

March 29, 2022

Erwin Architecture & Development

Attn: William Erwin

RE: Traffic Statement, Arabella Spa, Sedona, AZ

This traffic statement is prepared to support the development of a 21,129 SF luxury spa in Sedona Arizona, where 21,031 SF is indoor space, and 525 SF is outdoor space. The statement documents the existing traffic patterns, potential traffic impacts, and recommendations for the proposed Arabella Spa in Sedona, AZ.

SITE BACKGROUND

The project is proposed south of Sombart Lane, east of SR 179 in Sedona, AZ. The total site area is 231,673 square feet (SF) with a total building footprint of 21,031 SF and an additional 525 SF of outdoor space. The project will consist of a luxury spa and associated amenities. The owner of the development also owns the existing Arabella Hotel on the parcel to the west. The site location is shown in **Figure 1** below.

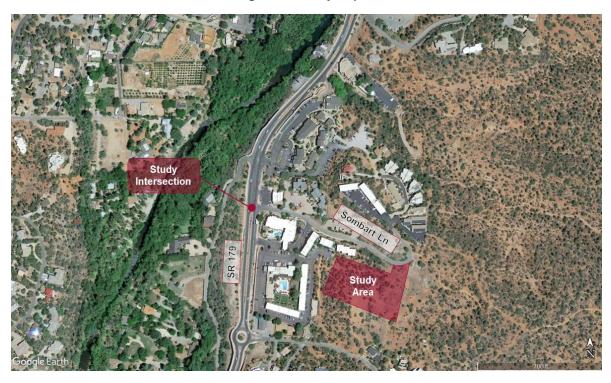


Figure 1. Vicinity Map

The proposed spa is to be located on the south side of Sombart Lane and be accessed by two driveways. Most of the parking for the development, however, will be contained on the north side of Sombart Lane and connect to the existing parking lot serving the Arabella Hotel to the west. There will be one new access to the combined lot.

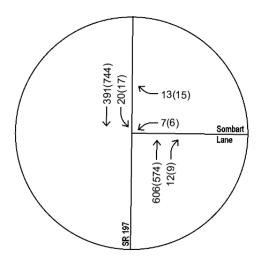
TRAFFIC COUNTS

Peak period turning movement counts were collected at the study intersection of SR 179 and Sombart Lane on Tuesday, November 2nd, 2021. The counts were collected between 7:00 AM and 9:00 AM and between 4:00 PM and 6:00 PM for AM and PM peak hours respectively.

Daily traffic (24-hour) counts were collected on Tuesday, November 2nd, 2021 on Sombart Lane just east of SR 179. The daily traffic volume observed on Sombart Lane was 776 vehicles.

The results of the peak-hour turning movement counts are shown in **Figure 2**. A copy of the traffic count data is included as **Attachment A**.

Figure 2. Existing Traffic Volumes





TRIP GENERATION

Institute of Transportation Engineers' (ITE) *Trip Generation Manual, 11th Edition* was used to estimate the number of trips generated the proposed spa. ITE Land Use Code 931 – Quality Restaurant and Land Use Code 493 – Athletic Club daily and peak hour trip generation rates and inbound-outbound percentages were obtained. The 21,031 SF building footprint is split between 19,463 SF of Spa space and 1,568 SF of restaurant space, with an additional 525 SF of outdoor space allotted to the restaurant. Trip generation rates for the proposed land uses include:

ITE Land Use 493 - Athletic Club

*Daily rate: Trips = PM peak hour trips / 0.10 (50% in / 50% out)

AM peak rate: Trips = 3.16* ksf (61% in / 39% out)

PM peak rate: Trips = 6.29* ksf (62% in / 38% out)

*LLC 403 does not include a deily rate, but it is generally appeared that the PM peak be

*LUC 493 does not include a daily rate, but it is generally accepted that the PM peak hour is approximately 10% of the daily trips.

ITE Land Use 931 - Quality Restaurant

 Daily rate:
 Trips = 83.84* ksf
 (50% in / 50% out)

 AM peak rate:
 Trips = 0.73* ksf
 (80% in / 20% out)

 PM peak rate:
 Trips = 7.80* ksf
 (67% in / 33% out)

Due to the shared ownership of the adjacent hotel property, there is the potential that spa patrons would also be staying at the hotel to the west. This shared use is anticipated to reduce the total number of external vehicle trips to the spa. To estimate the shared use reduction, the internal capture percentages per ITE's *Trip Generation Manual, 9th Edition* between retail (the spa) and residential (the hotel) were applied to the trip generation of the site to determine net external trips. This reduction is shown in the removal of internal capture trips. Internal capture for the development is estimated to be a daily rate of 38%, AM peak hour rate of 34%, and PM peak hour of 53%. Trip generation for the site is summarized in **Table 1**.

