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Ellicott Sand and Gravel **Traffic Impact Analysis** PCD File No. AL2014 (LSC #194980) October 12, 2021

## 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.

Christene Wilson

10/14/2021



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Date



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October 12, 2021

Christine Wilson
Ellicott Sand & Gravel
c/o Mr. Bruce Humphries
<via email>

RE: Ellicott Sand and Gravel El Paso County, CO Traffic Impact Analysis LSC #194980 PCD File No. AL2014

Dear Ms. Wilson,

LSC Transportation Consultants, Inc. has prepared this traffic impact study for the proposed Schubert Ranch/Ellicott Sand & Gravel extraction operation in El Paso County, Colorado. The site is located west of Baggett Road and north (and south) of Sanborn Road. One access is proposed to Sanborn Road about one quarter-mile west of Baggett Road (access GPS location: 38°47'43.5875" N, 104°21'17.6006" W).

The proposed haul route would have trucks utilize State Highway (SH) 94 to/from the west, Baggett Road between SH 94 and Sanborn Road, and the segment of Sanborn Road east of the access. Initially and in the short term, an average of about 30 truck trips per day is anticipated to be generated during the peak summer season. This level may increase in the future and this report provides an estimate of the potential future (higher) trip generation.

This report has been prepared for submittal to the El Paso County Planning and Community Development department and CDOT.

#### **REPORT CONTENTS**

The report contains the following:

• Existing street and traffic conditions adjacent to and in the vicinity of the site, including the intersection lane geometries, traffic controls, posted speed limits, functional classifications, intersection spacing and alignment, sight distances, etc.

- Existing peak-hour turning-movement traffic counts at the intersections of SH 94/Baggett Road and Baggett Road/Sanborn Road; the results of 2021 daily traffic counts.
- Estimates of projected 20-year daily background traffic volumes on the study-area roadways using EPC and CDOT data/available projections.
- Estimates of the proposed mineral extraction operation's peak-hour and daily trip generation for the short and intermediate & long term, including trips by vehicle type.
- Estimated directional distribution of mine-generated trips on roadways to be used for hauling. An employee distribution is also provided.
- Estimated assignment of peak-hour and daily site-generated traffic volumes on the study-area roadways providing access to/from the site, including the following intersections:
  - State Highway 94/Baggett Road
  - Baggett Road/Sanborn Road
  - Sanborn Road/proposed site access
- Resulting traffic impacts of the proposed sand and gravel operation on the roadways along the haul route, relative to the El Paso County's Engineering Criteria Manual (ECM) "design ADTs."
- Intersection levels of service analysis at key intersections along the proposed haul route:
  - State Highway 94/Baggett Road
  - o Baggett Road/Sanborn Road
  - Sanborn Road/proposed site access
- Auxiliary right-/left-turn lane analysis at the following intersections based on the projected volumes and criteria in the *ECM* and the *State Highway Access Code*:
  - State Highway 94/Baggett Road
  - o Baggett Road/Sanborn Road
  - Sanborn Road/proposed site access
- Findings and recommendations

#### SAND & GRAVEL PIT SITE LOCATION & ACCESS

As shown in Figure 1 and Figure 2, the proposed Schubert Ranch/Ellicott Sand & Gravel extraction operation in El Paso County, Colorado is located west of Baggett Road and north (and south) of Sanborn Road. The 783-acre site is within the larger parcel identified by El Paso County parcel ID No. 2400000276 and the 40-acre smaller parcel (parcel ID no. 2400000275).

The proposed access would be located one-quarter mile west of the intersection of Baggett Road/Sanborn Road (access GPS location: 38°47'43.5875" N, 104°21'17.6006" W). This access is for Stage I of the operation. The applicant will request different access points in the future as the active mining areas change in the future (subsequent "Stages"). Access for future stages are shown in the **attached access exhibit** from the letter of intent. The applicant would be required to obtain a new driveway permit from El Paso County for any future access. Future access for future stages may require a transportation memorandum.

#### COMPARISON TO THE PUEBLO COUNTY MINE (CURRENTLY OPERATING)

LSC has utilized a comparable land use (an existing, operating similar mining land use) with data and known operating characteristics for trip-generation estimating purposes. This similar land use is the Pueblo County mine.

The estimated annual production for the Schubert Sand Mine and the typical production at the Pueblo County mine (250,000 tons per year) are similar. Both the proposed mine and the Pueblo County mine extract sand.

The total mining areas are not similar, nor are the mining methods, since the deposits are not similar. Approximately 35 acres of the 1,440 acres available for mining have been affected during the Pueblo County mine's 37 years of operation. None of the proposed Schubert Sand Mine approved permit area's 733.7 acres has been disturbed at this time.

Under a 112 Regular Operation Construction Material Permit, an operator is not limited to an annual production. The only limit is the amount of surface disturbance allowed, based on the amount of reclamation bond posted and the affected area approved for mining.

As an additional point, construction-materials production is seasonal, based on weather, and demand for the product mined. Typically, the construction season is variable by year and geographical location. For example, the Pueblo area has a slightly longer construction season than the Colorado Springs area. Therefore, the Colorado Springs demand for construction materials may result in a lower production.

#### PROPOSED DAILY OPERATIONS

## Initial/Short Term (2022/2023)

Hours of operation for the mine will be from 7:00 a.m. – 7:00 p.m. **or sunrise-to-sunset**, depending on time of year. Empty haul vehicles would begin arriving around 7:00 a.m. each weekday and depart shortly after being loaded. Drivers would transport raw materials to the west via SH 94. Initially and in the short-term future, the pit would be operated in a manner similar to the mine in Pueblo County. The applicant has provided truck trip-generation data recorded for July and August 2020. The complete data set is attached for reference in Appendix A.

Based on the Pueblo County pit data, an average of 15 empty trucks would arrive at the site for loading each day and up to 15 loaded trucks will leave the mine each day.

Table 1 below summarizes the initial and short-term average entering truck trips by hour of the day, based on the Pueblo County pit data. The initial and short-term truck-trip counts at the

proposed Ellicott site are anticipated to be comparable to the Pueblo County mine site, although shifted to begin at 7:00 a.m. for this El Paso County pit.

Table 1: Initial/Short-Term Entering Trucks by Hour of the Day

Hou	rly Period	Short Term Trucks to Enter the Site				
Start Time	End Time	Entering Trucks (Average)				
7:00	8:00	2				
8:00	9:00	2				
9:00	10:00	2				
10:00	11:00	1				
11:00	12:00	2				
12:00	13:00	1				
13:00	14:00	2				
14:00	15:00	1				
15:00	16:00	1				
16:00	17:00	1				
17:00	18:00	0				
18:00	19:00	0				
Total Dai	ly Entering Trucks	15				

No trucks (empty or loaded) would be parked on-site overnight. Thus, haul vehicles would originate from offsite location(s) each morning and return to offsite location(s) each afternoon.

Per the applicant, six employees (including two loaders, two operators, one crusher, and another staff member) would remain on-site throughout the day. These employees would drive to the proposed mine each morning using their personal vehicles and leave during the late afternoon using their personal vehicles. Employee personal vehicles are anticipated to arrive slightly before heavy vehicles would arrive to begin preparing for the day's workload.

#### Potential Intermediate & Long Term – About 4 to 5 Years After Startup

#### **Projected Timeline**

Typically, it takes several months to years for a mining operation to reach full production. It is estimated that it will take this site six months to start mining and up to two years to reach the target annual production estimates. Acquiring the necessary air permits often takes up to six months as well. Therefore, a total of 1.3 "mini phases" will be mined during the first 12-month period.

Phase 1 (Phase 1 mining area, not trip levels) is projected to last 10-15 years, according to page 9, Exhibit D of the approved mining plan. Within a phase will be mini phases of 1.15 acres, each of which are expected to provide 96,220 tons of material during a 4-5-month time period. Development of the remaining future phases will only occur as mining in the previous phase is completed. For instance, mining in Phase 2 will not begin until essentially all material is removed from Phase 1. The proposed operational phase should not cause an increase in trucks, as the applicant's goal is to ensure a smooth continuation of the mining operation across phases.

## **Projected Truck-Trip Generation**

Potentially, the trip generation may increase in the future to an average of 47 empty trucks arriving at the site for loading each day, with 47 loaded trucks departing the mine each day. The estimated timing to potentially reach this level of trip generation is about four to five years after startup.

Table 2 shows the potential intermediate & long-term average number of trucks arriving by hour of the day.

Table 2: Entering Trucks by Hour of the Day
Potential Intermediate & Long-Term Future – About 4 to 5 Years After Startup

nediate & E	ong remirature	About 4 to 3 Tea				
Hou	rly Period	Trucks that Potentially may enter the site				
Start Time	End Time	Entering Trucks (Average)				
7:00 8:00		5				
8:00	9:00	5				
9:00	10:00	5				
10:00	11:00	4				
11:00	12:00	5				
12:00	13:00	5				
13:00	14:00	4				
14:00	15:00	5				
15:00	16:00	4				
16:00	17:00	3				
17:00	18:00	1				
18:00	19:00	1				
Total [	Daily Entering Trucks	47				

#### APPLICANT-PROPOSED HAUL ROUTE

The haul route described below (and shown in Figure 3) is proposed by the applicant. Approximately half of the haul trips (loaded and empty) would be controlled by Ellicott, while the other half would be operated by outside hauling companies. The applicant will direct the trucking company and outside hauling companies to use this specific route when departing the site, which may be used for truck loads up to 88,000 pounds gross vehicle weight (GVW):

- 1. From the mine entrance, turn left and continue eastbound on Sanborn Road for 0.25 miles.
- 2. Turn left onto Baggett Road and continue northbound for 3.0 miles.
- 3. Turn left onto State Highway 94 and travel west. Note: there may be rare instances where the trucks turn east, to deliver to jobs east of the mine site.

Truck drivers would be required to travel **to** the site using this route in the reverse direction.

#### SIGHT DISTANCE

Access sight distance is acceptable at the proposed entrance on Sanborn Road, meeting all sight distance requirements in the *ECM*. No horizontal or vertical sight distance issues exist at key intersections along the proposed haul route, including:

- Sanborn Road/proposed site access
- State Highway 94/Baggett Road
- Baggett Road/Sanborn Road

Based on a 45-mile-per-hour (mph) posted speed limit, sight distances for both approaches on Sanborn Road from the proposed site access location exceed the required 680-foot requirement for multi-unit trucks, per *ECM* Table 2-35

#### **ROADWAYS AND TRAFFIC CONDITIONS**

## **Area Roadways**

Major roadways in the site vicinity are shown in Figure 1 and identified below, followed by a brief description of each. Roadway functional classifications are shown in Figure 4, while detailed existing roadway conditions are shown in Figure 5.

**State Highway (SH) 94** is a two-lane, paved rural highway with a posted speed limit of 65 mph in the vicinity of Baggett Road. The highway extends east from US Highway (Hwy) 24 near Peterson Air Force Base about 85 miles to Highway 287 in Cheyenne County. CDOT classifies SH 94 as an NR-A highway west of Ellicott Highway and R-A east of Ellicott Highway. CDOT has identified the governing document with respect to access management for SH 94 in the vicinity of the site as the *State Highway 94 Access Management Plan* (2012). The El Paso County 2040 *Major* 

Transportation Corridors Plan (MTCP) identifies SH 94 as a two-lane Principal Arterial in the Ellicott area. The MTCP 2060 Corridor Preservation Plan identifies SH 94 as a future four-lane Principal Arterial. However, future right-of-way needs will be identified by CDOT.

**Ellicott Highway** is classified as a two-lane Minor Arterial on the 2040 El Paso County *MTCP*. The posted speed limit on Ellicott Highway south of SH 94 is 45 mph. Auxiliary left-turn lanes currently exist on the eastbound and westbound approaches at the two-way stop-controlled (TWSC) intersection of Ellicott Highway/SH 94.

**Baggett Road** is classified as a two-lane Rural Local roadway on the 2040 El Paso County *MTCP*. No auxiliary lanes currently exist at the TWSC intersection of Baggett Road/SH 94. Currently, Baggett Road is a 24-foot-wide gravel roadway with 4-foot shoulders and 60 feet of right-of-way (ROW). The posted speed limit on Baggett Road is 45 mph.

**Sanborn Road** is classified as a two-lane Collector on the 2040 El Paso County *MTCP*. No auxiliary lanes currently exist at the TWSC intersections of Baggett Road/Sanborn Road and Sanborn Road/Ellicott Highway. Currently, Sanborn Road is a 32-foot-wide gravel roadway with 4-foot shoulders and 90 feet of ROW. The posted speed limit on Sanborn Road is 45 mph.

**Handle Road** is classified as a two-lane Rural Local street on the 2040 El Paso County *MTCP*. No auxiliary lanes currently exist at the TWSC intersection of Handle Road/Baggett Road. Currently, Handle Road is a 24-foot-wide gravel roadway with 4-foot shoulders and a 60-foot ROW. The posted speed limit on Handle Road is 45 mph.

**Ellicott Road** is classified as a two-lane Rural Local roadway on the 2040 El Paso County *MTCP*. No auxiliary lanes currently exist at the TWSC intersections of Handle Road/Ellicott Road and Sanborn Road/Ellicott Road. Currently, Ellicott Road is paved north of Handle Road and has a gravel roadway surface to the south. A 24-foot-wide roadway with 4-foot shoulders and a 60-foot ROW, Ellicott Road has a posted speed limit of 45 mph.

#### **Existing Traffic Volumes**

Vehicular turning-movement counts were conducted at the following intersections:

- State Highway 94/Baggett Road
  - o Wednesday, November 13, 2019 from 6:30 to 8:30 a.m.
  - o Wednesday, December 11, 2019 from 4:00 to 6:00 p.m.
- Baggett Road/Sanborn Road
  - o Wednesday, December 11, 2019 from 6:30 to 8:30 a.m.
  - o Wednesday, December 18, 2019 from 4:00 to 6:00 p.m.

Existing morning and evening weekday peak-hour traffic volumes at these intersections are shown in Figure 6. Raw count reports are attached.

Figure 6 also shows the results of 2021 daily machine counts conducted along the proposed haul route at two locations on Baggett Road and one location on Sanborn Road just west of Baggett Road. The figure also includes prior volume data for these segments (carried over from the previous version of this report, for reference) as well as estimates of average weekday traffic by LSC for other segments for the key roadway segments.

#### TRIP GENERATION

#### **Short Term**

Typically, site-generated vehicle trips for proposed land uses are estimated using the nationally-published trip-generation rates from *Trip Generation*, *10th Edition*, *2017* by the Institute of Transportation Engineers (ITE). ITE Land use 140-Manufacturing has been selected to estimate the trip generation for this mining operation. Rates based on "acres" have been selected for the trip-generation estimate. The anticipated area of active mining and processing has been used – estimated at about 1.25 acres. The resulting trip-generation estimate is shown in Table 3.

To verify the trip-generation estimate, the resulting calculated estimate was compared to the actual trip generation from the Pueblo County mine. Minor adjustments to the ITE rates for manufacturing were made, based on these actual mining data. Appendix A contains the raw data from the Pueblo site and calculation tables converting truck-scale data to trip-generation estimates.

The projected area of mining disturbance is less than 1.25 acres. Each of the five phases will consist of mini phases of approximately 1.15 acres (500 feet long by 100 feet wide). Assuming an annual production of 250,000 tons per year starting in year 2, the 1.15 acres of disturbance per mini phase will result in approximately 4.6 months of production. Therefore, a total of 3.0 acres are estimated to be affected by mining during the second full 12 months of production (2.6 mini phases). This assumes no decrease in production during limited-construction winter months.

The applicant has indicated that this pit will operate similarly to the one in Pueblo County, with comparable trip generation — at least in the short term. There will be a difference in operating hours, with this El Paso County pit beginning operations at 7:00 a.m.

- Thirty (30) haul truck trips per day are expected in the short term on the average weekday (half entering and exiting every 24 hours).
- Approximately 44 total vehicle trips (haul trips and employee trips combined) are expected in the short term on the average weekday (half entering and exiting every 24 hours).
- During the morning peak hour, 3 total vehicles are projected to enter the mine site, while 2 total vehicles are projected to exit.
- Approximately 2 vehicles would enter, and 3 total vehicles would exit the mine site during the afternoon peak hour.

**Table 3: Estimated Site Vehicle-Trip Generation** 

	ITE		Trip Generation Rates <sup>1</sup> D						Drive	Oriveway Trips Generated				
	110		Units	Average		М.		M.	Average	A.M.		P.M.		
Code	Description	_		Weekday	In	Out	In	Out	Weekday	In	Out	In	Out	
					<b>,</b>									
				Existing	(Puebl	o Site)								
				Pueblo	o Site -	- Curre	nt Tota	l Trips	42	3	2	1	4	
			Ex	kisting Averag	e Truc	k Trips -	Cour	nt Data	30	2	2	0	0	
				stimated Othe					12	1	0	1	4	
							_							
				Short-Tern	n (Ellic	ott Site	e)							
Trin Go	neration Estimate (Sh	ort Torm	Initial On	oration) ITE	Pates									
140		1.250	Acres	34.91	4.00	0.73	1.82	2.55	44	5	1	2	3	
140	Manufacturing	1.250	Acres	34.91	4.00	0.73	1.82	2.55	44	5	1	2	3	
Trip Ge	neration Estimate (Sh	ort Term	- Initial Op	eration) - w/	Minor	Adjusti	ments	to ITE R	ates					
140	Manufacturing	1.250	Acres	34.91	2.40	1.60	1.60	2.40	44	3	2	2	3	
					9	Short-T	erm	Trucks	30	2	2	1	1	
				Short-1	Геrm	Passer	nger Ve	hicles	14	1	0	1	2	
Potential Future Intermediate & Long-Term (Ellicott Site)														
Trip Ge	neration Estimate (In	termedia	ite & Long 1	Term - Optimi	stic Fu	ll Opera	ation) -	· ITE Rat	tes					
140	Manufacturing	3.150	Acres	34.91		0.73	1.82	2.55	110	13	2	6	8	
	· ·													
Trip Generation Estimate (Intermediate & Long Term - Optimistic Full Operation) - w/ Minor Adjustments to ITE Rates														
140	Manufacturing	3.150	Acres	34.91		1.90		-	110	7	6	3	7	
						Long-T			94	5	5	2	2	
			Intermed	diate & Long-1	Term	Passer	nger Ve	hicles	16	2	0	1	5	
1 Course	v. Trin Conoration 40	)+b	n 2017 h	+h a Ina+i++-	of Tree		ion F:-	ain a a ==	· /ITC\					
	e: Trip Generation, 10	טוו במולוס	11, 2017, by	ine institute (	or Iran	sportat	ion En	gineers	(IIE)					
Rev. 3/7	// 2021													

## Potential Future/Intermediate & Long-Term Trip Generation

Per information provided by the applicant, the following is an estimate of potential future increased trip generation:

- Up to 47 empty trucks would arrive at the site for loading each day and up to 47 loaded trucks will leave the mine each day. Thus, in the intermediate & long-term future, the proposed mining operation could potentially generate up to 94 haul truck-trips on the average weekday.
- Additionally, about 16 passenger vehicle trips (employees, visitors, etc.) could potentially be generated in the future.
- This potential future trip generation is also shown in Table 3.

