



## **Kimley**»Horn

Traffic Engineer's Statement

The attached 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.

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Curtis D. Rowe, P.E., PE #36355

Developer's Statement

March 27, 2024 \_\_\_\_\_ Date

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

Mr/Michael Butler

GWH, LLC 6547 N Academy Boulevard Colorado Springs, Colorado 80918

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March 27, 2024

GWH, LLC 6547 N Academy Boulevard Colorado Springs, Colorado 80918

Attn: Mr. Michael Butler Manager

Re: Kristin Estates Traffic Study Letter El Paso County / Ellicott, Colorado

Dear Mr. Butler,

This traffic study letter has been prepared for a proposed Kristin Estates residential project to be located along the north side of State Highway 94 (SH-94), west of Ellicott Highway in El Paso County / Ellicott, Colorado. The existing property is a vacant parcel. A vicinity map illustrating the location of the property is attached as Figure 1. The surrounding area primarily consists of single-family homes on large 5+ acre lots. Kristin Estates is proposed to include up to 12 single family homes on 60 acres with 5-acre lots. The rezoning map is attached for reference.

This traffic letter identifies the amount of traffic associated with this proposed development and the expected project trip distribution and traffic assignment. Access will be provided by an existing private full movement rural local road along SH-94. An auxiliary turn lane assessment of the SH-94 Private rural local road is included in this analysis per the State of Colorado Department of Transportation (CDOT) State Highway Access Code (SHAC) requirements. This study also follows El Paso County guidelines to serve as a Traffic Memorandum based on the daily trip generation being between 100 and 500 trips per day.

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#### **EXISTING ROADWAY NETWORK**

Direct access to the development will be provided by an existing full movement private rural local road along the north side of SH-94. SH-94 extends east-west with one through lane in each direction. The posted speed limit is 50 miles per hour for eastbound traffic and 65 miles per hour for westbound traffic. SH-94 is classified by CDOT as a *Non-Rural Principal Highway* (NR-A).

This private rural local road intersection currently serves a trailer yard and other residential homes and currently operates with stop control on the northbound approach of the private roadway. Of note, there is a driveway located along the south side of SH-94 slightly misaligned to the west. The intersection does not provide auxiliary turn lanes along the State Highway. An aerial photo that illustrates the existing intersection configuration is below (north is up).



SH-94 and Private Rural Local Road

The intersection lane configuration and control for this study area intersection is shown in attached **Figure 2.** 

#### PEDESTRIAN AND BICYCLE FACILITIES REVIEW

There are no pedestrian and bicycle facilities along SH-94 or within the study area. This project is not anticipated to create the need for these alternate travel mode facilities.

#### PUBLIC TRANSPORTATION SERVICES FACILITY REVIEW

There is no public transportation service in this area. With the rural nature, it is believed that public transportation to serve this area is not feasible.



#### **EXISTING AND FUTURE TRAFFIC VOLUMES**

Existing vehicle turning movement counts were conducted at the SH-94 private rural local road on Thursday, January 12, 2023 during the morning and afternoon peak hours. These counts included bicycle and pedestrian volumes, although none were observed. The counts were conducted during the morning and afternoon peak hours of adjacent street traffic in 15-minute intervals from 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM on this count date. The existing intersection traffic volumes are also shown in attached **Figure 2** with count sheets attached.

According to traffic projections provided by CDOT Online Transportation Information System (OTIS), SH-94 is expected to have a 20-year growth factor of 1.2. This equates to an annual growth rate of approximately 0.9 percent. Therefore, an annual growth rate of one (1) percent was used to calculate short-term 2025 and long-term 2045 background traffic projections along SH-94. CDOT traffic projection information is attached.

#### TRIP GENERATION

Site-generated traffic estimates are determined through a process known as trip generation. Rates and equations are applied to the proposed land use to estimate traffic generated by the development during a specific time interval. The acknowledged source for trip generation rates is the *Trip Generation Manual*<sup>1</sup> published by the Institute of Transportation Engineers (ITE). ITE has established trip rates in nationwide studies of similar land uses. For this study, Kimley-Horn used the ITE Trip Generation Manual average rates that apply to Single-Family Detached Housing (ITE Code 210) for traffic associated with this development. The following **Table 1** summarizes the estimated trip generation for traffic associated with the development (calculations attached).

Table 1 – Kris	stin Estates	Traffic Generation
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		We	ekday	Vehicle	es Trip	S	
		AN	l Peak	Hour	PM	Peak	Hour
Use	Daily	In	Out	Total	In	Out	Total
Single Family Detached Housing (ITE 210) 12 Dwelling Units	114	2	6	8	7	4	11

As shown in the table and based on ITE Trip Generation calculations, Kristin Estates is expected to generate approximately 114 weekday daily trips, with eight (8) of these trips occurring during the morning peak hour and 11 of these trips occurring during the afternoon peak hour.

#### TRIP DISTRIBUTION AND TRAFFIC ASSIGNMENT

Distribution of site traffic on the street system was based on the area street system characteristics, existing traffic patterns, existing and anticipated surrounding employment, school, and attraction information, and the proposed access system for the project. The directional distribution of traffic is a means to quantify the percentage of site-generated traffic that approaches the site from a given direction and departs the site back to the original source. The traffic assignment was obtained by applying the project trip distribution to the estimated traffic generation of the development shown in **Table 1. Figure 3** illustrates the trip distribution and the traffic assignment for this project.

<sup>&</sup>lt;sup>1</sup> Institute of Transportation Engineers, *Trip Generation Manual*, Eleventh Edition, Washington DC, 2021.



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#### TOTAL (BACKGROUND PLUS PROJECT) TRAFFIC

Site traffic volumes were added to the background volumes to represent estimated total traffic conditions for the 2025 and 2045 horizons. These total traffic volumes for the study area are illustrated for the 2025 and 2045 horizon years in **Figures 4** and **5**, respectively.

