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## Westwood

TRAFFIC STUDY

# **Fountain Wind Project**

Shasta County, California March 1, 2024



**Prepared For:** 



## Traffic Study

# **Fountain Wind Project**

Shasta County, California Project Number: 0023714.00

Date: 3/1/2024

**Prepared for:** 

ConnectGEN

Prepared by:



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#### 1.0 INTRODUCTION

The Fountain Wind Project is proposed as a 205 MW wind project consisting of 48 wind turbines with associated access roads, collection system, meteorological (MET) towers, operations and maintenance facility (O&M), staging yards, substation, and interconnection. The construction of the Fountain Wind Project will generally require conventional construction worker personal vehicles, logging trucks, aggregate dump trucks, concrete ready-mix trucks, single unit and semi-tractor trailer trucks, water trucks, crawler cranes, and a limited number of specialized transportation vehicles for the oversize/overweight vehicles associated with the delivery of wind turbine components and substation main power transformers (MPTs).

The scope of this report is to determine the total number of vehicles entering the project site from public roads and to calculate the approximate peak hourly traffic entering the site from public roads.

This report also contains responses to comments made by the California Energy Commission (CEC). A spreadsheet containing point-by-point responses to CEC comments is contained in **Appendix H**.

This report has been revised to account for the updated water and concrete/aggregate needs for the Fountain Wind Project. It is assumed that all of the project water will be delivered to the site from existing resources in either Burney, California, or Redding, California. For the purposes of this assessment, it is assumed that water will be delivered over a 50-mile distance from Redding, California by trucks carrying 4,000 gallons each. In order to analyze a reasonable worst-case scenario, it is assumed in this report that concrete will be delivered to the site during the construction phase. No concrete batching will occur on site. It is also assumed that three 5,000-gallon water tanks that will be drained and filled annually on-site during operations.

#### 2.0 PROJECT ACCESS

Traffic entering the project site is composed of commuter trips for construction workers and delivery trips for materials and equipment. Materials and equipment deliveries include aggregate, concrete, and water, as well as turbines, electrical equipment and cables, and items such as reinforcing steel and forms for concrete foundations.

All traffic will reach the site using State Route (SR) 299 (see **Exhibit 1**). Deliveries of manufactured components (e.g., turbine components and turbine blades) will likely originate from the east and travel from Reno, Nevada to the site via US 395 and SR 299. These deliveries would be scheduled to avoid the peak hours of traffic on SR 299 and the scheduled first trip of the westbound Burney Express bus departing Burney at 5:50 am and arriving in Redding at 7:15 am (see **Appendix A**).

Locally sourced aggregate will likely come from Burney, located approximately 6 miles to the east of the project site, or from pits and quarries east of Burney. As a worst-case scenario assumption, all water supply and batched concrete will originate from Redding, located approximately 50 miles to the west. Project workers will most likely commute from towns located both to the east and to the west of the project. The Burney Express does not appear to be a convenient option for commuters (see **Appendix A**). Redding is the largest town in the region. Other towns west of the project are very small and not likely to be able to accommodate many project workers. Several small towns including Burney, Fall River Mills, and McArthur are located east of the project and may also accommodate project workers. Based on the relative size of towns located to the east and west of the project site, this study assumes that 60 percent of the commuting traffic travels to the site from the west and that 40 percent travels to the site from the east on SR 299. **Exhibits 2 and 3** illustrate the assumed regional and local delivery routes for manufactured components, turbine blades, and building materials and the anticipated commuter routes. SR 299 is a Terminal Access (STAA) truck route (see **Appendix A**).

Two access points are proposed to coincide with existing logging roads at the intersections with SR 299 (see **Exhibit 1**). The West Access is proposed along a road called G Line, which intersects with SR 299 approximately 37 miles east of the interchange with I-5 in Redding. There is a widened shoulder at this intersection, but no turn lanes.

The East Access is approximately eight miles west of Burney. This access is proposed along an existing and unnamed logging road that provides access to the area south of SR 299. As with the other access points, there is a widened shoulder at this access, but no turn lanes.

As points of reference, the Shasta Green lumber plant lies along SR 299 approximately 4.4 miles east of the East Access, and the Sierra Pacific Industries lumber plant lies another 1.2 miles to the east of that. The Shasta Green plant has both eastbound and westbound turn lanes along SR 299. The Sierra Pacific Industries plant has no turn lanes.

The nearby Hatchet Ridge Wind Farm accesses SR 299 at Bunch Grass Lookout Road. This access is approximately one mile east of the East Access for the Fountain Wind Project. Both eastbound and westbound turn lanes serve the Hatchet Ridge access. Bunch Grass Lookout Road is located at a four-way intersection on SR 299, with Terry Mill Road accessing to the south.

#### 3.0 EXISTING TRAFFIC CONDITIONS

According to the Caltrans listing of Annual Average Daily Traffic (AADT) volumes, the latest volumes available were for the year 2021 and are used (see **Appendix A**), urban centers on each end of SR 229 record the highest traffic volumes, then traffic volumes diminish significantly in the rural and mountainous areas in between. There are nine daily and peak

hour count locations listed between I-5 in Redding, California, and Plumas Street in Burney, California<sup>1</sup>.

The highest existing two-way AADT on SR 299 is 18,800 vehicles per day at I-5 in Redding where the highway has a four-lane freeway alignment. The highest existing two-way peak hour volume is 2,200 vehicles per hour. The capacity of a lane along a freeway segment is calculated as a function of the Free-Flow Speed (FFS), which is affected by the percentage of heavy trucks traveling along the segment (see **Appendix A**), the average grade of the segment (see **Appendix A**), and either the observed free-flow speed or the average number of access points per mile within the segment.

The two access roads for the Fountain Wind Project are located within the segment of SR 299 between Big Bend Road and Tamarack Road. Volume, speed, and classification counts were collected at two locations along this segment on April 4, April 5, and April 6, 2023 (see **Appendix B**). The observed AADT along this segment was 1.55 times less than the 2021 Caltrans AADT collected along this segment. Additionally, the observed truck percentage along this segment was 1.4 times higher than the 2021 Caltrans observed truck percentage.

Roadway segment traffic volume and capacity information is summarized in **Table 1.1**. Roadway segment geometric and general crash information (see **Appendix C**) are summarized in **Table 1.2** and **Table 1.3**. To facilitate statewide crash averages for similar facilities in California, crash comparisons were initially performed for the most recent year, 2022. However, due to the COVID-19 pandemic, Westwood expanded crash data analysis to include the years 2018, 2019, 2020, 2021, and 2022 to ensure any pandemic outliers did not skew data analysis. To include the expanded data set, **Table 1.2** was updated and **Table 1.3** was added to reflect additional crash analysis within the boundaries of the project site commuter and delivery routes, in conjunction with statewide data (see **Appendix C**). The crash rates along the roadway segments of SR 299 are less than the statewide averages for similar 4-lane divided and 2/3-lane facilities.

Specific crash information pertaining to primary crash factor (PCF) violation, set forth by the Transportation Injury Mapping System (TIMS) data tool is summarized in **Table 1.4**. Of the 81 crashes observed along SR-299, of which 7 were fatal crashes, 40% had an "Improper Turning" Primary Crash Factor (PCF). For fatal crashes, the predominant PCF, comprising of 43% of all fatal crashes, was "Improper Turning", 75% of all crashes occurred under daylight conditions, and 99% of crashes occurred on roads with "No Unusual Conditions". Based on these results, the crashes observed along SR-299 appear to be due to driver behavior instead of roadway characteristics. Assorted conditions of the studied crashes are included in **Tables 1.5** through **Tables 1.12**.

<sup>&</sup>lt;sup>1</sup> CalTrans Traffic Census Program.

Roadway capacity calculations are included in **Appendix D**. Roadway capacity analysis was performed with Highway Capacity Software (HCS) for the pre-construction, construction, and post-construction scenarios. Traffic data collected by Caltrans in 2021 and roadway characteristics observed from desktop review (i.e., speed limit, number and width of lanes, etc.) were used to calculate roadway capacity. The roadway segments that are affected by project traffic are anticipated to have sufficient capacity for construction demand and post-construction demand.

							Tabl	le 1.1 -	Roady	vay Se	gment	t Traff	ic Info	rmati	on Su	mmar	y									
Segment Number	Road Name	Location	Milepost (From- To)		rans AADT -Way		bserved ADT		rans <u>Peak</u> wo-Way		erved <u>Peak</u> our		ction Peak our		struction Hour	Н	Heavy Vehicles		Capacity	Capacity pc/h/ln		struction er than C?	Constru LOS Bette	er than C?	Post-Construction  LOS Better than C?  (D/C) f	
				Ahead	Back	EB	WB	EB (Ahead)	EB (Back)	EB	WB	EB	WB	EB	WB	(%)	SUT	TT	EB	WB	EB	WB	EB	WB	EB	WB
0		I-5 Junction (Redding)	24.8																							
1		I-5 to Hawley Road	24.9-25.5	10800	18800			575°	1100 <sup>c</sup>			666 <sup>e</sup>	1160 <sup>e</sup>	583 <sup>e</sup>	1108 <sup>e</sup>	4.73	17	83	2006	2006	(YES)-A 0.16	(YES)-B 0.31	(YES)-A 0.19	(YES)-B 0.33	(YES)-A 0.16	(YES)-B 0.31
2		Hawley Road to Old Oregon Trail	25.5 -27.2	9500	10800			475°	575°			566 <sup>e</sup>	635 <sup>e</sup>	483 <sup>e</sup>	583 <sup>e</sup>	3.76	23	77	1998	2006	(YES)-A	(YES)-A 0.16	(YES)-A 0.16	(YES)-A 0.18	(YES)-A	(YES)-A 0.16
3		Old Oregon Trail to Deschutes Road	27.2-31.5	4750	7700			260°	455 <sup>°</sup>			351 <sup>e</sup>	515 <sup>e</sup>	268 <sup>e</sup>	463 <sup>e</sup>	3.76ª			1700	1700	0.13 (YES)-A 0.16	(YES)-B 0.28	(YES)-B 0.22	(YES)-C 0.32	0.14 (YES)-A 0.17	(YES)-C 0.29
4		Deschutes Road to Terry Mill Road	31.5-53.3	3950	3900			130°	130°			221 <sup>e</sup>	190 <sup>e</sup>	138 <sup>e</sup>	138 <sup>e</sup>	14.9 <sup>a</sup>			1400	1400	(YES)-A 0.1	(YES)-A 0.1	(YES)-A 0.17	(YES)-A 0.14	(YES)-A 0.1	(YES)-A 0.1
5		Terry Mill Road to Big Bend Road	53.5-60.1	3350	3550			135°	135°			226 <sup>e</sup>	195 <sup>e</sup>	143 <sup>e</sup>	143 <sup>e</sup>	14.9 <sup>a</sup>			1700	1700	(YES)-A 0.08	(YES)-A 0.08	(YES)-A 0.14	(YES)-A 0.12	(YES)-A	(YES)-A
6	CA-299 E	Big Bend Road to Site Entrance 1	60.1-62.3	3350 <sup>a</sup>	3550 <sup>a</sup>	1275 <sup>b</sup>	1255 <sup>b</sup>	168 <sup>a&amp;c&amp;g</sup>	168 <sup>a&amp;c&amp;g</sup>	138 <sup>b&amp;d</sup>	133 <sup>b&amp;d</sup>	259 <sup>e</sup>	228 <sup>e</sup>	176 <sup>e</sup>	176 <sup>e</sup>	31 <sup>b</sup>			1700	1700	(YES)-A	(YES)-A	(YES)-B	(YES)-A	(YES)-A	(YES)-A
7		Site Entrance 1 to Site Entrance 2	62.3-67.3	3250 <sup>a</sup>	3350 <sup>a</sup>	1269 <sup>a</sup>	1259 <sup>a</sup>	168 <sup>a&amp;c&amp;g</sup>	168 <sup>a&amp;c&amp;g</sup>	143 <sup>a&amp;b&amp;d</sup>	133 <sup>a&amp;b&amp;d</sup>	259 <sup>e</sup>	228 <sup>e</sup>	176 <sup>e</sup>	176 <sup>e</sup>	31 <sup>b</sup>			1100	1100	(YES)-A 0.16	(YES)-A 0.16	(YES)-A 0.25	(YES)-A	(YES)-A	(YES)-A 0.17
8		Site Entrance 2 to Tamarack Road	67.3 -73.1	3150	3150	1263 <sup>b</sup>	1263 <sup>b</sup>	200°	200°	143 <sup>b&amp;d</sup>	119 <sup>b&amp;d</sup>	291 <sup>e</sup>	260 <sup>e</sup>	208 <sup>e</sup>	208 <sup>e</sup>	$30^{\rm b}$			1100	1700	(YES)-A 0.19	(YES)-A 0.13	(YES)-A 0.28	(YES)-B	(YES)-A	(YES)-A 0.13
9		Tamarack Road to Elm Street	73.1-74.5	3600	2400			180°	185 <sup>c</sup>			271 <sup>e</sup>	245 <sup>e</sup>	188 <sup>e</sup>	193 <sup>e</sup>	17.5			1700	1700	(YES)-A 0.11	(YES)-A 0.12	(YES)-A 0.17	(YES)-A 0.15	(YES)-A 0.12	(YES)-A 0.12
10		Elm Street to Plumas Street (Burney)	74.5-75.0	8200	3600			435 <sup>c</sup>	180 <sup>c</sup>			526 <sup>e</sup>	240 <sup>e</sup>	443 <sup>e</sup>	188 <sup>e</sup>	19			1700	1700	(YES)-C	(YES)-A 0.11	(YES)-C 0.33	(YES)-A 0.15	(YES)-C 0.28	(YES)-A 0.12

**Table Notes:** 

(a) - Assumed Value from Neighboring Segment. Segment 7 volumes are averages.

(b) - Observed Value from counts performed on April 4, 5, and 6 of 2023

(c) - Numbers listed in Appendix A were representatives of two-way traffic. These Numbers are divided by two under the assumption of equal traffic in each direction.

(d) - Peak Hour Count from QC - Were Adjusted using a correction factor of 1.55

(e) - Peak hour analysis used the highest AM or PM Volumes.

(f) - Demand over Capacity Ratio

(g) - Reference values only, not used for peak hour construction volumes analysis

						Tal	ble 1.2 -	Roadwa	ay Segme	ent Geo	metric	and Crasl	h Infor	mation					
Segment Number	Road Name	Location	Milepost (From- To)	Length (mi)	Surface / Condition	Elevation Start (ft)	Elevation End (ft)	Eastbound Average Grade	Westbound Average Grade	Lane Width (ft)	Shoulder Width (ft)	Number of Directional Travel Lanes	Passing Zones	Roadway Functional Classification	Passing Zones	Average Access Points per Mile	Truck Route Designation	Weight and Load Limitations	Posted Speed Limit
0		I-5 Junction (Redding)	24.8			640													
1		I-5 to Hawley Road	24.9 - 25.5	0.6		<u>641</u>	<u>628</u>	-0.41	0.41			2		Principal Arterial		0			
2		Hawley Road to Old Oregon Trail	25.5 -27.2	1.7		628	<u>621</u>	-0.08	0.08				n/a			0			
3		Old Oregon Trail to Deschutes Road	27.2 - 31.5	4.3		621	<u>539</u>	-0.36	0.36				Passing Zones		Passing Zones	8			
4		Deschutes Road to Terry Mill Road	31.5 - 53.3	21.8		539	<u>2092</u>	1.35	-1.35				Passing Lanes		Passing Lanes	4	Terminal Access / STAA Route		
5	CA-299 E	Terry Mill Road to Big Bend Road	53.5 - 60.1	6.8	Asphalt / Good	2092	<u>3128</u>	2.89	-2.89	12	6		Passing Lanes EB only		Passing Lanes EB only	6		<u>80000 lb Max</u>	55
6		Big Bend Road to Site Entrance 1	60.1 - 62.3	2.3	Good	3128	<u>3640</u>	4.22	-4.22			1	Passing Zones	Minor Arterial	Passing Zones	3	STAA ROULE		
7		Site Entrance 1 to Site Entrance 2	62.3 - 67.3	4.9		3640	<u>4215</u>	2.22	-2.22			1	Passing Lanes	Millor Arterial	Passing Lanes	2			
8		Site Entrance 2 to Tamarack Road	67.3 -73.1	5.8		4215	<u>3209</u>	-3.29	3.29				Passing Lanes EB only		Passing Lanes EB 2 only				
9		Tamarack Road to Elm Street	73.1 - 74.5	1.4		3209	<u>3189</u>	-0.27	0.27				Passing Zones		Passing Zones	5			
10		Elm Street to Plumas Street (Burney)		0.5		3189	<u>3125</u>	-2.42	2.42				Constricted		Constricted	22			

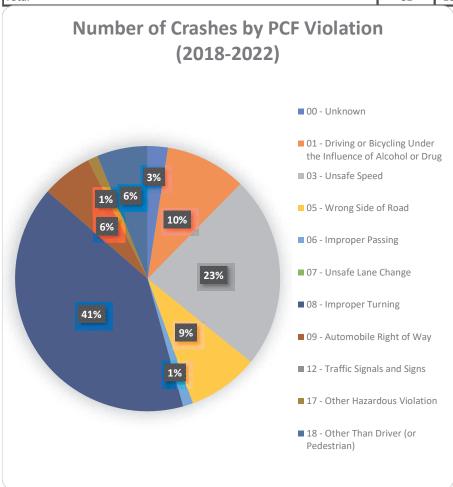
												Table 1.3 -	Roadway Se	gment Geometric an	d Crash (	Collision	Rates									
												5	SR-299 (TIM	IS Tool- UC Be	rkeley)	5	al 2 and 3 Ln -Yr Rates 018-2022)	Urban 2 and 3 Ln 5-Yr Rates (2018-2022)		Statewide 5-Yr Rates (2018-2022)						
Segment Number	Road Name	Location	Milepost (From- To)	Length (mi)	2020 Caltrans Ahead AADT 2wy	2020 Caltrans Back AADT 2wy	Ahead MVM	Back MVM	Total MVM	Number of Directional Travel Lanes	Passing Zones	Roadway Functional Classification	Passing Zones	Average Access Points per Mile	Truck Route Designation	Weight and Load Limitations	Number of Crashes 2018- 2022	Number of Fatal Crashes 2018- 2022	Crash Total per MVM	Fatal+Injury per MVM	Crash Total per MVM	Fatal+Injury per MVM	Crash Total per MVM	Fatal+Injury per MVM	Crash Total per MVM	Fatal+Injury per MVM
0		I-5 Junction (Redding)	24.8																							
1 *		I-5 to Hawley Road	24.9 - 25.5	0.6	10800	18800	2.3652	4.1172	6.4824	2	n/a	Principal Arterial		0			6	0	0.93	0.00	-	-	1.13	0.56	1.05	0.5
2 *		Hawley Road to Old Oregon Trail	25.5 -27.2	1.7	9500	10800	5.89475	6.7014	12.59615					0			2	0	0.16	0.00	-	-	1.13	0.56	1.05	0.5
3 **		Old Oregon Trail to Deschutes Road	27.2 - 31.5	4.3	4750	7700	7.455125	12.08515	19.540275		Passing Zones		Passing Zones	8			25	0	1.28	0.00	1.03	0.46	-	-	1.07	0.47
4 **		Deschutes Road to Terry Mill Road	31.5 - 53.3	21.8	3950	3900	31.43015	31.0323	62.46245		Passing Lanes		Passing Lanes	4			70	6	1.12	0.10	1.03	0.46	-	-	1.07	0.47
5 **	CA-299 E	Terry Mill Road to Big Bend Road	53.5 - 60.1	6.8	3350	3550	8.3147	8.8111	17.1258		Passing Lanes EB only		Passing Lanes EB only	6	Terminal Access /	80000 lb <u>Max</u>	8	0	0.47	0.00	1.03	0.46	-	-	1.07	0.47
6 **		Big Bend Road to Site Entrance 1	60.1 - 62.3	2.3	3350 <sup>a</sup>	3550 <sup>a</sup>	2.812325	2.980225	5.79255	1	Passing Zones	Minor Arterial	Passing Zones	3	STAA Route		0	0	0.00	0.00	1.03	0.46	-	-	1.07	0.47
7**		Site Entrance 1 to Site Entrance 2	62.3 - 67.3	4.9	3250 <sup>a</sup>	3350 <sup>a</sup>	5.812625	5.991475	11.8041		Passing Lanes		Passing Lanes	2			8	0	0.68	0.00	1.03	0.46	-	-	1.07	0.47
8 **		Site Entrance 2 to Tamarack Road	67.3 -73.1	5.8	3150	3150	6.66855	6.66855	13.3371		Passing Lanes EB only		Passing Lanes EB only	2			8	0	0.60	0.00	1.03	0.46	-	-	1.07	0.47
9*		Tamarack Road to Elm Street	73.1 - 74.5	1.4	3600	2400	1.8396	1.2264	3.066		Passing Zones		Passing Zones	5			5	О	1.63	0.00	-	-	1.20	0.52	1.07	0.47
10 *		Elm Street to Plumas Street (Burney)	74.5 - 75.0	0.5	8200	3600	1.4965	0.657	2.1535		Constricte d		Constricted	22			7	0	3.25	0.00	-	-	1.20	0.52	1.07	0.47

Table Notes:

(\*) - Urbanized roadway segment based on road geometry and proximity to urban centers

(\*\*) - Rural roadway segment based on road geometry and distance from urban centers

Table 1.4 Primary Crash Factor (PCF) Violation Category	Count	%
00 - Unknown	2	2.47%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	8	9.88%
03 - Unsafe Speed	19	23.46%
05 - Wrong Side of Road	7	8.64%
06 - Improper Passing	1	1.23%
07 - Unsafe Lane Change	0	0.00%
08 - Improper Turning	33	40.74%
09 - Automobile Right of Way	5	6.17%
12 - Traffic Signals and Signs	0	0.00%
17 - Other Hazardous Violation	1	1.23%
18 - Other Than Driver (or Pedestrian)	5	6.17%
Total	81	100.00%



#### **Improper Turning Crashes**

- 13 were "ran off road; hit fixed object"
- 6 were "other unsafe turn; hit fixed object"
- 4 were "ran off road; overturned"
- 3 were "other unsafe turn; overturned; noncollision"
- 1 was "ran off road; hit other object"
- 1 was "proceeding straight; overturned"
- 1 was "other unsafe turn; hit other vehicles"
- 1 was "crossed into opposing lane" (fatal crash)
- 1 was "proceeding straight; hit fixed object"
- 1 was "making R turn; overturned"

Table 1.5 Lighting Condition	Count	%
Not Stated	0	0%
A - Daylight	61	75%
B - Dusk - Dawn	1	1%
C - Dark - Street Lights	2	2%
D - Dark - No Street Lights	17	21%
E - Dark - Street Lights Not Functioning	0	0%
Total	81	100%

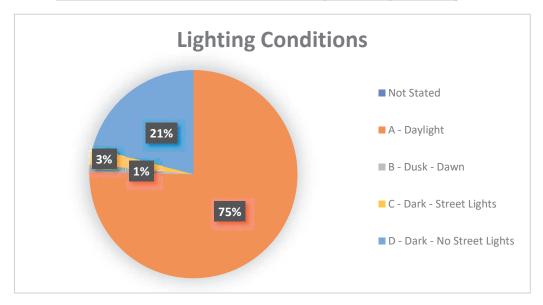


Table 1.6 Crash Severity	Count	%
1 - Fatal	7	8.64%
2 - Injury (Severe)	11	13.58%
3 - Injury (Other Visible)	27	33.33%
4 - Injury (Complaint of Pain)	36	44.44%
Total	81	100.00%

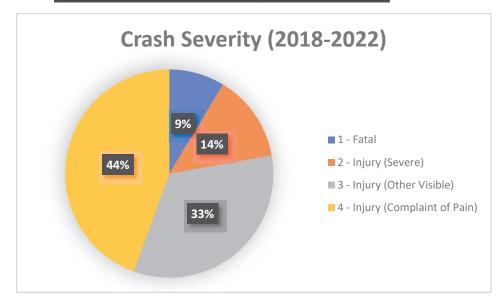


Table 1.7 Type of Crash	Count	%
A - Head-On	8	9.88%
B - Sideswipe	1	1.23%
C - Rear End	20	24.69%
D - Broadside	6	7.41%
E - Hit Object	31	38.27%
F - Overturned	12	14.81%
G - Vehicle/Pedestrian	0	0.00%
H - Other	3	3.70%
Total	81	100.00%

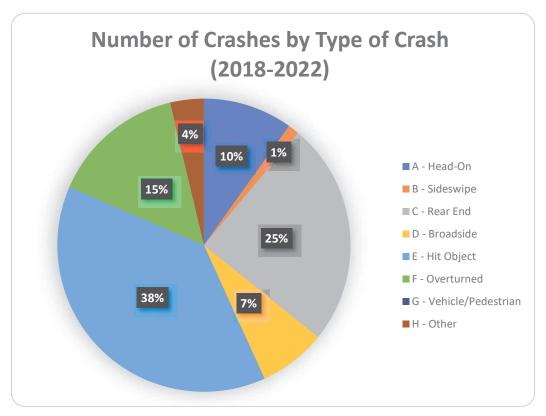
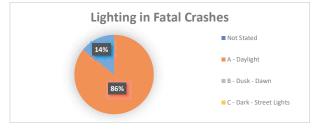
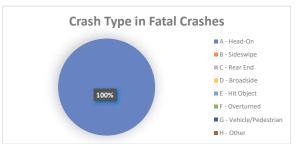


Table 1.8 Fatal Crash Analysis

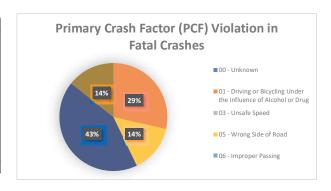
a) Lighting in Fatal Crashes	Count	%
Not Stated	0	0%
A - Daylight	6	86%
B - Dusk - Dawn	0	0%
C - Dark - Street Lights	0	0%
D - Dark - No Street Lights	1	14%
E - Dark - Street Lights Not Functioning	0	0%
Total	7	100%



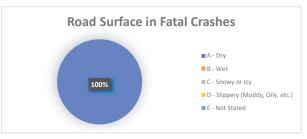
b) Crash Type in Fatal Crashes	Count	%
A - Head-On	7	100%
B - Sideswipe	0	0%
C - Rear End	0	0%
D - Broadside	0	0%
E - Hit Object	0	0%
F - Overturned	0	0%
G - Vehicle/Pedestrian	0	0%
H - Other	0	0%
Total	7	100%



c) Primary Crash Factor (PCF) Violation in Fatal Crashes	Count	%
00 - Unknown	0	0.00%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	2	28.57%
03 - Unsafe Speed	0	0.00%
05 - Wrong Side of Road	1	14.29%
06 - Improper Passing	0	0.00%
07 - Unsafe Lane Change	0	0.00%
08 - Improper Turning	3	42.86%
09 - Automobile Right of Way	0	0.00%
12 - Traffic Signals and Signs	0	0.00%
17 - Other Hazardous Violation	1	14.29%
18 - Other Than Driver (or Pedestrian)	0	0.00%
Total	7	100.00%



d) Road Surface in Fatal Crashes	Count	%
A - Dry	7	100%
B - Wet	0	0%
C - Snowy or Icy	0	0%
D - Slippery (Muddy, Oily, etc.)	0	0%
E - Not Stated	0	0%
Total	7	100%



e) Road Condition in Fatal Crashes	Count	%
A - Holes, Deep Ruts	0	0.00%
B - Loose Material on Roadway	0	0.00%
C - Obstruction on Roadway	0	0.00%
D - Construction or Repair Zone	0	0.00%
E - Reduced Roadway Width	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - No Unusual Condition	7	100.00%
I - Not Stated	0	0.00%
Total	7	100.00%



Table 1.9 Road Surface	Count	%
A - Dry	66	81.48%
B - Wet	13	16.05%
C - Snowy or Icy	2	2.47%
D - Slippery (Muddy, Oily, etc.)	0	0.00%
E - Not Stated	0	0.00%
Total	81	100.00%

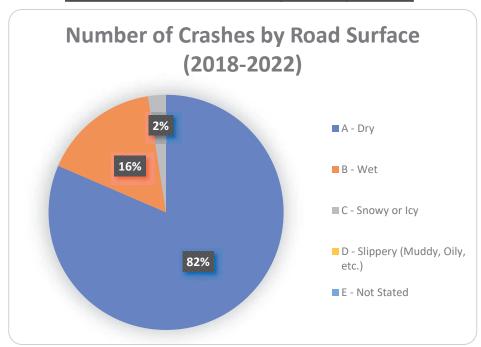
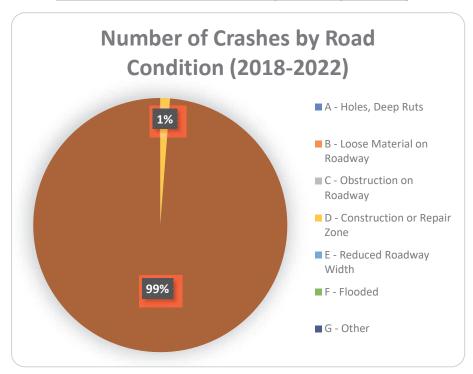


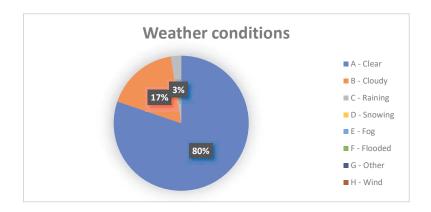
Table 1.10 Road Condition	Count	%
A - Holes, Deep Ruts	0	0.00%
B - Loose Material on Roadway	0	0.00%
C - Obstruction on Roadway	0	0.00%
D - Construction or Repair Zone	1	1.23%
E - Reduced Roadway Width	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - No Unusual Condition	80	98.77%
I - Not Stated	0	0.00%
Total	81	100.00%

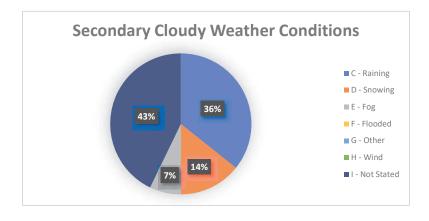


**Table 1.11 Weather Conditions** 

Weather Condition Primary	Count	%
A - Clear	65	80.25%
B - Cloudy	14	17.28%
C - Raining	2	2.47%
D - Snowing	0	0.00%
E - Fog	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - Wind	0	0.00%
I - Not Stated	0	0.00%
Total	81	100.00%

Secondary Cloudy Weather Condition	Count	%
C - Raining	5	6.17%
D - Snowing	2	2.47%
E - Fog	1	1.23%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - Wind	0	0.00%
I - Not Stated	6	7.41%
Total	14	17.28%





Tah	le 1	12 Cr.	ash Da	ata hy	Segment

Segment 1: I-5 to Hawley Road			
Crash Severity	Count	%	
1 - Fatal	0	0.00%	
2 - Injury (Severe)	1	16.67%	
3 - Injury (Other Visible)	3	50.00%	
4 - Injury (Complaint of Pain)	2	33.33%	
Total	6	100.00%	

Lighting	Count	%
Not Stated	0	0%
A - Daylight	2	40%
B - Dusk - Dawn	1	20%
C - Dark - Street Lights	2	40%
D - Dark - No Street Lights	0	0%
E - Dark - Street Lights Not Functioning	0	0%
Total	5	100%

Crash Type	Count	%
A - Head-On	1	20%
B - Sideswipe	0	0%
C - Rear End	3	60%
D - Broadside	1	20%
E - Hit Object	0	0%
F - Overturned	0	0%
G - Vehicle/Pedestrian	0	0%
H - Other	0	0%
Total	5	100%

Primary Crash Factor (PCF) Violation	Count	%
00 - Unknown	1	20.00%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	1	20.00%
03 - Unsafe Speed	0	0.00%
05 - Wrong Side of Road	2	40.00%
06 - Improper Passing	0	0.00%
07 - Unsafe Lane Change	0	0.00%
08 - Improper Turning	0	0.00%
09 - Automobile Right of Way	1	20.00%
12 - Traffic Signals and Signs	0	0.00%
17 - Other Hazardous Violation	0	0.00%
18 - Other Than Driver (or Pedestrian)	0	0.00%
Total	5	100.00%

Road Surface	Count	%
A - Dry	5	100%
B - Wet	0	0%
C - Snowy or Icy	0	0%
D - Slippery (Muddy, Oily, etc.)	0	0%
E - Not Stated	0	0%
Total	 5	100%

Road Condition	Count	%
A - Holes, Deep Ruts	0	0.00%
B - Loose Material on Roadway	0	0.00%
C - Obstruction on Roadway	0	0.00%
D - Construction or Repair Zone	0	0.00%
E - Reduced Roadway Width	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - No Unusual Condition	5	100.00%
I - Not Stated	0	0.00%
Total	5	100.00%

Weather Condition	Count	%
A - Clear	5	100.00%
B - Cloudy	0	0.00%
C - Raining	0	0.00%
D - Snowing	0	0.00%
E - Fog	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - Wind	0	0.00%
I - Not Stated	0	0.00%
Total	5	100.00%

Segment 2: Hawley Road to Old Oregon Trail		
Crash Severity	Count	%
1 - Fatal	0	0.00%
2 - Injury (Severe)	0	0.00%
3 - Injury (Other Visible)	2	100.00%
4 - Injury (Complaint of Pain)	0	0.00%
Total	2	100.00%

Lighting	Count	%
Not Stated	0	0%
A - Daylight	2	100%
B - Dusk - Dawn	0	0%
C - Dark - Street Lights	0	0%
D - Dark - No Street Lights	0	0%
E - Dark - Street Lights Not Functioning	0	0%
Total	2	100%

Crash Type	Count	%
A - Head-On	0	0%
B - Sideswipe	0	0%
C - Rear End	2	100%
D - Broadside	0	0%
E - Hit Object	0	0%
F - Overturned	0	0%
G - Vehicle/Pedestrian	0	0%
H - Other	0	0%
Total	2	100%

Primary Crash Factor (PCF) Violation	Count	%
00 - Unknown	0	0.00%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	0	0.00%
03 - Unsafe Speed	2	100.00%
05 - Wrong Side of Road	0	0.00%
06 - Improper Passing	0	0.00%
07 - Unsafe Lane Change	0	0.00%
08 - Improper Turning	0	0.00%
09 - Automobile Right of Way	0	0.00%
12 - Traffic Signals and Signs	0	0.00%
17 - Other Hazardous Violation	0	0.00%
18 - Other Than Driver (or Pedestrian)	0	0.00%
Total	2	100.00%

Road Surface	Count	%
A - Dry	2	100%
B - Wet	0	0%
C - Snowy or Icy	0	0%
D - Slippery (Muddy, Oily, etc.)	0	0%
E - Not Stated	0	0%
Total	2	100%

Road Condition 1	Count	%
A - Holes, Deep Ruts	0	0.00%
B - Loose Material on Roadway	0	0.00%
C - Obstruction on Roadway	0	0.00%
D - Construction or Repair Zone	0	0.00%
E - Reduced Roadway Width	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - No Unusual Condition	2	100.00%
I - Not Stated	0	0.00%
Total	2	100.00%

Weather Condition 1	Count	%
A - Clear	2	100.00%
B - Cloudy	0	0.00%
C - Raining	0	0.00%
D - Snowing	0	0.00%
E - Fog	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - Wind	0	0.00%
I - Not Stated	0	0.00%
Total	2	100.00%

gment 3: Old Oregon Trail to Deschutes Road			Segment 4: Deschutes Road to Terry Mill Road		
ash Severity	Count	%	Crash Severity	Count	%
Fatal	0	0.00%	1 - Fatal	6	16.22
Injury (Severe)	2	12.50%	2 - Injury (Severe)	3	8.11
Injury (Other Visible)	8	50.00%	3 - Injury (Other Visible)	10	27.0
- Injury (Complaint of Pain)	6	37.50%	4 - Injury (Complaint of Pain)	18	48.65
otal	16	100.00%	Total	37	100.0
	<del></del>		\(\frac{1}{2}\)		
ghting	Count	%	Lighting	Count	%
ot Stated	0	0%	Not Stated	0	0%
- Daylight	14	88%	A - Daylight	25	689
- Dusk - Dawn	0	0%	B - Dusk - Dawn	0	0%
- Dark - Street Lights	2	13%	C - Dark - Street Lights	0	0%
- Dark - No Street Lights	0	0%	D - Dark - No Street Lights	12	329
- Dark - Street Lights Not Functioning	0	0%	E - Dark - Street Lights Not Functioning	0	0%
otal	16	100%	Total	37	100
	-	•		-	
rash Type	Count	%	Crash Type	Count	%
- Head-On	1	6%	A - Head-On	3	8%
Sideswipe	0	0%	B - Sideswipe	1	3%
- Rear End	9	56%	C - Rear End	5	14%
Broadside	2	13%	D - Broadside	1	3%
- Hit Object	4	25%	E - Hit Object	18	499
Overturned	0	0%	F - Overturned	8	229
- Vehicle/Pedestrian	0	0%	G - Vehicle/Pedestrian	0	0%
- Other	0	0%	H - Other	1	3%
otal	16	100%	Total	37	100
rimary Crash Factor (PCF) Violation	Count	%	Primary Crash Factor (PCF) Violation	Count	%
) - Unknown	0	0.00%	00 - Unknown	1	2.70
1 - Driving or Bicycling Under the Influence of Alcohol or Drug	1	6.25%	01 - Driving or Bicycling Under the Influence of Alcohol or Drug	5	13.51
3 - Unsafe Speed	8	50.00%	03 - Unsafe Speed	4	10.81
5 - Wrong Side of Road	2	12.50%	05 - Wrong Side of Road	3	8.11
5 - Improper Passing	0	0.00%	06 - Improper Passing	1	2.70
7 - Unsafe Lane Change	0	0.00%	07 - Unsafe Lane Change	0	0.00
B - Improper Turning	4	25.00%	08 - Improper Turning	19	51.3
9 - Automobile Right of Way	1	6.25%	09 - Automobile Right of Way	1	2.70
2 - Traffic Signals and Signs	0	0.00%	12 - Traffic Signals and Signs	0	0.00
7 - Other Hazardous Violation	0	0.00%	17 - Other Hazardous Violation	1	2.70
8 - Other Than Driver (or Pedestrian)	0	0.00%	18 - Other Than Driver (or Pedestrian)	2	5.41
otal	16	100.00%	Total	37	100.0
oad Surface	Count	%	Road Surface	Count	%
- Dry	14	88%	A - Dry	29	789
- Wet	2	13%	B - Wet	8	22%
- Snowy or Icy	0	0%	C - Snowy or Icy	0	0%
- Slippery (Muddy, Oily, etc.)	0	0%	D - Slippery (Muddy, Oily, etc.)	0	0%
- Not Stated	0	0%	E - Not Stated	0	0%
otal	16	100%	Total	37	100
oad Condition 1	Count	%	Road Condition 1	Count	%
- Holes, Deep Ruts	0	0.00%	A - Holes, Deep Ruts	0	0.00
- Loose Material on Roadway	0	0.00%	B - Loose Material on Roadway	0	0.00
- Obstruction on Roadway	0	0.00%	C - Obstruction on Roadway	0	0.00
- Construction or Repair Zone	0	0.00%	D - Construction or Repair Zone	0	0.00
- Reduced Roadway Width	0	0.00%	E - Reduced Roadway Width	0	0.00
- Flooded	0	0.00%	F - Flooded	0	0.00
- Other	0	0.00%	G - Other	0	0.00
- No Unusual Condition	16	100.00%	H - No Unusual Condition	37	100.0
Not Stated	0	0.00%	I - Not Stated	0	0.00
tal	16	100.00%	Total	37	100.0
eather Condition 1	Count	%	Weather Condition 1	Count	%
Clear	14	77.78%	A - Clear	28	75.6
Cloudy	2	11.11%	B - Cloudy	9	24.32
Raining	2	11.11%	C - Raining	0	0.00
- Snowing	0	0.00%	D - Snowing	0	0.00
- Fog	0	0.00%	E - Fog	0	0.00
Flooded	0	0.00%	F - Flooded	0	0.00
- Other	0	0.00%	G - Other	0	0.00
Wind	0	0.00%	H - Wind	0	0.00
Not Stated	0	0.00%	I - Not Stated	0	0.00
Not Stated		100.00%			100.0

Table	1.12	Crash	Data	by Segment	

Segment 5: Terry Mill Road to Big Bend Road		
Crash Severity	Count	%
1 - Fatal	1	9.09%
2 - Injury (Severe)	2	18.18%
3 - Injury (Other Visible)	2	18.18%
4 - Injury (Complaint of Pain)	6	54.55%
Total	11	100.00%
Lighting	Count	%
Not Stated	0	0%
A - Daylight	9	82%
B - Dusk - Dawn	0	0%

Lighting	Count	%
Not Stated	0	0%
A - Daylight	9	82%
B - Dusk - Dawn	0	0%
C - Dark - Street Lights	0	0%
D - Dark - No Street Lights	2	18%
E - Dark - Street Lights Not Functioning	0	0%
Total	11	100%

Crash Type	Count	%
A - Head-On	1	9%
B - Sideswipe	0	0%
C - Rear End	1	9%
D - Broadside	1	9%
E - Hit Object	7	64%
F - Overturned	1	9%
G - Vehicle/Pedestrian	0	0%
H - Other	0	0%
Total	11	100%

Primary Crash Factor (PCF) Violation	Count	%
00 - Unknown	0	0.00%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	0	0.00%
03 - Unsafe Speed	3	27.27%
05 - Wrong Side of Road	0	0.00%
06 - Improper Passing	0	0.00%
07 - Unsafe Lane Change	0	0.00%
08 - Improper Turning	7	63.64%
09 - Automobile Right of Way	0	0.00%
12 - Traffic Signals and Signs	0	0.00%
17 - Other Hazardous Violation	0	0.00%
18 - Other Than Driver (or Pedestrian)	1	9.09%
Total	11	100.00%

Road Surface	Count	%
A - Dry	9	82%
B - Wet	2	18%
C - Snowy or Icy	0	0%
D - Slippery (Muddy, Oily, etc.)	0	0%
E - Not Stated	0	0%
Total	11	100%

Road Condition 1	Count	%
A - Holes, Deep Ruts	0	0.00%
B - Loose Material on Roadway	0	0.00%
C - Obstruction on Roadway	0	0.00%
D - Construction or Repair Zone	0	0.00%
E - Reduced Roadway Width	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - No Unusual Condition	11	100.00%
I - Not Stated	0	0.00%
Total	11	100.00%

Weather Condition 1	Count	%
A - Clear	9	81.82%
B - Cloudy	1	9.09%
C - Raining	1	9.09%
D - Snowing	0	0.00%
E - Fog	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - Wind	0	0.00%
I - Not Stated	0	0.00%
Total	11	100.00%

Segment 7: Site Entrance 1 to Site Entrance 2				
Crash Severity	Count	%		
1 - Fatal	0	0.00%		
2 - Injury (Severe)	1	50.00%		
3 - Injury (Other Visible)	0	0.00%		
4 - Injury (Complaint of Pain)	1	50.00%		
Total	2	100.00%		

Lighting	Count	%
Not Stated	0	0%
A - Daylight	2	100%
B - Dusk - Dawn	0	0%
C - Dark - Street Lights	0	0%
D - Dark - No Street Lights	0	0%
E - Dark - Street Lights Not Functioning	0	0%
Total	2	100%

Crash Type	Count	%
A - Head-On	1	50%
B - Sideswipe	0	0%
C - Rear End	0	0%
D - Broadside	0	0%
E - Hit Object	0	0%
F - Overturned	1	50%
G - Vehicle/Pedestrian	0	0%
H - Other	0	0%
Total	2	100%

Primary Crash Factor (PCF) Violation	Count	%
00 - Unknown	0	0.00%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	0	0.00%
03 - Unsafe Speed	0	0.00%
05 - Wrong Side of Road	1	50.00%
06 - Improper Passing	0	0.00%
07 - Unsafe Lane Change	0	0.00%
08 - Improper Turning	1	50.00%
09 - Automobile Right of Way	0	0.00%
12 - Traffic Signals and Signs	0	0.00%
17 - Other Hazardous Violation	0	0.00%
18 - Other Than Driver (or Pedestrian)	0	0.00%
Total	2	100.00%

Road Surface	Count	%
A - Dry	1	50%
B - Wet	0	0%
C - Snowy or Icy	1	50%
D - Slippery (Muddy, Oily, etc.)	0	0%
E - Not Stated	0	0%
Total	2	100%

Road Condition 1	Count	%
A - Holes, Deep Ruts	0	0.00%
B - Loose Material on Roadway	0	0.00%
C - Obstruction on Roadway	0	0.00%
D - Construction or Repair Zone	0	0.00%
E - Reduced Roadway Width	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - No Unusual Condition	2	100.00%
I - Not Stated	0	0.00%
Total	2	100.00%

Weather Condition 1	Count	%
A - Clear	1	50.00%
B - Cloudy	1	50.00%
C - Raining	0	0.00%
D - Snowing	0	0.00%
E - Fog	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - Wind	0	0.00%
I - Not Stated	0	0.00%
Total	2	100.00%

		Table 1.12 Cr	ash Data by Segment		
Segment 8: Site Entrance 2 to Tamarack Road			Segment 9: Tamarack Road to Elm Street		
Crash Severity	Count	%	Crash Severity	Count	%
1 - Fatal	0	0.00%	1 - Fatal	0	0.00%
2 - Injury (Severe)	4	16.67% 66.67%	2 - Injury (Severe)	1	100.00%
3 - Injury (Other Visible) 4 - Injury (Complaint of Pain)	1	16.67%	3 - Injury (Other Visible) 4 - Injury (Complaint of Pain)	0	0.00%
Total	6	100.00%	Total	1	100.00%
Lighting	Count	%	Lighting	Count	%
Not Stated	0	0%	Not Stated	0	0%
A - Daylight	5	83%	A - Daylight B - Dusk - Dawn	0	100%
B - Dusk - Dawn C - Dark - Street Lights	0	0%	C - Dark - Street Lights	0	0%
D - Dark - No Street Lights	1	17%	D - Dark - No Street Lights	0	0%
E - Dark - Street Lights Not Functioning	0	0%	E - Dark - Street Lights Not Functioning	0	0%
Total	6	100%	Total	1	100%
la				1	*
Crash Type A - Head-On	Count 0	% 0%	Crash Type A - Head-On	Count 1	% 100%
A - Head-Un B - Sideswipe	0	0%	A - Head-On B - Sideswipe	0	100%
C - Rear End	1	17%	C - Rear End	0	0%
D - Broadside	0	0%	D - Broadside	0	0%
E - Hit Object	2	33%	E - Hit Object	0	0%
F - Overturned	2	33%	F - Overturned	0	0%
G - Vehicle/Pedestrian H - Other	0	0% 17%	G - Vehicle/Pedestrian H - Other	0	0%
Total	6	100%	Total	1	100%
				-	
Primary Crash Factor (PCF) Violation	Count	%	Primary Crash Factor (PCF) Violation	Count	%
00 - Unknown	0	0.00%	00 - Unknown	0	0.00%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	0	0.00%	01 - Driving or Bicycling Under the Influence of Alcohol or Drug	0	0.00%
03 - Unsafe Speed 05 - Wrong Side of Road	0	0.00%	03 - Unsafe Speed 05 - Wrong Side of Road	0 1	0.00%
06 - Improper Passing	0	0.00%	06 - Improper Passing	0	0.00%
07 - Unsafe Lane Change	0	0.00%	07 - Unsafe Lane Change	0	0.00%
08 - Improper Turning	1	50.00%	08 - Improper Turning	0	0.00%
09 - Automobile Right of Way	0	0.00%	09 - Automobile Right of Way	0	0.00%
12 - Traffic Signals and Signs	0	0.00%	12 - Traffic Signals and Signs	0	0.00%
17 - Other Hazardous Violation 18 - Other Than Driver (or Pedestrian)	0	0.00%	17 - Other Hazardous Violation	0	0.00%
Total	0 2	100.00%	18 - Other Than Driver (or Pedestrian)  Total	1	0.00% <b>100.00%</b>
1000		100.00%	Total	1	100.00%
Road Surface	Count	%	Road Surface	Count	%
A - Dry	4	67%	A - Dry	1	100%
B - Wet	0	0%	B - Wet	0	0%
C - Snowy or Icy	2	33%	C - Snowy or Icy	0	0%
D - Slippery (Muddy, Oily, etc.) E - Not Stated	0	0%	D - Slippery (Muddy, Oily, etc.) E - Not Stated	0	0%
Total	6	100%	Total	1	100%
				-	_00/0
Road Condition 1	Count	%	Road Condition 1	Count	%
A - Holes, Deep Ruts	0	0.00%	A - Holes, Deep Ruts	0	0.00%
B - Loose Material on Roadway	0	0.00%	B - Loose Material on Roadway	0	0.00%
C - Obstruction on Roadway	0	0.00%	C - Obstruction on Roadway	0	0.00%
D - Construction or Repair Zone E - Reduced Roadway Width	0	0.00%	D - Construction or Repair Zone E - Reduced Roadway Width	0	0.00%
F - Flooded	0	0.00%	F - Flooded	0	0.00%
G - Other	0	0.00%	G - Other	0	0.00%
H - No Unusual Condition	6	100.00%	H - No Unusual Condition	1	100.00%
I - Not Stated	0	0.00%	I - Not Stated	0	0.00%
Total	6	100.00%	Total	1	100.00%
Weather Condition 1	Count	%	Weather Condition 1	Count	%
A - Clear	4	66.67%	A - Clear	1	100.00%
B - Cloudy	1	16.67%	B - Cloudy	0	0.00%
C - Raining	1	16.67%	C - Raining	0	0.00%
D - Snowing	0	0.00%	D - Snowing	0	0.00%
E - Fog	0	0.00%	E - Fog	0	0.00%
F - Flooded G - Other	0	0.00%	F - Flooded G - Other	0	0.00%
H - Wind	0	0.00%	H - Wind	0	0.00%
I - Not Stated	0	0.00%	I - Not Stated	0	0.00%
Total	6	100.00%	Total	1	100.00%
			<del></del>		

Table 1.12 Crash Data	by Segment (continued)	
Segment 10: Elm Street to Plumas Street		
Crash Severity	Count	%
1 - Fatal	0	0.00%
2 - Injury (Severe)	0	0.00%
3 - Injury (Other Visible)	0	0.00%
4 - Injury (Complaint of Pain)	2	100.00%
Total	2	100.00%
	-	
Lighting	Count	%
Not Stated	0	0%
A - Daylight	2	100%
B - Dusk - Dawn	0	0%
C - Dark - Street Lights	0	0%
D - Dark - No Street Lights	0	0%
E - Dark - Street Lights Not Functioning	0	0%
		1

Crash Type	Count	%
A - Head-On	0	0%
B - Sideswipe	0	0%
C - Rear End	0	0%
D - Broadside	2	100%
E - Hit Object	0	0%
F - Overturned	0	0%
G - Vehicle/Pedestrian	0	0%
H - Other	0	0%
Total	2	100%

Primary Crash Factor (PCF) Violation	Count	%
00 - Unknown	0	0.00%
01 - Driving or Bicycling Under the Influence of Alcohol or Drug	0	0.00%
03 - Unsafe Speed	0	0.00%
05 - Wrong Side of Road	0	0.00%
06 - Improper Passing	0	0.00%
07 - Unsafe Lane Change	0	0.00%
08 - Improper Turning	0	0.00%
09 - Automobile Right of Way	2	100.00%
12 - Traffic Signals and Signs	0	0.00%
17 - Other Hazardous Violation	0	0.00%
18 - Other Than Driver (or Pedestrian)	0	0.00%
Total	2	100.00%

Road Surface	Count	%
A - Dry	2	100%
B - Wet	0	0%
C - Snowy or Icy	0	0%
D - Slippery (Muddy, Oily, etc.)	0	0%
E - Not Stated	0	0%
Total	2	100%

Road Condition 1	Count	%
A - Holes, Deep Ruts	0	0.00%
B - Loose Material on Roadway	0	0.00%
C - Obstruction on Roadway	0	0.00%
D - Construction or Repair Zone	0	0.00%
E - Reduced Roadway Width	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - No Unusual Condition	2	100.00%
I - Not Stated	0	0.00%
Total	2	100.00%

Weather Condition 1	Count	%
A - Clear	2	100.00%
B - Cloudy	0	0.00%
C - Raining	0	0.00%
D - Snowing	0	0.00%
E - Fog	0	0.00%
F - Flooded	0	0.00%
G - Other	0	0.00%
H - Wind	0	0.00%
I - Not Stated	0	0.00%
Total	2	100.00%

#### 4.0 CONSTRUCTION TRAFFIC OVERVIEW

Westwood estimated the full construction period traffic volume based on the types of delivery, construction, operations, maintenance, and worker vehicles required during the various phases of the project. Westwood estimated trips into and out of the development area based on the projected number of deliveries, the required types of equipment and material, and the projected number of employees necessary to complete the project over the estimated construction period. Typically, the selected construction contractor will determine the project timeline. These volumes of trips were calculated using a spreadsheet that lists every known phase of construction with corresponding equipment, material, and numbers of employees, which are then averaged over the course of the project period.

During construction, the project will employ an estimated maximum number of 199 workers/day during the peak period of construction, which include construction workers, project management staff, equipment operators, survey staff, and delivery vehicle drivers during the peak period. The calculation of workers and delivery vehicles was developed using a construction estimation based on time and materials and using crew productivity data from RS Means, an industry-standard construction cost estimating software package. The total number of trips was determined by using the number of employees in each of the categories listed above, dividing that number by an estimated vehicle occupancy of 2 employees and multiplying by the number of workdays for each employee category. Typically, construction projects show a bell-curve distribution of workers through the construction period. Initial site mobilization and early site preparation work will have fewer workers. The number of workers will build to a peak during the period of greatest activity. As construction draws to a close, the average number of workers per day will decrease as crews complete their work.

As a result, the estimated number of workdays and total number of two-way trips for each category are:

- 250 days for commuters (36,966 total two-way trips);
- 250 days for equipment (262 total two-way trips);
- 250 days for aggregate deliveries (26,729 total two-way trips);
- 200 days for turbine deliveries (5,909 total two-way trips);
- 230 days for concrete deliveries (5,140 total two-way trips);
- 250 days for miscellaneous materials deliveries (556 total two-way trips) and;
- 250 days for water deliveries (49,852 total two-way trips)

Thus, over the estimated two-year construction period, the total number of all two-way trips is approximately 125,413 trips.

After the construction of the wind farm, operations, and maintenance traffic will be limited to a few passenger vehicle trips per day.

General summaries of the construction work tasks, and related delivery and construction vehicles are listed below.

#### 4.1 WORK TASKS

Work Tasks are generally listed in chronological order, but extensive overlap can be expected depending on the contractor's scheduling.

- Survey the project site and set construction stakes
- Install and maintain erosion and sediment control
- Timber removal/clear and grub laydown, substations, O&M, access roads, and turbine pads areas
- Grade field office and O&M locations
- Deliver and Install Field Office trailers
- Grade temporary laydown areas
- Improve logging roads/construct access roads grade and place aggregate
- Erect security fencing enclosing laydown yards and facilities
- Excavate turbine foundations
- Place foundation mud mat
- Place foundation reinforcing
- Place foundation forms
- Place foundation concrete
- Strip forms
- Backfill foundations
- Unload turbine components
- Erect turbine tower sections using base crane
- Erect top turbine tower section, nacelle, hub, and blades using topping crane
- Grade transformer pad areas
- Install turbine transformers
- Connect turbine to transformer wiring
- Grade substation and switching substation areas
- Construct substation and O&M foundations
- Trench underground collector system (34.5kV)
- Install overhead collection system lines (34.5kV)
- Construct O&M Facility
- Construct substation and switching substation equipment and main power transformer foundations
- Install step-up substation and switching substation equipment and Supervisory Control and Data Acquisition (SCADA)
- Place step-up substation and switching substation aggregate
- Install security fence around step-up substation and switching substation
- Connect step-up substation to switching substation
- Connect switching substation to transmission line

- Test and commission equipment
- Remove field offices, security fencing, and replace topsoil
- Remove staging area security fences and replace topsoil
- Restore, revegetate, and remove temporary erosion and sediment control

#### 4.2 CONSTRUCTION EQUIPMENT

Examples of the types of equipment generally used in wind farm construction are listed below. Exhibit 4 lists the number and type of equipment assumed for construction:

- Erosion and sediment control silt fence trenchers
- Timber harvest/removal typical forestry equipment such as feller-bunchers, shears, skidders, hydro-axe, and logging trucks
- Grading (field office location, staging areas, O&M facility, step-up substation, and switching substation) – medium bulldozers, scrapers, road grader, compaction rollers, and water trucks
- Logging road/access road improvements medium bulldozers, road grader, scrapers, compaction rollers, and water trucks
- Materials handling equipment (unloading wind turbine components) hydraulic (helper) cranes, small flat-bed trailers pulled by pick-up trucks, heavy crawler cranes
- Security fencing skid-steer with auger attachment, and hydraulic post driver attachment, and hand tools for each crew
- Turbine foundations medium bulldozer, excavator, hydraulic crane, and concrete pump truck
- Tower base erection hydraulic (helper) cranes and base crane
- Tower top/nacelle/hub/blades erection hydraulic cranes and topper crane
- Pad mounted transformers at each turbine truck mounted or mobile hydraulic crane
- Turbine wiring hand tools
- 34.5 kV underground collector trenching specialized trenching equipment, cable plows, and back hoes, cable reel trailers
- 34.5 kV overhead collection line backhoe with auger attachment, specialized pole setting equipment (boom trucks), bucket trucks, cable reel trailers
- O&M and substation equipment foundations back hoe
- Substation construction bulldozer, backhoe, compaction roller, water trucks, mobile hydraulic crane, large crane (MPT)
- Switching substation construction bulldozers, backhoes, compaction rollers, water trucks, mobile hydraulic crane
- Substation to interconnect transmission line foundation auger mounted on back hoe, mobile hydraulic crane
- O&M Building mobile hydraulic crane
- Removal of temporary aggregate (field office location and staging areas) Front end loader

 Revegetation and removal of erosion and sediment control – chisel plow (decompaction), small tractor and tilling equipment, skid steer loader, hydro seeding/hydro-mulching equipment

#### 4.3 MATERIALS

Examples of materials used in the construction of wind farms is listed below. **Exhibit 4** lists the materials assumed for construction:

- Silt fence, bio log, and other erosion and sediment control materials
- Aggregate (access roads, staging areas, O&M facility, substations)
- Security fencing (field office location, staging areas, substations)
- Field Offices and storage trailers
- Formwork for foundations (equipment pads, O&M, substation transformers and equipment, and switching substation equipment)
- Rebar for above concrete foundations
- Concrete for wind turbine foundations and transformer pads
- Concrete for O&M facility foundation
- Concrete for substation foundations (Main Power Transformer (MPT), electrical equipment, and control building)
- O&M Building materials
- Collection system wiring (underground and overhead)
- Electrical equipment (transformers, switch gear, circuit breakers, junction boxes, conduit, SCADA, etc.)
- Structural steel for substation racking
- Structural steel poles for overhead collection line
- Main power transformers
- Transmission line cables (from switching substation to transmission line)
- Water for aggregate/backfill compaction, vegetation establishment, and dust control
- Miscellaneous consumables
- Plant stock, seed, and mulch

#### 4.4 MATERIAL DELIVERY VEHICLES

The types of vehicles used for material deliveries is listed below. **Exhibit 4** lists the material delivery vehicles assumed for construction:

- Semi-Trailer Flatbed Trucks for hauling logs off of site
- Single Unit Flatbed Trucks Erosion and sediment control materials, plant stock, seed, and mulch, miscellaneous consumables
- Gravel Semi-Trailer Dump Trucks with a 16 cubic yard load capacity (loose volume) with an approximate gross vehicle weight of 80,000 pounds and a load weight of approximately 40,000 pounds.

- Field office trailers (one 40' x 12' for PM use; 12' x 36' triple wide for subs use)
- Concrete Trucks- with a 10 CY capacity, weighing approximately 69,000 pounds
- Semi-Trailer Flat Bed security fence, concrete forms, rebar, O&M building components, transformers, miscellaneous turbine materials, structural steel for substations, electrical equipment for substation, Non-permit load size 8'-6" x 8'-6" x 48'-0", gross vehicle weight 80,000 pounds, up to 45,000 pound loads
- Cable trailers 34.5 kV underground, 34.5 kV overhead, and overhead transmission from switching substation to transmission line
- Overhead collection system pole trailers
- Water trucks 4000 gallon capacity, single unit tank trucks, weighing approximately 59,000 pounds
- Lowboy Multi-Axel Trailer Main power transformer, substation control building
- Workers' trucks (Pick-up trucks –average 1.5 occupants)

#### 4.5 EQUIPMENT DELIVERY VEHICLES

Types of vehicles used for the delivery of construction equipment inculde:

- Lowboy semi-trailer Logging equipment, bulldozers, scrapers, compaction rollers, road grader, excavator, trenching equipment, backhoes, hydraulic (helper) cranes, crawler cranes, skid steer loaders, trenchers, cable plows, agricultural plows
- Single unit flatbed truck Hydro much/hydro-seed equipment
- Small flatbed trailers towed behind pick-up trucks for small equipment and tools

#### 5.0 CONSTRUCTION & SCHEDULE

Construction of wind farms requires that a few tasks be repeated across the project site. Some sequencing of tasks is required, but many tasks may overlap across the site for efficient scheduling. The construction of the operations and maintenance facility, substation, switching substation, and underground and overhead collection systems can overlap with other tasks or can be exceptions, depending on the scheduling of and priority of precedent activities.

For the purpose of determining the daily volume of traffic, construction time is estimated to take approximately two years (approximately 250 business days), with construction occurring only during the spring, summer, and fall. Wind farm sites are large and allow many crews to work simultaneously without interfering with one another. Nevertheless, the size of the project (number of wind turbines) impacts the construction time significantly because the cost of mobilizing the large cranes required for turbine erection is high, and because the cranes are in such high demand that mobilizing a small number of cranes is typical on wind projects.