## **Trip Distribution and Assignment**

An estimate of directional distribution of site-generated vehicle-trips to the study-area roads is a necessary component in determining the site's traffic impacts. Figure 7 shows the estimated distribution/proportion of mine-generated trips on the area roadway network. Haul-vehicle distribution and passenger-vehicle distribution splits are shown separately.

Estimates were based on the following factors: the proposed haul route and employee trip routing provided by the applicant, the area roadway system that will provide access to the site, and the site's geographic location. The truck distribution reflects the applicant's requirement for haul-vehicle drivers to utilize the proposed designated haul route. Also, the distribution reflects the applicant's intent to require employees to arrive from and depart to the west via Sanborn Road (rather than Baggett Road).

#### **Site-Generated Traffic**

#### Short Term

The short-term mine-generated traffic volumes at the following intersections have been calculated by applying the distribution percentages (from Figure 7) to the short-term trip-generation estimates (from Figure 8).

- State Highway 94/Baggett Road
- Baggett Road/Sanborn Road
- Sanborn Road/proposed site access

Figure 8 shows the short-term projected mine-generated daily traffic volumes at these intersections for the weekday morning and evening peak hours. The figure also shows the projected mine-generated average daily volumes during the peak summer months.

#### Intermediate & Long Term

Figure 9 shows the potential intermediate & long-term projected mine-generated peak-hour and average daily traffic volumes. These are based on the same distribution from Figure 7 and the intermediate & long-term trip-generation estimates from Table 3.

#### **Existing-Plus-Site-Generated Traffic Volumes**

Figure 10 shows the sum of the existing traffic volumes (from Figure 6) and short-term site-generated peak-hour and daily traffic volumes (shown in Figure 8). These volumes represent the projected short-term total traffic. Also shown (at the intersection of SH 94/Baggett Road) are applicable projected short-term total "passenger-car-equivalent" turning-movement traffic volumes.

## **Long-Term Background Traffic Volumes**

Figure 11 shows the projected 2040 background traffic volumes. Background traffic on SH 94 has been based on CDOT growth factors and estimates by LSC. Traffic volumes to be generated by the proposed mining operation are **not** included in this figure. Long-term background growth estimates on Sanborn Road and Baggett Road were made using projections from the *MTCP* and estimates by LSC, respectively, as noted in the legend in Figure 11.

## **2040 Background Plus-Site-Generated Traffic Volumes**

Figure 12 shows the sum of the 2040 Background traffic volumes (from Figure 11) and intermediate & long-term site-generated peak-hour and daily traffic volumes (shown in Figure 9). These volumes represent the potential long-term total traffic.

#### **LEVEL OF SERVICE ANALYSIS**

Level of service (LOS) is a quantitative measure of the level of congestion or delay at an intersection and is indicated on a scale from "A" to "F." LOS A is indicative of little congestion or delay. LOS F indicates a high level of congestion or delay. Table 4 shows the level of service delay ranges for signalized and unsignalized intersections.

**Table 4: Intersection Levels of Service Delay Ranges** 

	<b>Signalized Intersections</b>	<b>Unsignalized Intersections</b>				
	Average Control Delay	Average Control Delay				
<b>Level of Service</b>	(seconds per vehicle)	(seconds per vehicle) <sup>(1)</sup>				
А	10.0 sec or less	10.0 sec or less				
В	10.1-20.0 sec	10.1-15.0 sec				
С	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				

<sup>(1)</sup> 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

The following intersections have been analyzed to determine the projected short- and long-term (following the opening of mining operations) LOS for the key intersection turning movements:

- State Highway 94/Baggett Road
- Baggett Road/Sanborn Road
- Sanborn Road/proposed site access

Summaries of existing, existing-plus-site, 2040 Background, and 2040 Total traffic scenario levels of service during the weekday morning and evening peak hours are shown in the following figures:

- Figure 6: Existing Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 10: Existing + Site Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 11: 2040 Background Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 12: 2040 Background + Site Traffic, Lane Geometry, Traffic Control, and LOS

Please refer to the Synchro reports (attached) for additional details.

## State Highway 94/Baggett Road

#### Short-Term

All individual turning movements and minor street single-lane approaches currently operate at and are projected to remain at LOS B or better upon site buildout if the intersection were to remain two-way stop-sign-controlled in the short term.

#### Long-Term

All individual turning movements and minor street single-lane approaches currently operate at and are projected to remain at LOS C or better upon site buildout, if the intersection were to remain two-way stop-sign-controlled in the long term.

#### **Baggett Road/Sanborn Road**

All single-lane approaches at the intersection of Baggett Road/Sanborn Road are projected to operate at LOS A through the 2040 horizon.

#### Sanborn Road/Site Access

All single-lane approaches at the proposed site access on Sanborn Road are projected to operate at LOS A through the 2040 horizon. For purposes of this level of service analysis, stop-sign control on the southbound approach is assumed.

#### **AUXILIARY TURN-LANE NEEDS EVALUATION**

#### **CDOT Intersection**

#### State Highway 94/Baggett Road

According to criteria in the *State Highway Access Code*, exclusive auxiliary turn lanes shall be provided for any access on an R-A highway with a projected peak-hour ingress exceeding the following turning volume thresholds:

- Left-turn lane 10 vehicles per hour (vph) or greater
- Right-turn lane 25 vph or greater

## Passenger-Car-Equivalent Peak-Hour Turning Movements

Passenger-car-equivalent (PCE) turning movements at the State Highway intersection have been calculated per Section 2.3.4.e of the Colorado State Highway Access Code by applying a factor of 3 to the projected site-generated volumes **for trucks only**. These PCE volumes have been calculated as required by CDOT for traffic volumes at the intersection controlled by CDOT (specifically, for vehicles turning from State Highway 94 onto Baggett Road). The PCE factor of 3 was **not** applied to trips associated with workers accessing the site using their personal vehicles.

## Short-Term

Approximately 10 vehicles per hour (the passenger car equivalent volume is 12) are projected to make an eastbound right-turning movement during the morning peak hour, which does **not** exceed the 25 vph right-turn lane threshold in the *State Highway Access Code*. Based on the combination of operations for the proposed sand/gravel pit and existing traffic volumes along the haul route, **no auxiliary turn lanes (left or right) would be required, based on the** *Access Code* **turning-volume threshold during the short term.** 

#### Long-Term

Background traffic volumes in the study area are anticipated to grow over time due to additional background development.

The long-term peak-hour background projections are 5 (a.m.) and 15 (p.m.) eastbound right-turning vehicles. The totals with site-generated turning volumes are projected at 10 and 17 vehicles per hour during the morning and afternoon peak hours, respectively (the passenger-car-equivalent volumes are 20 and 21, respectively). An eastbound right-turn lane would **not** be required, based on these projections and the *Access Code* turning-volume threshold for right-turn lanes.

Due to background (non-mine operations traffic), approximately 15 vehicles per hour are projected to make an eastbound left turn during the afternoon peak hour, which exceeds the 10-vph threshold for a left-turn deceleration lane in the *State Highway Access Code*. **NOTE: This information is provided for reference only (as required by El Paso County), as the proposed gravel pit would not add traffic to this turning movement.** The figure shows a left-turn arrow – representing a potential matching short westbound left-turn bay – not triggered by volume (and not triggered by traffic generated by this project) – but shown for purposes of maintaining lane alignment. This potential short turn bay would likely be constructed as part of redirect tapers for the eastbound left-turn lane (not by this applicant).

#### **El Paso County Intersections**

#### Sanborn Road Intersections/Access Point

According to criteria in the *Engineering Criteria Manual*, exclusive auxiliary turn lanes shall be provided at intersections/access point on a Collector roadway with a projected peak-hour ingress exceeding the following turning-volume thresholds:

- Left-turn lane 25 vehicles per hour (vph)
- Right-turn lane 50 vph or greater

#### **Baggett Road/Sanborn Road**

No modifications are required to the existing single-lane approaches at the intersection of Baggett Road/Sanborn Road. Auxiliary right- or left-turn lanes would **not** be required on any approach on Sanborn Road or Baggett Road, based on projected site-generated traffic volumes and criteria in the *ECM*.

#### **Site Access Point on Sanborn Road**

No auxiliary right- or left-turn lanes would be required at the proposed site access point on Sanborn Road, based on projected site-generated traffic volumes and criteria in the *ECM*.

#### AVERAGE DAILY TRAFFIC IMPACTS RELATIVE TO ROADWAY DESIGN ADT BY CLASSIFICATION

#### **El Paso County Roadway Segments**

Note: The County *ECM* does not specify a requirement to adjust for passenger-car equivalents when calculating ADTs for use in evaluating against the design ADT by classification.

The projected buildout average daily traffic (ADT) impacts have been compared to the roadway design ADTs shown in Tables 2-4 and 2-5 of the *ECM*. Figure 4 shows existing roadway classifications along the haul route and has been provided as a general reference. The actual

current roadway capacities for specific roadway segments may differ from these *ECM*-identified "Design ADT" values for County-standard roadways by classification.

#### **Baggett Road**

## **Existing and Short Term**

Baggett Road is a Local, gravel roadway. The *ECM* design ADT for this type of roadway is 200 ADT. Figure 6 and Figure 10 show the existing and existing plus site and ADT volumes, respectively, on the section just south of SH 94 and on the section north of Sanborn Road. With the addition of projected haul-route site-generated trips to the roadway, the section just north of Sanborn Road and the section just south of SH 94 are likely to remain under the 200 ADT threshold in the short term.

#### **Long Term**

The 2040 MTCP shows residential household growth in the general area north of Sanborn Road. Figure 12 shows LSC's estimates of 2040 volumes on Baggett Road. Future volumes may vary significantly depending on location of the growth, development access points, and area roadway conditions. The section just north of Sanborn Road, at 245 vehicles per day, is projected to exceed the 200 ADT threshold in the long term. The section just south of SH 94 is projected to be approximately 275 vpd without the proposed mine operation, with increases in background traffic (due to area development and growth). The projected total would be 370 ADT in the long term.

#### Sanborn Road

This project's traffic added to the existing volume is **not** projected to bring the roadway segment between the site access and Baggett Road to a volume over 200 ADT.

Based on *MTCP* projected 2040 background traffic volumes, current cross section, and functional classification, the *MTCP* 2040 "Gravel Road Analysis" shows Sanborn Road as "Deficient." *MTCP* project P9 Roadway paving project is shown due to this background volume and resulting deficiency. Map 7 of the *MTCP* also indicates that the condition of the existing gravel roadway on Sanborn is "adequate."

Based on *MTCP* projected 2040 volume, the proposed mine traffic would represent a relatively minor percentage of the projected future total traffic.

Additionally, Sanborn Road is indicated in the list of *MTCP* improvements as a roadway likely to be eligible for credit/reimbursement should paving be required. The applicant would be required to contact the County's Road Advisory Committee regarding possible reimbursement, in the event that Sanborn Road would be required to be paved.

#### DESIGN VEHICLE ACCOMMODATION AT HAUL ROUTE INTERSECTIONS AND ALONG ROADWAYS

#### Intersections

The largest anticipated haul vehicles should be considered the "design vehicle" for purposes of evaluating the geometry of existing intersections along the anticipated haul route. Intersections along the haul route (SH 94/Baggett Road and Baggett Road/Sanborn Road, as well as the site access intersection) will likely require some intersection corner-radius and potentially other geometric improvements to meet criteria 2.3.7.G of the El Paso County *Engineering Criteria Manual*.

## State Highway 94/Baggett Road

- The southwest corner radius will likely need to be improved to accommodate right-turning multi-unit-truck haul vehicles. This would likely entail grading and paving of a compound radius and potentially pavement markings.
- The turning path of the northbound left turn should be analyzed to determine intersection geometric improvements which may be needed to accommodate this turning movement.
- If there is the potential for haul trucks to turn to the east on SH 94, the southeast corner radius should also accommodate northbound-to-eastbound right turns by multi-unit trucks.

#### **Baggett Road/Sanborn Road**

- Short Term: Based on the existing traffic volumes along Sanborn Road, the existing
  intersection may be able to accommodate a turning vehicle without modification
  (assuming the truck could utilize the entire intersection footprint to complete the turn).
  Minor modifications to the northwest corner radius may be needed if truck-turning
  analysis shows insufficient geometry.
- **Long Term:** As volumes increase as projected along Sanborn in the *MTCP*, the following may be necessary in the future:
  - The northwest corner radius may need to be improved to accommodate southbound right-turning multi-unit-truck haul vehicles. This would likely entail grading and installing a compound radius.
  - The turning path of the eastbound-to-northbound left turn should be analyzed to determine intersection geometric improvements may be needed to accommodate this turning movement by haul vehicles.

## Sanborn Road/proposed site access

- The northeast corner radius may need to be designed to accommodate right-turning multi-unit-truck haul vehicles. The northwest corner radius may need to be designed for truck-turning movements, even though the current haul route shows trucks turning to the east.
- The turning path of the southbound left turn should be accommodated as part of the access design. The eastbound left-turning movement should also be designed to accommodate multi-unit trucks, even though the current haul route shows trucks entering from the east.

Note: Intersection AutoTurn analysis, findings, and recommendations for design-vehicle accommodation will be provided with the site development plan application.

#### FINDINGS AND CONCLUSIONS

#### Land Use (Applicant-Provided Programming Information)

The applicant has provided LSC with operations information including the anticipated number of haul trucks per day, hours and days of operation, and employee counts. This trip-generation estimate has been verified with this information.

## **Trip Generation Estimate**

- The proposed mining operation would generate an average of 30 haul-truck trips on the average weekday (one-half entering and one-half exiting in a 24-hour period).
- Per information provided by the applicant, an average of 15 empty trucks would arrive at the site for loading each day and 15 loaded trucks will leave the mine each day.
- Additionally, about 14 passenger-vehicle trips (employees, visitors, etc.) are projected.
  Most employees will arrive prior to the morning peak hour and the trips estimate assumes
  more dispersed exiting employee trips in the afternoon/early evening depending on
  demand daily variability.
- This report also includes estimates of potential intermediate & long-term trip generation

   potentially an average of 110 total trips (truck trips plus employee-/passenger-vehicle trips).

#### **Proposed Haul Route**

Please refer to Figure 3 for a map detailing the proposed haul route between the mine and destinations west of the site (which is the direction of the major, potential market).

#### **Level of Service Analysis**

All individual turning movements/approaches at the following intersection currently operate at and are projected to remain at LOS B or better through the 2040 horizon, with or without the addition of site-generated traffic:

- State Highway 94/Baggett Road
- Baggett Road/Sanborn Road
- Sanborn Road/proposed site access

## **Auxiliary Turn Lanes**

Based on the analysis in this report, no auxiliary turn lanes would be required. Please refer to the "Auxiliary Turn-Lane Needs Evaluation" section above for a detailed auxiliary turn-lane needs assessment.

## Average Daily Traffic Impacts Relative to Roadway Design ADT (by Classification)

The following summarizes our findings. Please refer to the above section for additional details.

## Baggett Road

Baggett Road is a Local, gravel roadway. The *ECM* design ADT for this type of roadway is 200 ADT. Figure 6 and Figure 10 show the existing and existing-plus-site and ADT volumes, respectively, on the section just south of SH 94 and on the section north of Sanborn Road. Based on projected existing-plus-short-term mine-generated traffic volumes (shown in Figure 10), the section just north of Sanborn Road and the section just south of SH 94 would remain under the 200 ADT threshold in the short term.

LSC projects 2040 total volumes of about 245 to 370 ADT on Baggett Road, depending on the segment (as shown in Figure 12). Due to the relatively low volumes, future volumes may vary significantly from these estimates. These would exceed 200 ADT and future mitigation may be needed.

## Sanborn Road

This project's traffic added to the existing volume is **not** projected to bring the roadway segment between the site access and Baggett Road to a volume over 200 ADT.

The MTCP shows Sanborn Road as "deficient" by 2040, based on MTCP 2040 traffic projections. The proposed haul route includes the section of Sanborn Road between Baggett Road and the site access.

As mentioned above, additional site traffic would constitute up to about six percent of the projected 2040 traffic volumes along the section of Sanborn Road between Baggett Road and the site access. The applicant will be paying fees into the Countywide fee program.

#### Haul Vehicle (Design Vehicle) Accommodation

Please refer to the section "Design Vehicle Accommodation at Haul Route Intersections and Along Roadways" for potential intersection corner radius improvements that may be necessary to accommodate multi-unit haul trucks.

#### El Paso County Roadway Improvement Fee Program

This development will be subject to participation in the El Paso County Roadway Improvement Fee Program. TIS comments indicated the following:

The County would recommend that the fee by calculated based on the ITE land use (140) of Manufacturing with the units of measure being per acre. Since the proposed mining land use is not directly in the ITE manual a determination from the County administrator would be required. Per the Road impact fee implementation document the timing and payment obligation is triggered by the final land use approval required (i.e., at the site development plan application). Staff recommends that the final calculation be provided at that stage as we will know exactly what will be proposed with the first phase of development and a determination can be made at that time by the County Administrator. Alternatively, a request may be made to the County Administrator as to whether an independent study per the road implementation document would be allowed to be submitted.

