



Veterinary Office Traffic Evaluation Request for Exemption Letter

The purpose of this evaluation is to provide a traffic analysis for a proposed veterinary office development in Lake County and request an exemption from conducting a Traffic Impact Study (TIS). The site of the development is located on the west side of SR 19, approximately 1,000 ft south of its intersection with Revels Road in Howey in the Hills, Florida. **Figure 1** depicts the site location and its one-mile impact area. The proposed development will consist of a 6,000 square-foot veterinary clinic. The anticipated completion year of the project is 2025. Access to the site will be provided via a full access driveway on SR 19. **Figure 2** depicts the site plan and access configuration.

Trip Generation

The trip generation of the proposed development was calculated with the use of data from the 11th Edition of the ITE Trip Generation Manual. **Table 1** summarizes the trip generation, and the ITE trip generation sheets are attached. Copies of the ITE trip generation worksheets are included in Attachment A.

Table 1
Trip Generation Calculation Summary

ITE LUC	Land Use	Size (KSF)	Daily		A.M. Peak Hour				P.M. Peak Hour			
			Rate	Trips	Rate	Enter	Exit	Total	Rate	Enter	Exit	Total
640	Veterinary Clinic	6	21.50	129	3.64	15	7	22	3.67	9	13	22
Total New Trips				129	--	15	7	22	--	9	13	22

1- KSF = 1,000 square feet

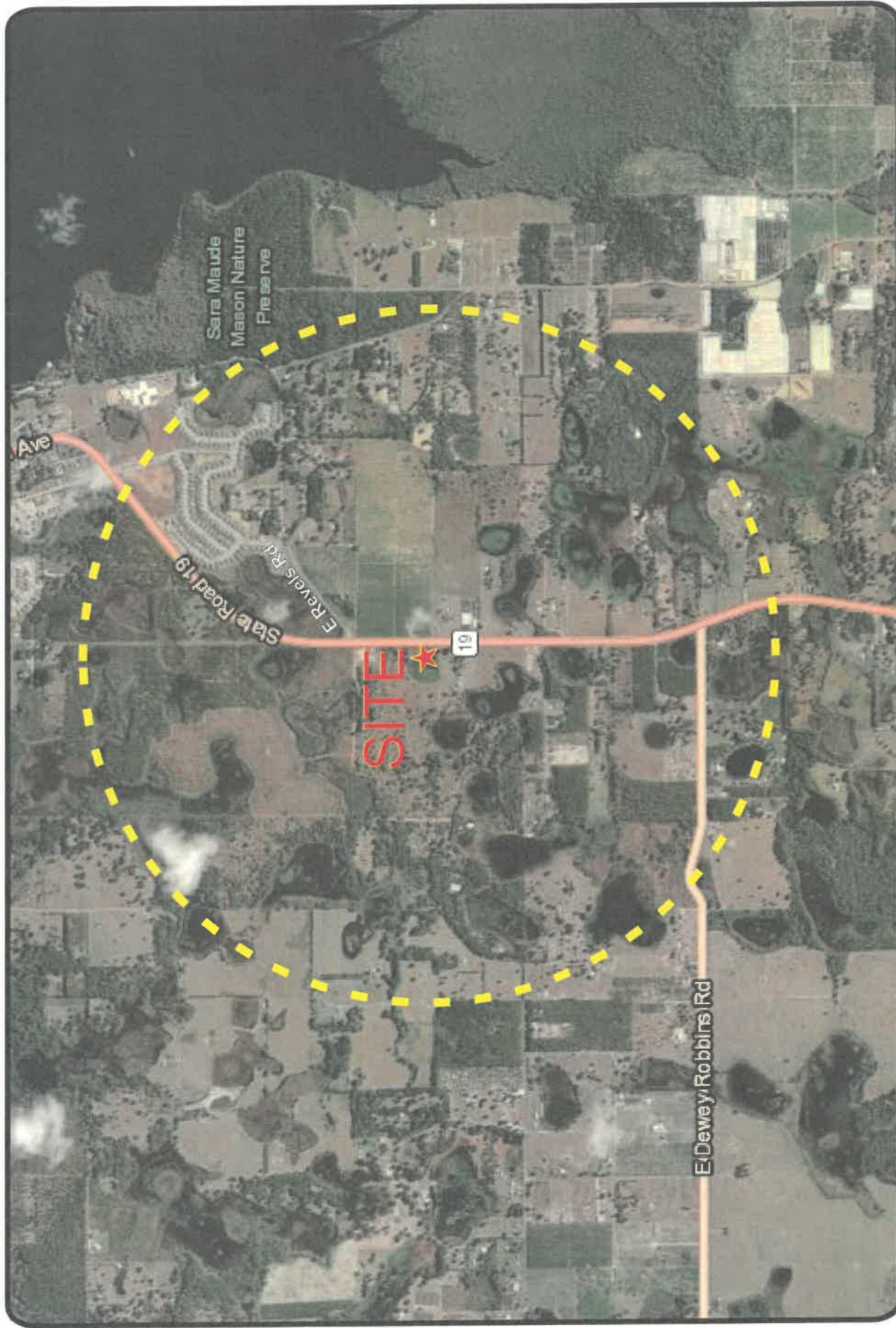
2- ITE equations were used where $R2 > 0.75$