#### **TRAFFIC OPERATIONS ANALYSIS**

Kimley-Horn's analysis of traffic operations was conducted to determine potential capacity deficiencies at the project private rural local road intersection along SH-94 for the buildout 2025 year and long-term planning 2045 year. The acknowledged source for determining overall capacity is the Highway Capacity Manual<sup>2</sup>. Capacity analysis results are listed in terms of Level of Service (LOS). LOS is a qualitative term describing operating conditions a driver will experience while traveling on a particular street or highway during a specific time interval. It ranges from A (very little delay) to F (long delays and congestion). For intersections and roadways, standard traffic engineering practice recommends LOS D as the minimum threshold for acceptable operations for intersections and LOS E for movements. **Table 2** below shows the definition of level of service for unsignalized intersections.

I able 2	- Level of Service Definitions
Level of Service	Unsignalized Intersection Average Total Delay (sec/veh)
A	≤ 10
В	> 10 and ≤ 15
С	> 15 and ≤ 25
D	> 25 and ≤ 35
E	> 35 and ≤ 50
F	> 50

### Table 2 - Level of Service Definitions

Transportation Research Board, Highway Capacity Manual, Sixth Edition, Washington DC, 2016.

#### SH-94 Private Rural Local Road

The proposed Kristin Estate project private rural local road intersection operates with stop control on the southbound private rural local road approach. As shown in the table, the intersection movements currently operate acceptably with LOS B or better. With the addition of the Kristin Estates residential project, all movements are anticipated to operate acceptably with LOS B or better during the studied peak hours throughout 2045. **Table 3** provides the results of the level of service at this intersection (calculations attached).

	AM Peak	Hour	PM Peak I	Hour
Scenario	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
2023 Existing				
Eastbound Left	7.9	А	-	-
Southbound Approach	10.0	В	9.9	Α
2025 Total				
Eastbound Left	7.9	А	7.7	Α
Southbound Approach	10.6	В	10.1	В
2045 Total				
Eastbound Left	8.1	А	7.8	Α
Southbound Approach	11.4	В	10.6	В

#### Table 3 – SH-94 Private Rural Local Road LOS Results

<sup>&</sup>lt;sup>2</sup> Transportation Research Board, *Highway Capacity Manual*, Sixth Edition, Washington DC, 2016.



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#### CDOT ACCESS PERMIT AND TURN LANE EVALAUTION

The threshold for requiring an access permit along CDOT roadways occurs when project traffic is anticipated to increase the existing access traffic volume by more than 20 percent. Based on traffic projections, the addition of project traffic on the north leg of the private rural local road at SH-94 is anticipated to increase existing traffic volumes by more than 20 percent. Therefore, a CDOT Access Permit is anticipated to be needed at this intersection in association with this project.

Auxiliary turn lane requirements were calculated based on the State of Colorado State Highway Access Code (SHAC) for the intersection of private rural local road at SH-94. SH-94 is categorized as NR-A: Non-Rural Principal Highway within the study limits. According to the State Highway Access Code for category NR-A roadways, the following thresholds apply for implementation of auxiliary turn lanes:

- A left turn deceleration lane with taper and storage length is required for any access with a projected peak hour left ingress turning volume greater than 10 vehicles per hour (vph). The taper length will be included within the required deceleration length.
- A right turn deceleration lane and taper length is required for any access with a projected peak hour right ingress turning volume greater than 25 vehicles per hour (vph). The taper length will be included within the required deceleration length.
- A right turn acceleration lane and taper length is required for any access with a projected peak hour right turning volume greater than 50 vehicles per hour (vph) when the posted speed on the highway is greater than 40 mph. The taper length will be included within the required acceleration length.

Based on these thresholds and warrants contained in the Access Code, the NR-A (Non-Rural Principal Highway) designation of SH-94, a 50-mph posted speed limit eastbound, and a 65-mph posted speed limit westbound, and the anticipated project traffic volume in 2045 are as follows:

- An eastbound left turn deceleration <u>is not</u> warranted based on the projected 2045 background plus project traffic being five (5) eastbound left turns during the afternoon peak hour and the threshold being 10 vehicles per hour.
- A westbound right turn deceleration lane <u>is not</u> warranted based on the projected 205 background plus project traffic being 2 westbound right turns during the afternoon peak hour and the threshold being 25 vehicles per hour.
- An acceleration lane for the southbound right to westbound through <u>is not</u> warranted based on the projected 2025 background plus project traffic being seven (7) southbound right turns during the peak hour and the threshold being 50 vehicles per hour.

#### SIGHT DISTANCE EVALUATION

It is recommended that sight triangles be provided at the site private rural local road points along SH-94 to give drivers exiting a clear view of oncoming traffic. Landscaping and objects within sight triangles must not obstruct drivers' views of the adjacent travel lanes. AASHTO standards were used along this State Highway to determine the sight distance needs. The following identifies sight distance requirements for the SH-94 Private rural local road intersection associated with the project.

With AASHTO standards and a westbound speed of 65 mph along SH-94, the sight distance for a vehicle turning right from stop is 720 feet. Therefore, all obstructions for right turning vehicles from stop should be clear to the left within the triangle created with a vertex point located 14.5 feet from the edge of the major road traveled way and a line-of-sight distance of 720 feet located in the middle of the westbound through lane along SH-94. With AASHTO standards and an eastbound speed of 50 mph along SH-94, the sight distance for a vehicle turning left from stop is 555 feet. Therefore, all obstructions for left turning vehicles from stop should be clear to the right within the triangle created with a vertex point located 14.5 feet from the edge of the major road traveled way and a line-of-sight distance of 555 feet. Therefore, all obstructions for left turning vehicles from the edge of the major road traveled way and a line-of-sight distance of 555 feet located in the middle of the eastbound through lane along SH-94. SH-94 is straight and flat through

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the private rural local road intersection. The shoulder provides much of the vertical distance needed to the driver's eye and no obstructions were noted to exist. Therefore, it is believed that the existing private rural local road along SH-94 is located to provide necessary sight distances.