Note: The El Paso County Roadway Improvement Fee calculation will be provided at a later date with the site development plan application.

#### LIST OF DEVIATIONS REQUESTED

The following deviation request form has been prepared:

 Access is not permitted on a Rural Major Collector, per ECM Table 2-5. The applicant is requesting site access on Sanborn Road, a Rural Major Collector.

\* \* \* \* \*

October 12, 2021 Traffic Impact Analysis

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

Respectfully Submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E. Principal

JCH:JAB:jas

Enclosures: Figure 1-Figure 12

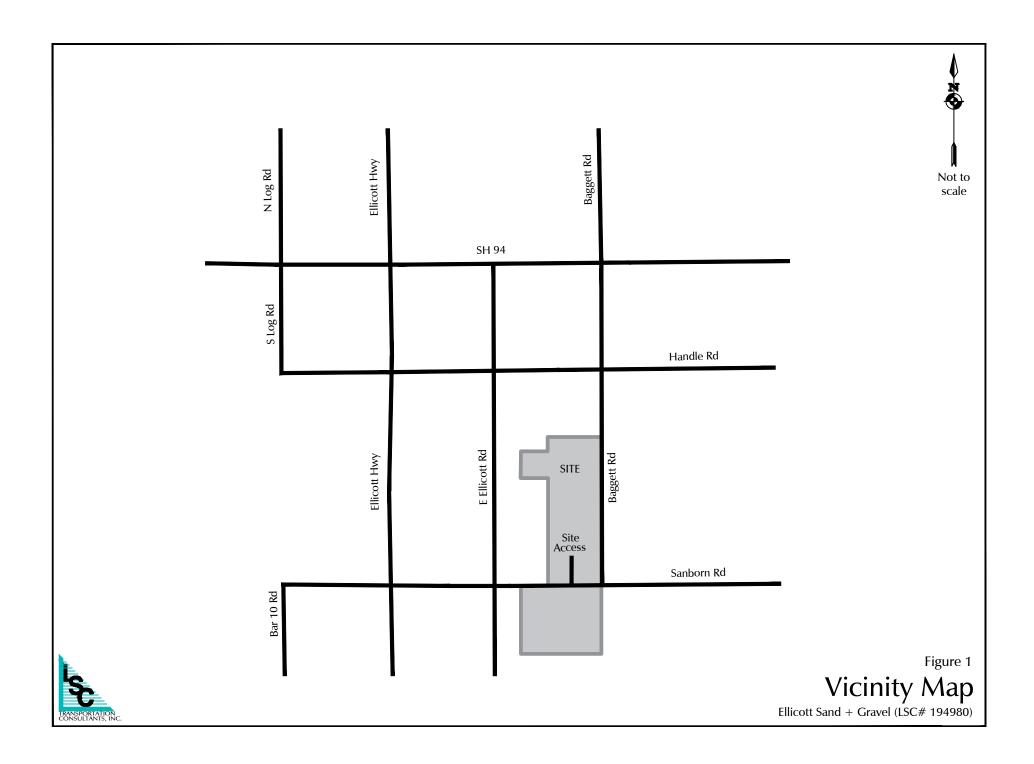
Traffic Count Reports LOS Synchro Reports

Appendix A (Pueblo County Pit Trip Generation Data)

Access Exhibit by Stage

# **Figures**





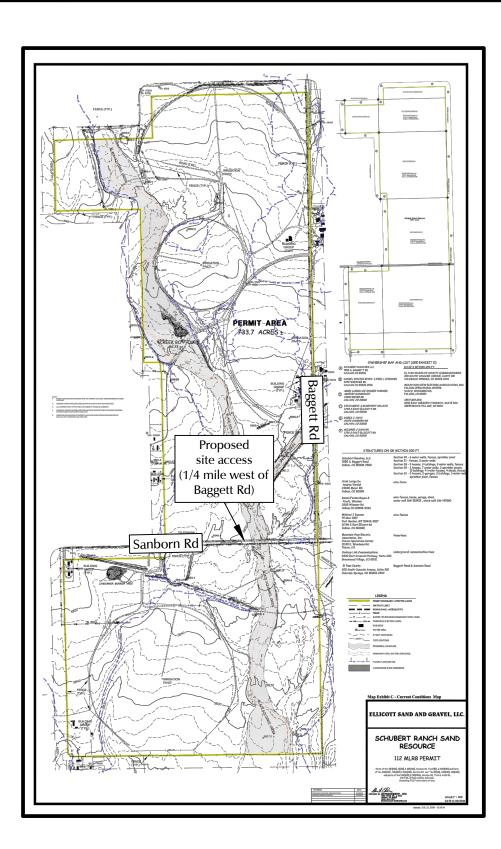
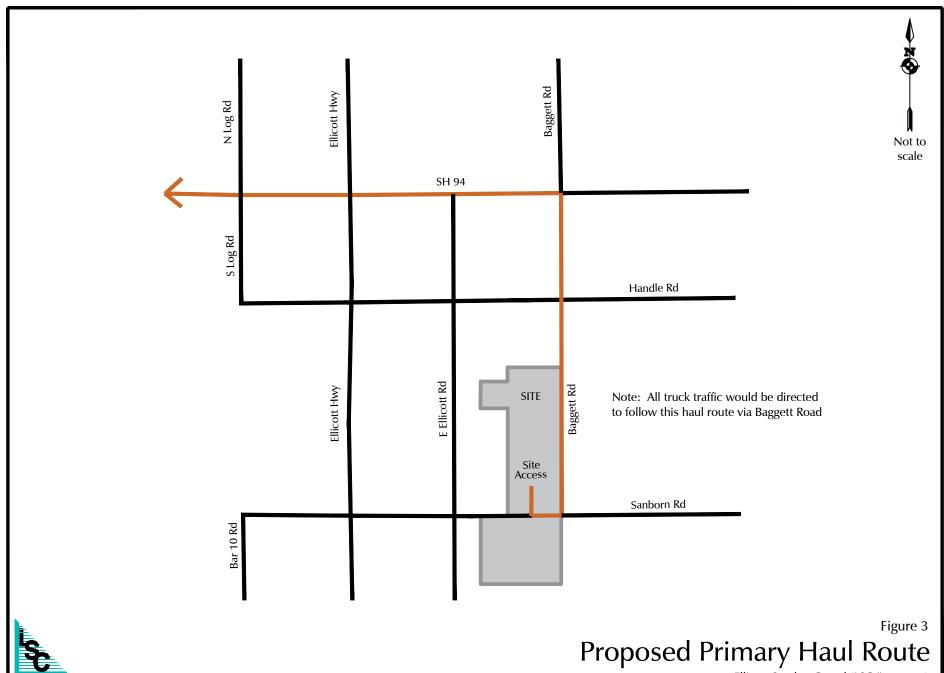
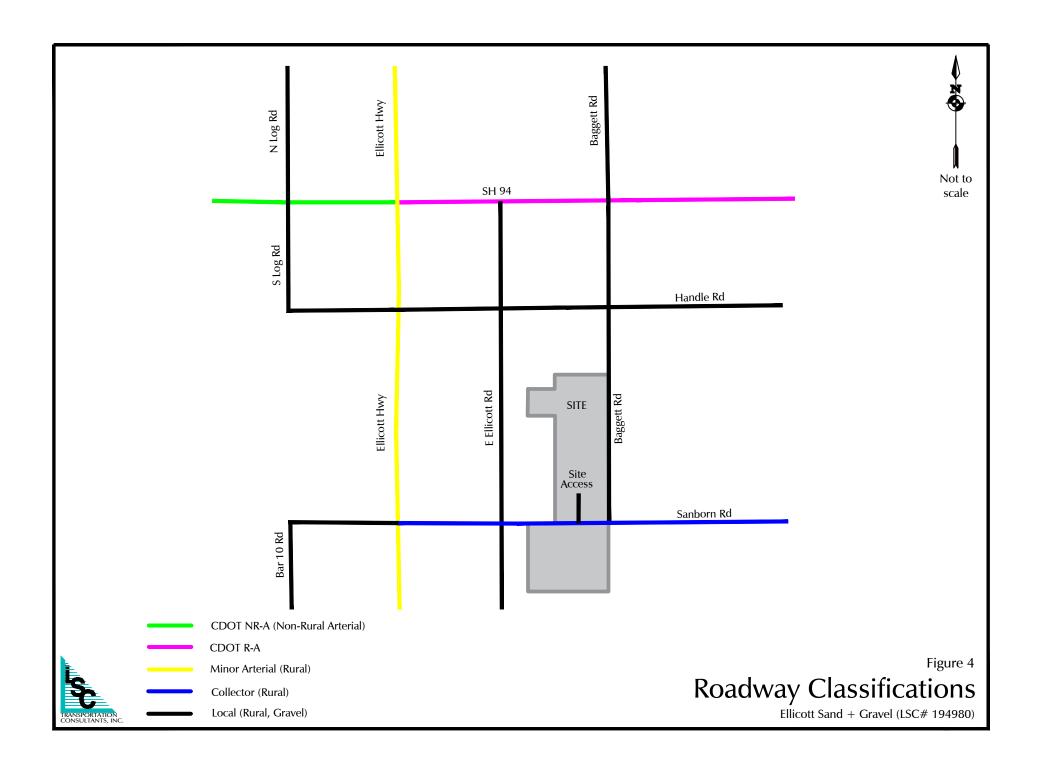


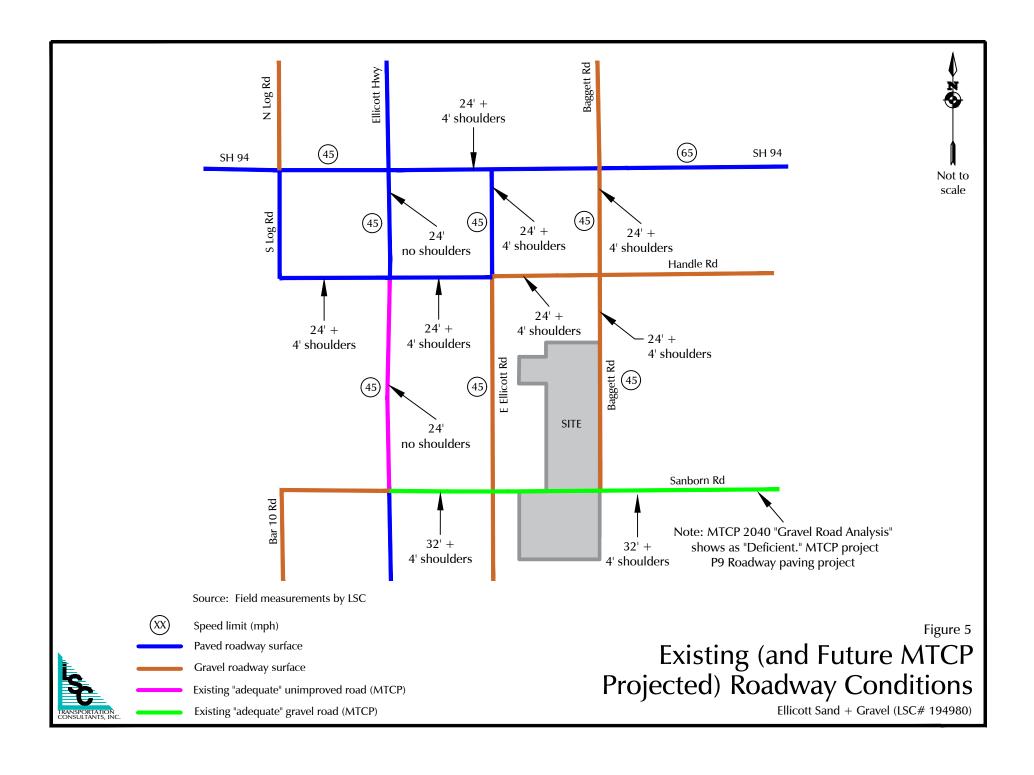


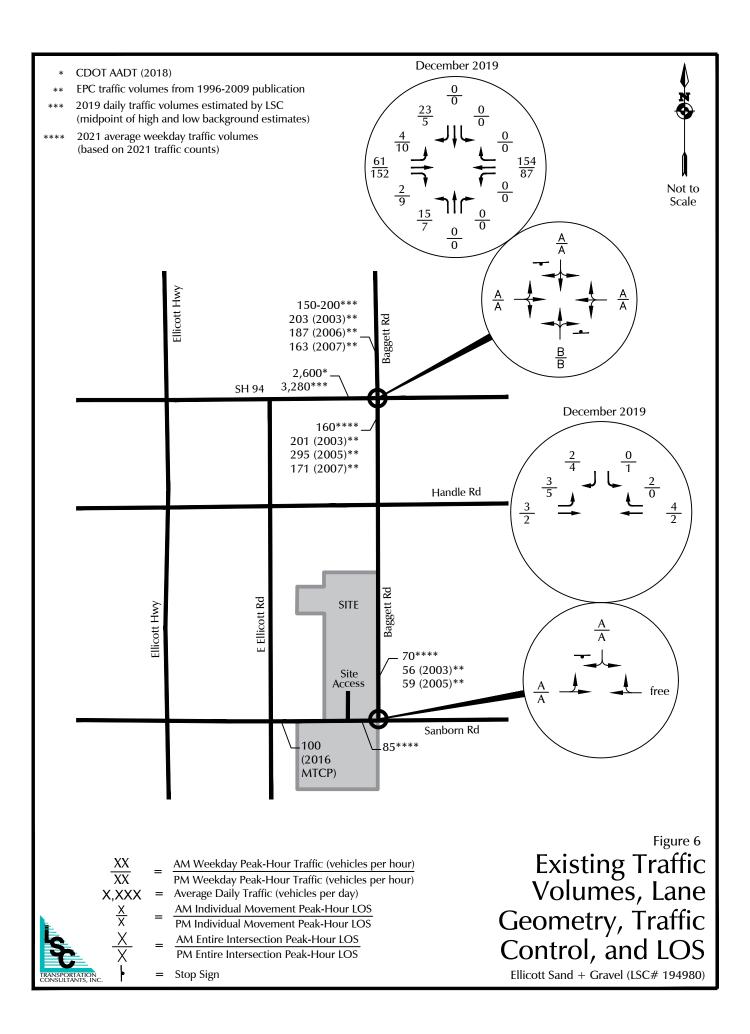
Figure 2

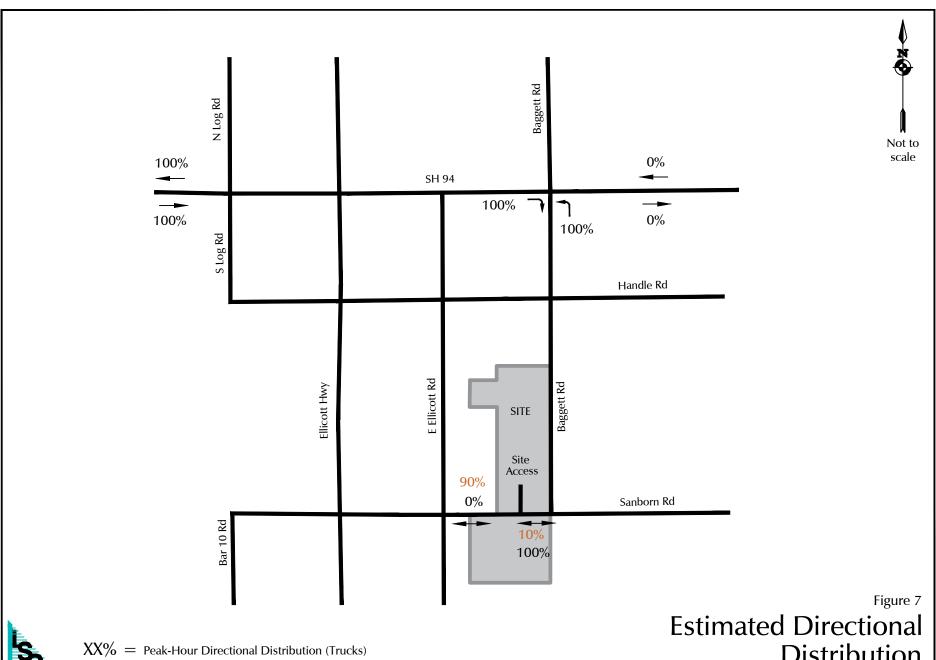
## Site Plan





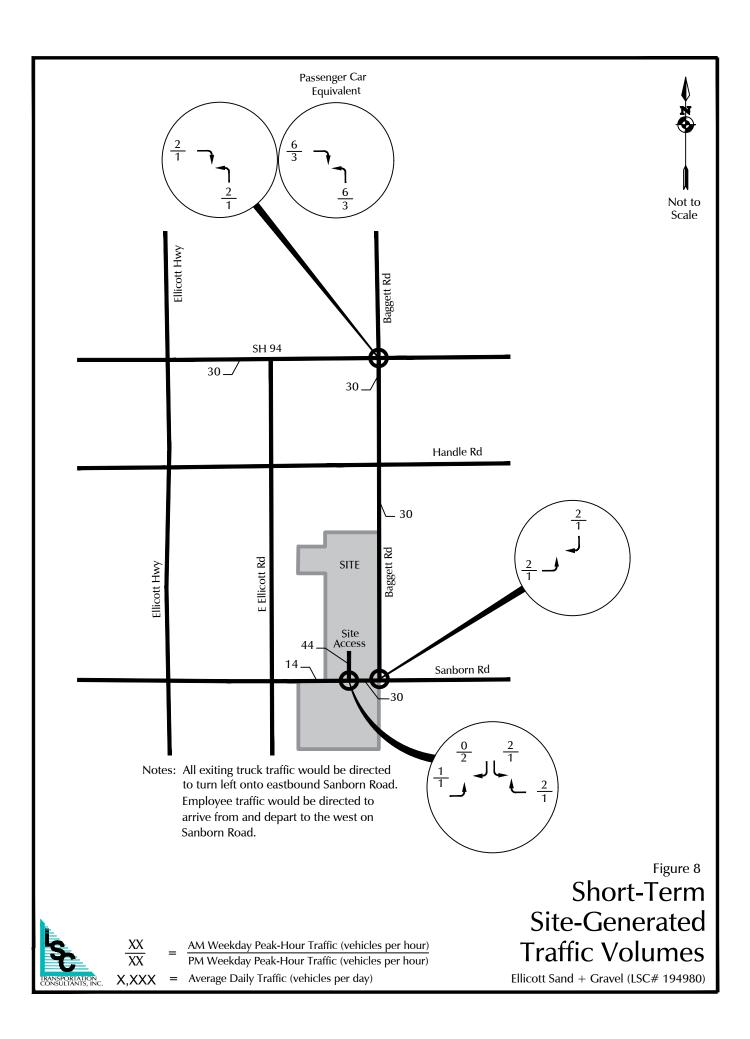


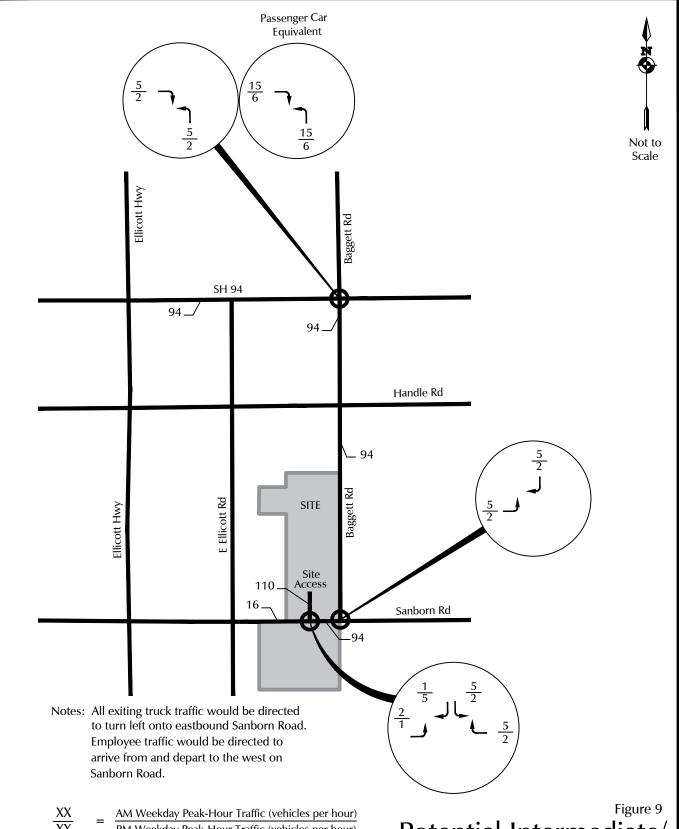




XX% = Peak-Hour Directional Distribution (Passenger Vehicles)