#### 6.0 OVERSIZED LOADS AND PERMITTING

The logistics of delivering the oversized loads for the wind turbines, with the use of specialized transportation vehicles, also creates schedule constraints. A Transportation Management Plan would be prepared to minimize impacts from the transportation of oversized loads and to direct deliveries to off-peak hours.

Trucks carrying turbine components such as blades and nacelles will be oversized and will be required to be accompanied by pilot cars. Oversized load transportation permits will be obtained in coordination with CalTrans.

These oversized trucks would likely be required to travel over bridges and overpasses. Weight and size limits may require detours in accordance with Caltrans direction. A logistical route analysis that focuses more on geometrics and bridge capacity will be performed following the final selection of the turbine model to be used for the project. Because there is direct project access to the state highway, and based on the fact that the adjacent Hatchet Ridge project delivered oversized components along this same infrastructure, the existing highway and bridge geometrics will likely be able to accommodate the planned deliveries. This will be verified by a logistical route survey when a turbine manufacturer, turbine model, and contractor have been selected.

Westwood has contacted Caltrans' Office of Transportation Permits. This office reviews and approves oversize/overweight permits along state highways. They have responded that any specific weight and height limitations would only be determined once a contractor has been selected and a Route Request Permit defining the origin and destination of the equipment/components is requested. The Caltrans variance coordinator will then review the request and issue the permit. Variance permits are required for anything over 53 feet in length with a maximum kingpin of 43 feet. A variance permit would be required for each blade or component delivery.

Once the requested route permit has been received by Caltrans, it will take up to thirty days to review and issue the permit. Bridge ratings will be tested depending on the loads forecast for each component and delivery vehicle.

Also, the Transportation Permit office states that even though SR 299 is identified as a "Blue Route" and pilot cars will be assumed for each blade delivery vehicle, the contractor will likely be required to contract with the California Highway Patrol (CHP) for escorts.

As far as roadway connections to SR 299, Caltrans Transportation Permits Office noted that coordination with the District 2 Encroachments Office will be required to determine what additional planning or roadway improvements would be needed to accommodate the oversized loads. A "Swept Path Analysis" must be completed that shows turn-by-turn impacts that might be experienced by the oversized loads along SR 299 or at side road intersections.

In summary, the sizes and weights of the selected components, the dimensions of the vehicles delivering them, the delivery routes and the route surveys will be completed as part of the Caltrans review process.

Nevertheless, all deliveries of components and materials for the Fountain Wind Project will be similar to those of the Hatchet Ridge project, with the exception of turbine blade deliveries. Fountain is proposing WTG ranging from 3 to 7.2 MW. WTG models in the lower size range of those proposed will have similar blade lengths as the 2.3 MW Siemens WTGs constructed on Hatchet Ridge. The largest blade length proposed for Fountain would be approximately 261' in length, which would be approximately 90' longer than those delivered to Hatchet Ridge. Although Fountain may utilize longer blade lengths, the haul trucks will include rear-axle steering capabilities, thereby mitigating potential turning constraints.

#### 6.1 Turbine Deliveries

Caltrans roads are designed to comply with the state Highway Design Manual. The geometry resulting from the basic highway design criteria appears to exceed the requirements for turbine component delivery, which requires a minimum k-value in the range of 20 (and which comfortably falls within the k-values of the highway design above). Vehicular design speeds are listed for various highway types. For conventional rural highways, the following design speeds are listed:

Flat terrain 55-70 mph
 Rolling terrain 50-60 mph
 Mountainous terrain 40-50 mph

According to the Caltrans Highway Design Manual, the k-value is the distance in feet required to achieve a 1% change in grade. Thus, the following k-values are listed under each condition:

- For stopping sight distances on crest vertical curves, the k-value = 68 feet when design speed is 40 mph
- For stopping sight distances on crest vertical curves, the k-value = 139 feet when design speed is 50 mph
- For stopping sight distances on sag vertical curves, the k-value = 62 feet when design speed is 40 mph
- For stopping sight distances on sag vertical curves, the k-value = 97 feet when design speed is 50 mph

According to a desktop review, there appear to be no underpasses along SR 299 east of I-5. There are two overpasses, however – one at Churn Creek Road and one at Old Oregon

Trail on the east side of Redding. Further to the east, there appear to be two creek crossings (Salt Creek Bridge 6-49 and Cedar Creek Bridge 6-20) along SR 299 between I-5 and the proposed access roadways for Fountain Wind. There is one creek crossing along SR 299 between the proposed access roads for Fountain Wind and Burney (Burney Creek Bridge 6-12). Weight limits for these bridges will be determined during the logistical route analysis to be conducted once a final turbine model has been selected.

Regarding horizontal curves, a desktop review of SR 299 shows three curves with radii less than 1,000 feet. SR 299 has a curve with a radius of approximately 600 feet near Montgomery Creek. SR 299 has a curve with a radius of approximately 700 feet near Hillcrest. Near Burney, there appears to be a curve with a radius of approximately 650 feet.

The speed limit along SR 299 is 55 mph for trucks with three or more axles, but there are places along SR 299 where the advisory speed drops to 40 and 45 mph approaching the sharper curves. Also, there are passing lanes at some of the steeper inclines.

Further, turbine component delivery specifications require a minimum horizontal curve of 200'. Therefore, while it appears there is little risk that the turbine delivery vehicles will not be able to navigate the existing geometry of the highway, a route survey by a permit service and a "swept path" analysis will be able to verify this statement and support Caltrans authorizations.

Upon approach to the site, turbine deliveries will be directed to proceed directly to the appropriate turbine pad sites for offloading. Construction access points off SR 299 will provide adequate turning radii to ingress/egress the site with minimal time required for turning maneuvers. Because the turbine pad sites are distributed throughout the site and not directly adjacent to state SR 299, if queuing were to occur, it is expected that the queues would take place on access roads near the turbine pad sites – wholly within the project site.

#### 7.0 CONSTRUCTION TRAFFIC MANAGEMENT PLAN

A Construction Traffic Management Plan (CTMP) will be developed and presented once the construction contractor has been selected. Upon selection, the contractor will review the site and available aggregate and water sources. The contractor will provide input on project staging and equipment delivery that will be incorporated and used to define the CTMP. Therefore, the CTMP will be specific to the construction approach and phasing, as well as specific to the location and environment, of the project area.

Specifically, the CTMP will be implemented for the Fountain Wind Project site during construction to address the safety requirements of the project. This plan will reflect the assessment conducted to define the plan, as well as the details of the plan itself. The CTMP will include:

- A consideration of the existing traffic, pedestrian, and cycling activity along SR 299 as well as the related road/intersection operations;
- A determination of the route that minimizes conflicts with emergency vehicles between staging/loading sites and proposed wind turbine sites;
- An articulation plan to manage construction traffic in a manner that minimizes the potential impact on local wildlife;
- The specific measures to be implemented during the construction phase of the project, which incorporate the principles and guidelines of the Caltrans Transportation Permits Manual; and
- Any additional environmental protection measures that the project proposed to further avoid or minimize potential impacts to traffic and safety. Appendix E of this report includes a list of potential Environmental Protection Measures (EPMs) that may be applicable for inclusion in the CTMP prepared for the Fountain Wind Project.

The Applicant Team will work with the contractor to ensure that key transportation considerations related to residents and businesses along SR 299 and within Shasta County and the planned construction of wind turbines are sensitive to the following:

- Potential conflicts between construction-related traffic and the day-to-day activities associated with the local area, including local travel by car, school bus, bicycle, or on foot as well as the movement of logging equipment;
- The need to ensure that residents and emergency response agencies are aware of the temporary conditions during construction that could affect traffic mobility and safety in various parts of the county depending on the location of the work sites; and.
- The need to ensure that local wildlife and its habitat are not adversely impacted by the construction traffic associated with the project.

The Applicant Team will work with the contractor to develop a public information strategy to ensure that communication of the traffic plan will be shared with the residents and businesses in the area. This includes installing Road Restriction Notice Signs near all work sites a minimum of one week before any lane closures or detours. This will allow residents to effectively plan their routes, and mitigate the overall impact caused by the work and deliveries to the site. An activity forecast report shall be provided to the California Energy Commission and Shasta County outlining construction activity a minimum of two weeks before any work commences.

#### 8.0 ANALYSIS

The traffic-related impacts of the Fountain Wind Project were evaluated using three different analyses across two different project phases (during and after project construction). **Vehicle Miles Traveled** (VMT) were calculated per the requirements of California Senate Bill 743. **Intersection Level of Service** (LOS) was analyzed at the intersections of the two Project access roads with SR 299. **Left Turn Warrants** were also evaluated at the intersections of the two Project access roads with SR 299.

#### 8.1 VMT ANALYSIS

California Senate Bill 743 was signed into law in 2013 in order to utilize VMT to review the potential impact of land use projects on the State Highway System. As of July 1, 2020, the state of California has fully adopted a change in the California Environmental Quality Act (CEQA) significant impact methodology for transportation impacts to use VMT as opposed to LOS. The intent of SB 743 is to align transportation impacts under CEQA with the State's overall goals of increasing long-term sustainability by encouraging infill development, increasing reliance on mass transit, and reducing greenhouse gas (GHG) emissions. VMT analysis focuses on automobile and light-duty truck trips, although heavy duty truck trips can be included in the analysis for convenience (OPR, 2018). Construction trips typically are not analyzed in a VMT analysis because they are temporary and would not impact overall per capita VMT in the region; however, they are provided here for informational purposes. Note also that CEQA Guidelines section 15064.3 (b)(3) suggests that analysis of VMT from construction traffic be qualitative. This same section also suggests that the focus is on automobile (e.g. passenger vehicle) trips.

VMT is calculated by multiplying the amount of daily traffic on a roadway segment by the length of the segment, and then summing all the segments (see **Exhibit 4**). Westwood estimated the number of trips taken by trucks and other vehicles to haul equipment, material, aggregate, turbines, concrete, water for construction and operations, and employees. Westwood then estimated the mileage that would be logged to perform these trips during the two-year construction period.

For this analysis, it was assumed that deliveries of manufactured components (i.e., turbine components and blades) would likely originate from the east and travel from Reno, Nevada to the site via US 395, SR 139, and SR 299. Similarly, the Project identified other equipment and materials that would be delivered before construction from the city of Redding to the west and the town of Burney to the east. From these calculations, it is estimated that the total VMT during the construction period will be **6,606,171 vehicle miles traveled** (see **Exhibit 4**) based on the following number of workdays and total VMT of two-way trips for each trip category:

- 250 days for commuters (1,256,844 total two-way VMT)
- 250 days for equipment (13,100 total two-way VMT)
- 250 days for aggregate trips (534,580 total two-way VMT)
- 250 days for turbine deliveries (2,025,068 total two-way VMT)
- 250 days for concrete deliveries (257,000 total two-way VMT)
- 250 days for miscellaneous materials deliveries (27,779 total two-way VMT) and;
- 250 days for water deliveries (2,491,800 total two-way VMT)

As provided above, a large portion of VMT results from the delivery of turbine components, due to the long distance traveled from Reno, NV. Water deliveries and construction commuter trips are the next largest contributor to construction VMT, due to the number of daily trips from construction workers. However, water deliveries represent a conservative scenario, and most of these workers are expected to come from the region and would not represent a large influx of commutes, but rather a redistribution from other construction sites in the region to the Project site. Note again that most of these vehicle miles travelled are temporary and would cease to occur following completion of construction. SB 743 was enacted to chiefly address on-going sources of greenhouse gas emissions from land use projects such as residential, office, and retail developments and not to address temporary construction traffic for renewable energy projects.

The post-construction VMT would be much less. Westwood assumed there would be five (5) vehicles per day utilized for operations and maintenance and water delivery for operations of the wind farm. It is assumed that each vehicle would be traveling an average of 60 miles per day from their place of origin to the wind farm for inspection, maintenance, and operation, and then return. Therefore, the total VMT per day post-construction is estimated to be **240 vehicle miles traveled**. Assuming a vehicle occupancy of two (2) full-time employees per vehicle, the per capita daily VMT for the permanent employees at the facility is estimated to be approximately **30 vehicle miles per day**.

It is recommended that in adopting a VMT significance threshold for this project, the California Energy Commission choose a metric that takes into account that the ultimate goal and purpose of the project is to create a utility-scale electricity generation source with near-zero GHG emissions and to displace the generation of electricity through the use of GHG-emitting fossil fuels. As set forth in the Shasta County Draft EIR on VMT:

The intent of SB 743 is to encourage land use and transportation planning decisions and investments to reduce VMT and thereby contribute to the reduction of GHG emissions, as required by Assembly Bill 32. Therefore, for purposes of this Project, the Project's impact to VMT would be significant if it would conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs. The evalution of Impact 3.10-2 in Section 3.10, GHG Emissions,

concludes that the Project would result in a less-than-significant impact related to a potential conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions, too would result in a less-than-significant transportation impact relating to VMTs. (Shasta County Draft EIR at p. 3.14-12.)

Naturally, travel to and from the project is temporarily increased during construction. However, long-term travel to the project is negligible post-construction. Any potential reduction in VMT would likely occur in the construction phase, through the implementation of various Transportation Demand Management (TDM) programs that are designed to reduce trips. These programs are anticipated to provide other benefits such as a reduction in travel times, parking requirements, traffic congestion, and air pollution. All of these benefits can be achieved by reducing trips and shifting travel times and modes. Measures such as carpooling for construction workers between the site and hotels/residences in both Redding and Burney can reduce the total VMT during construction. Given the location of the site, carpooling is likely the only feasible method for reducing construction VMT, as there are no public transit facilities that serve the project site.

Additionally, most workers will arrive at the site in the early morning, and stay on-site all day, leaving in the late afternoon or early evening outside of peak hours. Accordingly, project construction will not adversely affect traffic conditions (as discussed further below).

Finally, heavy construction equipment and wind turbine components (e.g., blades, nacelles) would be delivered to the Project Site using area roadways, some of which may require transport by oversized/overweight vehicles. The transport of these materials would require Caltrans review. Further, heavy equipment associated with these components would not be hauled to/from the site daily but rather would be hauled in and out on an as-needed basis. Heavy vehicle deliveries also will arrive outside peak hours to facilitate a smooth flow of traffic. The Project CTMP, would identify anticipated construction delivery times and vehicle travel routes to avoid potential conflicts with other travelers. Accordingly, no significant environmental impacts are anticipated from the use of oversized vehicles to transport large turbine components.

#### 8.2 PROJECT ACCESS LOS ANALYSIS

A **Level of Service** (LOS) analysis measured delay per vehicle and operational performance. The LOS analysis was performed using the traffic engineering industry-standard software package *Synchro/SimTraffic* for AM and PM peak hour conditions for periods during and after construction. The LOS analysis in *Synchro/SimTraffic* is based on the Two-Way Stop Control (TWSC) methodology from the 6<sup>th</sup> edition of the Highway Capacity Manual (HCM). It is noted that LOS-A generally represents free-flow conditions, while LOS-F generally represents gridlock conditions.

To estimate peak hour conditions, Westwood used the peak hour volumes that were collected on April 4, 5, and 6 (see **Appendix A**). Since the observed AADT along the segment was significantly lower than the AADT collected by Caltrans in 2021, these peak hour volumes were multiplied by a factor of 1.55, consistent with the difference in observed AADT along this segment and the 2021 Caltrans AADT collected along this segment. For the commuter traffic, it was assumed that 60% of the peak-hour background traffic would be coming to and from the west, while 40% would be coming to and from the east.

Directional distribution of the construction, equipment, and material delivery trips was made based on the number of projected wind turbines along each access road. Therefore, it was assumed that 56% of the construction trips would use the West Access Road, and 44% would use the East Access Road. Construction trips were assigned based on these percentages.

The CTMP, that would be adopted for the project will specify that heavy vehicle trips will occur outside the peak hours and only commuter trips will affect the peak hour traffic movements. Consistent with information provided by the Applicant, seventy-five percent (75%) of the commuting workers are anticipated to arrive during the morning hour of 6am – 7am. Forty percent (40%) of the commuting workers are anticipated to leave the site during an afternoon peak hour of 5pm – 6pm.

Figure 1 illustrates the existing conditions at each project access. Proposed conditions during and after construction are shown on Figure 2.

The background (no-build) peak hour conditions are illustrated on Figure 3. Figure 4 shows the resulting turning movements projected during the construction phase of the project. The red numbers indicate the AM peak hour directional flow (either left turn, through traffic, or right turn). Likewise, blue numbers represent the PM peak hour turning volumes. Table 2 lists the resulting levels of service by both intersection and movement in the construction phase of the project.

Table 2 - Level of Service - During and Post Construction

		СО	NSTRUCTIO	N CONDITI	ONS	POST (	CONSTRUCT	ION COND	ITIONS
INTERSECTION	TRAFFIC	Α	M	P	M	Α	M	P	M
	MANEUVER	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
INTERSECTION CO	NTPOL		TW	'SC			TW	SC	
INTERSECTION CO.	WI KOL		Unmit	gated			Unmiti	gated	
	Overall	Α	1.0	Α	1.3	Α	0.2	Α	0.2
	NBL	Α	0.00	В	10.10	Α	0.00	В	10.10
	NBR	Α	0.00	Α	0.00	Α	0.00	Α	0.00
#1 SR-299 and West Access	EBT	Α	0.00	Α	0.00	Α	0.00	Α	0.00
	EBR	Α	0.00	Α	0.00	Α	0.00	Α	0.00
	WBL	Α	7.70	Α	0.00	Α	7.30	Α	0.00
	WBT	Α	0.00	Α	0.00	Α	0.00	Α	0.00
INTERSECTION CO	NTROL	TWSC				TWSC			
INTERSECTION CO	NIKOL		Unmit	gated		Unmitigated			
	Overall	Α	0.8	Α	1.2	Α	0.2	Α	0.2
	NBL	А	0.00	В	10.10	Α	0.00	В	10.10
	NBR	А	0.00	Α	0.00	Α	0.00	Α	0.00
#2 SR-299 and East Access	EBT	Α	0.00	Α	0.00	Α	0.00	Α	0.00
	EBR	А	0.00	Α	0.00	Α	0.00	Α	0.00
	WBL	Α	7.50	Α	0.00	Α	7.50	Α	0.00
	WBT	Α	0.00	Α	0.00	Α	0.00	Α	0.00

(Source: Westwood Professional Services, 2023)

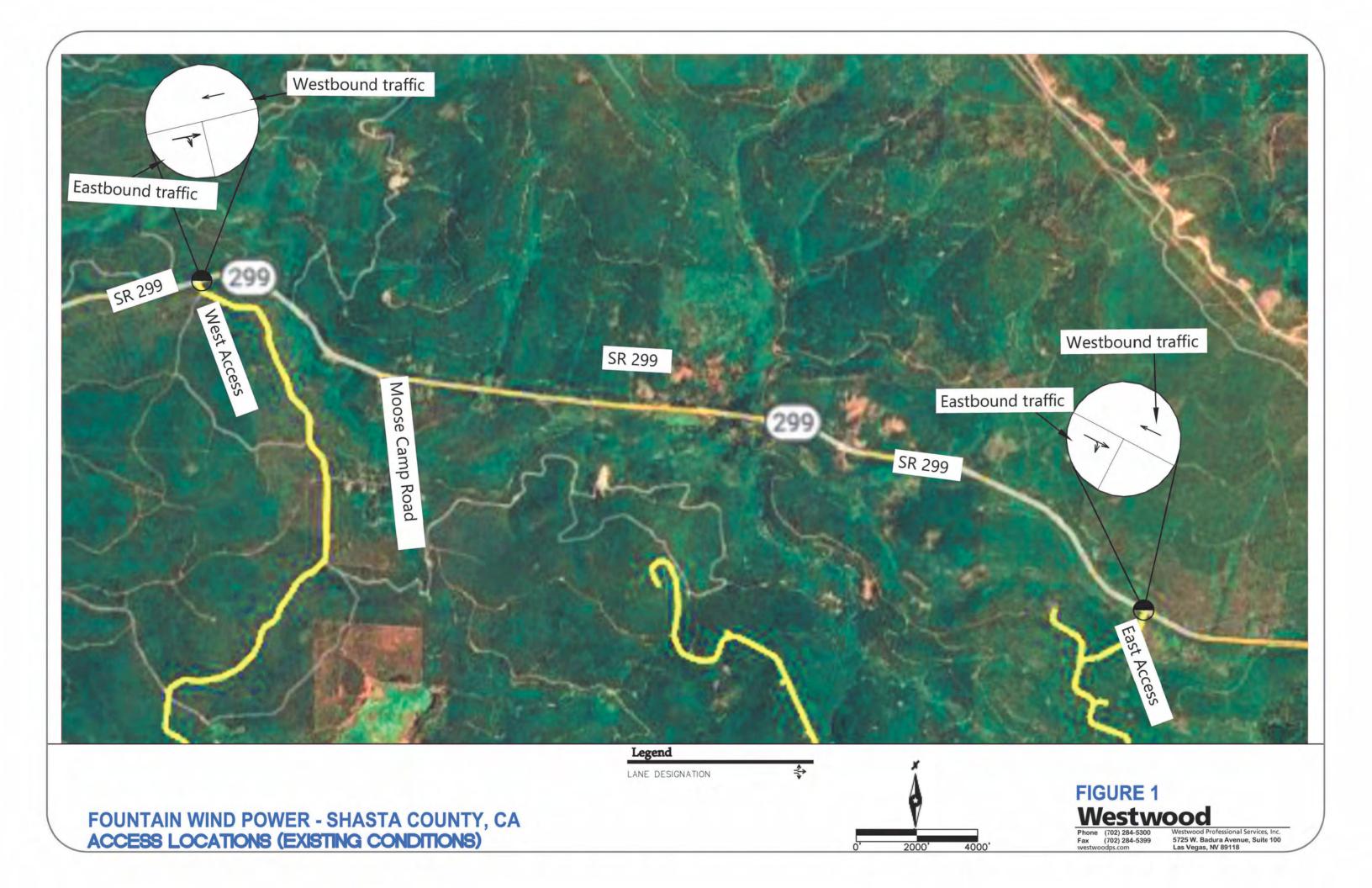
NBL – Northbound Left; NBR – Northbound Right; EBT – Eastbound Through; EBR – Eastbound Right; WBL – Westbound Left; WBT – Westbound Through

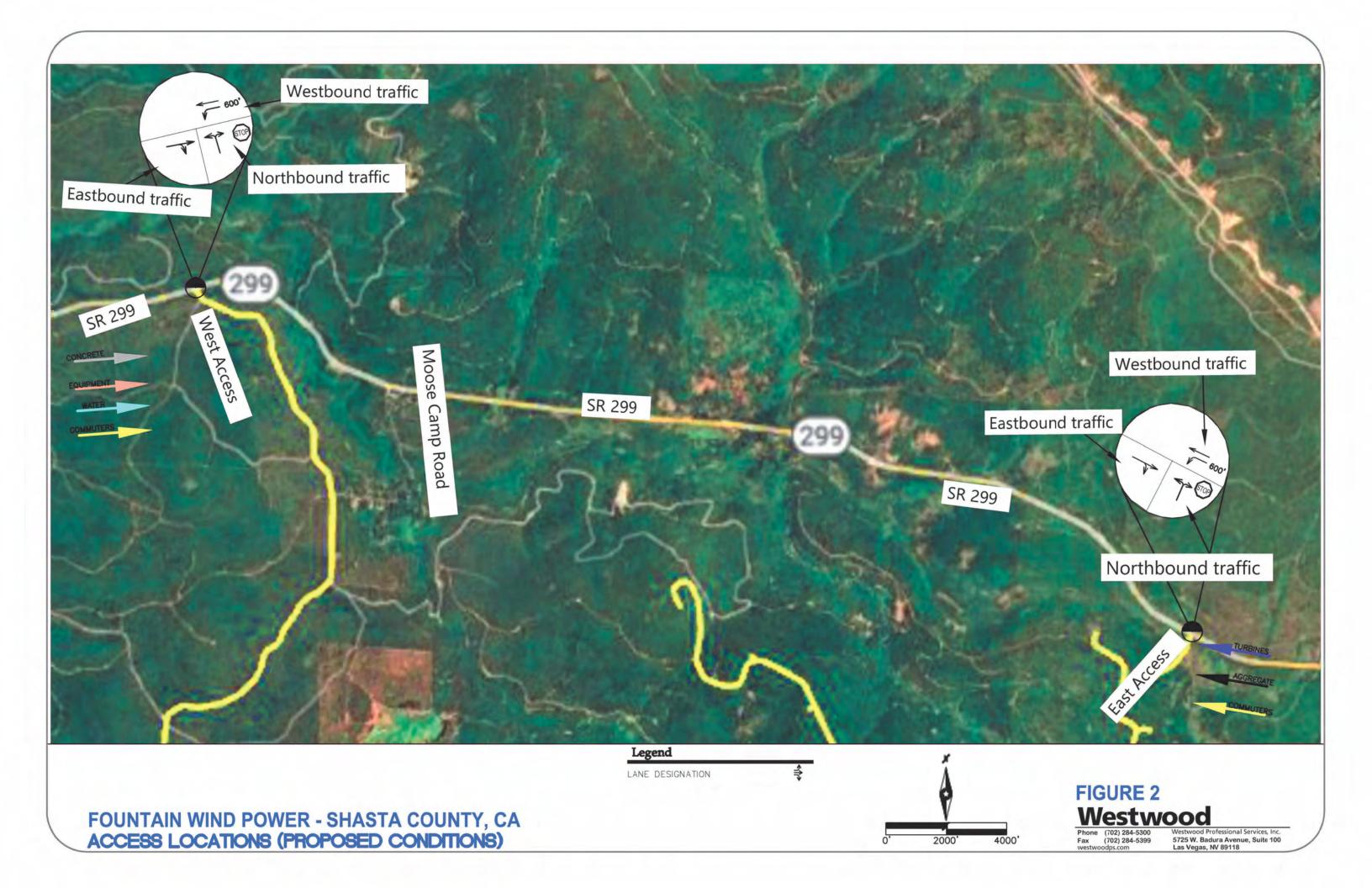
In the post-construction (i.e., day-to-day operation and maintenance) scenario, there are a minimal number of employees accessing the site for operations and maintenance activities. Therefore, it was assumed a total of eight (8) operations and maintenance workers in four (4) commuter vehicles daily would be entering any of the access points during the AM peak hour from the east and west, and four would be exiting east/westbound during the PM peak hour.

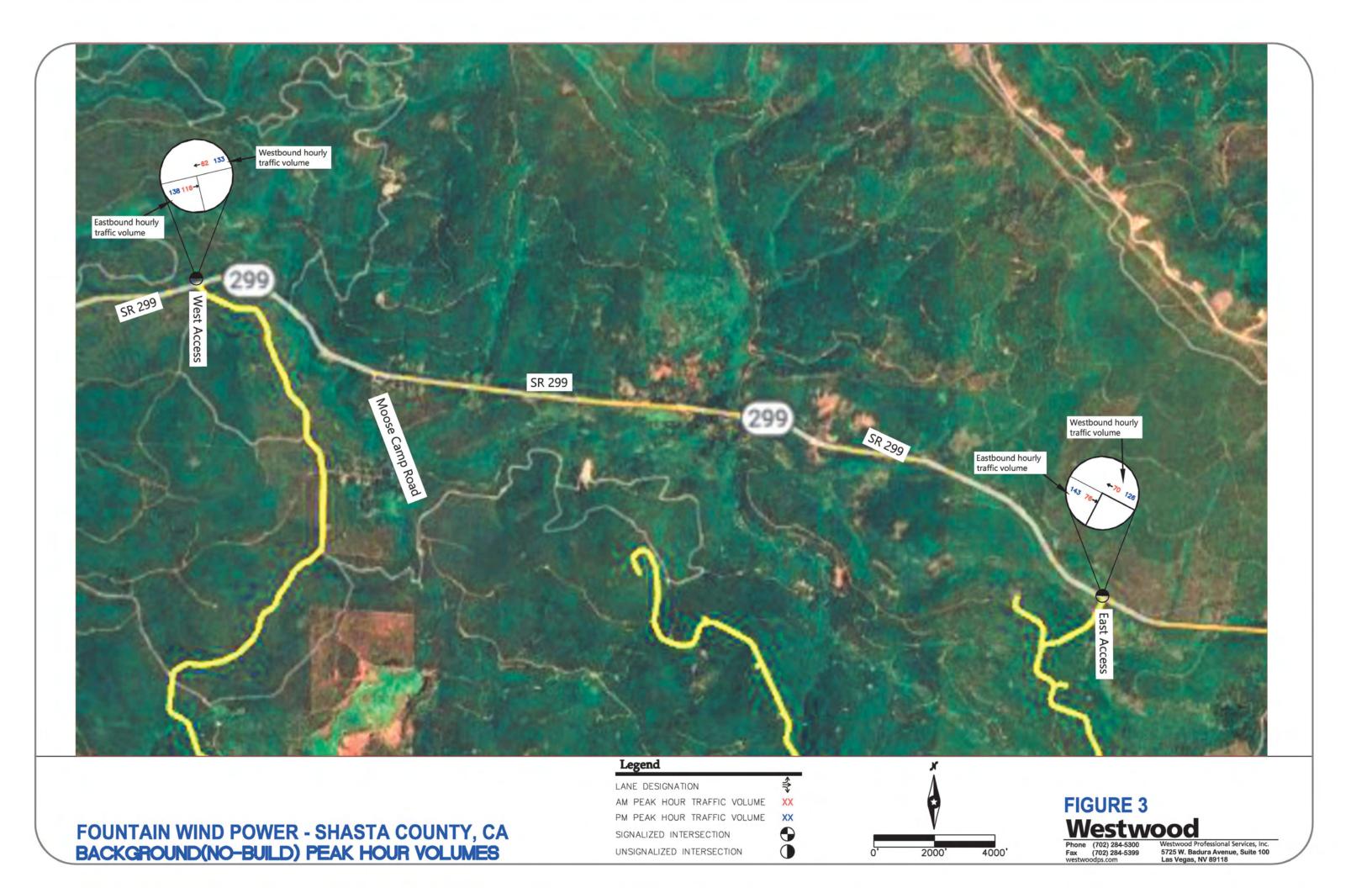
Figure 5 shows the resulting turning movements projected during the post-construction phase of the project. Table 2 also lists the resulting levels of service by both intersection and movement in the day-to-day operation and maintenance of the project.

Detailed Level of Service calculations are included in Appendix F.

Commuting vehicles are anticipated to enter and exit the site during the AM and PM peak hours with minimal delay under construction conditions and post-construction conditions.



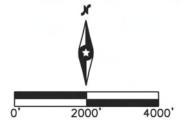






FOUNTAIN WIND POWER - SHASTA COUNTY, CA CONSTRUCTION PEAK HOUR VOLUMES

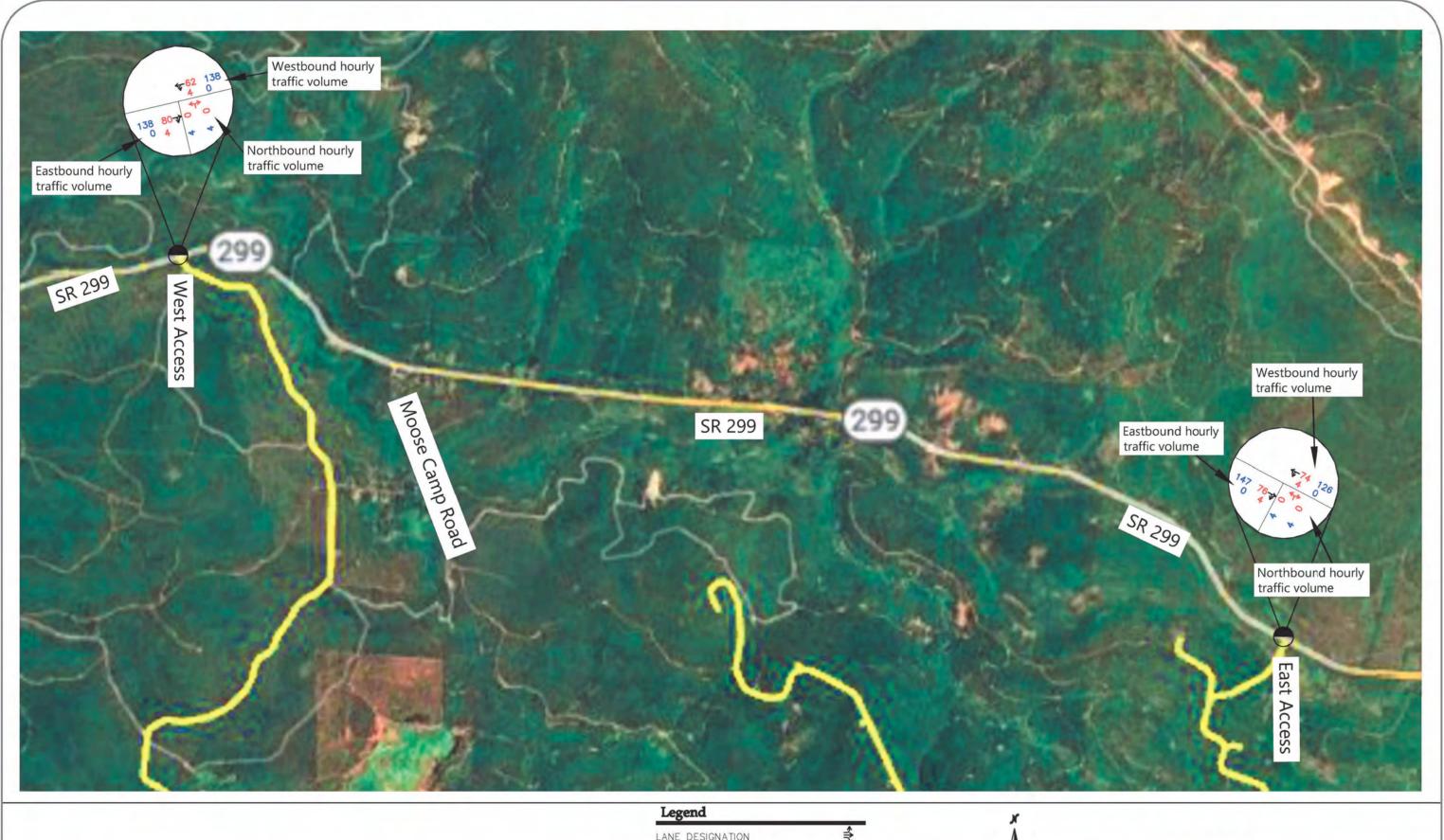
LANE DESIGNATION AM PEAK HOUR TRAFFIC VOLUME PM PEAK HOUR TRAFFIC VOLUME XX SIGNALIZED INTERSECTION UNSIGNALIZED INTERSECTION



## FIGURE 4 Westwood

Phone (702) 284-5300 Fax (702) 284-5399 westwoodps.com

5725 W. Badura Avenue, Suite 100 Las Vegas, NV 89118



FOUNTAIN WIND POWER - SHASTA COUNTY, CA POST CONSTRUCTION PEAK HOUR VOLUMES

LANE DESIGNATION

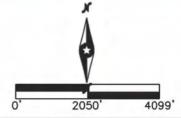
AM PEAK HOUR TRAFFIC VOLUME

PM PEAK HOUR TRAFFIC VOLUME

SIGNALIZED INTERSECTION

UNSIGNALIZED INTERSECTION





# FIGURE 5 Westwood

Phone (702) 284-5300 Fax (702) 284-5399 westwoodps.com

Westwood Professional Services, Inc. 5725 W. Badura Avenue, Suite 100 Las Vegas, NV 89118

#### 8.3 PROJECT ACCESS LEFT TURN LANE WARRANT ANALYSIS

To test whether any access required left turn lanes, Westwood utilized <u>AASHTO Green Book</u>, 2018 Edition Table 9-25, "Suggested Left-Turn Treatment Guidelines Based on Results from Benefit-Cost Evaluations for Intersections on Two-Lane Highways in Rural Areas". Westwood calculated whether any project intersection met the guidelines for bypass lanes or left turn lanes on the two-lane highway. **Appendix G** of this document shows that left turn lanes are warranted at both access points during the AM and PM peak hour in the construction scenario. This analysis assumes that peak hour traffic will only be impacted by commuter traffic for the project. Shifting the arrival of at least seventy-five percent (75%) of the commuting AM hour traffic to 6am – 7am, carpooling, and adding ingressing left turn lanes for commuters traveling to the site from Burney would further reduce congestion at project access intersections. Commuters from Burney could also be directed to drive westbound past both accesses and enter the Hillcrest Rest Area located approximately 1.6 miles to the west of the project site to turn around and head eastbound to turn right into the project site.

<sup>&</sup>lt;sup>2</sup> Table 9-25, Suggested Left-Turn Treatment Guidelines Based on Results from Benefit-Cost Evaluations for Intersections on Two-Lane Highways in Rural Areas, <u>A Policy on Geometric Design of Highways and Streets</u>, 7<sup>th</sup> Edition, American Association of State Highway and Transportation Officials, Washington, DC, 2018.

#### 9.0 SIGNAGE

The number of trucks turning from SR 299 onto the access roads may require advance warning signs based on sight distance. Caltrans may require any of the following to signs to be installed along SR 299 in advance of the access roads during construction.



(These signs may be black on orange for construction)

#### 10.0 SUMMARY

During construction, the project will employ an estimated maximum number of 199 workers/day during the peak period of construction, which include construction workers, project management staff, equipment operators, survey staff, and delivery vehicle drivers during the peak period. Thus, over the estimated two-year construction period, the total number of all two-way trips is approximately 125,413 trips.

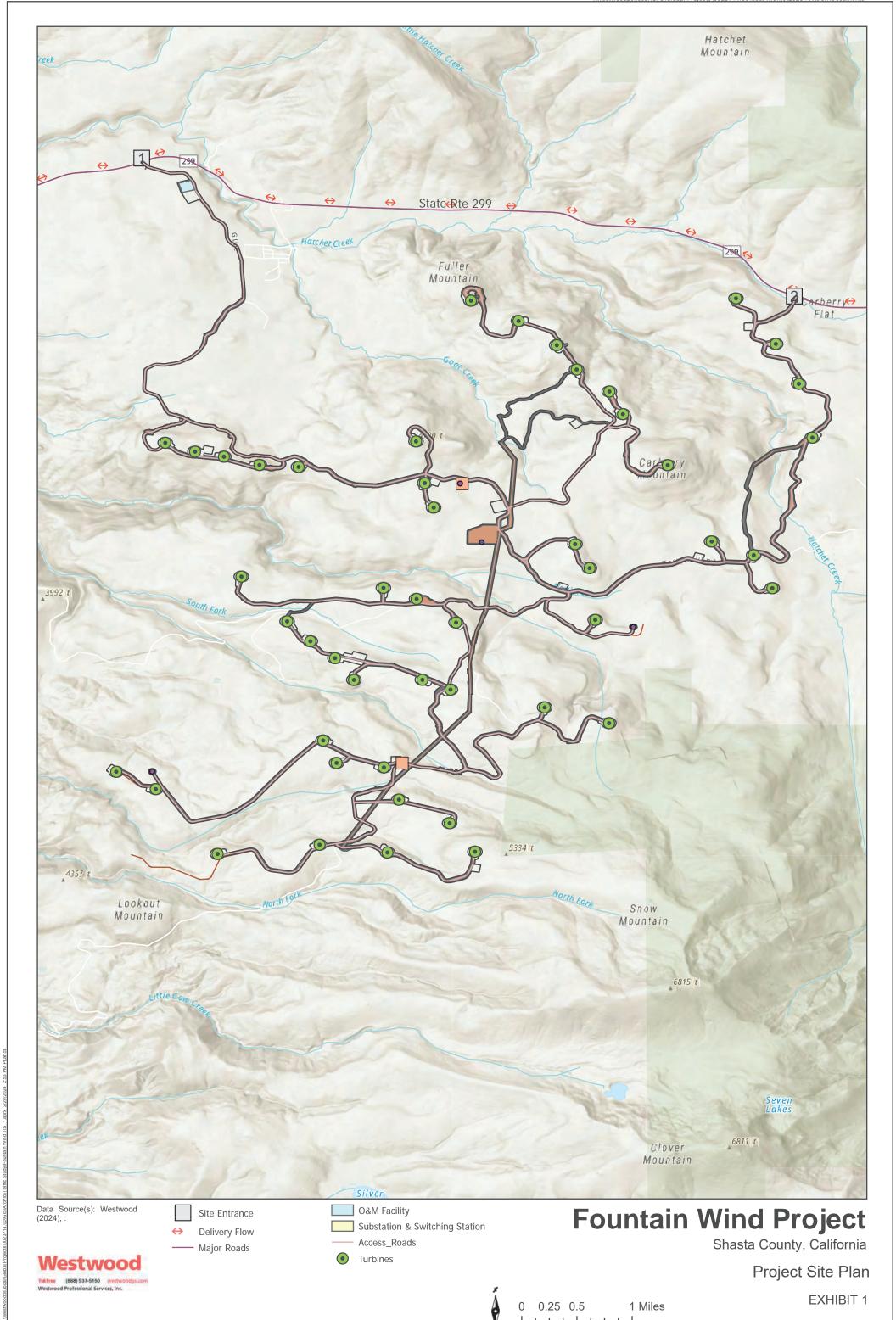
After construction of the wind farm, operations and maintenance traffic will be limited to a few passenger vehicle trips per day.

Westwood estimated that the total VMT during the construction period will be 6,606,171 vehicle miles traveled. The total VMT per day post-construction is assumed to be 340 vehicle miles traveled. Per capita daily VMT during operations is estimated to be 30 miles per day. It is recommended that in adopting a VMT significance threshold for this project, the California Energy Commission choose a metric that takes into account that the ultimate goal and purpose of the project is to create a utility-scale electricity generation source with near-zero GHG emissions and to displace the generation of electricity through the use of GHG-emitting fossil fuels. Naturally, travel to and from the project is temporarily increased during construction. However, long-term travel to the project is negligible post-construction. Any potential reduction in VMT would likely occur in the construction phase, through the implementation of various Transportation Demand Management (TDM) programs that are designed to reduce trips. These programs are anticipated to provide other benefits such as reduction in travel times, parking requirements, traffic congestion, and air pollution. All of these benefits can be achieved by reducing trips and shifting travel times and modes. Measures such as carpooling for construction workers between the site and hotels/residences in both Redding and Burney can reduce the total VMT during construction. Given the location of the site, carpooling

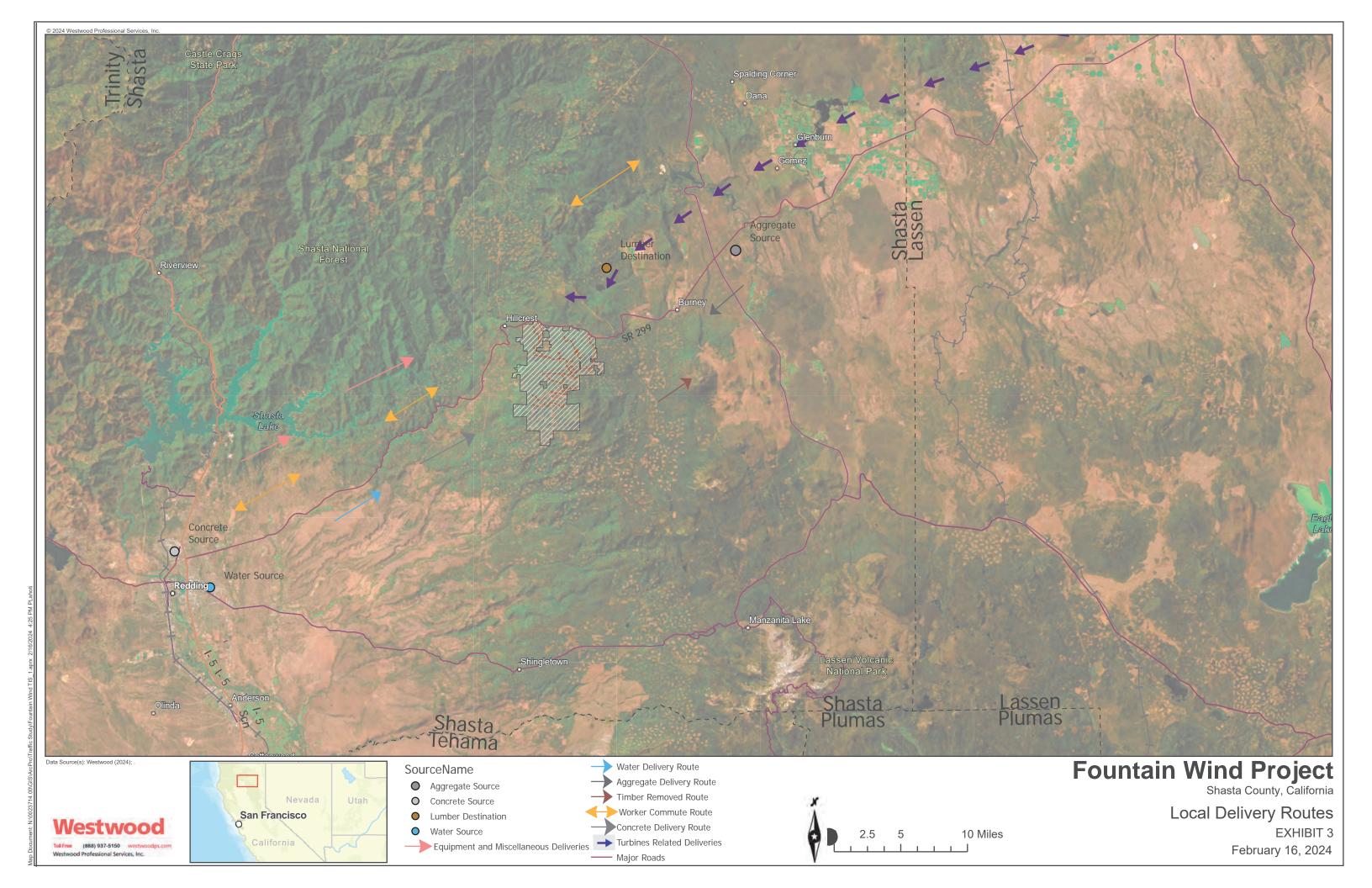
is likely the only feasible method for reducing construction VMT, as there are no public transit facilities that serve the project site.

Commuting vehicles are anticipated to enter and exit the site during the AM and PM peak hours with minimal delay under construction conditions and post-construction conditions.

Both project access intersections meet the warrants for left turn lanes during the AM and PM peak hour in the construction scenario. Shifting the arrival of at least seventy-five percent (75%) of the commuting AM peak hour traffic to 6am – 7am, promoting carpooling, and adding ingressing left turn lanes for commuters traveling to the site from Burney would further reduce congestion at project access intersections. Commuters from Burney could also be directed to drive westbound past both accesses and enter the Hillcrest Rest Area located approximately 1.6 miles to the west of the project site to turn around and head eastbound to turn right into the project site.



Map Doc



	TZT'909'9	TMV JATOT	1		125,413	6/6′19	sqinT lstoT
Assume all trips from SR 299 West- Schedule to avoid peak hours	7,491,800	J	snolls2	086'669'66	758'67	54,926	1916W letoT
Based on 5000 gallons per tank for three tanks drained and filled twice (i.e, once per year)	008	09	0	33400	91	8	Water (Operations)
Based on Laydown areas Based on requirements for fire suppression	000'1 730'000	0S 0S	0	33,400	97 0 <del>7</del> 2/7	13 0/5,1	Water (Vegetation establishment) Water (Fire Suppression)
Based on 10000 gallons/acre of temporary disturbance areas	000′950′τ	05	0	33,400	21,120	09S'0T	Water (Dust Control)
Based on 37.5 gallons/CY of aggregate (Roads, Laydown, etc.)	005′26ζ'τ	09	0	33,400	056'57	17,975	Water (Compaction)
sil trips from SR 299 West - Schedule to avoid peak hours		J			955	872	Total Miscellaneous Deliveries
Based on weekly maintenance visits Based on 2.5 tons/acre	614'T 002'S	0S 0S	12,800	009'ZS 000'0S	34 104	ZS ZS	Sanitation Plant Stock, Seed and Mulch
Based on 2000 Gallons/week ea. of diesel on-road & off road	7,500	09	000′∠	000'97	05	52	Fuel Deliveries
10 Trucks	7,600	09	50,000	000'09	75	97	Micellaneous Consumables
Culvert Extensions and new culverts Based on 30,600 linear feet of fence at 10.65 pounds/ ft	400	0S 0S	000'St	000,08	14t	L 7	CMP Culverts Chain Link Fence
Includes Control Building, switch gear, capacitors, etc.	000′τ	OS	000'Str	000'08	70	70	Elecrical Equipment - Switchingsubstation
Includes Control Building, switch gear, capacitors, etc.	τ'000	09	000'57	000'08	70	70	Electrical Equipment - Substation
Based on 200,000 Pounds of Structural Steel Based on 200,000 Pounds of Structural Steel	00t	0S 0S	000'St	000,08	8	b b	Structural Steel - Substation Structural Steel - Switching Substation
Based on 5460 square foot prefabricated metal building	2,000	09	000'St	000'08	07	50	sleineteM gnibling
sard on 25 reuses of forms Based on 45 tons per turbine	009'6 76T	0S 0S	000'St	000,08	3.84 192	96 7	Formwork Reinforcing Steel (Rebar)
		03				2 : 2/2	
rioof Abaq biove ot 9 West - Jea West - Mary Riban Sall trips from SR 299 West - Ababa Riban Sall trips are seen as a seen as	727,000	J	sbYuO	976'77	0 <del>7</del> 1'S	7,570	Total Concrete Deliveries
Assume Pad 9' x 9' x 1' Based on foundation wall 78' x 70' x 1' thick x 5' deep + 4" floor slab	1,300 4,800	0S 0S	40,000 12,180	000'69 081'17	97 96	13	Concrete for Transformer Pads Concrete for O&M Building
I soncrete foundations (terminations & angles)	0087	05	11,332	40,332	05	5Z	Concrete for Overhead Collection System Pole Foundations
Based on 40' container each with 6 foundation pies	001,4	09	000'07	000'69	78	[7	Concrete for Switching Station Foundations
2 trucks 2 trucks	700 t	0S 0S	000′07	000'69	78 7	7	Concrete Pump Trucks Concrete for Substation Foundations
48 turbines	240,000	0\$	000'01	000'69	008′₺	7400	Concrete for Turbine Foundations
SURGER PARTIES OF THE STATE OF	poolege/=	1	cocle		coclo	LC7/7	SAIJANIAA BANBIAN ANGARA INDO
round seaq biove of 9lubaha2 - ona8 mont 26E-2U bne tea9 E9S R2 mont eqist lle amussA			686'8		606'S	7,234	Total Turbine Related Deliveries
Based on GE 3.4 137 Pilot Cars for Wind Turbines Blades	021,771 084,807	522 522	052'28		757T 788	92S <del>111</del> T	Wind Turbine Blades (3) Pilot Cars for blades ( Front and Back)
Pilot Cars for Wind Turbines	S <del>1</del> 9'6SZ	522			6267	7/460	Pilot Cars ( Front and Back)
Based on 4 miscellaneous deliveries per turbine	076′26	522	000'57	000'08	384	767	Miscellaneous Turbine Components
Based on 3.5 MW transformer	7,550 2,550	722 722	000'57	000,08	96 0T	8 <del>7</del>	səlof JəM sıəmnolznerT
Assume 750' wire span, 1 - 8000 pound Pole per trailer	39,270	522	12,000	27,000	⊅ST	LL	Transmission Line Poles
Based on 3 conductors, 2.1 pounds/foot Assume 250' wire span, 4 - 2000 pound Poles per trailer	6,120 6,120	722 722	000'ST	000,08 30,000	770 770	25 21	Wire and Cable - Overhead Collection System Overhead Collection Line Poles
Based on 3 conductors, 1.9 pounds/foot	086,91	522	000 SV	000,08	94	38	Wire and Cable - Underground Colletion System
Based on GE 3.4 137	74'480	522	050'88		96	87	duH ənirən TiniV
Based on GE 3.4 137, HH 110m Based on GE 3.4 137	24'480 54'480	722 722	002'0ST 006'98		96 96	87 87	Wind Turbine Tower Top Section Wind Turbine Nacelle
Based on GE 3.4 137, HH 110m	084,450	522	112,850		96	87	Wind Turbine Tower Upper Mid-Section
Based on GE 3.4 137, HH 110m Based on GE 3.4 137, HH 110m		522	150,100		96 96	87 87	Wind Turbine Tower Duds Section
MOTT HA TELL C 39 go board	74,480	722	153,400		90	87	Wind Turbine Tower Base
Assume all trips from SR 299 East - Schedule to avoid peak hours	234,580	]			672'97	13,363	zeinevileG estegenggA lestoT
Assume all trips from SR 299 East - Schedule to avoid peak hours	091'TS	]	suoT	58,129	5,558	1279	Total Aggregate Deliveries for structures
Based on an 11 acre battery storage system	78,840	707	00Z'0ħ	000'08	77442	17/	Switching Substation Rock
Based on a 3.5 acre substation Based on a 3.5 acre Ο&M/Field Office Area	007'6	70 20 20	002,04 40,200	000,08	09t/ 9S9	328	Substation Rock Field Office/O&M Rock
Assume all trips from SR 299 East - Schedule to avoid peak hours		1	000.00	000 08			
					171,41	12,084	Total Aggregate for Compaction Deliveries
Bard Offlice Miller Area Sasd on 5 sere Stiring Substation	07Z'9Z 07Z'8	70 70	40,200	000,08	TTE'T	817 818	ejseganggA aoifiO blaiT/M.8O eganggA noisetsdu2 gaidchiw2
Based on 18 staging areas totaling 44 acres Based on a 5 acre substation	076'9L	70 70	40,200	000,08	3,846 5,846	817 1'853	Temporary Laydown Area Aggregate  Temporary Laydown Area Aggregate
Based on 42 miles of access roads, 8 trucks	022,035	70	40,200	000,08	110,81	500'6	Access Road Aggregate
Based on perimeter control on one side of road length Based on 2000 feet of public road improvements, 6" depth	7,420	70	40,200	000'08	121	09	Erosion and Sediment Control Materials Public Road Aggregate
dtonal hear in abis and no lastons sateminan no bases	091	50	10,000	45,000	8	7	Materials Materials
	13,100	OS	J		797	172	sqirT shamqiupa letoT
earune all trips from SR 299 West - Schedule to avoid peak hours	001'1	OS	40,000	000′09	77	ŢŢ	Mobile Home (Field Office)
		_					
4 nos. (Terrex Demag CC2800-1) Assume all trips from SR 299 West - Schedule to avoid peak hours	15,000 400	05		000't6L	7 <del>4</del> 0	tIIt t	Large Crawler Crane <b>Equipments</b>
.zon Δ1	1,200	05		000,86	8 77	Zī	thiJ moo8
Z nos.	500	05		25,000	₽	7	Hydro Axe
<i>t.</i> • •	002	0S 0S		117,235	38	۷ 6۲	Mobile Hydraulic Crane Rubber Tired Forklifts
19 nos. (Grove R1890E) ⊃ nos. (Forklift)	1 006'T		I	000'97	78 4	2	Concrete Pump Truck
2 nos. (Schwing 31 XT) 19 nos. (Grove RT890E)	T'600	09				L 4	Cable Reel Truck (Includes auger for pole foundations)
. On C. (Includes manifit basket for rigging poles) S nos. (Schwins £1 XT) S nos. (Grove RT890E)	00Z 200	0S 0S		000′9†	77		
2 nos. (Schwing 31 XT) 19 nos. (Grove RT890E)	500	09		000'9 <del>7</del> 55'000	8 8	t t	Trenching Equipment Backhoe Loader (includes setting collector system poles)
5 nos. (Cat 3.76F) 4 nos. (Wolfe 7000) 4 nos. (Cat 415F2) 7 nos. (Ichudes mahilit basket for rigging poles) 2 nos. (Grove RT890E)	00Z 00b 00b 00S	0S 0S 0S 0S 0S		74'000 25'000 96'520	8 8 70	t/ t/ S	Excavator Trenching Equipment Backhoe Loader (includes setting collector system poles)
on 16 (Wolfe 7000) A nos. (GAZLE 152) 7 nos. (Includes manlitt basket for rigging poles) 2 nos. (Grove RT890E)	700 200 400 400	0S 0S 0S 0S		22,000 52,000	8	t t	Trenching Equipment Backhoe Loader (includes setting collector system poles)
8 Cat CS418 Ja foos, (Cat 12MD) 3 nos, (Cat 12MN) 4 nos, (Cat 43PE) 7 nos, (Includes mailith basket for rigging poles) 7 nos, (Includes mailith basket for rigging poles) 7 nos, (Includes mailith asket for rigging poles) 19 nos, (Grove RT890E)	008 005, 006 004 007 007	05 05 05 05 05 05 05 05		000,14 000,22 025,000 000,4 000,4 000,4 000,4 000,4 000,4 000,4 000,4 000,4 000,4 000,4 000,4 000,4	97 9 97 97	t 5 8 8 8 8 7	Drum Compactor Skid Steer Loader Road Grader Excevator Trenching Equipment Backhoe Loader (includes setting collector system poles)
no. (Cat S 72D2) Tay no.; (Cat 12M) Son 2. (Cat 32DE) Son 2. (Cat 415P2) A nos. (Cat 415P2) A nos. (Includes manifit basket for rigging poles) Son 5. (Includes manifit basket for rigging poles) Son 5. (Includes manifit basket for rigging poles) Son 6. (Includes manifit basket for rigging poles)	005,1 000 002 005 005	05 05 05 05 05 05 05 05 05		000't7 000'75 052'99 27'070 000't	8 01 9 97 91 8	t 5 8 8 8 8	Skid Steer Loader Road Grader Excavator Trenching: Guipment Backhoe Loader (includes setting collector system poles)
2 skidders 7 deros. (Cat D7 Buildozers) 4 nod. (Cat G27K's) 8 Cat C541B 7 nos. (Cat 12kM) 7 nos. (Notle 7000) 7 nos. (Includes manlift basket for rigging poles) 7 nos. (Includes manlift basket for rigging poles) 7 nos. (Includes manlift basket for rigging poles)	007 0006 0007 0005 0005 0006'T 0008 0007'T	05 05 05 05 05 05 05 05 05 05		000'75 000'75 000'75 000'77 000'77 000'77 000'77 000'77	8 9 97 97 8 8 8 8	t 5 ε τ τ τ τ τ	Skidder Bulldozer (medium) Greper Drum Compactor Skid Steer Loader Skid Steer Loader Road Grader Excevator Trenching Equipment
14 nos. (Cat D7 Bulldozers) 4 nos. (Cat D7 Bulldozers) 8 Cat Cs41B 13 nos. (Cat 272D2) 5 nos. (Cat 272D2) 6 nos. (Cat 272D2) 7 nos. (Cat 415F2) 8 nos. (Cat 415F2) 9 nos. (Cat 415F2) 10 nos. (Cat 415F2) 10 nos. (Cat 415F2) 11 nos. (Cat 415F2) 12 nos. (Cat 415F2) 13 nos. (Cat 415F2) 14 nos. (Cat 415F2) 15 nos. (Cat 415F2) 16 nos. (Cat 415F2) 17 nos. (Cat 415F2)	007 000 000 000 000 000 000 008 000 000	05 05 05 05 05 05 05 05 05		000'75 000'75 000'75 000'77 000'77 000'77 000'75	8 01 9 97 91 8 8	ъ 5 8 8 т т т	Feller Buncher (logging))  Logging Trucks Skidder Bulldozer (medium)  Geraper Drum Compactor Skid Steer Loader Road Grader Excavator Trenching Equipment Jenchoel Loader (renching Equipment)
Relf-Bed Semi Trailers and Tractors 2 sAiddeers 5 sAiddeers 5 sAiddeers 5 sAiddeers 6 sand Tractors 6 sand (Cat 627k's) 4 nod. (Cat 627k's) 8 sac. (Cat 627k's) 2 sac. (Cat 627X's) 2 nos. (Cat 12XM) 3 nos. (Cat 12XM) 4 nos. (Cat 12XM) 4 nos. (Cat 12XM) 4 nos. (Cat 12XM) 4 nos. (Cat 12XF) 2 nos. (Cat 12XF) 2 nos. (Cat 415F2) 2 nos. (Cat 615F2) 2 nos. (Cat 615F2) 2 nos. (Cat 610F2) 2 nos. (Cat	00Z 00D 00b 00b 00c 00c'T 008 00b'T 00c 00cZ 00c	05 05 05 05 05 05 05 05 05 05 05		000'75 000'75 000'75 000'77 000'77 000'77 000'77 000'77 000'77	9t 8 87 97 97 8 8 8	# 5 E ET 7 7 T T 8	Logging Trucks Skidder Bulldozer (medlum) Scraper Drum Compactor Skid Steer Loader Road Grader Excavator Trenching Equipment
Relf-Bed Semi Trailers and Tractors 2 sAiddeers 5 sAiddeers 5 sAiddeers 5 sAiddeers 6 sand Tractors 6 sand (Cat 627k's) 4 nod. (Cat 627k's) 8 sac. (Cat 627k's) 2 sac. (Cat 627X's) 2 nos. (Cat 12XM) 3 nos. (Cat 12XM) 4 nos. (Cat 12XM) 4 nos. (Cat 12XM) 4 nos. (Cat 12XM) 4 nos. (Cat 12XF) 2 nos. (Cat 12XF) 2 nos. (Cat 415F2) 2 nos. (Cat 615F2) 2 nos. (Cat 615F2) 2 nos. (Cat 610F2) 2 nos. (Cat	00Z 00D 00b 00b 00c 00c'T 008 00b'T 00c 00cZ 00c	05 05 05 05 05 05 05 05 05 05 05		000'75 000'75 000'75 000'77 000'77 000'77 000'77 000'77 000'77	97 97 97 98 82 91 91 91	b b c c c c c c c c c c c c c c c c c c	Feller Buncher (logging) Feller Buncher (logging) Logging Trucks Skidder Bulldozer (medium) Greaper Drum Compactor Skid Steer Loader Road Grader Rechtoe Loader (includes everting collector system poles)
Total Calca Assume 60% trips from West (50 mile trip) and 40% trips from East (10 mile trip)  2 nos. (Cat 5228)  8 Fiat-Bed Semi Triallers and Tractors  2 schidders  14 nos. (Cat D7 Buildozers)  4 nod. (Cat 6274%s)  6 act C5418  13 nos. (Cat 1272D.)  3 nos. (Cat 1270D.)  4 nos. (Cat 1256.)  4 nos. (Cat 1256.)  4 nos. (Cat 1256.)  4 nos. (Cat 1257.)  5 nos. (Cat 1257.)  5 nos. (Cat 1267.)  7 nos. (Cat 1267.)  8 nos. (Cat 1267.)  9 nos. (Cat 1267.)  10 nos. (Cat 1267.)	007 000 000 000 005 006 006'T 000 000'T 000 000 000 000 000 000 000	05 05 05 05 05 05 05 05 05 05 05		000'75 000'75 000'75 000'77 000'77 000'77 000'77 000'77 000'77	8 8 0 9 9 9 9 9 8 8 8 7 9 9 7	# # # # # # # # # # # # # # # # # # #	Peak Number of Pick-up Truck Trips/Day  Equipment Feller Buncher (logging) Logging Trucks Skidder Skidder Buildozer (medium) Scraper Drum Compactor Skid Steer Loader Road Grader Road Grader Tenching Equipment Backhoe Loader Excavator
AVMT calcs Assume 60% trips from West (50 mile trip) and 40% trips from East (10 mile trip)  Z nos. (cat 5228)  Z nos. (cat 577ks)  A nos. (cat 677ks)  3 nos. (cat 1272D2)  3 nos. (cat 127D2)  4 nos. (cat 1272D2)  4 nos. (cat 127D2)  3 nos. (cat 127D2)  3 nos. (cat 127D2)  4 nos. (cat 127D2)  4 nos. (cat 127D2)  5 nos. (cat 127D2)  4 nos. (cat 127D2)  5 nos. (cat 127D2)  1 nos. (cat 127D2)  2 nos. (cat 127D2)  3 nos. (cat 127D2)  4 nos. (cat 127D2)  1 nos. (cat 127D2)  2 nos. (cat 127D2)  3 nos. (cat 127D2)  4 nos. (cat 127D2)  4 nos. (cat 127D2)  1 nos. (cat 127D2)  3 nos. (cat 127D2)  4 nos. (cat 127D2)  4 nos. (cat 127D2)  5 nos. (cat 127D2)	00Z 00D 00b 00b 00c 00c'T 008 00b'T 00c 00cZ 00c	05 05 05 05 05 05 05 05 05 05 05		000'75 000'75 000'75 000'77 000'77 000'77 000'77 000'77 000'77	97 97 97 98 82 91 91 91	b b c c c c c c c c c c c c c c c c c c	Feller Buncher (logging) Feller Buncher (logging) Logging Trucks Skidder Bulldozer (medium) Greaper Drum Compactor Skid Steer Loader Road Grader Rechtoe Loader (includes everting collector system poles)
Totalice Assume 60% trips from West (50 mile trip) and 40% trips from East (10 mile trip)  2 nos. (Cat 5228)  8 Fiat-Bed Semi Trailers and Tractors  2 shidders  14 nos. (Cat D7 Buildozers)  4 nod. (Cat D7 Buildozers)  4 nod. (Cat C37XD2)  5 nos. (Cat 127XD2)  3 nos. (Cat 127XD2)  4 nos. (Cat 125EP)  4 nos. (Cat 125EP)  4 nos. (Cat 125EP)  5 nos. (Cat 125EP)  4 nos. (Cat 125EP)  5 nos. (Cat 126FP)  5 nos. (Cat 126FP)  7 nos. (Cat 126FP)  8 nos. (Cat 126FP)  9 nos. (Cat 126FP)  10 nos. (Cat 126FP)  10 nos. (Cat 126FP)  10 nos. (Cat 126FP)  10 nos. (Cat 126FP)	007 000 000 000 005 006 006'T 000 000'T 000 000 000 000 000 000 000	05 05 05 05 05 05 05 05 05 05 05		000'r5 000'c5 05c'99 249'72 000'r 000'r5 000'r5 000'r5 000'r5 112'T2	00Z 996,8£ 8 85 4 91 6 4 8 85 7 4 91 8 82 8 82 9 7 91 9 92 9 92 9 92 9 93 9 94 9 95 9 95 9 95 9 95 9 95 9 95 9 95	# # # # # # # # # # # # # # # # # # #	Peak Number of Pick-up Truck Trips/Day  Equipment Feller Buncher (logging) Logging Trucks Skidder Skidder Buildozer (medium) Scraper Drum Compactor Skid Steer Loader Road Grader Road Grader Tenching Equipment Backhoe Loader Excavator
AVMT calcs Assume 60% trips from West (50 mile trip) and 40% trips from East (10 mile trip)  Z nos. (Cat 5228)  Z nos. (Cat D7 Bulldozers)  At nos. (Cat D7 Bulldozers)  B Cat C54L SAM)  R Oas (Cat C57DS)  R Oas (Cat 272DS)	002 004 006 005 006 006 006 000'T 007 007 007 008 009	05 05 05 05 05 05 05 05 05 05 05 05	(spuno <sub>d</sub> )	(spunod)	8 8 0 9 9 9 9 9 8 8 8 7 9 9 7	# # # # # # # # # # # # # # # # # # #	Total Pick-up Trucks Two-Way Trips  Peak Number of Pick-up Truck Trips/Day  Equipment  Feller Buncher (logging)  Logging Truck  Skidder  Buildozer (medium)  Scraper  Drum Compactor  Pand Conder  Road Grader  Road
36,966 two-way truck trips derived from developers full time labor calculations. 2 Full-Time Employe assumed per truck  VMT calcs Assume 60% trips from West (50 mile trip) and 40% trips from East (10 mile trip)  2 nos. (Cat 5228)  2 nos. (Cat 5228)  4 nos. (Cat 52228)  3 nos. (Cat 52202)  4 nos. (Cat 6272202)  4 nos. (Cat 627202)  4 nos. (Cat 12700)  4 nos. (Cat 127202)  5 nos. (Cat 127202)  5 nos. (Cat 127202)  5 nos. (Cat 127202)  5 nos. (Cat 127202)  6 nos. (Cat 127202)  7 nos. (Cat 127202)  7 nos. (Cat 41512)  7 nos. (Cat 41512)  7 nos. (Cat 67608)	002 002 004 005 005 006 006'T 008 000'T 007 007 008 009	05 05 05 05 05 05 05 05 05 05 05	(spunod)	000'pz 000'zs 092'99 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	26,966 200 36,966 200 200 20 8 8 8 8 2 9 6 2 9 8 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9	2 2 124 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 3 3 3	Peak Number of Pick-up Truck Trips/Day  Equipment Feller Buncher (logging) Logging Trucks Skidder Skidder Buildozer (medium) Scraper Drum Compactor Skid Steer Loader Road Grader Road Grader Tenching Equipment Backhoe Loader Excavator
36,966 two-way truck trips derived from developers full time labor calculations. 2 Full-Time Employer assumed per truck  VMT calcs Assume 60% trips from West (50 mile trip) and 40% trips from East (10 mile trip)  2 nos. (Cat 522B)  2 nos. (Cat 522B)  4 nos. (Cat 627Xs)  3 nos. (Cat 027XD2)  4 nos. (Cat 127XD2)  4 nos. (Cat 127XD2)  5 nos. (Cat 127XD2)  4 nos. (Cat 127XD2)  5 nos. (Cat 127XD2)  5 nos. (Cat 127XD2)  7 nos. (Cat 127XD2)  8 nos. (Cat 127XD2)  9 nos. (Cat 127XD2)  10 nos. (Cat 127XD2)  10 nos. (Cat 127XD2)	002 004 006 005 006 006 006 000'T 007 007 007 008 009	05 05 05 05 05 05 05 05 05 05 05 05		### Stranger   Weight	26,966 200 200 200 200 200 200 200 200 200 2	2 Truck Trips  2 Mary 1	Total Pick-up Trucks Two-Way Trips  Peak Number of Pick-up Truck Trips/Day  Equipment  Feller Buncher (logging)  Logging Truck  Skidder  Buildozer (medium)  Scraper  Drum Compactor  Pand Conder  Road Grader  Road