Table 1: Trip Generation Summary

Land Use	Land Use	Size/Qty	Units	Delly	AM Peak Hour			PM Peak Hour		
Lanu USE	Code	Size/Qty	Ullits	Daily	ln	Out	Total	ln	Out	Total
Athletic Club	493	19.463	ksf	1230	38	24	62	76	47	123
Quality Restaurant	931	2.095	ksf	176	2	1	3	11	5	17
SUBTO	TAL	21.556	ksf	1,406	40	25	65	87	53	140
Internal Capture			-687	-13	-9	-23	-46	-29	-75	
	TOTAL		1121	27	16	42	41	24	65	

Based on ITE calculations it is estimated that the proposed Arabella Spa will generate 1121 daily trips with 42 occurring in the AM peak hour and 65 occurring in the PM peak hour. Trip generation calculations are included in Attachment B.

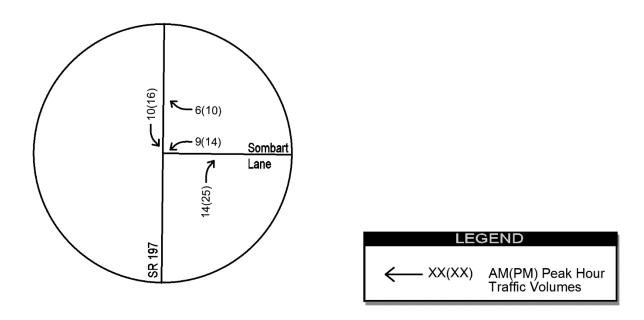
TRANSIT CONNECTIVITY

The Arabella Hotel plans to offer a shuttle service, providing connectivity to the Spa and trailhead to locations through Sedona, including other hotels. With the implementation of the shuffle stop at the Spa, it is anticipated that the vehicle trips produced by the spa will be reduced since customers using the spa may utilize the shuttle service rather than a personal vehicle.

PROJECTED TRAFFIC

Trips generated by the proposed development were assigned to the roadway network based on the trip distribution observed in the collected traffic counts. **Figure 3** shows the projected traffic assignment.

Figure 3. Site Traffic Volumes

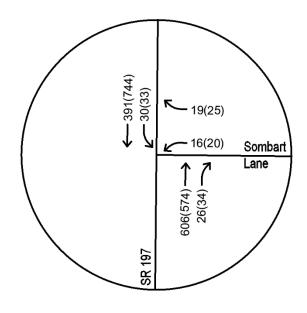


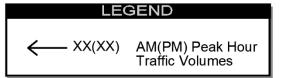
TOTAL TRAFFIC

The results of the traffic assignment (**Figure 2**) for the projected development were added to the existing traffic volumes (**Figure 1**) to produce total traffic volumes for the study intersection.

Figure 4 shows the total weekday traffic volumes for the study intersection.

Figure 4. Total Traffic Volumes





LEVEL OF SERVICE AND DELAY ANALYSIS

Existing Level of Service

The level of service (LOS) under existing conditions was evaluated for the study intersection using the traffic count data previously described. Synchro 11 software and HCM 6th Edition methodology was used to generate LOS and delay for the intersection.

Existing intersection geometry and conditions were used to obtain LOS and delay. The results of this analysis are shown in **Table 2** and reported as "LOS/delay". Existing LOS and analysis reports are included in **Attachment C**.

NB Approach SB Approach **EB Approach WB Approach** Intersection Т R т R Т R т R SR 179 & Sombart Lane AM Peak A/9 sec C/17 sec PM Peak A/9 sec C/19 sec

Table 2. Existing Level of Service and Delay

Per ADOT standards, the intersection of SR 179 and Sombart Lane is operating at an acceptable LOS under existing conditions.

Total Level of Service

The study intersection was evaluated based on total traffic, combining existing traffic, and expected site traffic. The results of the analysis are shown in **Table 3**.

The addition of project traffic the westbound approach is operating at LOS D (28 seconds delay) in the PM peak hour, an 8 second increase in delay from existing conditions. Although ADOT requires LOS C on state highways, LOS D may be acceptable per ADOT TGP 240 in urban areas. Considering that the 95th percentile queue for the westbound movement is only 1 vehicle in the total traffic PM scenario and there is less than 30 seconds of delay overall, LOS D is not anticipated to cause adverse impacts to the study intersection. Total Traffic LOS and analysis reports are included in **Appendix C**.

Table 3. Total Level of Service and Delay

AUXILARY LANE ANALYSIS

The intersection of SR 179 and Sombart Lane has an existing northbound right turn lane and southbound left turn lane. The northbound right turn lane has a storage length of 205'. The southbound left turn lane is a two-way center median with a storage length of 175' to the nearest driveway.

Free movement; no LOS calculated

⁻ Free movement; no LOS calculated

The northbound right turn lane is anticipated to have no queue after development occurs because the movement is free flow, and the southbound left turn lane has a queue of 0.1 vehicles for the 95th percentile queue. No configuration changes are recommended at the intersection of SR 179 and Sombart Lane.

It is projected that 56 vehicles will travel on to Sombart Lane in the AM peak hour and 65 vehicles in the PM peak hour after development. Minimal volume in the through movement on Sombart Lane anticipates that no auxiliary lanes at the spa driveway will be necessary.