Distribution



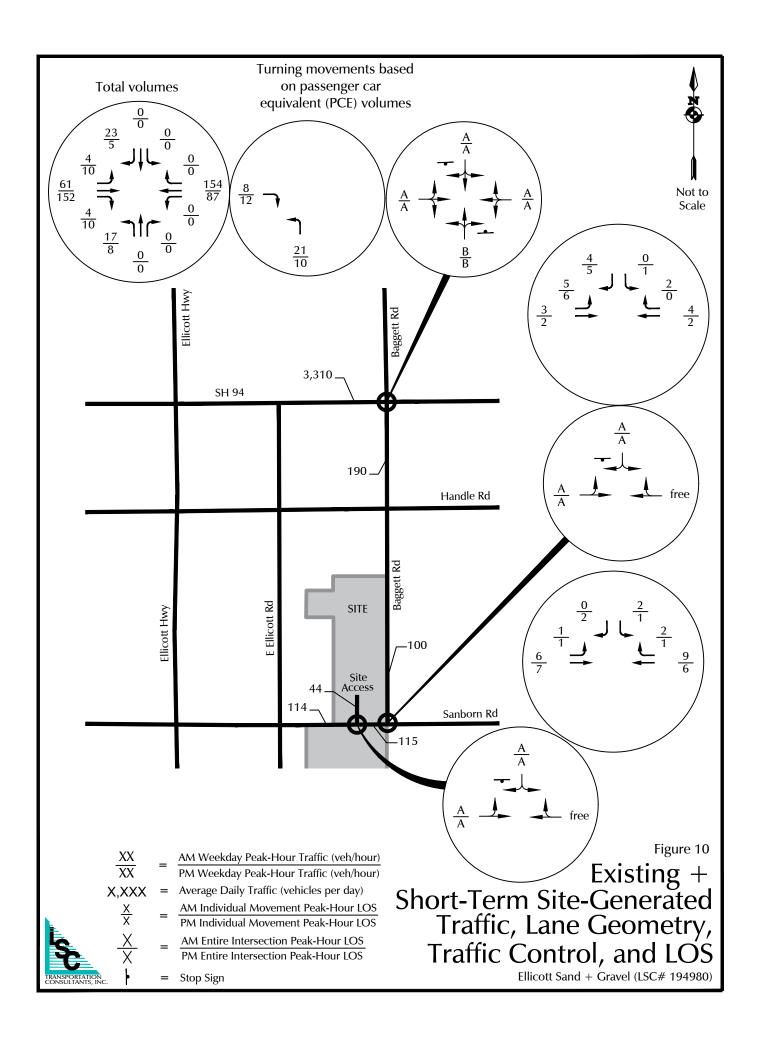


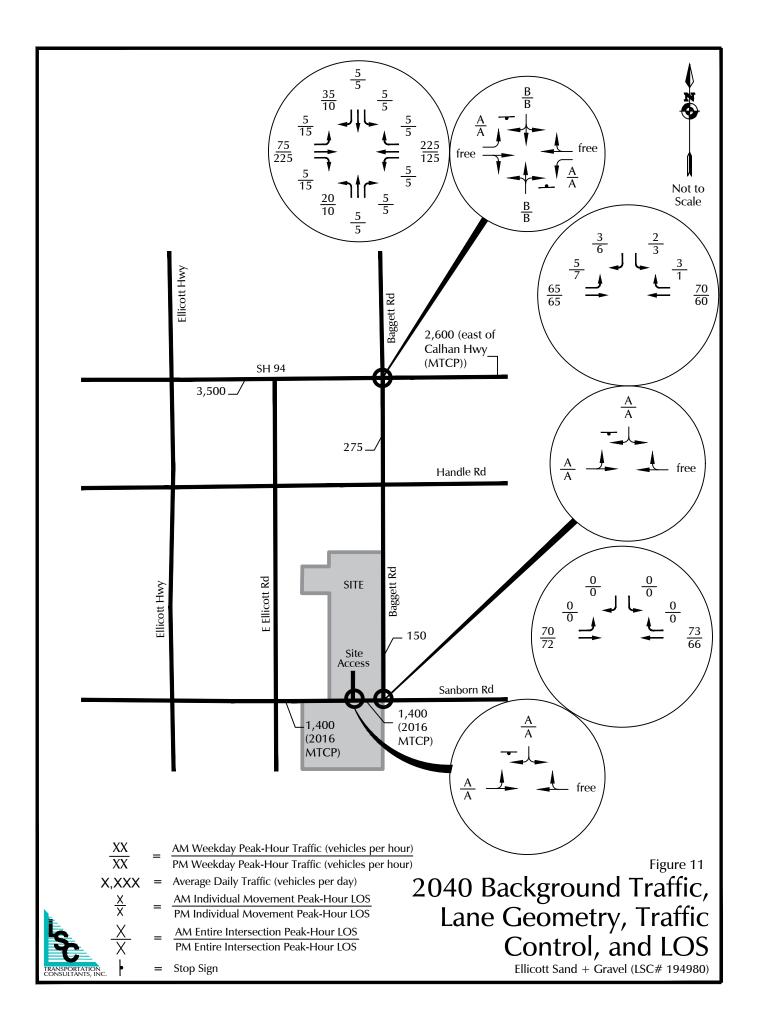
 $\frac{XX}{XX}$ PM Weekday Peak-Hour Traffic (vehicles per hour)

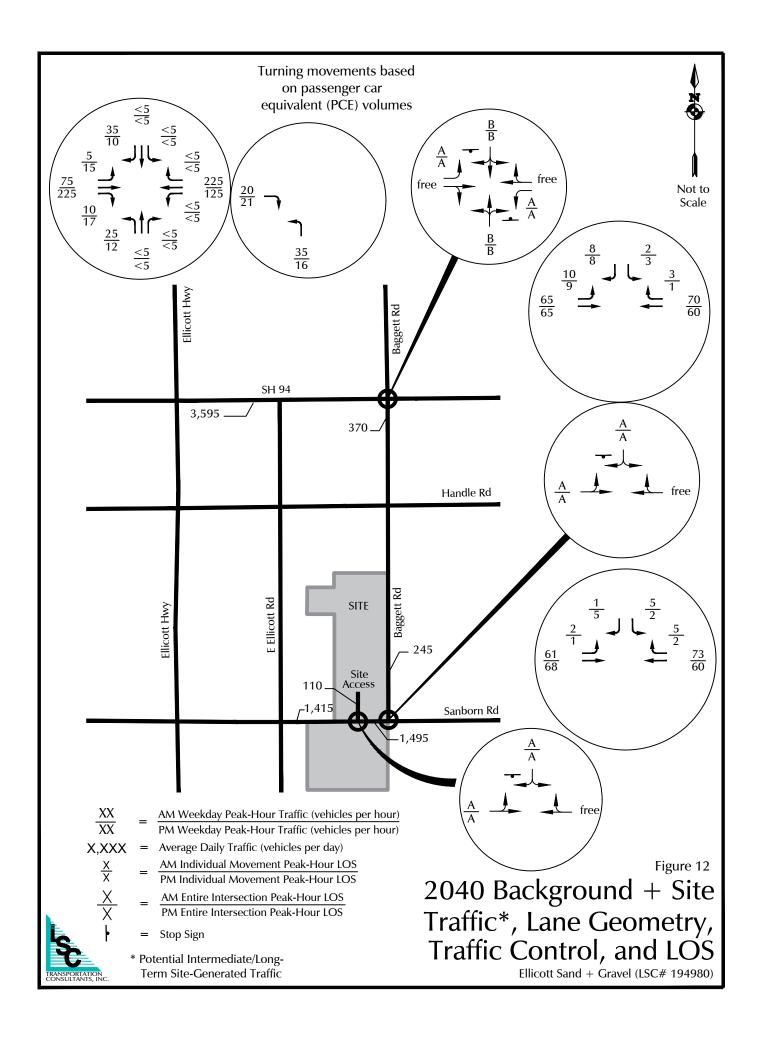
X,XXX Average Daily Traffic (vehicles per day)

> \*These represent Average Site-Generated volumes with potential increases over short-term volumes depending on pit operations, demand, etc.

Potential Intermediate/ Long-Term Site-Generated Traffic Volumes\*







## **Traffic Counts**



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

File Name: Baggett Rd - Hwy 94 AM

Site Code : 00194980 Start Date : 11/13/2019

Page No : 1

Groups Printed-Unshifted

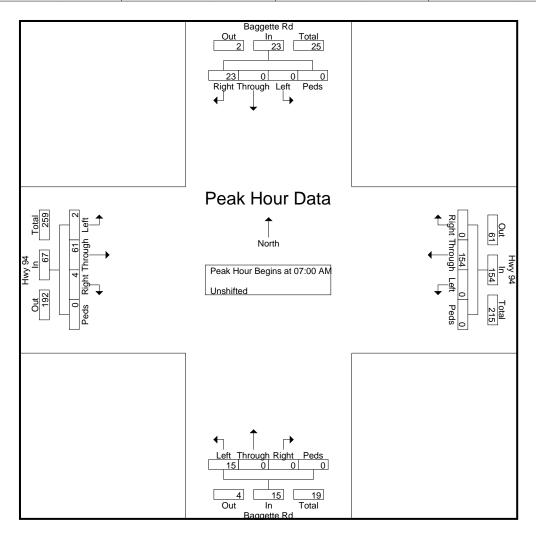
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06:45 AM	0	0	0	0	0	0	21	0	0	21	2	0	0	0	2	1	9	0	0	10	33
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07:15 AM	0	0	9	0	9	0	39	0	0	39	3	0	0	0	3	0	14	1	0	15	66
07:30 AM	0	0	8	0	8	0	31	0	0	31	0	0	0	0	0	0	17	2	0	19	58
07:45 AM	0	0	3	0	3	0	34	0	0	34	4	0	0	0	4	2	17	0	0	19	60
Total	0	0	23	0	23	0	154	0	0	154	15	0	0	0	15	2	61	4	0	67	259
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2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Baggett Rd - Hwy 94 AM

Site Code : 00194980 Start Date : 11/13/2019

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07:30 AM	0	0	8	0	8	0	31	0	0	31	0	0	0	0	0	0	17	2	0	19	58
07:45 AM	0	0	3	0	3	0	34	0	0	34	4	0	0	0	4	2	17	0	0	19	60
Total Volume	0	0	23	0	23	0	154	0	0	154	15	0	0	0	15	2	61	4	0	67	259
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2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

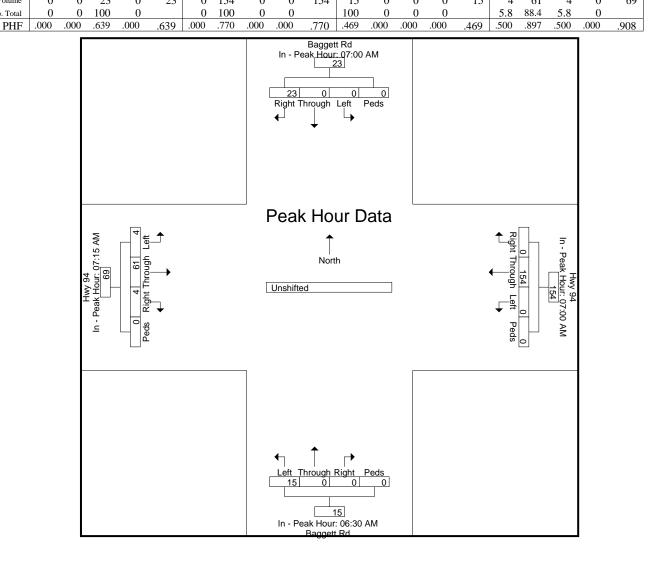
File Name: Baggett Rd - Hwy 94 AM

Site Code : 00194980 Start Date : 11/13/2019

Page No : 3

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+30 mins.	0	0	8	0	8	0	31	0	0	31	8	0	0	0	8	2	17	0	0	19
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2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Baggett Rd - Hwy 94 PM