### **CONCLUSIONS AND RECOMMENDATIONS**

Based on the traffic analysis presented in this report, Kimley-Horn and Associates, Inc. believes Kristin Estates will be successfully incorporated into the existing and future roadway network. The following outlines the recommendations from our traffic analysis:

- No improvements were identified as being needed for the existing private rural local road intersection along SH-94 to provide access to Kristin Estates.
- It is anticipated that a CDOT access permit will be required in association with the project for the north leg of the private rural local road driveway at SH-94.

If you have any questions or require anything further, please feel free to call me at (303) 228-2304.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

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Ćurtis D. Rowe, P.E., PTOE Vice President



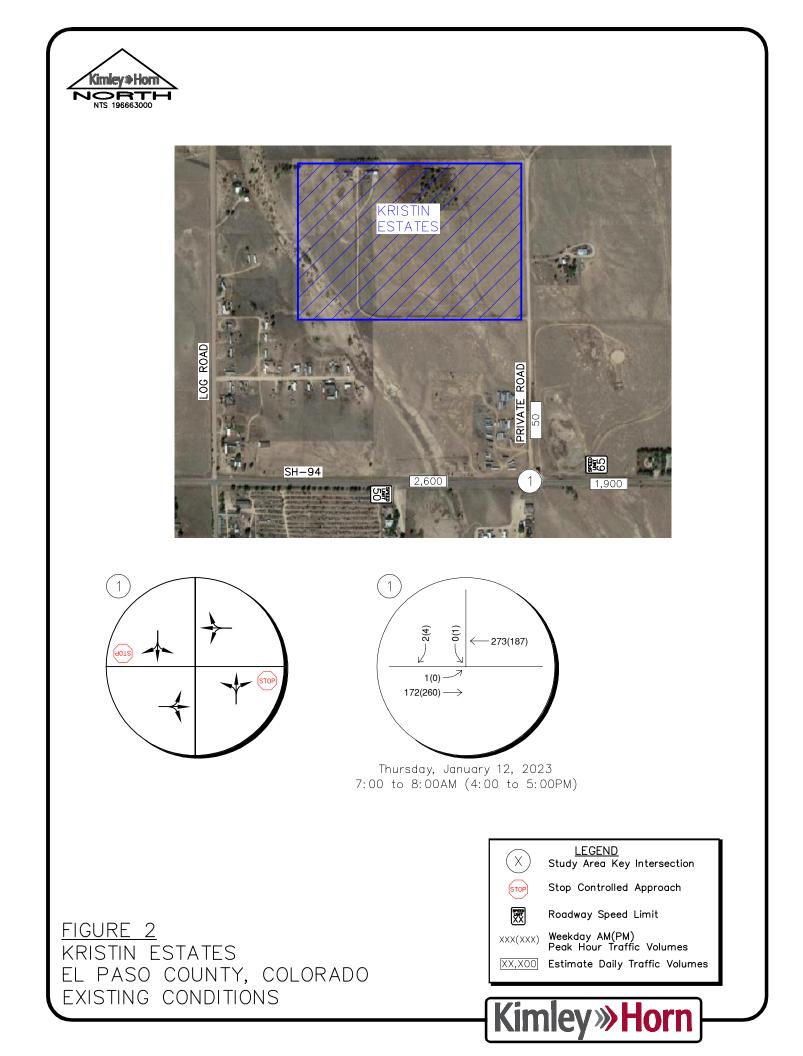
## Figures

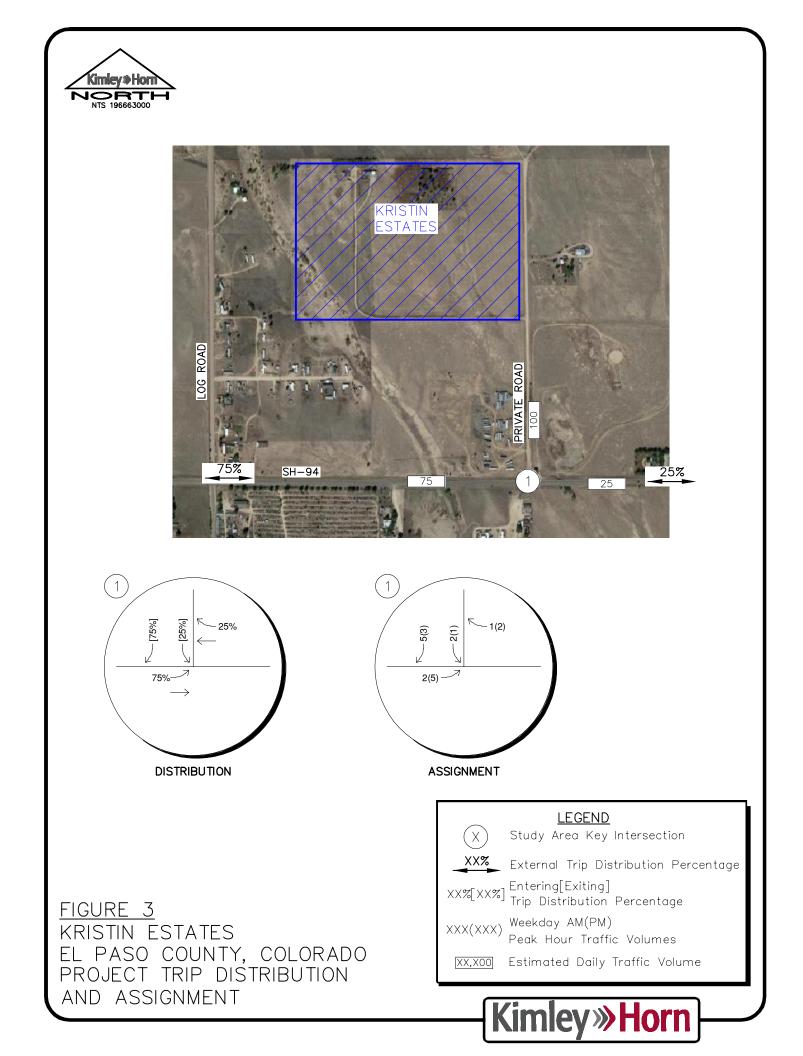


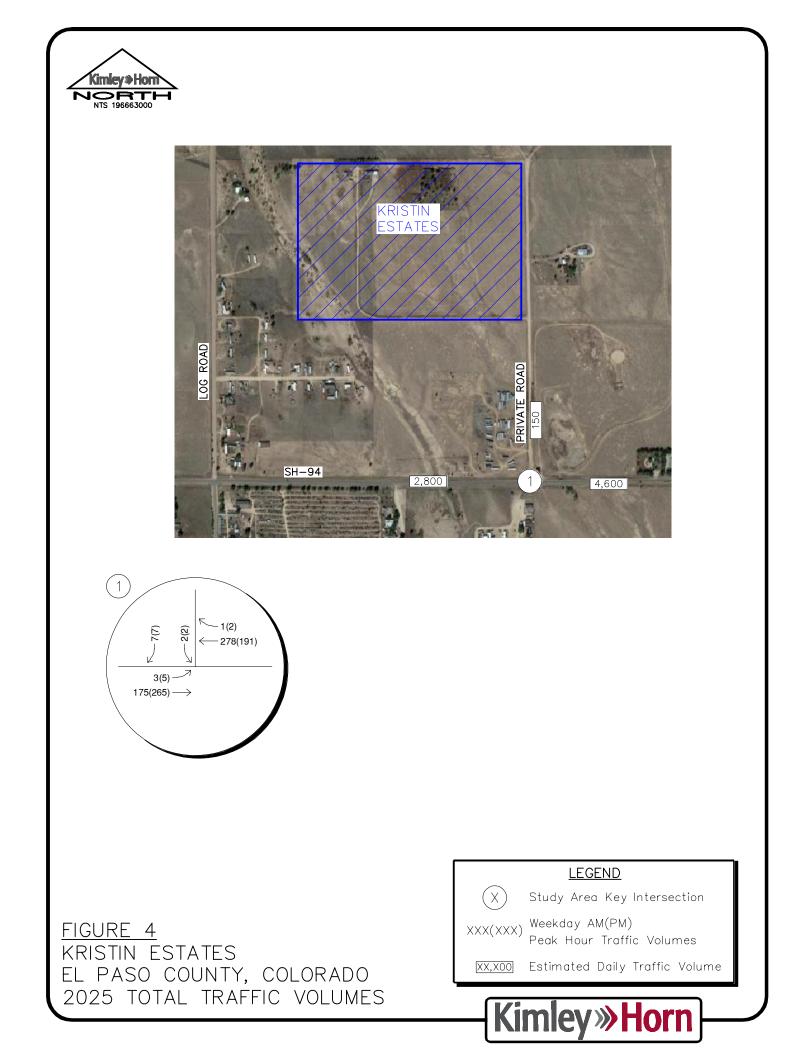


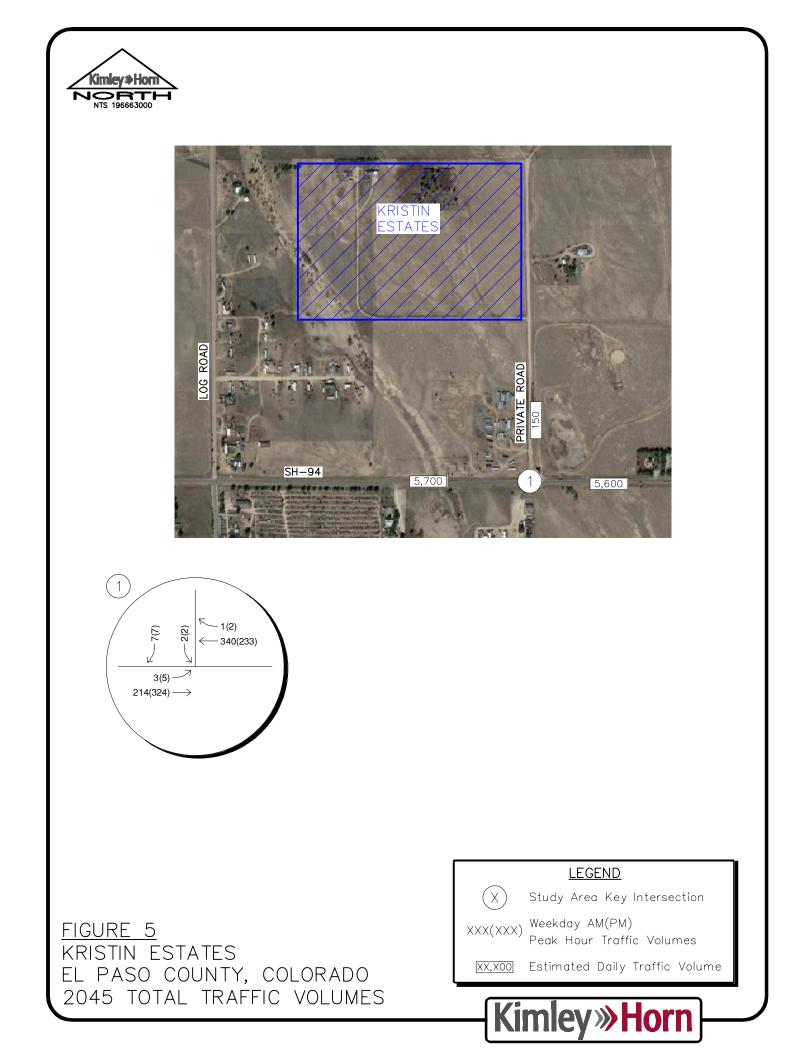
<u>FIGURE 1</u> KRISTIN ESTATES EL PASO COUNTY, COLORADO VICINITY MAP



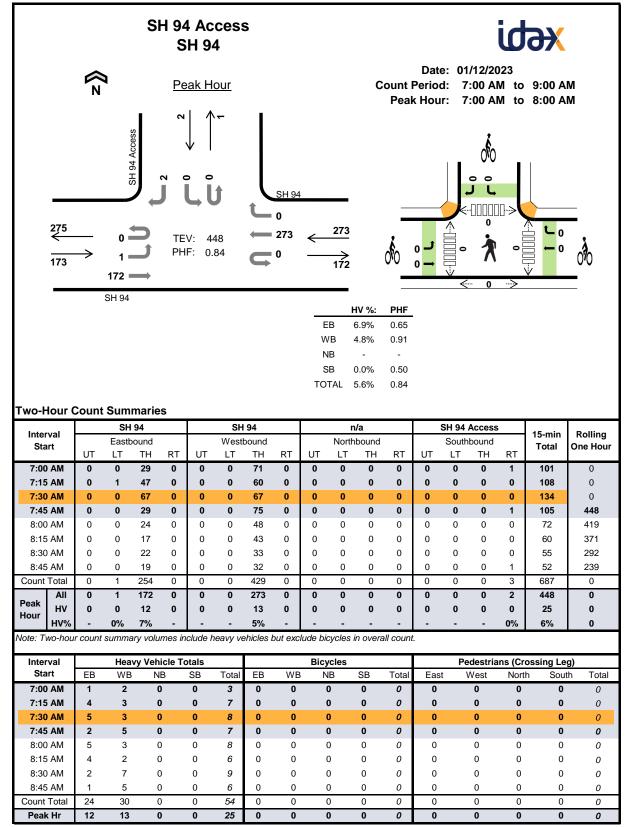








**Intersection Count Sheets** 



8:45 AM

Count Total

Peak Hour

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

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7:15 AM	0	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	7	0
7:30 AM	0	0	5	0	0	0	3	0	0	0	0	0	0	0	0	0	8	0
7:45 AM	0	0	2	0	0	0	5	0	0	0	0	0	0	0	0	0	7	25
8:00 AM	0	0	5	0	0	0	3	0	0	0	0	0	0	0	0	0	8	30
8:15 AM	0	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	6	29
8:30 AM	0	0	2	0	0	0	7	0	0	0	0	0	0	0	0	0	9	30
8:45 AM	0	0	1	0	0	0	5	0	0	0	0	0	0	0	0	0	6	29
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Intern Star 4:00 4:15 4:30 4:45 5:00 5:15 5:30 5:45 Count Peak Hour Note: Tw Note: Tw Star	Val           Int           PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SH           Eastb           LT           0           0           0           1           2           1           6           0           summa           Hear           WB	94 TH 70 69 57 64 67 57 61 70 515 260 18 7% ry volu vy Veh N	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	West LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 57 39 34 40 26 27 24 304 187 11 6% ehicles	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	n/a