PARKING ANALYSIS

The City of Sedona requires minimum parking ratios to be met for the development. The ratios required by the City for restaurant and spa space are:

- Restaurant (Greater than 1,000 SF): 1 space per 100 SF
 - Outdoor Dining: If outdoor dining area is lea than 20 percent of the size of the indoor dining area then no additional parking is required. If outdoor dining area is 20% or more of the size of the indoor dining, then the outdoor dining areas that exceed 20% of the indoor dining areas shall providing additional parking at a rate of 1 space per 100 SF.
- Personal Services, General: 1 space per 250 SF

Per the minimum parking requirements set by the City of Sedona, the development would require a total of 96 spaces, as shown in **Table 4**.

Land Use	Units (SF)		Ratio	Number of Spaces
Spa	19,463	1 Space per 250 SF		78
Indoor Dining	1,568	1 Space	ce per 100 SF	16
Outdoor Dining	525	22%	1 Space per 100 SF exceeding 20%	0.708
Total	21,556		96	

Table 4. City of Sedona Parking Requirements

Due to shuttle access and the location of the development on the Arabella Hotel site, parking requirements for the site will likely be reduced due to shared parking and transit opportunities. The daily internal capture rate per ITE is 38%. A reduction of 38% is recommended due to these factors, resulting in **60 parking spaces** being provided for the development.

RECOMMENDATIONS

This report documents the traffic impact analysis (TIA) for a Spa to be developed west of the intersection of SR 179 and Sombart Lane in Sedona, Arizona. The development will consist of 21,031 SF of building space and 525 SF of additional outdoor space, with a total site area of 68,905 SF. The development is anticipated to generate 1,121 daily trips, with 42 trips occurring in the AM peak hour and 65 trips in the PM peak hour.

It is recommended that the City should extend the sidewalk on the south side of Sombart Lane to include the project frontage. Extension of the sidewalk will increase spa accessibility to hotel

patrons and increase safety for pedestrians. The proposed parking lot should be constructed to maintain trail access to Marg Draw Trail.

The study intersection of SR 179 and Sombart Lane operates at acceptable level of service within existing conditions. The addition of project traffic the westbound approach is operating at LOS D (28 seconds delay) in the PM peak hour, an 8 second increase in delay from existing conditions. Although ADOT requires LOS C on state highways, LOS D may be acceptable per ADOT TGP 240 in urban areas. Considering that the 95th percentile queue for the westbound movement is only 1 vehicle in the total traffic PM scenario and there is less than 30 seconds of delay overall, LOS D is not anticipated to cause adverse impacts to the study intersection. No intersection improvements are recommended per the LOS and delay analysis.

No additional auxiliary lanes are recommended at the intersection of SR 179 and Sombart Lane or at the future driveway intersections. The existing northbound right turn lane and southbound left turn lanes on SR 179 are not recommended to be adjusted.

The City of Sedona requires a minimum of 96 parking spaces for the proposed development. Due to the shuttle access to various destinations throughout Sedona and the location of the development on the Arabella Hotel site, it is expected that parking demand will be lower than what is required. A parking reduction of 38% is recommended per ITE daily internal capture rates, resulting in 60 spaces recommended for the development.

Please let me know if you have any questions. I can be reached at 958-458-7121, or andrew.baird@kimley-horn.com.

Andrew Baird, P.E. Associate

Attachments:

Attachment A: Count Data Attachment B: Trip Generation

Attachment C: Existing & Total Synchro Reports

Attachments

Attachment A: Count Data

Prepared by: Field Data Services of Arizona/Veracity Traffic Group (520) 316-6745

