## Kimley»)Horn

## Peerless Farms <br> Traffic Memorandum

El Paso County, Colorado

## 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.


Jeffrey R. Planck, P.E., PE \#53006
January 9, 2024
Date

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

Robert S. Williams

## Date

16975 Falcon Highway
Peyton, Colorado 80831-7906

# Kimley»)Horn 

January 9, 2024
Robert S. Williams
16975 Falcon Highway
Peyton, Colorado 80831-7906
Re: Peerless Farms - Traffic Study Memorandum
16975 Falcon Highway
El Paso County, Colorado
Dear Mr. Williams:
This Traffic Study Memorandum has been prepared for the proposed Peerless Farms development located at 16975 Falcon Highway in El Paso County, Colorado. A vicinity map illustrating the location of the property is attached as Figure 1. The site currently consists of one single family home and is expected to increase to a total of seven single family homes. The site currently has two accesses along the south side of Falcon Highway. With buildout of the Peerless Farms site, these two existing accesses will be closed and access for the project will be provided along the south side of Falcon Highway aligning with Sagecreek Road. This study also follows El Paso County guidelines to serve as a Traffic Memorandum based on the daily trip generation being less than 500 trips per day and the Sagecreek Road extension being a proposed roadway intersection to a minor arterial. A conceptual site plan of the property is attached.

## EXISTING ROADWAY NETWORK

Falcon Highway is classified as a minor arterial in the El Paso County 2016 Major Transportation Corridors Plan Update and extends eastbound and westbound with one through lane of travel in each direction with a posted speed limit of 55 miles per hour. Sagecreek Road extends northbound and southbound as an unpaved road with the width provided for one through lane in each direction. Of note, no roadway improvements are identified in the El Paso County Major Transportation Corridors Plan in the site vicinity.

The unsignalized 'T'-intersection of Falcon Highway and Sagecreek Road operates with stop-control on the southbound Sagecreek Road approach. The eastbound Falcon Highway approach consists of a shared left turn/through lane while the westbound approach provides a shared through/right turn lane. The southbound Sagecreek Road approach consists of a shared left/right turn lane. It is believed that the existing roadway signage and striping is appropriate for this intersection. An aerial photo that illustrates the existing intersection configuration is below (north is up).

## Kimley»)Horn



Falcon Highway \& Sagecreek Road
The intersection lane configuration and control for this study area intersection is shown in attached Figure 2.

## EXISTING AND FUTURE TRAFFIC VOLUMES

Existing vehicle turning movement counts were conducted at the Falcon Highway and Sagecreek Road intersection on Thursday, November 16, 2023 during the morning and afternoon peak hours. 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 3 with count sheets attached.

According to traffic projections provided in the El Paso County (EPC) 2016 Major Transportation Corridors Plan Update (MTCP), the surrounding street system is expected to have an annual traffic growth rate of approximately 3.48 percent. Therefore, an annual growth rate of 3.48 percent was used to calculate short-term 2026 and long-term 2045 background traffic projections. Traffic projection information and calculations are attached.

The 2026 and 2045 background traffic volumes are also shown in Figure 4 and Figure 5, respectively.

## MULTIMODAL FACILITY REVIEW

There are not any pedestrian or bicycle facilities along Falcon Highway or within the study area. This project is not anticipated to create the need for these alternate travel mode facilities. 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.

## 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' 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 - Peerless Farms Expansion Traffic Generation

| Use | Weekday Vehicles Trips |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | AM Peak Hour |  |  | PM Peak Hour |  |  |
|  |  | In | Out | Total | In | Out | Total |
| Single Family Detached Housing (ITE 210) 7 Dwelling Units | 68 | 1 | 4 | 5 | 4 | 3 | 7 |

As shown in the table and based on ITE Trip Generation calculations, Peerless Farms is expected to generate approximately 68 weekday daily trips, with five (5) of these trips occurring during the morning peak hour and seven (7) 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 6 illustrates the trip distribution, whereas Figure 7 shows the traffic assignment for this project.