Northbo LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	a ound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	South LT 0 0 1 0 0 1 0 2 1 0 0%	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 1 2 0 1 0 1 0 5 4 0 0% 0%	Total 128 96 100 108 85 92 95 832 452 29 6% tossing Lean there is a construction of the second	One Hour 0 0 432 389 385 380 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
Intern Star 4:00 4:15 4:30 4:45 5:00 5:15 5:30 5:45 Count Peak Hour Note: Tw Note: Tw Intern Star 4:00	Val Int PM PM PM PM PM PM PM PM PM Total All HV HV% wo-hour Val Int	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	SH           Eastb           LT           0           0           0           1           2           1           6           0           summa           Hear           WB           5	94 TH 70 69 57 64 67 57 61 70 515 260 18 7% ry volu vy Veh N	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	West LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 57 39 34 40 26 27 24 304 187 11 6% ehicles EB 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	n/a Northbo LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	a ound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	South LT 0 0 1 0 0 1 0 2 1 0 0%	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 1 2 0 1 0 1 0 5 4 0 0% 0%	Total 128 96 100 108 85 92 95 832 452 29 6% cossing Lea th Source 0	One Hour 0 0 452 432 389 385 380 0 0 0 0 0 0 0 0 0 0 0 0 0
Intern Star 4:00 4:15 4:30 4:45 5:00 5:15 5:30 5:45 Count Peak Hour Note: Tw Note: Tw Intern Star 4:00 4:15	Val Int PM PM PM PM PM PM PM PM Total All HV HV% wo-hour Val Int PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	SH           Eastb           LT           0           0           0           1           2           1           6           0           0           summa           Hear           WB           5           4	94 Ound TH 70 69 57 64 67 57 61 70 515 260 18 7% rry volu vy Veh N C 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	West LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 57 39 34 40 26 27 24 304 187 11 6% 2hicles EB 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n/a Northbo LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	a ound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	South LT 0 0 1 0 0 1 0 2 1 0 0%	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 1 2 0 1 1 0 1 0 5 4 0 0% 0% 0% 0% 0% 0% 0% 0 0 0 0 0 0 0	Total 128 96 100 108 85 92 95 832 452 29 6% cossing Le th Source 0 0 0	One Hour 0 0 452 432 389 385 380 0 0 0 0 0 0 0 0 0 0 0 0 0