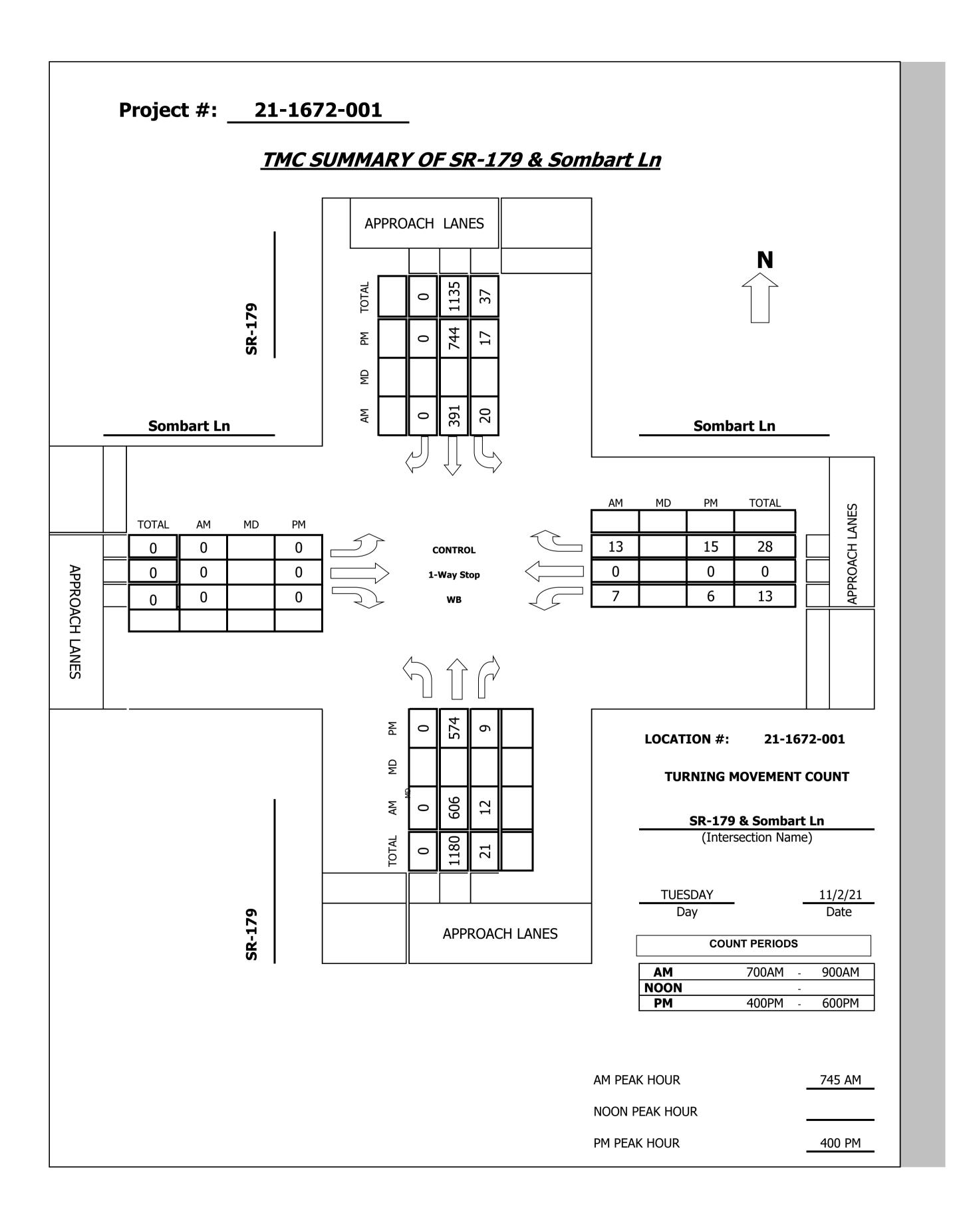
0.75

0.83

0.86

Intersection Turning Movement Prepared by:





Intersection Turning Movement Prepared by:





N-S STREET: SR-179 DATE: 11/2/21 LOCATION: Sedona

E-W STREET: Sombart Ln DAY: TUESDAY PROJECT# 21-1672-001

	NC	ORTHBO	UND	SC	OUTHBOU	JND	E,	ASTBOL	JND	W	ESTBOL	JND	
LANES:	NL 0	NT 1	NR 1	SL 0	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL
6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM	0	92	4	0	50	0	0	0	0	4	0	1	151
7:15 AM 7:30 AM 7:45 AM 8:00 AM	0 0 0 0	92 130 155 155	4 4 4 4	1 3 8 3	58 72 93 87	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	2 4 0 1	0 0 0 0	1 1 2 4	158 214 262 254
8:15 AM 8:30 AM 8:45 AM 9:00 AM	0 0 0	146 150 126	2 2 0	4 5 6	103 108 118	0 0 0	0 0 0	0 0 0	0 0 0	2 4 1	0 0 0	2 5 2	259 274 253
9:15 AM 9:30 AM 9:45 AM 10:00 AM 10:15 AM 10:30 AM 10:45 AM													
11:00 AM 11:15 AM 11:30 AM 11:45 AM													

TOTAL	NL	IN I	NK	SL	51	SK	EL		EK	WL	VV I	WK	TOTAL
Volumes	0	1046	24	30	689	0	0	0	0	18	0	18	1825
Approach %	0.00	97.76	2.24	4.17	95.83	0.00	####	####	####	50.00	0.00	50.00	
App/Depart	1070	/	1064	719	/	707	0	/	54	36	/	0	

AM Peak Hr Begins at: 745 AM

PEAK

Volumes 0 606 12 20 391 0 0 0 0 7 0 13 1049 Approach % 0.00 98.06 1.94 4.87 95.13 0.00 #### #### ### 35.00 0.00 65.00

PEAK HR.