[^0]
## Kimley»Horn

TOTAL (BACKGROUND PLUS PROJECT) TRAFFIC
Site traffic volumes were added to the background volumes to represent estimated total traffic conditions for the 2026 and 2045 horizons. These total traffic volumes for the study area are illustrated for the 2026 and 2045 horizon years in Figures 8 and 9, respectively.

## TRAFFIC OPERATIONS ANALYSIS

Kimley-Horn's analysis of traffic operations was conducted to determine potential capacity deficiencies at the Falcon Highway and Sagecreek Road intersection for the buildout 2026 year and long-term planning 2045 year. The acknowledged source for determining overall capacity is the Highway Capacity Manuaĺ. 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.

Table 2 - Level of Service Definitions

| Level of <br> Service | Unsignalized Intersection <br> Average Total Delay <br> (sec/veh) |
| :---: | :---: |
| A | $\leq 10$ |
| B | $>10$ and $\leq 15$ |
| C | $>15$ and $\leq 25$ |
| D | $>25$ and $\leq 35$ |
| E | $>35$ and $\leq 50$ |
| F | $>50$ |

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

[^1]
## Kimley»Horn

## Falcon Highway and Sagecreek Road

The unsignalized ' $T$ '-intersection of Falcon Highway and Sagecreek Road operates with stop-control on the southbound Sagecreek Road approach. With project construction, a south leg is proposed at this intersection to provide access to the Peerless Farms development. When this access is constructed, it is recommended to consist of one shared lane for all movements and a R1-1 "STOP" sign be installed on the northbound approach of the access intersection. This access and all roadways internal to the project site will be classified as local roadways. Table 3 provides the results of the level of service at this intersection (calculations attached).

Table 3 - Falcon Highway Peerless Farms Access LOS Results

| Scenario | AM Peak Hour |  | PM Peak Hour |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Delay (sec/veh) | LOS | Delay (sec/veh) | LOS |
| 2023 Existing |  |  |  |  |
| Eastbound Left | 7.7 | A | 7.4 | A |
| Southbound Approach | 9.5 | A | 9.9 | A |
| 2026 Background |  |  |  |  |
| Eastbound Left | 7.8 | A | 7.4 | A |
| Southbound Approach | 9.7 | A | 10.0 | B |
| 2026 Total \# |  |  |  |  |
| Northbound Approach | 10.3 | B | 10.7 | B |
| Eastbound Left | 7.8 | A | 7.4 | A |
| Westbound Left | 7.4 | A | 7.7 | A |
| Southbound Approach | 9.7 | A | 10.3 | B |
| 2045 Background |  |  |  |  |
| Eastbound Left | 8.4 | A | 7.6 | A |
| Southbound Approach | 11.5 | B | 12.4 | B |
| 2045 Total \# |  |  |  |  |
| Northbound Approach | 13.2 | B | 14.2 | B |
| Eastbound Left | 8.4 | A | 7.6 | A |
| Westbound Left | 7.5 | A | 8.3 | A |
| Southbound Approach | 11.6 | B | 13.3 | B |

\# = Stop Controlled Northbound Approach
As shown in the table above, the intersection movements currently operate acceptably with LOS A during the peak hours. With the addition of the proposed Peerless Farms development, all movements at this intersection are anticipated to continue to operate acceptably with LOS B or better during the studied peak hours throughout the 2045 horizon.

# Kimley»)Horn 

## TURN LANE EVALAUTION

The El Paso County Engineering Criteria Manual (ECM) was used to determine if left and right turn lanes are warranted along Falcon Highway at the Peerless Farms access. El Paso County classifies Falcon Highway as a Minor Arterial roadway. According to El Paso County ECM guidelines for Minor Arterials, a left turn lane is required for any access with a projected peak hour left turning volume of 25 vehicles per hour or greater, a right turn lane is required for any access with a projected peak hour right turning volume of 50 vehicles per hour or greater, and a right turn acceleration lane is generally not required.

