stage 2	649	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.4	0.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1276	-	682	-	-
HCM Lane V/C Ratio	0.017	-	0.023	-	-
HCM Control Delay (s)	7.9	-	10.4	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-




HCM 6th TWSC  
2: Oregon Wagon Trl & Latigo Blvd

2041 Total Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	1.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	64	8	1	170	32	0
Future Vol, veh/h	64	8	1	170	32	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	68	9	1	181	34	0
Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	77	0	256	73
Stage 1	-	-	-	-	73	-
Stage 2	-	-	-	-	183	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1522	-	733	989
Stage 1	-	-	-	-	950	-
Stage 2	-	-	-	-	848	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1522	-	732	989
Mov Cap-2 Maneuver	-	-	-	-	732	-
Stage 1	-	-	-	-	950	-
Stage 2	-	-	-	-	847	-
Approach	EB	WB		NB		
HCM Control Delay, s	0	0		10.2		
HCM LOS	B					
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	732	-	-	1522	-	
HCM Lane V/C Ratio	0.047	-	-	0.001	-	
HCM Control Delay (s)	10.2	-	-	7.4	0	
HCM Lane LOS	B	-	-	A	A	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	








HCM 6th TWSC  
3: Lonesome Pine Trl & Latigo Blvd

2041 Total Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	60	4	1	161	9	0
Future Vol, veh/h	60	4	1	161	9	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	64	4	1	171	10	0
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	68	0	239	66
Stage 1	-	-	-	-	66	-
Stage 2	-	-	-	-	173	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1533	-	749	998
Stage 1	-	-	-	-	957	-
Stage 2	-	-	-	-	857	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1533	-	748	998
Mov Cap-2 Maneuver	-	-	-	-	748	-
Stage 1	-	-	-	-	957	-
Stage 2	-	-	-	-	856	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		9.9	
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	748	-	-	1533	-	
HCM Lane V/C Ratio	0.013	-	-	0.001	-	
HCM Control Delay (s)	9.9	-	-	7.3	0	
HCM Lane LOS	A	-	-	A	A	
HCM 95th %tile Q(veh)	0	-	-	0	-	

HCM 6th TWSC  
4: Ponca Canyon Trl & Latigo Blvd

2041 Total Traffic  
AM Peak Hour

Intersection												
Int Delay, s/veh	2.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	49	7	8	116	2	36	0	16	5	0	9
Future Vol, veh/h	3	49	7	8	116	2	36	0	16	5	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	225	-	215	225	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	52	7	9	123	2	38	0	17	5	0	10

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	125	0	0	59	0	0	205	201	52	212	207	124
Stage 1	-	-	-	-	-	-	58	58	-	142	142	-
Stage 2	-	-	-	-	-	-	147	143	-	70	65	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1462	-	-	1545	-	-	753	695	1016	745	690	927
Stage 1	-	-	-	-	-	-	954	847	-	861	779	-
Stage 2	-	-	-	-	-	-	856	779	-	940	841	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1462	-	-	1545	-	-	741	689	1016	728	684	927
Mov Cap-2 Maneuver	-	-	-	-	-	-	741	689	-	728	684	-
Stage 1	-	-	-	-	-	-	952	845	-	859	774	-
Stage 2	-	-	-	-	-	-	842	774	-	922	839	-










Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.5			9.8			9.3		
HCM LOS							A			A		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	808	1462	-	-	1545	-	-	845
HCM Lane V/C Ratio	0.068	0.002	-	-	0.006	-	-	0.018
HCM Control Delay (s)	9.8	7.5	-	-	7.3	-	-	9.3
HCM Lane LOS	A	A	-	-	A	-	-	A
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.1

HCM 6th TWSC  
5: Eastonville Rd & Latigo Blvd

2041 Total Traffic  
AM Peak Hour

Intersection												
Int Delay, s/veh	6.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	28	34	51	64	1	47	60	26	5	61	15
Future Vol, veh/h	9	28	34	51	64	1	47	60	26	5	61	15
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	200	-	200	200	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	10	30	36	54	68	1	50	64	28	5	65	16





Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	296	275	73	280	255	64	81	0	0	92	0	0
Stage 1	83	83	-	164	164	-	-	-	-	-	-	-
Stage 2	213	192	-	116	91	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	656	632	989	672	649	1000	1517	-	-	1503	-	-
Stage 1	925	826	-	838	762	-	-	-	-	-	-	-
Stage 2	789	742	-	889	820	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	584	609	989	606	626	1000	1517	-	-	1503	-	-
Mov Cap-2 Maneuver	584	609	-	606	626	-	-	-	-	-	-	-
Stage 1	894	824	-	810	737	-	-	-	-	-	-	-
Stage 2	692	718	-	823	818	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	10.3		11.4		2.6		0.5	
HCM LOS	B		B					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1517	-	-	584	772	606	630	1503	-	-
HCM Lane V/C Ratio	0.033	-	-	0.016	0.085	0.09	0.11	0.004	-	-
HCM Control Delay (s)	7.5	-	-	11.3	10.1	11.5	11.4	7.4	-	-
HCM Lane LOS	A	-	-	B	B	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0.3	0.3	0.4	0	-	-

HCM 6th TWSC  
8: Eastonville Rd & Constengo Trl South

2041 Total Traffic  
AM Peak Hour

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	7	27	9	165	310	2
Future Vol, veh/h	7	27	9	165	310	2
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	-	200	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	29	10	176	330	2




Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	527	331	332	0	-	0
Stage 1	331	-	-	-	-	-
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	512	711	1227	-	-	-
Stage 1	728	-	-	-	-	-
Stage 2	837	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	508	711	1227	-	-	-
Mov Cap-2 Maneuver	582	-	-	-	-	-
Stage 1	722	-	-	-	-	-
Stage 2	837	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.6	0.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1227	-	680	-	-
HCM Lane V/C Ratio	0.008	-	0.053	-	-
HCM Control Delay (s)	8	-	10.6	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-




HCM 6th TWSC  
2: Oregon Wagon Trl & Latigo Blvd

2041 Total Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.7					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	200	34	0	116	22	1
Future Vol, veh/h	200	34	0	116	22	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	213	36	0	123	23	1
Major/Minor	Major1	Major2		Minor1		
Conflicting Flow All	0	0	249	0	354	231
Stage 1	-	-	-	-	231	-
Stage 2	-	-	-	-	123	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1317	-	644	808
Stage 1	-	-	-	-	807	-
Stage 2	-	-	-	-	902	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1317	-	644	808
Mov Cap-2 Maneuver	-	-	-	-	644	-
Stage 1	-	-	-	-	807	-
Stage 2	-	-	-	-	902	-
Approach	EB	WB		NB		
HCM Control Delay, s	0	0		10.8		
HCM LOS	B					
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	650	-	-	1317	-	
HCM Lane V/C Ratio	0.038	-	-	-	-	
HCM Control Delay (s)	10.8	-	-	0	-	
HCM Lane LOS	B	-	-	A	-	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	








HCM 6th TWSC  
3: Lonesome Pine Trl & Latigo Blvd

2041 Total Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	181	20	0	110	6	0
Future Vol, veh/h	181	20	0	110	6	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	193	21	0	117	6	0
Major/Minor	Major1	Major2		Minor1		
Conflicting Flow All	0	0	214	0	321	204
Stage 1	-	-	-	-	204	-
Stage 2	-	-	-	-	117	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1356	-	673	837
Stage 1	-	-	-	-	830	-
Stage 2	-	-	-	-	908	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1356	-	673	837
Mov Cap-2 Maneuver	-	-	-	-	673	-
Stage 1	-	-	-	-	830	-
Stage 2	-	-	-	-	908	-
Approach	EB	WB		NB		
HCM Control Delay, s	0	0		10.4		
HCM LOS	B					
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	673	-	-	1356	-	
HCM Lane V/C Ratio	0.009	-	-	-	-	
HCM Control Delay (s)	10.4	-	-	0	-	
HCM Lane LOS	B	-	-	A	-	
HCM 95th %tile Q(veh)	0	-	-	0	-	