FACTOR: 0.972 0.909 0.000 0.556 0.957

CONTROL: 1-Way Stop (WB)

COMMENT 1: GPS:

34.857643, -111.763893

Intersection Turning Movement



N-S STREET: SR-179 DATE: 11/2/21 LOCATION: Sedona

0

E-W STREET: Sombart Ln DAY: TUESDAY PROJECT# 21-1672-001

	NO	RTHBO	JND	SO	UTHBOU	JND	E	ASTBOL	IND	W	ESTBOL	IND	
LANES:	NL 0	NT 1	NR 1	SL 0	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	0	161	3	6	193	0	0	0	0	3	0	4	370
4:15 PM	0	135	1	2	178	0	0	0	0	0	0	5	321
4:30 PM	0	147	3	4	180	0	0	0	0	1	0	1	336
4:45 PM	0	131	2	5	193	0	0	0	0	2	0	5	338
5:00 PM	0	121	1	7	158	0	0	0	0	2	0	4	293
5:15 PM	0	123	5	7	163	0	0	0	0	3	0	6	307
5:30 PM	0	134	3	2	146	0	0	0	0	4	0	4	293
5:45 PM	0	120	3	12	172	0	0	0	0	2	0	1	310
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
Volumes	0	1072	21	45	1383	0	0	0	0	17	0	30	2568
Approach %	0.00	98.08	1.92	3.15	96.85	_	####	_	_	36.17	0.00	63.83	
App/Depart	1093	/	1102	1428	/	1400	0	/	66	47	/	0	
PM Pea	ak Hr Be	gins at:	400	PM									
PEAK													
	Ιo	574	0	17	744	Ο	Ιn	Λ	ο Ι	6	Λ	4 E	1365

Volumes 0 574 9 17 744 0 0 0 0 6 0 15 1365 Approach % 0.00 98.46 1.54 2.23 97.77 0.00 #### #### ### 28.57 0.00 71.43

PEAK HR.

FACTOR: 0.889 0.956 0.000 0.750 0.922

CONTROL: 1-Way Stop (WB)

COMMENT 1: 0

GPS: 34.857643, -111.763893



Pedestrian & Bicycle Study

N-S STREET: SR-179

E-W STREET: Sombart Ln

Date: 11/2/21

Date: 11/2/21

Day: TUESDAY

City: Sedona

Project #: 21-1672-001

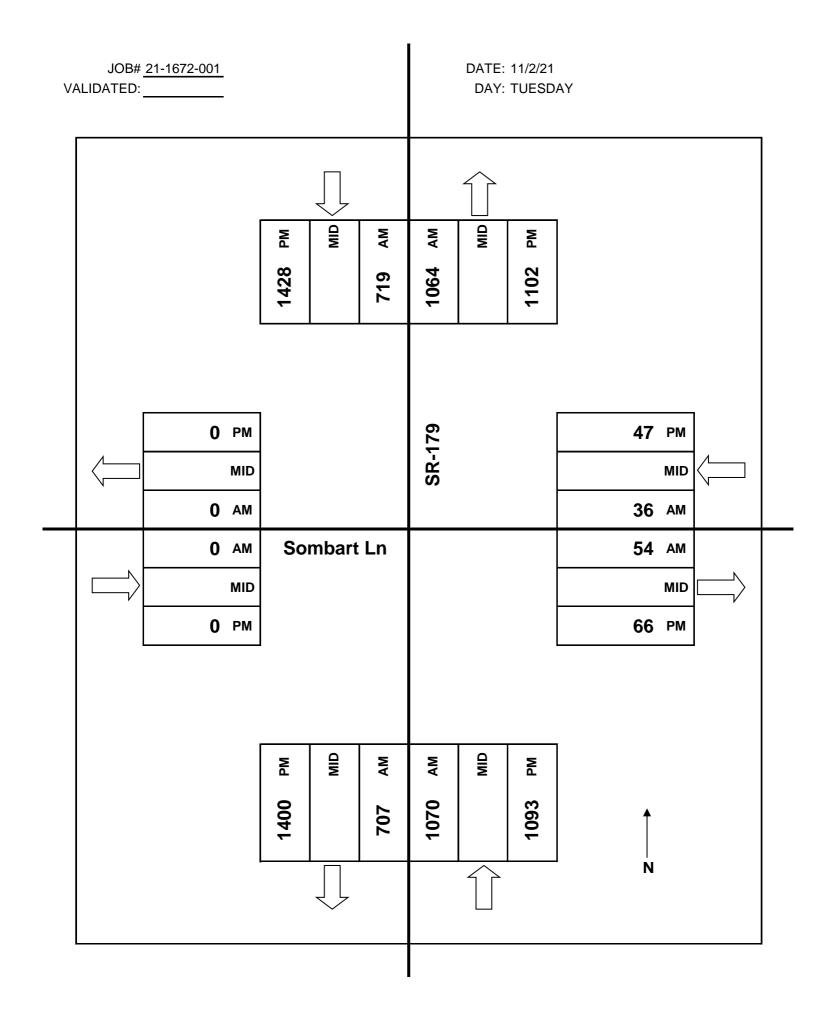
	PEDESTRIANS						
	N-LEG	N-LEG S-LEG E-LEG W					
7:00 AM	0	0	0	0			
7:15 AM	0	0	0	0			
7:30 AM	0	0	0	0			
7:45 AM	0	0	0	0			
8:00 AM	0	0	0	0			
8:15 AM	0	0	0	0			
8:30 AM	0	0	1	0			
8:45 AM	0	0	2	0			
TOTAL	0	0	3	0			