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     87.5         0         0 | ft         Through         Right         Peds         App. Total         Left         Through           0         1         1         0         2         0         20           0         0         2         0         2         0         28           0         0         1         0         1         0         22           0         0         1         0         1         0         15           0         0         1         0         1         0         22           0         0         1         0         1         0         22           0         0         0         0         0         0         10           0         0         0         0         0         0         10           0         0         0         0         0         0         17           0         0         2         0         2         0         68 | ft         Through         Right         Peds         App. Total         Left         Through         Right           0         1         1         0         2         0         20         0           0         0         2         0         2         0         28         0           0         0         1         0         1         0         22         0           0         0         1         0         1         0         15         0           0         0         1         0         1         0         15         0           0         0         1         0         1         0         22         0           0         0         1         0         1         0         22         0           0         0         0         0         0         10         0         0           0         0         0         0         0         0         17         0           0         0         0         0         0         0         17         0           0         0         0         0         0         1 | ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds           0         1         1         0         2         0         20         0         0         0           0         0         2         0         2         0         28         0         0         0           0         0         1         0         1         0         22         0 <td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total           0         1         1         0         2         0         20         0         0         20           0         0         2         0         28         0         0         28           0         0         1         0         15         0         0         15           0         0         1         0         15         0         0         15           0         0         1         0         22         0         0         22           0         0         1         0         15         0         0         85           0         0         1         0         22         0         0         22           0         0         1         0         22         0         0         22           0         0         0         0         10         0         0         10           0         0         0         0         0         17         0         0         17</td> <td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left           0         1         1         0         2         0         20         0         0         20         0           0         0         2         0         2         0         28         0         0         22         0           0         0         1         0         1         0         22         0         0         22         0           0         0         1         0         15         0         0         15         3           0         0         1         0         15         0         0         15         3           0         0         1         0         15         0         0         15         3           0         0         1         0         15         0         0         85         0         0         22         1           0         0         0         0         0         0         0         0         10         0         0         10         <t< td=""><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through           0         1         1         0         2         0         20         0         0         20         0         0           0         0         2         0         2         0         28         3         0         0           0         0         1         0         1         0         22         0         0         22         0         0           0         0         1         0         15         0         0         15         3         0           0         0         1         0         15         0         0         15         3         0           0         0         1         0         15         0         0         85         0         0         85         6         0           0         0         1         0         1         0         22         0         0         22         1         0           0         0         0         0</td><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right           0         1         1         0         2         0         20         <t< td=""><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds           0         1         1         0         2         0         20         0   
     0         0</td><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total           0         1         1         0         2         0         20         0<td>ft         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Peds<!--</td--><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Peds         App. Total         Left         Tyrough         Right           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds           0         1         1         0         2         0         20         0         0         0         0         0         0         0         3         25         1         0           0         0         1         0         2         0         28         3         0         0         0         3         0         31         5         0           0         0         1         0         15         0         0         15         3         0         0         0         7         35         2         0           0         1         5         0         6         0         85         0         0         85         0         0         0         0         1         1         49         1         0&lt;</td><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total           0         1         1         0         2         0         0         0         0         3         25         1         0         29           0         0         1         0         1         0         22         0         0         0         0         0         3         2         37         1         0         40           0         0         1         0         15         0         0         0         0         0         0         1         1         49         0</td></td></td></td></td></t<></td></t<></td> | ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total           0         1         1         0         2         0         20         0         0         20           0         0         2         0         28         0         0         28           0         0         1         0         15         0         0         15           0         0         1         0         15         0         0         15           0         0         1         0         22         0         0         22           0         0         1         0         15         0         0         85           0         0         1         0         22         0         0         22           0         0         1         0         22         0         0         22           0         0         0         0         10         0         0         10           0         0         0         0         0         17         0         0         17 | ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left           0         1         1         0         2         0         20         0         0         20         0           0         0         2         0         2         0         28         0         0         22         0           0         0         1         0         1         0         22         0         0         22         0           0         0         1         0         15         0         0         15         3           0         0         1         0         15         0         0         15         3           0         0         1         0         15         0         0         15         3           0         0         1         0         15         0         0         85         0         0         22         1           0         0         0         0         0         0         0         0         10         0         0         10 <t< td=""><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through           0         1         1         0         2         0         20         0         0         20         0         0           0         0         2         0         2         0         28         3         0         0           0         0         1         0         1         0         22         0         0         22         0         0           0         0         1         0         15         0         0         15         3         0           0         0         1         0         15         0         0         15         3         0           0         0         1         0         15         0         0         85         0         0         85         6         0           0         0         1         0         1         0         22         0         0         22         1         0           0         0         0         0</td><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right           0         1         1         0         2         0         20         <t< td=""><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left    
    Through         Right         Peds         App. Total         Left         Through         Right         Peds           0         1         1         0         2         0         20         0</td><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total           0         1         1         0         2         0         20         0<td>ft         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Peds<!--</td--><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Peds         App. Total         Left         Tyrough         Right           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds           0         1         1         0         2         0         20         0         0         0         0         0         0         0         3         25         1         0           0         0         1         0         2         0         28         3         0         0         0         3         0         31         5         0           0         0         1         0         15         0         0         15         3         0         0         0         7         35         2         0           0         1         5         0         6         0         85         0         0         85         0         0         0         0         1         1         49         1         0&lt;</td><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total           0         1         1         0         2         0         0         0         0         3         25         1         0         29           0         0         1         0         1         0         22         0         0         0         0         0         3         2         37         1         0         40           0         0         1         0         15         0         0         0         0         0         0         1         1         49         0</td></td></td></td></td></t<></td></t<> | ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through           0         1         1         0         2         0         20         0         0         20         0         0           0         0         2         0         2         0         28         3         0         0           0         0         1         0         1         0         22         0         0         22         0         0           0         0         1         0         15         0         0         15         3         0           0         0         1         0         15         0         0         15         3         0           0         0         1         0         15         0         0         85         0         0         85         6         0           0         0         1         0         1         0         22         0         0         22         1         0           0         0         0         0 | ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right           0         1         1         0         2         0         20         0 <t< td=""><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds           0         1         1         0         2         0         20         0</td><td>ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total           0         1         1         0         2         0         20         0         0         0         0         0         0   
     0         0<td>ft         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Peds<!--</td--><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Peds         App. Total         Left         Tyrough         Right           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds           0         1         1         0         2         0         20         0         0         0         0         0         0         0         3         25         1         0           0         0         1         0         2         0         28         3         0         0         0         3         0         31         5         0           0         0         1         0         15         0         0         15         3         0         0         0         7         35         2         0           0         1         5         0         6         0         85         0         0         85         0         0         0         0         1         1         49         1         0&lt;</td><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total           0         1         1         0         2         0         0         0         0         3         25         1         0         29           0         0         1         0         1         0         22         0         0         0         0         0         3         2         37         1         0         40           0         0         1         0         15         0         0         0         0         0         0         1         1         49         0</td></td></td></td></td></t<> | ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds           0         1         1         0         2         0         20         0 | ft         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total         Left         Through         Right         Peds         App. Total           0         1         1         0         2         0         20         0 <td>ft         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Peds<!--</td--><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Peds         App. Total         Left         Tyrough         Right           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App.
Total         Left         Tyrough         Right         Peds           0         1         1         0         2         0         20         0         0         0         0         0         0         0         3         25         1         0           0         0         1         0         2         0         28         3         0         0         0         3         0         31         5         0           0         0         1         0         15         0         0         15         3         0         0         0         7         35         2         0           0         1         5         0         6         0         85         0         0         85         0         0         0         0         1         1         49         1         0&lt;</td><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total           0         1         1         0         2         0         0         0         0         3         25         1         0         29           0         0         1         0         1         0         22         0         0         0         0         0         3         2         37         1         0         40           0         0         1         0         15         0         0         0         0         0         0         1         1         49         0</td></td></td></td> | ft         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left         Tyrrough         Right         Peds         App. Total         Left           0         1         1         0         2         0         20         0 <td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Peds<!--</td--><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Peds         App. Total         Left         Tyrough         Right           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds           0         1         1         0         2         0         20         0         0         0         0         0         0         0         3         25         1         0           0         0         1         0         2         0         28         3         0         0         0         3         0         31         5         0           0         0         1         0         15         0         0         15         3         0         0         0         7         35         2         0           0         1         5         0         6         0         85         0         0         85         0         0         0         0         1         1         49         1         0&lt;</td><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total           0         1         1         0         2         0         0         0         0         3         25         1         0         29           0         0         1         0         1         0         22         0         0         0         0         0         3         2         37         1         0         40           0         0         1         0         15         0         0         0         0         0         0         1         1         49         0</td></td></td> | ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Right         Peds         App. Total         Peds </td <td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Peds         App. Total         Left         Tyrough         Right           0         1         1         0         2         0         20         0<td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds           0         1         1         0         2         0         20         0         0         0         0         0         0         0         3         25         1         0           0         0         1         0         2         0         28         3         0         0         0         3         0         31         5         0           0         0         1         0         15         0         0         15         3         0         0         0         7         35         2         0           0         1         5         0         6         0         85         0         0         85         0         0         0         0         1         1         49         1         0&lt;</td><td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total           0         1         1         0         2         0         0         0         0         3         25         1         0         29           0         0         1         0         1         0         22         0         0         0         0         0         3         2         37         1         0         40           0         0         1         0         15         0         0         0         0         0         0         1         1         49         0</td></td> | ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Peds         App. Total         Left         Tyrough         Right           0         1         1         0         2         0         20         0 <td>ft         Tyrough         Right         Peds      
  App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds           0         1         1         0         2         0         20         0         0         0         0         0         0         0         3         25         1         0           0         0         1         0         2         0         28         3         0         0         0         3         0         31         5         0           0         0         1         0         15         0         0         15         3         0         0         0         7         35         2         0           0         1         5         0         6         0         85         0         0         85         0         0         0         0         1         1         49         1         0&lt;</td> <td>ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total           0         1         1         0         2         0         0         0         0         3         25         1         0         29           0         0         1         0         1         0         22         0         0         0         0         0         3         2         37         1         0         40           0         0         1         0         15         0         0         0         0         0         0         1         1         49         0</td> | ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds           0         1         1         0         2         0         20         0         0         0         0         0         0         0         3         25         1         0           0         0         1         0         2         0         28         3         0         0         0         3         0         31         5         0           0         0         1         0         15         0         0         15         3         0         0         0         7         35         2         0           0         1         5         0         6         0         85         0         0         85         0         0         0         0         1         1         49         1         0< | ft         Tyrough         Right         Peds         App. Total         Left         Tyrough         Right         Peds         App. Total           0         1         1         0         2         0         0         0         0         3         25         1         0         29           0         0         1         0         1         0         22         0         0         0         0         0         3         2         37         1         0         40           0         0         1         0         15         0         0         0         0         0         0         1         1         49         0 |

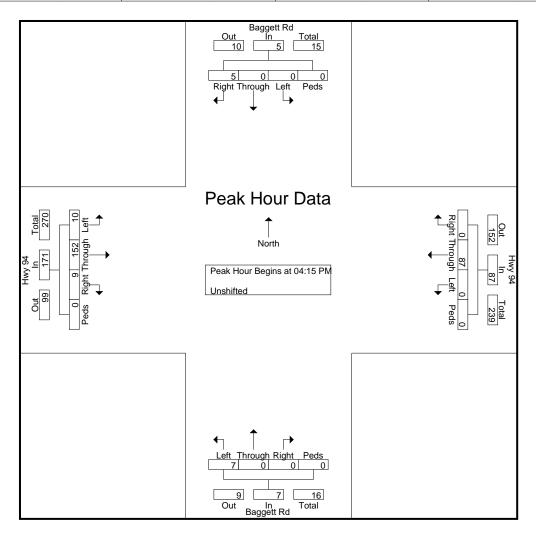


2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Baggett Rd - Hwy 94 PM

Site Code : 00194980 Start Date : 12/11/2019

			aggett uthbo					Hwy 9					aggett rthbo					Hwy 9			
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
Peak Hour	Analy	sis Fr	om 04	1:00 P	M to 05	:45 P	M - Pe	ak 1 d	of 1												
Peak Hour f	or Ent	ire Inte	ersecti	ion Be	gins at	04:15	PM														
04:15 PM	0	0	2	0	2	0	28	0	0	28	3	0	0	0	3	0	31	5	0	36	69
04:30 PM	0	0	1	0	1	0	22	0	0	22	0	0	0	0	0	7	35	2	0	44	67
04:45 PM	0	0	1	0	1	0	15	0	0	15	3	0	0	0	3	2	37	1	0	40	59
05:00 PM	0	0	1	0	1	0	22	0	0	22	1	0	0	0	1	1	49	1	0	51	75
Total Volume	0	0	5	0	5	0	87	0	0	87	7	0	0	0	7	10	152	9	0	171	270
% App. Total	0	0	100	0		0	100	0	0		100	0	0	0		5.8	88.9	5.3	0		
PHF	.000	.000	.625	.000	.625	.000	.777	.000	.000	.777	.583	.000	.000	.000	.583	.357	.776	.450	.000	.838	.900



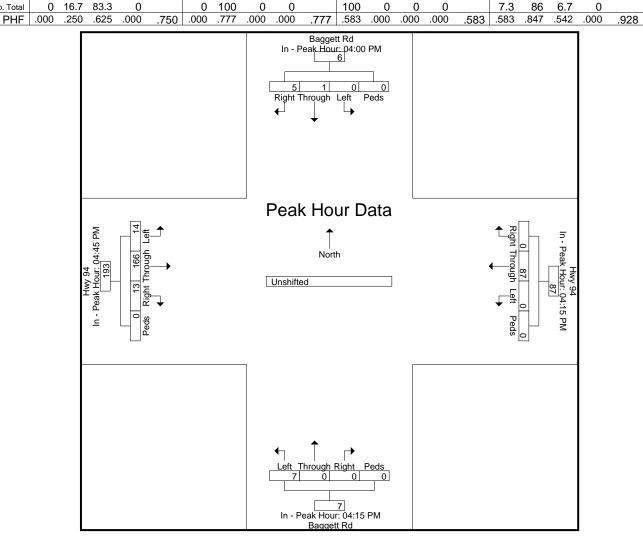


2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Baggett Rd - Hwy 94 PM

Site Code : 00194980 Start Date : 12/11/2019

			agget uthbo					Hwy 9 estbo					ggett					Hwy 9			
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. To
Peak Hour	Analy	sis Fr	om 04	4:00 P	M to 05	:45 P	M - Pe	ak 1 d	of 1												
Peak Hour f	or Eac	ch App	roach	Begir	ns at:																
	04:00 PM	1				04:15 PM	1				04:15 PM					04:45 PM					
+0 mins.	0	1	1	0	2	0	28	0	0	28	3	0	0	0	3	2	37	1	0	40	
+15 mins.	0	0	2	0	2	0	22	0	0	22	0	0	0	0	0	1	49	1	0	51	
+30 mins.	0	0	1	0	1	0	15	0	0	15	3	0	0	0	3	5	41	6	0	52	
+45 mins.	0	0	1	0	1	0	22	0	0	22	1	0	0	0	1	6	39	5	0	50	
Total Volume	0	1	5	0	6	0	87	0	0	87	7	0	0	0	7	14	166	13	0	193	
% App. Total	0	16.7	83.3	0		0	100	0	0		100	0	0	0		7.3	86	6.7	0		





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

File Name : Baggett Rd - Sanborn Rd AM Site Code : 00194980

Site Code : 00194980 Start Date : 12/11/2019

Page No : 1

**Groups Printed- Unshifted** 

			aggett					nborr estbo					agget					nborr			
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
06:30 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	2
06:45 AM	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	2	0	0	0	2	6
Total	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	3	0	0	0	3	8
07:00 AM	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	4
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2
07:30 AM	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	1	0	0	1	3
DREAN	**																				
Total	0	0	2	0	2	0	1	2	0	3	0	0	0	0	0	1	3	0	0	4	9
*** BREAK *	**				,															,	•
Grand Total	0	0	2	0	2	0	5	2	0	7	0	0	1	0	1	4	3	0	0	7	17
Apprch %	0	0	100	0		0	71.4	28.6	0		0	0	100	0		57.1	42.9	0	0		
Total %	0	0	11.8	0	11.8	0	29.4	11.8	0	41.2	0	0	5.9	0	5.9	23.5	17.6	0	0	41.2	I

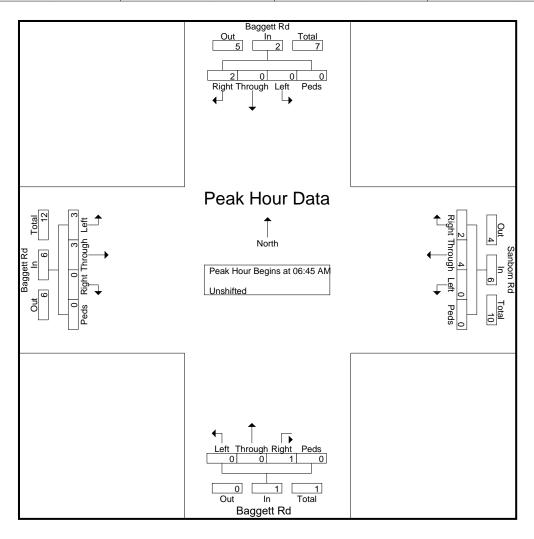


2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Baggett Rd - Sanborn Rd AM

Site Code : 00194980 Start Date : 12/11/2019

			aggett uthbo					nborr estbo					aggett orthbo					nborr			
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
Peak Hour	Analy	sis Fr	om 06	3:30 A	M to 08	3:15 A	M - Pe	ak 1	of 1												
Peak Hour f	or Ent	ire Inte	ersecti	ion Be	gins at	06:45	AM														
06:45 AM	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	2	0	0	0	2	6
07:00 AM	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	4
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2
07:30 AM	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	1	0	0	1	3
Total Volume	0	0	2	0	2	0	4	2	0	6	0	0	1	0	1	3	3	0	0	6	15
% App. Total	0	0	100	0		0	66.7	33.3	0		0	0	100	0		50	50	0	0		
PHF	.000	.000	.250	.000	.250	.000	.333	.500	.000	.500	.000	.000	.250	.000	.250	.375	.750	.000	.000	.750	.625



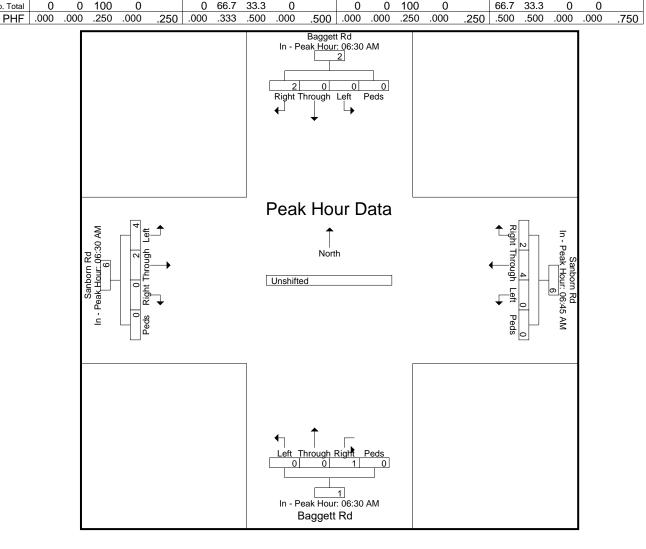


2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Baggett Rd - Sanborn Rd AM

Site Code : 00194980 Start Date : 12/11/2019

			iggett uthbo					nborr estbo					aggett rthbo					nborr astbo			
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Tota
Peak Hour	Analy	sis Fr	om 06	3:30 A	M to 08	3:15 A	M - Pe	eak 1	of 1												
Peak Hour f	or Eac	h App	roach	Begir	ns at:																
	06:30 AM					06:45 AM	1				06:30 AM					06:30 AM					
+0 mins.	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	1	0	0	0	1	
+15 mins.	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	2	0	0	0	2	
+30 mins.	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
+45 mins.	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	1	1	0	0	2	
Total Volume	0	0	2	0	2	0	4	2	0	6	0	0	1	0	1	4	2	0	0	6	
% App. Total	0	0	100	0		0	66.7	33.3	0		0	0	100	0		66.7	33.3	0	0		





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

File Name: Baggett Rd - Sanborn Rd PM

Site Code : 00194980 Start Date : 12/18/2019

Page No : 1

**Groups Printed- Unshifted** 

		Ва	aggett	Rd			Sa	nborr	Rd			Ва	aggett	Rd			Sa	nborr	ı Rd		
		So	uthbo	und			W	estbo	und			No	rthbo	und			Ea	stbou	ınd		
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
04:00 PM	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
04:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
04:30 PM	0	0	2	0	2	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	5
04:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	1	0	0	3	4
Total	1	0	4	0	5	0	2	0	0	2	0	0	0	0	0	5	2	0	0	7	14
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
05:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
05:30 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
05:45 PM	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	1	1_	0	0	2	4
Total	0	0	3	0	3	0	1	0	0	1	0	0	0	0	0	3	3	0	0	6	10
Grand Total	1	0	7	0	8	0	3	0	0	3	0	0	0	0	0	8	5	0	0	13	24
Apprch %	12.5	0	87.5	0		0	100	0	0		0	0	0	0		61.5	38.5	0	0		
Total %	4.2	0	29.2	0	33.3	0	12.5	0	0	12.5	0	0	0	0	0	33.3	20.8	0	0	54.2	