HCM 6th TWSC  
4: Ponca Canyon Trl & Latigo Blvd

2041 Total Traffic  
PM Peak Hour

Intersection												
Int Delay, s/veh	1.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	131	40	17	85	6	20	0	9	3	0	6
Future Vol, veh/h	10	131	40	17	85	6	20	0	9	3	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	225	-	215	225	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	139	43	18	90	6	21	0	10	3	0	6
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	96	0	0	182	0	0	293	293	139	317	333	93
Stage 1	-	-	-	-	-	-	161	161	-	129	129	-
Stage 2	-	-	-	-	-	-	132	132	-	188	204	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1498	-	-	1393	-	-	659	618	909	636	587	964
Stage 1	-	-	-	-	-	-	841	765	-	875	789	-
Stage 2	-	-	-	-	-	-	871	787	-	814	733	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1498	-	-	1393	-	-	645	606	909	619	575	964
Mov Cap-2 Maneuver	-	-	-	-	-	-	645	606	-	619	575	-
Stage 1	-	-	-	-	-	-	835	760	-	869	779	-
Stage 2	-	-	-	-	-	-	854	777	-	800	728	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			1.2			10.3			9.5		
HCM LOS							B			A		
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)	709	1498	-	-	1393	-	-	813				
HCM Lane V/C Ratio	0.044	0.007	-	-	0.013	-	-	0.012				
HCM Control Delay (s)	10.3	7.4	-	-	7.6	-	-	9.5				
HCM Lane LOS	B	A	-	-	A	-	-	A				
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0				






HCM 6th TWSC  
5: Eastonville Rd & Latigo Blvd

2041 Total Traffic  
PM Peak Hour

Intersection												
Int Delay, s/veh	6.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	80	47	46	53	4	42	88	66	3	85	13
Future Vol, veh/h	17	80	47	46	53	4	42	88	66	3	85	13
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	200	-	200	200	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	18	85	50	49	56	4	45	94	70	3	90	14
Major/Minor	Minor2		Minor1		Major1		Major2		Major2		Major2	
Conflicting Flow All	352	357	97	355	294	94	104	0	0	164	0	0
Stage 1	103	103	-	184	184	-	-	-	-	-	-	-
Stage 2	249	254	-	171	110	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	603	569	959	600	617	963	1488	-	-	1414	-	-
Stage 1	903	810	-	818	747	-	-	-	-	-	-	-
Stage 2	755	697	-	831	804	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	543	551	959	489	597	963	1488	-	-	1414	-	-
Mov Cap-2 Maneuver	543	551	-	489	597	-	-	-	-	-	-	-
Stage 1	876	808	-	793	725	-	-	-	-	-	-	-
Stage 2	672	676	-	703	802	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB		SB		SB	
HCM Control Delay, s	11.9		12.3		1.6		0.2					
HCM LOS	B		B									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR		
Capacity (veh/h)	1488	-	-	543	654	489	613	1414	-	-		
HCM Lane V/C Ratio	0.03	-	-	0.033	0.207	0.1	0.099	0.002	-	-		
HCM Control Delay (s)	7.5	-	-	11.9	11.9	13.2	11.5	7.6	-	-		
HCM Lane LOS	A	-	-	B	B	B	B	A	-	-		
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0.8	0.3	0.3	0	-	-		