	BICYCLES						
	N-LEG	S-LEG	E-LEG	W-LEG			
7:00 AM	0	0	0	0			
7:15 AM	0	0	0	0			
7:30 AM	0	0	0	0			
7:45 AM	0	0	0	0			
8:00 AM	0	0	0	0			
8:15 AM	0	0	2	0			
8:30 AM	0	0	0	0			
8:45 AM	0	0	2	0			
TOTAL	0	0	4	0			

	PEDESTRIANS						
	N-LEG	S-LEG	E-LEG	W-LEG			
4:00 PM	1	0	0	0			
4:15 PM	0	0	2	0			
4:30 PM	0	0	0	0			
4:45 PM	0	0	5	0			
5:00 PM	0	0	4	0			
5:15 PM	0	0	3	0			
5:30 PM	0	0	0	0			
5:45 PM	0	0	0	0			
TOTAL	1	0	14	0			

	BICYCLES							
	N-LEG	S-LEG	E-LEG	W-LEG				
4:00 PM	0	0	0	0				
4:15 PM	0	0	0	0				
4:30 PM	0	0	2	0				
4:45 PM	0	0	0	0				
5:00 PM	0	0	1	0				
5:15 PM	0	0	0	0				
5:30 PM	0	0	0	0				
5:45 PM	0	0	0	0				
TOTAL	0	0	3	0				

	North Leg	
West Leg		East Leg
	South Leg	



Attachment B: Trip Generation

Athletic Club

(493)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 2 Avg. 1000 Sq. Ft. GFA: 40

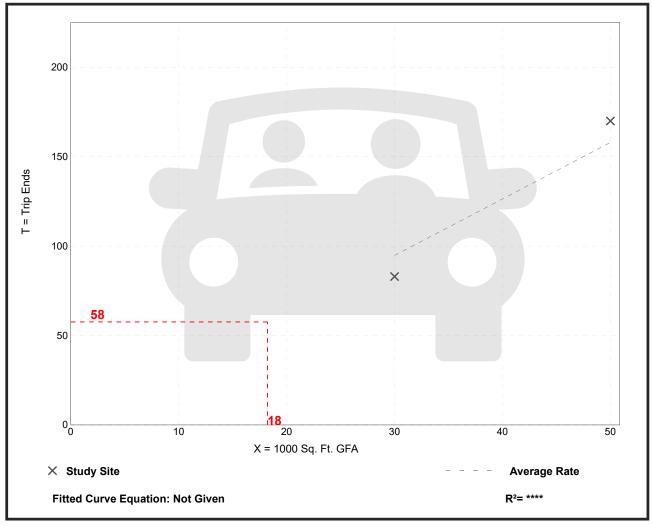
Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
3.16	2.77 - 3.40	*

Data Plot and Equation

Caution - Small Sample Size



Trip Gen Manual, 11th Edition

Athletic Club

(493)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 3 Avg. 1000 Sq. Ft. GFA: 33

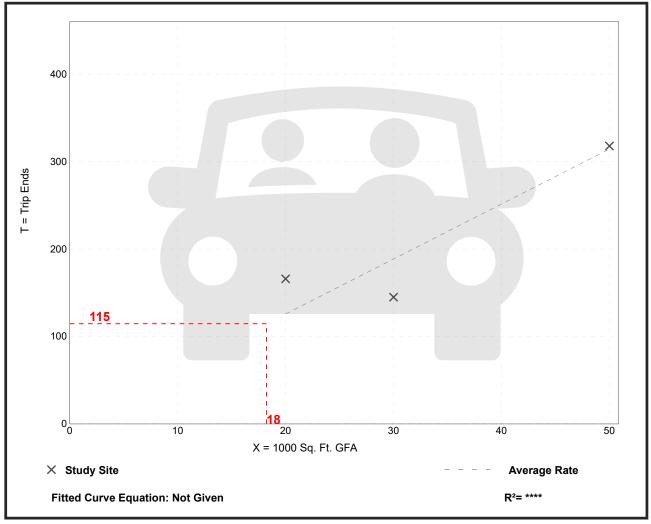
Directional Distribution: 62% entering, 38% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

•	-	
Average Rate	Range of Rates	Standard Deviation
6.29	4.83 - 8.30	1.47

Data Plot and Equation

Caution - Small Sample Size



Trip Gen Manual, 11th Edition

Fine Dining Restaurant (931)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

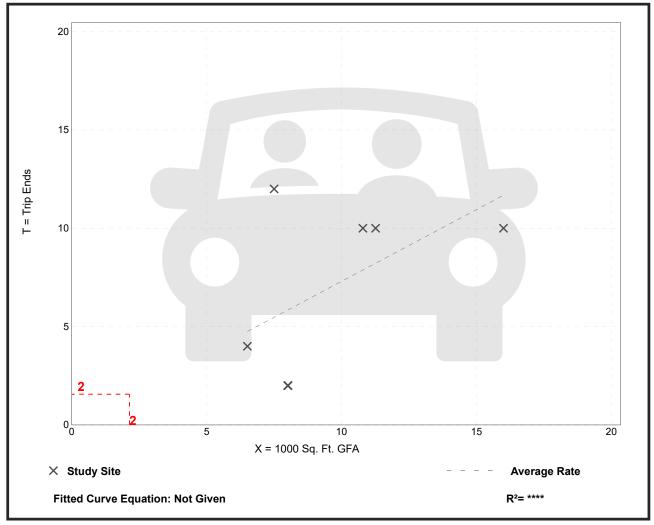
Number of Studies: Avg. 1000 Sq. Ft. GFA: 10