Exhibit 4 - Fo	untain W	/ind Proje	ect - Estimated	Vehicle '	Trips - Post-Construction/Day
Vehicles	Number of One way Truck Trips	Number of Two Way Truck Trips	Miles	VMT/DAY	Notes/ Assumptions
Pick-Up Trucks - 8 Full time Employees			50 111 1 10 5 1	240	
Total Pick-up Trucks	4	8	50 - West ; 10 - East	240	
Equipment	I				
Equipment Operators	0			0	Assume all trips on SR 299 West
				_	-
Mobile Home (Field Office)	0		50	0	]
Materials					
Total Assessment for Construction Deliveries		ı			Assessed All Asian and CD 200 Foot
Total Aggregate for Compaction Deliveries	0			0	Assume all trips on SR 299 East
Total Aggregate Deliveries	0			0	Assume all trips on SR 299 East
Total Turbine Related Deliveries	0			0	Assume all trips on SR 299 west - Schedule to avoid peak hours
Total Concrete Deliveries	0	l		0	Assume all trips on SR 299 west
Total consiste senvenes	Ů				A South Can Chips on SN 255 West
7.120 8 28		ı			
Total Miscellaneous Deliveries	0			0	Assume all trips on SR 299 West
Total Water	1	l	50	100	Assume all trips on SR 299 West
Total Water			30	100	, assume an unps on six 255 West
	Trucks				
SR 299 West	3	6	ı	300	1
SR 299 East	2	4		40	]
Total Trips	5	10	TOTAL VMT /DAY	340	1
Total Tilps	J	10	TOTAL VIVIT /DAT	340	



Burney Express is provided by the County of Shasta and operated by RABA. This service is outside of the RABA Service Area.

#### Route and Stops

Burney Express mostly travels on SR 299, connecting Burney on the east to Redding on the west.

Burney Express stops include:

- · Burney (@ Burney Sporting Goods)
- · Montgomery Creek (@ Montgomery Creek Library)
- · Round Mountain (@ Round Mountain Store/Cafe)
- Bella Vista (@ My-T Fine Foods)
- · Shasta College
- · Redding (@ Downtown Transit Center)

#### Schedule

Burney Express provides three trips in each direction during the weekdays.

	WESTBOUND												
	Burney	Montg Creek	Round Mtn	Bella Vista	Shasta College	Redding							
1st Trip	5:50 am	6:15 am	6:25 am	6:55 am	7:05 am	7:15 am							
2nd Trip	11:50 am	12:15 pm	12:25 pm	12:55 pm	1:05 pm	1:15 pm							
3rd Trip	3:50 pm	4:15 pm	4:25 pm	4:55 pm	5:05 pm	5:15 pm							

EASTBOUND											
	Redding	Shasta College	Bella Vista	Round Mtn	Montg Creek	Burney					
1st Trip	10:25 am	10:35 am	10:45 am	11:15 am	11:25 am	11:50 am					
2nd Trip	2:25 pm	2:35 pm	2:45 pm	3:15 pm	3:25 pm	3:50 pm					
3rd Trip	5:35 pm	5:45 pm	5:55 pm	6:25 pm	6:35 pm	7:00 pm					

There is no service on the weekends.

There is no service on the following holidays:

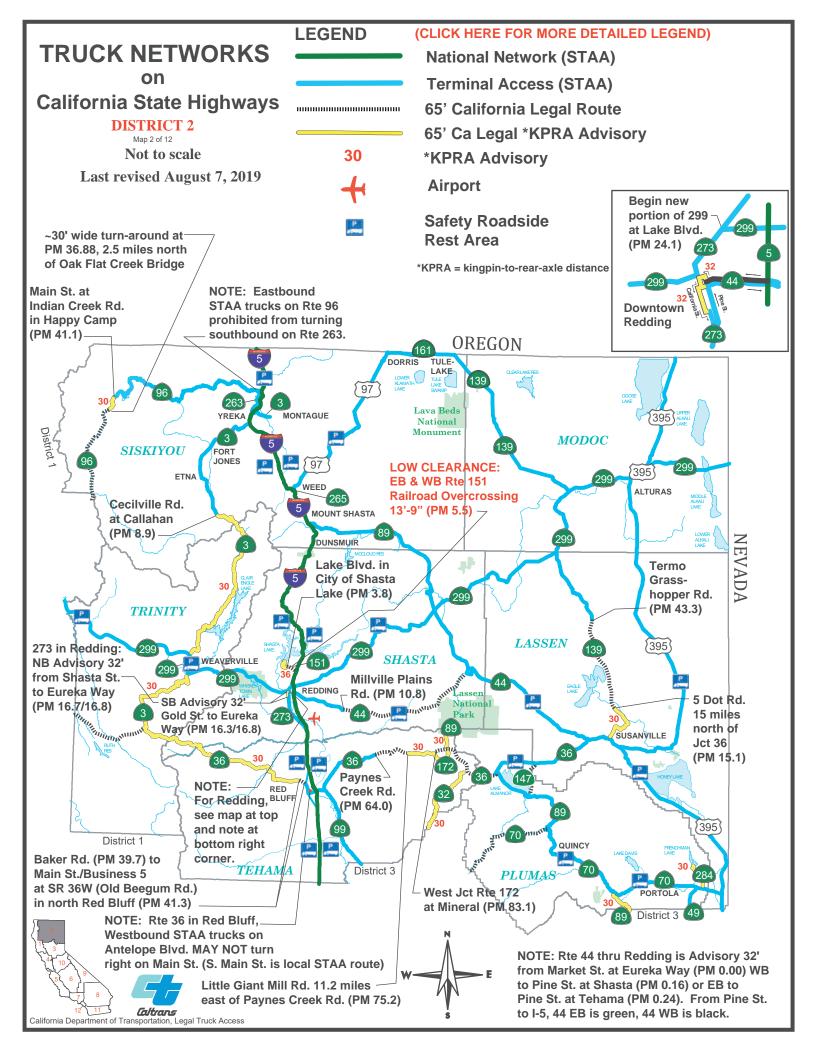
 New Year's Day (January 1st), Memorial Day (last Monday of May), Independence Day (July 4th), Labor Day (first Monday of September), Thanksgiving Day (fourth Thursday of November), or Christmas Day (December 25th).

#### Fares

	TO									
FROM	Shasta College/ Bella Vista	Round Mtn/ Montg Creek	Burney	Redding						
Redding	\$2.00	\$3.50	\$5.00	-						
Burney	\$3.50	\$2.00		\$5.00						

#### Additional Resources

Rural Transit in Shasta County



## TRUCK MAP LEGEND TRUCK LENGTHS & ROUTES



STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Click here for the Truck Network Map

CALIFORNIA LEGAL ROUTES California Legal trucks (black trucks) can travel on STAA routes (green and blue routes), CA Legal routes (black routes), and Advisory routes (yellow routes). CA Legal trucks have access to the entire State highway system except where prohibited (some red routes).



#### California Legal Truck Tractor - Semitrailer

Semitrailer length: no limit

KPRA\* : 40 feet maximum for two or more axles,

38 feet maximum for single-axle trailers

Overall length : 65 feet maximum \*(KPRA = kingpin-to-rear-axle)



#### California Legal Truck Tractor - Semitrailer - Trailer (Doubles)

Option A

Trailer length: 28 feet 6 inches maximum (each trailer)

Overall length: 75 feet maximum

Option B

Trailer length: one trailer 28 feet 6 inches maximum

other trailer may be longer than 28 feet 6 inches

Overall length: 65 feet maximum



CA LEGAL ADVISORY ROUTES - CA Legal trucks only; however, *travel not advised* if KPRA length is over posted value. KPRA advisories range from 30 to 38 feet.

STAA ROUTES The STAA Network allows the "interstate" STAA trucks which are the green trucks shown below. The STAA Network consists of the National Network (green routes, primarily interstates) and Terminal Access routes (blue, primarily State routes). ("STAA" = federal Surface Transportation Assistance Act of 1982.)

(Click here for the Truck Network Map.)







#### Interstate "STAA" Truck Tractor - Semitrailer

Semitrailer length: 48 feet maximum

KPRA\* : no limit

Overall length : no limit \*(KPRA = kingpin-to-rear-axle)

Semitrailer length: over 48 feet up to 53 feet maximum KPRA: 40 feet maximum for two or more axles,

38 feet maximum for single-axle trailers

Overall length : no limit

Interstate "STAA" Truck Tractor - Semitrailer - Trailer (Doubles)

Trailer length: 28 feet 6 inches maximum (each trailer)

Overall length: no limit



Terminal Access - Interstate "STAA" trucks may travel on State highways that exhibit this sign.



Service Access - Interstate "STAA" trucks may travel up to one road mile from the off ramp to obtain services (food, fuel, lodging, repairs), provided the route displays this sign.

SPECIAL RESTRICTIONS - Route restricted for vehicle length or weight, cargo type, or number of axles. Click here for the list of Special Route Restrictions.

### CalTrans Traffic Census Program 2021 Annual Average Daily Traffic (AADT) Volumes

DISTRICT	ROUTE	RTE_SFX COUNTY	PM_PFX	X DESCRIPTION  σ L  Δ L	BACK_PEAK_HOUR	BACK_PEAK_MADT	BACK_AADT	AHEAD_PEAK_HOUI	AHEAD_PEAK_MAD	AHEAD_AADT
02	2 299	SHA	24.822	REDDING, JCT. RTE. 5				2200	22500	18800
02	2 299	SHA	25.540	HAWLEY ROAD	2200	22500	18800	1150	12500	10800
02	2 299	SHA	27.239	OLD OREGON TRAIL	1150	12500	10800	950	10500	9500
02	2 299	SHA	31.460	DESCHUTES ROAD	910	8200	7700	520	6000	4750
02	2 299	SHA	53.263	TERRY MILL ROAD	260	4850	3900	260	4900	3950
02	2 299	SHA	60.050	BIG BEND ROAD	270	4400	3550	270	4150	3350
02	2 299	SHA	73.130	TAMARACK ROAD	400	4450	3150	400	4450	3150
02	2 299	SHA	74.480	ELM ST	370	4050	2400	360	4200	3600
02	299	SHA	74.980	BURNEY, PLUMAS ST	360	4200	3600	870	9600	8200

## CalTrans Traffic Census Program 2021 Truck Volumes and Percentages

RTE	RTE_SFX DIST CNTY	POSTMILE_PFX	POSTMILE	POSTMILE_SFX	LEG	DESCRIPTION	VEHICLE_AADT_TOTA	TRUCK_AADT_TOTAL	TRK_PERCENT_TOT	TRK_2_AXLE	TRK_3_AXLE	TRK_4_AXLE	TRK_5_AXLE	TRK_2_AXLE_PCT	TRK_3_AXLE_PCT	TRK_4_AXLE_PCT	TRK_5_AXLE_PCT	EAL YEAR_VER	EST
299	02 SHA		24.822		Α	REDDING, JCT. RTE. 5	18800	890	4.73	552	94	11	233	62.02	10.56	1.24	26.18	110 20	V
299	02 SHA		25.540		Α	HAWLEY ROAD	10800	406	3.76	69	84	19	234	17.07	20.73	4.63	57.56	94 16	Ε
299	02 SHA		27.239		Α	OLD OREGON TRAIL	9500	357	3.76	81	47	10	219	22.66	13.29	2.72	61.33	84 16	Ε
299	02 SHA		60.050		В	BIG BEND ROAD	3550	529	14.90	93	76	13	347	17.59	14.35	2.55	65.51	132 16	Ε
299	02 SHA		72.640		0	HAYNES ROAD	3150	615	19.52	168	159	3	285	27.32	25.85	0.49	46.34	119 19	V
299	02 SHA		73.130		Α	TAMARACK ROAD	3150	551	17.49	197	83	5	266	35.75	15.06	0.91	48.28	107 20	V
299	02 SHA		74.980		В	BURNEY, PLUMAS STREET	3600	684	19.00	259	104	9	312	37.87	15.20	1.32	45.61	128 20	Е

### **Elevations At Locations of Interest Along CA-299E**



	Fountain Wind Project											
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Average Section Average Slope							
Between I-5 and Hawley Road	24.9 - 25.5	0.6	641	628	-0.41							

#### **Elevations At Locations of Interest Along CA-299E**

Mile Post 27.2 Elevation 621 ft



Mile Post 25.5 Elevation 628 ft

	Fountain Wind Project											
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Slope							
Between Hawley Road and Old Oregon Trail	25.5 - 27.2	1.7	628	621	0.1							

#### **Elevations At Locations of Interest Along CA-299E**

Mile Post 31.5 Elevation 539 ft



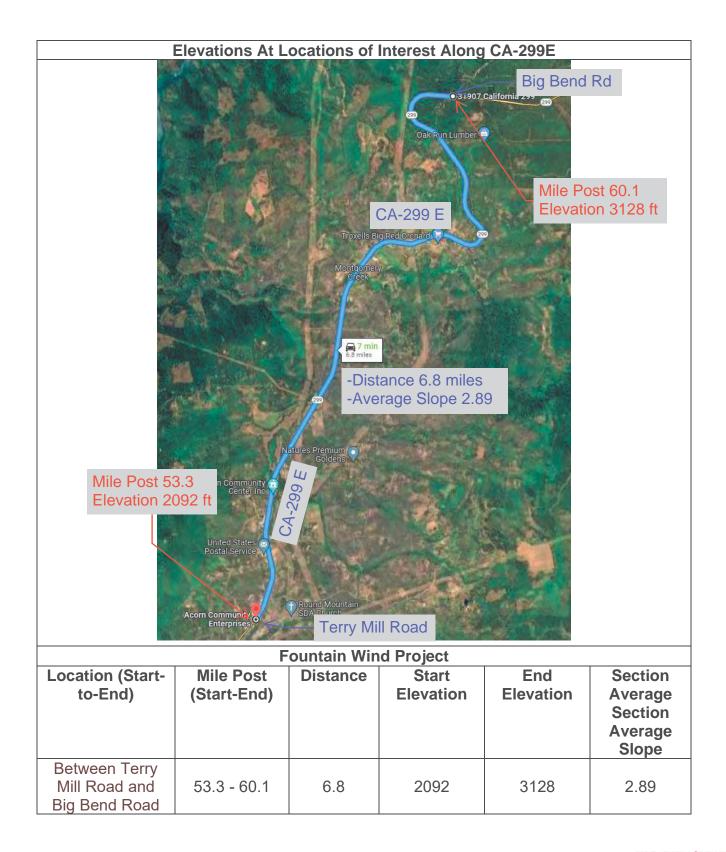
	Fountain Wind Project											
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Section Average Slope							
Between Old Trail and Deschutes Road	27.2 - 31.5	4.3	621	539	-0.36							

#### **Elevations At Locations of Interest Along CA-299E**

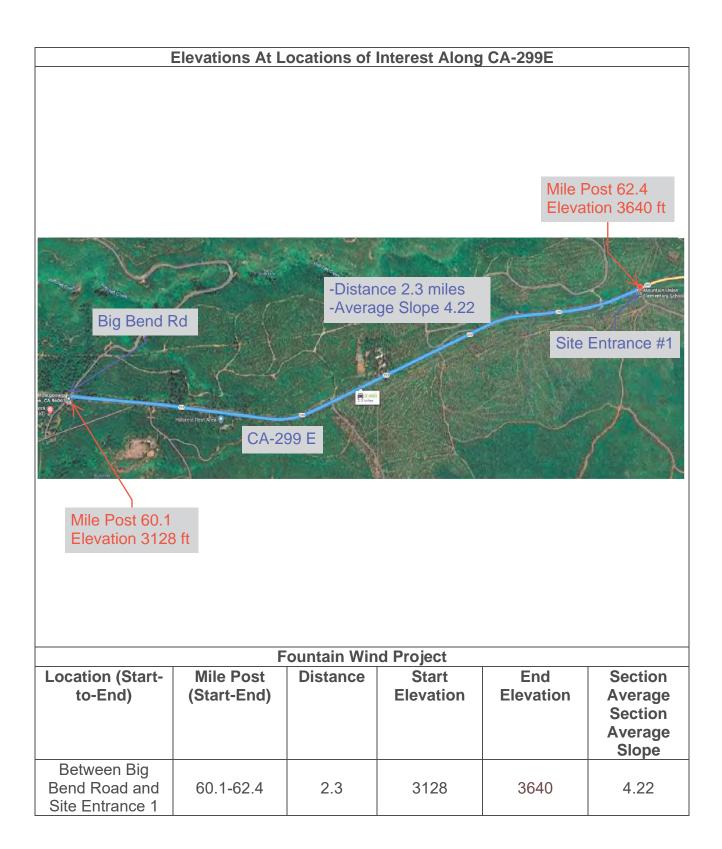


Deschutes Road

	Fountain Wind Project											
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Section Average Slope							
Between Deschutes Road and Terry Mill Road	31.5 - 53.3	21.8	539	2092	1.35							







#### **Elevations At Locations of Interest Along CA-299E**

#### Mile Post 62.4 Elevation 3640 ft



Site Entrance #2

	F	ountain Win	d Project		
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Slope
Between Site Entrance 1 and Site Entrance 2	62.4-67.3	4.9	3640	4215	2.22

#### **Elevations At Locations of Interest Along CA-299E**



Fountain Wind Project											
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start End Elevation  4215 3209	Section Average Slope							
Between Site Entrance 2 and Tamarack Road	67.3 – 73.1	5.8	4215	3209	-3.29						

Tamarack Road

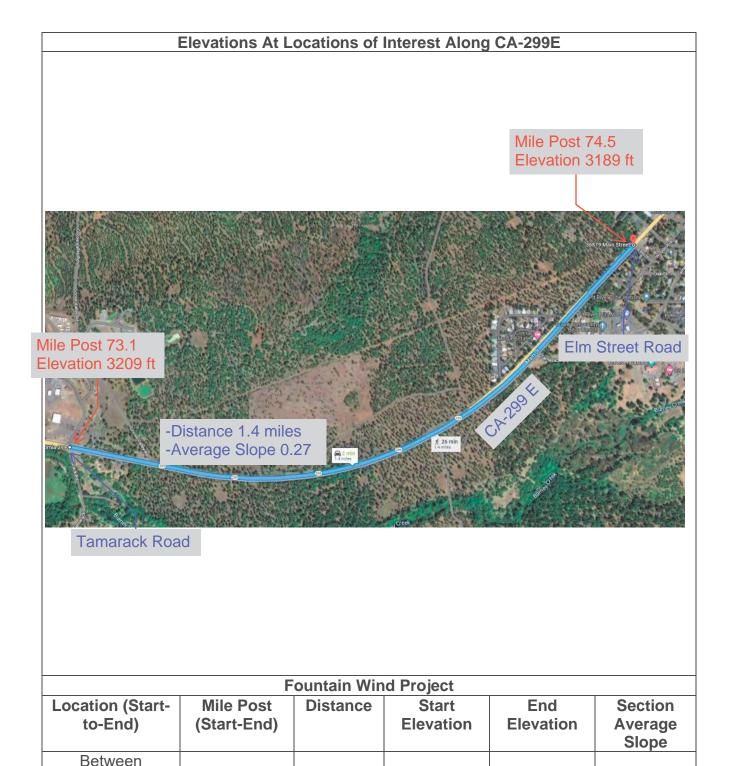
and Elm Street

73.1 - 74.5

1.4

3209

maln (702) 284-5300

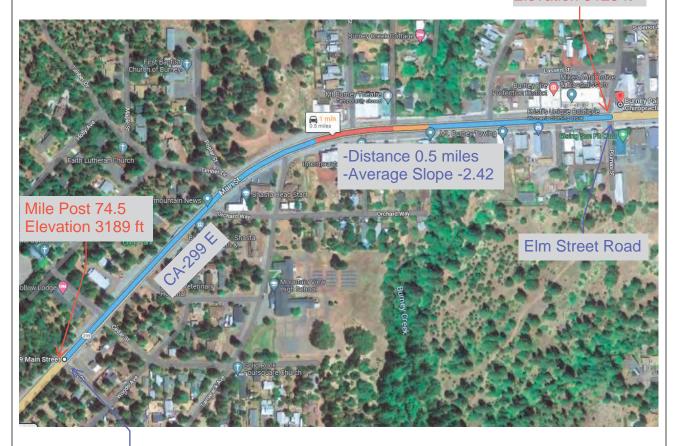


-0.27

3189

#### **Elevations At Locations of Interest Along CA-299E**

Mile Post 75.0 Elevation 3125 ft



Elm Street Road

	Fountain Wind Project											
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Slope							
Between Elm Street Plumas Street (Burney)	74.5 – 75.0	0.5	3189	3125	-2.42							



LOCATION: EB SR 299 east of Supan Rd

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 4 2023

CITY/STATE:	Shasta,	CA														DATE: Ap	or 4 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numb
otart rime	15	20	25	30	35	40	45	50	55	60	65	70	75	999	TOtal	Pace Speed	in Pa
12:00 AM	0	0	0	0	1	1	5	1	0	0	0	0	0	0	8	39-48	6
01:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	41-50	1
02:00 AM	0	0	0	0	0	2	0	1	0	0	0	0	0	0	3	31-40	2
03:00 AM	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3	46-55	2
04:00 AM	1	0	0	0	1	1	3	0	3	0	0	0	0	0	9	36-45	4
05:00 AM	2	0	1	1	3	3	11	5	1	0	0	0	0	0	27	41-50	16
06:00 AM	0	0	0	1	1	6	22	8	7	2	0	0	0	0	47	41-50	30
07:00 AM	3	0	4	1	3	9	36	23	1	1	0	0	0	0	81	41-50	59
08:00 AM	0	0	0	0	4	10	28	22	5	0	0	0	0	0	69	41-50	50
09:00 AM	3	0	0	3	6	6	31	24	11	1	0	0	0	0	85	41-50	55
10:00 AM	6	0	0	11	2	3	22	24	11	0	0	0	0	0	79	41-50	46
11:00 AM	0	0	0	6	8	9	14	27	13	2	0	0	0	0	79	41-50	41
12:00 PM	5	0	0	5	7	4	27	23	7	4	0	0	0	0	82	41-50	50
01:00 PM	3	0	0	2	2	12	19	26	14	1	0	0	0	0	79	41-50	45
02:00 PM	2	0	0	0	5	8	22	30	14	2	0	1	0	0	84	41-50	52
03:00 PM	4	0	0	4	6	2	23	33	12	5	2	0	0	0	91	41-50	56
04:00 PM	1	0	0	2	0	6	51	42	22	4	1	0	0	0	129	41-50	93
05:00 PM	0	0	0	0	0	4	16	47	17	3	0	0	0	0	87	46-55	64
06:00 PM	1	0	0	0	5	10	13	18	22	0	0	0	0	0	69	46-55	40
07:00 PM	0	0	0	0	0	5	9	10	11	2	0	0	0	0	37	46-55	21
08:00 PM	0	0	0	0	1	6	14	11	0	0	0	0	0	0	32	41-50	25
09:00 PM	0	0	2	0	2	4	13	4	2	1	1	0	0	0	29	41-50	17
10:00 PM	0	0	0	0	0	1	3	3	2	1	0	0	0	0	10	41-50	6
11:00 PM	0	0	0	0	0	2	1	1	2	1	0	0	0	0	7	36-45	3
Day Total	31	0	7	36	57	114	384	384	179	30	4	1	0	0	1227	41-50	768
Percent	2.5%	0%	0.6%	2.9%	4.6%	9.3%	31.3%	31.3%	14.6%	2.4%	0.3%	0.1%	0%	0%	1227	41.30	700
AM Peak		12:00 AM	7:00 AM	10:00 AM		8:00 AM	7:00 AM		11:00 AM		12:00 AM				9:00 AM		
Volume	6	0	4	11	8	10	36	27	13	2	0	0	0	0	85		
PM Peak		12:00 PM	9:00 PM	12:00 PM		1:00 PM	4:00 PM	5:00 PM	4:00 PM	3:00 PM	3:00 PM		12:00 PM		4:00 PM		
Volume	5	0	2	5	7	12	51	47	22	5	2	1	0	0	129		

LOCATION: EB SR 299 east of Supan Rd

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 5 2023

CITY/STATE:	Shasta,	CA														DATE: Ap	or 5 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numb
otart rime	15	20	25	30	35	40	45	50	55	60	65	70	75	999	TOLAI	Pace Speed	in Pa
12:00 AM	0	0	4	0	0	0	1	1	0	0	0	0	0	0	6	16-25	4
01:00 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	26-35	1
02:00 AM	0	0	0	0	0	1	3	0	1	1	0	0	0	0	6	36-45	4
03:00 AM	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	41-50	3
04:00 AM	0	0	0	0	0	0	5	2	2	0	0	0	0	0	9	41-50	7
05:00 AM	2	0	0	0	1	3	5	8	2	2	1	0	0	0	24	41-50	13
06:00 AM	1	0	0	0	5	11	12	13	7	0	0	0	0	0	49	41-50	25
07:00 AM	1	0	1	5	3	6	22	21	8	1	0	0	0	0	68	41-50	43
08:00 AM	5	0	1	3	8	14	19	15	14	2	1	0	0	0	82	41-50	34
09:00 AM	2	0	0	4	7	3	20	34	8	2	0	0	0	0	80	41-50	54
10:00 AM	2	0	0	4	3	10	25	32	12	2	1	0	0	0	91	41-50	57
11:00 AM	3	0	1	3	2	14	20	17	14	2	0	0	0	0	76	41-50	37
12:00 PM	1	0	2	1	5	4	17	31	8	3	0	0	0	0	72	41-50	48
01:00 PM	4	0	0	0	1	5	26	31	15	3	0	0	0	0	85	41-50	57
02:00 PM	3	0	0	2	3	1	13	48	22	0	1	0	0	0	93	46-55	70
03:00 PM	1	0	0	2	7	4	20	43	24	5	0	0	0	0	106	46-55	67
04:00 PM	5	0	0	1	3	12	34	50	26	5	0	0	0	0	136	41-50	84
05:00 PM	1	0	0	0	0	4	23	37	21	7	3	0	0	0	96	41-50	60
06:00 PM	3	0	0	0	0	3	11	23	22	9	5	0	0	0	76	46-55	45
07:00 PM	1	0	0	0	0	1	10	9	9	1	1	1	0	0	33	41-50	19
08:00 PM	1	0	0	0	0	3	12	9	9	2	0	0	0	0	36	41-50	21
09:00 PM	0	0	0	0	1	2	10	8	5	2	0	0	0	0	28	41-50	18
10:00 PM	1	0	0	1	0	1	6	6	2	0	0	0	0	0	17	41-50	12
11:00 PM	1	0	0	0	0	0	4	5	1	1	0	0	0	0	12	41-50	9
Day Total	38	0	9	26	50	102	318	447	232	50	13	1	0	0	1286	41-50	765
Percent	3%	0%	0.7%	2%	3.9%	7.9%	24.7%	34.8%	18%	3.9%	1%	0.1%	0%	0%	1200	41-50	763
AM Peak	8:00 AM	12:00 AM	12:00 AM	7:00 AM	8:00 AM	8:00 AM	10:00 AM	9:00 AM	8:00 AM	5:00 AM	5:00 AM	12:00 AM	12:00 AM	12:00 AM	10:00 AM		
Volume	5	0	4	5	8	14	25	34	14	2	1	0	0	0	91		
PM Peak	4:00 PM	12:00 PM	12:00 PM	2:00 PM	3:00 PM	4:00 PM	4:00 PM	4:00 PM	4:00 PM	6:00 PM	6:00 PM	7:00 PM	12:00 PM	12:00 PM	4:00 PM		
Volume	5	0	2	2	7	12	34	50	26	9	5	1	0	0	136		

SPECIFIC LOCATION:

QC JOB #: 16124307 **DIRECTION: EB** 

CITY/STATE:																DATE: A	
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	0	0	0	2	2	4	1	1	0	0	0	0	10	41-50	6
01:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	36-45	1
02:00 AM	0	0	0	0	0	1	1	2	2	1	0	0	0	0	7	46-55	4
03:00 AM	1	0	0	0	1	0	2	3	3	0	0	0	0	0	10	46-55	6
04:00 AM	0	0	0	1	0	1	7	0	4	1	0	0	0	0	14	36-45	8
05:00 AM	2	0	0	0	3	2	4	12	4	0	0	0	0	0	27	43-52	16
06:00 AM	2	0	0	1	0	5	8	16	12	7	0	0	0	0	51	46-55	28
07:00 AM	2	0	0	0	8	1	15	29	17	4	0	0	0	0	76	46-55	46
08:00 AM	3	0	0	1	3	8	15	33	16	3	0	0	0	0	82	46-55	49
09:00 AM	2	0	0	1	6	10	15	30	17	4	0	0	0	0	85	46-55	47
10:00 AM	1	0	0	7	1	4	19	26	21	3	2	0	0	0	84	46-55	47
11:00 AM	4	0	0	6	13	1	9	42	14	2	1	0	0	0	92	46-55	56
12:00 PM	2	0	0	3	6	5	21	38	14	5	0	0	0	0	94	41-50	59
01:00 PM	1	0	0	6	2	4	14	27	23	4	4	0	0	0	85	46-55	50
02:00 PM	3	0	0	0	6	4	20	37	24	5	1	0	0	0	100	46-55	61
03:00 PM	2	0	0	5	3	8	21	41	29	4	0	0	0	0	113	46-55	70
04:00 PM	5	0	0	1	7	6	24	46	20	5	2	0	0	0	116	41-50	70
05:00 PM	3	0	0	0	0	3	24	33	14	5	1	0	0	0	83	41-50	57
06:00 PM	0	0	0	2	0	0	15	32	19	4	1	0	0	0	73	46-55	51
07:00 PM	1	0	0	0	0	2	10	14	11	2	1	0	0	0	41	46-55	25
08:00 PM	1	0	0	0	1	6	10	13	3	0	0	0	0	0	34	41-50	23
09:00 PM	0	0	0	1	2	5	7	3	0	0	0	0	0	0	18	36-45	12
10:00 PM	0	0	0	0	0	1	5	4	3	0	0	0	0	0	13	41-50	9
11:00 PM	0	0	0	0	0	0	3	1	0	0	0	0	0	0	4	41-50	4
Day Total	35	0	0	35	62	79	272	486	271	60	13	0	0	0	1313	41-50	758
Percent	2.7%	0%	0%	2.7%	4.7%	6%	20.7%	37%	20.6%	4.6%	1%	0%	0%	0%	1313	41-30	730
AM Peak Volume	4	0	0	10:00 AM 7	13	10	19	42	21	7	2	0	0	0 12:00 AM	11:00 AM 92		
PM Peak Volume	4:00 PM 5	12:00 PM 0	12:00 PM 0	1:00 PM 6	4:00 PM 7	3:00 PM 8	4:00 PM 24	4:00 PM 46	3:00 PM 29	12:00 PM 5	1:00 PM 4	12:00 PM 0	12:00 PM 0	12:00 PM 0	4:00 PM 116		

LOCATION: EB	SR 299 e	ast of Su	pan Rd													QC JOB	#: 16124307
SPECIFIC LOCA	ATION:															DI	RECTION: EB
CITY/STATE: SI	hasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Range	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Tace Speed	Pace
Grand Total	104	0	16	97	169	295	974	1317	682	140	30	2	0	0	3826	41-50	2291
Percent	2.7%	0%	0.4%	2.5%	4.4%	7.7%	25.5%	34.4%	17.8%	3.7%	0.8%	0.1%	0%	0%	3820	41-30	2291
Cumulative	2.7%	2.7%	3.1%	5.7%	10.1%	17.8%	43.3%	77.7%	95.5%	99.2%	99.9%	100%	100%	100%			
Percent																	
ADT 1275				_											Mea	nn Speed(Avera	ntile: 52 MPH age): 45 MPH dian: 45 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 4 2023

,	iasta, CA													DAIL.	Apr 4 202
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	5	0	0	1	0	0	2	0	0	0	0	0	0	8
01:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3
03:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3
04:00 AM	0	5	0	0	0	0	0	2	1	0	0	0	0	1	9
05:00 AM	0	16	3	0	2	0	0	3	1	0	0	0	0	2	27
06:00 AM	0	23	18	0	2	0	0	4	0	0	0	0	0	0	47
07:00 AM	2	51	14	0	3	1	0	7	1	0	0	0	0	2	81
08:00 AM	0	51	10	0	2	0	0	5	1	0	0	0	0	0	69
09:00 AM	0	58	14	0	5	0	0	5	0	0	0	0	0	3	85
10:00 AM	1	42	18	0	3	1	0	7	1	0	0	0	0	6	79
11:00 AM	0	54	12	0	5	0	0	8	0	0	0	0	0	0	79
12:00 PM	1	48	9	0	9	1	0	8	1	0	0	0	0	5	82
01:00 PM	0	53	11	0	4	0	0	6	2	0	0	0	0	3	79
02:00 PM	0	59	11	0	7	0	0	3	0	0	2	0	0	2	84
03:00 PM	0	69	9	0	2	0	0	3	3	0	1	0	0	4	91
04:00 PM	0	103	18	0	2	0	0	5	0	0	0	0	0	1	129
05:00 PM	0	73	10	0	1	0	0	3	0	0	0	0	0	0	87
06:00 PM	0	53	11	0	1	0	0	3	0	0	0	0	0	1	69
07:00 PM	0	30	5	0	1	0	0	1	0	0	0	0	0	0	37
08:00 PM	0	27	4	0	0	0	0	1	0	0	0	0	0	0	32
09:00 PM	1	22	2	0	1	1	0	2	0	0	0	0	0	0	29
10:00 PM	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
11:00 PM	0	6	1	0	0	0	0	0	0	0	0	0	0	0	7
Day Total	5	863	180	0	53	4	0	78	11	0	3	0	0	30	1227
Percent	0.4%	70.3%	14.7%	0%	4.3%	0.3%	0%	6.4%	0.9%	0%	0.2%	0%	0%	2.4%	1227
ADT 1227															
AM Peak	7:00 AM	9:00 AM	6:00 AM	12:00 AM	9:00 AM	7:00 AM	12:00 AM	11:00 AM	4:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	10:00 AM	9:00 AN
Volume	2	58	18	0	5	1	0	8	1	0	0	0	0	6	85
PM Peak	12:00 PM	4:00 PM	4:00 PM	12:00 PM		12:00 PM	12:00 PM	12:00 PM	3:00 PM	12:00 PM	2:00 PM	12:00 PM		12:00 PM	4:00 PN
Volume	1	103	18	0	9	1	0	8	3	0	2	0	0	5	129
omments:	_														

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 5 2023

JIY/STATE: Sh	iasta, CA														Apr 5 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
Start Time	DIKES	Trailers	Long	Duses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 AM	2	0	1	0	1	2	0	0	0	0	0	0	0	0	6
01:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00 AM	0	3	1	0	1	0	0	1	0	0	0	0	0	0	6
03:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
04:00 AM	0	6	1	0	1	0	0	1	0	0	0	0	0	0	9
05:00 AM	0	14	5	0	1	0	0	2	0	0	0	0	0	2	24
06:00 AM	0	23	15	0	5	0	0	4	1	0	0	0	0	1	49
07:00 AM	1	37	19	0	4	0	0	3	3	0	0	0	0	1	68
MA 00:80	2	50	9	0	11	2	0	3	0	0	0	0	0	5	82
09:00 AM	0	49	15	0	4	1	0	8	1	0	0	0	0	2	80
10:00 AM	1	61	10	0	5	1	0	11	0	0	0	0	0	2	91
11:00 AM	0	52	13	0	3	1	0	3	1	0	0	0	0	3	76
12:00 PM	1	50	9	0	5	1	0	3	1	0	1	0	0	1	72
01:00 PM	0	61	10	0	7	0	0	3	0	0	0	0	0	4	85
02:00 PM	0	72	10	0	4	0	0	3	1	0	0	0	0	3	93
03:00 PM	0	72	21	0	6	0	0	5	0	0	1	0	0	1	106
04:00 PM	0	100	24	0	1	0	0	5	0	0	2	0	0	4	136
05:00 PM	0	74	16	0	4	0	0	1	0	0	0	0	0	1	96
06:00 PM	0	56	13	0	2	0	0	2	0	0	0	0	0	3	76
07:00 PM	0	24	6	1	1	0	0	0	0	0	0	0	0	1	33
08:00 PM	0	30	2	0	0	0	0	3	0	0	0	0	0	1	36
09:00 PM	0	19	7	0	0	0	0	2	0	0	0	0	0	0	28
10:00 PM	0	13	2	0	0	0	0	0	1	0	0	0	0	1	17
11:00 PM	0	10	1	0	0	0	0	0	0	0	0	0	0	1	12
Day Total	7	880	211	11	66	8	0	63	9	0	4	0	0	37	1286
Percent	0.5%	68.4%	16.4%	0.1%	5.1%	0.6%	0%	4.9%	0.7%	0%	0.3%	0%	0%	2.9%	1200
ADT 1286															
AM Peak	12:00 AM	10:00 AM	7:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	10:00 AM	7:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	8:00 AM	10:00 A
Volume	2	61	19	0	11	2	0	11	3	0	0	0	0	5	91
PM Peak	12:00 PM	4:00 PM	4:00 PM	7:00 PM	1:00 PM	12:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	1:00 PM	4:00 P
Volume	1	100	24	1	7	1	0	5	1	0	2	0	0	4	136
mments:															

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 6 2023

JIIY/STATE: Sh	asta, CA														Apr 6 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 AxI	Not	Total
Start Time	DIKES	Trailers	Long	Duses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 AM	0	8	1	0	1	0	0	0	0	0	0	0	0	0	10
01:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 AM	0	4	2	0	0	0	0	1	0	0	0	0	0	0	7
03:00 AM	0	5	3	0	1	0	0	0	0	0	0	0	0	1	10
04:00 AM	0	7	2	0	1	0	0	4	0	0	0	0	0	0	14
05:00 AM	0	12	2	0	3	0	0	6	0	0	2	0	0	2	27
06:00 AM	1	17	22	0	5	0	0	4	0	0	0	0	0	2	51
07:00 AM	0	44	16	0	7	0	0	7	0	0	0	0	0	2	76
08:00 AM	0	45	19	0	5	0	0	10	0	0	0	0	0	3	82
09:00 AM	0	54	13	0	7	0	0	9	0	0	0	0	0	2	85
10:00 AM	1	52	12	1	5	2	0	9	1	0	0	0	0	1	84
11:00 AM	1	62	14	0	5	0	0	4	1	0	1	0	0	4	92
12:00 PM	0	59	16	0	7	0	0	8	2	0	0	0	0	2	94
01:00 PM	1	53	16	0	10	1	0	3	0	0	0	0	0	1	85
02:00 PM	0	81	10	0	4	0	0	1	0	0	1	0	0	3	100
03:00 PM	1	81	20	0	5	1	0	3	0	0	0	0	0	2	113
04:00 PM	0	82	21	0	5	0	0	3	0	0	0	0	0	5	116
05:00 PM	0	62	15	0	1	0	0	2	0	0	0	0	0	3	83
06:00 PM	1	56	12	0	2	1	0	1	0	0	0	0	0	0	73
07:00 PM	1	31	6	0	2	0	0	0	0	0	0	0	0	1	41
08:00 PM	0	27	5	0	1	0	0	0	0	0	0	0	0	1	34
09:00 PM	1	12	4	0	1	0	0	0	0	0	0	0	0	0	18
10:00 PM	0	8	4	0	0	0	0	1	0	0	0	0	0	0	13
11:00 PM	0	3	0	0	1	0	0	0	0	0	0	0	0	0	4
Day Total	8	866	235	11	79	5	0	76	4	0	4	0	0	35	1313
Percent	0.6%	66%	17.9%	0.1%	6%	0.4%	0%	5.8%	0.3%	0%	0.3%	0%	0%	2.7%	1313
ADT 1313															
AM Peak	6:00 AM	11:00 AM	6:00 AM	10:00 AM	7:00 AM	10:00 AM	12:00 AM	8:00 AM	10:00 AM	12:00 AM	5:00 AM	12:00 AM	12:00 AM	11:00 AM	11:00 A
Volume	1	62	22	1	7	2	0	10	1	0	2	0	0	4	92
PM Peak	1:00 PM	4:00 PM	4:00 PM	12:00 PM	1:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	4:00 PM	4:00 P
Volume	1	82	21	0	10	1	0	8	2	0	1	0	0	5	116
mments:															

LOCATION: EB S	R 299 east	of Supan Ro	d											QC JOB #	<b>#</b> : 16124307
SPECIFIC LOCAT	ION:													DIF	RECTION: EB
CITY/STATE: Sha	asta, CA												DATE:	Apr 4 2023 -	- Apr 6 2023
Chaut Times	Diles	Cars &	2 Axle	Dunne	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Tatal
Start Time	Bikes	Trailers	Long	Buses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
Grand Total	20	2609	626	2	198	17	0	217	24	0	11	0	0	102	3826
Percent	0.5%	68.2%	16.4%	0.1%	5.2%	0.4%	0%	5.7%	0.6%	0%	0.3%	0%	0%	2.7%	3020
ADT 1275									<u>&gt;</u>						

Report generated on 4/11/2023 4:55 PM

Comments:



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307

**DIRECTION:** EB

DATE: Apr 4 2023 - Apr 6 2023

Start Time	Mon	<b>Tue</b> 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		8	6	10		8			8	
01:00 AM		1	2	1		1			1	1
02:00 AM		3	6	7		5			5	
03:00 AM		3	3	10		5			5	
04:00 AM		9	9	14		11			11	
05:00 AM		27	24	27		26			26	
06:00 AM		47	49	51		49			49	
07:00 AM		81	68	76		75			75	
08:00 AM		69	82	82		78			78	
09:00 AM		85	80	85		83			83	
10:00 AM		79	91	84		85			85	
11:00 AM		79	76	92		82			82	
12:00 PM		82	72	94		83			83	
01:00 PM		79	85	85		83			83	
02:00 PM		84	93	100		92			92	
03:00 PM		91	106	113		103			103	
04:00 PM		129	136	116		127			127	
05:00 PM		87	96	83		89	1		89	
06:00 PM		69	76	73		73			73	
07:00 PM		37	33	41		37			37	
08:00 PM		32	36	34		34			34	
09:00 PM		29	28	18		25			25	
10:00 PM		10	17	13		13			13	
11:00 PM		7	12	4		8			8	
Day Total		1227	1286	1313		1275			1275	
6 Weekday Average		96.2%	100.9%	103%						
% Week Average		96.2%	100.9%	103%		100%				
AM Peak Volume		9:00 AM 85	10:00 AM 91	11:00 AM 92		10:00 AM 85			10:00 AM 85	
PM Peak Volume		4:00 PM 129	4:00 PM 136	4:00 PM 116		4:00 PM 127			4:00 PM 127	

SPECIFIC LOCATION:

QC JOB #: 16124307 DIRECTION: EB, WB

**DATE:** Apr 4 2023

CITY/STATE:	Shasta,	CA														DATE: Ap	or 4 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
start rille	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 ace speed	in Pac
12:00 AM	0	0	0	0	1	1	7	3	0	0	0	0	0	0	12	41-50	10
01:00 AM	1	0	0	0	0	0	0	2	1	0	0	0	0	0	4	46-55	3
02:00 AM	0	0	0	0	0	3	1	2	0	0	0	0	0	0	6	36-45	4
03:00 AM	0	0	0	0	0	0	2	4	5	0	1	0	0	0	12	46-55	9
04:00 AM	1	0	0	0	1	1	6	4	4	0	2	0	0	0	19	41-50	10
05:00 AM	3	0	3	1	4	3	15	14	6	1	0	0	0	0	50	41-50	29
06:00 AM	1	0	0	1	1	6	27	22	18	3	1	0	0	0	80	41-50	49
07:00 AM	5	0	4	1	3	9	42	57	24	7	1	0	0	0	153	41-50	99
08:00 AM	0	0	0	0	4	11	42	62	32	4	0	0	0	0	155	41-50	104
09:00 AM	3	0	0	3	6	6	48	85	28	6	0	0	0	0	185	41-50	133
10:00 AM	9	0	0	11	3	4	35	78	34	4	0	1	0	0	179	41-50	113
11:00 AM	3	0	0	6	8	11	34	55	48	8	1	0	0	0	174	46-55	103
12:00 PM	6	0	0	5	8	5	35	68	30	12	0	0	0	0	169	41-50	103
01:00 PM	6	0	0	2	2	15	44	74	39	5	1	0	0	0	188	41-50	118
02:00 PM	3	0	0	0	8	12	35	72	42	5	0	1	0	0	178	46-55	114
03:00 PM	6	0	0	4	7	2	34	69	37	14	4	0	0	0	177	46-55	106
04:00 PM	3	0	0	2	0	9	60	90	40	11	1	0	0	0	216	41-50	150
05:00 PM	3	0	0	1	0	5	29	88	33	11	2	0	0	0	172	46-55	121
06:00 PM	2	0	0	0	5	12	19	34	38	6	0	0	0	0	116	46-55	72
07:00 PM	1	0	0	0	0	7	11	29	23	6	0	0	0	0	77	46-55	52
08:00 PM	0	0	0	0	1	8	17	18	6	0	1	0	0	0	51	41-50	35
09:00 PM	0	0	2	0	2	5	14	6	2	2	1	0	0	0	34	41-50	20
10:00 PM	1	0	0	0	0	2	5	4	3	2	0	0	0	0	17	41-50	9
11:00 PM	1	0	0	0	0	3	4	2	3	1	0	0	0	0	14	36-45	7
Day Total	58	0	9	37	64	140	566	942	496	108	16	2	0	0	2438	41-50	1508
Percent	2.4%	0%	0.4%	1.5%	2.6%	5.7%	23.2%	38.6%	20.3%	4.4%	0.7%	0.1%	0%	0%	2 130	11 30	1300
AM Peak		12:00 AM	7:00 AM		11:00 AM	8:00 AM	9:00 AM			11:00 AM				12:00 AM	9:00 AM		
Volume	9	0	4	11	8	11	48	85	48	8	2	1	0	0	185		
PM Peak		12:00 PM	9:00 PM		12:00 PM	1:00 PM	4:00 PM	4:00 PM	2:00 PM	3:00 PM	3:00 PM			12:00 PM	4:00 PM		
Volume	6	0	2	5	8	15	60	90	42	14	4	1	0	0	216		

SPECIFIC LOCATION:

QC JOB #: 16124307 **DIRECTION:** EB, WB

CITY/STATE:	Shasta,	CA														DATE: Ap	or 5 202
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pac
12:00 AM	0	0	4	0	0	0	2	4	1	0	0	0	0	0	11	41-50	6
01:00 AM	0	0	0	0	1	0	1	1	0	0	0	0	0	0	3	41-50	2
02:00 AM	0	0	0	0	0	2	4	0	1	1	0	0	0	0	8	36-45	6
03:00 AM	0	0	0	0	0	0	1	4	0	1	0	0	0	0	6	41-50	5
04:00 AM	0	0	0	0	0	0	7	6	3	1	0	0	0	0	17	41-50	13
05:00 AM	2	0	0	0	3	5	7	18	11	3	4	1	0	0	54	46-55	29
06:00 AM	1	0	0	0	5	11	14	35	23	4	0	0	0	0	93	46-55	58
07:00 AM	4	0	1	5	3	6	27	45	34	11	3	0	0	0	139	46-55	79
08:00 AM	6	0	1	3	8	17	27	51	60	13	4	1	1	0	192	46-55	111
09:00 AM	3	0	0	5	7	6	36	76	35	9	0	0	1	0	178	41-50	112
10:00 AM	2	0	0	4	5	10	46	81	40	3	1	0	0	0	192	41-50	127
11:00 AM	6	0	1	3	2	16	38	56	37	12	1	0	0	0	172	41-50	94
12:00 PM	2	0	2	1	5	14	36	63	42	8	0	0	0	0	173	46-55	105
01:00 PM	7	0	2	0	1	5	47	63	48	7	0	0	0	0	180	46-55	111
02:00 PM	6	0	0	2	4	3	33	77	44	5	1	0	0	0	175	46-55	121
03:00 PM	2	0	0	2	8	7	40	86	47	8	0	1	0	0	201	46-55	133
04:00 PM	8	0	0	1	4	14	47	94	43	7	0	0	0	0	218	41-50	141
05:00 PM	3	0	0	0	2	5	38	74	44	14	4	0	0	0	184	46-55	118
06:00 PM	3	0	0	0	2	3	21	41	42	14	6	0	0	0	132	46-55	83
07:00 PM	3	0	0	0	0	2	12	18	14	2	2	1	0	0	54	46-55	32
08:00 PM	1	0	0	0	0	7	14	12	14	2	0	0	0	0	50	44-53	26
09:00 PM	0	0	0	0	1	4	11	17	5	2	0	0	0	0	40	41-50	28
10:00 PM	1	0	0	1	0	1	8	8	3	2	0	0	0	0	24	41-50	16
11:00 PM	1	0	0	0	1	0	4	5	1	1	0	0	0	0	13	41-50	9
Day Total	61	0	11	27	62	138	521	935	592	130	26	4	2	0	2500		4527
Percent	2.4%	0%	0.4%	1.1%	2.5%	5.5%	20.8%	37.3%	23.6%	5.2%	1%	0.2%	0.1%	0%	2509	46-55	1527
AM Peak Volume	8:00 AM 6	12:00 AM 0	12:00 AM 4	7:00 AM	8:00 AM 8	8:00 AM 17	10:00 AM 46	10:00 AM 81	8:00 AM 60	8:00 AM 13	5:00 AM 4	5:00 AM 1	8:00 AM 1	12:00 AM 0	8:00 AM 192		
PM Peak																	
Volume	4:00 PM	12:00 PM 0	12:00 PM 2	2:00 PM 2	3:00 PM 8	12:00 PM 14	1:00 PM 47	4:00 PM 94	1:00 PM 48	5:00 PM 14	6:00 PM 6	3:00 PM 1	12:00 PM 0	12:00 PM 0	4:00 PM 218		

SPECIFIC LOCATION:

QC JOB #: 16124307 **DIRECTION:** EB, WB

CITY/STATE:	Shasta,	CA														DATE: Ap	or 6 202
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	0	0	0	3	4	8	2	1	0	0	0	0	18	41-50	12
01:00 AM	0	0	0	0	0	0	1	1	2	0	0	0	0	0	4	46-55	3
02:00 AM	1	0	0	0	0	1	4	4	2	2	0	0	0	0	14	41-50	8
03:00 AM	1	0	0	0	1	0	2	5	9	4	1	0	0	0	23	46-55	14
04:00 AM	0	0	0	1	0	1	7	2	6	4	1	0	0	0	22	51-60	10
05:00 AM	2	0	0	0	3	3	11	18	13	2	3	0	0	0	55	46-55	31
06:00 AM	2	0	0	1	0	5	10	31	32	12	0	0	0	0	93	46-55	63
07:00 AM	5	0	0	0	8	1	18	50	49	15	3	1	1	0	151	46-55	99
08:00 AM	5	0	0	1	3	8	27	70	57	15	3	0	0	0	189	46-55	127
09:00 AM	5	0	0	1	6	11	30	73	49	18	0	0	0	0	193	46-55	122
10:00 AM	4	0	0	7	4	11	34	79	50	8	3	0	0	0	200	46-55	129
11:00 AM	5	0	0	6	15	2	21	84	46	8	2	0	0	0	189	46-55	130
12:00 PM	3	0	0	3	6	5	34	74	45	13	0	0	0	0	183	46-55	119
01:00 PM	8	0	0	6	2	7	21	78	60	13	5	1	0	0	201	46-55	138
02:00 PM	6	0	0	0	7	6	29	78	55	10	1	1	0	0	193	46-55	133
03:00 PM	6	0	0	6	6	8	37	95	72	12	2	0	0	0	244	46-55	167
04:00 PM	7	0	0	1	7	9	35	88	46	18	4	1	0	0	216	46-55	134
05:00 PM	5	0	0	0	0	3	36	58	43	17	5	0	0	0	167	46-55	101
06:00 PM	2	0	0	2	0	2	20	43	33	6	3	0	0	0	111	46-55	76
07:00 PM	2	0	0	0	0	3	17	20	17	8	1	0	0	0	68	41-50	37
08:00 PM	2	0	0	0	1	6	14	20	5	1	1	0	0	0	50	41-50	34
09:00 PM	0	0	0	1	3	9	12	5	1	1	0	0	0	0	32	36-45	21
10:00 PM	0	0	0	0	0	1	10	7	3	0	0	0	0	0	21	41-50	17
11:00 PM	0	0	0	1	0	0	3	2	0	1	0	0	0	0	7	41-50	5
Day Total	71	0	0	37	_72	105	437	993	697	189	38	4	1	0	2644	46-55	169
Percent	2.7%	0%	0%	1.4%	2.7%	4%	16.5%	37.6%	26.4%	7.1%	1.4%	0.2%	0%	0%			
AM Peak			12:00 AM							9:00 AM	5:00 AM	7:00 AM		12:00 AM	10:00 AM		
Volume	5	0	0	7	15	11	34	84	57	18	3	1	1	0	200		
PM Peak Volume	1:00 PM 8	12:00 PM 0	12:00 PM 0	1:00 PM 6	2:00 PM 7	4:00 PM 9	3:00 PM 37	3:00 PM 95	3:00 PM 72	4:00 PM 18	1:00 PM 5	1:00 PM 1	12:00 PM 0	12:00 PM 0	3:00 PM 244		

## SUMMARY - Tube Count - Speed Data

LOCATION: EB	SR 299 e	ast of Su	pan Rd													QC JOB	#: 16124307
SPECIFIC LOCA	ATION:															DIRECT	ION: EB, WB
CITY/STATE: S	hasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Name	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 dec speed	Pace
Grand Total	190	0	20	101	198	383	1524	2870	1785	427	80	10	3	0	7591	46-55	4655
Percent	2.5%	0%	0.3%	1.3%	2.6%	5%	20.1%	37.8%	23.5%	5.6%	1.1%	0.1%	0%	0%	7391	40-33	4033
Cumulative Percent	2.5%	2.5%	2.8%	4.1%	6.7%	11.8%	31.8%	69.6%	93.1%	98.8%	99.8%	100%	100%	100%			
ADT 2530															Mea	an Speed(Avera	ntile: 53 MPH age): 47 MPH dian: 47 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB, WB