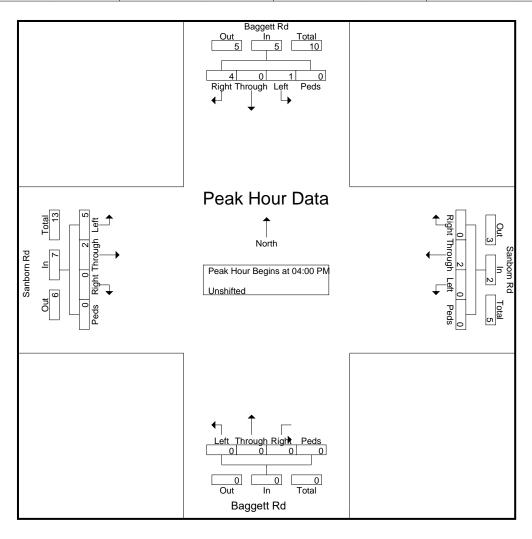


2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Baggett Rd - Sanborn Rd PM

Site Code : 00194980 Start Date : 12/18/2019

			aggett uthbo					nborr					aggett					anbor astbo			
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
Peak Hour	Analy	sis Fr	om 04	:00 P	M to 05	:45 P	M - Pe	ak 1 d	of 1												
Peak Hour f	or Ent	ire Inte	ersecti	on Be	gins at	04:00	PM														
04:00 PM	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
04:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
04:30 PM	0	0	2	0	2	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	5
04:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	1	0	0	3	4
Total Volume	1	0	4	0	5	0	2	0	0	2	0	0	0	0	0	5	2	0	0	7	14
% App. Total	20	0	80	0		0	100	0	0		0	0	0	0		71.4	28.6	0	0		
PHF	.250	.000	.500	.000	.625	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.625	.500	.000	.000	.583	.700



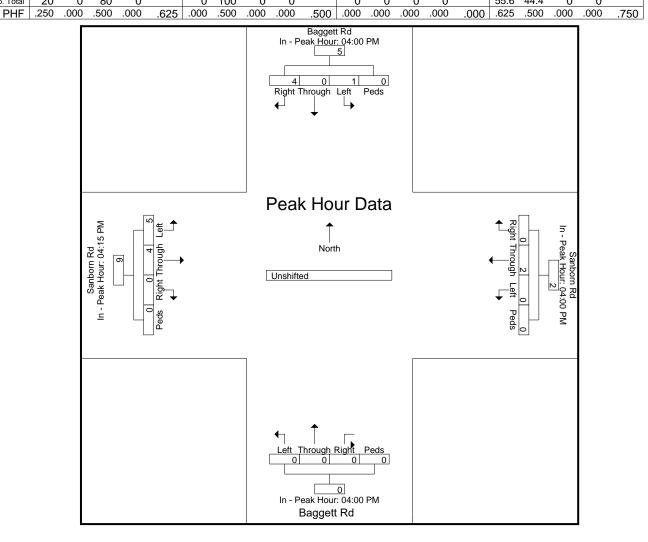


2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Baggett Rd - Sanborn Rd PM

Site Code : 00194980 Start Date : 12/18/2019

			aggett					nborr estbo					agget					anbor			
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. To
Peak Hour	Analy	sis Fr	om 04	1:00 P	M to 05	:45 P	M - Pe	ak 1 d	of 1												
Peak Hour f	for Eac	ch App	oroach	Begir	ns at:																
	04:00 PM	1		_		04:00 PM	1				04:00 PM					04:15 PM	1				
+0 mins.	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	
+15 mins.	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	
+30 mins.	0	0	2	0	2	0	1	0	0	1	0	0	0	0	0	2	1	0	0	3	
+45 mins.	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	
Total Volume	1	0	4	0	5	0	2	0	0	2	0	0	0	0	0	5	4	0	0	9	
9/ App Total	20	Λ	QΛ	Λ		^	100	Λ	Λ		0	Λ	Λ	Λ		55.6	111	Λ	Λ		



# **Traffic Counts (Tube Counts)**



### **COUNTER MEASURES INC.**

Location: BAGGETT ROAD N-O SANBORN ROAD City: ELICCOTT

1889 YORK STREET DENVER,COLORADO 80206 303-333-7409

Site Code: 212920

Station ID: 212920

County: EL PASO Direction: NORTH/SOUTH

Start	02-Feb-21		RTHBOUN		JTHBOUN		ombined	03-Feb	-	RTHBOUN		JTHBOUNI		mbined
Time	Tue	A.N						1. Wed	A.N			_		P.M
12:00		0	2	0	1	0	3		0	0	0	1	0	1
12:15		0	0	0	0	0	0		0	0	0	1	0	1
12:30		0	0	0	0	0	0		0	0	0	0	0	0
12:45		0	1	0	1	0	2		0	0	0	1	0	1
01:00		0	3	0	0	0	3		0	2	0	1	0	3
01:15		0	0	0	0	0	0		0	0	0	0	0	0
01:30		0	2	0	0	0	2		0	0	0	1	0	1
01:45		0	0	0	2	0	2		0	1	0	0	0	1
02:00		0	2	0	0	0	2		0	0	0	0	0	0
02:15		0	0	0	0	0	0		0	*	0	*	0	*
02:30		0	1	0	1	0	2		0	*	0	*	0	*
02:45		0	1	0	0	0	1		0	*	0	*	0	*
03:00		0	0	0	1	0	1		0	*	0	*	0	*
03:15		0	0	0	1	0	1		0	*	0	*	0	*
03:30		0	1	0	0	0	1		0	*	0	*	0	*
03:45		0	1	0	1	0	2		0	*	0	*	0	*
04:00		0	2	0	3	0	5		0	*	0	*	0	*
04:15		0	1	0	0	0	1		0	*	0	*	0	*
04:30		0	4	0	0	0	4		0	*	0	*	0	*
04:45		0	1	0	2	0	3		0	*	0	*	0	*
05:00		0	1	0	1	0	2		0	*	0	*	0	*
05:15		0	2	0	1	0	3		0	*	0	*	0	*
05:30		0	1	0	0	0	1		0	*	0	*	0	*
05:45		0	1	0	0	0	1		1	*	1	*	2	*
06:00		1	0	1	0	2	0		0	*	Ó	*	0	*
06:15		0	0	0	0	0	0		0	*	0	*	0	*
				-						*		*		*
06:30		0	0	0	0	0	0		0	*	1	*	1	
06:45		0	0	1	0	1	0		2	*	0	*	2	
07:00		2	0	2	0	4	0		1	*	1	*	2	•
07:15		0	1	2	1	2	2		0		0		0	*
07:30		0	1	0	1	0	2		0	*	0	*	0	*
07:45		0	0	2	0	2	0		1	*	0	*	1	*
08:00		0	0	3	0	3	0		0	*	1	*	1	*
08:15		2	0	0	0	2	0		1	*	0	*	1	*
08:30		1	0	0	0	1	0		0	*	1	*	1	*
08:45		0	0	0	0	0	0		0	*	0	*	0	*
09:00		0	0	0	0	0	0		0	*	0	*	0	*
09:15		0	0	0	0	0	0		1	*	0	*	1	*
09:30		1	0	0	0	1	0		0	*	1	*	1	*
09:45		1	0	1	0	2	0		1	*	0	*	1	*
10:00		1	0	0	0	1	0		0	*	0	*	0	*
10:15		0	1	0	0	0	1		1	*	1	*	2	*
10:30		0	0	0	0	0	0		0	*	0	*	0	*
10:45		0	0	0	0	0	0		0	*	0	*	0	*
11:00		1	0	0	0	1	0		0	*	1	*	1	*
11:15		0	0	1	0	1	0		0	*	0	*	0	*
11:30		0	0	0	0	0	0		0	*	0	*	0	*
11:45		0	0	0	0	0	0		0	*	0	*	0	*
Total		10	30	13	17	23	47		9	3	8	5	17	8
Day Tota	ı		40		30		70			12		13	2	5
% Total		4.3%	42.9%	18.6%	24.3%				36.0%	12.0%	32.0%	20.0%		
Peak	- (	07:45	03:45	07:15	03:15	07:00	04:00	-	06:15	01:00	05:45	12:00	06:15	00:15
Vol.	- `	3	8	7	5	8	13	_	3	3	2	3	5	5
P.H.F.	(	0.375	0.500	0.583	0.417	0.500	0.650		0.375	0.375	0.500	0.750	0.625	0.417
ADT	ΑD	T 48	А	ADT 48										

### **COUNTER MEASURES INC.**

1889 YORK STREET DENVER,COLORADO 80206 303-333-7409

Location: BAGGETT ROAD S-O SR 94 City: ELICCOTT County: EL PASO

Direction: NORTH/SOUTH

ADT

ADT 162

AADT 162

Site Code: 212910 Station ID: 212910

Start	02-Feb-21	NOR	THBOUND	SOU	JTHBOUN	ID C	ombined	03-Fe	eb NOI	RTHBOUN	ID SOL	JTHBOUNI	) C	Combined
Time	Tue	A.M		A.M				1. Wed						
12:00		0	2	0	2	0	4		0		0	1	0	1
12:15		0	1	0	0	0	1		0		0	1	0	1
12:30		Ö	1	1	1	1	2		0	0	0	3	0	3
12:45		0	0	0	1	0	1		0	2	0	1	0	3
01:00		0	3	0	2	0	5		0	0	0	2	0	2
01:15		0	1	0	1	0	2		0	0	0	0	0	0
01:30		0	0	0	1	0	1		0	0	0	0	0	0
01:45		0	2	0	2	0	4		0	0	0	1	0	1
02:00		0	1	0	0	0	1		0	0	0	0	0	0
02:15		0	3	0	0	0	3		0	*	0	*	0	*
02:30		0	1	0	2	0	3		0	*	0	*	0	*
02:45		0	2	0	1	0	3		0	*	0	*	0	*
03:00		0	2	0		0	5		0	*	0	*	0	*
03:15		0	0	0	3	0	1		0	*	0	*	0	*
				0		0	3		0	*	0	*	0	*
03:30 03:45		0	1	0	2				1	*	0	*	1	*
		•	2	-		1	4		-	*	-	*	-	*
04:00		2	1	0	2	2	3		0	*	0	*	0	
04:15		0	1	0	2	0	3		0	*	0	*	0	
04:30		2	3	0	1	2	4		1	*	0	*	1	^
04:45		1	0	0	5	1	5		0	*	0		0	
05:00		1	0	0	3	1	3		1		0	*	1	*
05:15		1	1	0	1	1	2		1	*	0	*	1	*
05:30		4	1	0	2	4	3		3	*	0	*	3	*
05:45		1	0	0	2	1	2		2	*	0	*	2	*
06:00		2	0	0	2	2	2		3	*	0	*	3	*
06:15		4	0	0	2	4	2		1	*	0	*	1	*
06:30		3	0	1	2	4	2		5	*	2	*	7	*
06:45		7	0	1	1	8	1		4	*	0	*	4	*
07:00		1	0	1	1	2	1		2	*	0	*	2	*
07:15		2	1	0	1	2	2		0	*	0	*	0	*
07:30		0	1	0	0	0	1		2	*	0	*	2	*
07:45		0	0	0	1	0	1		2	*	0	*	2	*
08:00		1	0	0	2	1	2		1	*	0	*	1	*
08:15		3	0	0	1	3	1		2	*	0	*	2	*
08:30		0	0	0	1	0	1		3	*	0	*	3	*
08:45		0	0	0	0	0	0		0	*	2	*	2	*
09:00		1	0	0	0	1	0		1	*	0	*	1	*
09:15		1	0	1	1	2	1		2	*	0	*	2	*
09:30		0	0	2	0	2	0		0	*	4	*	4	*
09:45		4	1	0	1	4	2		0	*	2	*	2	*
10:00		0	0	1	1	1	1		3	*	1	*	4	*
10:15		2	0	1	0	3	0		0	*	2	*	2	*
10:30		1	1	2	0	3	1		4	*	0	*	4	*
10:45		0	0	1	0	1	0		0	*	2	*	2	*
11:00		0	0	1	0	1	0		0	*	1	*	1	*
11:15		2	0	0	0	2	0		0	*	2	*	2	*
11:30		1	0	1	0	2	0		4	*	0	*	4	*
11:45		2	0	0	1	2	1		0	*	1	*	1	*
Total		50	33	14	57	64	90		48	2	19	9	67	11
Day Total	ıl		83		71		154		70	50	10	28	01	78
% Total		2.5%	21.4%	9.1%	37.0%		101		61.5%	2.6%	24.4%	11.5%		
/0 i Otal	0.	0 /0	<b>-</b> 1.→70	5.170	31.070				31.070	2.070	∠	11.070		
Peak	_ (	06:00	02:15	10:00	04:15	06:00	04:00	_	06:00	12:00	09:30	00:15	06:00	00:15
Vol.		16	8	5	11	18	15	_	13	2	9	7	15	9
P.H.F.	- r	).571	0.667	0.625	0.550	0.563	0.750	=	0.650	0.250	0.563	0.583	0.536	0.750
1 .11.17.		,	0.007	0.020	0.000	0.000	0.730		0.000	0.230	0.505	0.000	0.000	0.730
	4.07	100		DT 400										

### **COUNTER MEASURES INC.**

Location: SANBORN ROAD W-O BAGGETT ROAD City: ELLICOTT

County: EL PASO Direction: EAST/WEST 1889 YORK STREET DENVER,COLORADO 80206 303-333-7409

Site Code: 212908 Station ID: 212908

Start	02-Feb-21	EAS	TBOUND	WE	STBOUNE	) C	ombined	03-Feb	EA	STBOUNE	) WE	STBOUND	) C	ombined
Time	Tue	A.M.	P.M					. Wed	A.N					. P.M.
12:00		0	3	0	0	0	3		0	0	0	1	0	1
12:15		0	1	0	0	0	1		0	2	0	1	0	3
12:30		0	0	0	0	0	0		0	1	0	1	0	2
12:45		0	1	0	1	0	2		0	1	0	3	0	4
01:00		0	0	0	1	0	1		0	1	0	3	0	4
01:15		0	0	0	0	0	0		0	0	Ö	0	0	0
01:30		0	0	0	0	0	0		0	0	0	0	0	0
01:45		0	0	0	0	0	0		0	0	0	1	0	1
02:00		0	2	0	2	0	4		0	0	0	0	0	0
02:15		0	1	0	0	0	1		0	*	0	*	0	*
02:13		0	Ó	0	0	0	Ö		0	*	0	*	0	*
02:45		0	1	0	0	0	1		0	*	0	*	0	*
03:00		0	1	0	0	0	1		0	*	0	*	0	*
03:00		0		0	0		0		0	*	0	*	0	*
			0			0	<b>5</b>		-	*	-	*		*
03:30		0	4	0	1	0			0	*	0	*	0	
03:45		0	2	0	1	0	3		0	*	0	*	0	
04:00		0	2	0	2	0	4		0	*	1		1	*
04:15		0	1	1	0	1	1		0		0	*	0	*
04:30		0	5	0	0	0	5		0	*	1	*	1	*
04:45		0	1	1	1	1	2		0	*	0	*	0	*
05:00		0	1	1	1	1	2		0	*	1	*	1	*
05:15		0	1	0	0	0	1		0	*	1	*	1	*
05:30		0	2	0	0	0	2		0	*	0	*	0	*
05:45		0	1	0	1	0	2		1	*	0	*	1	*
06:00		1	1	2	0	3	1		0	*	1	*	1	*
06:15		0	0	1	1	1	1		0	*	0	*	0	*
06:30		1	1	0	0	1	1		0	*	0	*	0	*
06:45		1	1	0	0	1	1		1	*	0	*	1	*
07:00		0	0	1	0	1	0		1	*	1	*	2	*
07:15		0	0	2	0	2	0		1	*	1	*	2	*
07:30		0	1	0	1	0	2		0	*	2	*	2	*
07:45		0	1	2	0	2	1		0	*	2	*	2	*
08:00		1	0	1	0	2	0		0	*	1	*	1	*
08:15		1	0	1	0	2	0		0	*	1	*	1	*
08:30		0	0	1	0	1	0		0	*	2	*	2	*
08:45		0	0	0	0	0	0		1	*	1	*	2	*
09:00		0	0	1	0	1	0		0	*	3	*	3	*
09:15		0	0	1	0	1	0		1	*	0	*	1	*
09:30		1	0	0	0	1	0		0	*	1	*	1	*
09.30		1	0	0	0	1	0		1	*	1	*	2	*
10:00		0	0	1	0	1	0		0	*	0	*	0	*
10:00		0	1	0	0	0	1		1	*	0	*	1	*
		1							0	*	-	*	1	*
10:30		1	0	0	0	1	0		0	*	1	*	1	
10:45		1	0	1	0	2	0		-	*	0	*	0	·
11:00		1	0	0	0	1	0		0	•	1	•	1	*
11:15		^	0	2	0	3	0		0	•	1	•	1	*
11:30		0	0	0	0	0	0		1	•	0	•	1	*
11:45		0	0	1_	0	1	0		1		0	*	1	*
Total		11	36	21	13	32	49		10	. 5	24	10	34	15
Day Tota			17		34		81			15		34		49
% Total	13.0	6%	44.4%	25.9%	16.0%			2	20.4%	10.2%	49.0%	20.4%		
	40	:30	03:45	07:00	03:15	07:45	03:30	-	06:30	00:15	08:15	00:15	07:00	00:15
Peak	- 10													
Vol.	-	4	10	5	4	7	13	-	3	5	7	8	8	13
	-					7 0.875	13 0.650	-	3 0.750	5 0.625	7 0.583	8 0.667	8 1.000	0.813
Vol.	-	4 000	10 0.500	5	4			-						

### **Levels of Service**



Intersection												
Int Delay, s/veh	1.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL	4	LDIN	VVDL	4	VVDIX	INDL	4	NDIN	ODL	4	ODIN
Traffic Vol, veh/h	4	61	2	0	154	0	15	0	0	0	0	23
Future Vol, veh/h	4	61	2	0	154	0	15	0	0	0	0	23
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	_	-	-	-	-	-	_	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	87	87	87	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	5	73	2	0	177	0	19	0	0	0	0	29
Major/Minor N	Major1		ا	Major2			Minor1			Minor2		
Conflicting Flow All	177	0	0	75	0	0	276	261	74	261	262	177
Stage 1	-	-	-	-	-	-	84	84	-	177	177	-
Stage 2	-	-	-	-	-	-	192	177	-	84	85	-
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	1399	-	-	1524	-	-	676	644	988	692	643	866
Stage 1	-	-	-	-	-	-	924	825	-	825	753	-
Stage 2	-	-	-	-	-	-	810	753	-	924	824	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1399	-	-	1524	-	-	651	641	988	690	640	866
Mov Cap-2 Maneuver	-	-	-	-	-	-	651	641	-	690	640	-
Stage 1	-	-	-	-	-	-	920	822	-	822	753	-
Stage 2	-	-	-	-	-	-	782	753	-	920	821	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0			10.7			9.3		
HCM LOS							В			Α		
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		651	1399	-	-	1524	-	-				
HCM Lane V/C Ratio			0.003	-	-	-	-	-	0.034			
HCM Control Delay (s)		10.7	7.6	0	-	0	-	-	9.3			
HCM Lane LOS		В	Α	Α	-	Α	-	-	Α			
HCM 95th %tile Q(veh)		0.1	0	-	-	0	-	-	0.1			