Based upon ITE data the proposed development will generate 129 daily trips, 22 A.M. peak hour trips and 22 P.M. peak hour trips.

TPD No. 5880
11/16/2023

Traffic Planning and Design, Inc.

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Site Location

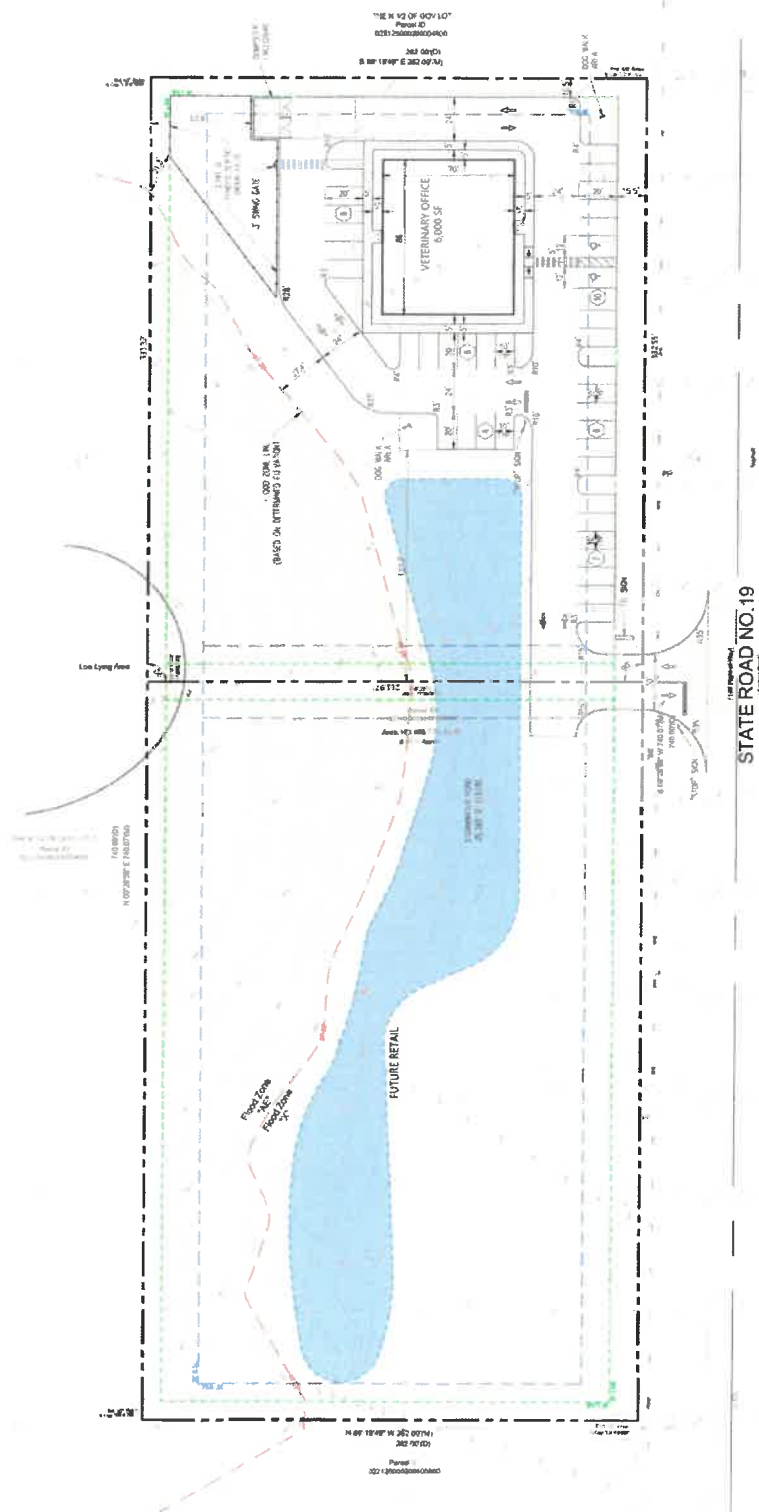
Veterinary Office
Project No 5880
Figure 1