DATE: Apr 4 2023

Start   Important   Start   Start   Start   Single   Single   Double   Double   Double   Multi   Multi   Multi   Classed   Incompany   I	CITY/STATE: Sr	iasta, CA														Apr 4 202
Trailers   Long   Trailers   Long   Trailers   Long   Single   Single   Double   Double   Double   Double   Multi   Multi   Multi   Multi   Classed	Start Time	Bikes	Cars &	2 Axle	Ruses	2 Axle 6			<5 Axl		>6 Axl	<6 Axl		>6 Axl		Total
01:00 AM		Direct	Trailers	Long	54363	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	
02:00 AM		0	9	0	0			0	2	0	0		0	0	0	12
03:00 AM	01:00 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	1	4
04:00 AM	02:00 AM	0	4	0	0	1	0	0	1	0	0	0	0	0	0	6
05:00 AM 0 28 8 0 2 1 0 0 6 1 0 1 0 0 1 0 0 3		0	8	2	0	1	0	0	1	0	0	0	0	0	0	12
06:00 AM	04:00 AM	0		2	0	1	0	0	2	1	0	1	0	0	1	19
07:00 AM		0		8	0	2	1	0	6	1	0	1	0	0	3	50
08:00 AM	06:00 AM		48		0	3	0	0	-	0	0	0	0	0	1	80
09:00 AM	07:00 AM	2	111	20	0	3	1	0	10	1	0	1	0	0	4	153
10:00 AM	08:00 AM	0	106	31	0	3	0	0	14	1	0	0	0	0	0	155
11:00 AM	09:00 AM	0	130	30	0	9	0	1	10	0	0	2	0	0	3	185
12:00 PM	10:00 AM	1	109	34	0	6	1	0	14	1	0	3	0	1	9	179
01:00 PM	11:00 AM	1	118	26	0	13	0	0	11	0	0	2	0	0	3	174
02:00 PM	12:00 PM	1	106	24	0	11	1	0	14	1	0	5	0	0	6	169
03:00 PM	01:00 PM	0	127	25	0	13	0	0	15	2	0	2	0	0	4	188
04:00 PM	02:00 PM	0	124	24	1	13	0	0	10	0	0	2	0	1	3	178
05:00 PM	03:00 PM	0	125	30	0	7	0	0	5	3	0	1	0	0	6	177
06:00 PM	04:00 PM	0	164	31	0	9	0	0	8	1	0	0	0	0	3	216
07:00 PM	05:00 PM	0	142	16	0	3	0	0	6	0	0	2	0	0	3	172
08:00 PM 09:00 PM 11         0 26         1 2         0 2         1 3         0 3         0 3         0 3         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06:00 PM	0	93	15	0	2	0	0	4	0	0	0	0	0	2	116
09:00 PM	07:00 PM	0	57	13	0	4		0	1	0	0	1	0	0	1	77
10:00 PM   0   15   0   0   0   0   0   0   1   0   0   0	08:00 PM	0	43	4	0	1	0	0	3	0	0	0	0	0	0	51
11:00 PM         0         7         2         0         1         0         0         1         0         0         2         0         0         1           Day Total Percent         6         1714         360         1         108         5         1         149         12         0         25         0         2         55         2           ADT 2438         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         0         25         0         2         55         2         2           ADT 2438         3         4         1         2         2         3         2         3         4         3         4	09:00 PM	1	26	2	0	1	1	0	3	0	0	0	0	0	0	34
Day Total Percent         6 0.2%         1714 360 1 108 5 1 148 0.2%         1 149 12 0 25 0 25 0 25 0 22 55 0.2%         2 55 0 22 55 0.2%         2 55 0 22 55 0 0.2%         2 55 0 0.2%         2 55 0 0.2%         2 55 0 0.2%         2 55 0 0.2%         2 55 0 0.2%         2 55 0 0.2%         2 55 0 0.2%         2 2 0 0 0.2%         2 2 0 0 0.2%         2 2 0 0 0.2%         2 2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0.2%         2 0 0 0 0.2%         2 0 0 0 0.2%         2 0 0 0 0.2%         2 0 0 0 0.2%         2 0 0 0 0.2%         2 0 0 0 0.2%         2 0 0 0 0.2%         2 0 0 0 0.2%         2 0 0 0 0 0.2%         2 0 0 0 0 0.2%         2 0 0 0 0 0 0.2%         2 0 0 0 0 0 0.2%         2 0 0 0 0 0 0 0 0.2%         2 0 0 0 0 0 0 0 0 0 0.2%         2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10:00 PM	0	15	0	0	0	0	0	1	0	0	0	0	0	1	17
ADT 2438  AM Peak Volume 2 130 34 0 13 1 100 PM 4:00 PM 4:00 PM 4:00 PM 2:00 PM 1:00 PM 12:00 PM 12:00 PM 12:00 PM 1:00 PM 1:0	11:00 PM	0	7	2	0	1	0	0	1	0	0	2	0	0	1	14
ADT 2438  ADT 2438  AM Peak 7:00 AM 9:00 AM 10:00 AM 12:00 AM 12:00 AM 11:00 AM 5:00 AM 9:00 AM 8:00 AM 4:00 AM 12:00 AM 10:00 AM 10:00 AM 10:00 AM 10:00 AM 9:00 AM 10:00 AM	Day Total	6	1714	360	1	108	5	1	149	12	0		0	2		2438
2438  AM Peak Volume 2 130 34 0 133 1 1 1 14 1 0 3 3 0 1 12:00 PM 4:00 PM 4:00 PM 4:00 PM 2:00 PM 1:00 PM 12:00	Percent	0.2%	70.3%	14.8%	0%	4.4%	0.2%	0%	6.1%	0.5%	0%	1%	0%	0.1%	2.3%	2430
Volume         2         130         34         0         13         1         1         14         1         0         3         0         1         9         1           PM Peak         12:00 PM         4:00 PM         2:00 PM         1:00 PM         12:00 PM         1:00 PM         3:00 PM         12:00 PM         12:00 PM         12:00 PM         12:00 PM         4:00 PM         12:00 P																
PM Peak 12:00 PM 4:00 PM 4:00 PM 2:00 PM 1:00 PM 12:00 PM 12:00 PM 1:00 PM 1:0																9:00 AI
																185
Volume         1         164         31         1         13         1         0         15         3         0         5         0         1         6         2		12:00 PM	4:00 PM		2:00 PM		12:00 PM							2:00 PM		4:00 PI
	Volume	1	164	31	1	13	1	0	15	3	0	5	0	1	6	216
		1 4/44/20	22 4.55 014									COLUBATE O		110/11	11 11	

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124307 DIRECTION: EB, WB
DATE: Apr 5 2023

CITY/STATE: Sh	iasta, CA													DATE:	Apr 5 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
Start Tille	DIKES	Trailers	Long	buses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	TOLAI
12:00 AM	2	5	1	0	1	2	0	0	0	0	0	0	0	0	11
01:00 AM	0	2	0	0	0	0	0	1	0	0	0	0	0	0	3
02:00 AM	0	3	1	0	1	0	0	2	0	0	1	0	0	0	8
03:00 AM	0	4	1	0	0	0	0	1	0	0	0	0	0	0	6
04:00 AM	0	13	1	0	1	0	0	2	0	0	0	0	0	0	17
05:00 AM	0	33	6	0	5	0	0	7	0	0	1	0	0	2	54
06:00 AM	0	54	25	0	6	0	0	6	1	0	0	0	0	1	93
07:00 AM	1	88	34	0	4	0	0	5	3	0	0	0	0	4	139
MA 00:80	2	123	37	0	14	2	0	8	0	0	0	0	0	6	192
09:00 AM	1	115	33	0	6	1	0	13	1	0	6	0	0	2	178
10:00 AM	1	135	24	0	10	1	0	14	0	0	5	0	0	2	192
11:00 AM	0	122	22	0	7	1	0	10	1	0	3	0	0	6	172
12:00 PM	1	121	22	0	10	1	0	12	1	0	3	0	0	2	173
01:00 PM	0	121	26	0	17	0	0	7	1	0	1	0	0	7	180
02:00 PM	0	130	20	0	4	0	0	14	1	0	0	0	0	6	175
03:00 PM	0	145	33	0	9	0	0	10	0	0	2	0	0	2	201
04:00 PM	1	167	28	0	5	0	0	9	0	0	2	0	0	6	218
05:00 PM	0	138	27	0	9	0	0	6	0	0	1	0	0	3	184
06:00 PM	0	92	27	0	5	0	0	5	0	0	0	0	0	3	132
07:00 PM	0	40	8	1	1	0	0	1	0	0	0	0	0	3	54
08:00 PM	0	39	4	0	0	0	0	5	0	0	1	0	0	1	50
09:00 PM	0	27	7	0	1	0	0	3	0	0	2	0	0	0	40
10:00 PM	0	19	2	0	0	0	0	1	1	0	0	0	0	1	24
11:00 PM	0	10	1	0	0	0	0	1	0	0	0	0	0	1	13
Day Total	9	1746	390	1	116	8	0	143	10	0	28	0	0	58	250
Percent	0.4%	69.6%	15.5%	0%	4.6%	0.3%	0%	5.7%	0.4%	0%	1.1%	0%	0%	2.3%	250:
ADT 2509															
AM Peak	12:00 AM	10:00 AM	8:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	10:00 AM	7:00 AM	12:00 AM	9:00 AM	12:00 AM	12:00 AM	8:00 AM	8:00 A
Volume	2	135	37	0	14	2	0	14	3	0	6	0	0	6	192
PM Peak	12:00 PM	4:00 PM	3:00 PM	7:00 PM	1:00 PM	12:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	1:00 PM	4:00 P
Volume	1	167	33	1	17	1	0	14	1	0	3	0	0	7	218
mments:															

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB, WB

**DATE:** Apr 6 2023

CITY/STATE: Sh	iasta, CA	Cars &	2 Axle		2 Axle 6	3 Axle	A Aula	<5 Axl	5 Axle	>6 Axl	<6 Axl	C Aula	>6 Axl		Apr 6 202
Start Time	Bikes	Trailers		Buses	Z Axie 6	Single	4 Axle	<5 Axi Double	Double	>6 AXI Double	< o Axi Multi	6 Axle Multi	>6 AXI Multi	Not Classed	Total
42.00.414			Long				Single								4.0
12:00 AM	0	14	2	0	1	0	0	1	0	0	0	0	0	0	18
01:00 AM	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
02:00 AM	0	6	4	0	1	0	0	2	0	0	0	0	0	1	14
03:00 AM	0	9	7	0	4	0	0	2	0	0	0	0	0	1	23
04:00 AM	0	13	2	0	2	0	0	5	0	0	0	0	0	0	22
05:00 AM	0	29	8	0	5	0	0	8	0	0	3	0	0	2	55
06:00 AM	1	41	29	0	11	0	0	9	0	0	0	0	0	2	93
07:00 AM	0	94	28	0	10	0	0	14	0	0	0	0	0	5	151
MA 00:80	0	120	34	0	13	0	0	17	0	0	0	0	0	5	189
09:00 AM	1	132	28	0	13	0	0	14	0	0	1	0	0	4	193
10:00 AM	1	131	28	1	14	2	0	16	1	0	2	0	0	4	200
11:00 AM	1	136	25	0	11	0	0	6	1	0	4	0	0	5	189
12:00 PM	0	121	29	0	13	0	0	14	2	0	1	0	0	3	183
01:00 PM	1	130	28	0	18	1	0	13	0	0	2	0	0	8	201
02:00 PM	0	149	23	0	8	0	0	5	0	0	2	0	0	6	193
03:00 PM	1	172	36	0	11	1	0	14	0	0	3	0	0	6	244
04:00 PM	0	147	37	0	10	0	0	11	0	0	4	0	0	7	216
05:00 PM	0	129	25	0	3	0	0	4	0	0	1	0	0	5	167
06:00 PM	1	83	18	0	3	1	0	2	0	0	1	0	0	2	111
07:00 PM	1	47	10	0	4	0	0	4	0	0	0	0	0	2	68
08:00 PM	0	38	6	0	3	0	0	1	0	0	0	0	0	2	50
09:00 PM	1	24	5	0	2	0	0	0	0	0	0	0	0	0	32
10:00 PM	0	14	4	0	2	0	0	1	0	0	0	0	0	0	21
11:00 PM	0	6	0	0	1	0	0	0	0	0	0	0	0	0	7
Day Total	9	1788	417	11	163	5	0	163	4	0	24	0	0	70	2644
Percent	0.3%	67.6%	15.8%	0%	6.2%	0.2%	0%	6.2%	0.2%	0%	0.9%	0%	0%	2.6%	
ADT 2644															
AM Peak	6:00 AM	11:00 AM	8:00 AM		10:00 AM		12:00 AM	8:00 AM					12:00 AM		10:00 A
Volume	1	136	34	1	14	2	0	17	1	0	4	0	0	5	200
PM Peak Volume	1:00 PM 1	3:00 PM 172	4:00 PM 37	12:00 PM 0	1:00 PM 18	1:00 PM 1	12:00 PM 0	12:00 PM 14	12:00 PM 2	12:00 PM 0	4:00 PM 4	12:00 PM 0	12:00 PM 0	1:00 PM 8	3:00 PI 244
mments:															
		222 4:55 014											- 116/1-44		

LOCATION: EB SR 299 east of Supan Rd QC JOB #: 16124307 SPECIFIC LOCATION: **DIRECTION: EB, WB** CITY/STATE: Shasta, CA DATE: Apr 4 2023 - Apr 6 2023 Cars & 2 Axle 2 Axle 6 3 Axle 4 Axle <5 Axl 5 Axle >6 Axl <6 Axl 6 Axle >6 AxI Not Start Time **Bikes Buses** Total **Trailers** Long Tire Single Single Double Double Double Multi Multi Classed Multi **Grand Total** 24 5248 1167 3 387 18 1 455 26 0 77 0 2 183 7591 0% 0.2% 0% 6% 0.3% 1% 0% 0% Percent 0.3% 69.1% 15.4% 5.1% 0% 2.4% ADT 2530

Report generated on 4/11/2023 4:55 PM

Comments:



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB, WB

**DATE**: Apr 4 2023 - Apr 6 2023

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday	Sat	Sun	Average Week	Average Week Profile
		4 Apr 23	5 Apr 23	6 Apr 23		Hourly Traffic			Hourly Traffic	
12:00 AM		12	11	18		14			14	
01:00 AM		4	3	4		4			4	
02:00 AM		6	8	14		9			9	
03:00 AM		12	6	23		14			14	
04:00 AM		19	17	22		19			19	
05:00 AM		50	54	55		53			53	
06:00 AM		80	93	93		89			89	
07:00 AM		153	139	151		148			148	
08:00 AM		155	192	189		179			179	
09:00 AM		185	178	193		185			185	
10:00 AM		179	192	200		190			190	
11:00 AM		174	172	189		178			178	
12:00 PM		169	173	183		175			175	
01:00 PM		188	180	201		190			190	
02:00 PM		178	175	193		182			182	2011
03:00 PM		177	201	244		207			207	
04:00 PM		216	218	216		217			217	
05:00 PM		172	184	167		174			174	
06:00 PM		116	132	111		120			120	
07:00 PM		77	54	68		66			66	
08:00 PM		51	50	50		50			50	
09:00 PM		34	40	32		35			35	
10:00 PM		17	24	21		21			21	
11:00 PM		14	13	7		11			11	
Day Total		2438	2509	2644		2530			2530	
% Weekday Average		96.4%	99.2%	104.5%				- 11		
% Week										
Average		96.4%	99.2%	104.5%		100%				
AM Peak		9:00 AM	8:00 AM	10:00 AM		10:00 AM			10:00 AM	
Volume		185	192	200		190			190	
PM Peak		4:00 PM	4:00 PM	3:00 PM		4:00 PM			4:00 PM	
Volume		216	218	244		217			217	

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

CITY/STATE:	Shasta,	CA														DATE: Ap	or 4 202
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	0	0	0	0	2	2	0	0	0	0	0	0	4	41-50	4
01:00 AM	1	0	0	0	0	0	0	1	1	0	0	0	0	0	3	46-55	2
02:00 AM	0	0	0	0	0	1	1	1	0	0	0	0	0	0	3	36-45	2
03:00 AM	0	0	0	0	0	0	1	4	3	0	1	0	0	0	9	46-55	7
04:00 AM	0	0	0	0	0	0	3	4	1	0	2	0	0	0	10	41-50	7
05:00 AM	1	0	2	0	1	0	4	9	5	1	0	0	0	0	23	46-55	14
06:00 AM	1	0	0	0	0	0	5	14	11	1	1	0	0	0	33	46-55	25
07:00 AM	2	0	0	0	0	0	6	34	23	6	1	0	0	0	72	46-55	57
08:00 AM	0	0	0	0	0	1	14	40	27	4	0	0	0	0	86	46-55	67
09:00 AM	0	0	0	0	0	0	17	61	17	5	0	0	0	0	100	45-54	78
10:00 AM	3	0	0	0	1	1	13	54	23	4	0	1	0	0	100	46-55	77
11:00 AM	3	0	0	0	0	2	20	28	35	6	1	0	0	0	95	46-55	63
12:00 PM	1	0	0	0	1	1	8	45	23	8	0	0	0	0	87	46-55	68
01:00 PM	3	0	0	0	0	3	25	48	25	4	1	0	0	0	109	41-50	73
02:00 PM	1	0	0	0	3	4	13	42	28	3	0	0	0	0	94	46-55	70
03:00 PM	2	0	0	0	1	0	11	36	25	9	2	0	0	0	86	46-55	61
04:00 PM	2	0	0	0	0	3	9	48	18	7	0	0	0	0	87	46-55	66
05:00 PM	3	0	0	1	0	1	13	41	16	8	2	0	0	0	85	46-55	57
06:00 PM	1	0	0	0	0	2	6	16	16	6	0	0	0	0	47	46-55	32
07:00 PM	1	0	0	0	0	2	2	19	12	4	0	0	0	0	40	46-55	31
08:00 PM	0	0	0	0	0	2	3	7	6	0	1	0	0	0	19	46-55	13
09:00 PM	0	0	0	0	0	1	1	2	0	1	0	0	0	0	5	41-50	3
10:00 PM	1	0	0	0	0	1	2	1	1	1	0	0	0	0	7	41-50	3
11:00 PM	1	0	0	0	0	1	3	1	1	0	0	0	0	0	7	38-47	4
Day Total	27	0	2	1	7	26	182	558	317	78	12	1	0	0			
Percent	2.2%	0%	0.2%	0.1%	0.6%	2.1%	15%	46.1%	26.2%	6.4%	1%	0.1%	0%	0%	1211	46-55	875
AM Peak		12:00 AM	5:00 AM	12:00 AM	5:00 AM	11:00 AM		9:00 AM		7:00 AM	4:00 AM	10:00 AM			9:00 AM		
Volume	3	0	2	0	1	2	20	61	35	6	2	1	0	0	100		
PM Peak Volume	1:00 PM 3	12:00 PM 0	12:00 PM 0	5:00 PM 1	2:00 PM 3	2:00 PM 4	1:00 PM 25	1:00 PM 48	2:00 PM 28	3:00 PM 9	3:00 PM 2	12:00 PM 0	12:00 PM 0	12:00 PM 0	1:00 PM 109		

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 **DIRECTION: WB** 

DATE: Apr 5 2023

CL - J. T	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Tarak	B 6	Numbe
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	in Pac
12:00 AM	0	0	0	0	0	0	1	3	1	0	0	0	0	0	5	43-52	4
01:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	36-45	1
02:00 AM	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	36-45	2
03:00 AM	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3	41-50	2
04:00 AM	0	0	0	0	0	0	2	4	1	1	0	0	0	0	8	41-50	6
05:00 AM	0	0	0	0	2	2	2	10	9	1	3	1	0	0	30	46-55	19
06:00 AM	0	0	0	0	0	0	2	22	16	4	0	0	0	0	44	46-55	38
07:00 AM	3	0	0	0	0	0	5	24	26	10	3	0	0	0	71	46-55	50
08:00 AM	1	0	0	0	0	3	8	36	46	11	3	1	1	0	110	46-55	82
09:00 AM	1	0	0	1	0	3	16	42	27	7	0	0	1	0	98	46-55	69
10:00 AM	0	0	0	0	2	0	21	49	28	1	0	0	0	0	101	46-55	77
11:00 AM	3	0	0	0	0	2	18	39	23	10	1	0	0	0	96	46-55	62
12:00 PM	1	0	0	0	0	10	19	32	34	5	0	0	0	0	101	46-55	66
01:00 PM	3	0	2	0	0	0	21	32	33	4	0	0	0	0	95	46-55	65
02:00 PM	3	0	0	0	1	2	20	29	22	5	0	0	0	0	82	46-55	51
03:00 PM	1	0	0	0	1	3	20	43	23	3	0	1	0	0	95	46-55	66
04:00 PM	3	0	0	0	1	2	13	44	17	2	0	0	0	0	82	46-55	61
05:00 PM	2	0	0	0	2	1	15	37	23	7	1	0	0	0	88	46-55	60
06:00 PM	0	0	0	0	2	0	10	18	20	5	1	0	0	0	56	46-55	38
07:00 PM	2	0	0	0	0	1	2	9	5	1	1	0	0	0	21	46-55	14
08:00 PM	0	0	0	0	0	4	2	3	5	0	0	0	0	0	14	46-55	8
09:00 PM	0	0	0	0	0	2	1	9	0	0	0	0	0	0	12	41-50	10
10:00 PM	0	0	0	0	0	0	2	2	1	2	0	0	0	0	7	41-50	4
11:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	26-35	1
Day Total	23	0	2	1	12	36	203	488	360	80	13	3	2	0	1223	46-55	848
Percent	1.9%	0%	0.2%	0.1%	1%	2.9%	16.6%	39.9%	29.4%	6.5%	1.1%	0.2%	0.2%	0%	1223	46-55	848
AM Peak Volume	7:00 AM 3	12:00 AM 0	12:00 AM 0	9:00 AM 1	5:00 AM 2	8:00 AM 3	10:00 AM 21	10:00 AM 49	8:00 AM 46	8:00 AM 11	5:00 AM 3	5:00 AM 1	8:00 AM 1	12:00 AM 0	8:00 AM 110		
PM Peak	1:00 PM	12:00 PM	1:00 PM	12:00 PM	5:00 PM	12:00 PM	1:00 PM	4:00 PM	12:00 PM	5:00 PM	5:00 PM	3:00 PM	12:00 PM	12:00 PM	12:00 PM		
Volume	3	0	2	0	2	10	21	44	34	7	1	1	0	0	101		
Comments:																	

LOCATION: EB SR 299 east of Supan Rd
SPECIFIC LOCATION:

CITY/STATE: Shasta, CA

QC JOB #: 16124307 DIRECTION: WB DATE: Apr 6 2023

tart Time 12:00 AM 01:00 AM 02:00 AM	1 15 0	16 20	21	26	31	36	41	4.0	F4							1	
12:00 AM 01:00 AM		20				30	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
01:00 AM	0		25	30	35	40	45	50	55	60	65	70	75	999	TOtal	Pace Speed	in Pac
		0	0	0	0	1	2	4	1	0	0	0	0	0	8	41-50	6
02:00 AM	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3	46-55	3
	1	0	0	0	0	0	3	2	0	1	0	0	0	0	7	41-50	5
03:00 AM	0	0	0	0	0	0	0	2	6	4	1	0	0	0	13	51-60	10
04:00 AM	0	0	0	0	0	0	0	2	2	3	1	0	0	0	8	51-60	5
05:00 AM	0	0	0	0	0	1	7	6	9	2	3	0	0	0	28	46-55	15
06:00 AM	0	0	0	0	0	0	2	15	20	5	0	0	0	0	42	46-55	35
07:00 AM	3	0	0	0	0	0	3	21	32	11	3	1	1	0	75	46-55	53
08:00 AM	2	0	0	0	0	0	12	37	41	12	3	0	0	0	107	46-55	78
09:00 AM	3	0	0	0	0	1	15	43	32	14	0	0	0	0	108	46-55	75
10:00 AM	3	0	0	0	3	7	15	53	29	5	1	0	0	0	116	46-55	82
11:00 AM	1	0	0	0	2	1	12	42	32	6	1	0	0	0	97	46-55	74
12:00 PM	1	0	0	0	0	0	13	36	31	8	0	0	0	0	89	46-55	67
01:00 PM	7	0	0	0	0	3	7	51	37	9	1	1	0	0	116	46-55	88
02:00 PM	3	0	0	0	1	2	9	41	31	5	0	1	0	0	93	46-55	72
03:00 PM	4	0	0	1	3	0	16	54	43	8	2	0	0	0	131	46-55	97
04:00 PM	2	0	0	0	0	3	11	42	26	13	2	1	0	0	100	46-55	68
05:00 PM	2	0	0	0	0	0	12	25	29	12	4	0	0	0	84	46-55	54
06:00 PM	2	0	0	0	0	2	5	11	14	2	2	0	0	0	38	46-55	25
07:00 PM	1	0	0	0	0	1	7	6	6	6	0	0	0	0	27	41-50	13
08:00 PM	1	0	0	0	0	0	4	7	2	1	1	0	0	0	16	41-50	11
09:00 PM	0	0	0	0	1	4	5	2	1	1	0	0	0	0	14	36-45	9
10:00 PM	0	0	0	0	0	0	5	3	0	0	0	0	0	0	8	41-50	8
11:00 PM	0	0	0	1	0	0	0	1	0	1	0	0	0	0	3	21-30	1
Day Total	36	0	0	2	10	26	165	507	426	129	25	4	1	0	1331	46-55	933
Percent	2.7%	0%	0%	0.2%	0.8%	2%	12.4%	38.1%	32%	9.7%	1.9%	0.3%	0.1%	0%			
I																	
		12:00 AM								9:00 AM	5:00 AM	7:00 AM		12:00 AM	10:00 AM		
Volume	3	0	0	0	3	7	15	53	41	14	3	1	1	0	116		
PM Peak	1:00 PM	12:00 PM	12:00 PM	3:00 PM	3:00 PM	9:00 PM	3:00 PM	3:00 PM	3:00 PM	4:00 PM	5:00 PM	1:00 PM	12:00 PM	12:00 PM	3:00 PM		
Volume	7	0	0	1	3	4	16	54	43	13	4	1	0	0	131		
Comments:																	

LOCATION: EB	SR 299 e	ast of Su	pan Rd													QC JOB	#: 16124307
SPECIFIC LOCA	ATION:															DIR	ECTION: WB
CITY/STATE: S	hasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Hange	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Tucc Specu	Pace
Grand Total	86	0	4	4	29	88	550	1553	1103	287	50	8	3	0	3765	46-55	2656
Percent	2.3%	0%	0.1%	0.1%	0.8%	2.3%	14.6%	41.2%	29.3%	7.6%	1.3%	0.2%	0.1%	0%	3703	40-33	2030
Cumulative	2.3%	2.3%	2.4%	2.5%	3.3%	5.6%	20.2%	61.5%	90.8%	98.4%	99.7%	99.9%	100%	100%			
Percent	2.070	2.070	2,	2.070	0.070	0.070	201270	02.070	30.070	301170	331770	33.370	20070	20070			
ADT 1255															Mea	an Speed(Avera Med	ntile: 54 MPH nge): 48 MPH dian: 48 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

DATE: Apr 4 2023

CITY/STATE: Sh	lasta, e, t														Apr 4 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
Start Time	DIRCS	Trailers	Long	Dases	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
01:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	1	3
02:00 AM	0	2	0	0	0	0	0	1	0	0	0	0	0	0	3
03:00 AM	0	6	2	0	0	0	0	1	0	0	0	0	0	0	9
04:00 AM	0	6	2	0	1	0	0	0	0	0	1	0	0	0	10
05:00 AM	0	12	5	0	0	1	0	3	0	0	1	0	0	1	23
06:00 AM	0	25	3	0	1	0	0	3	0	0	0	0	0	1	33
07:00 AM	0	60	6	0	0	0	0	3	0	0	1	0	0	2	72
08:00 AM	0	55	21	0	1	0	0	9	0	0	0	0	0	0	86
09:00 AM	0	72	16	0	4	0	1	5	0	0	2	0	0	0	100
10:00 AM	0	67	16	0	3	0	0	7	0	0	3	0	1	3	100
11:00 AM	1	64	14	0	8	0	0	3	0	0	2	0	0	3	95
12:00 PM	0	58	15	0	2	0	0	6	0	0	5	0	0	1	87
01:00 PM	0	74	14	0	9	0	0	9	0	0	2	0	0	1	109
02:00 PM	0	65	13	1	6	0	0	7	0	0	0	0	1	1	94
03:00 PM	0	56	21	0	5	0	0	2	0	0	0	0	0	2	86
04:00 PM	0	61	13	0	7	0	0	3	1	0	0	0	0	2	87
05:00 PM	0	69	6	0	2	0	0	3	0	0	2	0	0	3	85
06:00 PM	0	40	4	0	1	0	0	1	0	0	0	0	0	1	47
07:00 PM	0	27	8	0	3	0	0	0	0	0	1	0	0	1	40
08:00 PM	0	16	0	0	1	0	0	2	0	0	0	0	0	0	19
09:00 PM	0	4	0	0	0	0	0	1	0	0	0	0	0	0	5
10:00 PM	0	5	0	0	0	0	0	1	0	0	0	0	0	1	7
11:00 PM	0	1	1	0	1	0	0	1	0	0	2	0	0	1	7
Day Total	1	851	180	11	55	1	1	71	1	0	22	0	2	25	1211
Percent	0.1%	70.3%	14.9%	0.1%	4.5%	0.1%	0.1%	5.9%	0.1%	0%	1.8%	0%	0.2%	2.1%	1211
ADT 1211															
AM Peak	11:00 AM	9:00 AM	8:00 AM	12:00 AM		5:00 AM	9:00 AM	8:00 AM				12:00 AM	10:00 AM		9:00 Al
Volume	1	72	21	0	8	1	1	9	0	0	3	0	1	3	100
PM Peak Volume	12:00 PM 0	1:00 PM 74	3:00 PM 21	2:00 PM 1	1:00 PM 9	12:00 PM 0	12:00 PM 0	1:00 PM 9	4:00 PM 1	12:00 PM 0	12:00 PM 5	12:00 PM 0	2:00 PM 1	5:00 PM 3	1:00 PI 109
omments:	J	, -		_		- 0			_	0		0		3	103
minems.	1 4/44/20												- 110/1-44		

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

DATE: Apr 5 2023

LITY/STATE: Sha	asia, CA														Apr 5 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
		Trailers	Long		Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	
12:00 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
01:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
02:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2
03:00 AM	0	2	0	0	0	0	0	1	0	0	0	0	0	0	3
04:00 AM	0	7	0	0	0	0	0	1	0	0	0	0	0	0	8
05:00 AM	0	19	1	0	4	0	0	5	0	0	1	0	0	0	30
06:00 AM	0	31	10	0	1	0	0	2	0	0	0	0	0	0	44
07:00 AM	0	51	15	0	0	0	0	2	0	0	0	0	0	3	71
08:00 AM	0	73	28	0	3	0	0	5	0	0	0	0	0	1	110
09:00 AM	1	66	18	0	2	0	0	5	0	0	6	0	0	0	98
10:00 AM	0	74	14	0	5	0	0	3	0	0	5	0	0	0	101
11:00 AM	0	70	9	0	4	0	0	7	0	0	3	0	0	3	96
12:00 PM	0	71	13	0	5	0	0	9	0	0	2	0	0	1	101
01:00 PM	0	60	16	0	10	0	0	4	1	0	1	0	0	3	95
02:00 PM	0	58	10	0	0	0	0	11	0	0	0	0	0	3	82
03:00 PM	0	73	12	0	3	0	0	5	0	0	1	0	0	1	95
04:00 PM	1	67	4	0	4	0	0	4	0	0	0	0	0	2	82
05:00 PM	0	64	11	0	5	0	0	5	0	0	1	0	0	2	88
06:00 PM	0	36	14	0	3	0	0	3	0	0	0	0	0	0	56
07:00 PM	0	16	2	0	0	0	0	1	0	0	0	0	0	2	21
08:00 PM	0	9	2	0	0	0	0	2	0	0	1	0	0	0	14
09:00 PM	0	8	0	0	1	0	0	1	0	0	2	0	0	0	12
10:00 PM	0	6	0	0	0	0	0	1	0	0	0	0	0	0	7
11:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Day Total	2	866	179	0	50	0	0	80	1	0	24	0	0	21	1223
Percent	0.2%	70.8%	14.6%	0%	4.1%	0%	0%	6.5%	0.1%	0%	2%	0%	0%	1.7%	1225
ADT 1223															
AM Peak	9:00 AM	10:00 AM	8:00 AM		10:00 AM						9:00 AM		12:00 AM		8:00 A
Volume	1	74	28	0	5	0	0	7	0	0	6	0	0	3	110
PM Peak	4:00 PM	3:00 PM	1:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	2:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 P
Volume		73	16		10							0			101

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

DATE: Apr 6 2023

CITY/STATE: Sh	nasta, CA													DATE:	Apr 6 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
Start Time	Bikes	Trailers	Long	Buses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 AM	0	6	1	0	0	0	0	1	0	0	0	0	0	0	8
01:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00 AM	0	2	2	0	1	0	0	1	0	0	0	0	0	1	7
03:00 AM	0	4	4	0	3	0	0	2	0	0	0	0	0	0	13
04:00 AM	0	6	0	0	1	0	0	1	0	0	0	0	0	0	8
05:00 AM	0	17	6	0	2	0	0	2	0	0	1	0	0	0	28
06:00 AM	0	24	7	0	6	0	0	5	0	0	0	0	0	0	42
07:00 AM	0	50	12	0	3	0	0	7	0	0	0	0	0	3	75
08:00 AM	0	75	15	0	8	0	0	7	0	0	0	0	0	2	107
09:00 AM	1	78	15	0	6	0	0	5	0	0	1	0	0	2	108
10:00 AM	0	79	16	0	9	0	0	7	0	0	2	0	0	3	116
11:00 AM	0	74	11	0	6	0	0	2	0	0	3	0	0	1	97
12:00 PM	0	62	13	0	6	0	0	6	0	0	1	0	0	1	89
01:00 PM	0	77	12	0	8	0	0	10	0	0	2	0	0	7	116
02:00 PM	0	68	13	0	4	0	0	4	0	0	1	0	0	3	93
03:00 PM	0	91	16	0	6	0	0	11	0	0	3	0	0	4	131
04:00 PM	0	65	16	0	5	0	0	8	0	0	4	0	0	2	100
05:00 PM	0	67	10	0	2	0	0	2	0	0	1	0	0	2	84
06:00 PM	0	27	6	0	1	0	0	1	0	0	1	0	0	2	38
07:00 PM	0	16	4	0	2	0	0	4	0	0	0	0	0	1	27
08:00 PM	0	11	1	0	2	0	0	1	0	0	0	0	0	1	16
09:00 PM	0	12	1	0	1	0	0	0	0	0	0	0	0	0	14
10:00 PM	0	6	0	0		0	0	0	0	0	0	0	0	0	8
11:00 PM	0	3	0	0	2	0	0	0	0	0	0	0	0	0	3
Day Total	1	922	182	0	84	0	0	87	0	0	20	0	0	35	4224
Percent	0.1%	69.3%	13.7%	0%	6.3%	0%	0%	6.5%	0%	0%	1.5%	0%	0%	2.6%	1331
ADT 1331															
AM Peak	9:00 AM	10:00 AM	10:00 AM	12:00 ΔΜ	10:00 AM	12:00 ΔΜ	12:00 ΔΜ	7:00 AM	12:00 ΔΜ	12:00 AM	11:00 ΔΜ	12:00 ΔΜ	12:00 ΔΝ/	7:00 AM	10:00 A
Volume	1 3.00 AW	79	16.00 AW	0	9	0	0	7.00 AIVI	0	0	3	0	0	3	116
PM Peak	12:00 PM	3:00 PM	3:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	1:00 PM	3:00 PN
Volume	0	91	16	0 12:00 PIVI	1:00 PIVI 8	0	0 12:00 PW	3:00 PIVI 11	0 12:00 PW	0 12:00 PIVI	4:00 PIVI 4	0	0 12:00 PIVI	7 T:00 PIVI	131
omments:	0	71	10	U	U	U	0	11	U	U	7	U	U	/	131

LOCATION: EB SR 299 east of Supan Rd QC JOB #: 16124307 SPECIFIC LOCATION: **DIRECTION: WB** CITY/STATE: Shasta, CA DATE: Apr 4 2023 - Apr 6 2023 Cars & 2 Axle 2 Axle 6 3 Axle 4 Axle <5 Axl 5 Axle >6 Axl <6 Axl Not 6 Axle >6 Axl Start Time **Bikes Buses** Total **Trailers** Long Tire Single Single Double Double Double Multi Multi Classed Multi **Grand Total** 4 2639 541 1 189 1 1 238 2 0 66 0 2 81 3765 0.1% 0% 0% 6.3% 0.1% 0.1% 2.2% Percent 70.1% 14.4% 5% 0% 0% 1.8% 0% ADT 1255

Report generated on 4/11/2023 4:55 PM

Comments:



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307

DIRECTION: WB

**DATE**: Apr 4 2023 - Apr 6 2023

Start Time	Mon	<b>Tue</b> 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		4	5	8		6			6	
01:00 AM		3	1	3		2			2	
02:00 AM		3	2	7		4			4	
03:00 AM		9	3	13		8			8	
04:00 AM		10	8	8		9			9	
05:00 AM		23	30	28		27			27	
06:00 AM		33	44	42		40			40	
07:00 AM		72	71	75		73			73	
08:00 AM		86	110	107		101			101	
09:00 AM		100	98	108		102			102	
10:00 AM		100	101	116		106			106	
11:00 AM		95	96	97		96			96	
12:00 PM		87	101	89		92			92	
01:00 PM		109	95	116		107			107	
02:00 PM		94	82	93		90			90	
03:00 PM		86	95	131		104			104	
04:00 PM		87	82	100		90			90	
05:00 PM		85	88	84		86			86	
06:00 PM		47	56	38		47			47	
07:00 PM		40	21	27		29			29	
08:00 PM		19	14	16		16			16	
09:00 PM		5	12	14		10			10	
10:00 PM		7	7	8		7			7	
11:00 PM		7	1	3		4			4	
Day Total		1211	1223	1331		1256			1256	
% Weekday Average		96.4%	97.4%	106%						
% Week Average		96.4%	97.4%	106%		100%				
AM Peak		9:00 AM	8:00 AM	10:00 AM		10:00 AM			10:00 AM	
Volume		100	110	116		106			106	
PM Peak		1:00 PM	12:00 PM	3:00 PM		1:00 PM			1:00 PM	
Volume		109	101	131		107			107	

SPECIFIC LOCATION:

QC JOB #: 16124308 DIRECTION: EB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
12:00 AM	0	0	0	0	0	2	2	4	0	0	0	0	0	0	8	41-50	6
01:00 AM	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	46-55	2
02:00 AM	0	0	0	0	0	0	1	1	1	0	0	0	0	0	3	41-50	2
03:00 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	46-55	2
04:00 AM	1	0	0	0	0	1	0	5	1	1	0	0	0	0	9	46-55	6
05:00 AM	0	0	0	0	1	5	7	10	1	2	0	0	0	0	26	41-50	17
06:00 AM	0	0	0	0	0	2	15	21	7	4	1	0	0	0	50	41-50	36
07:00 AM	1	0	0	0	6	9	16	32	10	1	0	0	0	0	75	41-50	48
08:00 AM	1	0	0	0	0	1	22	33	17	4	0	0	0	0	78	41-50	55
09:00 AM	1	0	0	0	0	5	25	32	16	3	0	0	0	0	82	41-50	57
10:00 AM	4	0	0	0	0	5	26	25	6	2	0	0	0	0	68	41-50	51
11:00 AM	1	0	0	0	1	13	19	37	16	6	1	0	0	0	94	41-50	56
12:00 PM	0	0	0	0	2	9	15	27	16	3	0	0	0	0	72	46-55	43
01:00 PM	1	0	0	0	0	10	25	30	13	5	0	0	0	0	84	41-50	55
02:00 PM	3	0	0	0	0	1	15	30	25	4	0	0	0	0	78	46-55	55
03:00 PM	4	0	0	0	0	4	15	25	41	6	2	0	0	0	97	46-55	66
04:00 PM	3	0	0	0	0	1	29	65	21	4	1	1	0	0	125	41-50	94
05:00 PM	2	0	0	0	0	1	20	40	25	2	0	0	0	0	90	46-55	65
06:00 PM	2	0	0	0	0	0	16	23	24	4	0	0	0	0	69	46-55	47
07:00 PM	0	0	0	0	0	0	10	13	9	1	1	0	0	0	34	41-50	23
08:00 PM	0	0	0	0	1	2	12	13	4	0	0	0	0	0	32	41-50	25
09:00 PM	0	0	0	1	1	5	8	7	3	2	1	0	0	0	28	41-50	15
10:00 PM	0	0	0	0	0	0	2	5	1	3	0	0	0	0	11	41-50	7
11:00 PM	0	0	0	0	1	0	2	2	1	1	0	0	0	0	7	41-50	4
Day Total	24	0	0	1	13	76	302	481	261	58	7	1	0	0			
Percent	2%	0%	0%	0.1%	1.1%	6.2%	24.7%	39.3%	21.3%	4.7%	0.6%	0.1%	0%	0%	1224	41-50	783
AM Peak	10:00 AM 4	12:00 AM 0	12:00 AM 0	12:00 AM 0	7:00 AM 6	11:00 AM 13	10:00 AM 26	11:00 AM	8:00 AM 17	11:00 AM	6:00 AM 1	12:00 AM 0	12:00 AM 0	12:00 AM 0	11:00 AM 94		
Volume								37									
PM Peak Volume	3:00 PM 4	12:00 PM 0	12:00 PM 0	9:00 PM 1	12:00 PM 2	1:00 PM 10	4:00 PM 29	4:00 PM 65	3:00 PM 41	3:00 PM 6	3:00 PM 2	4:00 PM 1	12:00 PM 0	12:00 PM 0	4:00 PM 125		

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB

**DATE:** Apr 5 2023 Number Total Pace Speed Start Time in Pace 12:00 AM 41-50 01:00 AM 36-45 02:00 AM 41-50 03:00 AM 51-60 04:00 AM 41-50 05:00 AM 41-50 06:00 AM 46-55 07:00 AM 41-50 08:00 AM 41-50 09:00 AM 41-50 10:00 AM 46-55 11:00 AM 41-50 12:00 PM 41-50 01:00 PM 46-55 02:00 PM 41-50 03:00 PM 41-50 04:00 PM 41-50 05:00 PM 46-55 06:00 PM 46-55 07:00 PM 46-55 08:00 PM 41-50 09:00 PM 41-50 10:00 PM 41-50 11:00 PM 43-52 Day Total 41-50 0% 0.1% 0.2% 1% 5.4% 24% 0.9% 0.2% 0% 0% Percent 2.1% 39.5% 20.1% 6.5% **AM Peak** 5:00 AM 12:00 AM 10:00 AM 1:00 AM 7:00 AM 8:00 AM 10:00 AM 9:00 AM 10:00 AM 10:00 AM 10:00 AM 12:00 AM 12:00 AM 10:00 AM Volume PM Peak 6:00 PM 12:00 PM 12:00 PM 12:00 PM 12:00 PM 2:00 PM 12:00 PM 12:00 PM 4:00 PM 4:00 PM 4:00 PM 5:00 PM 5:00 PM 6:00 PM 6:00 PM Volume 

Comments:

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124308 **DIRECTION: EB** 

CITY/STATE:	Shasta,	CA														DATE: A	pr 6 202
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	0	0	0	0	2	6	3	0	0	0	0	0	11	46-55	9
01:00 AM	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	46-55	2
02:00 AM	0	0	0	0	0	0	4	3	0	2	0	0	0	0	9	41-50	7
03:00 AM	0	0	0	0	0	0	2	3	1	1	0	0	0	0	7	41-50	5
04:00 AM	0	0	0	0	0	2	1	3	2	0	1	0	0	0	9	46-55	5
05:00 AM	1	0	0	0	0	2	11	15	5	0	0	0	0	0	34	41-50	26
06:00 AM	0	0	0	0	1	1	14	16	13	2	0	0	0	0	47	41-50	30
07:00 AM	1	0	0	0	0	2	23	25	14	3	0	0	0	0	68	41-50	48
08:00 AM	0	0	0	0	0	1	19	39	17	5	0	0	0	0	81	41-50	58
09:00 AM	1	0	0	0	0	2	18	36	22	4	0	0	0	0	83	46-55	58
10:00 AM	3	0	0	0	0	3	11	29	22	5	2	0	0	0	75	46-55	51
11:00 AM	0	0	0	0	0	8	26	41	14	7	0	0	0	0	96	41-50	67
12:00 PM	1	0	0	0	0	7	23	35	16	6	0	0	0	0	88	41-50	58
01:00 PM	1	0	0	0	2	8	16	41	16	6	1	0	0	0	91	43-52	57
02:00 PM	0	0	0	0	0	5	19	44	27	4	0	0	0	0	99	46-55	71
03:00 PM	2	0	0	0	3	3	27	39	20	9	0	0	0	0	103	41-50	66
04:00 PM	2	0	0	0	0	7	48	40	18	6	1	1	0	0	123	41-50	88
05:00 PM	0	0	0	0	1	2	13	35	24	7	0	0	0	0	82	46-55	59
06:00 PM	0	0	0	0	0	1	14	35	19	2	0	0	0	0	71	46-55	54
07:00 PM	1	0	0	0	0	1	8	21	10	3	1	0	0	0	45	46-55	31
08:00 PM	0	0	0	0	1	5	8	14	3	0	2	0	0	0	33	41-50	22
09:00 PM	0	0	0	0	3	7	5	6	1	0	0	0	0	0	22	36-45	12
10:00 PM	0	0	0	0	0	1	5	1	4	0	0	0	0	0	11	39-48	6
11:00 PM	0	0	0	0	0	1	3	2	0	0	0	0	0	0	6	41-50	5
Day Total	13	0	0	0	11	69	320	530	272	72	8	1	0	0	1296	41-50	850
Percent	1%	0%	0%	0%	0.8%	5.3%	24.7%	40.9%	21%	5.6%	0.6%	0.1%	0%	0%		11 30	
AM Peak	10:00 AM 3	12:00 AM 0	12:00 AM 0	12:00 AM 0	6:00 AM 1	11:00 AM 8	11:00 AM 26	11:00 AM 41	9:00 AM 22	11:00 AM 7	10:00 AM 2	12:00 AM 0	12:00 AM 0	12:00 AM 0	11:00 AM 96		
Volume																	
PM Peak Volume	3:00 PM 2	12:00 PM 0	12:00 PM 0	12:00 PM 0	3:00 PM 3	1:00 PM 8	4:00 PM 48	2:00 PM 44	2:00 PM 27	3:00 PM 9	8:00 PM 2	4:00 PM 1	12:00 PM 0	12:00 PM 0	4:00 PM 123		

LOCATION: W	B SR 299	west of B	unch Gra	ss Lookou	ıt Rd											QC JOB	#: 16124308
SPECIFIC LOCA	ATION:															DI	RECTION: EB
CITY/STATE: SI	hasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Range	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 ace speed	Pace
Grand Total	64	0	1	3	37	214	927	1512	788	213	26	4	0	0	3789	41-50	2439
Percent	1.7%	0%	0%	0.1%	1%	5.6%	24.5%	39.9%	20.8%	5.6%	0.7%	0.1%	0%	0%	3789	41-30	2433
Cumulative Percent	1.7%	1.7%	1.7%	1.8%	2.8%	8.4%	32.9%	72.8%	93.6%	99.2%	99.9%	100%	100%	100%			
ADT 1263															Mea	an Speed(Avera	ntile: 52 MPH age): 47 MPH dian: 47 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB

DATE: Apr 4 2023

CITY/STATE: SI	iasta, CA													DATE:	Apr 4 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	5	0	0	1	0	0	2	0	0	0	0	0	0	8
01:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3
03:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2
04:00 AM	0	6	0	0	0	0	0	2	0	0	0	0	0	1	9
05:00 AM	0	17	1	0	3	0	0	4	0	0	1	0	0	0	26
06:00 AM	0	26	21	0	1	0	0	2	0	0	0	0	0	0	50
07:00 AM	0	44	15	0	4	0	0	11	0	0	0	0	0	1	75
08:00 AM	0	57	10	0	6	0	0	3	1	0	0	0	0	1	78
09:00 AM	0	55	14	0	7	0	0	5	0	0	0	0	0	1	82
10:00 AM	0	36	16	0	3	0	0	9	0	0	0	0	0	4	68
11:00 AM	0	62	16	0	8	0	0	7	0	0	0	0	0	1	94
12:00 PM	0	48	6	0	7	0	0	10	0	0	1	0	0	0	72
01:00 PM	0	61	11	0	3	0	0	7	1	0	0	0	0	1	84
02:00 PM	0	52	9	0	7	0	0	5	0	0	2	0	0	3	78
03:00 PM	0	70	14	1	1	0	0	3	1	0	3	0	0	4	97
04:00 PM	0	98	18	0	1	0	0	5	0	0	0	0	0	3	125
05:00 PM	0	73	11	0	1	0	0	3	0	0	0	0	0	2	90
06:00 PM	0	53	9	0	2	0	0	3	0	0	0	0	0	2	69
07:00 PM	0	29	4	0	0	0	0	1	0	0	0	0	0	0	34
08:00 PM	0	25	5	0	1	0	0	1	0	0	0	0	0	0	32
09:00 PM	0	23	1	0	1	0	0	3	0	0	0	0	0	0	28
10:00 PM	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
11:00 PM	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Day Total	0	863	181	1	59	0	0	86	3	0	7	0	0	24	1224
Percent	0%	70.5%	14.8%	0.1%	4.8%	0%	0%	7%	0.2%	0%	0.6%	0%	0%	2%	1224
ADT 1224															
AM Peak	12:00 AM	11:00 AM	6:00 AM	12:00 AM	11:00 AM	12:00 AM	12:00 AM	7:00 AM	8:00 AM	12:00 AM	5:00 AM	12:00 AM	12:00 AM	10:00 AM	11:00 AM
Volume	0	62	21	0	8	0	0	11	1	0	1	0	0	4	94
PM Peak	12:00 PM	4:00 PM	4:00 PM	3:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM	3:00 PM	4:00 PM
Volume	0	98	18	1	7	0	0	10	1	0	3	0	0	4	125
omments:															

SPECIFIC LOCATION:

QC JOB #: 16124308 DIRECTION: EB

DATE: Apr 5 2023

CITY/STATE: Sha	asta, CA	0 0	2.4.1		2.4.1.0	2.4.1			I			C 1 1			Apr 5 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
		Trailers	Long		Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	
12:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
01:00 AM	0	2	0	0	0	0	0	2	0	0	0	0	0	0	4
02:00 AM	0	4	0	0	1	0	0	1	0	0	0	0	0	0	6
03:00 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
04:00 AM	0	6	1	0	1	0	0	0	0	0	0	0	0	0	8
05:00 AM	0	13	3	0	0	0	0	3	0	0	0	0	0	2	21
06:00 AM	0	21	14	0	6	0	0	6	0	0	1	0	0	1	49
07:00 AM	0	36	17	0	4	0	0	4	0	0	2	0	0	2	65
08:00 AM	0	46	11	0	9	0	0	8	0	0	0	0	0	1	75
09:00 AM	0	55	11	0	8	0	0	7	0	0	1	0	0	2	84
10:00 AM	0	66	12	0	6	1	0	11	0	0	0	0	0	1	97
11:00 AM	0	48	12	0	3	1	0	5	0	0	1	0	0	0	70
12:00 PM	0	50	10	0	4	0	0	5	0	0	1	0	0	0	70
01:00 PM	0	64	8	0	7	0	0	4	0	0	0	0	0	1	84
02:00 PM	0	74	8	0	3	0	0	5	0	0	0	0	0	0	90
03:00 PM	0	74	18	0	5	0	0	4	0	0	0	0	0	2	103
04:00 PM	0	98	20	0	2	0	0	8	0	0	2	0	0	3	133
05:00 PM	0	83	13	0	3	0	0	1	0	0	1	0	0	3	104
06:00 PM	0	53	8	0	2	0	0	2	0	0	0	0	0	5	70
07:00 PM	0	30	3	0	1	0	0	0	0	0	0	0	0	2	36
08:00 PM	0	30	3	0	0	0	0	3	0	0	0	0	0	0	36
09:00 PM	1	19	3	0	0	0	0	2	0	0	0	0	0	1	26
10:00 PM	0	20	1	0	0	0	0	0	0	0	0	0	0	0	21
11:00 PM	0	8	2	0	0	0	0	1	0	0	0	0	0	1	12
Day Total	1	903	179	0	66	2	0	82	0	0	9	0	0	27	1269
Percent	0.1%	71.2%	14.1%	0%	5.2%	0.2%	0%	6.5%	0%	0%	0.7%	0%	0%	2.1%	1203
ADT 1269															
AM Peak	12:00 AM		7:00 AM	12:00 AM	8:00 AM	10:00 AM					7:00 AM		12:00 AM		10:00 A
Volume	0	66	17	0	9	1	0	11	0	0	2	0	0	2	97
PM Peak	9:00 PM	4:00 PM	4:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	6:00 PM	4:00 PI
Volume	1	98	20	0	7	0	0	8	0	0	2	0	0	5	133

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB

DATE: Apr 6 2023

511 1/ 517 (TE. 511	iasta, CA														Apr 6 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
		Trailers	Long		Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	
12:00 AM	0	10	0	0	1	0	0	0	0	0	0	0	0	0	11
01:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00 AM	0	5	2	0	1	0	0	1	0	0	0	0	0	0	9
03:00 AM	0	4	1	0	1	0	0	1	0	0	0	0	0	0	7
04:00 AM	0	5	2	0	0	0	0	2	0	0	0	0	0	0	9
05:00 AM	0	16	3	0	4	0	0	8	0	0	2	0	0	1	34
06:00 AM	0	22	16	0	4	0	0	5	0	0	0	0	0	0	47
07:00 AM	0	46	10	0	4	0	0	7	0	0	0	0	0	1	68
MA 00:80	0	55	12	0	3	0	0	11	0	0	0	0	0	0	81
09:00 AM	0	57	7	0	8	0	0	10	0	0	0	0	0	1	83
10:00 AM	0	50	6	0	6	0	0	10	0	0	0	0	0	3	75
11:00 AM	0	68	14	0	5	0	0	8	0	0	1	0	0	0	96
12:00 PM	0	59	12	0	7	0	0	8	1	0	0	0	0	1	88
01:00 PM	1	65	12	0	8	0	0	4	0	0	0	0	0	1	91
02:00 PM	0	84	9	1	4	0	0	0	0	0	1	0	0	0	99
03:00 PM	0	80	15	0	4	0	0	2	0	0	0	0	0	2	103
04:00 PM	0	96	16	0	3	0	0	6	0	0	0	0	0	2	123
05:00 PM	0	65	13	0	1	0	0	3	0	0	0	0	0	0	82
06:00 PM	0	61	7	0	2	0	0	1	0	0	0	0	0	0	71
07:00 PM	0	36	4	0	2	0	0	2	0	0	0	0	0	1	45
08:00 PM	1	28	2	0	2	0	0	0	0	0	0	0	0	0	33
09:00 PM	0	17	4	0	1	0	0	0	0	0	0	0	0	0	22
10:00 PM	0	7	3	0	0	0	0	1	0	0	0	0	0	0	11
11:00 PM	0	5	0	0	1	0	0	0	0	0	0	0	0	0	6
Day Total	2	943	170	1	72	0	0	90	1	0	4	0	0	13	1296
Percent	0.2%	72.8%	13.1%	0.1%	5.6%	0%	0%	6.9%	0.1%	0%	0.3%	0%	0%	1%	1290
ADT															
1296															
AM Peak	12:00 AM	11:00 AM	6:00 AM	12:00 AM	9:00 AM	12:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	5:00 AM	12:00 AM	12:00 AM	10:00 AM	11:00 A
Volume	0	68	16	0	8	0	0	11	0	0	2	0	0	3	96
PM Peak	1:00 PM	4:00 PM	4:00 PM	2:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	3:00 PM	4:00 P
Volume	1	96	16	1	8	0	0	8	1	0	1	0	0	2	123

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd QC JOB #: 16124308 SPECIFIC LOCATION: **DIRECTION: EB** CITY/STATE: Shasta, CA DATE: Apr 4 2023 - Apr 6 2023 Cars & 2 Axle 2 Axle 6 4 Axle <5 Axl 5 Axle >6 Axl <6 Axl Not 3 Axle 6 Axle >6 Axl Start Time **Bikes Buses** Total Trailers Long Tire Single Single Double Double Double Multi Multi Classed Multi **Grand Total** 3 2709 530 2 197 2 0 258 4 0 20 0 0 64 3789 0.1% 0.1% 6.8% 0.1% 0.5% 0% 0% Percent 71.5% 14% 0.1% 5.2% 0% 0% 1.7%

Comments:

ADT 1263

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION:

DATE: Apr 4 2023 - Apr 6 2023

QC JOB #: 16124308 DIRECTION: EB

CITY/STATE: Shasta, CA

Start Time	Mon	Tue 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		8	2	11		7		7	
01:00 AM		2	4	2		3		3	
02:00 AM		3	6	9		6		6	
03:00 AM		2	3	7		4		4	
04:00 AM		9	8	9		9		9	
05:00 AM		26	21	34		27		27	DESCRIPTION OF THE PERSON OF T
06:00 AM		50	49	47		49		49	
07:00 AM		75	65	68		69		69	
08:00 AM		78	75	81		78		78	
09:00 AM		82	84	83		83		83	
10:00 AM		68	97	75		80		80	
11:00 AM		94	70	96		87		87	
12:00 PM		72	70	88		77		77	
01:00 PM		84	84	91		86		86	
02:00 PM		78	90	99		89		89	
03:00 PM		97	103	103		101		101	
04:00 PM		125	133	123		127		127	
05:00 PM		90	104	82		92		92	
06:00 PM		69	70	71		70		70	
07:00 PM		34	36	45		38		38	
08:00 PM		32	36	33		34		34	
09:00 PM		28	26	22		25		25	
10:00 PM		11	21	11		14		14	
11:00 PM		7	12	6		8		8	
Day Total		1224	1269	1296		1263		1263	
% Weekday Average		96.9%	100.5%	102.6%					
% Week Average		96.9%	100.5%	102.6%		100%			
AM Peak		11:00 AM	10:00 AM	11:00 AM		11:00 AM		11:00 AM	
Volume		94	97	96		87		87	
PM Peak		4:00 PM	4:00 PM	4:00 PM		4:00 PM		4:00 PM	
Volume		125	133	123		127		127	

SPECIFIC LOCATION:

CITY/STATE: Shasta, CA

DIRECTION: EB, WB DATE: Apr 4 2023

QC JOB #: 16124308

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
ture rinic	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	r dec speed	in Pac
12:00 AM	0	0	0	0	0	3	2	5	0	0	0	0	0	0	10	41-50	7
01:00 AM	0	0	0	0	0	0	0	2	3	0	0	0	0	0	5	46-55	5
02:00 AM	0	0	0	0	0	2	4	2	1	0	0	0	0	0	9	41-50	6
03:00 AM	1	0	0	0	0	0	0	3	4	1	0	0	0	0	9	46-55	7
04:00 AM	1	0	0	0	2	2	1	7	2	2	1	0	0	0	18	46-55	9
05:00 AM	0	0	2	0	1	6	13	22	5	4	0	0	0	0	53	41-50	35
06:00 AM	1	0	0	0	0	3	24	37	11	8	1	0	0	0	85	41-50	61
07:00 AM	1	0	0	0	6	10	24	66	32	3	1	1	0	0	144	46-55	98
MA 00:80	1	0	0	0	0	2	39	75	45	9	0	0	0	0	171	46-55	120
09:00 AM	2	0	0	0	0	10	46	74	39	6	1	1	0	0	179	41-50	120
10:00 AM	7	0	0	0	0	11	41	67	36	13	2	0	0	0	177	41-50	108
11:00 AM	2	0	0	0	1	15	31	79	43	14	1	0	0	0	186	46-55	122
12:00 PM	1	0	0	1	3	13	34	61	41	12	3	1	0	0	170	46-55	102
01:00 PM	1	0	0	0	0	11	41	77	38	9	2	0	0	0	179	41-50	118
02:00 PM	3	0	0	0	1	12	26	66	64	12	1	0	0	0	185	46-55	130
03:00 PM	4	0	0	0	0	4	26	58	66	20	2	0	0	0	180	46-55	124
04:00 PM	4	0	0	1	3	1	41	111	46	9	1	1	0	0	218	46-55	157
05:00 PM	3	0	0	0	0	3	33	67	43	10	3	0	0	0	162	46-55	110
06:00 PM	3	0	0	0	3	1	25	35	43	6	1	0	0	0	117	46-55	78
07:00 PM	0	0	0	0	0	1	15	29	23	4	4	0	0	0	76	46-55	52
08:00 PM	0	0	0	0	1	5	15	19	5	0	0	0	0	0	45	41-50	34
09:00 PM	0	0	0	1	1	7	10	7	4	3	1	0	0	0	34	36-45	17
10:00 PM	0	0	0	0	0	0	5	6	2	4	0	0	0	0	17	41-50	11
11:00 PM	0	0	0	1	1	0	3	5	1	2	0	0	0	0	13	41-50	8
Day Total	35	0	2	4	_ 23	122	499	980	597	151	25	4	0	0	2442	46.55	4577
Percent	1.4%	0%	0.1%	0.2%	0.9%	5%	20.4%	40.1%	24.4%	6.2%	1%	0.2%	0%	0%	2442	46-55	1577
AM Peak Volume	10:00 AM 7	12:00 AM 0	5:00 AM 2	12:00 AM 0	7:00 AM 6	11:00 AM 15	9:00 AM 46	11:00 AM 79	8:00 AM 45	11:00 AM 14	10:00 AM 2	7:00 AM 1	12:00 AM 0	12:00 AM 0	11:00 AM 186		
PM Peak Volume	3:00 PM 4	12:00 PM 0	12:00 PM 0	12:00 PM 1	12:00 PM 3	12:00 PM 13	1:00 PM 41	4:00 PM 111	3:00 PM 66	3:00 PM 20	7:00 PM 4	12:00 PM 1	12:00 PM 0	12:00 PM 0	4:00 PM 218		