Intersection						
Int Delay, s/veh	2.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL			WDIX	SBL ₩	ומט
Traffic Vol, veh/h	3	<b>र्स</b> 3	<b>♣</b>	2	<b>T</b>	2
Future Vol, veh/h	3	3	4	2	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control RT Channelized	Free -	Free None	Free	Free None	Stop	Stop None
			-		-	None -
Storage Length	-	-	-	-	0	
Veh in Median Storage		0	0	-	0	-
Grade, %	- 70	0	0	- 70	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	4	5	3	0	3
Major/Minor	Major1	N	Major2	ı	Minor2	
Conflicting Flow All	8	0	-	0	19	7
Stage 1	-	-	_	_	7	-
Stage 2	_	_	_	_	12	_
Critical Hdwy	4.12	_		_	6.42	6.22
Critical Hdwy Stg 1	7.12		_		5.42	0.22
Critical Hdwy Stg 2	_				5.42	_
Follow-up Hdwy	2.218	_	_	-	3.518	
Pot Cap-1 Maneuver	1612	-	-	-	998	1075
	1012	-	-	-	1016	1075
Stage 1	-	-	-	-	1016	-
Stage 2	-	-	-	-	1011	-
Platoon blocked, %	1010	-	-	-	000	4075
Mov Cap-1 Maneuver		-	-	-	996	1075
Mov Cap-2 Maneuver	-	-	-	-	996	-
Stage 1	-	-	-	-	1014	-
Stage 2	-	-	-	-	1011	-
Approach	EB		WB		SB	
HCM Control Delay, s	3.6		0		8.4	
HCM LOS	5.0		U		Α	
I IOIVI LOG					A	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1612	-	-	-	1075
HCM Lane V/C Ratio		0.002	-	-		0.002
HCM Control Delay (s)		7.2	0	-	-	8.4
HCM Lane LOS		Α	Α	-	-	Α
HCM 95th %tile Q(veh	)	0	-	-	-	0

Intersection												
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	10	152	9	0	87	0	7	0	0	0	0	5
Future Vol, veh/h	10	152	9	0	87	0	7	0	0	0	0	5
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	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	83	83	83	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	175	10	0	105	0	9	0	0	0	0	6
Major/Minor	Major1		ľ	Major2			Minor1			Minor2		
Conflicting Flow All	105	0	0	185	0	0	310	307	180	307	312	105
Stage 1	-	-	-	-	-	_	202	202	-	105	105	-
Stage 2	-	-	-	-	-	-	108	105	-	202	207	-
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		3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1486	_	-	1390	_	_	642	607	863	645	603	949
Stage 1	-	-	-	-	-	-	800	734	-	901	808	-
Stage 2	-	_	-	-	-	_	897	808	-	800	731	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1486	-	-	1390	-	-	634	602	863	641	598	949
Mov Cap-2 Maneuver	-	-	-	-	-	-	634	602	-	641	598	-
Stage 1	-	-	-	-	-	-	794	728	-	894	808	-
Stage 2	-	-	-	-	-	-	891	808	-	794	725	-
<b>J</b>												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0			10.8			8.8		
HCM LOS							В			A		
Minor Lane/Major Mvm	nt 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		634	1486	-	-	1390	-	-	949			
HCM Lane V/C Ratio		0.014		_	_	-	_		0.007			
HCM Control Delay (s)		10.8	7.4	0	_	0	_	_	8.8			
HCM Lane LOS		В	Α	A	_	A	_	_	Α			
HCM 95th %tile Q(veh)		0	0	-	_	0	_	_	0			
		J							- 0			

Intersection						
Int Delay, s/veh	5.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL			WDIX	SDL W	אומט
Traffic Vol, veh/h	5	<b>र्स</b> 2	<b>1</b> → 2	0	<b>T</b>	4
Future Vol, veh/h	5	2	2	0	1	4
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
Sign Control RT Channelized	Free -	None	Free -			None
					-	None -
Storage Length	-	-	-	-	0	
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	3	3	0	1	5
Major/Minor	Major1	N	Major2		Minor2	
Conflicting Flow All	3	0	-	0	18	3
Stage 1	- -				3	
	-	-	-	-	15	-
Stage 2			-			
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	- 240
Follow-up Hdwy	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	1619	-	-	-	1000	1081
Stage 1	-	-	-	-	1020	-
Stage 2	-	-	-	-	1008	-
Platoon blocked, %		_	-	-		105
Mov Cap-1 Maneuver	1619	-	-	-	996	1081
Mov Cap-2 Maneuver	-	-	-	-	996	-
Stage 1	-	-	-	-	1016	-
Stage 2	-	-	-	-	1008	-
Annroach	ED		WD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	5.2		0		8.4	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1619		1101		1063
HCM Lane V/C Ratio		0.004	-	-		0.006
HOW LANE V/O RANO		0.004	-	-		
		7 0	0			
HCM Control Delay (s)		7.2	0	-	-	8.4
		7.2 A 0	0 A	- -	-	8.4 A 0

Intersection												
Int Delay, s/veh	1.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	4	61	4	0	154	0	17	0	0	0	0	23
Future Vol, veh/h	4	61	4	0	154	0	17	0	0	0	0	23
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	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	87	87	87	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	5	73	5	0	177	0	22	0	0	0	0	29
Major/Minor N	/lajor1		N	Major2			Minor1			Minor2		
Conflicting Flow All	177	0	0	78	0	0	278	263	76	263	265	177
Stage 1	-	-	-	-	-	_	86	86	-	177	177	_
Stage 2	-	-	-	-	-	-	192	177	-	86	88	-
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	1399	-	-	1520	-	-	674	642	985	690	640	866
Stage 1	-	-	-	-	-	-	922	824	-	825	753	-
Stage 2	-	-	-	-	-	-	810	753	-	922	822	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1399	-	-	1520	-	-	649	639	985	688	637	866
Mov Cap-2 Maneuver	-	-	-	-	-	-	649	639	-	688	637	-
Stage 1	-	-	-	-	-	-	918	821	-	822	753	-
Stage 2	-	-	-	-	-	-	782	753	-	918	819	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0			10.7			9.3		
HCM LOS	<b>V</b>						В			A		
Minor Lane/Major Mvm	+ N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	QRI n1			
Capacity (veh/h)	t I	649	1399			1520						
HCM Lane V/C Ratio		0.034		-	-	1320	-	-	0.034			
HCM Control Delay (s)		10.7	7.6	0	-	0	-	-	9.3			
HCM Lane LOS		10.7 B	7.0 A	A	-	A	-	-	9.3 A			
HCM 95th %tile Q(veh)		0.1	0	- -	-	0	-	-	0.1			
		U. I	U	_		0			0.1			

3.9					
EBL	EBT	WBT	WBR	SBL	SBR
5	3		2		4
		4		0	4
	0	0			0
					Stop
		-			None
_	-	-	-	0	-
e.# -	0	0	-		-
-			_		_
78					78
					2
					5
U	4	J	J	U	J
Major1		Major2			
8	0	-	0	23	7
-	-	-	-	7	-
-	-	-	-	16	-
4.12	-	-	-	6.42	6.22
-	-	-	-	5.42	-
-	-	-	-	5.42	-
2.218	-	-	-	3.518	3.318
1612	-	-	-	993	1075
-	_	_	_		_
-	_	_	-		-
	_	_	_		
1612	_	_	_	989	1075
	_	_			-
	_				_
					_
-		-		1007	
EB		WB		SB	
4.5		0		8.4	
				Α	
	EDI	ГРТ	WDT	WED	ODL 4
nt		ERI	WBI		
		-	-		1075
		-	-	-	0.005
)			-	-	8.4
	Α	Α	-	_	Α
1)	0	/ \			0
	5 5 0 Free 78 2 6 Major1 8 2.218 1612 1612 EB	EBL EBT  5 3 5 3 0 0 0 Free Free - None 0 78 78 2 2 6 4  Major1 N 8 0 4.12 2.218 - 1612	EBL         EBT         WBT           5         3         4           5         3         4           0         0         0           Free         Free         Free           -         None         -           e, # -         0         0           78         78         78           2         2         2           6         4         5    Major1  Major2  8 0	EBL EBT WBT WBR  5 3 4 2 5 3 4 2 0 0 0 0 0 0 Free Free Free Free - None - None 0 0 78 78 78 78 78 2 2 2 2 2 6 4 5 3  Major1 Major2 I  8 0 - 0 4.12 2.218 1612 1612 1612  1612	EBL         EBT         WBT         WBR         SBL           5         3         4         2         0           5         3         4         2         0           0         0         0         0         0           Free         Free         Free         Stop           None         -         None         -           -         0         0         -         0           e, # -         0         0         -         0           78         78         78         78         78           2

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1>		W	
Traffic Vol, veh/h	1	6	9	2	2	0
Future Vol, veh/h	1	6	9	2	2	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	_	-	-	-	0	-
Veh in Median Storage	e.# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	75	75	50	50	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	8	18	4	2	0
IVIVIII( I IOW		U	10			U
Major/Minor I	Major1	N	Major2		Minor2	
Conflicting Flow All	22	0	-	0	30	20
Stage 1	-	-	-	-	20	-
Stage 2	-	-	-	-	10	-
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	_	_	-	984	1058
Stage 1	_	_	_	_	1003	-
Stage 2	-	_	-	_	1013	_
Platoon blocked, %		_	_	_		
Mov Cap-1 Maneuver	1593	_	_	_	983	1058
Mov Cap-2 Maneuver	-	_	_	_	983	-
Stage 1	_	_	_	_	1002	_
Stage 2	_	_			1013	_
Stage 2		_	-	_	1013	_
Approach	EB		WB		SB	
HCM Control Delay, s	1		0		8.7	
HCM LOS					Α	
Minor Long /Maior M		EDI	ГРТ	WDT	MDD	CDL 4
Minor Lane/Major Mvm	IL	EBL	EBT	WBT	WBR	
Capacity (veh/h)		1593	-	-	-	983
HCM Lane V/C Ratio		0.001	-	-		0.002
HCM Control Delay (s)		7.3	0	-	-	8.7
HCM Lane LOS		Α	Α	-	-	A 0
HCM 95th %tile Q(veh)		0				

Intersection												
Int Delay, s/veh	0.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	10	152	10	0	87	0	8	0	0	0	0	5
Future Vol, veh/h	10	152	10	0	87	0	8	0	0	0	0	5
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	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	83	83	83	78	78	78	78	78	78
Heavy Vehicles, %	6	6	6	6	6	6	2	2	2	2	2	2
Mvmt Flow	11	175	11	0	105	0	10	0	0	0	0	6
Major/Minor	Major1		1	Major2			Minor1			Minor2		
Conflicting Flow All	105	0	0	186	0	0	311	308	181	308	313	105
Stage 1	-	_	-	-	-	_	203	203	-	105	105	-
Stage 2	-	-	-	-	-	-	108	105	-	203	208	-
Critical Hdwy	4.16	_	-	4.16	-	-	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	2.254	-	-	2.254	-	-	3.518		3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1462	-	-	1365	-	-	642	606	862	644	602	949
Stage 1	-	-	-	-	-	-	799	733	-	901	808	-
Stage 2	-	-	-	-	-	-	897	808	-	799	730	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1462	-	-	1365	-	-	634	601	862	640	597	949
Mov Cap-2 Maneuver	-	-	-	-	-	-	634	601	-	640	597	-
Stage 1	-	-	-	-	-	-	793	727	-	894	808	-
Stage 2	-	-	-	-	-	-	891	808	-	793	724	-
-												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0			10.8			8.8		
HCM LOS							В			Α		
Minor Lane/Major Mvm	it I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		634	1462	-	-	1365	-	-	949			
HCM Lane V/C Ratio		0.016		-	-	-	-	-	0.007			
HCM Control Delay (s)		10.8	7.5	0	-	0	-	-	8.8			
HCM Lane LOS		В	A	A	-	A	-	-	Α			
HCM 95th %tile Q(veh)		0	0	-	-	0	-	-	0			

Intersection						
Int Delay, s/veh	5.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	7.		¥	
Traffic Vol. veh/h	6	2	2	0	1	5
Future Vol, veh/h	6	2	2	0	1	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	_	-	-	-	0	-
Veh in Median Storage	e.# -	0	0	-	0	-
Grade, %	-,	0	0	_	0	_
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	3	3	0	1	6
		<u> </u>			•	
				_		
	Major1		Major2		Minor2	_
Conflicting Flow All	3	0	-	0	22	3
Stage 1	-	-	-	-	3	-
Stage 2	-	-	-	-	19	-
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	1619	-	-	-	995	1081
Stage 1	-	-	-	-	1020	-
Stage 2	-	-	-	-	1004	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1619	-	-	-	990	1081
Mov Cap-2 Maneuver	-	-	-	-	990	-
Stage 1	-	-	-	-	1015	-
Stage 2	_	_	_	_	1004	-
<b>y</b> -						
			16.5		0.5	
Approach	EB		WB		SB	
HCM Control Delay, s	5.4		0		8.4	
HCM LOS					Α	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR:	SBLn1
Capacity (veh/h)		1619		-		1065
HCM Lane V/C Ratio		0.005	_	_		0.007
HCM Control Delay (s	)	7.2	0	_	_	8.4
HCM Lane LOS	,	Α	A	_	_	Α
HCM 95th %tile Q(veh	1)	0	-	-	_	0
	,					

Intersection						
Int Delay, s/veh	1.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	CDL			WDK		SDK
Lane Configurations	4	ની	f)	4	Y	•
Traffic Vol, veh/h	1	7	6	1	1	2
Future Vol, veh/h	1	7	6	1	1	2
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	9	8	1	1	3
IVIVIII(I IOVV		<b>J</b>	U			0
Major/Minor	Major1	ľ	Major2	ľ	Minor2	
Conflicting Flow All	9	0	-	0	20	9
Stage 1	-	-	_	-	9	-
Stage 2	_	_	_	_	11	_
Critical Hdwy	4.12	_	_	_	6.42	6.22
Critical Hdwy Stg 1		_	_	_	5.42	-
Critical Hdwy Stg 2	_				5.42	_
	2.218	-	-			3.318
Follow-up Hdwy		-	-			
Pot Cap-1 Maneuver	1611	-	-	-	997	1073
Stage 1	-	-	-	-	1014	-
Stage 2	-	-	-	-	1012	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1611	-	-	-	996	1073
Mov Cap-2 Maneuver	-	-	-	-	996	-
Stage 1	-	-	_	-	1013	-
Stage 2	_	_	_	_	1012	_
5 ta ge =						
Approach	EB		WB		SB	
HCM Control Delay, s	0.9		0		8.5	
HCM LOS					Α	
Minor Lane/Major Mvi	mt	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		1611	-	-		1046
HCM Lane V/C Ratio		0.001	-	-	-	0.004
HCM Control Delay (s	s)	7.2	0	-	-	8.5
HCM Lane LOS		Α	Α	-	-	Α
HCM 95th %tile Q(veh	ո)	0	-	-	-	0
7	,					

Intersection												
Int Delay, s/veh	2.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	f)		7	f.			4			4	
Traffic Vol, veh/h	5	75	5	5	225	5	20	5	5	5	5	35
Future Vol, veh/h	5	75	5	5	225	5	20	5	5	5	5	35
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	500	-	-	500	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	87	87	87	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	90	6	6	259	6	26	6	6	6	6	45
Major/Minor I	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	265	0	0	96	0	0	405	382	93	385	382	262
Stage 1	-	-	-	-	-	-	105	105	-	274	274	-
Stage 2	-	-	-	-	-	-	300	277	-	111	108	-
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	1299	-	-	1498	-	-	556	551	964	573	551	777
Stage 1	-	-	-	-	-	-	901	808	-	732	683	-
Stage 2	-	-	-	-	-	-	709	681	-	894	806	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1299	-	-	1498	-	-	516	546	964	560	546	777
Mov Cap-2 Maneuver	-	-	-	-	-	-	516	546	-	560	546	-
Stage 1	-	-	-	-	-	-	896	804	-	728	680	-
Stage 2	-	-	-	-	-	-	659	678	-	877	802	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0.2			11.8			10.5		
HCM LOS							В			В		
Minor Lane/Major Mvm	it I	NBLn1	EBL	EBT	EBR	WBL	WBT	WRR	SBLn1			
Capacity (veh/h)		565	1299	-	-	1498	-	-	713			
HCM Lane V/C Ratio		0.068		<u>-</u>		0.004	_		0.081			
HCM Control Delay (s)		11.8	7.8	-	-	7.4	-	<u>-</u>	10.5			
HCM Lane LOS		В	7.0 A	-	_	7.4 A	_	_	10.5 B			
HCM 95th %tile Q(veh)		0.2	0		-	0	_	-	0.3			
HOW JOHN JOHN (VEII)		U.Z	U	_		U		_	0.5			

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HCM 6th TWSC
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Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ન	1>		¥	
Traffic Vol. veh/h	5	65	70	3	2	3
Future Vol, veh/h	5	65	70	3	2	3
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	83	83	83	83	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	78	84	4	3	4
					•	
				_		
	Major1		Major2		Minor2	
Conflicting Flow All	88	0	-	0	176	86
Stage 1	-	-	-	-	86	-
Stage 2	-	-	-	-	90	-
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	1508	-	-	-	814	973
Stage 1	-	-	-	-	937	-
Stage 2	-	-	-	-	934	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1508	-	-	-	811	973
Mov Cap-2 Maneuver	-	-	-	-	811	-
Stage 1	-	-	-	-	933	-
Stage 2	-	-	-	-	934	-
, and the second						
Δ			14/5		0.5	
Approach	EB		WB		SB	
HCM Control Delay, s	0.5		0		9	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1508	_	_	_	901
HCM Lane V/C Ratio		0.004	_	_		0.007
HCM Control Delay (s)		7.4	0	_	_	9
HCM Lane LOS		A	A	_	_	A
HCM 95th %tile Q(veh)	)	0	-	_	_	0
		•				