Directional Distribution: Not Available

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.73	0.25 - 1.60	0.42

Data Plot and Equation



Trip Gen Manual, 11th Edition

Fine Dining Restaurant (931)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday

Setting/Location: General Urban/Suburban

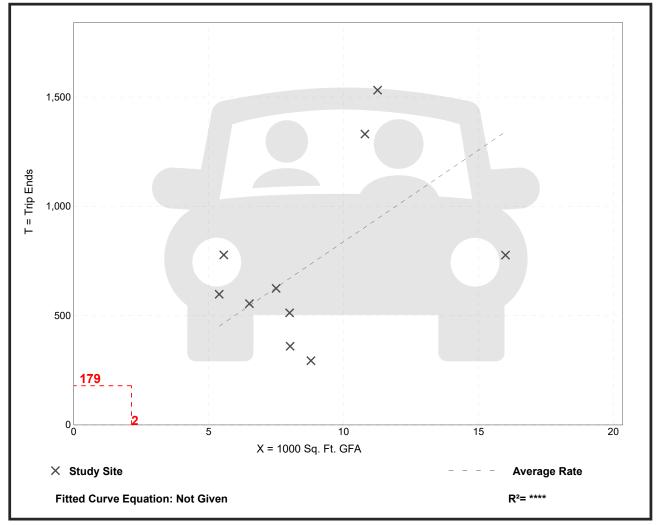
Number of Studies: 10 Avg. 1000 Sq. Ft. GFA:

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
83.84	33.45 - 139.93	40.01

Data Plot and Equation



Trip Gen Manual, 11th Edition

Fine Dining Restaurant

(931)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

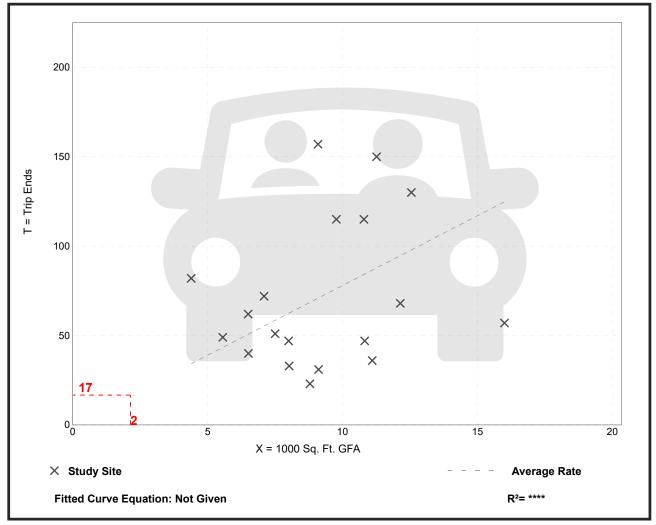
Number of Studies: Avg. 1000 Sq. Ft. GFA:

Directional Distribution: 67% entering, 33% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
7.80	2.62 - 18.68	4.49

Data Plot and Equation



Trip Gen Manual, 11th Edition

Attachment C: Synchro LOS Reports

Intersection						
Int Delay, s/veh	0.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WBL	WOR	ND1	NDK 7	SDL	<u>361</u>
Traffic Vol, veh/h	7	13	606	12	20	391
Future Vol, veh/h	7	13	606	12	20	391
Conflicting Peds, #/hr		0	000	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Jiop -	None	-	None	-	None
Storage Length	0	-	_	205	175	-
Veh in Median Storag		_	0	-	-	0
Grade, %	0	_	0	-	_	0
Peak Hour Factor	56	56	97	97	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	13	23	625	12	22	430
IVIVIIIL I IOVV	13	23	023	12	22	430
Major/Minor N	Minor1		/lajor1		Major2	
Conflicting Flow All	1099	625	0	0	637	0
Stage 1	625	-	-	-	-	-
Stage 2	474	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	235	485	-	-	947	-
Stage 1	534	-	-	-	-	-
Stage 2	626	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	230	485	-	-	947	-
Mov Cap-2 Maneuver	230	-	-	-	-	-
Stage 1	534	-	-	-	-	-
Stage 2	612					_
Jugo 2	0.2					
A Iv	WD		ND		CD	
Approach	WB		NB		SB	
HCM Control Delay, s			0		0.4	
HCM LOS	С					
Minor Lane/Major Mvr	mt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)				349	947	
HCM Lane V/C Ratio		_		0.102		-
HCM Control Delay (s	;)	_	_	16.5	8.9	_
HCM Lane LOS	'/	_	_	C	A	_
HCM 95th %tile Q(vel	h)	_	_	0.3	0.1	-