SPECIFIC LOCATION:

QC JOB #: 16124308 **DIRECTION:** EB, WB

CITY/STATE:	Shasta,	CA														DATE: A	or 5 2023
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
12:00 AM	0	0	0	0	0	0	3	4	0	0	0	0	0	0	7	41-50	7
01:00 AM	0	0	0	1	0	1	2	1	0	0	0	0	0	0	5	41-50	3
02:00 AM	0	0	0	0	0	1	2	4	0	2	0	0	0	0	9	41-50	6
03:00 AM	0	0	0	0	0	1	0	1	2	2	0	0	0	0	6	51-60	4
04:00 AM	0	0	0	0	0	1	3	8	3	0	0	0	0	0	15	41-50	11
05:00 AM	2	0	0	2	0	1	12	14	15	5	0	1	0	0	52	46-55	29
06:00 AM	4	0	0	0	0	4	11	42	25	11	1	0	0	0	98	46-55	67
07:00 AM	5	0	0	1	7	8	21	39	34	14	2	1	1	0	133	46-55	73
08:00 AM	2	0	0	0	1	8	35	83	42	17	2	0	0	0	190	46-55	125
09:00 AM	3	0	1	0	1	3	29	77	50	8	2	2	0	0	176	46-55	127
10:00 AM	4	0	1	0	0	4	35	82	59	15	4	0	0	0	204	46-55	141
11:00 AM	3	0	0	0	1	15	42	56	33	15	4	1	0	0	170	41-50	98
12:00 PM	1	0	0	0	4	6	36	59	44	19	2	0	0	0	171	46-55	103
01:00 PM	4	0	0	0	1	2	40	87	35	15	1	0	0	0	185	41-50	127
02:00 PM	2	0	0	0	1	11	42	71	35	4	2	0	0	0	168	41-50	113
03:00 PM	3	0	0	0	0	9	54	71	48	17	1	0	1	0	204	41-50	125
04:00 PM	5	0	0	0	2	8	47	88	43	13	1	0	0	0	207	41-50	135
05:00 PM	5	0	0	0	0	5	39	68	62	16	1	0	0	0	196	46-55	130
06:00 PM	6	0	0	0	0	1	10	58	28	11	4	2	0	0	120	46-55	86
07:00 PM	4	0	0	0	0	3	9	23	15	4	1	0	0	0	59	46-55	38
08:00 PM	0	0	0	0	2	5	12	22	5	1	0	0	0	0	47	41-50	34
09:00 PM	2	0	0	0	1	9	8	11	8	0	0	0	0	0	39	43-52	19
10:00 PM	0	0	0	0	0	3	8	13	5	0	0	0	0	0	29	41-50	21
11:00 PM	1	0	0	0	2	2	3	5	2	1	0	0	0	0	16	41-50	8
Day Total	56	0	2	4	23	111	503	987	593	190	28	7	2	0	2506	46-55	1580
Percent	2.2%	0%	0.1%	0.2%	0.9%	4.4%	20.1%	39.4%	23.7%	7.6%	1.1%	0.3%	0.1%	0%	2300	40-33	1380
AM Peak		12:00 AM	9:00 AM	5:00 AM		11:00 AM		8:00 AM			10:00 AM	9:00 AM		12:00 AM	10:00 AM		
Volume	5	0	1	2	7	15	42	83	59	17	4	2	1	0	204		
PM Peak Volume	6:00 PM 6	12:00 PM 0	12:00 PM 0	12:00 PM 0	12:00 PM 4	2:00 PM 11	3:00 PM 54	4:00 PM 88	5:00 PM 62	12:00 PM 19	6:00 PM 4	6:00 PM 2	3:00 PM 1	12:00 PM 0	4:00 PM 207		

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124308 **DIRECTION:** EB, WB DΔTF: Δnr 6 2023

CITY/STATE:	Shasta,	CA														DATE: A	pr 6 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numb
Start Tille	15	20	25	30	35	40	45	50	55	60	65	70	75	999	TOLAT	Pace Speed	in Pa
12:00 AM	0	0	0	0	0	3	3	8	3	0	0	0	0	0	17	41-50	11
01:00 AM	0	0	0	0	0	0	2	2	1	0	0	0	0	0	5	41-50	4
02:00 AM	0	0	0	0	0	0	5	6	3	2	0	0	0	0	16	41-50	11
03:00 AM	0	0	0	0	0	0	6	7	3	5	2	0	0	0	23	41-50	13
04:00 AM	1	0	0	0	0	4	1	4	2	0	2	0	0	0	14	46-55	6
05:00 AM	1	0	0	0	0	2	14	27	13	4	2	1	0	0	64	41-50	41
06:00 AM	1	0	0	0	1	1	21	25	29	17	2	0	0	0	97	46-55	54
07:00 AM	1	0	0	0	0	2	27	51	34	15	6	0	0	0	136	46-55	85
08:00 AM	2	0	0	0	0	4	33	85	53	15	4	0	0	0	196	46-55	138
09:00 AM	5	0	0	0	0	5	33	74	56	16	1	0	0	0	190	46-55	130
10:00 AM	6	0	0	0	2	5	28	72	51	18	4	0	0	0	186	46-55	123
11:00 AM	4	0	0	0	0	9	43	75	43	17	1	0	0	0	192	41-50	118
12:00 PM	5	0	0	0	0	9	39	77	41	13	1	0	0	0	185	46-55	118
01:00 PM	2	0	0	0	2	10	38	84	43	18	2	0	0	0	199	46-55	127
02:00 PM	4	0	0	1	0	9	36	80	58	9	1	0	0	0	198	46-55	138
03:00 PM	3	0	0	0	3	13	41	92	59	23	2	0	0	0	236	46-55	151
04:00 PM	6	0	0	0	0	12	63	82	39	14	4	2	0	0	222	41-50	145
05:00 PM	1	0	0	0	1	4	22	70	47	11	6	0	0	0	162	46-55	117
06:00 PM	1	0	0	0	0	2	16	52	30	9	1	0	1	0	112	46-55	82
07:00 PM	2	0	0	0	1	3	14	26	17	5	1	0	0	0	69	46-55	43
08:00 PM	1	0	0	0	1	6	13	18	5	0	3	1	0	0	48	41-50	31
09:00 PM	1	0	0	0	3	11	12	8	3	1	0	0	0	0	39	36-45	23
10:00 PM	0	0	0	0	0	1	7	2	6	0	0	0	0	0	16	41-50	9
11:00 PM	0	0	0	0	1	1	3	3	1	0	0	0	0	0	9	41-50	6
Day Total	47	0	0	1	15	116	520	1030	640	212	45	4	1	0	2631	46-55	1670
Percent	1.8%	0%	0%	0%	0.6%	4.4%	19.8%	39.1%	24.3%	8.1%	1.7%	0.2%	0%	0%	2031	40 33	107
AM Peak Volume	10:00 AM 6	12:00 AM 0	12:00 AM 0	12:00 AM 0	10:00 AM 2	11:00 AM 9	11:00 AM 43	8:00 AM 85	9:00 AM 56	10:00 AM 18	7:00 AM 6	5:00 AM 1	12:00 AM 0	12:00 AM 0	8:00 AM 196		
PM Peak Volume	4:00 PM 6	12:00 PM 0	12:00 PM 0	2:00 PM 1	3:00 PM 3	3:00 PM 13	4:00 PM 63	3:00 PM 92	3:00 PM 59	3:00 PM 23	5:00 PM 6	4:00 PM 2	6:00 PM 1	12:00 PM 0	3:00 PM 236		

#### SUMMARY - Tube Count - Speed Data

LOCATION: WI	3 SR 299	west of B	unch Gra	ss Lookou	ıt Rd											QC JOB	#: 16124308
SPECIFIC LOCA	TION:															DIRECT	ION: EB, WB
CITY/STATE: Sh	nasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Name	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 ace speed	Pace
Grand Total	138	0	4	9	61	349	1522	2997	1830	553	98	15	3	0	7579	46-55	4827
Percent	1.8%	0%	0.1%	0.1%	0.8%	4.6%	20.1%	39.5%	24.1%	7.3%	1.3%	0.2%	0%	0%	7379	40-33	4827
Cumulative Percent	1.8%	1.8%	1.9%	2%	2.8%	7.4%	27.5%	67%	91.2%	98.5%	99.8%	100%	100%	100%			
ADT 2526	_														Mea	an Speed(Avera	ntile: 53 MPH age): 47 MPH dian: 47 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB, WB

**DATE:** Apr 4 2023

CITY/STATE: Sh	iasta, CA													DATE:	Apr 4 2023
Chart Times	Dilege	Cars &	2 Axle	Dueses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
Start Time	Bikes	Trailers	Long	Buses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 AM	0	7	0	0	1	0	0	2	0	0	0	0	0	0	10
01:00 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
02:00 AM	0	5	1	0	1	0	0	2	0	0	0	0	0	0	9
03:00 AM	0	6	1	0	1	0	0	0	0	0	0	0	0	1	9
04:00 AM	0	10	3	0	1	0	0	2	0	0	1	0	0	1	18
05:00 AM	0	34	6	0	3	1	0	7	0	0	2	0	0	0	53
06:00 AM	0	50	27	0	2	0	0	5	0	0	0	0	0	1	85
07:00 AM	0	100	24	0	4	0	0	14	1	0	0	0	0	1	144
08:00 AM	0	119	31	0	7	0	0	12	1	0	0	0	0	1	171
09:00 AM	0	121	32	0	11	1	0	10	0	0	2	0	0	2	179
10:00 AM	0	106	36	0	7	0	0	17	0	0	4	0	0	7	177
11:00 AM	0	121	35	0	15	0	0	11	0	0	2	0	0	2	186
12:00 PM	0	112	25	0	13	0	0	16	0	0	4	0	0	0	170
01:00 PM	0	123	27	0	10	0	0	15	1	0	2	0	0	1	179
02:00 PM	0	122	31	0	13	1	0	13	0	0	2	0	0	3	185
03:00 PM	0	126	36	1	5	0	0	4	1	0	3	0	0	4	180
04:00 PM	0	162	31	0	10	0	0	10	0	0	1	0	0	4	218
05:00 PM	0	134	17	0	1	0	0	5	0	0	2	0	0	3	162
06:00 PM	0	92	14	0	3	0	0	4	0	0	1	0	0	3	117
07:00 PM	0	57	14	0	4	0	0	1	0	0	0	0	0	0	76
08:00 PM	0	36	5	0	1	0	0	3	0	0	0	0	0	0	45
09:00 PM	0	28	1	0	1	0	0	4	0	0	0	0	0	0	34
10:00 PM	0	14	2	0	0	0	0	1	0	0	0	0	0	0	17
11:00 PM	0	9	0	0	1	0	0	1	0	0	2	0	0	0	13
Day Total	0	1699	399	1	115	3	0	159	4	0	28	0	0	34	2442
Percent	0%	69.6%	16.3%	0%	4.7%	0.1%	0%	6.5%	0.2%	0%	1.1%	0%	0%	1.4%	2442
ADT															
2442															
															1
AM Peak	12:00 AM	9:00 AM	10:00 AM	12:00 AM	11:00 AM	5:00 AM	12:00 AM	10:00 AM	7:00 AM	12:00 AM	10:00 AM	12:00 AM		10:00 AM	11:00 A
Volume	0	121	36	0	15	1	0	17	1	0	4	0	0	7	186
PM Peak	12:00 PM	4:00 PM	3:00 PM	3:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM	4:00 PN
Volume	0	162	36	1	13	1	0	16	1	0	4	0	0	4	218
omments:															

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB, WB

**DATE:** Apr 5 2023

Volume         0         136         40         0         13         1         0         15         0         0         7         0         0         5         204           PM Peak Volume         9:00 PM         4:00 PM         12:00 PM	CITY/STATE: Sha	asta, CA														Apr 5 2023
12:00 AM	Start Time	Rikes	Cars &	2 Axle	Ruses	2 Axle 6	3 Axle		<5 Axl	5 Axle		<6 Axl	6 Axle	>6 Axl	Not	Total
01:00 AM	Start Time	DIKCS	Trailers	Long	Duscs	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
02-00 AM		0	5	1	0	1	0	0	0	0	0	0	0	0	0	7
03:00 AM	01:00 AM	0	2	0	0	0	0	0	3	0	0	0	0	0	0	5
M-90 MM	02:00 AM	0	4	0	0	1	0	0	3	0	0	1	0	0	0	9
05:00 AM		0	5	1	0	0	0	0	0	0	0	0	0	0	0	6
06:00 AM		0	9	4	0	1	0	0	1	0	0	0	0	0	0	
07:00 AM	05:00 AM	0	31	8	0	0	1	0	8	0	0	2	0	0	2	52
08:00 AM	06:00 AM	0		27	0	7	0	0	8	0	0		0	0	4	98
09:00 AM	07:00 AM	0	75	40	0	5	0	0	6	0	0	2	0	0	5	133
10:00 AM	08:00 AM	0	122	40	0	10	0	0	13	0	0	3	0	0	2	190
11:00 AM	09:00 AM	0			0	10	1	0		0	0	4	0	0	3	
12:00 PM	10:00 AM	0	136	30	0	13	1	0	13	0	0	7	0	0	4	204
01:00 PM	11:00 AM	0	115	24	0	7	1	0	15	0	0	5	0	0	3	170
02:00 PM	12:00 PM	0	121	26	0	9	0	0	12	0	0	2	0	0	1	171
03:00 PM	01:00 PM	0	125	26	0	16	0	0	14	0	0	0	0	0	4	185
04:00 PM	02:00 PM	0	128	20	0	5	0	0	13	0	0	0	0	0	2	168
05:00 PM	03:00 PM	0	150	34	0	8	0	0	8	0	0	1	0	0	3	204
06:00 PM	04:00 PM	0	157	24	0	8	0	0	11	0	0	2	0	0	5	207
07:00 PM	05:00 PM	0	151	24	0	7	0	0	8	0	0	1	0	0	5	196
08:00 PM	06:00 PM	0	86	22	0	2	0	0	4	0	0	0	0	0	6	120
09:00 PM 10:00 PM 10:00 PM 10:00 PM 0         1 26         4 2 2 3 4 5 6 6 8.9%         4 3 2 3 3 4 3 4 3 4 3 3 4 3 4 3 4 3 4 3	07:00 PM	0	43	9	0	1	0	0	1	0	0	1	0	0	4	59
10:00 PM	08:00 PM	0	38	4	0	0	0	0	5	0	0	0	0	0	0	47
11:00 PM   0	09:00 PM	1	26	4	0	1	0	0	3	0	0	2	0	0	2	39
Day Total Percent         1 1727   405   68.9%         0 113   4.5%         4.5%         0.2%         0%         166   0   0   0   0   0   0   0   0   0	10:00 PM	0	26	2	0	0	0	0	1	0	0	0	0	0	0	29
ADT 2506  AM Peak Volume 0 136 40 0 16.2% 0 16.2% 0 16.2% 0 16.0 0 0 14 0 0 0 2 0 0 0 0 6 2.2%  AM Peak Volume 1 157 34 0 16.20 PM 12:00 PM 10.00 P	11:00 PM	0	10	2	0	1	0	0	2	0	0	0	0	0	1	16
ADT 2506  AM Peak Volume 0 136 40 0 16 00 16 0 0 14 0 0 0 2 0 0 0 0 6 207	Day Total	1	1727	405	0	113	4	0	166	0	0	34	0	0	56	2506
2506	Percent	0%	68.9%	16.2%	0%	4.5%	0.2%	0%	6.6%	0%	0%	1.4%	0%	0%	2.2%	2300
2506																
AM Peak Volume 0 136 40 0 13 12:00 PM 2:00 PM 2:00 PM 12:00 PM 12:																
Volume         0         136         40         0         13         1         0         15         0         0         7         0         0         5         204           PM Peak Volume         9:00 PM         4:00 PM         12:00 PM	2506															
Volume         0         136         40         0         13         1         0         15         0         0         7         0         0         5         204           PM Peak Volume         9:00 PM         4:00 PM         12:00 PM																
Volume         0         136         40         0         13         1         0         15         0         0         7         0         0         5         204           PM Peak Volume         9:00 PM         4:00 PM         12:00 PM																
PM Peak Volume 9:00 PM 4:00 PM 3:00 PM 12:00 PM 1:00 PM 1:00 PM 12:00 PM 1:00							5:00 AM					10:00 AM				10:00 Af
Volume         1         157         34         0         16         0         0         14         0         0         2         0         0         6         207	Volume															
	PM Peak	9:00 PM	4:00 PM	3:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	6:00 PM	4:00 PM				
mments:	Volume	1	157	34	0	16	0	0	14	0	0	2	0	0	6	207
	omments:															

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB, WB

**DATE:** Apr 6 2023

CITY/STATE: SI	iasta, CA													DATE:	Apr 6 202.
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	14	1	0	1	0	0	1	0	0	0	0	0	0	17
01:00 AM	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
02:00 AM	0	8	3	0	2	0	0	3	0	0	0	0	0	0	16
03:00 AM	0	10	6	0	4	0	0	3	0	0	0	0	0	0	23
04:00 AM	0	8	2	0	0	0	0	3	0	0	0	0	0	1	14
05:00 AM	0	35	9	0	6	0	0	10	0	0	3	0	0	1	64
06:00 AM	0	46	28	0	10	0	0	12	0	0	0	0	0	1	97
07:00 AM	0	89	26	0	8	0	0	12	0	0	0	0	0	1	136
08:00 AM	0	125	38	0	12	0	0	19	0	0	0	0	0	2	196
09:00 AM	0	129	23	0	15	0	0	17	0	0	1	0	0	5	190
10:00 AM	0	126	23	0	13	0	0	16	0	0	2	0	0	6	186
11:00 AM	0	138	23	0	14	0	0	10	0	0	3	0	0	4	192
12:00 PM	0	127	22	0	13	0	0	16	1	0	1	0	0	5	185
01:00 PM	1	137	29	0	12	0	0	16	0	0	2	0	0	2	199
02:00 PM	0	155	24	1	10	0	0	2	0	0	2	0	0	4	198
03:00 PM	0	167	39	0	11	0	0	13	0	0	3	0	0	3	236
04:00 PM	0	160	33	1	5	0	0	13	0	0	4	0	0	6	222
05:00 PM	0	131	21	0	3	0	0	5	0	0	1	0	0	1	162
06:00 PM	0	85	18	0	3	0	0	4	0	0	1	0	0	1	112
07:00 PM	0	52	6	0	4	0	0	5	0	0	0	0	0	2	69
08:00 PM	1	39	2	0	3	0	0	2	0	0	0	0	0	1	48
09:00 PM	0	30	5	0	2	0	0	1	0	0	0	0	0	1	39
10:00 PM	0	10	4	0	1	0	0	1	0	0	0	0	0	0	16
11:00 PM	0	8	0	0	1	0	0	0	0	0	0	0	0	0	9
Day Total	2	1833	386	2	153	0	0	184	1	0	23	0	0	47	2631
Percent	0.1%	69.7%	14.7%	0.1%	5.8%	0%	0%	7%	0%	0%	0.9%	0%	0%	1.8%	2031
ADT 2631															
AM Peak	12:00 AM	11:00 AM	8:00 AM	12:00 AM	9:00 AM	12:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	5:00 AM	12:00 AM	12:00 AM	10:00 AM	8:00 AN
Volume	0	138	38	0	15	0	0	19	0	0	3	0	0	6	196
PM Peak	1:00 PM	3:00 PM	3:00 PM	2:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	4:00 PM	3:00 PN
Volume	1	167	39	1	13	0	0	16	1	0	4	0	0	6	236
omments:															
														11	

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd

SPECIFIC LOCATION:

CITY/STATE: Shasta, CA

OCCUPATION: UR SR 299 west of Bunch Grass Lookout Rd

DIRECTION: EB, WB

DATE: Apr 4 2023 - Apr 6 2023

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
Grand Total	3	5259	1190	3	381	7	0	509	5	0	85	0	0	137	7579
Percent	0%	69.4%	15.7%	0%	5%	0.1%	0%	6.7%	0.1%	0%	1.1%	0%	0%	1.8%	7373
ADT 2526									<b>b</b>						
Comments:															

Report generated on 4/11/2023 4:55 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB, WB

DATE: Apr 4 2023 - Apr 6 2023

Start Time	Mon	<b>Tue</b> 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		10	7	17		11			11	
01:00 AM		5	5	5		5			5	
02:00 AM		9	9	16		11			11	
03:00 AM		9	6	23		13			13	
04:00 AM		18	15	14		16			16	
05:00 AM		53	52	64		56			56	
06:00 AM		85	98	97		93			93	
07:00 AM		144	133	136		138			138	
08:00 AM		171	190	196		186			186	
09:00 AM		179	176	190		182			182	
10:00 AM		177	204	186		189			189	11
11:00 AM		186	170	192		183			183	
12:00 PM		170	171	185		175	100 A		175	
01:00 PM		179	185	199		188			188	
02:00 PM		185	168	198		184			184	
03:00 PM		180	204	236		207			207	
04:00 PM		218	207	222		216			216	
05:00 PM		162	196	162		173			173	
06:00 PM		117	120	112		116			116	
07:00 PM		76	59	69		68			68	
08:00 PM		45	47	48		47			47	
09:00 PM		34	39	39		37			37	
10:00 PM		17	29	16		21			21	
11:00 PM		13	16	9		13			13	
Day Total		2442	2506	2631		2528			2528	
% Weekday Average		96.6%	99.1%	104.1%						
% Week Average		96.6%	99.1%	104.1%		100%				
AM Peak		11:00 AM	10:00 AM	8:00 AM		10:00 AM			10:00 AM	
Volume		186	204	196		189			189	
PM Peak		4:00 PM	4:00 PM	3:00 PM		4:00 PM			4:00 PM	
Volume		218	207	236		216			216	

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: WB DATE: Apr 4 2023

Number Total Pace Speed Start Time in Pace 12:00 AM 31-40 01:00 AM 46-55 02:00 AM 36-45 03:00 AM 46-55 04:00 AM 31-40 05:00 AM 41-50 06:00 AM 41-50 07:00 AM 46-55 08:00 AM 46-55 09:00 AM 46-55 10:00 AM 46-55 11:00 AM 46-55 12:00 PM 46-55 01:00 PM 46-55 02:00 PM 46-55 03:00 PM 46-55 04:00 PM 46-55 05:00 PM 46-55 06:00 PM 46-55 07:00 PM 46-55 08:00 PM 41-50 09:00 PM 36-45 10:00 PM 41-50 11:00 PM 41-50 Day Total 46-55 0.9% 0% 0.2% 0.2% 0.8% 1.5% 0.2% 0% 0% Percent 3.8% 16.2% 41% 27.6% 7.6% 10:00 AM 12:00 AM **AM Peak** 5:00 AM 12:00 AM 4:00 AM 10:00 AM 9:00 AM 8:00 AM 10:00 AM 10:00 AM 10:00 AM 7:00 AM 12:00 AM 12:00 AM 10:00 AM Volume PM Peak 12:00 PM 12:00 PM 12:00 PM 12:00 PM 4:00 PM 2:00 PM 12:00 PM 12:00 PM 12:00 PM 12:00 PM 2:00 PM 2:00 PM 12:00 PM 1:00 PM 3:00 PM Volume Comments:

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: WB

**DATE:** Apr 5 2023 Number Total Pace Speed Start Time in Pace 12:00 AM 41-50 01:00 AM 41-50 02:00 AM 41-50 03:00 AM 46-55 04:00 AM 46-55 05:00 AM 46-55 06:00 AM 46-55 07:00 AM 46-55 08:00 AM 46-55 09:00 AM 46-55 10:00 AM 46-55 11:00 AM 46-55 12:00 PM 46-55 01:00 PM 41-50 02:00 PM 46-55 03:00 PM 46-55 04:00 PM 46-55 05:00 PM 46-55 06:00 PM 46-55 07:00 PM 46-55 08:00 PM 45-54 09:00 PM 46-55 10:00 PM 46-55 11:00 PM 41-50 Day Total 46-55 2.3% 0% 0.1% 0.2% 0.8% 27.3% 1.4% 0.2% 0% Percent 3.4% 16% 39.3% 8.6% 0.4% **AM Peak** 6:00 AM 12:00 AM 9:00 AM 5:00 AM 11:00 AM 11:00 AM 10:00 AM 9:00 AM 7:00 AM 11:00 AM 9:00 AM 7:00 AM 12:00 AM 8:00 AM Volume PM Peak 1:00 PM 12:00 PM 12:00 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 12:00 PM 3:00 PM 12:00 PM 12:00 PM 1:00 PM 12:00 PM 12:00 PM 2:00 PM Volume Comments:

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd QC JOB #: 16124308 SPECIFIC LOCATION: **DIRECTION: WB** 

CITY/STATE: Shasta CA

CITY/STATE:	Shasta,	CA														DATE: Ap	or 6 202
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	0	0	0	3	1	2	0	0	0	0	0	0	6	36-45	4
01:00 AM	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3	41-50	3
02:00 AM	0	0	0	0	0	0	1	3	3	0	0	0	0	0	7	46-55	6
03:00 AM	0	0	0	0	0	0	4	4	2	4	2	0	0	0	16	41-50	8
04:00 AM	1	0	0	0	0	2	0	1	0	0	1	0	0	0	5	31-40	2
05:00 AM	0	0	0	0	0	0	3	12	8	4	2	1	0	0	30	46-55	20
06:00 AM	1	0	0	0	0	0	7	9	16	15	2	0	0	0	50	51-60	31
07:00 AM	0	0	0	0	0	0	4	26	20	12	6	0	0	0	68	46-55	46
08:00 AM	2	0	0	0	0	3	14	46	36	10	4	0	0	0	115	46-55	82
09:00 AM	4	0	0	0	0	3	15	38	34	12	1	0	0	0	107	46-55	72
10:00 AM	3	0	0	0	2	2	17	43	29	13	2	0	0	0	111	46-55	72
11:00 AM	4	0	0	0	0	1	17	34	29	10	1	0	0	0	96	46-55	63
12:00 PM	4	0	0	0	0	2	16	42	25	7	1	0	0	0	97	46-55	67
01:00 PM	1	0	0	0	0	2	22	43	27	12	1	0	0	0	108	46-55	70
02:00 PM	4	0	0	1	0	4	17	36	31	5	1	0	0	0	99	46-55	67
03:00 PM	1	0	0	0	0	10	14	53	39	14	2	0	0	0	133	46-55	92
04:00 PM	4	0	0	0	0	5	15	42	21	8	3	1	0	0	99	46-55	63
05:00 PM	1	0	0	0	0	2	9	35	23	4	6	0	0	0	80	46-55	58
06:00 PM	1	0	0	0	0	1	2	17	11	7	1	0	1	0	41	46-55	28
07:00 PM	1	0	0	0	1	2	6	5	7	2	0	0	0	0	24	46-55	12
08:00 PM	1	0	0	0	0	1	5	4	2	0	1	1	0	0	15	41-50	9
09:00 PM	1	0	0	0	0	4	7	2	2	1	0	0	0	0	17	36-45	11
10:00 PM	0	0	0	0	0	0	2	1	2	0	0	0	0	0	5	41-50	3
11:00 PM	0	0	0	0	1	0	0	1	1	0	0	0	0	0	3	46-55	2
Day Total	34	0	0	1	4	47	200	500	368	140	37	3	1	0	1335	46.55	868
Percent	2.5%	0%	0%	0.1%	0.3%	3.5%	15%	37.5%	27.6%	10.5%	2.8%	0.2%	0.1%	0%	1335	46-55	808
AM Peak	9:00 AM 4	12:00 AM 0	12:00 AM 0	12:00 AM 0	10:00 AM 2	12:00 AM 3	10:00 AM 17	8:00 AM 46	8:00 AM 36	6:00 AM 15	7:00 AM 6	5:00 AM 1	12:00 AM 0	12:00 AM 0	8:00 AM 115		
Volume																	
PM Peak Volume	12:00 PM 4	12:00 PM 0	12:00 PM 0	2:00 PM 1	7:00 PM 1	3:00 PM 10	1:00 PM 22	3:00 PM 53	3:00 PM 39	3:00 PM 14	5:00 PM 6	4:00 PM 1	6:00 PM 1	12:00 PM 0	3:00 PM 133		

#### SUMMARY - Tube Count - Speed Data

LOCATION: WE	3 SR 299	west of E	Bunch Gra	ss Lookou	ıt Rd											QC JOB	#: 16124308
SPECIFIC LOCA	TION:															DIR	ECTION: WB
CITY/STATE: Sh	nasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Name	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	race speed	Pace
Grand Total	74	0	3	6	24	135	595	1485	1042	340	72	11	3	0	3790	46-55	2527
Percent	2%	0%	0.1%	0.2%	0.6%	3.6%	15.7%	39.2%	27.5%	9%	1.9%	0.3%	0.1%	0%	3790	40-33	2327
Cumulative Percent	2%	2%	2%	2.2%	2.8%	6.4%	22.1%	61.3%	88.8%	97.7%	99.6%	99.9%	100%	100%			
ADT 1263											•				Mea	an Speed(Avera	ntile: 54 MPH age): 48 MPH dian: 48 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

SPECIFIC LOCATION:

QC JOB #: 16124308 DIRECTION: WB

DATE: Apr 4 2023

CITY/STATE: Sh	asta, CA														Apr 4 202
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
		Trailers	Long		Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	
12:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
01:00 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
02:00 AM	0	3	1	0	0	0	0	2	0	0	0	0	0	0	6
03:00 AM	0	5	1	0	0	0	0	0	0	0	0	0	0	1	7
04:00 AM	0	4	3	0	1	0	0	0	0	0	1	0	0	0	9
05:00 AM	0	17	5	0	0	1	0	3	0	0	1	0	0	0	27
06:00 AM	0	24	6	0	1	0	0	3	0	0	0	0	0	1	35
07:00 AM	0	56	9	0	0	0	0	3	1	0	0	0	0	0	69
08:00 AM	0	62	21	0	1	0	0	9	0	0	0	0	0	0	93
09:00 AM	0	66	18	0	4	1	0	5	0	0	2	0	0	1	97
10:00 AM	0	70	20	0	4	0	0	8	0	0	4	0	0	3	109
11:00 AM	0	59	19	0	7	0	0	4	0	0	2	0	0	1	92
12:00 PM	0	64	19	0	6	0	0	6	0	0	3	0	0	0	98
01:00 PM	0	62	16	0	7	0	0	8	0	0	2	0	0	0	95
02:00 PM	0	70	22	0	6	1	0	8	0	0	0	0	0	0	107
03:00 PM	0	56	22	0	4	0	0	1	0	0	0	0	0	0	83
04:00 PM	0	64	13	0	9	0	0	5	0	0	1	0	0	1	93
05:00 PM	0	61	6	0	0	0	0	2	0	0	2	0	0	1	72
06:00 PM	0	39	5	0	1	0	0	1	0	0	1	0	0	1	48
07:00 PM	0	28	10	0	4	0	0	0	0	0	0	0	0	0	42
08:00 PM	0	11	0	0	0	0	0	2	0	0	0	0	0	0	13
09:00 PM	0	5	0	0	0	0	0	1	0	0	0	0	0	0	6
10:00 PM	0	3	2	0	0	0	0	1	0	0	0	0	0	0	6
11:00 PM	0	2	0	0	1	0	0	1	0	0	2	0	0	0	6
Day Total	0	836	218	0	56	3	0	73	1	0	21	0	0	10	1218
Percent	0%	68.6%	17.9%	0%	4.6%	0.2%	0%	6%	0.1%	0%	1.7%	0%	0%	0.8%	1210
ADT 1218															
AM Peak	12:00 AM		8:00 AM	12:00 AM		5:00 AM	12:00 AM	8:00 AM	7:00 AM				12:00 AM		10:00 A
Volume	0	70	21	0	7	1	0	9	1	0	4	0	0	3	109
PM Peak	12:00 PM 0	2:00 PM	2:00 PM	12:00 PM	4:00 PM	2:00 PM	12:00 PM	1:00 PM	12:00 PM	4:00 PM	2:00 P				
		70	22	0	9	1	0	8	0	0	3	0	0	1	107

SPECIFIC LOCATION:

QC JOB #: 16124308 DIRECTION: WB

DATE: Apr 5 2023

CITY/STATE: Sh	nasta, CA													DATE:	Apr 5 202
Start Time	Bikes	Cars &	2 Axle	Ducoc	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
Start Time	Bikes	Trailers	Long	Buses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
01:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
02:00 AM	0	0	0	0	0	0	0	2	0	0	1	0	0	0	3
03:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
04:00 AM	0	3	3	0	0	0	0	1	0	0	0	0	0	0	7
05:00 AM	0	18	5	0	0	1	0	5	0	0	2	0	0	0	31
06:00 AM	0	30	13	0	1	0	0	2	0	0	0	0	0	3	49
07:00 AM	0	39	23	0	1	0	0	2	0	0	0	0	0	3	68
08:00 AM	0	76	29	0	1	0	0	5	0	0	3	0	0	1	115
09:00 AM	0	56	22	0	2	1	0	7	0	0	3	0	0	1	92
10:00 AM	0	70	18	0	7	0	0	2	0	0	7	0	0	3	107
11:00 AM	0	67	12	0	4	0	0	10	0	0	4	0	0	3	100
12:00 PM	0	71	16	0	5	0	0	7	0	0	1	0	0	1	101
01:00 PM	0	61	18	0	9	0	0	10	0	0	0	0	0	3	101
02:00 PM	0	54	12	0	2	0	0	8	0	0	0	0	0	2	78
03:00 PM	0	76	16	0	3	0	0	4	0	0	1	0	0	1	101
04:00 PM	0	59	4	0	6	0	0	3	0	0	0	0	0	2	74
05:00 PM	0	68	11	0	4	0	0	7	0	0	0	0	0	2	92
06:00 PM	0	33	14	0	0	0	0	2	0	0	0	0	0	1	50
07:00 PM	0	13	6	0	0	0	0	1	0	0	1	0	0	2	23
08:00 PM	0	8	1	0	0	0	0	2	0	0	0	0	0	0	11
09:00 PM	0	7	1	O	1	0	0	1	0	0	2	0	0	1	13
10:00 PM	0	6	1	0	0	0	0	1	0	0	0	0	0	0	8
11:00 PM	0	2	0	0	1	0	0	1	0	0	0	0	0	0	4
Day Total	0	824	226	0	47	2	0	84	0	0	25	0	0	29	1227
Percent	0%	66.6%	18.3%	0%	3.8%	0.2%	0%	6.8%	0%	0%	2%	0%	0%	2.3%	1237
ADT 1237															
ANA Dook	12.00 454	Q.00 A.A.4	2.00 484	12.00 414	10:00 454		12.00 414	11.00 414	12.00 454	12.00 454	10.00 454	12.00 414	12.00 454	6:00 414	8.00 1
AM Peak Volume	12:00 AM 0	8:00 AM 76	8:00 AM 29	12:00 AIVI 0	10:00 AM 7	5:00 AM 1	12:00 AIVI 0	11:00 AIVI	12:00 AIVI 0	12:00 AM 0	7 TU:00 AIVI	12:00 AIVI 0	0 12:00 AIVI	6:00 AIVI	8:00 AN 115
											•				
PM Peak	12:00 PM 0	3:00 PM	1:00 PM	12:00 PM	1:00 PM	12:00 PM 0	12:00 PM	1:00 PM	12:00 PM	12:00 PM	9:00 PM	12:00 PM 0	12:00 PM 0	1:00 PM 3	12:00 P
Volume	U	76	18	0	9	U	0	10	0	0	2	U	U	3	101

SPECIFIC LOCATION:

**DIRECTION: WB** 

QC JOB #: 16124308

CITY/STATE: Shasta, CA DATE: Apr 6 2023

12:00 AM	Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
02:00 AM	12:00 AM	0	4		0	0			1	0	0	0	0	0	0	6
03:00 AM	01:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
08-00 AM	02:00 AM	0	3	1	0	1	0	0	2	0	0	0	0	0	0	7
05:00 AM	03:00 AM	0	6	5	0	3	0	0	2	0	0	0	0	0	0	16
OFFOO AM    O	04:00 AM	0	3	0	0	0	0	0	1	0	0	0	0	0	1	5
0770 AM 0	05:00 AM	0	19	6	0	2	0	0	2	0	0	1	0	0	0	30
08:00 AM	06:00 AM	0	24	12	0	6	0	0	7	0	0	0	0	0	1	50
OS-00 AM		0			0	4	0			0	0	0	0	0	0	68
10:00 AM		_			•	_				0	0		-	0		115
11:00 AM		_			0	•			-	0		_	_	0	-	107
12:00 PM		0		17	0	,				0	0		0	0	3	111
01:00 PM		0			0	9	0	0	2	0	0	2	0	0	4	96
02:00 PM		0			0	6	0			0	0	_	0	0	4	97
03:00 PM					-	-				_						108
04:00 PM					· ·					0	_		_	-	-	99
05:00 PM		_			0	,				0	•			0	1	133
06:00 PM		0			1					0	0	4	0	0	4	99
07:00 PM		0			0					0	0	1	0	0	1	80
08:00 PM		_			-	_				_		_			_	41
09:00 PM 10:00 PM 11:00 PM 11:00 PM 0         0 3 3 0 3 0 0         1 0 0 0 0 0 0         1 0 0 0 0 0 0 0         1 0 0 0 0 0 0         1 0 0 0 0 0 0         1 0 0 0 0 0 0         1 0 0 0 0 0 0         1 0 0 0 0 0 0         1 0 0 0 0 0         1 0 0 0 0 0 0         1 0 0 0 0 0         1 0 0 0 0 0         1 0 0 0 0         1 0 0 0 0         1 0 0 0 0         1 0 0 0 0         1 0 0 0 0          1 0 0 0 0         1 0 0 0 0         1 0 0 0 0         1 0 0 0 0         1 0 0 0 0         1 0 0 0 0         1 0 0 0 0         1 0 0 0 0 0         1 0 0 0 0 0 0 0 0         1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			16	2	0	2				0	0	_	0	0	1	24
10:00 PM		_		0					2	0				0	1	15
11:00 PM		_		1						4				0	_	17
Day Total Percent         0         890 66.7%         216 1 16.2%         1 81 0 0 0 0 94 0 0 0 19 0 0 0 34 1330           ADT 1335         ADT 1335           AM Peak Volume         12:00 AM 76 26 0 9 9 0 0 0 8 0 0 87 24 1 7 7 0 0 0 12 00 PM 12:00 PM 1		_										0				5
ADT 1335  AM Peak Volume 0 76 26 0 9 0 0 87 24 1 7 0 0 0 12 0 0 4 12:00 PM 13:00 PM 12:00 PM 13:00 PM 12:00 PM 13:00 PM 12:00 PM 13:00 PM	11:00 PM	0			0	_	0	0		0	0		0	0		3
ADT 1335  AM Peak Volume 0 76 26 0 9 0 0 8 0 0 12 0 0 4 12:00 PM 1	Day Total	_														1335
AM Peak Volume 0 76 26 0 9 0 0 8 12:00 PM 3:00 PM 4:00 PM 3:00 PM 4:00 PM 3:00 PM 12:00 PM 12	Percent	0%	66.7%	16.2%	0.1%	6.1%	0%	0%	7%	0%	0%	1.4%	0%	0%	2.5%	1333
Volume         0         76         26         0         9         0         0         8         0         0         2         0         0         4         11           PM Peak Volume         12:00 PM         3:00 PM         4:00 PM         3:00 PM         12:00 PM <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																
Volume         0         76         26         0         9         0         0         8         0         0         2         0         0         4         11           PM Peak Volume         12:00 PM         3:00 PM         4:00 PM         3:00 PM         12:00 PM <td< td=""><td>AM Peak</td><td>12:00 AM</td><td>10:00 AM</td><td>8:00 AM</td><td>12:00 AM</td><td>8:00 AM</td><td>12:00 AM</td><td>12:00 AM</td><td>8:00 AM</td><td>12:00 AM</td><td>12:00 AM</td><td>10:00 AM</td><td>12:00 AM</td><td>12:00 AM</td><td>9:00 AM</td><td>8:00 AM</td></td<>	AM Peak	12:00 AM	10:00 AM	8:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	9:00 AM	8:00 AM
PM Peak Volume 12:00 PM 3:00 PM 3:00 PM 4:00 PM 3:00 PM 12:00 PM 1																115
Volume         0         87         24         1         7         0         0         12         0         0         4         0         0         4         13		12:00 PM			4:00 PM	3:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM
																133
	Comments:															

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd QC JOB #: 16124308 SPECIFIC LOCATION: **DIRECTION: WB** CITY/STATE: Shasta, CA DATE: Apr 4 2023 - Apr 6 2023 Cars & 2 Axle 2 Axle 6 4 Axle <5 Axl 5 Axle >6 Axl <6 Axl Not 3 Axle 6 Axle >6 Axl Start Time **Bikes Buses** Total Trailers Long Tire Single Single Double Double Double Multi Multi Classed Multi **Grand Total** 0 2550 660 1 184 5 0 251 1 0 65 0 0 73 3790 0% 0.1% 6.6% 0% 1.9% Percent 0% 67.3% 17.4% 4.9% 0% 0% 1.7% 0% 0% ADT 1263

Report generated on 4/11/2023 4:55 PM

Comments:

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

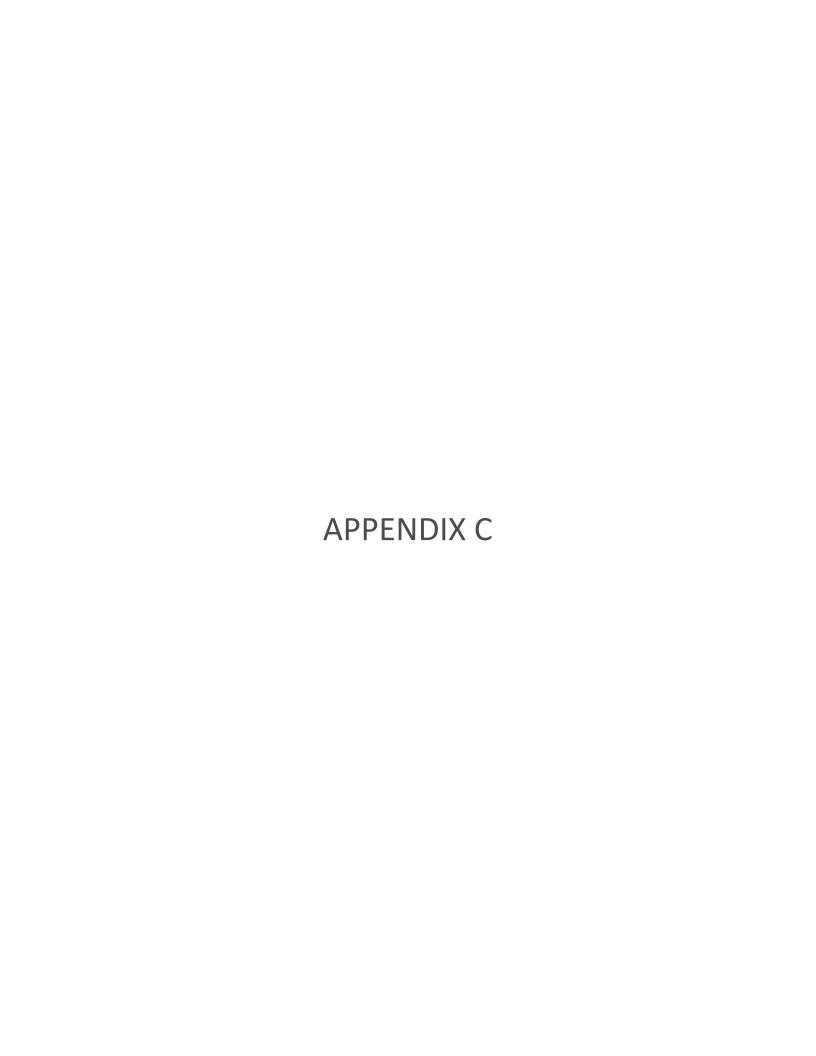


SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308

DIRECTION: WB

**DATE**: Apr 4 2023 - Apr 6 2023

Start Time	Mon	<b>Tue</b> 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		2	5	6		4			4	
01:00 AM		3	1	3		2			2	
02:00 AM		6	3	7		5			5	
03:00 AM		7	3	16		9			9	
04:00 AM		9	7	5		7			7	
05:00 AM		27	31	30		29			29	
06:00 AM		35	49	50		45			45	
07:00 AM		69	68	68		68			68	
08:00 AM		93	115	115		108			108	
09:00 AM		97	92	107		99			99	
10:00 AM		109	107	111		109			109	
11:00 AM		92	100	96		96			96	
12:00 PM		98	101	97		99			99	
01:00 PM		95	101	108		101			101	
02:00 PM		107	78	99		95			95	
03:00 PM		83	101	133		106			106	
04:00 PM		93	74	99		89			89	
05:00 PM		72	92	80		81			81	
06:00 PM		48	50	41		46			46	
07:00 PM		42	23	24		30			30	
08:00 PM		13	11	15		13			13	
09:00 PM		6	13	17		12			12	
10:00 PM		6	8	5		6			6	
11:00 PM		6	4	3		4			4	
Day Total		1218	1237	1335		1263			1263	
% Weekday Average		96.4%	97.9%	105.7%						
% Week Average		96.4%	97.9%	105.7%		100%				
AM Peak Volume		10:00 AM 109	8:00 AM 115	8:00 AM 115		10:00 AM 109			10:00 AM 109	
PM Peak Volume		2:00 PM 107	12:00 PM 101	3:00 PM 133		3:00 PM 106			3:00 PM 106	



CASE ID	ACCIDENT YEAR PRIMARY RD	SECONDARY RD	DIRECTION	INTERSECTION	STATE HIM	STATE BOIL	COLLISION SEVERITY N	UMBER KILLED	NUMBER INJURED PARTY COUN	T COUNT	MIDRIMARY	SECONDAR	COLINITY	CITY
90819703	2018 SR-299	WEBSTER WAY	W	N	V	299	Δ	01410211_112210	2	3	0-		SHASTA	UNINCORPORATED
90985017	2019 SR-299	JIM HARVEY RD	F	N	V	299	3	0	2	2	0 -		SHASTA	UNINCORPORATED
91047179	2019 SR-299	CLASSIC MEADOW PL	F	N	V	299	3	0	1	1	0 -		SHASTA	UNINCORPORATED
91342181	2020 SR-299	JACK PINE LANE	F	N	V	299	4	0	2	2	0 -		SHASTA	UNINCORPORATED
91431043	2021 SR-299	DU BOIS RD	W	N	V	299	4	0	1	1	0 -		SHASTA	UNINCORPORATED
91287034	2019 SR-299	LOWER SPRINGS ROAD	W	N	V	299	1	1	3	2	0 -		SHASTA	UNINCORPORATED
91041016	2019 SR-299 E/B	ROCKY RANCH RD	W	N	V	299	3		4	3	0 -		SHASTA	UNINCORPORATED
8822174		BOULDER DR	F	N	V	299	4	0	2	2	0 -		SHASTA	REDDING
90837967	2018 SR-299	WOODMAN LN	W	N	V	299	1	2	0	1	0 -		SHASTA	UNINCORPORATED
91184265	2018 SR-299	WHISKEY CREEK	F	N	V	299	2		1	2	0 -		SHASTA	UNINCORPORATED
91511141	2020 SR-299 2021 SR-299	SUGAR PINE CAMP RD	L	N	V	299	1	1	0	1	0 -		SHASTA	UNINCORPORATED
8819505		RT 273	L	N	V	299	2		1	1	0 -		SHASTA	REDDING
90664267	2019 KT 299 2018 SR-299	SOUTH SHORE DR	-	V	V	299	3	0	2	2	0 -		SHASTA	UNINCORPORATED
90684368	2018 SR-299 2018 SR-299	KING MILL RD	\//	Y NI	Y	299	3	0	2	1	0 -		SHASTA	UNINCORPORATED
90701577		MOOSE CAMP RD	l v	IN N	V	299	4	0	1	1	0 -		SHASTA	UNINCORPORATED
90755792		MOOSE CAMP ROAD	<u> </u>	IN N	V	299	2	0	1	2	0 -	_		UNINCORPORATED
			W/	IN .	Y			0	1	1	0 -	_	SHASTA	
91273293		WOODHILL DR.	100	IN .	Y	299	4	0	1	1	<u> </u>		SHASTA	UNINCORPORATED
90635010	2018 SR-299 W/B	WOODHILL DR	W	IN .	Y	299	4	0	1	1	0 -	_	SHASTA	UNINCORPORATED
91530472		LOOKOUT/ BUNCHGRASS ROAD	W	N N	Y	299	3	0	1	1	0 -		SHASTA	UNINCORPORATED
8718307		EUREKA WY		Y	Υ	299	4	0	1	2	0 -	_	SHASTA	REDDING
91248564		INTERMOUNTAIN ROAD	W	N N	Υ	299	4	0	2	3	0 -	_	SHASTA	UNINCORPORATED
90808719		CRYSTAL CREEK ROAD	E	N	Υ	299	2	0	2	2	0 -		SHASTA	UNINCORPORATED
91082499	2019 SR-299	MICHIGAN ST	W	N	Υ	299	3	0	1	1	0 -	_	SHASTA	UNINCORPORATED
91773000	2022 SR-299	BUELL ALY		Υ	Υ	299	4	0	2	2	0 -		SHASTA	UNINCORPORATED
91022022		PIT NO 1 POWERHOUSE RD	W	N	Υ	299	3	0	1	2	0 -	_	SHASTA	UNINCORPORATED
90809714		SECOND ST	E	N	Υ	299	4	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91639659		BEST LN	W	N	Υ	299	3	0	1	2	0 -		SHASTA	UNINCORPORATED
91796463		MOOSE CAMP RD	E	N	Υ	299	3	0	1	1	0 -	_	SHASTA	UNINCORPORATED
91189927		BUNCH GRASS LOOKOUT RD	E	N	Υ	299	3	0	1	2	1 -		SHASTA	UNINCORPORATED
8967332		RT 5		Υ	Υ	299	3	0	2	2	0 -		SHASTA	REDDING
91060860	2019 SR-299	WILSON WAY	W	N	Υ	299	4	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91315945		TRINITY ALLEY	W	N	Υ	299	3	0	1	2	0 -	-	SHASTA	UNINCORPORATED
90762950		HELENA LN		Υ	Υ	299	4	0	3	2	0 -	-	SHASTA	UNINCORPORATED
90808511	2018 SR-299	JIM HARVEY RD	W	N	Υ	299	3	0	2	2	0 -	-	SHASTA	UNINCORPORATED
91425650	2020 SR-299	WOODMAN LN (W)	E	N	Υ	299	1	1	0	1	0 -	-	SHASTA	UNINCORPORATED
91700099		BUNCH GRASS LOOKOUT RD	E	N	Υ	299	4	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91819526		J F KENNEDY MEMORIAL DR	W	N	Υ	299	4	0	1	1	0 -	-	SHASTA	UNINCORPORATED
90652732		CASSEL RD	W	N	Υ	299	3	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91205190	<u> </u>	DUBOIS RD	W	N	Υ	299	2	0	1	1	0 -	-	SHASTA	UNINCORPORATED
90849812		LOWER SPRINGS ROAD		Υ	Υ	299	1	1	0	2	0 -	-	SHASTA	UNINCORPORATED
91342176	2020 SR-299	CEDAR CREEK	E	N	Υ	299	4	0	3	1	0 -	-	SHASTA	UNINCORPORATED
91665540	2021 SR-299 W/B	DESCHUTES RD	E	N	Υ	299	4	0	1	2	0 -	-	SHASTA	UNINCORPORATED
91704170		DUSTY OAKS TRAIL	E	N	N	299	4	0	1	1	0 -	-	SHASTA	UNINCORPORATED
90886613	2018 STATE ROUTE 299	WOODMAN LANE		N	Υ	299	2	0	4	2	0 -	-	SHASTA	UNINCORPORATED
9513793	2022 EUREKA WY	CALIFORNIA ST		Υ	Υ	299	3	0	2	3	0 -	-	SHASTA	REDDING
90644228	2018 SR-299	SUGAR PINE CAMP RD	E	N	Υ	299	3	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91564630	2021 STATE ROUTE-299	HOADLEY PEAK ROAD	E	N	Υ	299	3	0	1	1	0 -	-	SHASTA	UNINCORPORATED
90964562	2019 SR-299	IRON MOUNTAIN RD	W	N	Υ	299	3	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91275630	2020 STATE ROUTE 299	SOUTH SHORE DRIVE	Е	N	Υ	299	1	1	1	1	0 -	-	SHASTA	UNINCORPORATED
91204327		HELENA LANE		Υ	Υ	299	3	0	2	2	0 -	-	SHASTA	UNINCORPORATED
91367405		PIT NO 1 POWERHOUSE RD	E	N	Υ	299	3	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91157996		BEST LANE	E	N	Υ	299	3	0	1	1	0 -		SHASTA	UNINCORPORATED
9078571		ALMOND AV	W	N	Υ	299	4	0	1	2	0 -		SHASTA	REDDING
90837571		MAIN ST.	E	N	Υ	299	1	1	0	1	0 -		SHASTA	UNINCORPORATED
	2021 SR-299	OAK RUN ROAD	W	1		299	2	0	-	-	0 -		SHASTA	UNINCORPORATED

90908872	2019 SR-299	VICTORIA DRIVE		Y	Υ	299	3	0	1	2	0 -		SHASTA	UNINCORPORATED
91115280	2019 SR-299	TRINITY MOUNTAIN RD.	W	N	Υ	299	4	0	1	1	0 -		SHASTA	UNINCORPORATED
91531998	2021 STATE ROUTE 299	SUGAR PINE CAMP ROAD	E	N	Υ	299	2	0	6	2	 0 -		SHASTA	UNINCORPORATED
91925377	2022 SR-299	MCCANDLESS GULCH ROAD	E	N	Υ	299	3	0	1	1	 0 -		SHASTA	UNINCORPORATED
90810688	2018 STATE ROUTE-299	MCCANLESS GULCH ROAD	E	N	Υ	299	3	0	3	2	 0 -		SHASTA	UNINCORPORATED
91674998	2022 SR-299	DESCHUTES RD	W	N	Υ	299	3	0	1	1	0 -		SHASTA	UNINCORPORATED
91326012	2020 SR-299	SUGAR PINE CAMP RD	W	N	Υ	299	3	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91513139	2021 STATE ROUTE 299	WHISKEY CREEK ROAD	E	N	Υ	299	4	0	1	3	0 -	-	SHASTA	UNINCORPORATED
91560641	2021 SR-299	S. SHORE DR.	W	N	Υ	299	3	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91006431	2019 STATE ROUTE 299	SOUTH SHORE DRIVE	E	N	Υ	299	4	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91328661	2020 SR-299	BUCKHORN SUMMIT	E	N	Υ	299	1	2	0	2	0 -	-	SHASTA	UNINCORPORATED
9450281	2021 RT 299	RT 5		Υ	Υ	299	4	0	2	2	0 -	NF	SHASTA	REDDING
91090774	2019 SR-299	SUGAR PINE CAMP RD	E	N	Υ	299	3	0	4	2	0 -	-	SHASTA	UNINCORPORATED
91019435	2019 SR-299	J F KENNEDY MEMORIAL DR	W	N	Υ	299	4	0	1	2	0 -	-	SHASTA	UNINCORPORATED
91021148	2019 SR-299	JIM HARVEY RD.		Υ	Υ	299	4	0	1	2	0 -	-	SHASTA	UNINCORPORATED
91559563	2021 STATE ROUTE 299	GRIZZLY GULCH RD	E	N	Υ	299	4	0	1	1	0 -	-	SHASTA	UNINCORPORATED
91867783	2022 RT 299	CASSEL RD	E	N	Υ	299	4	0	1	1	0 -	-	SHASTA	UNINCORPORATED
90764334	2018 SR-299	REYNOLDS ROAD	W	N	Υ	299	4	0	1	2	0 -	-	SHASTA	UNINCORPORATED
91021813	2019 SR-299 E/B	NEAL LANE	W	N	Υ	299	3	0	3	2	0 -	-	SHASTA	UNINCORPORATED
91274616	2020 SR-299	KERN DR.	W	N	Υ	299	2	0	1	1	0 -	-	SHASTA	UNINCORPORATED
9242306	2020 EUREKA WY	WILDWOOD LN	W	N	Υ	299	4	0	1	4	0 -	-	SHASTA	REDDING
91031008	2019 SR-299	SIERRA CENTER DR	E	N	Υ	299	3	0	2	1	0 -	-	SHASTA	UNINCORPORATED
91776005	2022 SR-299	MOOSE CAMP RD	E	N	Υ	299	3	0	2	1	0 -	-	SHASTA	UNINCORPORATED
91559632	2021 SR-299	DESCHUTES RD	E	N	Υ	299	2	0	3	2	0 -	-	SHASTA	UNINCORPORATED
8819497	2019 CHURN CREEK RD	RT 299	1	Υ	Υ	299	3	0	2	2	0 -	wo	SHASTA	REDDING
91475361	2021 SR-299	BUCKHORN SUMMIT	E	N	Υ	299	3	0	1	2	0 -	-	SHASTA	UNINCORPORATED
90738683	2018 SR-299 W/B	HOADLEY PEAKS RD	W	N	Υ	299	4	0	1	1	0 -		SHASTA	UNINCORPORATED
8718668	2018 EUREKA WY	MAGNOLIA AV	W	N	Υ	299	3	0	1	2	0 -		SHASTA	REDDING
8718319	2018 EUREKA WY	COURT ST		Υ	Υ	299	4	0	1	2	0 -	-	SHASTA	REDDING
91471052	2021 SR-299	WHISKEY CREEK	W	N	Υ	299	2	0	1	1	0 -		SHASTA	UNINCORPORATED
90689496	2018 SR-299	WHISKEY CREEK RD	E	N	Υ	299	4	0	1	1	0 -		SHASTA	UNINCORPORATED
91316947	2020 SR-299	J F KENNEDY MEMORIAL DRIVE	W	N	Υ	299	4	0	3	2	0 -		SHASTA	UNINCORPORATED
91324201	2020 SR-299	WILSON WAY		Y	Υ	299	3	0	2	2	0 -		SHASTA	UNINCORPORATED
9211627	2020 RT 299	SUNSET DR		Y	γ	299	1	1	0	2	0 -		SHASTA	REDDING
9435436	2021 EUREKA WY	11TH ST	W	N	γ	299	3	0	2	3	0 -		SHASTA	REDDING
91247262	2020 SR-299	WOODHILL DR	F	N	Y	299	4	0	1	1	 0 -		SHASTA	UNINCORPORATED
91302056	2020 SR-299	DU BOIS RD	W	N	Y	299	4	0	1	1	 0 -			UNINCORPORATED
91272194	2020 SR-299	SIERRA CENTER DR	W	N	ly	299	3	0	1	1	0 -		SHASTA	UNINCORPORATED
9420058	2021 EUREKA WY	COURT ST	W	N	ly	299	4	0	1	2	0 -		SHASTA	REDDING
90854104	2018 SR-299	DUSTY OAKS TRL	F	N	Y	299	1	1	0		 0 -		SHASTA	UNINCORPORATED
91748395	2022 SR-299 W/B	DU BOIS RD	W	N	v	299	Δ	0	1	1	 0 -		SHASTA	UNINCORPORATED
8718363	2018 RT 299	COURT ST	F	N	v	299	Λ	0	1	2	 0 -		SHASTA	REDDING
91150470	2019 SR-299	EAST COUNTY LINE RD	F	N	v	299	3	0	1	1	 0 -		SHASTA	UNINCORPORATED
91756643	2022 SR-299	GLENBURN ROAD	W	N	V	299	2	0	2	1	 0 -		SHASTA	UNINCORPORATED
91814335	2022 SR-299	TIMBER DR	F	N	V	299	Δ.	0	1	2	 0 -		SHASTA	UNINCORPORATED
90776554	2018 STATE ROUTE 299	OAK BOTTOM ROAD	+	N	V	299	4	0	3	2	 0 -		SHASTA	UNINCORPORATED
91650136	2021 SR-299	TAMARACK RD	W	N	V	299	2	0	3	1	 0 -		SHASTA	UNINCORPORATED
90732931	2018 STATE ROUTE 299	ROBIN WAY	le le	NI NI	V	299	Δ.	0	1	1	 0 -		SHASTA	UNINCORPORATED
91050412	2018 STATE ROUTE 299 2019 SR-299	SUGAR PINE CAMP RD.	<u> </u>	N	V	299	4	0	1	1	 0 -		SHASTA	UNINCORPORATED
91050412	2019 SR-299 W/B	J F KENNEDY MEMORIAL DR	\\\\\	N	V	299	4	0	1	1	 0 -		SHASTA	UNINCORPORATED
			W	IN IN	l v		3	0	1	3	 -			
91598895	2021 SR-299	KERN DR	W	IN V	Y V	299	3	0	1	1	 0 -		SHASTA	UNINCORPORATED
8168006	2019 EUREKA WY	WEST ST	+	Y	Y V	299	3	0	1	2	 0 -		SHASTA	REDDING
9296893	2021 EUREKA WY	CALIFORNIA ST		Y	Y	299	4	0	1	2	 0 -		SHASTA	REDDING
91072818	2019 SR-299E	OLD ALTURAS RD	IE IVA	IN N	ΙΥ	299	1	1	0	2	 0 -		SHASTA	UNINCORPORATED
91819656	2022 SR-299	TOLLHOUSE RD.	W	N N	l Y	299	3	0	1	1	0 -		SHASTA	UNINCORPORATED
90894240	2018 SR-299 W/B	AIRPORT WAY	W	IN	ΙY	299	3	0	1	2	0 -	-	SHASTA	UNINCORPORATED