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HCM 6th TWSC
Synchro 10 Report
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Intersection												
Int Delay, s/veh	1.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	f)		*	1>			4		<u> </u>	4	<u> </u>
Traffic Vol, veh/h	15	225	15	5	125	5	10	5	5	5	5	10
Future Vol, veh/h	15	225	15	5	125	5	10	5	5	5	5	10
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	500	-	-	500	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	87	87	87	78	78	78	78	78	78
Heavy Vehicles, %	6	6	6	6	6	6	2	2	2	2	2	2
Mvmt Flow	16	245	16	6	144	6	13	6	6	6	6	13
Major/Minor I	Major1		ı	Major2			Minor1			Minor2		
Conflicting Flow All	150	0	0	261	0	0	454	447	253	450	452	147
Stage 1	_	-	-	-	_	-	285	285	-	159	159	-
Stage 2	-	-	-	-	-	-	169	162	-	291	293	-
Critical Hdwy	4.16	-	-	4.16	-	-	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	2.254	-	-	2.254	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1407	-	-	1280	-	-	516	506	786	519	503	900
Stage 1	-	-	-	-	-	-	722	676	-	843	766	-
Stage 2	-	-	-	-	-	-	833	764	-	717	670	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1407	-	-	1280	-	-	497	498	786	503	495	900
Mov Cap-2 Maneuver	-	-	-	-	-	-	497	498	-	503	495	-
Stage 1	-	-	-	-	-	-	714	669	-	834	762	-
Stage 2	-	-	-	-	-	-	810	760	-	696	663	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.3			11.9			10.8		
HCM LOS							В			В		
Minor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBI n1			
Capacity (veh/h)		548	1407	-		1280	-	-	642			
HCM Lane V/C Ratio		0.047		-		0.004	_	<u> </u>	0.04			
HCM Control Delay (s)		11.9	7.6		_	7.8		_				
HCM Lane LOS		В	Α.	_	_	Α.	_	_	В			
HCM 95th %tile Q(veh)		0.1	0	_	_	0	_	_	0.1			
		0.1				- 0			0.1			

Intersection						
Int Delay, s/veh	1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	₩ <b>₽</b>	WDI	₩.	אופט
Traffic Vol, veh/h	7	65	60	1	3	6
Future Vol, veh/h	7	65	60	1	3	6
Conflicting Peds, #/hr	0	0.0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		- Stop	None
Storage Length	_	-	_	-	0	INOHE
Veh in Median Storage	. # -	0	0	_	0	
		0	0		0	
Grade, %	- 02			- 02		- 70
Peak Hour Factor	83	83	83	83	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	78	72	1	4	8
Major/Minor I	Major1	N	Major2	ı	Minor2	
Conflicting Flow All	73	0	- -	0	167	73
Stage 1	-	-	_	-	73	-
Stage 2	_	_	_	_	94	_
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	1527	_		_	823	989
•		-	-		950	
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	930	-
Platoon blocked, %	4507	-	-	-	040	000
Mov Cap-1 Maneuver	1527	-	-	-	819	989
Mov Cap-2 Maneuver	-	-	-	-	819	-
Stage 1	-	-	-	-	945	-
Stage 2	-	-	-	-	930	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.7		0		8.9	
HCM LOS	0.7		U			
I IOIVI LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBL <sub>n1</sub>
Capacity (veh/h)		1527	-	-	-	925
HCM Lane V/C Ratio		0.006	-	-	-	0.012
HCM Control Delay (s)		7.4	0	-	-	8.9
HCM Lane LOS		Α	Α	-	-	Α
HCM 95th %tile Q(veh)	)	0	-	-	-	0

Intersection												
Int Delay, s/veh	2.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1		۲	1			4			4	
Traffic Vol, veh/h	5	75	10	5	225	5	26	5	5	5	5	35
Future Vol, veh/h	5	75	10	5	225	5	26	5	5	5	5	35
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	500	-	-	500	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	87	87	87	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	90	12	6	259	6	33	6	6	6	6	45
Major/Minor N	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	265	0	0	102	0	0	408	385	96	388	388	262
Stage 1	-	_	-	-	-	-	108	108	-	274	274	
Stage 2	-	-	-	-	-	-	300	277	-	114	114	-
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	1299	-	-	1490	-	-	554	549	960	571	547	777
Stage 1	-	-	-	-	-	-	897	806	-	732	683	-
Stage 2	-	-	-	-	-	-	709	681	-	891	801	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1299	-	-	1490	-	-	514	544	960	558	542	777
Mov Cap-2 Maneuver	-	-	-	-	-	-	514	544	-	558	542	-
Stage 1	-	-	-	-	-	-	893	802	-	728	680	-
Stage 2	-	-	-	-	-	-	659	678	-	874	797	-
Ü												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.2			12.1			10.5		
HCM LOS							В			В		
Minor Lane/Major Mvm	t 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		554	1299	-	-	1490	-	-	712			
HCM Lane V/C Ratio		0.083		_		0.004	_		0.081			
HCM Control Delay (s)		12.1	7.8	-	-	7.4	-	-	10.5			
HCM Lane LOS		В.	A	_	_	A	-	-	В			
HCM 95th %tile Q(veh)		0.3	0	-	_	0	-	-	0.3			
									- 0.5			

1.1					
EBL	EBT	WBT	WBR	SBL	SBR
10			1		8
					8
					0
					Stop
-					None
_	-	-	-	0	-
e.# -	0	0	_		_
-			_		_
83					78
					2
					10
12	70	04	'	J	10
Major1	N	Major2	1	Minor2	
85	0	-	0	187	85
-	-	-	-	85	-
-	-	-	-	102	-
4.12	-	-	-	6.42	6.22
-	-	-	-	5.42	-
-	-	-	-	5.42	-
2.218	-	-	-	3.518	3.318
	-	-	-	802	974
-	-	_	-		-
-	_	-	-		_
	_	_	_	<b>V</b>	
1512	_	_	_	796	974
	_	_			-
	_				_
					_
_		-		JZZ	
EB		WB		SB	
1		0		8.9	
				Α	
-4	EDI	CDT	MOT	MPD	ODL 4
nτ		FRI	WRI	WBK:	
		-	-	-	932
		-	-	-	0.014
)			-	-	8.9
					Λ
1)	A 0	Α	-	-	A 0
	EBL  10 10 0 Free 83 2 12  Major1 85 4.12 - 2.218 1512 - 1512 EB	EBL   EBT	EBL EBT WBT  10 65 70 10 65 70 0 0 0 0 Free Free Free - None e, # - 0 0 83 83 83 2 2 2 2 12 78 84  Major1 Major2  85 0 4.12 2.218 1512 1512  1512	EBL EBT WBT WBR  10 65 70 1 10 65 70 1 0 0 0 0 0 Free Free Free Free - None - None 0 0 - 83 83 83 83 2 2 2 2 2 12 78 84 1  Major1 Major2    85 0 - 0 1512 1512	EBL         EBT         WBT         WBR         SBL           10         65         70         1         2           10         65         70         1         2           0         0         0         0         0           Free         Free         Free         Stop           None         -         None         -           -         0         0         -         0           e, # -         0         0         -         0           e, # -         0         0         -         0           83         83         83         83         78           2         2         2         2         2         2           12         78         84         1         3         3           Major1         Major2         Minor2         Minor2         85         0         -         0         187         -         -         102         4.12         -         -         85         -         -         102         4.12         -         -         6.42         -         -         5.42         2.218         -         -         5.42

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1>		W	
Traffic Vol. veh/h	2	61	73	5	5	1
Future Vol, veh/h	2	61	73	5	5	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	83	83	83	83	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	73	88	6	6	1
	_			_	*	-
NA ' (NA)			4 : 0			
	Major1		Major2		Minor2	
Conflicting Flow All	94	0	-	0	168	91
Stage 1	-	-	-	-	91	-
Stage 2	-	-	-	-	77	-
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	1500	-	-	-	822	967
Stage 1	-	-	-	-	933	-
Stage 2	-	-	-	-	946	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1500	-	-	-	821	967
Mov Cap-2 Maneuver	-	-	-	-	821	-
Stage 1	-	_	-	-	932	-
Stage 2	-	-	-	-	946	-
<u> </u>						
A			14/5		0.5	
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		9.3	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1500	_	_	-	842
HCM Lane V/C Ratio		0.002	_	_	_	0.009
HCM Control Delay (s)		7.4	0	_	_	9.3
HCM Lane LOS		Α	A	_	_	A
HCM 95th %tile Q(veh)	)	0	_	_	_	0

Intersection
Int Delay, s/veh 1.6
Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBF
Lane Configurations 7 1 7 4 4
Traffic Vol, veh/h 15 225 18 5 125 5 13 5 5 5 5 10
Future Vol, veh/h 15 225 18 5 125 5 13 5 5 5 5 10
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
Storage Length 500 500
Veh in Median Storage, # - 0 0 0
Grade, % - 0 0 0
Peak Hour Factor 92 92 92 83 83 83 78 78 78 78 78 78
Heavy Vehicles, % 6 6 6 6 6 6 2 2 2 2 2 2
Mvmt Flow 16 245 20 6 151 6 17 6 6 6 6 13
Major/Minor Major1 Major2 Minor1 Minor2
Conflicting Flow All 157 0 0 265 0 0 463 456 255 459 463 154
Stage 1 287 287 - 166 166
Stage 2 176 169 - 293 297
Critical Hdwy 4.16 4.16 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 2.254 2.254 3.518 4.018 3.318 3.518 4.018 3.318
Pot Cap-1 Maneuver 1399 1276 509 501 784 512 496 892
Stage 1 720 674 - 836 761
Stage 2 826 759 - 715 668
Platoon blocked, %
Mov Cap-1 Maneuver 1399 1276 491 493 784 497 488 892
Mov Cap-2 Maneuver 491 493 - 497 488 Stage 1 712 667 - 827 757
Stage 2 803 755 - 694 661
A LID TO THE TOTAL
Approach EB WB NB SB
HCM Control Delay, s 0.4 0.3 12.1 10.9
HCM LOS B B
Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1
Capacity (veh/h) 535 1399 1276 635
HCM Lane V/C Ratio 0.055 0.012 0.005 0.04
HCM Control Delay (s) 12.1 7.6 7.8 10.9
HCM Lane LOS B A A B
HCM 95th %tile Q(veh) 0.2 0 0 0.1

Intersection						
Int Delay, s/veh	1.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	1	WDIX	¥	ODIN
Traffic Vol, veh/h	9	65	60	1	3	8
Future Vol, veh/h	9	65	60	1	3	8
Conflicting Peds, #/hr	0	03	00	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	Stop -	None
Storage Length	_	-	_	-	0	NONE
Veh in Median Storage,	.# -	0	0	_	0	_
Grade, %	,# -	0	0	-	0	-
Peak Hour Factor	83	83	83	83	78	78
			2			2
Heavy Vehicles, %	2	2		2	2	
Mvmt Flow	11	78	72	1	4	10
Major/Minor M	/lajor1	N	Major2		Minor2	
Conflicting Flow All	73	0	-	0	173	73
Stage 1	-	-	_	-	73	-
Stage 2	_	_	_	_	100	_
Critical Hdwy	4.12	_	_	_	6.42	6.22
Critical Hdwy Stg 1	T. 12	_	_	_	5.42	0.22
Critical Hdwy Stg 2	_	_	_		5.42	_
	2.218	_	_		3.518	
	1527	_	-		817	989
Pot Cap-1 Maneuver		-	-	-	950	
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	924	-
Platoon blocked, %	4507	-	-	-	040	000
Mov Cap-1 Maneuver	1527	-	-	-	810	989
Mov Cap-2 Maneuver	-	-	-	-	810	-
Stage 1	-	-	-	-	942	-
Stage 2	-	-	-	-	924	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.9		0		8.9	
HCM LOS	0.0				A	
					, , , , , , , , , , , , , , , , , , ,	
TICIVI LOS						
Minor Lane/Major Mvmt	t	EBL	EBT	WBT	WBR	
Minor Lane/Major Mvmt Capacity (veh/h)	t	1527	EBT -	WBT -	-	933
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	t	1527 0.007	-	WBT - -	-	933 0.015
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	t	1527 0.007 7.4	- - 0	-	-	933 0.015 8.9
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		1527 0.007	-	-	- -	933 0.015

Intersection						
Int Delay, s/veh	0.5					
		EDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	4	4	<b>1</b>	0	Y	
Traffic Vol, veh/h	1	68	60	2	2	5
Future Vol, veh/h	1	68	60	2	2	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	-	-	-	-	0	-
Veh in Median Storage,		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	83	83	83	83	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	82	72	2	3	6
Major/Minor N	1ajor1	N	Major2	P	Minor2	
Conflicting Flow All	74	0			157	73
			-	0		
Stage 1	-	-	-	-	73	-
Stage 2	4.40	-	-	-	84	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
	2.218	-	-	-		3.318
	1526	-	-	-	834	989
Stage 1	-	-	-	-	950	-
Stage 2	-	-	-	-	939	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1526	-	-	-	833	989
Mov Cap-2 Maneuver	-	-	-	-	833	-
Stage 1	-	-	-	-	949	-
Stage 2	_	-	_	_	939	_
<b>-</b> -						
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		8.9	
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SRI n1
		1526	<u> </u>	-	- VVDIC	939
Canacity (yoh/h)					-	0.01
Capacity (veh/h)		በ በበ4				U.U I
HCM Lane V/C Ratio		0.001	-	-		
HCM Lane V/C Ratio HCM Control Delay (s)		7.4	0	-	-	8.9
HCM Lane V/C Ratio						

### Appendix A

Pueblo County Pit Trip Generation Data



Hourly	Period	Pueblo Pit Data - Average Number of Entering Trucks							
Start Time	End Time	Average	July	August					
5:00	6:00	1.3	1.6	0.9					
6:00	7:00	2.1	2.1	2.2					
7:00	8:00	2.0	1.9	2.1					
8:00	9:00	1.1	0.6	1.6					
9:00	10:00	1.9	1.4	2.3					
10:00	11:00	0.8	0.6	1.1					
11:00	12:00	2.0	1.1	2.8					
12:00	13:00	1.1	0.9	1.2					
13:00	14:00	2.1	1.7	2.4					
14:00	15:00	0.8	0.6	1.0					

Hourly Period		Pueblo Pit Data - Average Number of Trucks Entering and Exiting		
Start Time	End Time	Average	July	August
5:00	6:00	2.6	3.3	1.9
6:00	7:00	4.3	4.1	4.4
7:00	8:00	3.9	3.8	4.1
8:00	9:00	2.2	1.2	3.2
9:00	10:00	3.7	2.7	4.7
10:00	11:00	1.7	1.2	2.1
11:00	12:00	3.9	2.2	5.6
12:00	13:00	2.1	1.8	2.4
13:00	14:00	4.2	3.4	4.9
14:00	15:00	1.7	1.3	2.0

Hourl	y Period	Pueblo Pit Data - Average Number of Entering Trucks		
Start	End			
Time	Time			
5:00	6:00	1		
6:00	7:00	2		
7:00	8:00	2		
8:00	9:00	1		
9:00	10:00	2		
10:00	11:00	1		
11:00	12:00	2		
12:00	13:00	1		
13:00	14:00	2		
14:00	15:00	1		
Daily Averag	ge July & Aug.	15		
*Pueblo Actual Recorded Data				

Note: These are just data tables. This table is not the same as Table 1 in the report

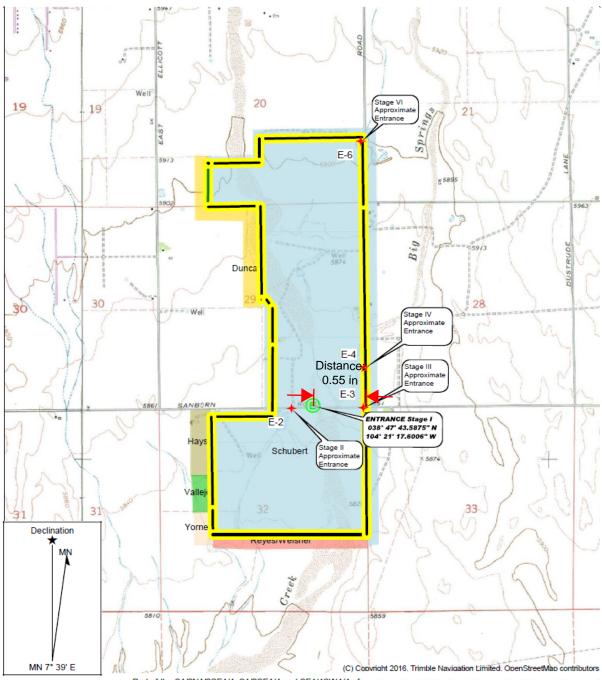
# **Access Exhibit by Stage**





RPM, Inc.

#### Vicinity Map:



Date: 03/03/20 Scale: 1 inch = 2,000 ft.

Part of the S1/2N1/2SE1/4, S1/2SE1/4, and SE1/4SW1/4 of Quad. Name: BIG SPRINGS Section 20, and The E1/2E1/2 and NW1/4NE1/4 and parts RANCH of the SW1/4NE1/4, SW1/4SE1/4, and NW1/4SE1/4 of Section 29 and The E1/2NE1/4, SW1/NE1/4, & SE1/4NW1/4, and parts of the NW1/4NE1/4, & SE1/4NW1/4, and parts of the NW1/4NE1/4 & NE1/4NW1/4, Section 32, Township 14 South, Range 62 West, 6th P.M. El Paso County, Colorado Containing 733.7 acres more or less.

**ELLICOTT SAND AND GRAVEL LLC** SCHUBERT RANCH SAND RESOURCE MAP EXHIBIT B - VICINITY MAP