Veterinary Office
Project № 5880
Figure 2

Site Plan



Based upon our knowledge of the area and its socioeconomic characteristics, a distribution pattern for the project trips was determined as follows:

- To/From the south on State Road 19.....54%
- To/From the north on State Road 19.....46%

This distribution is illustrated in **Figure 3** which also shows the project's daily and P.M. peak hour trips assigned to the area roadways.

Area of Influence/Impact Assessment

Based upon the project's trip generation, the proposed project is a de minimis development and considered to create non-substantial impacts. The Applicant believes that this project is more in keeping with a Tier 1 type project and, therefore, this Request for Exemption Letter is being submitted. The area of influence for a Tier 1 TIA is defined as having a minimum one-mile radius from the main access point of the project.

The capacity analysis for the roadway segments to be impacted by the proposed development within one-mile is summarized in **Table 2**. The table shows that the impacted roadways have ample excess capacity to accommodate the project trips. Pertinent roadway segment data sheets showing the existing trips along with the corresponding segment capacities are included in Attachment B.

Table 2
Existing Roadway Capacity

Existing Roadway Capacity								
Roadway Segment	Lns	Adopted		P.M. Peak Hour				
		LOS	Capacity	Direction	Volume	Available Capacity	V/C	LOS
SR 19								
Central Avenue to CR 455	2L	D	1,200	NB	433	767	0.36	B
				SB	372	828	0.31	B



Trip Distribution

Veterinary Office
Project № 5880
Figure 3



Request for Exemption for Tier 1 Traffic Impact Analysis

The proposed development will result in 129 daily trips, 22 A.M. peak hour trips (15 inbound and 7 outbound) and 22 P.M. peak hour trips (9 inbound and 13 outbound) to be added to the area roadways. As shown in Table 2, the impacted roadway network has adequate capacity without reducing the Level of Service (LOS). Therefore, an exemption from doing a Tier 1 Traffic Impact Analysis is requested.