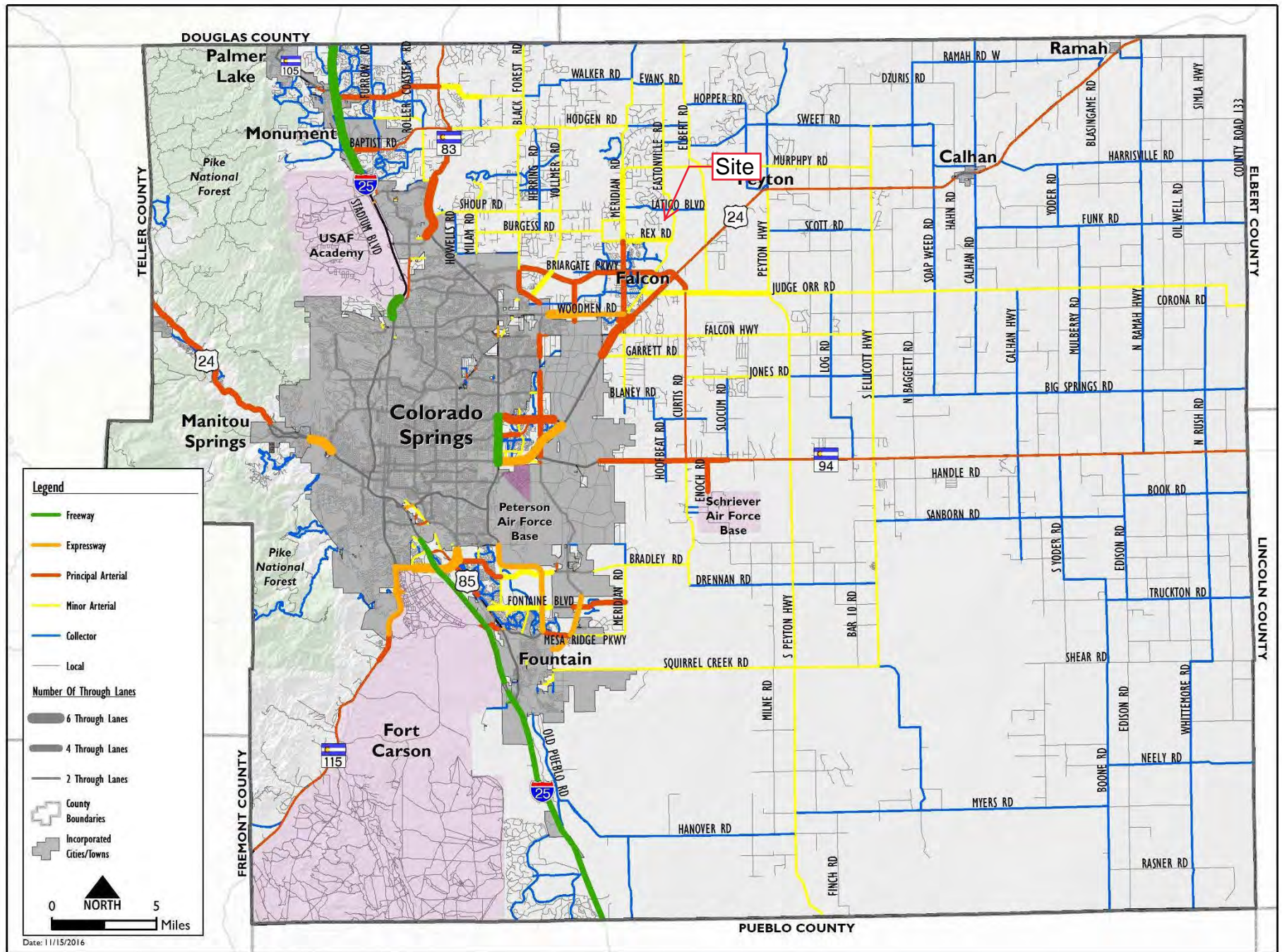
HCM 6th TWSC  
8: Eastonville Rd & Constengo Trl South

2041 Total Traffic  
PM Peak Hour

Intersection						
Int Delay, s/veh	0.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	18	30	374	264	8
Future Vol, veh/h	4	18	30	374	264	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	-	200	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	19	32	398	281	9
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	748	286	290	0	-	0
Stage 1	286	-	-	-	-	-
Stage 2	462	-	-	-	-	-
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	380	753	1272	-	-	-
Stage 1	763	-	-	-	-	-
Stage 2	634	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	371	753	1272	-	-	-
Mov Cap-2 Maneuver	479	-	-	-	-	-
Stage 1	744	-	-	-	-	-
Stage 2	634	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	10.5	0.6		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1272	-	682	-	-	
HCM Lane V/C Ratio	0.025	-	0.034	-	-	
HCM Control Delay (s)	7.9	-	10.5	-	-	
HCM Lane LOS	A	-	B	-	-	
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-	

# MTCP Maps

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Map 14: 2040 Roadway Plan (Classification and Lanes)



## Appendix Table 1

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**Appendix Table 1**  
**Area Traffic Impact Studies by LSC**  
**Latigo Preserve Fil 10**