Based on Falcon Highway providing a posted speed limit of 55 miles per hour, the turn lane requirements are as follows:

## Falcon Highway and Sagecreek Road:

- A westbound left turn lane is not warranted at this intersection based on projected 2045 total traffic volumes being one (1) westbound left turns during the peak hour and the threshold being 25 vehicles per hour.
- An eastbound right turn lane is not warranted at this intersection based on projected 2045 total traffic volumes being three (3) eastbound right turns during the peak hour and the threshold being 50 vehicles per hour.


## SIGHT DISTANCE EVALUATION

A full movement project access is proposed along the south side of Falcon Highway that will align with Sagecreek Road. The project access will be located approximately 750 feet west of Peerless Farms Road (measured centerline to centerline).

It is recommended that sight triangles be provided at the site access point of Sagecreek Road and Falcon Highway to give drivers entering and exiting the site a clear view of oncoming traffic. Landscaping and objects within sight triangles must not obstruct drivers' views of the adjacent travel lanes. El Paso County Engineering Criteria Manual (ECM) design intersection sight distances for exiting left and right turn from stop, as well as entering left turn were evaluated at the south leg access at Sagecreek Road and Falcon Highway. The following identifies sight distance requirements for the access intersection associated with the project.

According to Table 2-21 from ECM and a roadway design speed of 55 miles per hour ( mph ) along Falcon Highway, the intersection sight distance for a vehicle turning left and right from stop is 610 feet. It should be noted that this distance was extrapolated as the highest speed recorded in ECM Table 2-21 is 50 mph (sight distance of 555 feet) and every five (5) mph increases the sight distance by 55 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 13 feet from the edge of the major road traveled way (typical position of the minor road driver's eye when stopped) and a line-of-sight distance of 610 feet located in the middle of the westbound through lane along Falcon Highway. Likewise, all obstructions for right turning vehicles from stop should be clear to the left within the triangle created with a vertex point located 13 feet from the edge of the major road traveled way and a line-of-sight distance of 610 feet located in the middle of the eastbound through lane along Falcon Highway.

## Kimley»)Horn

According to Table 2-35 from ECM and a posted speed of 55 miles per hour along the Falcon Highway, the intersection sight distance for a left turning vehicle entering the south leg of the Falcon Highway and Sagecreek Road is 550 feet for a passenger car. Therefore, all obstructions for left turning vehicles should be clear from the opposing lanes with this distance.

It is believed that appropriate sight distances are currently provided at the existing intersection of Falcon Highway and Sagecreek Road. It should be taken under consideration to field verify that these distances are currently be achieved at this intersection.

## CONCLUSIONS

It is believed that the Peerless Farms project will be accommodated successfully on the surrounding street network. The following outlines the conclusions from the traffic analysis with the recommended geometry and control shown in Figure 10:

- With project construction, a south leg is proposed at the Falcon Highway and Sagecreek Road intersection to provide access to the Peerless Farms development. When this access is constructed, it is recommended to consist of one shared lane for all movements and a R1-1 "STOP" sign be installed on the northbound approach of the access intersection.

Please let us know if El Paso County would like any additional information. If you have any questions, please feel free to call me at (720) 943-9962.

Sincerely,
KIMLEY-HORN AND ASSOCIATES, INC.


Jeffrey R. Planck, P.E. Project Traffic Engineer


Figures

Kimley》Horm
NTS 196144000


FIGURE 1
PEERLESS FARMS
EL PASO COUNTY, COLORADO
VICINITY MAP
Kimley"Horn

## Kimley: 1 Horn <br> N $\underset{\text { NTS } 19614000}{\boldsymbol{R} \boldsymbol{T}}$



FIGURE 2
PEERLESS FARMS
EL PASO COUNTY, COLORADO

## Kimley; ${ }^{2}$ Horn <br> $\underset{\text { NT } 19614000}{\boldsymbol{R} \boldsymbol{T}}$



Thursday, November 16, 2023 7:00 to 8:00AM (4:30 to 5:30PM)