NAME:

P.E. No.:

DATE:

SIGNATURE:



ATTACHMENT A

Animal Hospital/Veterinary Clinic (640)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 6

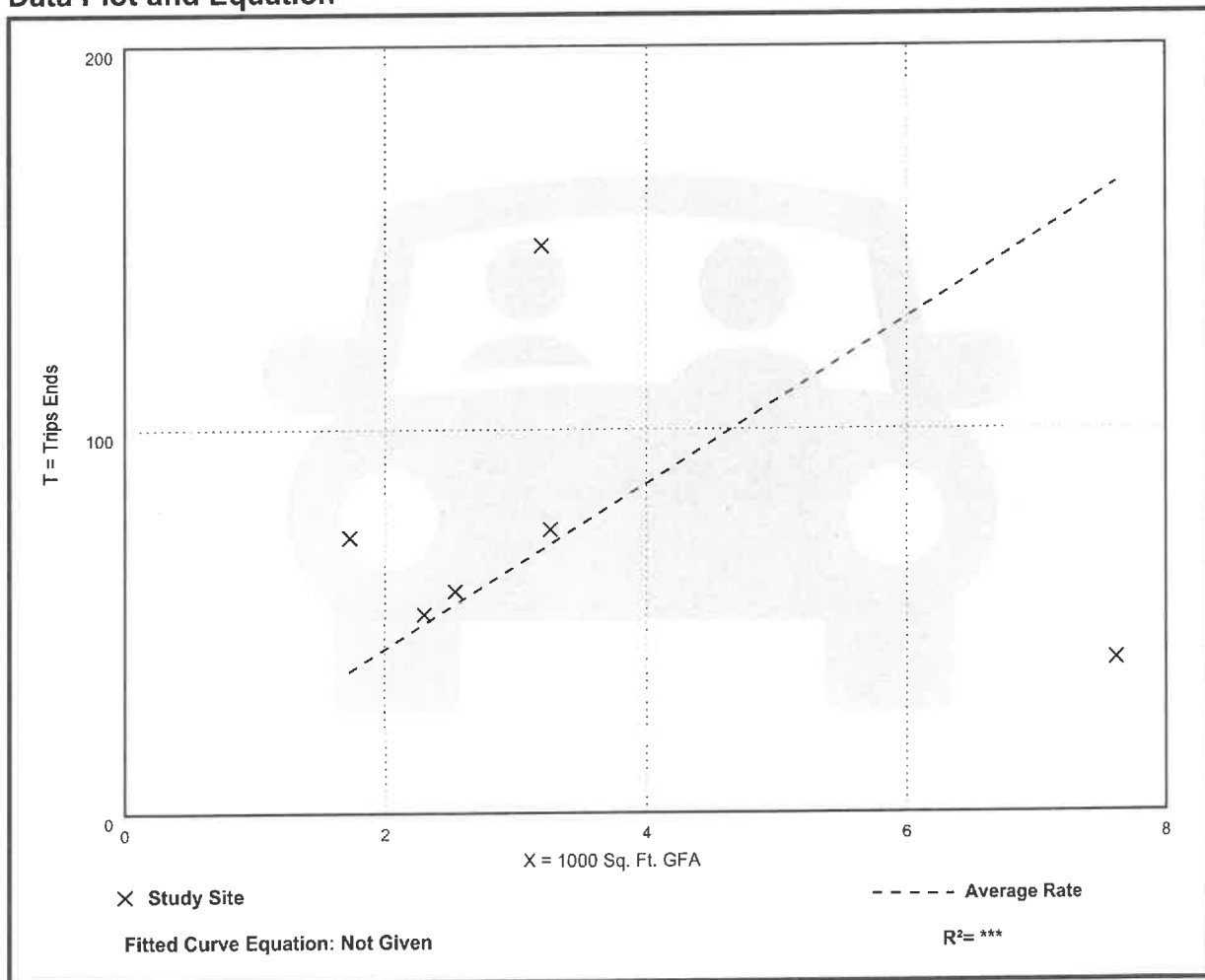
Avg. 1000 Sq. Ft. GFA: 3

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
21.50	5.25 - 46.25	16.50

Data Plot and Equation



Animal Hospital/Veterinary Clinic (640)