<b>Study</b>	<b>Date</b>
<b>Meridian Ranch</b>	
Meridian Ranch Sketch Plan TIA	April 11, 2011
Meridian Ranch Filing 11 Updated TIA	November 26, 2013
Stonebridge at Meridian Ranch Filing No. 1 Updated TIA	April 23, 2014
Stonebridge at Meridian Ranch Transportation Memorandum	July 28, 2015
Meridian Ranch Filing 8 Updated TIA	December 23, 2014
Meridian Ranch Filing 9 Updated TIA	May 21, 2015
Meridian Ranch Sketch Plan 2015 Amendment TIA	July 30, 2015
The Vistas at Meridian Ranch TIA	March 24, 2016
Meridian Ranch Estates Filing No. 2 Transportation Memorandum	August 27, 2015
The Vistas at Meridian Ranch Updated Transportation Memorandum	June 20, 2017
Londonderry Drive Pedestrian Operations and Safety Study	February 8, 2017
Stonebridge Filing 3 at Meridian Ranch Updated TIA	March 20, 2017
Meridian Ranch Sketch Plan 2017 Amendment TIA	October 3, 2017
WindingWalk at Meridian Ranch and The Enclave at Stonebridge at Meridian Ranch Updated Traffic Impact Analysis	May 10, 2018
Rolling Hills Ranch at Meridian Ranch PUDSP Traffic Impact Analysis	June 29, 2020
The Estates at Rolling Hills Ranch Filing No. 1 Traffic Impact Analysis	May 13, 2020
Rolling Hills Ranch at Meridian Ranch Filing No. 1 Traffic Impact Analysis	July 14, 2020
The Estates at Rolling Hills Ranch Filing No. 2 Traffic Impact Study	October 8, 2020
Rolling Hills Ranch at Meridian Ranch Filing No. 2 Transportation Memorandum	December 29, 2020
Rolling Hills Ranch at Meridian Ranch Filing No. 3 Transportation Memorandum	March 22, 2021
Meridian Ranch Sketch Plan 2021 Amendment Traffic Impact Analysis	May 4, 2021
<b>Grandview Reserve</b>	
Grandview Reserve Updated Master TIA	December 5, 2020
Grandview Reserve Phase 1 TIA	August 12, 2021
<b>Waterbury/4-Way Ranch</b>	
Waterbury PUD Development Plan Updated TIA	January 10, 2013
Waterbury Filing Nos. 1 and 2 TIA	September 28, 2021
<b>Meadowlake Ranch</b>	
Meadowlake Ranch Traffic Impact Analysis	May 29, 2019
Source: LSC Transportation Consultants, Inc. (March 2022)	

## BRJM, LLC Letter dated January 28, 2022

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*BRJM, LLC*  
*17 S. Wahsatch Avenue*  
*Colorado Springs, CO 80903*

DELIVERED VIA EMAIL

January 28, 2022

Ms. Elizabeth Nijkamp, P.E.  
Mr. Gilbert LaForce, P.E.  
El Paso County Development Services  
2880 International Circle, Suite 110  
Colorado Springs, CO 80910

RE: Latigo Trails, Filing Numbers 9 and 10, Eastonville Road

Dear Ms. Nijkamp and Mr. LaForce:

In the comments to the submitted Traffic Impact Study by LSC Transportation Consultants, Inc. dated October 13, 2021, for the above-referenced filings, the County had conditioned approval of the final plats on the construction of a three-lane urban collector on Eastonville Road from Latigo Blvd. to Rex Road (the location of which remains ambiguous). On January 4, 2022, Jeff Hodsdon, LSC Transportation Consultants, Inc. (LSC), Bryan Law, JR Engineering (JR), Bill Guman and Ed Morgan, Guman & Associates (Guman), and I, a manager of the developing entity, BRJM, LLC (BRJM), met with you (County) to discuss the condition. At the close of the meeting, the County asked BRJM to propose an alternative.

After the meeting, BRJM tasked LSC and JR to provide BRJM a sketch of a cross section of Eastonville Road and the cost of the segment of the improvement from the future Conestoga Trail South intersection to Rex Road. The approximate cost equaled \$1,432,722.00 with the Rex Road intersection projected to be located north of the ballpark fields on the west side of Eastonville Road. This estimate would likely need revisions.