FIGURE 3
PEERLESS FARMS
EL PASO COUNTY, COLORADO
2023 EXISTING TRAFFIC VOLUMES

## LEGEND

## Kimley;) Horn <br> $\underset{\text { NT } 19614000}{\boldsymbol{R} \boldsymbol{T}}$



FIGURE 4
PEERLESS FARMS
EL PASO COUNTY, COLORADO

## Kimleyw Horn <br> $\underset{\text { NT } 19614000}{\boldsymbol{R} \boldsymbol{T}}$




FIGURE 5
PEERLESS FARMS
EL PASO COUNTY, COLORADO

## Kimley $川$ Horn <br> $\boldsymbol{N} \underset{\text { NTS }}{196114000} \boldsymbol{P}$



FIGURE 6
External Trip Distribution Percentage
PEERLESS

## Kimley $川$ Horn



FIGURE 7
PEERLESS FARMS
EL PASO COUNTY, COLORADO

## LEGEND

XXX( XXX) Weekday AM(PM)
Peak Hour Traffic Volumes

## Nome y hor



FIGURE 8
PEERLESS
FARMS
EL PASO COUNTY, COLORADO 2026 TOTAL TRAFFIC VOLUMES

## LEGEND

XXX(XXX) Weekday AM(PM)
Peak Hour Traffic Volumes
XX,X00 Estimated Daily Traffic Volume

## Nome y hor



FIGURE 9
PEERLESS FARMS
EL PASO COUNTY, COLORADO 2045 TOTAL TRAFFIC VOLUMES

## LEGEND

## Kimley $川$ Horn <br> $N \underbrace{\boldsymbol{R} \boldsymbol{T}}_{\text {NTS } 196114000}$



## Intersection Count Sheets



Two-Hour Count Summaries

| Interval Start |  | Falcon Hwy |  |  |  | Falcon Hwy |  |  |  | n/a |  |  |  | Sagecreek Rd |  |  |  | 15-min Total | Rolling One Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |  |  |
|  |  | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT |  |  |
| 7:00 | AM | 0 | 1 | 9 | 0 | 0 | 0 | 59 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 75 | 0 |
| 7:15 | AM | 0 | 0 | 11 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 63 | 0 |
| 7:30 | AM | 0 | 1 | 13 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 72 | 0 |
| 7:45 | AM | 0 | 1 | 22 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 56 | 266 |
| 8:00 | AM | 0 | 2 | 12 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 66 | 257 |
| 8:15 | AM | 0 | 0 | 14 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 46 | 240 |
| 8:30 | AM | 0 | 0 | 12 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 52 | 220 |
| 8:45 | AM | 0 | 2 | 15 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 51 | 215 |
| Count | Total | 0 | 7 | 108 | 0 | 0 | 0 | 345 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 18 | 481 | 0 |
|  | All | 0 | 3 | 55 | 0 | 0 | 0 | 195 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 11 | 266 | 0 |
| Peak <br> Hour | HV | 0 | 0 | 3 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
|  | HV\% | - | 0\% | 5\% | - | - | - | 4\% | 0\% | - | - | - | - | - | 0\% | - | 0\% | 4\% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |  |  |  |  | Bicycles |  |  |  |  | Pedestrians (Crossing Leg) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total |
| 7:00 AM | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Count Total | 6 | 14 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peak Hr | 3 | 8 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## www.idaxdata.com

Two-Hour Count Summaries - Heavy Vehicles

| Interval Start | Falcon Hwy |  |  |  | Falcon Hwy |  |  |  | n/a |  |  |  | Sagecreek Rd |  |  |  | $\begin{gathered} \text { 15-min } \\ \text { Total } \end{gathered}$ | Rolling One Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |  |  |
|  | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT |  |  |
| 7:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 7:15 AM | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 7:45 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 |
| 8:30 AM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 |
| 8:45 AM | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 |
| Count Total | 0 | 0 | 6 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 |
| Peak Hour | 0 | 0 | 3 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |

Two-Hour Count Summaries - Bikes

| Interval Start | Falcon Hwy |  |  | Falcon Hwy |  |  | n/a |  |  | Sagecreek Rd |  |  | $\begin{aligned} & \text { 15-min } \\ & \text { Total } \end{aligned}$ | Rolling One Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Eastbound |  |  | Westbound |  |  | Northbound |  |  | Southbound |  |  |  |  |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |  |  |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Count Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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


Two-Hour Count Summaries

| Interval Start |  | Falcon Hwy |  |  |  | Falcon Hwy |  |  |  | n/a |  |  |  | Sagecreek Rd |  |  |  | 15-min Total | Rolling One Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |  |  |
|  |  | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT |  |  |
| 4:00 | PM | 0 | 4 | 35 | 0 | 0 | 0 | 22 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 63 | 0 |
| 4:15 | PM | 0 | 3 | 43 | 0 | 0 | 0 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 58 | 0 |
| 4:30 | PM | 0 | 2 | 48 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 0 |
| 4:45 | PM | 0 | 6 | 47 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 67 | 266 |
| 5:00 | PM | 0 | 2 | 50 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 275 |
| 5:15 | PM | 0 | 1 | 52 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 71 | 288 |
| 5:30 | PM | 0 | 1 | 35 | 0 | 0 | 0 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 268 |
| 5:45 | PM | 0 | 3 | 53 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 275 |
| Count | Total | 0 | 22 | 363 | 0 | 0 | 0 | 148 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 541 | 0 |
|  | All | 0 | 11 | 197 | 0 | 0 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 288 | 0 |
| Peak | HV | 0 | 1 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
|  | HV\% | - | 9\% | 3\% | - | - | - | 4\% | - | - | - | - | - | - | 0\% | - | 0\% | 3\% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |  |  |  |  | Bicycles |  |  |  |  | Pedestrians (Crossing Leg) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total |
| 4:00 PM | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 3 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Count Total | 14 | 7 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peak Hr | 7 | 3 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## www.idaxdata.com

Two-Hour Count Summaries - Heavy Vehicles

| Interval Start | Falcon Hwy |  |  |  | Falcon Hwy |  |  |  | n/a |  |  |  | Sagecreek Rd |  |  |  | $\begin{gathered} 15-\mathrm{min} \\ \text { Total } \end{gathered}$ | Rolling One Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |  |  |
|  | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT |  |  |
| 4:00 PM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 4:15 PM | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 4:30 PM | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 4:45 PM | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 13 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 5:15 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 |
| 5:30 PM | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 |
| 5:45 PM | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 |
| Count Total | 0 | 1 | 13 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 |
| Peak Hour | 0 | 1 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |

Two-Hour Count Summaries - Bikes

| Interval Start | Falcon Hwy |  |  | Falcon Hwy |  |  | n/a |  |  | Sagecreek Rd |  |  | $\begin{aligned} & \text { 15-min } \\ & \text { Total } \end{aligned}$ | Rolling One Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Eastbound |  |  | Westbound |  |  | Northbound |  |  | Southbound |  |  |  |  |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |  |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Count Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

## Traffic Projections

## EPC MTCP Traffic Projections: Peerless Farms

| Location | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 4 0}$ | Growth <br> Factor | Annual <br> Growth |
| :--- | ---: | ---: | ---: | :---: |
| Falcon Hwy W/O Curtis Rd | 4,800 | 12,100 | 2.52 | $3.48 \%$ |

## Trip Generation Worksheets

## Kimley»)Horn

Project $\qquad$
Subject Trip Generation for Single-Family Detached Housing


## 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)
$X=7$
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: $25 \%$ ent. $75 \%$ exit.
$(T)=0.70(X)$
$\mathrm{T}=5 \quad$ Average Vehicle Trip Ends
1 entering 4 exiting
$1+4=5$

## Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m. (200 Series Page 221)

Average Weekday
$(T)=0.94(X)$
$(\mathrm{T})=0.94$ *
Directional Distribution: 63\% ent. 37\% exit.
$\mathrm{T}=7 \quad$ Average Vehicle Trip Ends 4 entering 3 exiting
$4+3=7$