Intersection						
Int Delay, s/veh	0.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		↑	7	*	†
Traffic Vol, veh/h	6	15	574	9	17	744
Future Vol, veh/h	6	15	574	9	17	744
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	205	175	-
Veh in Median Storag	e,#0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	75	75	89	89	96	96
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	20	645	10	18	775
Major/Minor N	Minor1	N	/lajor1	N	Major2	
						^
Conflicting Flow All	1456 645	645	0	0	655	0
Stage 1	811	-	-	-	-	-
Stage 2	6.42	6.22	-	-	4.12	-
Critical Hdwy			-	-	4.12	-
Critical Idwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	2 210	-	-	- 2 210	-
Follow-up Hdwy	3.518		-		2.218	-
Pot Cap-1 Maneuver	143	472	-	-	932	-
Stage 1	522	-	-	-	-	-
Stage 2	437	-	-	-	-	-
Platoon blocked, %	140	470	-	-	000	-
Mov Cap-1 Maneuver		472	-	-	932	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	522	-	-	-	-	-
Stage 2	429	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0.2	
HCM LOS	C				3,2	
Nimon Long (NA struck		NDT	NDDA	VDI 1	CDI	CDT
Minor Lane/Major Mvr	TIL	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-	-	281	932	-
HCM Lane V/C Ratio	,	-	-		0.019	-
HCM Control Delay (s	5)	-	-	19.2	8.9	-
HCM Lane LOS HCM 95th %tile Q(vel	L)	-	-	0.3	0.1	-

Intersection						
Int Delay, s/veh	1.3		_			
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WDL.	TUDIT	<u> </u>	NDK)	<u> </u>
Traffic Vol, veh/h	16	19	606	26	30	391
Future Vol, veh/h	16	19	606	26	30	391
Conflicting Peds, #/hr	0	0	000	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None		None		None
	-				- 175	
Storage Length	0	-	-	205	175	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	56	56	97	97	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	34	625	27	33	430
Major/Minor	linor1	N	Najor1	, A	/laior2	
			/lajor1		/lajor2	0
Conflicting Flow All	1121	625	0	0	652	0
Stage 1	625	-	-	-	-	-
Stage 2	496	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	228	485	-	-	935	-
Stage 1	534	-	-	-	-	-
Stage 2	612	-	-	-	_	_
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	220	485	_	_	935	_
Mov Cap-1 Maneuver	220	400	-	_	733	-
	534	-			-	
Stage 1		-	-	-		-
Stage 2	591	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0.6	
HCM LOS	_		U		0.0	
HOWI LUS	C					
Minor Lane/Major Mvn	nt	NBT	NBRW	VBLn1	SBL	SBT
Capacity (veh/h)			_	313	935	_
HCM Lane V/C Ratio		_	_		0.035	-
HCM Control Delay (s)		_		19.3	9	_
HCM Lane LOS		_	-	C	A	_
HCM 95th %tile Q(veh)	_	-	0.7	0.1	-
HOW FOUT MILE Q(VEH)		-	0.7	0.1	-

Total AM 9:00 am 11/23/2021 Synchro 11 Report Page 1

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		WDK		NDK		
Lane Configurations	30)E	↑		22	744
Traffic Vol, veh/h Future Vol, veh/h	20 20	25 25	574 574	34 34	33	744 744
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control		Stop		Free	Free	Free
RT Channelized	Stop -		Free -	None	riee -	None
Storage Length	0	None -	-	205	175	None -
Veh in Median Storag		-	0	203	1/5	0
Grade, %	·	-		-		
·	75		0		- 04	96
Peak Hour Factor		75	89	89	96	
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	27	33	645	38	34	775
Major/Minor	Minor1	N	/lajor1	N	/lajor2	
Conflicting Flow All	1488	645	0	0	683	0
Stage 1	645	-	-	-	-	-
Stage 2	843	-	-	-	_	-
Critical Hdwy	6.42	6.22	-	_	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_		_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy	3.518	3.318	_	_	2.218	_
Pot Cap-1 Maneuver	137	472	_	_	910	_
Stage 1	522	-	_	_	-	_
Stage 2	422	_	_	_	_	_
Platoon blocked, %	122		_	_		
Mov Cap-1 Maneuver	132	472	_	-	910	_
Mov Cap-1 Maneuver		- 7/2	<u>-</u>	_	710	_
Stage 1	522		-		-	
· ·		-	-	-	-	-
Stage 2	406	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	3 27.4		0		0.4	
HCM LOS	D					
Minor Lane/Major Mv	mt	NBT	NIRD\/	VBLn1	SBL	SBT
	iiit	NDT	NDIN			
Capacity (veh/h) HCM Lane V/C Ratio		-	-	220	910	-
		-	-	0.273		-
HCM Long LOS)	-	-	27.4	9.1	-
HCM Deth Will Ofvo	h)	-	-	D	Α	-
HCM 95th %tile Q(ve	[1]	-	-	1.1	0.1	-

Total PM 9:01 am 11/23/2021 Synchro 11 Report Page 1