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Inter Star 4:00 4:15 4:30 4:45 5:00 5:15 5:30 5:45 Count Peak Hour Note: Tw Note: Tw Inter Star 4:00 4:15 4:30 4:45 5:00 5:15 5:30	PM       PM <td>UT 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>SH           Eastb           LT           0           0           0           1           2           1           6           0           0           5           4           2           0           1</td> <td>94 ound TH 70 69 57 64 67 57 61 70 515 260 18 7% ry volu vy Veh N 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>West LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>bound TH 57 39 34 40 26 27 24 304 187 11 6% e-hicles EB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>UT 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>n/a Northbo LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>a ound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>UT 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>South LT 0 0 1 0 0 1 0 2 1 0 0%</td> <td>bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>RT 1 2 0 1 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0</td> <td>Total 128 96 100 108 85 92 95 832 452 29 6% th Souther Souther</td> <td>One Hour 0 0 452 432 389 385 380 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	SH           Eastb           LT           0           0           0           1           2           1           6           0           0           5           4           2           0           1	94 ound TH 70 69 57 64 67 57 61 70 515 260 18 7% ry volu vy Veh N 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	West LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 57 39 34 40 26 27 24 304 187 11 6% e-hicles EB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	n/a Northbo LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	a ound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0	South LT 0 0 1 0 0 1 0 2 1 0 0%	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 1 2 0 1 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0	Total 128 96 100 108 85 92 95 832 452 29 6% th Souther	One Hour 0 0 452 432 389 385 380 0 0 0 0 0 0 0 0 0 0 0 0 0