## Weekday (200 Series Page 219)

Average Weekday
Directional Distribution: 50\% entering, 50\% exiting
$(T)=9.43(X)$
$(\mathrm{T})=9.43$ *
(7.0)
T = $68 \quad$ Average Vehicle Trip Ends 34 entering 34 exiting $34+34=68$

## Intersection Capacity Analysis Outputs

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.5 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\uparrow$ |  | Tr |  |
| Traffic Vol, veh/h | 3 | 55 | 195 | 1 | 1 | 11 |
| Future Vol, veh/h | 3 | 55 | 195 | 1 | 1 | 11 |
| 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 | 89 | 89 | 89 | 89 | 89 | 89 |
| Heavy Vehicles, \% | 5 | 5 | 4 | 4 | 2 | 2 |
| Mvmt Flow | 3 | 62 | 219 | 1 | 1 | 12 |


| Major/Minor M | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 220 | 0 | 0 | 0 | 288 | 220 |
| Stage 1 | - | - | - - | - | 220 | - |
| Stage 2 | - | - | - - | - | 68 | - |
| Critical Hdwy | 4.15 | - | - - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.42 | - |
| Follow-up Hdwy | 2.245 | - | - - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1332 | - | - - | - | 702 | 820 |
| Stage 1 | - | - | - - | - | 817 | - |
| Stage 2 | - | - | - - | - | 955 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1332 | - | - - | - | 701 | 820 |
| Mov Cap-2 Maneuver | - | - | - - | - | 701 | - |
| Stage 1 | - | - | - - | - | 815 | - |
| Stage 2 | - | - | - - | - | 955 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.4 |  | 0 |  | 9.5 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1332 | 2 | - | - | 809 |
| HCM Lane V/C Ratio |  | 0.003 | - | - | - | 0.017 |
| HCM Control Delay (s) |  | 7.7 | 0 | - | - | 9.5 |
| HCM Lane LOS |  | A | A | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 | O | - | - | 0.1 |



| Major/Minor M | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 84 | 0 | - | 0 | 322 | 84 |
| Stage 1 | - | - | - - | - | 84 | - |
| Stage 2 | - | - | - - | - | 238 | - |
| Critical Hdwy | 4.13 | - | - - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.42 | - |
| Follow-up Hdwy | 2.227 | - | - - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1506 | - | - - | - | 672 | 975 |
| Stage 1 | - | - | - - | - | 939 | - |
| Stage 2 | - | - | - - | - | 802 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1506 | - | - - | - | 666 | 975 |
| Mov Cap-2 Maneuver | - | - | - - | - | 666 | - |
| Stage 1 | - | - | - - | - | 931 | - |
| Stage 2 | - | - | - - | - | 802 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | S 0.4 |  | 0 |  | 9.9 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1506 |  | - | - | 745 |
| HCM Lane V/C Ratio |  | 0.008 | - | - | - | 0.004 |
| HCM Control Delay (s) |  | 7.4 | 0 | - | - | 9.9 |
| HCM Lane LOS |  | A | A | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 |  | - | - | 0 |


|  |  | Intersection |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh 0 | 0.5 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\uparrow$ | 个 |  | * |  |
| Traffic Vol, veh/h | 3 | 61 | 216 | 1 | 1 | 12 |
| Future Vol, veh/h | 3 | 61 | 216 | 1 | 1 | 12 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control F | 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 | 89 | 89 | 89 | 89 | 89 | 89 |
| Heavy Vehicles, \% | 5 | 5 | 4 | 4 | 2 | 2 |
| Mvmt Flow | 3 | 69 | 243 | 1 | 1 | 13 |