04250402	2020   52 202	In a CARTILLIE BR	T <sub>E</sub>	I	lv.	1 200			4	2			I CLIA CT	LINUNGORDORATED
91259192	2020 SR-299	MCARTHUR RD.	L L	N N	Y	299	4	0	1	2	0 -		SHAST	
90696856	2018 STATE ROUTE 299	TRINITY ALLEY	W	N N	Y	299	4	0	1		1 -		SHAST	
91403792	2021 STATE ROUTE-299	TERRY MILL ROAD	W	N N	Y	299	4	0	1	1	0 -		SHAST	
91074398	2019 SR-299	WISKEY CREEK RD	W	N N	Y	299	4	0	2	1	0 -		SHAST	
90809718	2018 SR-299E	OLD ALTURAS RD	E .	N	Y	299	2	0	1	3	0 -		SHAST	
91512999	2021 STATE ROUTE 299	WHISKEY CREEK ROAD	E	N	Υ	299	3	0	1	2	0 -		SHAST	
91115292	2019 SR-299	SIERRA CENTER DR	E	N	Υ	299	4	0	1	2	0 -	-	SHAST	
8711810	2018 CHURN CREEK RD	RT 299	S	N	Υ	299	3	0	2	3	0 -	E		
91460443	2021 SR-299	KERN DRIVE	W	N	Υ	299	4	0	1	2	0 -	-	SHAST	
91169346	2020 SR-299	J F KENNEDY MEMORIAL DR	E	N	Υ	299	4	0	1	2	0 -	-	SHAST	
91911354	2022 SR-299	PIT #1 POWERHOUSE RD	E	N	Υ	299	3	0	2	1	0 -	-	SHAST	A UNINCORPORATED
90857357	2018 SR-299	CARR POWERHOUSE ROAD	E	N	Υ	299	4	0	1	1	0 -	-	SHAST	A UNINCORPORATED
90996953	2019 SR-299	SUGAR PINE CAMP RD	E	N	Υ	299	3	0	1	1	0 -	-	SHAST	
91469039	2021 SR-299	GRIZZLY GULCH RD		Υ	Υ	299	3	0	2	2	0 -	-	SHAST	A UNINCORPORATED
91838812	2022 SR-299E	DUBOIS ROAD	W	N	Υ	299	3	0	1	3	0 -	-	SHAST	A UNINCORPORATED
90919994	2019 SR-299	WOODMAN LANE	W	N	Υ	299	4	0	1	1	0 -	-	SHAST	A UNINCORPORATED
91151052	2019 SR-299	BUNCH GRASS LOOKOUT RD	W	N	Υ	299	4	0	1	1	0 -	-	SHAST	A UNINCORPORATED
91128608	2019 SR-299	HOADLEY PEAK ROAD	E	N	Υ	299	3	0	1	1	0 -	-	SHAST	A UNINCORPORATED
90799200	2018 SR-299	J F KENNEDY MEMORIAL DR	E	N	Υ	299	1	1	3	1	0 -	-	SHAST	A UNINCORPORATED
91694796	2022 SR-299	TERRY MILL RD.	W	N	Υ	299	3	0	3	2	0 -	-	SHAST	A UNINCORPORATED
90818855	2018 SR-299	FENDERS FERRY RD	W	N	Υ	299	1	1	1	2	0 -	-	SHAST	A UNINCORPORATED
91083218	2019 SR-299	OAK RUN RD	E	N	Υ	299	4	0	1	1	0 -	-	SHAST	A UNINCORPORATED
91268211	2020 SR-299	WHISKEY CREEK	E	N	Υ	299	4	0	1	2	0 -	-	SHAST	A UNINCORPORATED
91392123	2021 STATE ROUTE 299	WOODMAN LANE		N	Υ	299	3	0	1	1	0 -	-	SHAST	A UNINCORPORATED
91300174	2020 SR-299	ROCK CREEK RD	E	N	Υ	299	4	0	1	1	0 -	-	SHAST	A UNINCORPORATED
91588242	2021 SR-299	PIT NO. 1 POWERHOUSE RD	E	N	Υ	299	3	0	1	1	0 -	-	SHAST	
8967134	2019 EUREKA WY & MAGNOLI		F	N	γ	299	4	0	1	2	0 -	-	SHAST	
91104457	2019 SR-299	NEAL LANE	W	N	Y	299	4	0	3	3	0 -	-	SHAST	
90901008	2018 STATE ROUTE 299	PIT NO 1 POWERHOUSE RD	W	N	Y	299	1	1	5	1	0 -	-	SHAST	
90819804	2018 SR-299	DUNN MOODY RD	F	N	v	299	2	0	2	1	0 -		SHAST	
91204321	2020 SR-299 E/B	DESCHUTES RD	\\\/	N	v	299	3	0	1	1	0 -		SHAST	
91819653	2022 RT 299	BLACK RANCH RD	F	N	v	299	3	0	1	1	0 -		SHAST	
91450203	2021 SR-299 W/B	CHURN CREEK RD		N	V	299	2	0	2	1	0 -		SHAST	
91964888	2021 SR-299 W/B 2022 STATE ROUTE-299	MCCANDLESS GULCH ROAD		N	V	299	4	0	1	1	0 -	<del>-  </del> -	SHAST	
8718256	2018 EUREKA WY	MAGNOLIA ST	-	V	V	299	2	0	1	2	0 -	<del>-  </del> -	SHAST	
$\vdash$	2020 SR-299	TAMARACK RD	W	T N	Y V	299	3	0	1	2	1		SHAST	
91316938			l v v	N N	Y	299	3	0	1	1	1 -			
91717488	2022 SR-299	PIT NO. 1 POWERHOUSE RD.	lt.	IN .	Y		2	0	3	1	0 -		SHAST	
91496051	2021 SR-299	SUB STATION ROAD	E	N N	Y	299	2	0	2	1	0 -		SHAST	
9355840	2021 LAKE BL	NORTH MARKET ST	E	N N	Y	299	2	0	1	1	1 -		SHAST	
91098097	2019 SR-299	ROCKY RANCH ROAD	E	N 	Y	299	4	0	1	1	0 -		SHAST	
9513817	2022 EUREKA WY	WALNUT AV	W	N	Y	299	3	0	1	2	0 -		SHAST	
9529722	2022 EUREKA WY	SUNSET DR	E	N	Y	299	3	0	1	2	0 -		SHAST	
91416863	2021 SR-299	KAWLIGA LN	W	N	Υ	299	2	0	2	1	0 -		SHAST	
9515327	2022 EUREKA WY	COURT ST	E	N	Υ	299	4	0	2	2	0 -		SHAST	
9216282	2020 EUREKA WY	CALIFORNIA ST	W	N	Υ	299	4	0	4	3	0 -	-	SHAST	
91313828	2020 SR-299	BIG BEND RD	W	N	Υ	299	2	0	1	1	0 -	-	SHAST	
91214975	2020 SR-299	SUGAR PINE CAMP RD	E	N	Υ	299	1	1	0	2	0 -	-	SHAST	
9378523	2021 EUREKA WY	COURT ST	W	N	Υ	299	4	0	2	2	0 -	-	SHAST	A REDDING
91060868	2019 SR-299	ОАК ВОТТОМ	W	N	Υ	299	4	0	2	3	0 -	-	SHAST	
91840240	2022 SR-299	GRIZZLY GULCH RD	Е	N	Υ	299	3	0	1	2	0 -	-	SHAST	A UNINCORPORATED
91945649	2022 SR-299	DRY CREEK RD.	Е	N	N	299	3	0	3	2	0 -	-	SHAST	A UNINCORPORATED
9322671	2021 EUREKA WY	COURT ST	E	N	Υ	299	3	0	1	2	0 -	-	SHAST	A REDDING
90984073	2019 STATE ROUTE 299	ELM ST.	W	N	Υ	299	2	0	11	2	0 -	-	SHAST	A UNINCORPORATED
90828816	2018 SR-299	RED BLUFF ROAD	W	N	Υ	299	4	0	1	2	0 -	-	SHAST	A UNINCORPORATED
90858538	2018 SR-299 E/B TO CHURN CF	CHURN CREEK ROAD OFF RAMP	Е	N	Υ	299	2	0	1	2	1 -	-	SHAST	A REDDING
91144029	2019 SR-299	SUGAR PINE CAMP RD	W	N	Υ	299	4	0	1	2	0 -	-	SHAST	A UNINCORPORATED

	UNINCORPORATED
	REDDING
STATE   STAT	UNINCORPORATED
DRIEDWAY   2029   5-299	UNINCORPORATED
Description	UNINCORPORATED
90584977	UNINCORPORATED
	UNINCORPORATED
\$17,000.55   2022 [61-399 EM   MOORET PENAS RD.   C	UNINCORPORATED
SHAPTO   2021   SH-399   SHORT FRICKOMP RO   C   N   V   399   3   O   1   2   1   SHAPTO   WIND	UNINCORPORATED
1313-047   2000   58-2996   SIASMA MICHOF DO W N N Y 2996   4 0 0 2 2 2 0 0   SIASTA DIN SIASTA D	UNINCORPORATED
1911-19444   2015   53-299   SCAMAN CLICLE ID   W   N   Y   299   4   0   1   1   0   54-547   NUM   1917-1978   2015   53-299   DU BOS IND   W   N   Y   299   2   0   3   2   0   54-547   NUM   1917-1978   2022   57-299   DU BOS IND   W   N   Y   299   2   0   3   2   0   54-547   NUM   1917-1978   2022   57-299   HONGUY ENAST AD   ENASTA   NUM   1917-1978   2022   57-299   HONGUY ENAST AD   ENASTA   NUM   1917-1978   2022   57-299   HONGUY ENAST AD   ENASTA   NUM   1917-1978   2022   57-299   HONGUY ENAST AD   W   N   Y   299   2   0   1   1   0   54-5457   NUM   1917-1978   2022   57-299   HONGUY ENAST AD   W   N   Y   299   3   0   1   1   0   54-5457   NUM   1917-1978   2022   57-299   HONGUY ENAST AD   W   N   Y   299   3   0   3   1   0   54-5457   NUM   2022	UNINCORPORATED
9134646	UNINCORPORATED
91767888 2022 \$8-299   CHEYNNE BINYE   E N Y Y 299   2 0 0 3 2 0 0   SHASTA DUB 19189897   CHEYNNE BINYE   E N Y Y 299   2 0 0 1 1 1 1 - SHASTA DUB 19189897   CHEYNNE BINYE   CHEYNNE BINYE	UNINCORPORATED
1975-8857   2022   St. 299   HOADLEY PEAKS RD   E N   Y   299   2   0   1   1   1   .   SHASTA   UNIT	UNINCORPORATED
1014999    2019   STATE ROUTE 299  REMINT COUNTY   F. N. Y. 288  3   0   1   1   0   SIMASTA, N. N. N. Y. 288  3   0   1   1   0   SIMASTA, N. N. N. Y. 288  3   0   1   1   0   SIMASTA, N. N. N. Y. 288  3   0   1   1   0   SIMASTA, N. N. N. Y. 288  3   0   1   2   0   SIMASTA, N. N. N. Y. 288  3   0   1   2   0   SIMASTA, N. N. N. Y. 288  3   0   1   2   0   SIMASTA, N. N. N. Y. 288  3   0   1   2   0   SIMASTA, N. N. N. Y. 288  3   0   1   2   0   SIMASTA, N. N. N. N. Y. 288  3   0   3   2   0   SIMASTA, N. N. N. SIMASTA, S.	UNINCORPORATED
91259307	UNINCORPORATED
19466666   2021   187.999   0.000	UNINCORPORATED
1971-14033   2022   SR-299   ELM ST	UNINCORPORATED
1711-1712   1712	UNINCORPORATED
S819909   2019 RT 299   WHISKEYTOWN CT   E N Y 299   3 0 0 1 2 0 0 S SASTA   REC	UNINCORPORATED
9286862   2020 RT 299   RT 5	REDDING
BO73566    2018   SR-299   SUGAR PINE CAMP RD   E   N   Y   299   3   0   1   1   0   SHASTA   UNIVERSITY	REDDING
DOT-1917	UNINCORPORATED
1912/5929   2020   SR-299   PIT NO 1 POWERHOUSE RD   E   N   Y   299   4   0   1   1   0	UNINCORPORATED
99228138	UNINCORPORATED
2002-252599   2019   STATE ROUTE 299   SUGAR PINE CAMP RD   E   N   Y   299   4   0   1   1   0	UNINCORPORATED
91876584   2022   SR-299   JOHN F KENNEDY RD   E   N   Y   299   1   1   0   2   0   .   SHASTA   UN   UN   UN   UN   UN   UN   UN   U	UNINCORPORATED
90877377   2018   SR-299   OAK RUN RD   W   N   Y   299   3   0   1   1   1   0     SHASTA   DIN	UNINCORPORATED
91045708   2019   SR-299   MPM 49.30   W   N   Y   229   4   0   1   1   0   -   SHASTA   UNI	UNINCORPORATED
9001532	UNINCORPORATED
9108/8740   2013   SR-299   CRYSTAL CREEK ROAD   W   N   Y   299   3   0   2   1   2	REDDING
91387470   2021   SR-299   BUFFUM RD   E   N   Y   299   4   0   1   1   0   -   -   SHASTA   UN     91090039   2019   SR-299 W/B   299 SHASTA MPM 63.00   E   N   N   299   2   0   1   1   1   -   -   SHASTA   UN     91179899   2020   SR-299   OD LAITURAS RD.   Y   Y   299   4   0   1   2   0   -   -   SHASTA   UN     91503769   2021   SR-299 W/B   HOADLEY PEAKS RD.   E   N   Y   299   2   0   2   2   1   -   SHASTA   UN     91632226   2021   SR-299   TAMARACK RD   W   N   Y   299   3   0   1   2   0   -   -   SHASTA   UN     91887288   2022   SR-299   DU BOIS RD   W   N   Y   299   3   0   1   1   1   -   -   SHASTA   UN     9512703   2022   EUREKA WY   MAGNOLIA AV   E   N   Y   299   3   0   1   2   0   -   -   SHASTA   UN     91166022   2020   SR-299   CASSEL ROAD   W   N   Y   299   3   0   1   1   0   -   -   SHASTA   UN     911779111   2022   SR-299   ROCK CREEK RD   W   N   Y   299   4   0   1   1   0   -   -   SHASTA   UN     913940   2021   EUREKA WY   PIONEER DR   Y   Y   299   4   0   2   2   0   -   -   SHASTA   UN     91643564   2021   SR-299   TIMINT MOUNTAIN ROAD   W   N   Y   299   3   0   1   1   0   -   -   SHASTA   UN     91797111   2022   SR-299   ROCK CREEK RD   Y   Y   299   4   0   2   2   0   -   -   SHASTA   UN     91643564   2021   EUREKA WY   PIONEER DR   Y   Y   299   4   0   2   2   0   -   -   SHASTA   UN     9179740   2020   SR-299   ROCK CREEK RD   W   N   Y   299   3   0   1   1   0   -   -   SHASTA   UN     9179740   2020   SR-299   ROCK CREEK RD   W   N   Y   299   3   0   1   1   0   -   -   SHASTA   UN     9179740   2020   SR-299   ROCK CREEK RD   W   N   Y   299   2   0   1   1   0   -   -   SHASTA   UN     9179740   2020   SR-299   ROCK CREEK RD   W   N   Y   299   2   0   1   2   0   -   -   SHASTA   UN     9179740   2020   SR-299   ROCK CREEK RD   W   N   Y   299   2   0   1   2   0   -   -   SHASTA   UN     9179750   2020   SR-299   ROCK CREEK RD   W   N   Y   299   2   0   1   2   0   -   -   SHASTA   UN     9179750   2020   SR-299   ROCK CREEK RD   W   N   Y   299	UNINCORPORATED
91090039   2019   SR-299   W/B   299 SHASTA MPM 63.00   E   N   N   299   2   0   1   1   1	UNINCORPORATED
91179899 2020 \$R-299 OLD ALTURAS RD.	
91503769   2021   SR-299 W/B	UNINCORPORATED
91632226   2021   SR-299   TAMARACK RD   W   N   Y   299   3   0   1   2   0   -   SHASTA   UNI   91887288   2022   SR-299   DU BOIS RD   W   N   Y   299   3   0   1   1   1   -   SHASTA   UNI   9187273   2022   EURKA WY   MAGNOLIA AV   E   N   Y   299   4   0   1   2   0   -   SHASTA   UNI   9187273   2022   EURKA WY   MAGNOLIA AV   E   N   N   Y   299   4   0   1   1   0   -   SHASTA   UNI   9187273   2022   SR-299   CASSEL ROAD   W   N   Y   299   4   0   1   1   0   -   SHASTA   UNI   9187273   2022   SR-299   ROCK CREEK RD   W   N   Y   299   4   0   1   1   0   -   SHASTA   UNI   9187273   2022   EURKA WY   PIONEER DR   Y   Y   299   4   0   5   1   0   -   SHASTA   UNI   9187273   2022   EURKA WY   PIONEER DR   Y   Y   299   4   0   2   2   2   0   -   SHASTA   UNI   9187283   2023   SR-299   OAK RUN RD   W   N   Y   299   3   0   1   2   0   -   SHASTA   UNI   9187283   2023   SR-299   OAK RUN RD   W   N   Y   299   3   0   1   1   0   -   SHASTA   UNI   9187283   2023   SR-299   EURISTON TURNPIKE RD   W   N   Y   299   4   0   2   2   0   -   SHASTA   UNI   9187240   2020   SR-299   EURISTON TURNPIKE RD   W   N   Y   299   2   0   1   2   0   -   SHASTA   UNI   9187240   2020   SR-299   ROCK CREEK RD.   W   N   Y   299   2   0   1   2   0   -   SHASTA   UNI   9187240   2020   SR-299   ROCK CREEK RD.   W   N   Y   299   2   0   1   1   0   -   SHASTA   UNI   9187240   2020   SR-299   ROCK CREEK RD.   W   N   Y   299   2   0   1   1   0   -   SHASTA   UNI   9187240   2020   SR-299   ROCK CREEK RD.   W   N   Y   299   2   0   1   1   0   -   SHASTA   UNI   9187240   2020   SR-299   ROCK CREEK RD.   W   N   Y   299   2   0   1   1   0   -   SHASTA   UNI   9187240   2020   SR-299   ROCK CREEK RD.   W   N   Y   299   2   0   1   1   0   -   SHASTA   UNI   9187240   2020   SR-299   ROCK CREEK RD.   W   N   Y   299   2   0   1   1   0   -   SHASTA   UNI   9187240   2020   SR-299   UNISON WAY   Y   Y   299   2   0   1   1   0   -   SHASTA   UNI   9187240   2020   SR-299   UNISON WAY   Y   Y   299   3   0   1	UNINCORPORATED
91887288   2022   SR-299   DU BOIS RD   W   N   Y   299   3   0   1   1   1     SHASTA   UNI	UNINCORPORATED
9512703   2022   EUREKA WY   MAGNOLIA AV   E   N   Y   299	UNINCORPORATED
90873289 2018 STATE ROUTE 299 TAMARACK RD W N Y 299 3 0 0 1 1 0 0 - SHASTA UNI 91166022 2020 SR-299 CASSEL ROAD W N Y 299 4 0 1 1 1 0 0 - SHASTA UNI 9179111 2022 SR-299 ROCK CREEK RD Y Y Y 299 4 0 0 5 1 0 - SHASTA UNI 9433940 2021 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 0 0 - SHASTA UNI 91643564 2021 SR-299 DAK RUN RD W N Y 299 3 0 0 1 2 0 0 - SHASTA UNI 91643564 2021 SR-299 DAK RUN RD W N Y 299 3 0 0 1 1 0 0 - SHASTA UNI 8718411 2018 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 2 0 - SHASTA UNI 913940 2020 SR-299 LEWISTON TURNPIKE RD W N Y 299 2 0 0 1 0 2 2 0 0 - SHASTA REC 9090723 2019 SR-299 LEWISTON TURNPIKE RD W N Y 299 2 0 1 1 2 0 0 - SHASTA UNI 91379440 2020 SR-299 HALEAKALA AVE Y Y Y 299 2 0 1 1 2 0 - SHASTA UNI 91379440 2020 SR-299 ROCK CREEK RD. W N Y 299 2 0 1 1 1 0 - SHASTA UNI 91319452 2019 SR-299 AVELINA E N Y Y 299 2 0 1 1 1 0 - SHASTA UNI 91319452 2019 SR-299 AVELINA E N Y Y 299 2 0 1 1 1 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y Y 299 3 0 0 1 2 0 - SHASTA UNI	UNINCORPORATED
9116022 2020 SR-299 CASSELROAD W N Y 299 4 0 0 1 1 1 0 SHASTA UNI 91779111 2022 SR-299 ROCK CREEK RD Y Y Y 299 4 0 0 5 1 0 SHASTA UNI 9433940 2021 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 2 0 - SHASTA UNI 91643564 2021 SR-299 TRINITY MOUNTAIN ROAD W N Y 299 3 0 0 1 2 0 SHASTA UNI 871411 2018 EUREKA WY PIONEER DR Y Y Y 299 3 0 0 1 1 0 SHASTA UNI 871411 2018 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 2 0 SHASTA UNI 871411 2018 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 2 0 SHASTA UNI 871411 2018 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 2 0 SHASTA UNI 91379440 2020 SR-299 HALEAKALA AVE Y Y Y 299 2 2 0 1 2 0 SHASTA UNI 91379440 2020 SR-299 HALEAKALA AVE Y Y Y 299 2 2 0 1 1 2 0 SHASTA UNI 91125452 2019 SR-299 JAVELINA E N Y Y 299 4 0 0 3 2 0 SHASTA UNI 91125452 2019 SR-299 WILSON WAY Y Y 299 3 0 1 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI	REDDING
91779111 2022 SR-299 ROCK CREEK RD Y Y 299 4 0 5 1 0 SHASTA UNI 9433940 2021 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 0 0 SHASTA REC 90676608 2018 SR-299 TRINITY MOUNTAIN ROAD W N Y 299 3 0 1 2 0 SHASTA UNI 91643564 2021 SR-299 OAK RUN RD W N Y 299 3 0 1 1 0 SHASTA REC 9090723 2019 SR-299 LEWISTON TURNPIKE RD W N Y 299 4 0 2 2 0 SHASTA REC 9090723 2019 SR-299 LEWISTON TURNPIKE RD W N Y 299 2 0 1 2 0 SHASTA UNI 91379440 2020 SR-299 HALEAKALA AVE Y Y Y 299 2 0 1 2 0 SHASTA REC 90833825 2018 SR-299 ROCK CREEK RD. W N Y 299 2 0 1 1 0 SHASTA REC 90833825 2018 SR-299 ROCK CREEK RD. W N Y 299 2 0 1 1 0 SHASTA UNI 91125452 2019 SR-299 JAVELINA E N Y 299 2 0 1 1 0 SHASTA UNI 91125452 2019 SR-299 WILSON WAY Y Y 299 3 0 1 1 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 1 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 1 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 SHASTA UNI	UNINCORPORATED
9433940 2021 EUREKA WY PIONEER DR Y Y 299 4 0 0 2 2 0 0 SHASTA REC 90676608 2018 SR-299 TRINITY MOUNTAIN ROAD W N Y 299 3 0 1 2 0 SHASTA UNI 91643564 2021 SR-299 OAK RUN RD W N Y 299 3 0 0 1 1 0 SHASTA UNI 8718411 2018 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 1 0 0 2 2 0 0 SHASTA UNI 9167940 2020 SR-299 LEWISTON TURNPIKE RD W N Y 299 2 0 0 1 2 0 SHASTA UNI 91379440 2020 SR-299 ROCK CREEK RD. W N Y 299 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UNINCORPORATED
90676608 2018 SR-299 TRINITY MOUNTAIN ROAD W N Y 299 3 0 0 1 2 0 - SHASTA UNI 91643564 2021 SR-299 OAK RUN RD W N Y 299 3 0 0 1 1 2 0 - SHASTA UNI 8718411 2018 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 0 - SHASTA UNI 91379440 2020 SR-299 HALEAKALA AVE Y Y 299 2 2 0 1 2 0 - SHASTA UNI 91379440 2020 SR-299 ROCK CREEK RD. W N Y 299 2 2 0 1 2 0 - SHASTA UNI 91125452 2019 SR-299 JAVELINA E N Y Y 299 2 2 0 1 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y 299 3 0 1 0 3 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 1 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY N Y 299 3 0 0 1 2 0 - SHASTA UNI 91501398 2021 SR-299 WILSON WAY N Y 299 3 0 0 1 2 0 - SHASTA UNI	UNINCORPORATED
91643564 2021 SR-299 OAK RUN RD W N Y 299 3 0 0 1 1 0 0 SHASTA UNI 8718411 2018 EUREKA WY PIONEER DR Y Y Y 299 4 0 0 2 2 2 0 SHASTA REC 90990723 2019 SR-299 LEWISTON TURNPIKE RD W N Y 299 2 0 1 2 0 1 2 0 SHASTA UNI 91379440 2020 SR-299 HALEAKALA AVE Y Y Y 299 2 0 1 1 2 0 SHASTA REC 90833825 2018 SR-299 ROCK CREEK RD. W N Y 299 2 0 1 1 1 0 0 SHASTA UNI 91125452 2019 SR-299 JAVELINA E N Y Y 299 4 0 3 0 1 2 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY Y Y 299 3 0 0 1 2 0 0 SHASTA UNI 91501398 2021 SR-299 WILSON WAY	REDDING
8718411       2018 EUREKA WY       PIONEER DR       Y       Y       299       4       0       2       2       0 -       -       SHASTA       RED         90990723       2019 SR-299       LEWISTON TURNPIKE RD       W       N       Y       299       2       0       1       2       0 -       -       SHASTA       UNI         91379440       2020 SR-299       HALEAKALA AVE       Y       Y       299       2       0       1       2       0 -       -       SHASTA       RED         90833825       2018 SR-299       ROCK CREEK RD.       W       N       Y       299       2       0       1       1       0 -       -       SHASTA       UNI         9125452       2019 SR-299       JAVELINA       E       N       Y       299       4       0       3       2       0 -       -       SHASTA       UNI         91501398       2021 SR-299       WILSON WAY       Y       Y       299       3       0       1       2       0 -       -       SHASTA       UNI	UNINCORPORATED
90990723         2019 SR-299         LEWISTON TURNPIKE RD         W         N         Y         299         2         0         1         2         0 -         -         SHASTA         UNI           91379440         2020 SR-299         HALEAKALA AVE         Y         Y         299         2         0         1         2         0 -         -         SHASTA         RED           90833825         2018 SR-299         ROCK CREEK RD.         W         N         Y         299         2         0         1         1         0 -         -         SHASTA         UNI           91125452         2019 SR-299         JAVELINA         E         N         Y         299         4         0         3         2         0 -         -         SHASTA         UNI           91501398         2021 SR-299         WILSON WAY         Y         Y         299         3         0         1         2         0 -         -         SHASTA         UNI	UNINCORPORATED
91379440         2020 SR-299         HALEAKALA AVE         Y         Y         299         2         0         1         2         0 -         -         SHASTA         RED           90833825         2018 SR-299         ROCK CREEK RD.         W         N         Y         299         2         0         1         1         0 -         -         SHASTA         UNI           91125452         2019 SR-299         JAVELINA         E         N         Y         299         4         0         3         2         0 -         -         SHASTA         UNI           91501398         2021 SR-299         WILSON WAY         Y         Y         299         3         0         1         2         0 -         -         SHASTA         UNI	REDDING
90833825         2018 SR-299         ROCK CREK RD.         W         N         Y         299         2         0         1         1         0 -         -         SHASTA         UNI           91125452         2019 SR-299         JAVELINA         E         N         Y         299         4         0         3         2         0 -         -         SHASTA         UNI           91501398         2021 SR-299         WILSON WAY         Y         Y         299         3         0         1         2         0 -         -         SHASTA         UNI	UNINCORPORATED
91125452         2019 SR-299         JAVELINA         E         N         Y         299         4         0         3         2         0 -         -         SHASTA         UNI           91501398         2021 SR-299         WILSON WAY         Y         Y         299         3         0         1         2         0 -         -         SHASTA         UNI	REDDING
91501398 2021 SR-299 WILSON WAY Y 299 3 0 1 2 0 SHASTA UNI	UNINCORPORATED
	UNINCORPORATED
	UNINCORPORATED
באבסייסטן בסבדבוערבסט בערואושוע ססביטועים וב ווע וו בסבד באבר סו סו סו סו דו הויע וו בסביסו בסבד באבר סו	UNINCORPORATED
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91308639	2020 SR-299	SEAMAN GULCH RD	E	N N	Υ	299	4	0	1	1		0 -	-	SHASTA	UNINCORPORATED
91340043	2020 SR-299	LIVONA LANE		Y	Υ	299	2	0	2	2		0 -	-	SHASTA	UNINCORPORATED
91789973	2022 SR-299	IRON MOUNTAIN RD		Y	Υ	299	3	0	1	2		0 -		SHASTA	UNINCORPORATED
91845423	2022 STATE ROUTE 299	EAST STILLWATER WAY	W	N	Υ	299	3	0	1	1		0 -		SHASTA	UNINCORPORATED
90659541	2018 SR-299	PIT NO 1 POWERHOUSE RD	E	N	Υ	299	4	0	1	1		0 -		SHASTA	UNINCORPORATED
8718252	2018 EUREKA WY	COURT ST	E	N	Υ	299	4	0	1	2		0 -		SHASTA	REDDING
8718881	2018 EUREKA WY	CALIFORNIA ST		Υ	Υ	299	4	0	1	2		0 -		SHASTA	REDDING
8822233	2018 LAKE BL E	ERICKSON WY		N	Υ	299	3	0	1	2		0 -		SHASTA	REDDING
8911076	2020 EUREKA WY	WHISKEYTOWN CT	E	N	Υ	299	1	1	1	3		0 -	-	SHASTA	REDDING
90728213	2018 SR-299	J F KENNEDY MEMORIAL DR	E	N	Υ	299	2	0	3	1		0 -	-	SHASTA	UNINCORPORATED
90741939	2018 SR-299	IRON MOUNTAIN RD	E	N	Υ	299	3	0	1	1		0 -	-	SHASTA	UNINCORPORATED
90888718	2018 STATE ROUTE-299	WOODMAN LANE	W	N	Υ	299	4	0	1	1		0 -	-	SHASTA	UNINCORPORATED
90952284	2019 SR-299	MOOSE CAMP RD	E	N	Υ	299	2	0	1	1		0 -	-	SHASTA	UNINCORPORATED
90959064	2019 STATE ROUTE 299	PIT 1 POWERHOUSE RD.	Е	N	Υ	299	4	0	1	1		0 -	-	SHASTA	UNINCORPORATED
90965735	2019 SR-299	WOODHILL DRIVE (LOWER)	E	N	Υ	299	3	0	2	1		0 -	-	SHASTA	UNINCORPORATED
90994244	2019 SR-299	MAIN STREET		Υ	N	299	4	0	1	4		0 -	-	SHASTA	UNINCORPORATED
91005876	2019 SR-299	LEWISTON TURNPIKE RD	W	N	Υ	299	2	0	2	2		0 -	-	SHASTA	UNINCORPORATED
91040564	2019 STATE ROUTE-299	SUGAR PINE CAMP ROAD	E	N	Υ	299	4	0	1	1		0 -	-	SHASTA	UNINCORPORATED
91096911	2019 SR-299	J F KENNEDY MEMORIAL DR	W	N	N	299	3	0	1	1		0 -	-	SHASTA	UNINCORPORATED
91160718	2019 SR-299	BLACK RANCH ROAD		Υ	Υ	299	3	0	1	2		0 -	-	SHASTA	UNINCORPORATED
91163903	2020 SR-299	TIMBER DR		Υ	Υ	299	4	0	3	2		0 -	-	SHASTA	UNINCORPORATED
91200632	2020 SR-299	WHISKEY CREEK RD	W	N	Υ	299	3	0	1	1		0 -	-	SHASTA	UNINCORPORATED
91204347	2020 SR-299	IRON MOUNTAIN ROAD	E	N	Υ	299	2	0	4	2		0 -	-	SHASTA	UNINCORPORATED
91214198	2020 SR-299	COMMERCE WAY		Υ	Υ	299	4	0	1	2		0 -		SHASTA	UNINCORPORATED
91238149	2020 SR-299	WHISKEY CREEK RD		γ	Y	299	3	0	1	3		0 -		SHASTA	UNINCORPORATED
91287794	2020 SR-299	TERRY MILL RD.	\\\/	N	V	299	Δ	0	2	2		0 -		SHASTA	UNINCORPORATED
91320575	2020 SR-299 (EASTBOUND)	I-5	F	N	V	299	1	0	1	2		0 -		SHASTA	REDDING
91329282	2020 SR-299 E/B	COMMERCE WAY	W	N	V	299	4	0	1	2		0 -		SHASTA	UNINCORPORATED
91350106	2020 SR-299	DU BOIS RD	\\/	N	V	299	7 /	0	1	1		0 -		SHASTA	UNINCORPORATED
91361577	2020 STATE ROUTE-299	SUGAR PINE CAMP ROAD	F	N	V	299	1	1	2			0 -		SHASTA	UNINCORPORATED
91407082	2021 SR-299	LEWIS RD	W	N	V	299	2	1	1	1		0		SHASTA	UNINCORPORATED
91441681	2021 SR-299 2021 SR-299	MOOSE CAMP RD	W	N N	V	299	2	0	1	2		0 -		SHASTA	UNINCORPORATED
91445264	2021 SR-299	OAK RUN RD.	W	N	V	299	3	0	1	1		0		SHASTA	UNINCORPORATED
91458353	2021 SR-299 2021 SR-299	REBECCA LANE	\//	IN N	V		3	0	1	1		0		SHASTA	UNINCORPORATED
$\overline{}$			l v v	IN IN	Y	299	4	0	1	1		1			
91470305	2021 STATE HIGHWAY 299	MC CANDLESS ROAD	\//	IN IN	Y	299	3	0	1	1		1 -		SHASTA	UNINCORPORATED
91492709	2021 SR-299	ROCK CREEK RD.	VV	IN	Y	299	3	0	1	1		0 -		SHASTA	UNINCORPORATED
91519331		TRINITY COUNTY LINE	E	N N	IN .	299	3	0	1	1		0 -			UNINCORPORATED
91548435	2021 SR-299	MOUNTAIN VIEW RD	_	Y	Y	299	3	0	1	1		0 -		SHASTA	UNINCORPORATED
91560164	2021 SR-299 W/B	MOOSE CAMP RD	E	N	Υ	299	3	0	1	1		1 -		SHASTA	UNINCORPORATED
91592924	2021 SR-299	BLACK RANCH ROAD	E	N	Υ	299	2	0	2	2		0 -		SHASTA	UNINCORPORATED
91593519	2021 SR-299	RIVER OAKS PLACE	W	N	Υ	299	3	0	1	1		0 -		SHASTA	UNINCORPORATED
91612099	2021 SR-299	GRIZZLY GULCH RD	E	N	Υ	299	3	0	1	1		0 -		SHASTA	UNINCORPORATED
91613200	2021 SR-299	SUGAR PINE CAMP RD	E	N	N	299	3	0	1	1		0 -	-	SHASTA	UNINCORPORATED
91639993	2021 SR-299	HAT CREEK PARK ENTRANCE/ EXIT RO	E	N	Υ	299	4	0	1	1		0 -		SHASTA	UNINCORPORATED
91703067	2022 SR-299	CASSEL RD	W	N	Υ	299	3	0	1	1		0 -	-	SHASTA	UNINCORPORATED
91707669	2022 SR-299	E. STILLWATER WAY		Υ	Υ	299	3	0	1	2		1 -	-	SHASTA	UNINCORPORATED
91745146	2022 SR-299	BLUE SKY RD		Υ	Υ	299	3	0	3	2		0 -	-	SHASTA	UNINCORPORATED
91789186	2022 SR-299	DU BOIS RD	W	N	Υ	299	3	0	2	1		0 -	-	SHASTA	UNINCORPORATED
91807094	2022 SR-299 W/B	JFK MEMORIAL DR.	W	N	Υ	299	1	1	1	2		0 -	-	SHASTA	UNINCORPORATED
91810137	2022 SR-299	HUDSON STREET	W	N	Υ	299	3	0	1	2		0 -	-	SHASTA	UNINCORPORATED
91851733	2022 SR-299	HUDSON ST		Υ	Υ	299	3	0	1	2		0 -	-	SHASTA	UNINCORPORATED
91869888	2022 SR-299	PIT NO 1 PWHS RD.	W	N	Υ	299	1	1	0	2		0 -	-	SHASTA	UNINCORPORATED
91955262	2022 STATE ROUTE 299	299 SHA 48.85	W	N	Υ	299	3	0	1	1		0 -		SHASTA	UNINCORPORATED
9378531	2021 EUREKA WY	WALNUT AV		Υ	Υ	299	2	0	2	2		1 -		SHASTA	REDDING
9494162	2021 LAKE BL	ERICKSON WY	W	N	lv	299	3	0	2	2				SHASTA	REDDING
94941621	ZOZI ILAKL DL		I V V		11 .	20.01		U i			ı	U [ -	-	JIIAJIA	INCODING

## SH DI GR M

Primary Street: CA-299 E

Secondary Street:

Between I-5 and Hawley Road

Time Period:

5 Years (2018-2022)

Agency Name:

Westwood Professional Services

Mapping Summary:	
Fatal Crash	0
Injury Crash	5
Mapped	5
Not Drawn	1
Total	6

- → Straight
- \_<del>•</del> Left Turn
- → Right Turn
- **\_ U-Turn**
- → Overturned
- ¬► Ran Off Road
- **---** Stopped
- Parked

- Pedestrian

  - Fatal Crash
  - Injury Crash



Date Created: 02/23/2024

Primary Street: CA-299 E

Secondary Street:

Between Hawley Road and Old O

Time Period:

5 Years (2018-2022)

Agency Name:

Westwood Professional Services

Mapping Summary:
Fatal Crash 0
Injury Crash 2
Mapped 2
Not Drawn 0
Total 2

- **→** Straight
- \_**∲** Left Turn
- → Right Turn
- ◆ U-Turn
- → Overturned
- √► Ran Off Road
- **⊪** Stopped
- Parked

- Pedestrian
- -
- Fatal Crash
- Injury Crash



Date Created: 02/23/2024

### SH DI GR M

Primary Street: CA-299 E

Secondary Street:

Between Old Oregon Trail and De

Time Period:

5 Years (2018-2022)

Agency Name:

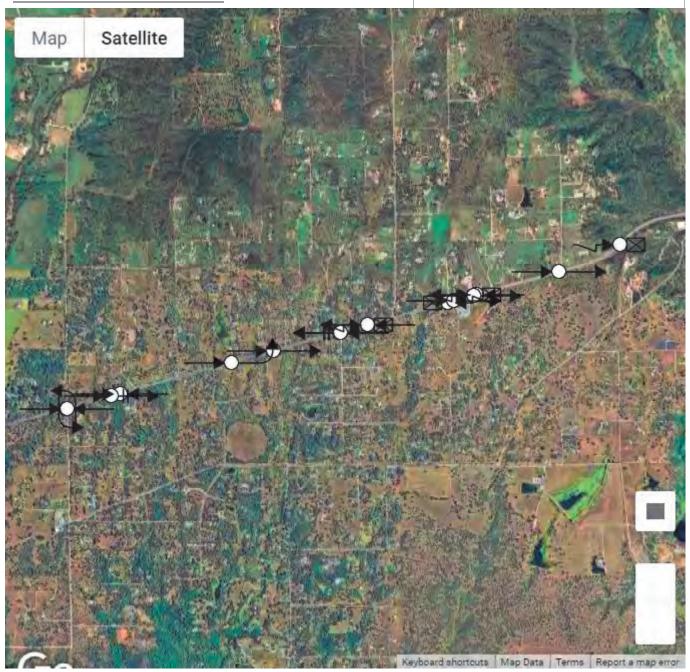
Westwood Professional Services

Mapping Summary: Fatal Crash 0 Injury Crash 17 Mapped 17 Not Drawn 8 Total 25

- **→** Straight
- **∲** Left Turn
- → Right Turn
- ◆ U-Turn
- → Overturned
- ¬► Ran Off Road
- **---** Stopped
- Parked

- Pedestrian

- Fatal Crash
- Injury Crash



Date Created: 02/23/2024

Primary Street:
CA-299 E
Secondary Street:
Deschutes Road to Terry Mill Roa
Time Period:
5 Years (2018-2022)
Agency Name:

Westwood Professional Services

Mapping Summary:
Fatal Crash 5
Injury Crash 42
Mapped 47
Not Drawn 23
Total 70

**→** Straight

◆ Left Turn

→ Right Turn

**◆** U-Turn

→ Overturned

✓► Ran Off Road

**⊩**► Stopped

Parked

Pedestrian

Fatal Crash

Injury Crash



Date Created: 02/23/2024

Primary Street: CA-299 E

Secondary Street:

Terry Mill Road to Big Bend Road

Time Period:

5 Years (2018-2022)

Agency Name:

Westwood Professional Services

Mapping Summary:
Fatal Crash 0
Injury Crash 6
Mapped 6
Not Drawn 2
Total 8

- **→** Straight
- \_**∲** Left Turn
- → Right Turn
- ◆ U-Turn
- → Overturned
- √► Ran Off Road
- **---** Stopped
- Parked

- Pedestrian
  - // redestila

- Fatal Crash
- Injury Crash



Date Created: 02/23/2024

Primary Street:
CA-299 E
Secondary Street:
Site Entrance #1 to #2
Time Period:
5 Years (2018-2022)

Agency Name: Westwood Professional Services

Mapping Summary:	
Fatal Crash	0
Injury Crash	6
Mapped	6
Not Drawn	2
Total	8

- **→** Straight
- \_**∲** Left Turn
- → Right Turn
- ◆ U-Turn
- → Overturned
- √► Ran Off Road
- **---** Stopped
- **⊠►** Parked

- Pedestrian

- Fatal Crash
- Injury Crash



Date Created: 02/23/2024

Primary Street: CA-299 E

Secondary Street:

Site Entrance #2 to Tamarack Roa

Time Period:

5 Years (2018-2022)

Agency Name:

Westwood Professional Services

Mapping Summary:
Fatal Crash 0
Injury Crash 7
Mapped 7
Not Drawn 1
Total 8

- **→** Straight
- \_\_\_\_\_ Left Turn
- → Right Turn
- ◆ U-Turn
- → Overturned
- √► Ran Off Road
- **⊮** Stopped
- **⊠►** Parked

- Pedestrian
  - N I caesina

- Fatal Crash
- Injury Crash



Date Created: 02/23/2024

Primary Street: CA-299 E

Secondary Street:

Tamarack Road to Elm Street

Time Period:

5 Years (2018-2022)

Agency Name:

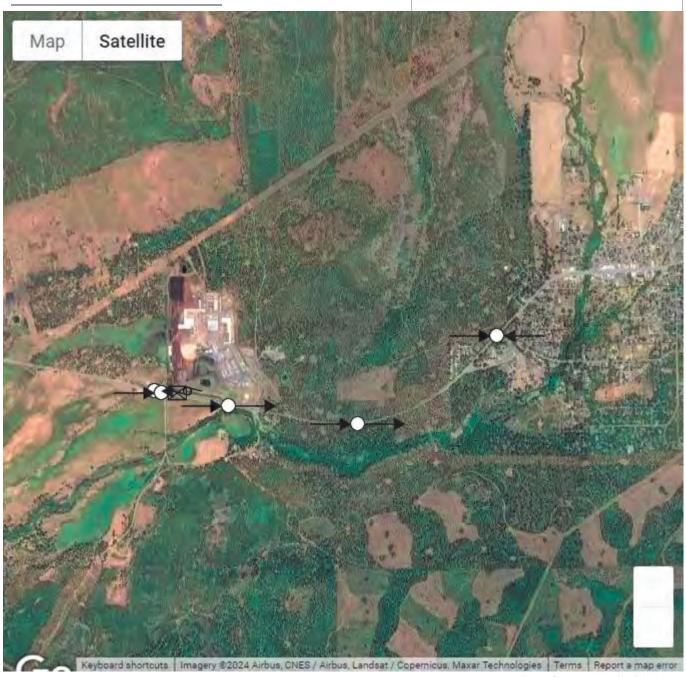
Westwood Professional Services

Mapping Summary:
Fatal Crash 0
Injury Crash 5
Mapped 5
Not Drawn 0
Total 5

- **→** Straight
- \_**∲** Left Turn
- → Right Turn
- ◆ U-Turn
- → Overturned
- √► Ran Off Road
- **---** Stopped
- Parked

- Pedestrian
- M redestrie

- Fatal Crash
- Injury Crash



Date Created: 02/23/2024

Primary Street: CA-299 E

Secondary Street:

Elm Street to Plumas Street

Time Period:

5 Years (2018-2022)

Agency Name:

Westwood Professional Services

Mapping Summary:
Fatal Crash 0
Injury Crash 7
Mapped 7
Not Drawn 0
Total 7

- **→** Straight
- \_**→** Left Turn
- → Right Turn
- ◆ U-Turn
- → Overturned
- √► Ran Off Road
- **---** Stopped
- Parked

- Pedestrian
- Ø Bicycle
- G O Bloyclo
- Fatal Crash
- Injury Crash



Date Created: 02/23/2024

Crash Rate = (Number of Crashes) x (1,000,000)

Vehicle Miles of Travel

Fatality Rate = (Number of Victims) x (100,000,000)

Vehicle Miles of Travel

The terms Rural and Urban are not to be confused with Inside and Outside Cities since they are not necessarily the same. Urban areas are defined and approved by the Federal Highway Administration (FHWA) on the general basis of urban characteristics and do not necessarily coincide with city boundaries.

Suburban areas are defined as areas inside city limits but classified as rural, plus areas outside city limits but classified as urban by the FHWA. All areas not classified as urban are rural.

#### D. Basic or Average Crash Rate Tables

The basic or average crash rate tables begin on page 83. The rates shown were all reviewed and revised during March 2020, with addition of Intersection Rate Group 31 – Roundabout, all access.

The average rates for all highway, intersection and ramp rate groups are primarily based on crash data for the years 2015 through 2019. These five years data were also used to determine the percentages of fatal and injury crashes.

It should be noted that some of the rate groups are based on limited amounts of mileage and travel. The use of these rate groups by local agencies as a standard or average rate for local roads may or may not be entirely appropriate.

#### E. Pedestrian and Bicycle Fatality and Injury Data

The pedestrian tables begin on page 91. The data contained in these tables includes the number of pedestrians that were involved in crashes on California state highways. Beginning 2012, crosswalks on state highways are included as intersection crash locations.

The bicycle tables begin on page 101. The data contained in these tables include the number of bicyclists that were involved in crashes on California state highways.

The pedestrian and bicyclist data also include crashes in the ramp area 4 and intersection area 6 as defined below.

- Non-state Route Associated with Ramp Area 4 is the area in an interchange on a county road or city street within 100 feet outside the outermost ramp terminal.
- Non-state Route Associated with State Route Intersection Area 6 is when a vehicle leaves the road from or when the crash occurs on a non-state route outside the state right of way limits and within 250 feet from the center of the intersection.

# CALIFORNIA STATE HIGHWAYS STATEWIDE TRAVEL AND CRASH RATES

				2020		3-YR R	ates ( 2018, 201	9, 2020)
LANE	2020	2020	CRA	SHES	VICTIMS	CRA	SHES	VICTIMS
TYPE	ROAD	TRAVEL	TOTAL	FATAL+	FATALITIES	TOTAL	FATAL +	FATALITIES
	MILES	(MVM)	PER	INJURY	PER	PER	INJURY	PER
			MVM	PER MVM	100 MVM	MVM	PER MVM	100 MVM
RURAL (INSIDE + OUT	SIDE CITY)							
	7,058.8	9,766.5	0.99	0.45	3.44	1.03	0.46	3.32
2 AND 3 LN	70.2	252.9	0.85	0.28	1.58	0.96	0.33	2.51
4+ UND	324.1	1,730.2	0.61	0.23	1.56	0.74	0.27	1.53
	7,453.0	11,749.6	0.93	0.41	3.12	0.99	0.43	3.04
4+ DIV SUBTOTAL	718.5	1,550.2	0.68	0.29	2.45	0.72	0.30	2.34
2 AND 3 LN EXP	589.5	3,651.3	0.53	0.19	1.31	0.60	0.21	1.30
4+ DIV EXP	8,761.1	16,951.1	0.82	0.35	2.67	0.88	0.37	2.61
NON FWY	1,720.1	22,914.6	0.46	0.15	0.83	0.49	0.16	0.87
FREEWAY	10,481.2	39,865.7	0.61	0.24	1.61	0.65	0.25	1.60
TOTAL URBAN (INSIDE + OUT	SIDE CITY)							-
,	921.2	3,310.4	1.09	0.48	2.45	1.20	0.52	1.95
O AND O LAIL	86.1	621.4	1.37	0.62	2.09	1.41	0.63	2.32
2 AND 3 LN	588.7	6,287.1	1.00	0.50	2.00	1.13	0.56	1.72
4+ UND 4+ DIV	1,595.9	10,218.9	1.05	0.50	2.15	1.17	0.55	1.83
SUBTOTAL	97.8	356.8	0.93	0.37	2.52	0.92	0.35	1.72
2 AND 3 LN EXP	187.3	2,147.5	0.71	0.29	0.79	0.79	0.31	0.93
4+ DIV EXP	1,881.0	12,723.2	0.99	0.46	1.93	1.10	0.50	1.67
NON FWY	2,691.4	120,925.3	0.78	0.24	0.61	0.95	0.30	0.51
FREEWAY	4,572.4	133,648.5	0.80	0.27	0.73	0.96	0.32	0.62
TOTAL STATEWIDE	,	· · · · · · · · · · · · · · · · · · ·						
	7,980.0	13,076.9	1.02	0.46	3.19	1.07	0.47	2.97
2 AND 3 LN	156.2	874.3	1.22	0.53	1.94	1.29	0.55	2.37
4+ UND	912.8	8,017.3	0.91	0.44	1.91	1.05	0.50	1.68
4+ DIV	9,049.0	21,968.5	0.99	0.45	2.67	1.07	0.48	2.47
SUBTOTAL	816.3	1,907.0	0.73	0.31	2.46	0.76	0.31	2.22
2 AND 3 LN EXP	776.8	5,798.8	0.60	0.23	1.12	0.67	0.25	1.16
4+ DIV EXP	10,642.1	29,674.3	0.89	0.40	2.36	0.97	0.43	2.20
NON FWY	4,411.5	143,839.9	0.73	0.23	0.64	0.88	0.28	0.56
FREEWAY	15,053.6	173,514.2	0.76	0.26	0.93	0.89	0.30	0.84
TOTAL								



	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	5/15/2023
Agency	California Energy Commission	Analysis Year	2020
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	PRE- CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
<b>Direction 1 Geometric Data</b>			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 1 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		
Volume(V) veh/h	575	Heavy Vehicle Adjustment Factor (fHV)	0.942
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	324
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.16
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	6.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	306	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.35
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	5/15/2023
Agency	California Energy Commission	Analysis Year	2020
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	PRE- CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
<b>Direction 2 Geometric Data</b>			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	1100	Heavy Vehicle Adjustment Factor (fHV)	0.936
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	625
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.31
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	11.7
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	В
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	585	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.68
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	5/15/2023
Agency	California Energy Commission	Analysis Year	2020
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	PRE- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	1.70
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	5
Median Type	Divided	Total Lateral Clearance (TLC), ft	11
Free-Flow Speed (FFS), mi/h	54.6		
Direction 1 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		
Volume(V) veh/h	475	Heavy Vehicle Adjustment Factor (fHV)	0.951
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	266
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2064
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	1998
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.13
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D ), pc/mi/ln	5.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	253	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.82
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS/ Multilane	Highway Report	
<b>Project Information</b>			
Analyst	PJV	Date	5/15/2023
Agency	California Energy Commission	Analysis Year	2020
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	PRE- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
<b>Direction 2 Geometric Data</b>			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	575	Heavy Vehicle Adjustment Factor (fHV)	0.950
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	322
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.16
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	6.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	306	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.92
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С

HCS7 Two-Lane		Highway Report				
Project Information						
Analyst	Carlos Arias		Date		5/15/2023	
Agency	Westwood		Analysis Year		2020	
Jurisdiction	Shasta County		Time Period Anal	yzed	Peak Hour	
Project Description	Fountain Wind Tv e-w E Bound - Alo CA-299E from Olo Trail to Plumas St	ong d Oregon	Unit		United States Customary	
		Segn	nent 1			
Vehicle Inputs						
Segment Type	Passing Zone		Length, ft		22704	
Lane Width, ft	12		Shoulder Width,	ft	6	
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	8.0	
Demand and Capacity						
Directional Demand Flow Rate, veh/h	277		Opposing Demar	nd Flow Rate, veh/h	484	
Peak Hour Factor	0.94		Total Trucks, %		3.76	
Segment Capacity, veh/h 1700		Demand/Capacity	y (D/C)	0.16		
Intermediate Results						
Segment Vertical Class	1		Free-Flow Speed,	mi/h	60.6	
Speed Slope Coefficient	3.71254			efficient	0.48424	
PF Slope Coefficient	-1.26145		PF Power Coefficient		0.76719	
In Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.8	
%Improved % Followers	0.0		% Improved Avg	Speed	0.0	
Subsegment Data						
# Segment Type	Length, ft	Rac	lius, ft Superelevation, %		Average Speed, mi/h	
1 Tangent	22704	-		-	59.0	
Vehicle Results						
Average Speed, mi/h	59.0		Percent Followers	5, %	37.5	
Segment Travel Time, minutes	4.37		Followers Density	, followers/mi/ln	1.8	
Vehicle LOS	А					
		Segn	nent 2			
Vehicle Inputs						
Segment Type	Passing Lanes		Length, ft		99999	
Lane Width, ft	12		Shoulder Width,	ft	6	
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	4.0	
Demand and Capacity					•	

	ctional Demand Flow Rate, veh/h				Opposing Demand Flow Rate, veh/h			-
	Hour Factor	0.94			Total Trucks, %			14.90
Segment Capacity, veh/h 1400					Demand/Capacity (D/C) 0.10			
Inte	ermediate Results							
Segment Vertical Class 1			Free-Flow Speed,	mi/h		61.2		
Spee	d Slope Coefficient	7.28696			Speed Power Coefficient			1.58663
PF SI	pe Coefficient -0.96880			PF Power Coefficie	ent		0.89273	
In Passing Lane Effective Length?			Total Segment Density, veh/mi/ln			0.3		
%Improved % Followers 0.0			% Improved Avg S	Speed	d	0.0		
Sub	segment Data							
#	Segment Type	Leng	gth, ft	Radi	ius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	999	99	-		-		61.2
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow Rate, veh/h 92			46					
Percentage of Heavy Vehicles (HV%), % 5.96			32.90					
Initial Average Speed (Sint), mi/h 61.5						60.6		
Average Speed at Midpoint (SPLmid), mi/h 63.2						58.9		
Percent Followers at Midpoint (PFPLmid), % 11.2						F 7		
		, ,0	11.2				5.7	
Veh	nicle Results	, ,,	11.4				5.7	
	·	61.2			Percent Followers	, %	5.7	15.3
Avera	nicle Results		2		Percent Followers			15.3
Avera Segn	age Speed, mi/h	61.2	2					
Avera Segn	age Speed, mi/h	61.2	2	egm				
Avera Segn Vehic	age Speed, mi/h nent Travel Time, minutes cle LOS	61.2	2	egm	Followers Density			
Avera Segm Vehice	age Speed, mi/h nent Travel Time, minutes cle LOS	61.2 18.5 A	Se	egm	Followers Density			0.3
Avera Segm Vehic	age Speed, mi/h nent Travel Time, minutes cle LOS  sicle Inputs nent Type	61.2 18.5 A	2	egm	Followers Density  nent 3  Length, ft	, follo		
Avera Segn Vehice Veh Segn Lane	age Speed, mi/h nent Travel Time, minutes cle LOS	61.2 18.5 A	Se	egm	Followers Density	, follo	wers/mi/ln	0.3
Vehice  Vehice  Vehice  Vehice  Segnian  Lane  Spee	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type  Width, ft d Limit, mi/h	61.2 18.5 A	Se	egm	Followers Density  nent 3  Length, ft  Shoulder Width, f	, follo	wers/mi/ln	0.3 15105 6
Avera Segm Vehic  Veh Segm Lane Spee	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity	61.2 18.5 A	Se Se Sing Lanes	egm	Followers Density  nent 3  Length, ft  Shoulder Width, f  Access Point Dens	t sity, p	ts/mi	0.3 15105 6
Avera Segm Vehic  Veh Segm Lane Spee Der	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type  Width, ft d Limit, mi/h	61.2 18.5 A Pass 12 55	Se Sing Lanes	egm	Followers Density  nent 3  Length, ft  Shoulder Width, f	t sity, p	ts/mi	0.3 15105 6 4.0
Vehice Vehice Vehice Vehice Segm Lane Spee Der Direce Peak	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity  ctional Demand Flow Rate, veh/h	61.2 18.5 A Pass 12 55	Se Se	egm	Followers Density  nent 3  Length, ft  Shoulder Width, f  Access Point Dens  Opposing Deman	t t	ts/mi w Rate, veh/h	0.3 15105 6 4.0
Avera Segm Vehice Veh Segm Lane Spee Direce Peak Segm	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	61.2 18.5 A Pass 12 55	Se Se	egm	Followers Density  Thent 3  Length, ft  Shoulder Width, for Access Point Density  Opposing Demant Total Trucks, %	t t	ts/mi w Rate, veh/h	0.3 15105 6 4.0
Vehice Vehice Vehice Vehice Vehice Segm Lane Spee Der Direce Peak Segm Inte	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results	61.2 18.5 A  Pass 12 55  144 0.94 140	Se Se	egm	Followers Density  Pent 3  Length, ft  Shoulder Width, ft  Access Point Densi  Opposing Deman  Total Trucks, %  Demand/Capacity	t t d Floor	ts/mi w Rate, veh/h	0.3  15105  6  4.0  -  14.90  0.10
Vehice Vehice Vehice Vehice Vehice Segn Lane Spee Der Direce Peak Segn Inte	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class	61.2   18.5   A   Pass   12   55   144   0.94   140   1	Se S	egm	Followers Density  Thent 3  Length, ft  Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, %  Demand/Capacity  Free-Flow Speed,	t t d Floor	ts/mi w Rate, veh/h	0.3 15105 6 4.0 - 14.90 0.10
Vehice Vehice Vehice Vehice Vehice Segn Lane Spee Der Direct Peak Segn Inte	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class d Slope Coefficient	61.2   18.5   A   Pass   12   55   144   0.94   140   1   7.24	Sessing Lanes	egm	Followers Density  Pent 3  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Deman  Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe	t t sity, p d Flo	ts/mi w Rate, veh/h	0.3  15105  6  4.0  - 14.90  0.10  61.2  1.54401
Vehice Vehice Vehice Vehice Vehice Segm Lane Spee Der Direct Peak Segm Inte Segm Spee PF SI	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class	61.2   18.5   A   Pass   12   55   144   0.94   140   1   7.24	Se S	egm	Followers Density  Thent 3  Length, ft  Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, %  Demand/Capacity  Free-Flow Speed,	t t sity, p d Flor	ts/mi w Rate, veh/h	0.3  15105 6 4.0  - 14.90 0.10

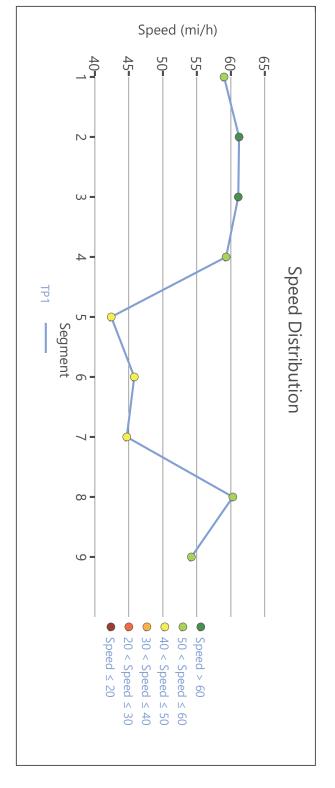
Subsegment Data								
# Segment Type	Len	gth, ft		Radius,	ft	Superelev	vation, %	Average Speed, mi/h
1 Tangent	151	05		-		-		61.1
Passing Lane Results								·
		Faster Lane				Slow	er Lane	
Flow Rate, veh/h		96			48			
Percentage of Heavy Vehicles (HV%	), %	5.96				32.7	2	
Initial Average Speed (Sint), mi/h		61.5				60.6		
Average Speed at Midpoint (SPLmid), mi/h 63.2				58.9				
Percent Followers at Midpoint (PFPLmid), % 11.5					5.8			
Vehicle Results								
Average Speed, mi/h	61.1	1		Pe	rcent Followers	5, %		15.6
Segment Travel Time, minutes	2.8	1		Fo	Followers Density, followers/mi/ln			0.4
Vehicle LOS	А							
			Se	egmei	nt 4			
Vehicle Inputs								
Segment Type	Pas	sing Zone		Le	ngth, ft			35904
Lane Width, ft	12	12		Sh	oulder Width, f	t		6
Speed Limit, mi/h	55	55		Ac	cess Point Den	sity, pts/mi		6.0
Demand and Capacity								
Directional Demand Flow Rate, veh,	′h 144			Op	posing Demar	nd Flow Rate	e, veh/h	144
Peak Hour Factor	0.94	1		To	Total Trucks, %			14.90
Segment Capacity, veh/h	170	0		De	Demand/Capacity (D/C)			0.08
Intermediate Results								
Segment Vertical Class	2			Fre	ee-Flow Speed,	mi/h		59.8
Speed Slope Coefficient	4.53	3356		Sp	Speed Power Coefficient			0.66486
PF Slope Coefficient	-1.1	7419		PF	PF Power Coefficient			0.79683
In Passing Lane Effective Length?	Yes			To	Total Segment Density, veh/mi/ln			0.5
%Improved % Followers	9.4			%	Improved Avg	Speed		0.0
Subsegment Data								
# Segment Type	Len	gth, ft		Radius,	ft	Superelev	ation, %	Average Speed, mi/h
1 Tangent	359	04		-		-		59.3
Vehicle Results								
Average Speed, mi/h	59.3	3		Pe	rcent Followers	5, %		22.1
Segment Travel Time, minutes	6.89	)		Fo	llowers Density	, followers/	mi/ln	0.5
Vehicle LOS	А							
			So	egmei	nt 5			

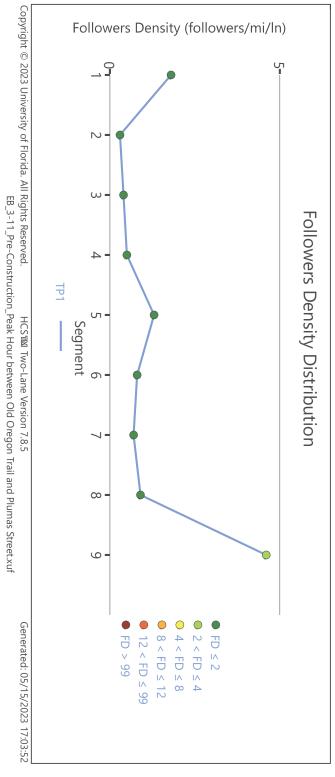
Veh	nicle Inputs							
Segr	nent Type	Passing Zone		Length, ft		12144		
	sured FFS	Measured			Free-Flow Speed, mi/h 47.0			
Der	mand and Capacity	<u> </u>				<u>'</u>		
Dire	ctional Demand Flow Rate, veh/h	179		Opposing Demand	d Flow Rate, veh/h	179		
Peak	Hour Factor	0.94		Total Trucks, %		31.00		
Segr	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.11		
Inte	ermediate Results					<u>'</u>		
Segr	nent Vertical Class	4		Free-Flow Speed,	mi/h	47.0		
Spee	d Slope Coefficient	nt 30.47189			fficient	0.74794		
PF SI	ope Coefficient	-1.43469		PF Power Coefficie	ent	0.80690		
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	1.3		
%lm	proved % Followers	7.2		% Improved Avg S	Speed	0.0		
Suk	segment Data							
#	Segment Type	Length, ft Rad		adius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent 12144 -			-	42.4			
Veh	icle Results	<u>'</u>				<u>'</u>		
Average Speed, mi/h 42.4			Percent Followers,	%	30.1			
Segment Travel Time, minutes 3.25		Followers Density,	followers/mi/ln	1.2				
Vehi	cle LOS	А						
			Seg	ment 6				
Veh	nicle Inputs							
Segr	nent Type	Passing Lanes		Length, ft		25872		
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	46.0		
Der	mand and Capacity							
Direc	ctional Demand Flow Rate, veh/h	179		Opposing Demand	d Flow Rate, veh/h	-		
Peak	Hour Factor	0.94		Total Trucks, %		31.00		
Segr	nent Capacity, veh/h	1100		Demand/Capacity	(D/C)	0.16		
Inte	ermediate Results					<u>'</u>		
Segr	nent Vertical Class	2		Free-Flow Speed,	mi/h	46.0		
	ed Slope Coefficient	12.22850		Speed Power Coef		1.55917		
· ·	ope Coefficient	-0.91332		PF Power Coefficie		0.77795		
	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.8		
		0.0		% Improved Avg S		0.0		
·				1		<u>'</u>		
Subsegment Data								
Suk #	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h		

Passing Lane Results							
		Faster Lane				Slower Lane	
Flow Rate, veh/h		115		63			
Percentage of Heavy Vehicles (HVS	%), %	12.40		64.76			
Initial Average Speed (Sint), mi/h		74.4				63.6	
Average Speed at Midpoint (SPLm	t (SPLmid), mi/h 76.5						
Percent Followers at Midpoint (PFF	PLmid), %	8.8		0.0			
Vehicle Results							
Average Speed, mi/h	45.8	3		Percent Follow	ers, %		21.3
Segment Travel Time, minutes	6.42	2		Followers Dens	ity, follo	owers/mi/ln	0.8
Vehicle LOS	А						
			Segn	nent 7			
Vehicle Inputs							
Segment Type	Pas	sing Lanes		Length, ft			30624
Measured FFS	Me	asured		Free-Flow Spee	ed, mi/h		47.0
Demand and Capacity				'			<u>'</u>
Directional Demand Flow Rate, veh/h 213			Opposing Dem	and Flo	w Rate, veh/h	-	
Peak Hour Factor	0.94			Total Trucks, %			30.00
Segment Capacity, veh/h			Demand/Capa	city (D/0	C)	0.19	
Intermediate Results							
Segment Vertical Class	4			Free-Flow Spee	ed, mi/h		47.0
Speed Slope Coefficient	28.7	73583		Speed Power Coefficient			1.16507
PF Slope Coefficient	-0.8	32245		PF Power Coefficient			1.06542
In Passing Lane Effective Length?	No			Total Segment Density, veh/mi/ln			0.7
%Improved % Followers	0.0			% Improved Avg Speed			0.0
Subsegment Data							
# Segment Type	Len	gth, ft	Rac	dius, ft	Sup	perelevation, %	Average Speed, mi/h
1 Tangent	306	24	-		1-		44.7
Passing Lane Results							
		Faster Lane				Slower Lane	
Flow Rate, veh/h		135				78	
Percentage of Heavy Vehicles (HVS	%), %	12.00				61.11	
Initial Average Speed (Sint), mi/h		72.7				55.9	
Average Speed at Midpoint (SPLm	id), mi/h	74.7				53.9	
Percent Followers at Midpoint (PFF	PLmid), %	11.0				-	
Vehicle Results							
Average Speed, mi/h	44.7	7		Percent Follow	ers, %		14.6

Sean	nent Travel Time, minutes	7.78		Followers Density,	followers/mi/ln	0.7	
	ile LOS	Α		. J.			
			adm	ant 2			
Segment 8							
Veh	icle Inputs						
Segn	nent Type	Passing Zone		Length, ft		7392	
Lane	Width, ft	12		Shoulder Width, f	t	6	
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	5.0	
Demand and Capacity							
Direc	tional Demand Flow Rate, veh/h	191		Opposing Deman	d Flow Rate, veh/h	197	
Peak	Hour Factor	0.94		Total Trucks, %		17.50	
Segm	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.11	
Inte	ermediate Results						
Segment Vertical Class 1				Free-Flow Speed,	mi/h	60.9	
Spee	d Slope Coefficient	3.62198		Speed Power Coe	fficient	0.54015	
PF SI	ope Coefficient	-1.19891		PF Power Coefficient		0.80879	
In Pa	assing Lane Effective Length? Yes			Total Segment De	nsity, veh/mi/ln	0.9	
%Improved % Followers 14.0			% Improved Avg S	Speed	0.6		
Sub	segment Data						
#	Segment Type	Length, ft Rac		ius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	7392	-	-		59.9	
Veh	icle Results	<u>'</u>					
Avera	age Speed, mi/h	60.3		Percent Followers,		27.0	
Segn	nent Travel Time, minutes	1.39		Followers Density,	, followers/mi/ln	0.7	
Vehic	ile LOS	A					
		Se	eam	nent 9			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tala fa a d		9				
	icle Inputs						
	nent Type	Passing Constrained		Length, ft		2640	
	Width, ft	12		Shoulder Width, f		6	
Speed Limit, mi/h 55		55		Access Point Dens	sity, pts/mi	22.0	
-500							
	nand and Capacity						
Den	tional Demand Flow Rate, veh/h	463		Opposing Deman	d Flow Rate, veh/h	-	
Den		463 0.94		Opposing Demand	d Flow Rate, veh/h	19.00	
<b>Den</b> Direct Peak	tional Demand Flow Rate, veh/h						
Den Direc Peak Segm	tional Demand Flow Rate, veh/h Hour Factor	0.94		Total Trucks, %		19.00	
Den Direct Peak Segm	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	0.94		Total Trucks, %	(D/C)	19.00	
Den Direct Peak Segm Inte	Hour Factor hent Capacity, veh/h  ermediate Results	0.94		Total Trucks, %  Demand/Capacity	mi/h	19.00	

			С	Vehicle LOS
4.1	followers/mi/ln	Followers Density, followers/mi/ln	0.55	Segment Travel Time, minutes
53.6	%	Percent Followers, %	54.2	Average Speed, mi/h
				Vehicle Results
54.2	-		2640 -	1 Tangent
Average Speed, mi/h	Superelevation, %	Radius, ft	Length, ft Ra	# Segment Type
				Subsegment Data
0.0	peed	% Improved Avg Speed	10.7	%Improved % Followers
4.6	nsity, veh/mi/ln	Total Segment Density, veh/mi/ln	Yes	In Passing Lane Effective Length?