4:30 PM

4:45 PM

5:00 PM

5:15 PM

5:30 PM

5:45 PM

Count Total

Peak Hour

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Southbound         Total         C           T         LT         TH         RT         Total         C           0         0         0         0         12         C           0         0         0         0         7         C           0         0         0         0         6         C           0         0         0         0         9         C           0         0         0         0         6         C           0         0         0         0         6         C           0         0         0         0         7         C           0         0         0         0         7         C           0         0         0         0         7         C           0         0         0         0         8         C	I		SH	94			SH	94			n	/a			SH 94	Access	5	45	Dellar
T       LT       TH       RT       RT         0       0       0       0       12         0       0       0       0       7         0       0       0       0       6         0       0       0       0       4         0       0       0       0       9         0       0       0       0       6         0       0       0       0       7         0       0       0       0       7         0       0       0       8       8	Interval Start		Eastb	ound			West	bound			North	bound			South	bound		15-min Total	Rolling One Hou
0         0         0         0         7           0         0         0         0         6           0         0         0         0         4           0         0         0         0         9           0         0         0         0         6           0         0         0         0         9           0         0         0         0         6           0         0         0         0         9           0         0         0         0         7           0         0         0         0         7	Start	UT	LT	ΤН	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	ΤН	RT	Total	One not
0         0         0         0         6           0         0         0         0         4           0         0         0         0         9           0         0         0         0         6           0         0         0         0         9           0         0         0         0         6           0         0         0         0         9           0         0         0         0         6           0         0         0         0         7           0         0         0         8         8	4:00 PM	0	0	7	0	0	0	5	0	0	0	0	0	0	0	0	0	12	0
0         0         0         0         4           0         0         0         0         9           0         0         0         0         6           0         0         0         0         6           0         0         0         0         7           0         0         0         0         8	4:15 PM	0	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0	7	0
0     0     0     0     9       0     0     0     0     6       0     0     0     0     7       0     0     0     0     8	4:30 PM	0	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	6	0
0     0     0     0     6       0     0     0     0     7       0     0     0     0     8	4:45 PM	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	29
0 0 0 0 7 0 0 0 0 8	5:00 PM	0	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	9	26
0 0 0 8	5:15 PM	0	2	3	0	0	0	1	0	0	0	0	0	0	0	0	0	6	25
	5:30 PM	0	0	5	0	0	0	2	0	0	0	0	0	0	0	0	0	7	26
0 0 0 59	5:45 PM	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	30
	Count Total	0	3	42	0	0	0	14	0	0	0	0	0	0	0	0	0	59	0
0 0 0 0 29	Peak Hour	0	0	18	0	0	0	11	0	0	0	0	0	0	0	0	0	29	0
0 0 0	5:30 PM 5:45 PM Count Total	0 0 0 0	0 0 3 0	5 8 42 <b>18</b>	0 0 0 0	0 0 0 0	0 0 0	2 0 14	0 0 0	0 0 0		7 8 59							
	SH 94				Γ		SH	94			n	/a			SH 94	Access	;		
SH 94 Access	Interval Start		Eastb	ound			West	bound			North	bound			South	bound		-	Rolling One Hou
Southbound 15-min	Jan	LT	т	н	RT	LT	т	н	RT	LT	т	Ή	RT	LT	т	Ή	RT	iotai	one nou
Southbound Total C	4:00 PM	0	(	)	0	0	(	)	0	0		0	0	0		D	0	0	0
Southbound Total C		0		)	0	0		)	0	0		0	0	0	(		0	0	0

Project Manager: (720) 646-1008

**Traffic Projections** 

CDOT OTIS: Kristin Estates Future Traffic Projections

ROUTE	REFPT	ENDREFPT	LENGTH	UPDATEYR	AADT	YR20FACTOR	DHV	LOCATION
094A	13.095	17.1	3.993	2021	4000	1.2	11	ON SH 94 E/O PEYTON HWY CR 463

Trip Generation Worksheet

# Kimley **»Horn**

Subject Trip Generation for Single-Family Detached Housing         Designed by       Job No. 1966300         Checked by       Job No. 1966300         TRIP GENERATION MANUAL TECHNIQUES         ITE       Trip Generation Manual 11th Edition, Average Rate Equations         Land Use Code - Single-Family Detached Housing (210)         Independent Variable - Dwelling Units (X) $X = 12$ $T = Average Vehicle Trip Ends$ Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m. (200 Series Page 220)         Average Weekday       Directional Distribution: 26% ent. 74% et (1) = 0.70(X) $T = 8$ Average Vehicle Trip Ends         Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m. (200 Series Page 221)         Average Weekday       Directional Distribution: 63% ent. 37% et (1) = 0.94(X) $T = 11$ Average Vehicle Trip Ends $T = 11$ Average Vehicle Trip Ends $T = 0.94(X)$ $T = 11$ $T = 11$ Average Vehicle Trip Ends $T = 114$ Average Vehicle Trip Ends		ates		istin Estates	Project Kristir
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				()	., - 0.10
57 + 57 = 114	57 = 114	57			