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: 8

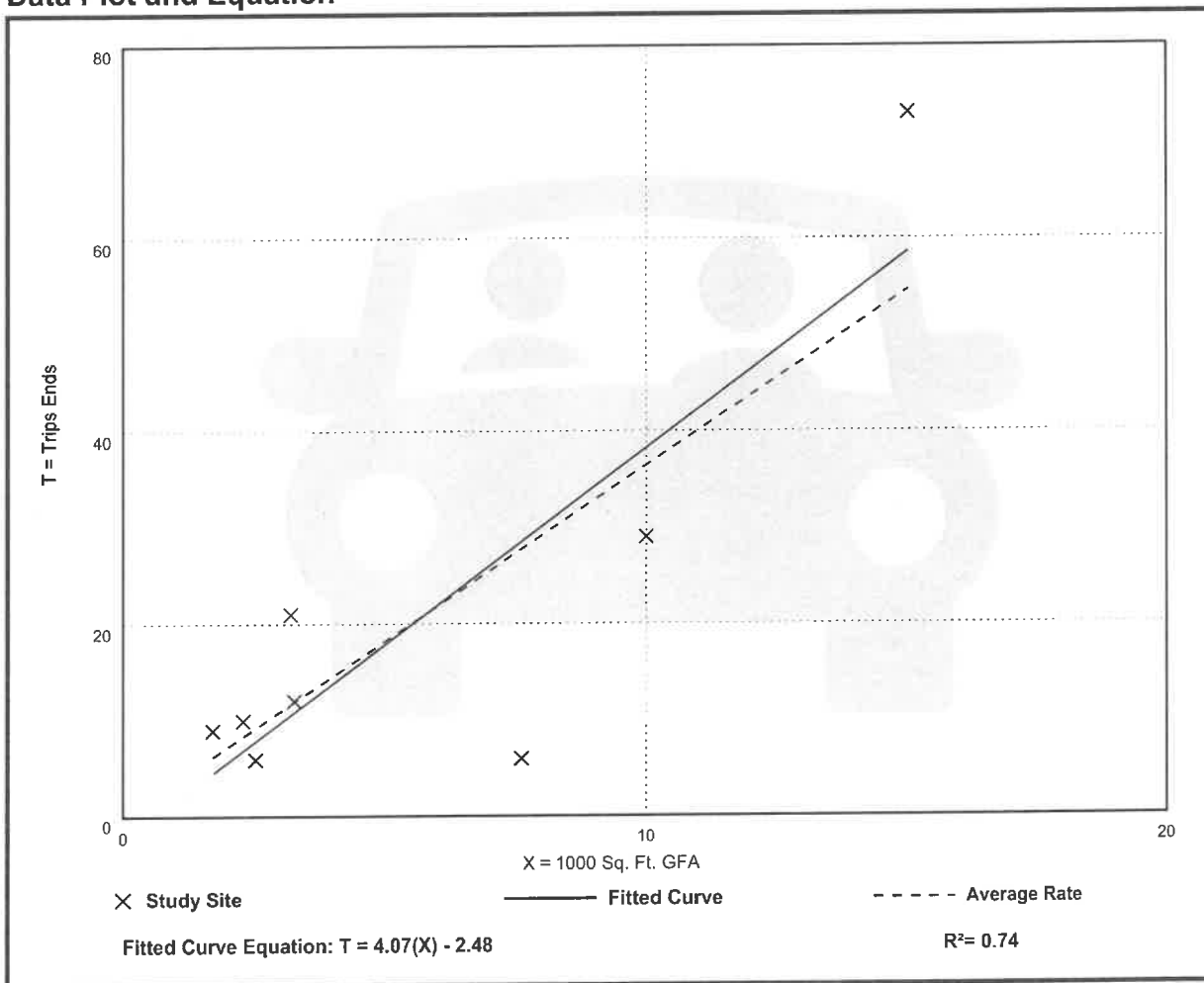
Avg. 1000 Sq. Ft. GFA: 6

Directional Distribution: 67% entering, 33% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
3.64	0.79 - 6.56	1.78

Data Plot and Equation



Animal Hospital/Veterinary Clinic (640)