Project Information						
Analyst	Carlos Arias	Date		4/12/2023		
Agency	Westwood	Analysis Y	ear	2020		
Jurisdiction	Shasta County	Time Perio	od Analyzed	Peak Hour		
Project Description	Fountain Wind Two L e-w _ West Bound - A CA-299E from Old Or Trail to Plumas Street	along regon		United States Customary		
	S	Segment 1				
Vehicle Inputs						
Segment Type	Passing Constrained	Length, ft		2640		
Lane Width, ft	12	Shoulder '	Width, ft	6		
Speed Limit, mi/h	55	Access Po	int Density, pts/mi	22.0		
Demand and Capacity	·	·				
Directional Demand Flow Rate, v	eh/h 191	Opposing	Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucl	<s, %<="" td=""><td>19.00</td></s,>	19.00		
Segment Capacity, veh/h	Segment Capacity, veh/h 1700		Capacity (D/C)	0.11		
Intermediate Results		·		·		
Segment Vertical Class 2		Free-Flow	Speed, mi/h	55.5		
Speed Slope Coefficient	3.88683	Speed Pov	ver Coefficient	0.44359		
PF Slope Coefficient	-1.43208	PF Power	Coefficient	0.73380		
In Passing Lane Effective Length?	No	Total Segr	nent Density, veh/mi/ln	1.2		
%Improved % Followers	0.0	% Improv	ed Avg Speed	0.0		
Subsegment Data						
# Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1 Tangent	2640	-	-	54.2		
Vehicle Results						
Average Speed, mi/h	54.2	Percent Fo	ollowers, %	34.7		
Segment Travel Time, minutes	0.55	Followers	Density, followers/mi/ln	1.2		
Vehicle LOS	А					
	S	Segment 2				
Vehicle Inputs						
Segment Type	Passing Zone	Length, ft		7392		
Lane Width, ft	12	Shoulder '	Width, ft	6		
Speed Limit, mi/h	55			5.0		
Demand and Capacity			Access Point Density, pts/mi 5.0			

Directional Demand Flow Rate, veh/h	197		Opposing Deman	d Flow Rate, veh/h	191		
Peak Hour Factor	0.94	-		a riew rate, veri, ii	17.50		
Segment Capacity, veh/h	1700		Total Trucks, %  Demand/Capacity	/ (D/C)	0.12		
Intermediate Results			Demand, capacity (D/C)				
Segment Vertical Class	1		Free-Flow Speed,	mi/h	60.9		
Speed Slope Coefficient	3.62000		Speed Power Coe		0.54167		
<u> </u>	-1.19762		PF Power Coefficie				
PF Slope Coefficient					0.80923		
In Passing Lane Effective Length?			Total Segment De		0.9		
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0		
Subsegment Data							
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h		
1 Tangent	7392	-		-	59.8		
Vehicle Results							
Average Speed, mi/h	erage Speed, mi/h 59.8		Percent Followers	, %	27.5		
Segment Travel Time, minutes	nent Travel Time, minutes 1.40		Followers Density	, followers/mi/ln	0.9		
Vehicle LOS	А						
		Segn	nent 3				
Vehicle Inputs							
Segment Type	Passing Zone		Length, ft		30624		
Measured FFS	Measured	-		mi/h	47.0		
Demand and Capacity					·		
Directional Demand Flow Rate, veh/h	213		Opposing Deman	d Flow Rate, veh/h	213		
Peak Hour Factor	0.94		Total Trucks, %		30.00		
Segment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.13		
Intermediate Results	<u> </u>		<u>'</u>				
Segment Vertical Class	4		Free-Flow Speed, mi/h		47.0		
Speed Slope Coefficient	30.13295		Speed Power Coe	fficient	0.73099		
PF Slope Coefficient	-1.45615		PF Power Coefficie	ent	0.80231		
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.8		
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0		
Subsegment Data			<u>'</u>		<u>'</u>		
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h		
1 Tangent	30624	-		-	40.9		
Vehicle Results							
Average Speed, mi/h	40.9		Percent Followers	, %	34.3		
Segment Travel Time, minutes	8.51		Followers Density		1.8		
<u>-</u> , , , , , , , , , , , , , , , , , , ,	8.51   A		1	· · ·	1		

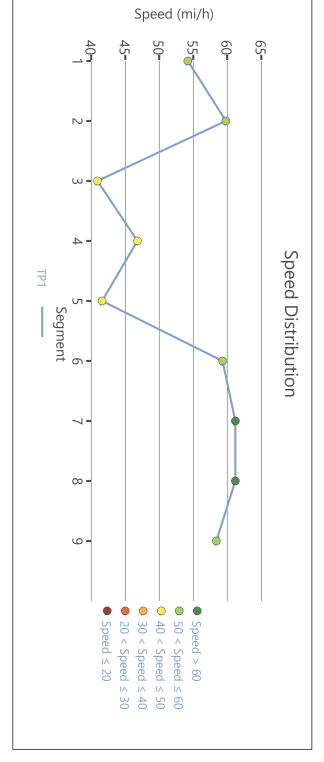
			Se	egn	ment 4			
Vel	hicle Inputs							
Seg	ment Type	Pass	sing Lanes		Length, ft			25872
Mea	asured FFS	Mea	asured		Free-Flow Speed, mi/h			47.0
De	mand and Capacity							·
Dire	ectional Demand Flow Rate, veh/h	179			Opposing Demand Flow Rate, veh/h			-
Peal	k Hour Factor	0.94	1		Total Trucks, %			31.00
Seg	ment Capacity, veh/h	110	0		Demand/Capacity (D/C)			0.16
Int	termediate Results							
Seg	ment Vertical Class	2			Free-Flow Speed, 1	mi/h		47.0
Spe	ed Slope Coefficient	12.2	22850		Speed Power Coefficient			1.55917
PF S	Slope Coefficient	-0.9	1061		PF Power Coefficient			0.78832
In Passing Lane Effective Length? No			Total Segment Density, veh/mi/ln		0.8			
%Improved % Followers 0.0			% Improved Avg Speed			0.0		
Su	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	258	72	-	-			46.8
Pas	ssing Lane Results		Factor Land				Claurer Lang	
Elov	w Rate, veh/h		Faster Lane		Slower Lane			
	centage of Heavy Vehicles (HV%), %		12.40		63			
	al Average Speed (Sint), mi/h		74.4		64.76 63.6			
	rage Speed at Midpoint (SPLmid), mi,	/h	76.5		63.6			
	cent Followers at Midpoint (PFPLmid),		8.8		0.0			
	hicle Results							
Ave	rage Speed, mi/h	46.8	3		Percent Followers,	%		20.9
	ment Travel Time, minutes	6.29	)		Followers Density,	follo	owers/mi/ln	0.8
Veh	icle LOS	А						
			Se	gn	nent 5			
Vel	hicle Inputs							
	ment Type	Pass	sing Zone		Length, ft			12144
	asured FFS	-	asured		Free-Flow Speed, 1	mi/h		46.0
De	mand and Capacity							
	ectional Demand Flow Rate, veh/h	179			Opposing Demand	d Flo	w Rate, veh/h	179
	k Hour Factor	0.94			Total Trucks, %			31.00
Sea	ment Capacity, veh/h	170	0		Demand/Capacity	(D/0	2)	0.11

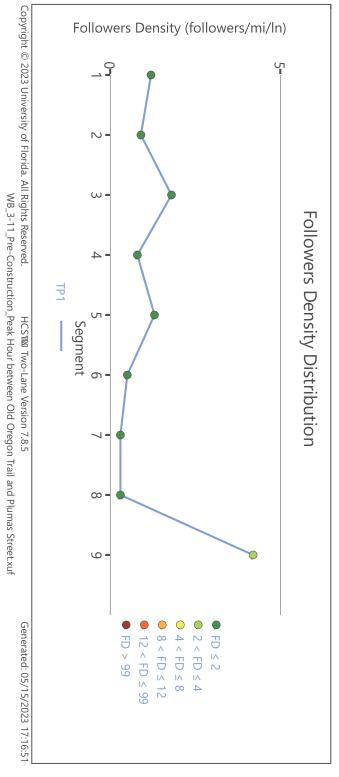
Co-	mont Vertical Class			Eroo Flanco	d mi/h	46.0	
	ment Vertical Class	4		Free-Flow Spee			
	ed Slope Coefficient	30.47189		Speed Power C		0.74794	
	Slope Coefficient	-1.43570		PF Power Coeff		0.80084	
	n Passing Lane Effective Length? Yes 6Improved % Followers 13.9			-	Density, veh/mi/ln	1.3	
	·	13.9		% Improved Av	g Speed	0.5	
Su	bsegment Data						
#	Segment Type	Length, ft		Radius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent 12144			-	-	41.4	
Vel	hicle Results						
Ave	rage Speed, mi/h	41.6		Percent Followe	ers, %	30.3	
Segment Travel Time, minutes 3.31				Followers Dens	1.1		
Veh	icle LOS	A	A				
			Seg	gment 6			
Vel	hicle Inputs						
Seg	egment Type Passing Zone			Length, ft		35904	
Lane	e Width, ft	12		Shoulder Width	, ft	6	
Spe	ed Limit, mi/h	55		Access Point De	ensity, pts/mi	6.0	
De	mand and Capacity						
Dire	ectional Demand Flow Rate, veh/h	144		Opposing Dem	and Flow Rate, veh/h	144	
Peal	k Hour Factor	0.94		Total Trucks, %		14.90	
Seg	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.08	
Int	ermediate Results						
Seg	ment Vertical Class	2		Free-Flow Spee	d, mi/h	59.8	
Spe	ed Slope Coefficient	4.53356		Speed Power C	pefficient	0.66486	
PF S	lope Coefficient	-1.17419		PF Power Coeff	cient	0.79683	
In P	assing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	0.5	
%lm	nproved % Followers	8.5		% Improved Av	% Improved Avg Speed		
Su	bsegment Data						
#	Segment Type	Length, ft		Radius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	35904		-	-	59.3	
Vel	hicle Results						
	rage Speed, mi/h	59.3		Percent Follows	ers, %	22.1	
3 1				Followers Dens	ty, followers/mi/ln	0.5	
	Segment Travel Time, minutes 6.89  Vehicle LOS A						

Vel	nicle Inputs							
Segr	ment Type	Pass	sing Lanes		Length, ft			15105
	e Width, ft	12			Shoulder Width, ft			6
Spee	ed Limit, mi/h	55			Access Point Density, pts/mi			4.0
Dei	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	138			Opposing Demand	d Flo	w Rate, veh/h	-
Peak	Hour Factor	0.94	ļ		Total Trucks, %			14.90
Segr	ment Capacity, veh/h	140	0		Demand/Capacity	(D/C	<u></u>	0.10
Inte	ermediate Results							
Segr	ment Vertical Class	1			Free-Flow Speed,	mi/h		61.2
Spee	ed Slope Coefficient	7.24			Speed Power Coef	fficie	nt	1.54401
	lope Coefficient	-0.9	6855		PF Power Coefficie			0.89690
In Pa	assing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	0.3
%Improved % Followers 0.0					% Improved Avg S	Speed	t l	0.0
Suk	osegment Data							
#	Segment Type	Len	gth, ft	Rad	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	15105 -			-		61.2	
Pas	ssing Lane Results							<u>'</u>
			Faster Lane				Slower Lane	
Flow	/ Rate, veh/h		92				46	
Perc	entage of Heavy Vehicles (HV%), %		5.96				32.90	
Initia	al Average Speed (Sint), mi/h		61.5				60.6	
Aver	rage Speed at Midpoint (SPLmid), mi/	'h	63.2				58.9	
Perc	ent Followers at Midpoint (PFPLmid),	%	11.1				5.6	
Vel	nicle Results							
Aver	rage Speed, mi/h	61.2	)		Percent Followers,	%		15.1
Segr	ment Travel Time, minutes	2.81			Followers Density,	follo	wers/mi/ln	0.3
Vehi	cle LOS	А						
			Se	gn	nent 8			
Vel	nicle Inputs							
	ment Type	Pass	sing Lanes		Length, ft			99999
	e Width, ft	12			Shoulder Width, ft	i		6
Spee	ed Limit, mi/h	55			Access Point Dens	ity, p	ts/mi	4.0
Dei	mand and Capacity							
	ctional Demand Flow Rate, veh/h	138			Opposing Demand	d Flo	w Rate, veh/h	-
	Hour Factor	0.94			Total Trucks, %			14.90
Sear	ment Capacity, veh/h	140			Demand/Capacity	(D/C	.)	0.10

Into	ermediate Results								
		Ι.			I			1	
	nent Vertical Class	1			Free-Flow Speed,			61.2	
•	d Slope Coefficient		3696 ———————		Speed Power Coefficient			1.58663	
	PF Slope Coefficient -0.96880				PF Power Coefficient			0.89273	
	n Passing Lane Effective Length? No				Total Segment Density, veh/mi/ln			0.3	
%lmp	proved % Followers	0.0			% Improved Avg Speed 0.0				
Sub	segment Data								
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h	
1	Tangent	99999 -		-		61.2			
Pass	sing Lane Results								
			Faster Lane				Slower Lane		
Flow	Rate, veh/h		92		46				
Perce	entage of Heavy Vehicles (HV%), %		5.96				32.90		
Initia	l Average Speed (Sint), mi/h		61.5				60.6		
Avera	age Speed at Midpoint (SPLmid), mi	/h	63.2	63.2			58.9		
Percent Followers at Midpoint (PFPLmid), %			11.2				5.7		
Veh	icle Results								
Average Speed, mi/h 61.2			2		Percent Followers	, %		15.3	
Segm	nent Travel Time, minutes	18.5	3.58		Followers Density, followers/mi/ln		wers/mi/ln	0.3	
Vehic	ile LOS	А							
			Se	egn	nent 9				
Veh	icle Inputs								
Segn	nent Type	Pass	sing Zone		Length, ft			22704	
Lane	Width, ft	12			Shoulder Width, f	t		6	
Spee	d Limit, mi/h	55			Access Point Density, pts/mi			8.0	
Den	nand and Capacity								
Direc	tional Demand Flow Rate, veh/h	484			Opposing Deman	d Flo	w Rate, veh/h	277	
Peak	Hour Factor	0.94	1		Total Trucks, %			3.76	
Segm	nent Capacity, veh/h	170	0		Demand/Capacity	/ (D/C	<u> </u>	0.28	
Inte	ermediate Results								
Segn	nent Vertical Class	1			Free-Flow Speed,	mi/h		60.6	
Spee	d Slope Coefficient	3.65	5687		Speed Power Coe	fficie	nt	0.52021	
PF SI	ope Coefficient	-1.2	3195		PF Power Coefficie	ent		0.77833	
In Pa	ssing Lane Effective Length?	Yes			Total Segment De	nsity,	veh/mi/ln	4.2	
%lmp	proved % Followers	4.9			% Improved Avg	Speed	b	0.0	
Sub	segment Data							·	
Subsegment Data									

1 Tangent	22704 -	•	58.4
Vehicle Results			
Average Speed, mi/h	58.4	Percent Followers, %	50.4
Segment Travel Time, minutes	4.42	Followers Density, followers/mi/ln	4.0
Vehicle LOS	В		





	HCS7 Multilane	Highway Report	
<b>Project Information</b>			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2025
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
<b>Direction 1 Geometric Data</b>			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 1 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		
Volume(V) veh/h	666	Heavy Vehicle Adjustment Factor (fHV)	0.942
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	376
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.19
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	7.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	354	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.43
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2025
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
<b>Direction 2 Geometric Data</b>			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	1160	Heavy Vehicle Adjustment Factor (fHV)	0.936
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	659
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.33
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	12.3
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	В
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	617	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.71
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2025
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
<b>Direction 1 Geometric Data</b>			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	1.70
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	5
Median Type	Divided	Total Lateral Clearance (TLC), ft	11
Free-Flow Speed (FFS), mi/h	54.6		
Direction 1 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		
Volume(V) veh/h	566	Heavy Vehicle Adjustment Factor (fHV)	0.951
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	316
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2064
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	1998
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.16
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D ), pc/mi/ln	5.9
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	301	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.91
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2025
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
<b>Direction 2 Geometric Data</b>			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	635	Heavy Vehicle Adjustment Factor (fHV)	0.950
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	356
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.18
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	6.6
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	338	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.97
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Two	-Lane	Highway R	eport	
<b>Project Information</b>					
Analyst	Carlos Arias		Date		6/9/2023
Agency	Westwood		Analysis Year		2025
Jurisdiction	Shasta County		Time Period Anal	yzed	Peak Hour
Project Description	Fountain Wind Tv e-w E Bound - Al CA-299E from Ol Trail to Plumas St	ong d Oregon	Unit		United States Customary
		Segn	nent 1		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		22704
Lane Width, ft	12		Shoulder Width, 1	ft	6
Speed Limit, mi/h	55	55		sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/	h 373		Opposing Demar	nd Flow Rate, veh/h	548
Peak Hour Factor	0.94	0.94			3.76
Segment Capacity, veh/h	1700	1700		y (D/C)	0.22
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	60.6
Speed Slope Coefficient	3.72711		Speed Power Coe	efficient	0.47597
PF Slope Coefficient	-1.26788		PF Power Coeffici	ent	0.76437
In Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.9
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	22704	-		-	58.6
Vehicle Results					
Average Speed, mi/h	58.6		Percent Followers	5, %	45.0
Segment Travel Time, minutes	4.41		Followers Density	, followers/mi/ln	2.9
Vehicle LOS	В				
		Segn	nent 2		
Vehicle Inputs					
Segment Type	Passing Lanes		Length, ft		99999
Lane Width, ft	12		Shoulder Width, f	ft	6
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	4.0
Demand and Capacity					·

						1 =1			
	ctional Demand Flow Rate, veh/h	235			Opposing Demand	d Flov	w Rate, veh/h	-	
	Hour Factor	0.94			Total Trucks, %			14.90	
Segr	ment Capacity, veh/h	140	0		Demand/Capacity	(D/C	)	0.17	
Into	ermediate Results								
Segment Vertical Class 1				Free-Flow Speed, mi/h			61.2		
Spee	Speed Slope Coefficient 7.28696				Speed Power Coef	fficier	nt	1.58663	
PF S	F Slope Coefficient -0.96880				PF Power Coefficient			0.89273	
In Pa	assing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	0.9	
%lm	proved % Followers	0.0			% Improved Avg S	Speed	l	0.0	
Suk	osegment Data								
#	Segment Type	Len	gth, ft	Radio	us, ft	Sup	erelevation, %	Average Speed, mi/h	
1	Tangent	999	99	-		-		60.9	
Pas	ssing Lane Results								
			Faster Lane				Slower Lane		
Flow	/ Rate, veh/h		150				85		
Percentage of Heavy Vehicles (HV%), % 5.96							30.60		
Initial Average Speed (Sint), mi/h 61.5			61.5	60.7					
Average Speed at Midpoint (SPLmid), mi/h 63.2			63.2	2 59.0					
Perc	ent Followers at Midpoint (PFPLmid)	, %	16.8 10.0						
Vel	nicle Results								
Aver	rage Speed, mi/h	60.9	)		Percent Followers,	0/		22.4	
					Percent Followers,	, %		23.4	
Segr	ment Travel Time, minutes	18.6	56		Followers Density,		wers/mi/ln	0.9	
	3 1	18.6	56				wers/mi/ln		
	ment Travel Time, minutes				Followers Density,		wers/mi/ln		
Vehi	ment Travel Time, minutes						wers/mi/ln		
Vehi	ment Travel Time, minutes cle LOS  nicle Inputs	A	Se	egm	Followers Density,		wers/mi/ln	0.9	
Vehi Veh	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type	Pass		egm	Followers Density,  ent 3  Length, ft	, follo	wers/mi/ln	15105	
Vehi-	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  e Width, ft	Pass	Se	egm	Followers Density,  Tent 3  Length, ft  Shoulder Width, ft	, follo		0.9 15105 6	
Vehi Veh Segr Lane	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  Width, ft  ed Limit, mi/h	Pass	Se	egm	Followers Density,  ent 3  Length, ft	, follo		15105	
Vehice Vehice Vehice Segritude Lane Special Dei	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  e Width, ft  ed Limit, mi/h  mand and Capacity	Pass 12 55	Sesing Lanes	egm	Followers Density,  ent 3  Length, ft  Shoulder Width, ft  Access Point Dens	t sity, p	ts/mi	0.9 15105 6	
Vehicle Vehicl	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h	Pass 12 55 235	Sessing Lanes	egm	Followers Density,  ent 3  Length, ft Shoulder Width, ft Access Point Dens  Opposing Demand	t sity, p	ts/mi	0.9 15105 6 4.0	
Vehing Ve	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  & Hour Factor	Pass 12 55 235 0.94	Sessing Lanes	egm	Followers Density,  Length, ft Shoulder Width, ft Access Point Dens  Opposing Demand	t t d Flow	ts/mi w Rate, veh/h	0.9 15105 6 4.0	
Vehing Ve	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h	Pass 12 55 235	Sessing Lanes	egm	Followers Density,  ent 3  Length, ft Shoulder Width, ft Access Point Dens  Opposing Demand	t t d Flow	ts/mi w Rate, veh/h	0.9 15105 6 4.0	
Vehical Vehica	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  & Hour Factor	Pass 12 55 235 0.94	Sessing Lanes	egm	Followers Density,  Length, ft Shoulder Width, ft Access Point Dens  Opposing Demand	t t d Flow	ts/mi w Rate, veh/h	0.9 15105 6 4.0	
Vehical Vehica	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  a Hour Factor  ment Capacity, veh/h	Pass 12 55 235 0.94	Sessing Lanes	egm	Followers Density,  Length, ft Shoulder Width, ft Access Point Dens  Opposing Demand	t t dd Flov	ts/mi w Rate, veh/h	0.9 15105 6 4.0	
Vehical Vehica	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  a Hour Factor  ment Capacity, veh/h  ermediate Results	Pass 12 55 235 0.94 140	Sessing Lanes	egm	Followers Density,  Pent 3  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Demand  Total Trucks, %  Demand/Capacity	t t d Flow	ts/mi w Rate, veh/h	0.9 15105 6 4.0 - 14.90 0.17	
Vehicle Vehicle Vehicle Segriture Peak Segriture Segritu	ment Travel Time, minutes  cle LOS  nicle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  a Hour Factor  ment Capacity, veh/h  ermediate Results  ment Vertical Class	Pass 12 55 235 0.94 140	sing Lanes	egm	Followers Density,  Length, ft Shoulder Width, ft Access Point Dens  Opposing Demand Total Trucks, % Demand/Capacity  Free-Flow Speed,	t t t dd Flow	ts/mi w Rate, veh/h	0.9 15105 6 4.0 - 14.90 0.17	
Vehicle Vehicle Segriture Speed Der Peak Segriture Segri	ment Travel Time, minutes  cle LOS  micle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  A Hour Factor  ment Capacity, veh/h  ermediate Results  ment Vertical Class  ed Slope Coefficient	Pass 12 55 235 0.94 140	sing Lanes  4 0	egm	Followers Density,  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Demand  Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coef	t t  tity, p  d Flov  (D/C	ts/mi w Rate, veh/h	0.9 15105 6 4.0 - 14.90 0.17 61.2 1.54401	

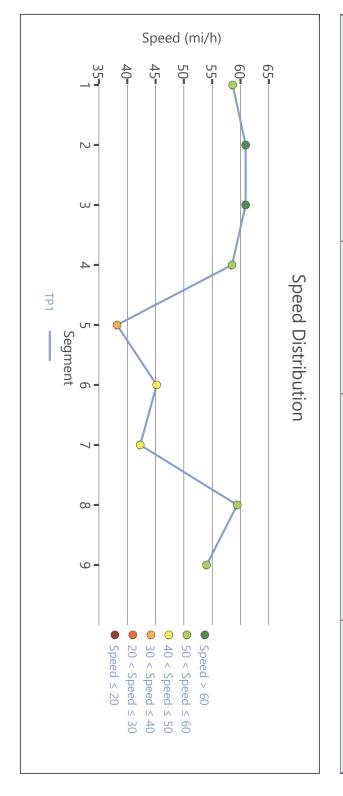
Suk	segment Data								
#	Segment Type	Leng	th, ft		Radi	ius, ft	Su	ıperelevation, %	Average Speed, mi/h
1	Tangent	1510	5		-		-		60.9
Pas	sing Lane Results								'
			Faster Lane					Slower Lane	
Flow	Rate, veh/h		150					85	
Perc	entage of Heavy Vehicles (HV%), %		5.96					30.60	
Initia	al Average Speed (Sint), mi/h		61.5					60.7	
Aver	age Speed at Midpoint (SPLmid), m	ni/h	63.2					59.0	
Perc	ent Followers at Midpoint (PFPLmic	d), %	16.7					9.9	
Vel	nicle Results								
Aver	age Speed, mi/h	60.9				Percent Follow	ers, %		23.2
Segr	ment Travel Time, minutes	2.82				Followers Dens	ity, fol	lowers/mi/ln	0.9
Vehicle LOS A									
				Se	egm	ent 4			
Vel	nicle Inputs								
Segr	ment Type	Passi	ing Zone			Length, ft			35904
Lane	Width, ft	12				Shoulder Width, ft		6	
Spee	ed Limit, mi/h	55		Access Point Density, pts/mi		6.0			
Dei	mand and Capacity								
Dire	ctional Demand Flow Rate, veh/h	240				Opposing Dem	and Fl	ow Rate, veh/h	207
Peak	Hour Factor	0.94				Total Trucks, %			14.90
Segr	nent Capacity, veh/h	1700	)			Demand/Capac	ity (D,	/C)	0.14
Into	ermediate Results								
Segr	ment Vertical Class	2				Free-Flow Spee	d, mi/	h	59.8
Spee	ed Slope Coefficient	4.584	482			Speed Power C	oeffici	ent	0.64081
PF S	lope Coefficient	-1.19	9424			PF Power Coeff	icient		0.79047
In Pa	ssing Lane Effective Length?	Yes				Total Segment	Densit	y, veh/mi/ln	1.3
%lm	proved % Followers	8.4				% Improved Av	g Spe	ed	0.0
Suk	osegment Data								
#	Segment Type	Leng	th, ft		Radi	ius, ft	Su	perelevation, %	Average Speed, mi/h
1	Tangent	3590	4		-		-		58.5
Vel	nicle Results								
Aver	age Speed, mi/h	58.5				Percent Follow	ers, %		32.1
	ment Travel Time, minutes	6.97				Followers Dens	ity, fol	lowers/mi/ln	1.2
Segr	Segment Travel Time, minutes 6.97  Vehicle LOS A								

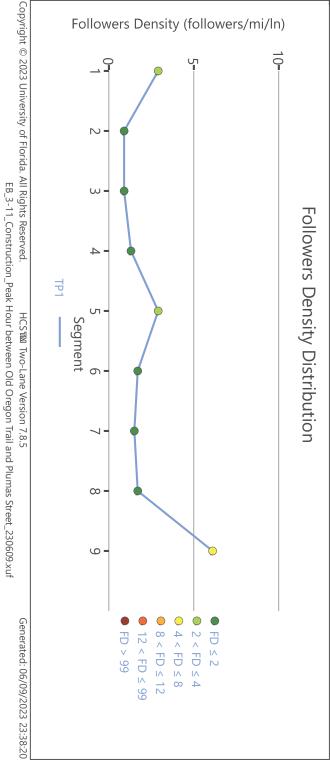
Vel	nicle Inputs						
	ment Type	Passing Zone		Length, ft		12144	
Mea	sured FFS	Measured		Free-Flow Speed,	Free-Flow Speed, mi/h		
Dei	mand and Capacity			<u>'</u>			
Dire	ctional Demand Flow Rate, veh/h	276		Opposing Demand	d Flow Rate, veh/h	243	
Peak	Hour Factor	0.94		Total Trucks, %		31.00	
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.16	
Int	ermediate Results			<u>'</u>			
Segr	ment Vertical Class	4		Free-Flow Speed,	mi/h	47.0	
Spee	ed Slope Coefficient	30.59918		Speed Power Coef	fficient	0.71659	
· ·		-1.47032			ent	0.80180	
In Pa	assing Lane Effective Length?	Yes		Total Segment De	Total Segment Density, veh/mi/ln		
%Improved % Followers 6.2			% Improved Avg S	Speed	0.0		
Sul	osegment Data						
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	12144	-		-	38.2	
Vel	nicle Results					<u>'</u>	
Aver	rage Speed, mi/h	38.2		Percent Followers,	%	40.7	
Segment Travel Time, minutes 3.61		3.61	3.61		followers/mi/ln	2.8	
Vehi	cle LOS	В					
			Segi	ment 6			
Vel	nicle Inputs						
Segr	ment Type	Passing Lanes		Length, ft		25872	
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	46.0	
Dei	mand and Capacity	·					
Dire	ctional Demand Flow Rate, veh/h	276		Opposing Demand	d Flow Rate, veh/h	-	
Peak	Hour Factor	0.94		Total Trucks, %		31.00	
Segr	ment Capacity, veh/h	1100		Demand/Capacity	0.25		
Int	ermediate Results						
Segr	ment Vertical Class	2		Free-Flow Speed,	mi/h	46.0	
Spee	ed Slope Coefficient	12.22850		Speed Power Coef	fficient	1.55917	
PF S	lope Coefficient	-0.91332		PF Power Coefficie	ent	0.77795	
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.7	
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0	
Suk	osegment Data						
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	25872	-		-	45.2	

Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		169				106	
Perc	entage of Heavy Vehicles (HV%), %		12.40				60.59	
Initia	al Average Speed (Sint), mi/h		74.3				64.5	
Ave	rage Speed at Midpoint (SPLmid), mi	/h	76.4				62.4	
Perc	ent Followers at Midpoint (PFPLmid)	, %	12.7				0.5	
Vel	hicle Results							
Ave	rage Speed, mi/h	45.2			Percent Followers	, %		28.5
Seg	ment Travel Time, minutes	6.51			Followers Density	, follo	owers/mi/ln	1.7
Vehi	icle LOS	А						
			S	egn	nent 7			
Vel	hicle Inputs							
Seg	ment Type	Pass	sing Lanes		Length, ft			30624
Mea	asured FFS	Mea	asured		Free-Flow Speed,	mi/h		47.0
De	mand and Capacity				1			
Dire	ectional Demand Flow Rate, veh/h	310			Opposing Deman	d Flo	w Rate, veh/h	-
Peal	k Hour Factor	0.94	ļ	Total Trucks, %			30.00	
Seg	ment Capacity, veh/h	110	0		Demand/Capacity	/ (D/C	<u> </u>	0.28
Int	ermediate Results							
Seg	ment Vertical Class	4	Free-Flow Speed, mi/h				47.0	
Spe	ed Slope Coefficient	28.7	73583		Speed Power Coefficient		1.16507	
PF S	Slope Coefficient	-0.8	32245		PF Power Coefficient		1.06542	
In Pa	assing Lane Effective Length?	No			Total Segment Density, veh/mi/ln		1.5	
%lm	proved % Followers	0.0	% Improved Avg Spec		Speed			
Sul	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	306	24	-		-		42.3
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		188				122	
Perc	centage of Heavy Vehicles (HV%), %		12.00				57.68	
Initia	al Average Speed (Sint), mi/h		72.4				56.3	
Ave	rage Speed at Midpoint (SPLmid), mi	/h	74.4				54.3	
Perc	cent Followers at Midpoint (PFPLmid)	, %	15.4				-	
Vel	hicle Results							
	rage Speed, mi/h	42.3			Percent Followers	%		21.0

Segn	nent Travel Time, minutes	8.22		Followers Density,	followers/mi/ln	1.5
Vehi	cle LOS	А				
			Segn	nent 8		
Veh	nicle Inputs					
Segn	nent Type	Passing Zone		Length, ft		7392
Lane	Width, ft	12		Shoulder Width, f	:	6
Spee	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	5.0
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	288		Opposing Deman	d Flow Rate, veh/h	261
Peak	Hour Factor	0.94		Total Trucks, %		17.50
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.17
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	60.9
Spee	d Slope Coefficient	3.64391		Speed Power Coe	fficient	0.52382
		PF Power Coefficient		0.80405		
In Passing Lane Effective Length? Yes		Yes		Total Segment De	nsity, veh/mi/ln	1.7
%lm	%Improved % Followers 13.0		% Improved Avg S	Speed	0.1	
Suk	segment Data					·
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7392 -			-	59.3
Veh	nicle Results				-	
Aver	age Speed, mi/h	59.4		Percent Followers,	%	36.0
Segn	nent Travel Time, minutes	1.41		Followers Density, followers/mi/ln		1.5
Vehi	cle LOS	А		,,,,,,,, .		
		<u>'</u>	Segn	nent 9		
Veh	nicle Inputs					
•		Length, ft				
	nent Type	-		Length, ft		2640
Segn	Width, ft	Passing Constrained 12	d	Length, ft Shoulder Width, ft	:	2640
Segn Lane			d	_		
Segn Lane Spee	Width, ft	12	d	Shoulder Width, f		6
Segn Lane Spee	Width, ft ed Limit, mi/h	12	d	Shoulder Width, for Access Point Dens		6
Segn Lane Spee <b>Der</b>	Width, ft d Limit, mi/h mand and Capacity	12 55	d	Shoulder Width, for Access Point Dens	ity, pts/mi	6 22.0
Segn Lane Spee Der Direc	Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h	12 55 560	d	Shoulder Width, fi	ity, pts/mi d Flow Rate, veh/h	6 22.0
Segn Lane Spee Der Direc Peak Segn	Width, ft  ad Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  Hour Factor	12 55 560 0.94	d	Shoulder Width, for Access Point Dens Opposing Demandation Total Trucks, %	ity, pts/mi d Flow Rate, veh/h	- 19.00
Segn Lane Spee Der Direc Peak Segn	Width, ft  ad Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  Hour Factor  nent Capacity, veh/h	12 55 560 0.94	d	Shoulder Width, for Access Point Dens Opposing Demandation Total Trucks, %	d Flow Rate, veh/h	- 19.00
Segn Lane Spee Direct Peak Segn	Width, ft  Ind Limit, mi/h  Ind Limit, m	12 55 560 0.94 1700	d	Shoulder Width, for Access Point Dens  Opposing Demand Total Trucks, %  Demand/Capacity	d Flow Rate, veh/h (D/C)	- 19.00 0.33

Vehi	Segi	Ave	Ve		#	Sul	%lm	In Pa
Vehicle LOS	Segment Travel Time, minutes	Average Speed, mi/h	Vehicle Results	Tangent	Segment Type	Subsegment Data	%Improved % Followers	In Passing Lane Effective Length?
С	0.56	54.0		2640 -	Length, ft		9.7	Yes
	Followers Density, followers/mi/ln	Percent Followers, %			Radius, ft		% Improved Avg Speed	Total Segment Density, veh/mi/ln
	followers/mi/ln	%		-	Superelevation, %		peed	nsity, veh/mi/ln
	5.5	58.7		54.0	Average Speed, mi/h		0.0	6.1





	HCS7 Two-Lar	ne Highway R	eport	
Project Information				
Analyst	Carlos Arias	Date		6/9/2023
Agency	Westwood	Analysis Year		2025
Jurisdiction	Shasta County	Time Period Anal	yzed	Peak Hour
Project Description	Fountain Wind Two Land e-w _ West Bound - Alor CA-299E from Old Orego Trail to Plumas Street	ng		United States Customary
	Seg	gment 1		
Vehicle Inputs				
Segment Type	Passing Constrained	Length, ft		2640
Lane Width, ft	12	Shoulder Width, 1	ft	6
Speed Limit, mi/h	55	Access Point Den	sity, pts/mi	22.0
Demand and Capacity				
Directional Demand Flow Rate, veh	n/h 255	Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %		19.00
Segment Capacity, veh/h 1700		Demand/Capacity	y (D/C)	0.15
Intermediate Results				
Segment Vertical Class 2		Free-Flow Speed,	mi/h	55.5
Speed Slope Coefficient	3.88683	Speed Power Coe	efficient	0.44359
PF Slope Coefficient	-1.43208	PF Power Coeffici	ent	0.73380
In Passing Lane Effective Length?	No	Total Segment De	ensity, veh/mi/ln	1.9
%Improved % Followers	0.0	% Improved Avg	Speed	0.0
Subsegment Data				
# Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2640	-	-	53.8
Vehicle Results				
Average Speed, mi/h	53.8	Percent Followers	5, %	40.9
Segment Travel Time, minutes	0.56	Followers Density	, followers/mi/ln	1.9
Vehicle LOS	A			
	Se	gment 2		
Vehicle Inputs				
Segment Type	Passing Zone	Length, ft		7392
Lane Width, ft	12	Shoulder Width, 1	ft	6
Speed Limit, mi/h	55	Access Point Den		5.0
Demand and Capacity				

Directional Demand Flow Rate, veh/h	261		Opposing Deman	d Flow Rate, veh/h	288
Peak Hour Factor	0.94		Total Trucks, %	a riew rate, veri, ii	17.50
Segment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.15
Intermediate Results	1		1	(-7-5)	1
Segment Vertical Class	1		Free-Flow Speed,	mi/h	60.9
Speed Slope Coefficient	3.65256		Speed Power Coe		0.51767
PF Slope Coefficient	-1.21772		PF Power Coefficie		0.80222
In Passing Lane Effective Length?					1.5
%Improved % Followers			Total Segment De		
<u> </u>	0.0		% Improved Avg S	speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	7392	-		-	59.4
Vehicle Results					
Average Speed, mi/h 59.4		Percent Followers	, %	33.9	
Segment Travel Time, minutes	ent Travel Time, minutes 1.41		Followers Density	, followers/mi/ln	1.5
Vehicle LOS	А				
		Segn	nent 3		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		30624
Measured FFS	Measured		Free-Flow Speed,	mi/h	47.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	277		Opposing Deman	d Flow Rate, veh/h	310
Peak Hour Factor	0.94		Total Trucks, %		30.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.16
Intermediate Results					
Segment Vertical Class	4		Free-Flow Speed,	mi/h	47.0
Speed Slope Coefficient	30.30657		Speed Power Coe	fficient	0.69074
PF Slope Coefficient	-1.50563		PF Power Coefficie	ent	0.79558
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	3.1
%Improved % Followers	0.0		% Improved Avg S		0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	30624	-		-	37.9
Vehicle Results					
Average Speed, mi/h	37.9		Percent Followers	, %	41.8
	9.19		Followers Density		3.1
Segment Travel Time, minutes 9.19  Vehicle LOS B			1		

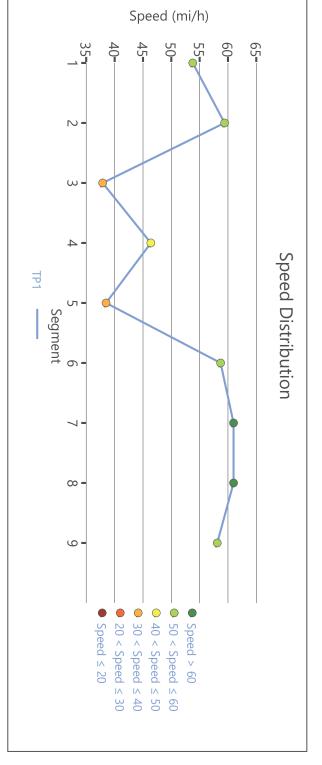
			Se	egn	ment 4			
Vel	hicle Inputs							
Seg	ment Type	Pass	sing Lanes		Length, ft			25872
Mea	asured FFS	Mea	asured		Free-Flow Speed,	mi/h		47.0
De	mand and Capacity							·
Dire	ctional Demand Flow Rate, veh/h	243			Opposing Demand	d Flo	w Rate, veh/h	-
Peal	k Hour Factor	0.94	1		Total Trucks, %			31.00
Seg	ment Capacity, veh/h	110	0		Demand/Capacity	(D/0	<b>(</b> )	0.22
Int	ermediate Results							
Seg	ment Vertical Class	2			Free-Flow Speed,	mi/h		47.0
Spe	ed Slope Coefficient	12.2	22850		Speed Power Coef	fficie	nt	1.55917
PF S	lope Coefficient	-0.9	1061	PF Power Coefficie	ent		0.78832	
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.3		
%Improved % Followers 0.0				% Improved Avg S	Spee	d	0.0	
Sul	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	258	25872 -			-		46.4
Pas	ssing Lane Results		Fasterilana				Claurantana	
Elou	v Rate, veh/h		Faster Lane			Slower Lane 91		
	rentage of Heavy Vehicles (HV%), %		12.40		61.80			
	al Average Speed (Sint), mi/h		74.4		64.2			
	rage Speed at Midpoint (SPLmid), mi,	/h	76.4		62.2			
	ent Followers at Midpoint (PFPLmid),		11.4		0.3			
	hicle Results		1				1 2.0	
Ave	rage Speed, mi/h	46.4	<u> </u>		Percent Followers,	Percent Followers %		25.8
	ment Travel Time, minutes	6.33	}		Followers Density,		owers/mi/ln	1.3
Vehi	icle LOS	А						
			Se	egn	ment 5			
Vel	hicle Inputs							
	ment Type	Pass	sing Zone		Length, ft			12144
	sured FFS	-	asured		Free-Flow Speed,	mi/h		46.0
De	mand and Capacity							
	ectional Demand Flow Rate, veh/h	243			Opposing Demand	d Flo	w Rate, veh/h	276
	k Hour Factor	0.94			Total Trucks, %		. ,	31.00
Sea	ment Capacity, veh/h	170			Demand/Capacity	(D/0	2)	0.14

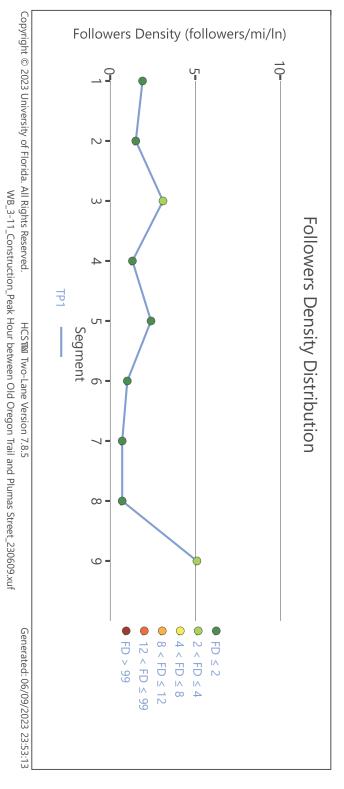
Car	mont Vertical Class	4		Fron Flam Co.	d mi/h	46.0
	ment Vertical Class	· ·		Free-Flow Spee		
·	ed Slope Coefficient	30.65835		Speed Power Cooff		0.70288
	lope Coefficient	-1.48821		PF Power Coeff		
	assing Lane Effective Length?	Yes			Density, veh/mi/ln	2.4
	proved % Followers	14.0		% Improved Av	g Speed	0.9
Su	bsegment Data					
#	Segment Type	Length, ft	1	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	12144	<u> </u>	-	-	38.2
Vel	nicle Results					
Ave	rage Speed, mi/h	38.5		Percent Followe	ers, %	38.3
Seg	ment Travel Time, minutes	3.58		Followers Dens	ty, followers/mi/ln	2.1
Veh	cle LOS	A				
			Seg	gment 6		
Vel	nicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		35904
Lane	e Width, ft	12		Shoulder Width	, ft	6
Spe	ed Limit, mi/h	55		Access Point De	nsity, pts/mi	6.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	207		Opposing Dem	and Flow Rate, veh/h	240
Peal	Hour Factor	0.94		Total Trucks, %		14.90
Seg	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.12
Int	ermediate Results					
Seg	ment Vertical Class	2		Free-Flow Spee	d, mi/h	59.8
Spe	ed Slope Coefficient	4.60786		Speed Power C	pefficient	0.63042
PF S	lope Coefficient	-1.20320		PF Power Coeff	cient	0.78760
In P	assing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	1.0
%lm	proved % Followers	8.6		% Improved Av	g Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft		Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	35904		-	-	58.7
Vol	nicle Results					
VCI	rage Speed, mi/h	58.7		Percent Followe	ers, %	29.4
				Followers Dens	ty, followers/mi/ln	1.0
Ave	Segment Travel Time, minutes 6.95  Vehicle LOS A			I Ollowers Deris	cy, 10110 W C13, 1111, 111	1

Veł	nicle Inputs								
Segr	ment Type	Pass	sing Lanes		Length, ft			15105	
	e Width, ft	12			Shoulder Width, ft	t		6	
Spee	ed Limit, mi/h	55			Access Point Dens	ity, p	ts/mi	4.0	
Dei	mand and Capacity								
Dire	ctional Demand Flow Rate, veh/h	202			Opposing Demand	d Flo	w Rate, veh/h	-	
Peak	Hour Factor	0.94			Total Trucks, %			14.90	
Segment Capacity, veh/h 1400			Demand/Capacity	(D/C	:)	0.14			
Inte	ermediate Results								
Segr	ment Vertical Class	1			Free-Flow Speed,	mi/h		61.2	
Spee	ed Slope Coefficient	7.24	.983		Speed Power Coef	fficie	nt	1.54401	
PF S	lope Coefficient	-0.9	6855		PF Power Coefficie			0.89690	
	assing Lane Effective Length?	No	No		Total Segment De	nsity,	veh/mi/ln	0.7	
%lm	proved % Followers	0.0		% Improved Avg S	Speed	<u> </u>	0.0		
Suk	osegment Data								
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h	
1	Tangent	151		-		-		61.0	
Pas	ssing Lane Results							<u>'</u>	
	-		Faster Lane				Slower Lane		
Flow	/ Rate, veh/h		131		72				
Perc	entage of Heavy Vehicles (HV%), %		5.96		31.23				
Initia	al Average Speed (Sint), mi/h		61.5		60.7				
Aver	rage Speed at Midpoint (SPLmid), mi/	'n.	63.2		58.9				
Perc	ent Followers at Midpoint (PFPLmid),	%	14.9		8.4				
Vel	nicle Results								
Aver	rage Speed, mi/h	61.0	)		Percent Followers, %			20.6	
Segr	ment Travel Time, minutes	2.81			Followers Density,	follo	wers/mi/ln	0.7	
Vehi	cle LOS	А							
			Se	gn	nent 8				
Vel	nicle Inputs								
	ment Type	Pass	sing Lanes		Length, ft			99999	
	e Width, ft	12			Shoulder Width, ft	t		6	
	ed Limit, mi/h	55			Access Point Dens		ts/mi	4.0	
Dei	mand and Capacity								
	ctional Demand Flow Rate, veh/h	202			Opposing Demand	d Flo	w Rate, veh/h	-	
	Hour Factor	0.94			Total Trucks, %			14.90	
Sear	ment Capacity, veh/h	140			Demand/Capacity	(D/C	<u> </u>	0.14	

Inte	ermediate Results								
Segn	nent Vertical Class	1			Free-Flow Sp	peed, n	ni/h	61.2	
Spee	ed Slope Coefficient	7.28	3696		Speed Powe	er Coeff	icient	1.58663	
PF SI	ope Coefficient	-0.9	6880		PF Power Co	pefficie	nt	0.89273	
In Pa	ssing Lane Effective Length?	No			Total Segme	ent Den	sity, veh/mi/ln	0.7	
%lm	proved % Followers	0.0			% Improved Avg Speed			0.0	
Suk	segment Data								
#	Segment Type	Len	gth, ft	Rac	dius, ft		Superelevation, %	Average Speed, mi/h	
1	Tangent	999	99	-			-	61.0	
Pas	sing Lane Results								
			Faster Lane				Slower Lane		
Flow	Rate, veh/h		131				72		
Perce	entage of Heavy Vehicles (HV%), %		5.96				31.23		
Initia	ıl Average Speed (Sint), mi/h		61.5				60.7		
Aver	age Speed at Midpoint (SPLmid), m	i/h	63.2				58.9		
Perce	ent Followers at Midpoint (PFPLmid	), %	15.0				8.6		
Veh	nicle Results								
Aver	age Speed, mi/h	61.0	)		Percent Follo	owers,	<u> </u>	20.7	
Segn	gment Travel Time, minutes 18.63			Followers De	ensity,	followers/mi/ln	0.7		
Vehic	cle LOS								
		_	Se	egn	nent 9			<u>'</u>	
Veh	nicle Inputs								
Segn	nent Type	Pass	sing Zone		Length, ft			22704	
Lane	Width, ft	12			Shoulder Width, ft			6	
Spee	ed Limit, mi/h	55			Access Point Density, pts/mi			8.0	
Der	mand and Capacity								
Direc	ctional Demand Flow Rate, veh/h	548			Opposing Demand Flow Rate, veh/h			373	
Peak	Hour Factor	0.94	1		Total Trucks, %			3.76	
Segn	nent Capacity, veh/h	170	0		Demand/Ca	pacity	(D/C)	0.32	
Inte	ermediate Results								
Segn	nent Vertical Class	1			Free-Flow Sp	peed, n	ni/h	60.6	
	ed Slope Coefficient	3.68	3478		Speed Powe			0.50130	
•	ope Coefficient	-1.2	4770		PF Power Co			0.77267	
	ssing Lane Effective Length?	Yes			Total Segme	ent Den	sity, veh/mi/ln	5.1	
%lm	proved % Followers	4.3			% Improved	l Avg S <sub>l</sub>	peed	0.0	
Suk	osegment Data							·	
	Segment Type	1.	 gth, ft		lius, ft		Superelevation, %	Average Speed, mi/h	

1 Tangent	22704 -	•	58.1
Vehicle Results			
Average Speed, mi/h	58.1	Percent Followers, %	54.3
Segment Travel Time, minutes	4.44	Followers Density, followers/mi/ln	4.9
Vehicle LOS	С		





	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2027
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	POST- CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
<b>Direction 1 Geometric Data</b>			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 1 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		
Volume(V) veh/h	583	Heavy Vehicle Adjustment Factor (fHV)	0.942
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	329
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.16
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	6.1
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	310	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.36
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2027
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	POST- CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
<b>Direction 2 Geometric Data</b>			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	1108	Heavy Vehicle Adjustment Factor (fHV)	0.936
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	630
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.31
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	11.8
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	В
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	589	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.68
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D
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	HCS7 Multilane		
<b>Project Information</b>			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2027
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	POST- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
<b>Direction 1 Geometric Data</b>			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	1.70
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	5
Median Type	Divided	Total Lateral Clearance (TLC), ft	11
Free-Flow Speed (FFS), mi/h	54.6		
Direction 1 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		
Volume(V) veh/h	483	Heavy Vehicle Adjustment Factor (fHV)	0.951
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	270
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2064
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	1998
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.14
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D ), pc/mi/ln	5.1
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	257	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.83
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С

	HCS7 Multilane		
<b>Project Information</b>			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2027
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	POST- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
<b>Direction 2 Geometric Data</b>			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	583	Heavy Vehicle Adjustment Factor (fHV)	0.950
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	326
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.16
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D ), pc/mi/ln	6.1
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	310	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.92
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С