Level of Service Calculations

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		୍ ଶ୍	4		۰¥	
Traffic Vol, veh/h	1	172	273	0	0	2
Future Vol, veh/h	1	172	273	0	0	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	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	205	325	0	0	2

Major/Minor	Major1	Ν	1ajor2	[	Minor2	
Conflicting Flow All	325	0	-	0	532	325
Stage 1	-	-	-	-	325	-
Stage 2	-	-	-	-	207	-
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	1235	-	-	-	508	716
Stage 1	-	-	-	-	732	-
Stage 2	-	-	-	-	828	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	507	716
Mov Cap-2 Maneuver	-	-	-	-	507	-
Stage 1	-	-	-	-	731	-
Stage 2	-	-	-	-	828	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		10	
HCM LOS					В	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1235	-	-	-	716
HCM Lane V/C Ratio		0.001	-	-	-	0.003
HCM Control Delay (s)	)	7.9	0	-	-	10
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(veh	ר)	0	-	-	-	0

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- सी	ર્ન 🐪		۰¥	
Traffic Vol, veh/h	0	260	187	0	1	4
Future Vol, veh/h	0	260	187	0	1	4
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	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	295	213	0	1	5

Major/Minor	Major1	Ν	/lajor2		Minor2	
Conflicting Flow All	213	0	-	0	508	213
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	295	-
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	
Pot Cap-1 Maneuver	1357	-	-	-	525	827
Stage 1	-	-	-	-	823	-
Stage 2	-	-	-	-	755	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1357	-	-	-	525	827
Mov Cap-2 Maneuver	-	-	-	-	525	-
Stage 1	-	-	-	-	020	-
Stage 2	-	-	-	-	755	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		9.9	
HCM LOS					А	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1357	-	-	-	742
HCM Lane V/C Ratio		-	-	-	-	0.008
HCM Control Delay (s)	)	0	-	-	-	9.9
HCM Lane LOS		A	-	-	-	А
HCM 95th %tile Q(veh	1)	0	-	-	-	0

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- <del>स</del> ्	4		۰¥	
Traffic Vol, veh/h	3	175	278	1	2	7
Future Vol, veh/h	3	175	278	1	2	7
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	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	208	331	1	2	8

Major/Minor	Major1	Ν	lajor2		Vinor2	
Conflicting Flow All	332	0	-	0	548	332
Stage 1	-	-	-	-	001	-
Stage 2	-	-	-	-	216	-
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	
Pot Cap-1 Maneuver	1227	-	-	-	497	710
Stage 1	-	-	-	-	727	-
Stage 2	-	-	-	-	820	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	495	710
Mov Cap-2 Maneuver	-	-	-	-	495	-
Stage 1	-	-	-	-	724	-
Stage 2	-	-	-	-	820	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		10.6	
HCM LOS					В	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR	SBI n1
Capacity (veh/h)		1227			-	648
HCM Lane V/C Ratio		0.003	-	-		0.017
HCM Control Delay (s	)	7.9	0	-	-	
HCM Lane LOS	/	7.7 A	A	_	-	B
HCM 95th %tile Q(ver	1)	0	-	-	-	0.1
	7	0				0.1

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		୍ କ୍	ર્ન 🐪		۰¥	
Traffic Vol, veh/h	5	265	191	2	2	7
Future Vol, veh/h	5	265	191	2	2	7
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	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	301	217	2	2	8

Major/Minor	Major1	Ν	lajor2		Vinor2	
Conflicting Flow All	219	0	-	0	531	218
Stage 1	-	-	-	-	218	-
Stage 2	-	-	-	-	313	-
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	
Pot Cap-1 Maneuver	1350	-	-	-	509	822
Stage 1	-	-	-	-	818	-
Stage 2	-	-	-	-	741	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	506	822
Mov Cap-2 Maneuver	-	-	-	-	506	-
Stage 1	-	-	-	-	814	-
Stage 2	-	-	-	-	741	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		10.1	
HCM LOS					В	
Minor Long/Major Mur	mt.	EBL	ГДТ	WBT	WBR 3	
Minor Lane/Major Mvr	m		EBT	VVDI		
Capacity (veh/h)		1350	-	-	-	722
HCM Lane V/C Ratio	、	0.004	-	-		0.014
HCM Control Delay (s	5)	7.7	0	-	-	10.1
HCM Lane LOS		A	А	-	-	B
HCM 95th %tile Q(ver	n)	0	-	-	-	0