| Major/Minor M | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 244 | 0 | 0 | 0 | 319 | 244 |
| Stage 1 | - | - | - - | - | 244 | - |
| Stage 2 | - | - | - - | - | 75 | - |
| Critical Hdwy | 4.15 | - | - - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.42 | - |
| Follow-up Hdwy | 2.245 | - | - - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1305 | - | - - | - | 674 | 795 |
| Stage 1 | - | - | - - | - | 797 | - |
| Stage 2 | - | - | - - | - | 948 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1305 | - | - - | - | 673 | 795 |
| Mov Cap-2 Maneuver | - | - | - - | - | 673 | - |
| Stage 1 | - | - | - - | - | 795 | - |
| Stage 2 | - | - | - - | - | 948 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.4 |  | 0 |  | 9.7 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1305 |  | - | - | 784 |
| HCM Lane V/C Ratio |  | 0.003 | - | - | - | 0.019 |
| HCM Control Delay (s) |  | 7.8 | 0 | - | - | 9.7 |
| HCM Lane LOS |  | A | A | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 | O | - | - | 0.1 |



| Major/Minor M | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 92 | 0 |  | 0 | 355 | 92 |
| Stage 1 | - | - | - - | - | 92 | - |
| Stage 2 | - | - | - - | - | 263 | - |
| Critical Hdwy | 4.13 | - | - - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.42 | - |
| Follow-up Hdwy | 2.227 | - | - - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1496 | - | - - | - | 643 | 965 |
| Stage 1 | - | - | - - | - | 932 | - |
| Stage 2 | - | - | - - | - | 781 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1496 | - | - - | - | 637 | 965 |
| Mov Cap-2 Maneuver | - | - | - - | - | 637 | - |
| Stage 1 | - | - | - - | - | 923 | - |
| Stage 2 | - | - | - - | - | 781 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.4 |  | 0 |  | 10 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1496 |  | - | - | 718 |
| HCM Lane V/C Ratio |  | 0.009 | - | - | - | 0.005 |
| HCM Control Delay (s) |  | 7.4 | - | - | - | 10 |
| HCM Lane LOS |  | A | A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0 | A | - | - | 0 |





| Major/Minor | Major1 | Major2 |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 92 | 0 | 0 | 240 | 0 | 0 | 360 | 359 | 239 | 359 | 360 |
| $\quad$ Stage 1 | - | - | - | - | - | - | 265 | 265 | - | 94 | 94 |
| $\quad$ Stage 2 | - | - | - | - | - | - | 95 | 94 | - | 265 | 266 |


|  | Intersection |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh 0 | 0.6 |  |  |  |  |  |
| Movement E | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\uparrow$ | 个 |  | * |  |
| Traffic Vol, veh/h | 6 | 117 | 414 | 2 | 2 | 23 |
| Future Vol, veh/h | 6 | 117 | 414 | 2 | 2 | 23 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control F | 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 | 89 | 89 | 89 | 89 | 89 | 89 |
| Heavy Vehicles, \% | 5 | 5 | 4 | 4 | 2 | 2 |
| Mvmt Flow | 7 | 131 | 465 | 2 | 2 | 26 |



HCM LOS B

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1079 | - | - | -582 |
| HCM Lane V/C Ratio | 0.006 | - | - | -0.048 |
| HCM Control Delay (s) | 8.4 | 0 | - | -11.5 |
| HCM Lane LOS | A | A | - | - |
| HCM 95th \%ttile Q(veh) | 0 | - | - | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.4 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | F |  | Mr |  |
| Traffic Vol, veh/h | 23 | 418 | 163 | 0 | 4 | 2 |
| Future Vol, veh/h | 23 | 418 | 163 | 0 | 4 | 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 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 3 | 3 | 4 | 4 | 2 | 2 |
| Mvmt Flow | 25 | 454 | 177 | 0 | 4 | 2 |







## Conceptual Site Plan

## PEERLESS FARMS

SITUATED IN THE NORTHWEST QUARTER OF SECTION 13, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE GTH P. N CITY OF COLORADO SPRINGS COUNTY OF EI PASO STATE OF COLORADO

M
M
**\:
**\:


Kimley») Horn



[^0]:    ${ }^{1}$ Institute of Transportation Engineers, Trip Generation Manual, Eleventh Edition, Washington DC, 2021.

[^1]:    ${ }^{2}$ Transportation Research Board, Highway Capacity Manual, Sixth Edition, Washington DC, 2016.