As I mentioned in our meeting, I had questioned whether Latigo Trails Filing 9 or 10 had a roughly proportionate impact on Eastonville Road to justify the condition. Once BRJM had the cost information, it requested LSC to determine Latigo Trails Filings 9 and 10's impact on Eastonville Road. Latigo Trails Filing 9's Short-Term impact is 9.2%, and Latigo Trails Filing 10's Short-Term impact is 10.1%. The Long-Term impact is even less. The Short-Term impact was calculated assuming the Conestoga Trail South intersection was not constructed while the Long-Term impact was calculated assuming it was built. Please see attached Exhibits A and B.

For a jurisdiction to condition approvals on an exaction of this nature, the project's impact on the public expense must be "roughly proportional" to the cost imposed on the developer. Because our impact is minimal, it does not satisfy the roughly proportional requirement, regardless of cost. Moreover, it is BRJM's understanding that the County Traffic Impact Fee (TIF) was specifically designed and implemented to address these situations. To BRJM's knowledge, Eastonville Road is listed as an improvement for this program (and/or for the Regional Transportation Authority).

BRJM retained Bruce Wright, an attorney with Flynn & Wright, LLC, and asked him if the County had the legal right to condition Latigo Trails Filing 9 or 10 upon the construction of Eastonville Road. Upon review, Mr. Wright advises us that the County has no legal basis to condition any approval for Latigo Trails Filing 9 or 10 on the construction or improvement of Eastonville Road. Additionally, Mr. Wright advised BRJM that future filings could not be conditioned presently.

Given Latigo Trails Filing 9's or 10's minimal impact on Eastonville Road and per the advice of counsel, BRJM cannot justify the assumption of the responsibility of satisfying the County's request to improve Eastonville Road, regardless of size or nature. Latigo Trails Filings 9 and 10's Traffic Impact Fee covers its fair share.

BRJM will resubmit its applications for Latigo Trails Filings 9 and 10 within weeks. The resubmitted TIS will reference this letter in response to the County's comments on Eastonville Road and will ask the County to contact Bruce Wright with any questions it might have.

If you wish to meet to discuss BRJM's decision, please contact Bill Guman to schedule a time, and we will be pleased to meet with you.

Thank you for your time and consideration of this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read 'R. Irwin', followed by a horizontal line.

Robert C. Irwin, Manager

cc:

Bruce Wright, Flynn Wright, & Fredman  
Jeff Hodsdon, LSC Transportation Consultants, Inc.  
Bryan Law, JR Engineering  
Bill Guman, Guman & Associates  
Ed Morgan, Guman & Associates

<b>Percent Impacts</b> <b>Eastonville Road South of the future Conestoga Trail</b> <b>Latigo Trails Filings 9 and 10</b>		
Scenario/ Traffic Source	Average Daily Traffic	
	Vehicles per day	% of Total
<b>Short-Term</b>		
Existing Traffic	480	80.7%
Latigo Trails Filing 9 (site)	55	9.2%
Latigo Trails Filing 10 (site)	60	10.1%
<b>Total</b>	<b>595</b>	<b>100%</b>
<b>Long-Term</b>		
Existing Traffic	480	7.2%
Latigo Trails Filing 9 (site)	140	2.1%
Latigo Trails Filing 10 (site)	155	2.3%
Future Background Traffic	5850	88.3%
<b>Total</b>	<b>6625</b>	<b>100%</b>
Source: LSC Transportation Consultants, Inc.		01/25/22

<b>Percent Impacts</b> <b>Eastonville Road South of Latigo Blvd.</b> <b>Latigo Trails Filings 9 and 10</b>		
Scenario/ Traffic Source	Average Daily Traffic	
	day	% of Total
<b>Short-Term</b>		
Existing Traffic	480	80.7%
Latigo Trails Filing 9 (site)	55	9.2%
Latigo Trails Filing 10 (site)	60	10.1%
<b>Total</b>	<b>595</b>	<b>100%</b>
<b>Long-Term</b>		
Existing Traffic	480	13.1%
Latigo Trails Filing 9 (site)	40	1.1%
Latigo Trails Filing 10 (site)	35	1.0%
Other Background Traffic	3110	84.9%
<b>Total</b>	<b>3665</b>	<b>100%</b>
Source: LSC Transportation Consultants, Inc.		01/25/22