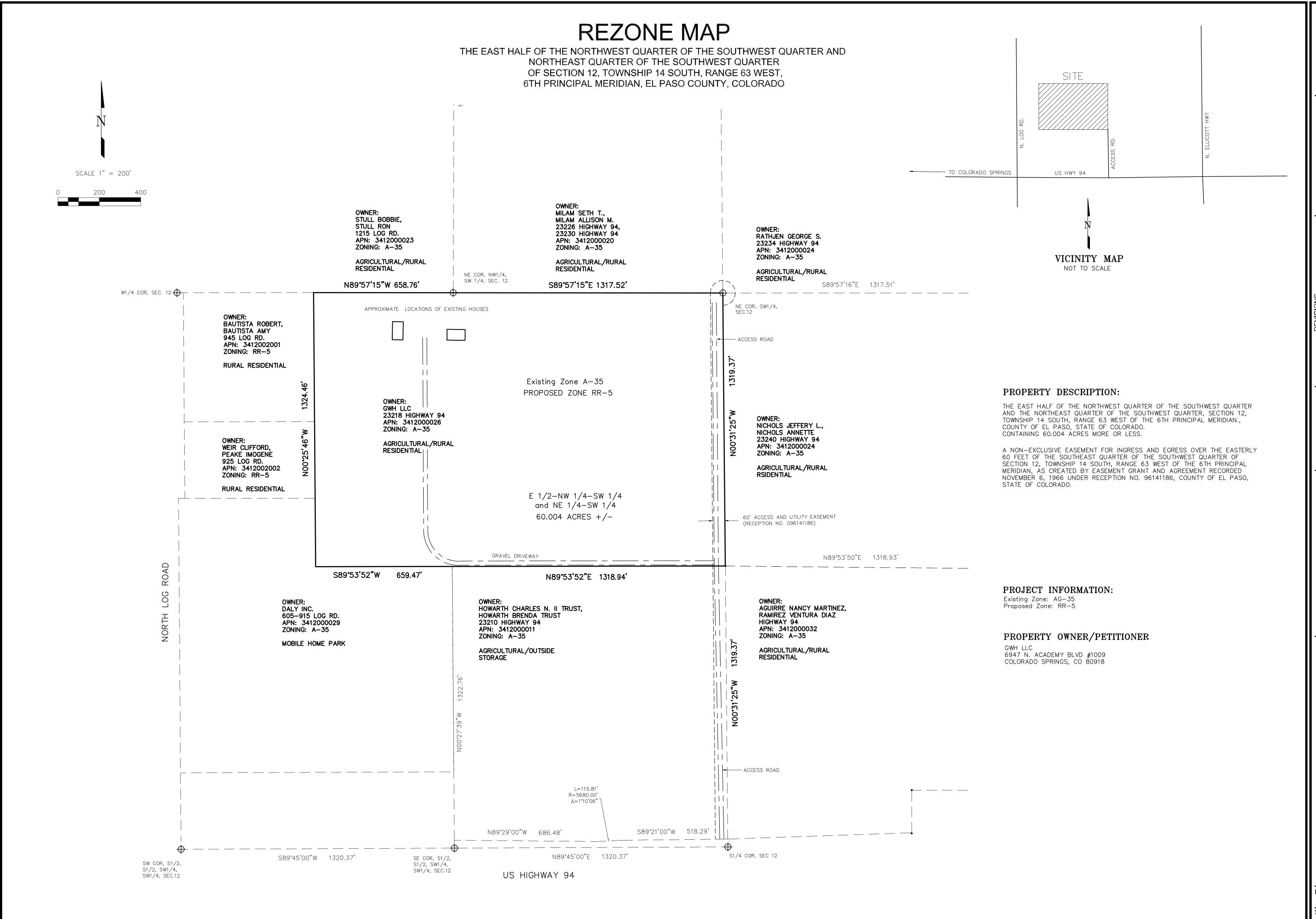
Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		्र	ર્ભ		۰¥	
Traffic Vol, veh/h	3	214	340	1	2	7
Future Vol, veh/h	3	214	340	1	2	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	255	405	1	2	8

Major/Minor	Major1	Ν	/lajor2	]	Vinor2	
Conflicting Flow All	406	0	-	0	669	406
Stage 1	-	-	-	-	406	-
Stage 2	-	-	-	-	263	-
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	
Pot Cap-1 Maneuver	1153	-	-	-	423	645
Stage 1	-	-	-	-	0.0	-
Stage 2	-	-	-	-	781	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1153	-	-	-	421	645
Mov Cap-2 Maneuver	-	-	-	-	421	-
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	781	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		11.4	
HCM LOS					В	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1153	-	-	-	577
HCM Lane V/C Ratio		0.003	-		-	0.019
HCM Control Delay (s)	)	8.1	0	-	-	
HCM Lane LOS		A	A	-	-	В
HCM 95th %tile Q(veh	ນ	0	-	-	-	0.1

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- सी	ર્ન 🐪		۰¥	
Traffic Vol, veh/h	5	324	233	2	2	7
Future Vol, veh/h	5	324	233	2	2	7
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	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	368	265	2	2	8

Major/Minor	Major1	Ν	1ajor2		Vinor2	
Conflicting Flow All	267	0	-	0	646	266
Stage 1	-	-	-	-	266	-
Stage 2	-	-	-	-	380	-
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	
Pot Cap-1 Maneuver	1297	-	-	-	436	773
Stage 1	-	-	-	-	779	-
Stage 2	-	-	-	-	691	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	433	773
Mov Cap-2 Maneuver	· -	-	-	-	433	-
Stage 1	-	-	-	-	774	-
Stage 2	-	-	-	-	691	-
Approach	EB		WB		SB	
HCM Control Delay, s	s 0.1		0		10.6	
HCM LOS					В	
Minor Lane/Major Mvi	mt	EBL	EBT	WBT	WBR 3	SBLn1
Capacity (veh/h)		1297	-	-	-	658
HCM Lane V/C Ratio		0.004	-	-	-	0.016
HCM Control Delay (s	5)	7.8	0	-	-	10.6
HCM Lane LOS		A	A	-	-	В
HCM 95th %tile Q(vel	h)	0	-	-	-	0

Conceptual Site Plan



			83	H
Call Before You DIG 0 1 1			48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS	FOR LOCATING AND MARKING GAS, ELECTRIC, WATER AND WASTEWATER
By Date				
REVISIONS Description				
No.				
H Scale: XX V Scale: XX	37:		Checked By: ULK	1/10/2022
Land	Consultants, Inc.	PLANNING · SURVEYING	www.ldc-inc.com * TEL: (719) 528-6133 * FAX: (719) 528-6848	3898 MAIZELAND ROAD · COLORADO SPRINGS, CO 80909
REZONE MAP	THE EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER AND NORTHEAST QUARTER OF	THE SOUTHWEST QUARTER OF SECTION 12,	TOWNSHIP 14 SOUTH, RANGE 63 WEST,	OF THE 6th P.M., EL PASO COUNTY, COLORADO
Project I Sheet:	No.:	2	220	30
Sneet:	1 of	1		