Dua	icat Information				
	ject Information				
Anal	yst	Carlos Arias	Date		6/9/2023
Ager	ncy	Westwood	Analysis Year		2027
Juris	diction	Shasta County	Time Period Analy	/zed	Peak Hour
Proje	ect Description	Fountain Wind Two Lane e-w E Bound - Along CA-299E from Old Orego Trail to Plumas Street			United States Customar
		Seg	ment 1		
Vel	nicle Inputs				
Segr	ment Type	Passing Zone	Length, ft		22704
Lane	Width, ft	12	Shoulder Width, f	t	6
Spee	ed Limit, mi/h	55	Access Point Dens	sity, pts/mi	8.0
Der	mand and Capacity				
Dire	ctional Demand Flow Rate, veh/h	285	Opposing Deman	d Flow Rate, veh/h	493
Peak	Hour Factor	0.94	Total Trucks, %		3.76
Segr	ment Capacity, veh/h	Demand/Capacity	/ (D/C)	0.17	
Inte	ermediate Results	·			
Segr	ment Vertical Class	1	Free-Flow Speed,	mi/h	60.6
Spee	ed Slope Coefficient	3.71453	Speed Power Coe	fficient	0.48307
PF SI	lope Coefficient	-1.26236	PF Power Coefficie	ent	0.76680
In Pa	assing Lane Effective Length?	No	Total Segment De	ensity, veh/mi/ln	1.9
%lm	proved % Followers	0.0	% Improved Avg S	0.0	
Suk	osegment Data				
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	22704 -		-	58.9
Veh	nicle Results				
Aver	age Speed, mi/h	58.9	Percent Followers	, %	38.3
Segr	ment Travel Time, minutes	4.38	Followers Density	, followers/mi/ln	1.9
Vehi	cle LOS	А			
		Seg	ment 2		
Vel	nicle Inputs				
Segr	ment Type	Passing Lanes	Length, ft		99999
Lane	Width, ft	12	Shoulder Width, f	t	6
Speed Limit, mi/h 55			Access Point Dens	4.0	

	ctional Demand Flow Rate, veh/h	147			Opposing Demand Flow Rate, veh/h			-	
	Hour Factor	0.94			Total Trucks, %			14.90	
Segn	nent Capacity, veh/h	140	0		Demand/Capacity (D/C) 0.10				
Inte	ermediate Results								
Segn	nent Vertical Class	1			Free-Flow Speed, mi/h			61.2	
Speed Slope Coefficient 7.28696			Speed Power Coe	fficie	nt	1.58663			
PF SI	ope Coefficient	-0.9	6880		PF Power Coefficie	ent		0.89273	
In Pa	ssing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	0.4	
%lm	proved % Followers	0.0			% Improved Avg S	Speed	d	0.0	
Suk	segment Data								
#	Segment Type	Leng	gth, ft	Radi	us, ft	Sup	erelevation, %	Average Speed, mi/h	
1	Tangent	999	99	-		-		61.1	
Pas	sing Lane Results								
Faster Lane							Slower Lane		
Flow	Rate, veh/h		98				49		
Percentage of Heavy Vehicles (HV%), % 5.96					32.62				
Initial Average Speed (Sint), mi/h 61.5				60.6					
Average Speed at Midpoint (SPLmid), mi/h 63.2						58.9			
Perce	ent Followers at Midpoint (PFPLmid),	, %	11.8				6.1		
Veh	nicle Results								
	age Speed, mi/h	61.1			Percent Followers,	, %		16.0	
Avera		61.1			Percent Followers,		wers/mi/ln	16.0	
Avera Segn	age Speed, mi/h	+					wers/mi/ln		
Avera Segn	age Speed, mi/h nent Travel Time, minutes	18.5	58				wers/mi/ln		
Avera Segn Vehic	age Speed, mi/h nent Travel Time, minutes cle LOS	18.5	58		Followers Density,		wers/mi/ln		
Avera Segn Vehice Veh	age Speed, mi/h nent Travel Time, minutes cle LOS	18.5	58		Followers Density,		wers/mi/ln		
Avera Segn Vehic	age Speed, mi/h nent Travel Time, minutes cle LOS	18.5	Se		Followers Density,	, follo	wers/mi/ln	0.4	
Vehice Segning Lane	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type	18.5	Se	egm	Followers Density,  ent 3  Length, ft	, follo		15105	
Avera Segn Vehice Veh Segn Lane	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type  Width, ft ed Limit, mi/h	18.5 A Pass 12	Se	egm	Followers Density,  nent 3  Length, ft  Shoulder Width, ft	, follo		0.4 15105 6	
Avera Segn Vehico Veh Segn Lane Spee	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type  Width, ft	18.5 A Pass 12	Se sing Lanes	egm	Followers Density,  nent 3  Length, ft  Shoulder Width, ft	t t	ts/mi	0.4 15105 6	
Vehice Vehice Vehice Vehice Der	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity	18.5 A Pass 12 55	Se Se Sing Lanes	egm	Followers Density,  Tent 3  Length, ft  Shoulder Width, ft  Access Point Dens	t t	ts/mi	15105 6 4.0	
Vehice Vehice Vehice Segn Lane Spee Der Direce	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity  ctional Demand Flow Rate, veh/h	18.5 A Pass 12 55	Se Se sing Lanes	egm	Followers Density,  Tent 3  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Demand	t t	ts/mi w Rate, veh/h	0.4 15105 6 4.0	
Vehice Vehice Vehice Vehice Segn Lane Spee Der Direce Peak Segn	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor	18.5 A Pass 12 55 147 0.94	Se Se sing Lanes	egm	Followers Density,  Thent 3  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Demandation  Total Trucks, %	t t	ts/mi w Rate, veh/h	0.4 15105 6 4.0	
Vehico Vehico Vehico Vehico Segni Lane Spee Der Direcc Peak Segni	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results	18.5 A Pass 12 55 147 0.94 140	Se Se sing Lanes	egm	Followers Density,  Tent 3  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Demandor Total Trucks, %  Demand/Capacity	t t t d Floor	ts/mi w Rate, veh/h	0.4 15105 6 4.0 - 14.90 0.10	
Vehice Vehice Vehice Vehice Vehice Segn Lane Spee Direce Peak Segn Inte	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class	18.5 A Pass 12 55 147 0.94 140	Sessing Lanes	egm	Followers Density,  Thent 3  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Demand  Total Trucks, %  Demand/Capacity  Free-Flow Speed,	t t d Floo	ts/mi w Rate, veh/h	0.4 15105 6 4.0 - 14.90 0.10	
Vehico  Vehico  Vehico  Segn  Lane  Spee  Der  Peak  Segn  Inte  Segn  Spee	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class ed Slope Coefficient	18.5 A Pass 12 55 147 0.94 140 1 7.24	sing Lanes  100	egm	Followers Density,  Tent 3  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Demandor Total Trucks, %  Demand/Capacity	t t sity, p d Floor	ts/mi w Rate, veh/h	0.4 15105 6 4.0 - 14.90 0.10 61.2 1.54401	
Vehice Segn Lane Spee Der Direct Peak Segn Inte	age Speed, mi/h nent Travel Time, minutes cle LOS  nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class	18.5 A Pass 12 55 147 0.94 140 1 7.24	Sessing Lanes	egm	Followers Density,  Thent 3  Length, ft  Shoulder Width, ft  Access Point Dens  Opposing Deman  Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe	t t t sity, p d Flor	ts/mi w Rate, veh/h	0.4 15105 6 4.0 - 14.90 0.10	

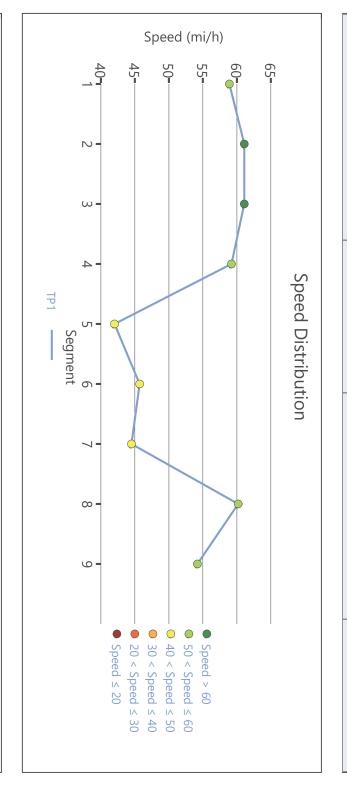
Subsegment Data								
# Segment Type	Len	gth, ft		Radiu	us, ft	Superele	evation, %	Average Speed, mi/h
1 Tangent	151	05		-	-		61.1	
Passing Lane Results								<u>'</u>
		Faster Lane				Slo	wer Lane	
Flow Rate, veh/h 98					49			
Percentage of Heavy Vehicles (HV%	), %	5.96				32.	62	
Initial Average Speed (Sint), mi/h		61.5				60.	6	
Average Speed at Midpoint (SPLmid	d), mi/h	63.2				58.	9	
Percent Followers at Midpoint (PFP)	₋mid), %	11.7				6.0		
Vehicle Results								
Average Speed, mi/h	61.	1			Percent Followers	5, %		15.9
Segment Travel Time, minutes	2.8	1			Followers Density	, followers	s/mi/ln	0.4
Vehicle LOS	А							
			Se	egm	ent 4			
Vehicle Inputs								
Segment Type	Pas	sing Zone		T	Length, ft			35904
Lane Width, ft	12			:	Shoulder Width, f	ft		6
Speed Limit, mi/h	55			,	Access Point Dens	sity, pts/m	i	6.0
Demand and Capacity								
Directional Demand Flow Rate, veh,	/h 152				Opposing Demand Flow Rate, veh/h			152
Peak Hour Factor	0.94	1		-	Total Trucks, %			14.90
Segment Capacity, veh/h	170	0		l	Demand/Capacity (D/C)			0.09
Intermediate Results								
Segment Vertical Class	2				Free-Flow Speed, mi/h			59.8
Speed Slope Coefficient	4.54	4104		:	Speed Power Coefficient			0.66128
PF Slope Coefficient	-1.1	7713			PF Power Coeffici	ent		0.79590
In Passing Lane Effective Length?	Yes			-	Total Segment Density, veh/mi/ln			0.6
%Improved % Followers	9.3			(	% Improved Avg	Speed		0.0
Subsegment Data								
# Segment Type	Len	gth, ft		Radiu	us, ft	Superele	evation, %	Average Speed, mi/h
1 Tangent	359	04		-		-		59.2
Vehicle Results								
Average Speed, mi/h	59.2	2			Percent Followers	5, %		23.1
Segment Travel Time, minutes	6.90	)			Followers Density, followers/mi/ln			0.5
Vehicle LOS	А							
			Sa	am	ent 5			

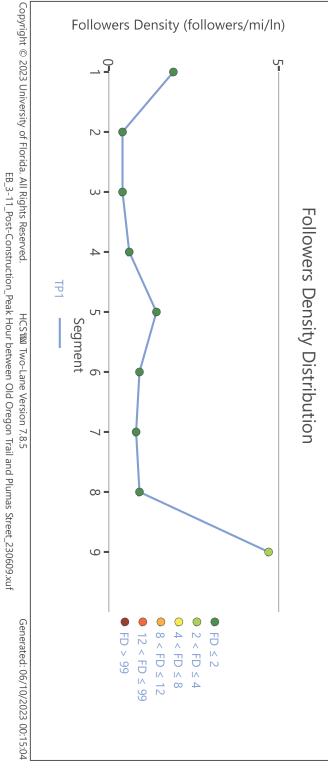
Ve	hicle Inputs						
Seg	ment Type	Passing Zone		Length, ft		12144	
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	47.0	
De	mand and Capacity					<u>'</u>	
Dire	ctional Demand Flow Rate, veh/h	nal Demand Flow Rate, veh/h 187			d Flow Rate, veh/h	187	
Peal	K Hour Factor	0.94		Total Trucks, %		31.00	
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.11	
Int	ermediate Results	'				<u>'</u>	
Segment Vertical Class 4			Free-Flow Speed,	mi/h	47.0		
Spe	ed Slope Coefficient	30.49005		Speed Power Coe	fficient	0.74331	
PF S	lope Coefficient	-1.43973		PF Power Coefficie	ent	0.80616	
In P	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	1.4	
%ln	proved % Followers	7.1		% Improved Avg S	Speed	0.0	
Su	bsegment Data						
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	12144	-		-	42.0	
Ve	hicle Results						
Ave	rage Speed, mi/h	42.0		Percent Followers,	, %	31.1	
Seg	ment Travel Time, minutes	3.28		Followers Density,	, followers/mi/ln	1.3	
Veh	icle LOS	А					
		<u>'</u>	Seg	ment 6			
Ve	hicle Inputs						
Seg	ment Type	Passing Lanes		Length, ft	25872		
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	46.0	
De	mand and Capacity	<u>'</u>					
Dire	ctional Demand Flow Rate, veh/h	187		Opposing Deman	d Flow Rate, veh/h	-	
Peal	K Hour Factor	0.94		Total Trucks, %		31.00	
Seg	ment Capacity, veh/h	1100		Demand/Capacity	(D/C)	0.17	
Int	ermediate Results	<u> </u>				<u>'</u>	
Seq	ment Vertical Class	2		Free-Flow Speed,	mi/h	46.0	
	ed Slope Coefficient	12.22850		Speed Power Coe		1.55917	
	lope Coefficient	-0.91332		PF Power Coefficie		0.77795	
	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.9	
	proved % Followers	0.0		% Improved Avg Speed 0.0			
	bsegment Data	<u> </u>					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	25872	-		-	45.7	

Pas	ssing Lane Results								
			Faster Lane				Slower Lane		
Flov	v Rate, veh/h		120				67		
Perc	entage of Heavy Vehicles (HV%), %		12.40				64.30		
Initi	al Average Speed (Sint), mi/h		74.4				63.7		
Ave	rage Speed at Midpoint (SPLmid), m	i/h	76.4				61.7		
Perc	ent Followers at Midpoint (PFPLmid	, %	9.2				0.0		
Ve	hicle Results								
Ave	rage Speed, mi/h	45.7	7		Percent Followers	, %		22.0	
Seg	ment Travel Time, minutes	6.43	}		Followers Density	, follo	wers/mi/ln	0.9	
Veh	icle LOS	А							
			S	egn	nent 7				
Ve	hicle Inputs								
Seg	ment Type	Pass	sing Lanes		Length, ft			30624	
	asured FFS	Mea	asured	Free-Flow Speed, mi/h			47.0		
De	mand and Capacity							<u>'</u>	
Dire	ectional Demand Flow Rate, veh/h	221			Opposing Deman	d Flo	w Rate, veh/h	-	
Peal	k Hour Factor	0.94	ļ		Total Trucks, %			30.00	
Seg	ment Capacity, veh/h	110	0		Demand/Capacity (D/C)			0.20	
Int	ermediate Results								
Seg	ment Vertical Class	4			Free-Flow Speed,	mi/h		47.0	
Spe	ed Slope Coefficient	28.7	73583		Speed Power Coefficient			1.16507	
PF S	lope Coefficient	-0.8	2245		PF Power Coefficient			1.06542	
In P	assing Lane Effective Length?	No			Total Segment Density, veh/mi/ln		0.8		
%ln	proved % Followers	0.0			% Improved Avg	Improved Avg Speed		0.0	
Su	bsegment Data								
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h	
1	Tangent	306	24	-		-		44.5	
Pas	ssing Lane Results								
			Faster Lane				Slower Lane		
Flov	v Rate, veh/h		140				82		
Perc	entage of Heavy Vehicles (HV%), %		12.00				60.75		
Initi	al Average Speed (Sint), mi/h		72.7				56.0		
Ave	rage Speed at Midpoint (SPLmid), m	i/h	74.7				54.0		
Perc	ent Followers at Midpoint (PFPLmid	, %	11.4				-		
Ve	hicle Results								
					Percent Followers, % 15.2			15.2	

Seam	nent Travel Time, minutes	7.81		Followers Density,	followers/mi/ln	0.8
	le LOS	A		25.1.0.0 Definity,	3	
			an	nent 8		
		36	-gii	ient o		
Veh	icle Inputs					
Segn	nent Type	Passing Zone		Length, ft		7392
Lane	Width, ft	12		Shoulder Width, ft	t	6
Spee	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	5.0
Den	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	200		Opposing Demand	d Flow Rate, veh/h	205
Peak	Hour Factor	0.94		Total Trucks, %		17.50
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.12
Inte	rmediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	60.9
Spee	d Slope Coefficient	3.62509		Speed Power Coef	fficient	0.53776
PF SI	ope Coefficient	-1.20092		PF Power Coefficie	ent	0.80811
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	0.9
%lmp	proved % Followers	13.9		% Improved Avg S	Speed	0.6
Sub	segment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7392	-	-		59.8
Veh	icle Results					·
Avera	age Speed, mi/h	60.2		Percent Followers,	. %	27.9
Segn	nent Travel Time, minutes	1.40		Followers Density,	followers/mi/ln	0.8
Vehic	le LOS	А				
		Se	an	nent 9		
	• • • •	30	3''			
	icle Inputs					
	nent Type	Passing Constrained		Length, ft		2640
	Width, ft	12		Shoulder Width, ft		6
Spee	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	22.0
Den	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	471		Opposing Demand	d Flow Rate, veh/h	-
Peak Hour Factor 0.94		Total Trucks, %		19.00		
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.28
Inte	rmediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	56.6
Speed Slope Coefficient 3.59598				Speed Power Coef	fficient	0.41674
	ope Coefficient			PF Power Coefficie		0.74751

Vehi	Segr	Aver	Vel	1	#	Suk	%lm	In Pa
Vehicle LOS	Segment Travel Time, minutes	Average Speed, mi/h	Vehicle Results	Tangent	Segment Type	Subsegment Data	%Improved % Followers	In Passing Lane Effective Length?
С	0.55	54.2		2640 -	Length, ft		10.6	Yes
	Followers Density, followers/mi/ln	Percent Followers, %			Radius, ft		% Improved Avg Speed	Total Segment Density, veh/mi/ln
	followers/mi/ln	%		-	Superelevation, %		peed	nsity, veh/mi/ln
	4.2	54.1		54.2	Average Speed, mi/h		0.0	4.7





	HCS7 Two-Lar	ne Highway	Report	
Project Information				
Analyst	Carlos Arias	Date		6/9/2023
Agency	Westwood	Analysis Year		2027
Jurisdiction	Shasta County	Time Period An	alyzed	Peak Hour
Project Description	Fountain Wind Two Land e-w _ West Bound - Alor CA-299E from Old Oregon Trail to Plumas Street	ng		United States Customary
	Seg	gment 1		
Vehicle Inputs				
Segment Type	Passing Constrained	Length, ft		2640
Lane Width, ft	12	Shoulder Width	n, ft	6
Speed Limit, mi/h	55	Access Point De	ensity, pts/mi	22.0
Demand and Capacity	·			·
Directional Demand Flow Rate, vel	h/h 200	Opposing Dem	and Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %		19.00
Segment Capacity, veh/h	1700	Demand/Capac	city (D/C)	0.12
Intermediate Results				
Segment Vertical Class	2	Free-Flow Spee	ed, mi/h	55.5
Speed Slope Coefficient	3.88683	Speed Power C	oefficient	0.44359
PF Slope Coefficient	-1.43208	PF Power Coeff	icient	0.73380
In Passing Lane Effective Length?	No	Total Segment	Density, veh/mi/ln	1.3
%Improved % Followers	0.0	% Improved Av	rg Speed	0.0
Subsegment Data				
# Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2640	-	-	54.1
Vehicle Results				
Average Speed, mi/h	54.1	Percent Followe	ers, %	35.6
Segment Travel Time, minutes	0.55	Followers Dens	ity, followers/mi/ln	1.3
Vehicle LOS	А			
	Se	gment 2		
Vehicle Inputs				
Segment Type	Passing Zone	Length, ft		7392
Lane Width, ft	12	Shoulder Width	n, ft	6
Speed Limit, mi/h	55	Access Point De		5.0
Demand and Capacity				

Directional Demand Flow Rate, veh/h	205		Onnosing Deman	d Flow Rate, veh/h	200	
Peak Hour Factor	0.94		Total Trucks, %	a riow Rate, veri/ii	17.50	
Segment Capacity, veh/h	1700		Demand/Capacity	, (D/C)	0.12	
Intermediate Results	1700		Demand, capacity		0.12	
			I			
Segment Vertical Class	1		Free-Flow Speed,		60.9	
Speed Slope Coefficient	3.62315			fficient	0.53925	
PF Slope Coefficient	-1.19967		PF Power Coefficie		0.80854	
In Passing Lane Effective Length?	No		Total Segment De		1.0	
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0	
Subsegment Data						
# Segment Type	Length, ft Radiu		dius, ft	Superelevation, %	Average Speed, mi/h	
1 Tangent	7392	7392 -		-	59.8	
Vehicle Results						
Average Speed, mi/h	59.8		Percent Followers	, %	28.4	
Segment Travel Time, minutes	1.40		Followers Density	, followers/mi/ln	1.0	
Vehicle LOS	А	А				
		Segn	nent 3			
Vehicle Inputs						
Segment Type	Passing Zone		Length, ft		30624	
Measured FFS	Measured		Free-Flow Speed,	mi/h	47.0	
Demand and Capacity					<u> </u>	
Directional Demand Flow Rate, veh/h	221		Opposing Deman	d Flow Rate, veh/h	221	
Peak Hour Factor	0.94		Total Trucks, %		30.00	
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.13	
Intermediate Results	<u>'</u>		<u>'</u>			
Segment Vertical Class	4		Free-Flow Speed,	mi/h	47.0	
Speed Slope Coefficient	30.14962		Speed Power Coe	fficient	0.72693	
PF Slope Coefficient	-1.46084		PF Power Coefficie	ent	0.80165	
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.9	
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0	
Subsegment Data	,					
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h	
1 Tangent	30624	-		-	40.5	
Vehicle Results						
Average Speed, mi/h	40.5		Percent Followers	, %	35.3	
Segment Travel Time, minutes	8.59		Followers Density	, followers/mi/ln	1.9	
Vehicle LOS A						

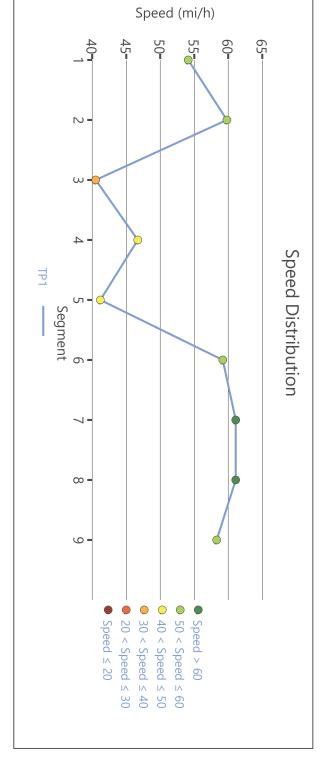
			Se	egn	ment 4				
Vel	hicle Inputs								
Seg	ment Type	Pass	sing Lanes		Length, ft			25872	
Mea	asured FFS	Mea	asured		Free-Flow Speed, mi/h		47.0		
De	mand and Capacity							·	
Dire	ectional Demand Flow Rate, veh/h	187			Opposing Demand	d Flo	w Rate, veh/h	-	
Peal	k Hour Factor	0.94	1		Total Trucks, %			31.00	
Seg	ment Capacity, veh/h	110	0		Demand/Capacity	(D/0	C)	0.17	
Int	ermediate Results								
Seg	ment Vertical Class	2			Free-Flow Speed, 1	mi/h		47.0	
Spe	ed Slope Coefficient	12.2	22850		Speed Power Coef	fficie	nt	1.55917	
PF S	lope Coefficient	-0.9	1061		PF Power Coefficie	ent		0.78832	
In Pa	assing Lane Effective Length?	No			Total Segment Der	nsity	, veh/mi/ln	0.9	
%lm	proved % Followers	0.0			% Improved Avg S	Spee	d	0.0	
Sul	bsegment Data								
#	Segment Type	Len	gth, ft	Rac	dius, ft	us, ft Superelevation, %		Average Speed, mi/h	
1	Tangent	258	72	-	-			46.7	
Pas	ssing Lane Results		Factor Long				Slower Lane		
Elou	v Rate, veh/h		Faster Lane				67		
	rentage of Heavy Vehicles (HV%), %		12.40				64.30		
	al Average Speed (Sint), mi/h		74.4		63.7				
	rage Speed at Midpoint (SPLmid), mi,	/h	76.4				61.7		
	ent Followers at Midpoint (PFPLmid),		9.2				0.0		
	hicle Results		1				1 ***		
Ave	rage Speed, mi/h	46.7	7		Percent Followers,	%		21.6	
	ment Travel Time, minutes	6.29	)		Followers Density,	follo	owers/mi/ln	0.9	
Vehi	icle LOS	А							
			Se	egn	nent 5				
Vel	hicle Inputs								
	ment Type	Pass	sing Zone		Length, ft			12144	
	asured FFS	+	asured		Free-Flow Speed, 1	mi/h		46.0	
De	mand and Capacity								
	ectional Demand Flow Rate, veh/h	187			Opposing Demand	d Flo	w Rate, veh/h	187	
	k Hour Factor	0.94			Total Trucks, %			31.00	
Sea	ment Capacity, veh/h	170	0		Demand/Capacity	(D/0	C)	0.11	

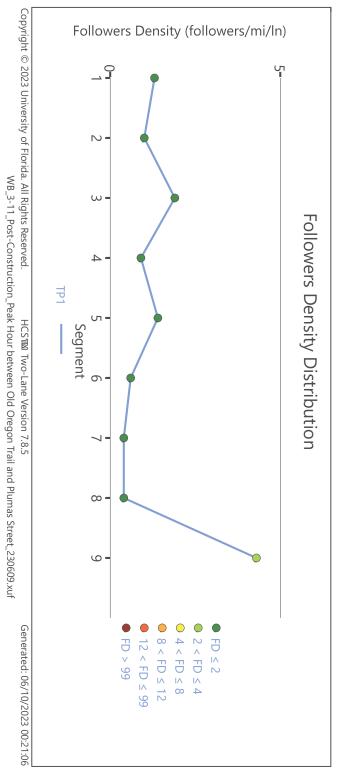
Inte	ermediate Results						
Segr	ment Vertical Class	4		Free-Flow Spee	ed, mi/h	46.0	
Spe	ed Slope Coefficient	30.49005		Speed Power C	oefficient	0.74331	
PF S	lope Coefficient	-1.44074		PF Power Coeff	icient	0.80011	
In Pa	assing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	1.4	
%lm	proved % Followers	14.0		% Improved Av	g Speed	0.5	
Sul	osegment Data						
#	Segment Type	Length, ft	F	Radius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	12144	-		-	41.0	
Vel	nicle Results						
Aver	age Speed, mi/h	41.2		Percent Follow	ers, %	31.4	
Segr	ment Travel Time, minutes	3.35		Followers Dens	ity, followers/mi/ln	1.2	
Vehi	cle LOS	А					
		<u>'</u>	Seg	gment 6			
Vel	nicle Inputs						
Segr	ment Type	Passing Zone		Length, ft		35904	
	· Width, ft	12			n, ft	6	
Spe	ed Limit, mi/h	55		Access Point Do	ensity, pts/mi	6.0	
Dei	mand and Capacity					-	
Dire	ctional Demand Flow Rate, veh/h	152		Opposing Dem	and Flow Rate, veh/h	152	
Peak	Hour Factor	0.94		Total Trucks, %		14.90	
Segr	ment Capacity, veh/h	1700		Demand/Capac	city (D/C)	0.09	
Int	ermediate Results						
Segr	ment Vertical Class	2		Free-Flow Spee	ed, mi/h	59.8	
Spe	ed Slope Coefficient	4.54104		Speed Power C	oefficient	0.66128	
PF S	lope Coefficient	-1.17713		PF Power Coeff	icient	0.79590	
In Pa	assing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	0.6	
%lm	proved % Followers	1.44074		0.0			
Suk	osegment Data						
#	Segment Type	Length, ft	F	Radius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	35904	-		-	59.2	
Val	nicle Results		·				
vei	rage Speed, mi/h	59.2		Percent Follow	ers, %	23.1	
	age speed, IIII/II						
Aver	ment Travel Time, minutes	6.90		Followers Dens	ity, followers/mi/ln	0.5	

Veł	nicle Inputs							
Segr	ment Type	Pass	sing Lanes		Length, ft			15105
	e Width, ft	12			Shoulder Width, ft	t		6
Spee	ed Limit, mi/h	55			Access Point Dens	ity, p	ts/mi	4.0
Dei	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	147			Opposing Demand	d Flo	w Rate, veh/h	-
Peak	Hour Factor	0.94	1		Total Trucks, %			14.90
Segr	ment Capacity, veh/h	140	0		Demand/Capacity	(D/C	<u>.</u>	0.10
Into	ermediate Results				<u>'</u>			
Segr	ment Vertical Class	1			Free-Flow Speed,	mi/h		61.2
Spee	ed Slope Coefficient	7.24	1983		Speed Power Coef	fficie	nt	1.54401
	lope Coefficient	-0.9	6855		PF Power Coefficie			0.89690
	assing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	0.4
%lm	proved % Followers	0.0			% Improved Avg S	Speed	t e	0.0
Suk	osegment Data				1			
#	Segment Type	Len	 gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	151		-	<u> </u>	-	<u></u>	61.1
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flow	/ Rate, veh/h		98				49	
Perc	entage of Heavy Vehicles (HV%), %		5.96				32.62	
Initia	al Average Speed (Sint), mi/h		61.5				60.6	
Aver	rage Speed at Midpoint (SPLmid), mi/	'n.	63.2				58.9	
Perc	ent Followers at Midpoint (PFPLmid),	%	11.7				6.0	
Vel	nicle Results							
Aver	rage Speed, mi/h	61.1			Percent Followers,		15.9	
Segr	ment Travel Time, minutes	2.81	 [		Followers Density,	follo	wers/mi/ln	0.4
Vehi	cle LOS	А						
			Se	gn	nent 8			
Vel	nicle Inputs							
	ment Type	Pass	sing Lanes		Length, ft			99999
	e Width, ft	12			Shoulder Width, ft	t		6
	ed Limit, mi/h	55			Access Point Dens		ts/mi	4.0
	mand and Capacity							
	ctional Demand Flow Rate, veh/h	147			Opposing Demand	d Flo	w Rate, veh/h	-
	Hour Factor	0.94			Total Trucks, %			14.90
Sear	ment Capacity, veh/h	140			Demand/Capacity	(D/C	.)	0.10

	rmediate Results									
		Ι.			I			1		
	ent Vertical Class	1			Free-Flow Speed,			61.2		
· ·	Slope Coefficient		3696 		Speed Power Coe		nt —————	1.58663		
	pe Coefficient		6880		PF Power Coefficie			0.89273		
	sing Lane Effective Length?	No		Total Segment Density, veh/mi/ln			0.4			
%lmpr	roved % Followers	0.0			% Improved Avg Speed 0.0					
Subs	segment Data									
# :	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h		
1	Tangent	99	-			61.1				
Pass	ing Lane Results									
			Faster Lane				Slower Lane			
Flow F	Rate, veh/h		98				49			
Percer	ntage of Heavy Vehicles (HV%), %		5.96				32.62			
Initial	Average Speed (Sint), mi/h		61.5				60.6			
Averaç	ge Speed at Midpoint (SPLmid), mi	/h	63.2			58.9 6.1				
Percer	nt Followers at Midpoint (PFPLmid)	, %	11.8							
Vehi	cle Results									
Averaç	ge Speed, mi/h	61.1		Percent Followers	, %		16.0			
Segme	ent Travel Time, minutes	18.5	58	Followers Density, followers/mi/ln			0.4			
Vehicle	e LOS	А								
			Se	egn	nent 9			·		
Vehi	cle Inputs									
Segme	ent Type	Pass	sing Zone		Length, ft	22704				
Lane V	Vidth, ft	12			Shoulder Width, ft			6		
Speed	Limit, mi/h	55			Access Point Density, pts/mi			8.0		
Dem	and and Capacity	<u>'</u>								
Direct	ional Demand Flow Rate, veh/h	493			Opposing Deman	d Flo	w Rate, veh/h	285		
Peak F	Hour Factor	0.94	1		Total Trucks, %			3.76		
Segme	ent Capacity, veh/h	170	0		Demand/Capacity	/ (D/C	<u> </u>	0.29		
Inte	rmediate Results	<u> </u>						•		
Segme	ent Vertical Class	1			Free-Flow Speed,	mi/h		60.6		
Speed	Slope Coefficient	3.65	5951		Speed Power Coe	fficier	nt	0.51835		
PF Slo	pe Coefficient	-1.2	3352		PF Power Coefficie	ent		0.77779		
In Pas	sing Lane Effective Length?	Yes			Total Segment De	nsity,	veh/mi/ln	4.3		
%lmpı	roved % Followers	4.8			% Improved Avg	Speed	d	0.0		
	segment Data	<u> </u>						<u> </u>		
Subs	eginent bata									

1 Tangent	22704	1	58.3
Vehicle Results			
Average Speed, mi/h	58.3	Percent Followers, %	50.9
Segment Travel Time, minutes	4.42	Followers Density, followers/mi/ln	4.1
Vehicle LOS	С		







## **APPENDIX E** – Potential Transportation Environmental Protection Measures for the Fountain Wind Project

D			Implem	entation	
Resource Category	Measure	Preconstruction	Construction	Operations	Decommissioning
Transportation					
TRANS-1	[Project] will coordinate with CalTrans and Shasta County to	X	Х		
	implement a Transportation and Traffic Management Plan				
	that minimizes risks and inconvenience to the public, while				
	ensuring safe and efficient construction of the Project. The				
	plan will focus on turbine component deliveries, traffic and				
	circulation primarily within and in the vicinity of the Project				
	area. It will be designed to minimize potential hazards from				
	increased truck traffic and worker traffic and to minimize				
	impacts to traffic flow in the vicinity of the Project.				
TRANS-2	To minimize conflicts between Project traffic and background		X		
	traffic, deliveries of project components will be scheduled				
	around local volume peaks to the extent feasible.				
TRANS-3	Road clearances may include temporarily blocking road		Х		X
	intersections via construction cones and/or staffing blocked				
	intersections with a traffic-control flagger to allow haul trucks				
	sole access to the road while delivering Project components.				
	If required, public road closures are not expected to exceed				
	15 minutes during each/any road closure event.				
TRANS-4	The Project will coordinate with CalTrans to determine	X	X		
	whether temporary speed limit reductions during				
	construction are applicable where Project access points				
	intersect with State Highway 299.				
TRANS-5	Construction deliveries would be coordinated to avoid major		X		
	traffic-generating events in Redding, to the extent practicable.				
TRANS-6	The Project would coordinate with local law enforcement, to		X		X
	manage traffic flows and monitor traffic speed during				
	deliveries.				
TRANS-7	All staging activities and parking of equipment and vehicles		Х		
	would occur within the Project Area and would not occur on				
	maintained State Highways or County roads.				

Danassan Catagonia	Measure		Implem	entation	
Resource Category	ivieasure	Preconstruction	Construction	Operations	Decommissioning
TRANS-8	Equipment and material deliveries to the site would be		X		X
	performed by professional transportation companies familiar				
	with the type of equipment, loads involved, and U.S. DOT,				
	CalTrans, and Shasta County regulations.				
TRANS-9	Road signs would be erected to notify travelers and local		X		
	residents that construction is occurring in the area and				
	provide information regarding the timing and route for				
	oversized vehicle movements and deliveries. The				
	erection/placement of road signs and the Project construction				
	activities would be performed in accordance with the Shasta				
	County and CalTrans requirements.				
TRANS-10	Escort vehicles would assist delivery of oversized turbine		X		
	components to give drivers additional warning of oversized				
	loads.				



Intersection						
Int Delay, s/veh	0					
		EDD	14/51	\A/DT	A 11 A 71	A IVA (D
	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations	f)			र्	M	
Traffic Vol, veh/h	76	0	0	62	0	0
Future Vol, veh/h	76	0	0	62	0	0
Conflicting Peds, #/hr	_ 0	0	0	_ 0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None		None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	83	0	0	67	0	0
Major/Minor Ma	ajor1	ľ	Major2		Minor1	
Conflicting Flow All	0	0	83	0	150	83
Stage 1		U			83	
	-	-	-	-	67	-
Stage 2	-	-	1.40	-		
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	- 0.40	-	5.42	- 240
Follow-up Hdwy	-	-	2.218	-	3.518	
Pot Cap-1 Maneuver	-	-	1514	-	842	976
Stage 1	-	-	-	-	940	-
Stage 2	-	-	-	-	956	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1514	-	842	976
Mov Cap-2 Maneuver	-	-	-	-	842	-
Stage 1	-	-	-	-	940	-
Stage 2	-	-	-	-	956	-
Approach	EB		WB		NW	
			0		0	
HCM LOS	0		U			
HCM LOS					А	
Minor Lane/Major Mvmt	N	IWLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		-	-	-	1514	-
HCM Lane V/C Ratio		_	_	-	-	_
HCM Control Delay (s)		0	-	-	0	-
HCM Lane LOS		A	-	-	A	-
HCM 95th %tile Q(veh)		-	_	_	0	_
					- 0	

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Intersection						
Int Delay, s/veh	0					
		EDD	WDI	MOT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>^}</b>	0	0	<u>ર્</u> ન	M	0
Traffic Vol, veh/h	76	0	0	70	0	0
Future Vol, veh/h	76	0	0	70	0	0
Conflicting Peds, #/hr	0	_ 0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	83	0	0	76	0	0
Major/Minar	Mais -1	N.	Maioro		Min c = 1	
	Major1		Major2		Minor1	
Conflicting Flow All	0	0	83	0	159	83
Stage 1	-	-	-	-	83	-
Stage 2	-	-	-	-	76	-
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	-	-	1514	-	832	976
Stage 1	-	-	-	-	940	-
Stage 2	-	-	-	-	947	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	-	1514	-	832	976
Mov Cap-2 Maneuver	_	_	-	_	832	-
Stage 1	_	_	_	_	940	_
Stage 2			_		947	_
Glaye Z	_	-			J+1	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		0	
HCM LOS					A	
					- '	
					10/=:	
Minor Lane/Major Mvm	t l	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		-	-	-	1514	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	-	0	-
HCM Lane LOS		Α	-	-	Α	-
HCM 95th %tile Q(veh)		-	_	-	0	-

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Intersection						
Int Delay, s/veh	1					
		EDD	WDI	WDT	NI/A/I	NIMP
Movement	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations	140	<b>-</b> 4	7	<b>↑</b>	¥	0
Traffic Vol, veh/h	116	51	33	62	0	0
Future Vol, veh/h	116	51	33	62	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	
Storage Length	-	-	600	-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	126	55	36	67	0	0
Major/Minor M	ajor1	ı	Major2	- 1	Minor1	
Conflicting Flow All	0	0	181	0	293	154
Stage 1		U	101	-	154	154
	-	-	_		139	
Stage 2	-	-		-		6.00
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	-	-	1394	-	698	892
Stage 1	-	-	-	-	874	-
Stage 2	-	-	-	-	888	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1394	-	680	892
Mov Cap-2 Maneuver	-	-	-	-	680	-
Stage 1	-	-	-	-	874	-
Stage 2	-	-	-	-	865	-
Approach	EB		WB		NW	
			2.7			
HCM LOS	0		2.1		0	
HCM LOS					А	
Minor Lane/Major Mvmt	N	IWLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		_	-		1394	_
HCM Lane V/C Ratio		_	_		0.026	_
HCM Control Delay (s)		0	-	_	7.7	_
HCM Lane LOS		A	_	_	Α	_
HCM 95th %tile Q(veh)		-	_	_	0.1	_
TOW JOHN JUNIO Q(VOII)					0.1	

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Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>		7	<u>₩</u>	W	TI DIT
Traffic Vol, veh/h	76	40	27	103	0	0
Future Vol, veh/h	76	40	27	103	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	-	-	600	-	0	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	83	43	29	112	0	0
Maion/Minor	Mairud		Asia -O		Minoral	
	Major1		Major2		Minor1	40-
Conflicting Flow All	0	0	126	0	275	105
Stage 1	-	-	-	-	105	-
Stage 2	-	-	-	-	170	-
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	-	-	1460	-	715	949
Stage 1	-	-	-	-	919	-
Stage 2	-	-	-	-	860	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1460	-	701	949
Mov Cap-2 Maneuver	-	-	-	-	701	-
Stage 1	-	-	-	-	919	-
Stage 2	-	-	-	-	843	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		1.6		0	
HCM LOS	0		1.0		A	
TIOWI LOO					Λ.	
Minor Lane/Major Mvn	nt 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		-	-	-	1460	-
HCM Lane V/C Ratio		-	-	-	0.02	-
HCM Control Delay (s)		0	-	-	7.5	-
HCM Lane LOS		Α	-	-	Α	-
HCM 95th %tile Q(veh		-	-	-	0.1	-
•						

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations		LUI	YVDL		NVVL	TAVVIX
Traffic Vol, veh/h	80	4	4	<b>T</b> 62	<b>T</b>	0
Future Vol, veh/h	80	4	4	62	0	0
	0	0	0	02	0	0
Conflicting Peds, #/hr						
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	600	-	0	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	87	4	4	67	0	0
Major/Minor I	Major1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	91	0	164	89
Stage 1	-	-	-	-	89	-
Stage 2	-	-	- 4.40	-	75	- 0.00
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	-	-	1504	-	827	969
Stage 1	-	-	-	-	934	-
Stage 2	-	-	-	-	948	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	_	1504	_	825	969
Mov Cap-2 Maneuver	_	_	-	_	825	-
Stage 1	_			_	934	_
•		-	-	-	945	
Stage 2	-		_		945	-
Approach	EB		WB		NW	
HCM Control Delay, s	0		0.4		0	
HCM LOS					A	
					, ,	
Minor Lane/Major Mvm	it N	IWLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		-	-	-	1504	-
HCM Lane V/C Ratio		-	-	-	0.003	-
HCM Control Delay (s)		0	-	-	7.4	-
HCM Lane LOS		Α	-	-	Α	-
HCM 95th %tile Q(veh)		-	-	_	0	-

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Intersection						
Int Delay, s/veh	0.2					
		EDD	\\/DI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>1</b>	4	<u> </u>	<b>↑</b>	Y	
Traffic Vol, veh/h	76	4	4	74	0	0
Future Vol, veh/h	76	4	4	74	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
0	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	600	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	83	4	4	80	0	0
B.A ' /B.A'	4		4.1.0		A'	
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	87	0	173	85
Stage 1	-	-	-	-	85	-
Stage 2	-	-	-	-	88	-
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	-	-	1509	-	817	974
Stage 1	-	-	-	-	938	-
Stage 2	_	-	_	_	935	_
Platoon blocked, %	_			_	- 500	
Mov Cap-1 Maneuver	_		1509	_	815	974
Mov Cap-2 Maneuver	_		1505	_	815	-
		-			938	
Stage 1	-	-		-		
Stage 2	-	-	-	-	932	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.4		0	
HCM LOS	U		0.7		A	
TIONI LOS					А	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		-	_	_	1509	-
HCM Lane V/C Ratio			_	_	0.003	-
		0	_	_	7.4	_
HCM Control Delay (s)		U			т.т	
HCM Control Delay (s)		А	_	_	Δ	_
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)		A	-	-	A 0	-

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Intersection						
Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations	f)	LDI	TYDL	₩ <u>₩</u>	NVL.	144417
Traffic Vol, veh/h	138	0	0	133	0	0
Future Vol, veh/h	138	0	0	133	0	0
	0	0	0	0	0	0
Conflicting Peds, #/hr						
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	110110	-	None		None
Storage Length	- 44 0	-	-	-	0	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	150	0	0	145	0	0
Major/Minor	Majort		Major	P	Minor1	
	Major1		Major2		Minor1	450
Conflicting Flow All	0	0	150	0	295	150
Stage 1	-	-	-	-	150	-
Stage 2	-	-	-	-	145	-
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	-	-	1431	-	696	896
Stage 1	-	_	-	-	878	-
Stage 2	_	_	_	_	882	_
Platoon blocked, %	_	_		_	302	
Mov Cap-1 Maneuver			1431	_	696	896
		_	1401		696	
Mov Cap-2 Maneuver		-	-	-		-
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	882	-
Approach	EB		WB		NW	
			0		0	
HCM Control Delay, s	- 0		U			
HCM LOS					Α	
Minor Lane/Major Mvr	nt l	VWLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		_			1431	-
HCM Lane V/C Ratio			_	_	-	_
HCM Control Delay (s	)	0				
	)		-	-	0	-
HCM Lane LOS	. \	Α	-	-	A	-
HCM 95th %tile Q(veh	1)	-	-	-	0	-

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Intersection						
Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u>□□□</u>	LDK	VVDL	₩ 4	INDL W	אטוז
Traffic Vol, veh/h	143	0	0	119	0	0
Future Vol, veh/h	143	0	0	119	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		Stop -	None
Storage Length	-	-	-	-	0	NOITE
Veh in Median Storage,	# 0	-	_	0	0	
Grade, %	0	-	_	0	0	-
Peak Hour Factor	92	92	92	92	92	92
	2	2	2	2	2	2
Heavy Vehicles, % Mvmt Flow	155	0	0	129	0	0
IVIVIIIL FIOW	100	U	U	129	U	U
Major/Minor M	lajor1	ľ	Major2	ľ	Minor1	
Conflicting Flow All	0	0	155	0	284	155
Stage 1	-	-	-	-	155	-
Stage 2	-	-	-	-	129	-
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	_	_	1425	_	706	891
Stage 1	-	-	-	-	873	-
Stage 2	_	_	_	_	897	_
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	_	1425	_	706	891
Mov Cap-2 Maneuver	_	_	-	_	706	-
Stage 1	_	_	_	_	873	_
Stage 2	_	_	_	_	897	_
Olage 2					001	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		_			1425	
HCM Lane V/C Ratio		_	_	_	1425	-
HCM Control Delay (s)		0	_	_	0	_
HCM Lane LOS		A	_	_	A	-
HCM 95th %tile Q(veh)					0	_
TOWN JOHN JOHN GUILD WINGER					U	

PM Background Conditions

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Page 2

Intersection						
Int Delay, s/veh	1.3					
		EDD	MDI	MOT	N IV A /I	NIVAD
Movement	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations	f)		<u>ነ</u>		Y	10
Traffic Vol, veh/h	138	0	0	155	27	18
Future Vol, veh/h	138	0	0	155	27	18
Conflicting Peds, #/hr	0	0	0	0	0	0
0	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	600	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	150	0	0	168	29	20
B.A /B.A	4		4.1.0		M'	
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	150	0	318	150
Stage 1	-	-	-	-	150	-
Stage 2	-	-	-	-	168	-
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	-	-	1431	-	675	896
Stage 1	-	-	-	-	878	-
Stage 2	_	-	_	_	862	_
Platoon blocked, %	_			_	302	
Mov Cap-1 Maneuver	_		1431	_	675	896
Mov Cap-1 Maneuver	_		-	_	675	-
Stage 1		_			878	_
•	-	-	-	-		
Stage 2	-	-	-	-	862	-
Approach	EB		WB		NW	
HCM Control Delay, s	0		0		10.1	
HCM LOS					В	
Minor Lane/Major Mvmt	N	IWLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		749	-	-	1431	-
HCM Lane V/C Ratio		0.065	-	-	-	-
HCM Control Delay (s)		10.1	-	-	0	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)		0.2	-	-	0	_
( · o · · )						

PM During Construction

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Page 1

Intersection						
Int Delay, s/veh	1.2					
	EBT	EDD	\\/DI	\//DT	NDI	NDD
Movement		EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>þ</b>	0	ች	110	<b>Y</b>	4.5
Traffic Vol, veh/h	161	0	0	119	22	15
Future Vol, veh/h	161	0	0	119	22	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	600	-	0	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	175	0	0	129	24	16
Major/Minor	Major1	, and the second	Majora		Minor1	
	Major1		Major2			475
Conflicting Flow All	0	0	175	0	304	175
Stage 1	-	-	-	-	175	-
Stage 2	-	-	-	-	129	-
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	-	-	1401	-	688	868
Stage 1	-	-	-	-	855	-
Stage 2	-	_	_	-	897	_
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	1401	_	688	868
Mov Cap-1 Maneuver	_		-	_	688	-
Stage 1		-			855	_
•	-	-		-	897	
Stage 2	-	-	-	-	ō9 <i>1</i>	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.1	
HCM LOS	U		U		В	
TIOIVI LOO					D	
Minor Lane/Major Mvm	nt l	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		751	-	-	1401	-
HCM Lane V/C Ratio		0.054	-	-	-	-
HCM Control Delay (s)	)	10.1	-	-	0	-
HCM Lane LOS		В	_	_	A	_
HCM 95th %tile Q(veh	)	0.2	_	_	0	_
	1	V.2				

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations	<b>1</b>	רטול	YVDL	VVD1	NVVL	TAVVIX
Traffic Vol, veh/h	138	0	0	137	<b>T</b> 4	4
Future Vol, veh/h	138	0	0	137	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	riee -	None	riee -	None	Stop -	None
	-		600			
Storage Length		-		-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	150	0	0	149	4	4
Major/Minor N	/lajor1		Major2		Minor1	
Conflicting Flow All	0	0	150	0	299	150
Stage 1	-	U	150	-	150	150
· ·	-	-		-	149	
Stage 2 Critical Hdwy		-	4.12		6.42	6.22
	-	-		-		
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	- 0.040	-	5.42	- 0.40
Follow-up Hdwy	-	-	2.218		3.518	
Pot Cap-1 Maneuver	-	-	1431	-	692	896
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	879	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1431	-	692	896
Mov Cap-2 Maneuver	-	-	-	-	692	-
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	879	-
<u> </u>						
A			1475		A 11 A 1	
Approach	EB		WB		NW	
HCM Control Delay, s	0		0		9.7	
HCM LOS					Α	
Minor Lane/Major Mvmt	N	IWLn1	EBT	EBR	WBL	WBT
	. IV		LDI			VVDT
Capacity (veh/h)		781	-	-	1431	-
HOMI MOD "		0.011	-	-	-	-
HCM Court Delever(a)						
HCM Control Delay (s)		9.7	-	-	0	-
			-	-	0 A 0	-

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ.		ሻ	<b></b>	¥	
Traffic Vol, veh/h	147	0	0	126	4	4
Future Vol, veh/h	147	0	0	126	4	4
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	600	-	0	-
Veh in Median Storag	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	160	0	0	137	4	4
Majar/Miner	NA=:4		Maisa		Almorat	
Major/Minor	Major1		Major2		Minor1	400
Conflicting Flow All	0	0	160	0	297	160
Stage 1	-	-	-	-	160	-
Stage 2	-	-	-	-	137	-
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	-	-	1419	-	694	885
Stage 1	-	-	-	-	869	-
Stage 2	-	-	-	-	890	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1419	-	694	885
Mov Cap-2 Maneuver		-	-	-	694	-
Stage 1	-	-	-	-	869	-
Stage 2	-	-	-	-	890	-
<del>-</del>						
Δ			1475		p. 100	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		9.7	
HCM LOS					Α	
Minor Lane/Major Mvr	nt I	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		778	-	-	1419	-
HCM Lane V/C Ratio		0.011	-	-	1419	-
HCM Control Delay (s	.)	9.7			0	-
HCM Lane LOS	1)	9.7 A	-	-	A	-
HCM 95th %tile Q(vel	2)	0	-	-	0	-
HOW SOUL WILL WINE	1)	U	-	-	U	-

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Table 9-25. Suggested Left-Turn Treatment Guidelines Based on Results from Benefit–Cost Evaluations for Intersections on Two-Lane Highways in Rural Areas ( *16*)

Left-Turn Lane Peak-Hour Volume (veh/h)	Three-Leg Intersection, Major-Road Two-Lane Highway Peak-Hour Volume (veh/h/ln) that Warrants a Bypass Lane	Three-Leg Intersection, Major-Road Two-Lane Highway Peak-Hour Volume (veh/h/ln) that Warrants a Left-Turn Lane	Four-Leg Intersection, Major-Road Two-Lane Highway Peak-Hour Volume (veh/h/ln) that Warrants/a Left-Turn Lane
5	50	200	150
10	50	100	50/
15	< 50	100	<b>≫</b>
20	< 50	50	£ 50
25	< 50	50	< 50
30	< 50	50	< 50
35	< 50	50	< 50
40	< 50	50	< 50
45	< 50	50	< 50
50 or More	< 50	50	< 50

Note: These guidelines apply where the major road is uncontrolled and the minor-road approaches are stop- or yield-controlled. Both the left-turn peak-hour volume and the major-rad volume warrants should be met as shown in Figure 9-36.

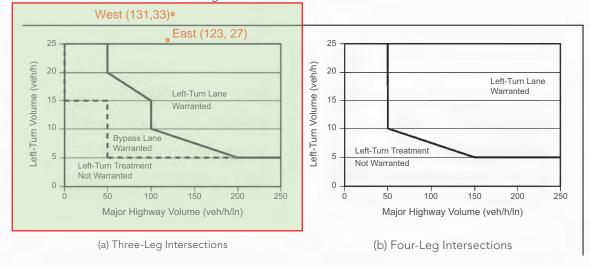


Figure 9-36. Suggested Left-Turn Treatment Warrants Based on Results from Benefit–Cost Evaluations for Intersections on Two-Lane Highways in Rural Areas (16)



Data Request Identifier	Request Source	Topic	Information	Adequate	Information Required To Make AFC Conform With Regulations	Applicant Response
	Deficiency Letter Matrix	Traffic and Transportation	provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	No	Please expand the analysis of Impact 3.14-2. Impact 3.14-2 of Secion 3.14.3 (Direct and Indirect Effects) presents the analysis of the project relative to CEQA Guidelines Section 15064.3(b), which relates to the evaluation of a project's transportation impacts. Specifically, analysis using vehicle miles of travel (VMT) is identified as the most appropriate measure for the analysis of transportation impacts. The analysis of Impact 3.14-2 relies on GHG analysis in Sections 3.10, GHG Emissions, since the intent of SB 743 is to encourage land use and transportation planning decisions and investments that reduce VMT threshold, the County decided to rely on an established environmental standard that is protective of resources of legislative concern. The less-than-significant impact finding is in part a result of a potential net offset of annual CO2e emissions with implementation (i.e., due to ongoing power generation). The VMT analysis demonstrates that the project will result in a short-term increase in VMT during construction. However, no discussion or analysis is presented of potential TDM strategies (carpooling, ridesharing, etc) or other measures that could be implemented to reduce VMT during construction, although identified in Appendix H, Page 17.	
	Deficiency Letter Matrix	Traffic and Transportation	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local oregional plan.	r No	Please update Section 3.14.1.3 (Regulatory Setting) of the DEIR Transportation Section. The Regulatory Setting should include reference to the Regional Transportation Plan & Sustainable Communities Strategy for the Shasta Region and Caltrans Transportation Concept reports for each State route in the study area. Also please verify the scale of Exhibit 1 of the Traffic report.	The Regulatory Setting section of the CEC EIR made a reference to the Regional Transporation Plan and Sustainable Communities Strategy for the Shasta Region (2015) and the Route 299 TCR (210). Links to these documents are provided here: https://dot.ca.gov/-/media/dot-media/district-1/documents/Signed-FINAL-299-TCR-12_10-a11y and https://www.srta.ca.gov/142/Regional-Transportation-Plan. Table 1.2 of the Updated TIA for more information about the functional classification, truck route designations, and weight and load limitations of California State Route 299. Exhibit 1 is scaled as printed.
TRAF-004	Deficiency Letter Matrix	Traffic and Transportation	An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines, (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following, where applicable:	No	Please expand the description of regional and local roadways affected and/or serving the proposed project. For logical study segments, the descriptions should summarize the roadway functional classification number of directional travel lanes, posted speed limits, average daily traffic volumes served, applicable weight restrictions, and truck route designation.  Also please verify the scale of Exhibit 1 of the Traffic report.	The requested information is included in Tables 1.1 and 1.2 of the revised report.  Each exhibit is scaled as printed.
TRAF-005	Deficiency Letter Matrix	Traffic and Transportation	Road classification and design capacity;	No	Please update the capacities documented in Table 3.14-2. The hourly capacities presented are base capacity values, representative of ideal conditions. Base capacities do not account for the impacts of heavy vehicles, grades or other sources of friction that will lower the capacity of a freeway or highway lane.	The capacities have been updated in Table 1.1 of the revised report as requested.
TRAF-006a	Deficiency Letter Matrix	Traffic and Transportation	Current daily average and peak traffic counts;	No	Please collect new average daily vehicle traffic counts. Traffic data from Caltrans Traffic Census Program, representing 2017 conditions, is documented. The data provided through the Caltrans Traffic Census Program are traffic volume estimates and not actual counts. In addition, the data is pre COVID-19 Pandemic and does not capture post pandemic changes in travel behavior. 24-hour vehicle classification traffic counts should be collected (in 15-minute increments) for a minimum three days (Tuesday, Wednesday, Thursday), during a representative time of year.	projected access locations and are presented in Table 1.1 of the
TRAF-007	Deficiency Letter Matrix	Traffic and Transportation	Current and projected levels of service before project development, during construction, and during project operation;	No	Please update roadway capacity and intersection operations analysis. As outlined above, the roadway capacity analysis was conducted using base capacity values that do not account for the impacts of heavy vehicles, grades or other sources of friction that will lower the capacity of a freeway or highway lane. In addition, the analysis needs to be updated based on new traffic count data.	The analyses have been revised as requested. Results are presented in Table 1.1 and Appendix D of the Undated TIA
TRAF-008	Deficiency Letter Matrix	Traffic and Transportation	Weight and load limitations;	No	Please expand the description of regional and local roadways affected and/or serving the proposed project. Identify weight and load limitations on study roadways.	The requested information is included in Table 1.2 of the revised report.
TRAF-009	Deficiency Letter Matrix	Traffic and Transportation	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	No	Please collect new average daily vehicle traffic counts. The heavy vehicle percentages from Caltrans Traffic Census Program on SR 299 are provided. The data is pre COVID-19 Pandemic and does not capture post pandemic changes in travel behavior. 24-hour vehicle classification traffic counts should be collected (in 15-minute increments) for a minimum three days (Tuesday, Wednesday, Thursday), during a representative time of year when construction is anticipated.	Average Daily Vehicle Traffic Counts have been collected near the projected access locations and are presented in Table 1.1 of the report. Raw traffic data is included in Appendix B of the report.
TRAF-010	Deficiency Letter Matrix	Traffic and Transportation	An identification of any road features affecting public safety.	No	Please collect collision records on study roadways. Collect and map the most recent 3- year collision data available for the study corridors to identify locations where road features or characteristics may be affecting public safety. Expand impact discussion Impact 3.14-3 to incorporate relevant findings of collision analysis.	The requested information is included in Table 1.2 of the revised report.

Data Request Identifier	Request Source	Topic	Information Adequate	Information Required To Make AFC Conform With Regulations	Applicant Response
TRAF-006b	Deficiency Letter Matrix	Traffic and Transportation	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in $(g)(5)(C)$ . Also include anticipated project specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in $(g)(5)(C)$ .	Please see above.	Please refer to Table 1.1 and Section 8.0 of the Updated TIA.
	Deficiency Letter Matrix	Traffic and Transportation	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed.	The Law, Ordinance, Regulation, or Standard Consistency Matrix (TN 248290) doees not identify the specific Shasta County Code ordinances or standards that are applicable during constrution and operation of the proposed facility.	See Section 8.1 of the Updated TIA; Please also see LORS Matrix submitted as TN# 249636.
	Deficiency Letter Matrix	Traffic and Transportation	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	Please provide agency contact information. The DEIR list of federal, state, and local agencies consulted does not include the contact's phone number, address, email address, or the subject matter relevant to the contact. The list does not indicate who should sere as the contact person for Commission staff.	N/A. Applicant to provide requested information outside of traffic study. Please see table with local agency contact information submitted as TN# 249533.
TRAF-004	Follow-up Questions	Traffic and Transportation	A description of the methodology applied and the software used to complete the capacity analysis is missing.	Not provided by CEC with follow-up questions	Roadway capacity analysis was performed with HCS Software for the pre-construction, construction, and post-construction scenarios.  Traffic data collected by Caltrans in 2020 and roadway characteristics observed from desktop review (i.e., speed limit, number and width of lanes, etc.) were used to calculate roadway capacity.  Project access Level of Service (LOS) methodology is described in Section 8.2.
TRAF-010	Follow-up Questions	Traffic and Transportation	An analysis of the collision records is missing. Table 1.2 of the revised report (TN# 250644) includes total number of collisions. However, no information is provided relative to how the collision rates compare to statewide averages for similar facilities or how the characteristics of the roadway that may be affecting public safety or contributing to the reported collisions?	Not provided by CEC with follow-up questions	Noted. To facilitate statewide crash averages for similar facilities in California, crash comparisons were initially performed for the most recent year, 2020. However, due to the Covid-19 pandemic, Westwood expanded crash data analysis to include the years 2018, 2019, and 2020 to ensure any pandemic outliers did not skew data analysis. To include the expanded data set, Table 1.2 was updated and Table 1.3 was added to reflect additional crash analysis within boundaries of the project site commuter and delivery routes, in conjunction with statewide data (see Appendix C). The crash rates along the roadway segments of SR 299 are less than the statewide averages for similar 4-lane divided and 2/3-lane facilities.
TRAF-001	Follow-up Questions	Traffic and Transportation	Thank you for provinding the inputs for the VMT calculation in Exhibit 4. Please confirm the total VMT calculation, which shows 4,766,749. It appears that the Total Aggregate for Compaction Deliveries may have been double counted.  However, Exhibit 4 of the updated Traffic Impact Analysis (TN# 250985) does not quantify the potential reduction in VMT through implementation of carpooling.  Also, the calculation of VMT per capita in the 4th paragraph Section 8.1 (Page 16) of the revised report (TN# 250985) should identify the assumed vehicle occupancy. It appears to be 2 employees per vehicle. Please confrom and update the analysis accordingly.	Not provided by CEC with follow-up questions	Thank you for the comment. The VMT for the Total Aggregate for Compaction Deliveries has been double counted. The revised VMT is 4,283,329. A revised Exhibit 4 is included in the attached revised traffic impact analysis.  The VMT assumes a vehicle occupancy of 2 full time employees per truck. The 36,966 two-way truck trips that were calculated from the developer's full time labor calculations were derived with this assumption. Please refer to the revised Exhibit 4.  The calculation of post-construction VMT per capita in Section 8.1 has been updated to identify the originally assumed vehicle occupancy of 2 full time employees per truck.
TRAF-004	Follow-up Questions	Traffic and Transportation	Please describe in the text of Section 8.2 of the updated Traffic Impact Analysis (TN# 250985) which Highway Capacity Manual (HCM) methodologies were applied using the Highway Capacity Software (HSC).	Not provided by CEC with follow-up questions	2 full time employees per truck A description of the methodology applied and the software used to complete the roadway capacity analysis was added to Section 3.0 of the report.  The LOS analyses for the project accesses in Synchro/SimTraffic are based on the Two-Way Stop Control (TWSC) methodology from the 6th edition of the Highway Capacity Manual (HCM). This description has been added in Section 8.2 of the report.
TRAF-010	Follow-up Questions	Traffic and Transportation	The comparison of the collision rates to statewide averages was responsive to the request.  Please review the statewide averages that are being used for the comparison to make sure the correct rates are be appliced, relative to the area type that the roadways are located (i.e., Urban vs. Rural). In addition, the conclusion of the analysis presented in Applicant Response No.2 should be incorporated into the text to discuss the conclusions of the analysis presented in Table 1.3 of the updated Traffic Impact Analysis (TN# 250985).  The characteristics of the collisions (i.e., primary collision factors) and any characteristics of the roadways that may be affecting public safety was not addressed.	Not provided by CEC with follow-up questions	Noted.  Based on roadway geometry and proximity to urban centers, the following segments are characterized as "Urban": I-5 to Hawley Road, Hawley Road to Old Oregon Trail, Tamarack Road to Elm Street, and Elm Street to Plumas Street. All other segments not specified above are characterized as "Rural". The conclusion of the analysis presented in Applicant Response No. 2 has been incorporated into Section 3.0 of the text.  Of the 81 crashes observed along SR-299, of which were 7 fatal crashes, 40% had an "Improper Turning" Primary Crash Factor (PCF). For fatal crashes, the predominant PCF, comprising of 43% of all fatal crashes was due to "Improper Turning". 75% of all crashes occurred under daylight conditions, and 99% of crashes occurred on roads with "No Unusual Conditions". Based on these results, the crashes observed along SR-299 appear to be due to driver behavior instead of roadway characteristics.