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: 8

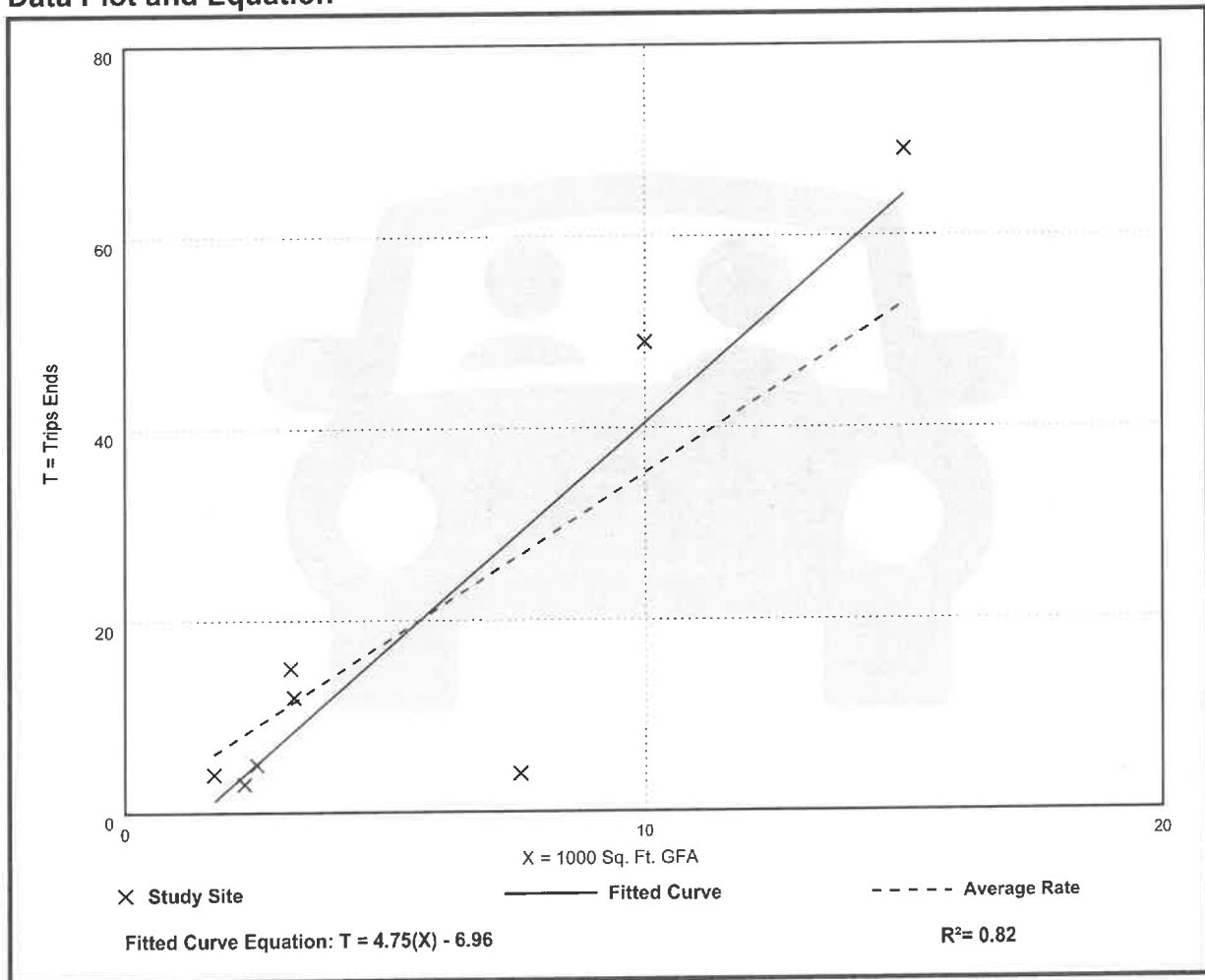
Avg. 1000 Sq. Ft. GFA: 6

Directional Distribution: 40% entering, 60% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
3.53	0.53 - 4.90	1.80

Data Plot and Equation



ATTACHMENT B

Lake County CMP Database

[illegible]