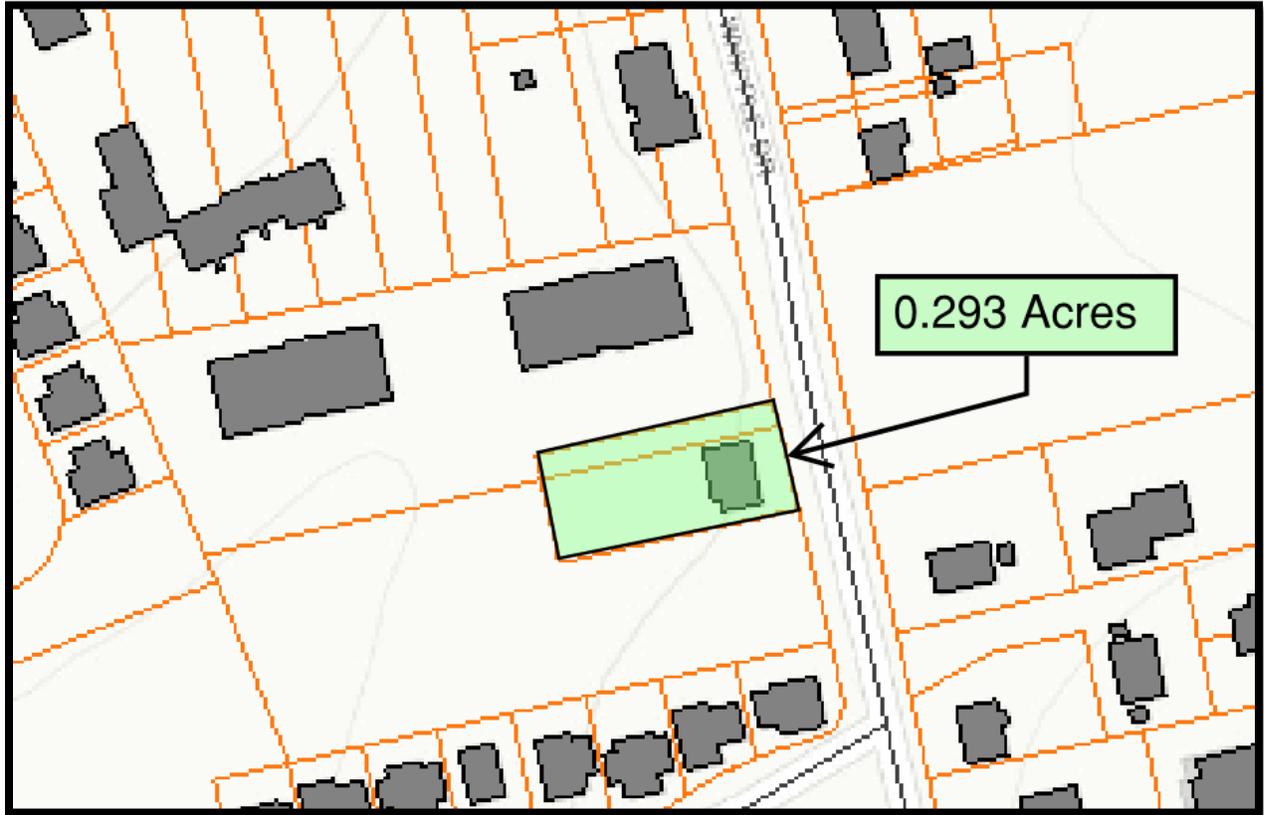


Abbreviated Traffic Impact Analysis

1709 Whipple Drive – See below excerpt from Town of Blacksburg GIS mapping



Existing property is zoned R-5 and has an allowable density of 20 bedrooms per acre or a total of 5 bedrooms by right.

Rezoning the 0.293 acres to RM-48 would allow for an additional 9 bedrooms bringing the total allowable bedrooms on site to 14.

Utilizing the ITE Trip Generation Manuals, 10th edition(See attached), and utilizing the use category of Off-Campus Student Housing(in order to count trips on a 'per bedroom' basis so that the zoning density and trips can be aligned) provides for a total daily trips on site of 56. Peak hourly trips were calculated to be 2-3 trips/hr for the am peak hour of adjacent street traffic and 4-5/hr for the pm peak hour of adjacent street traffic.

Due to the very low number of trips generated, no further analysis is warranted.

Off-Campus Student Apartment (225)

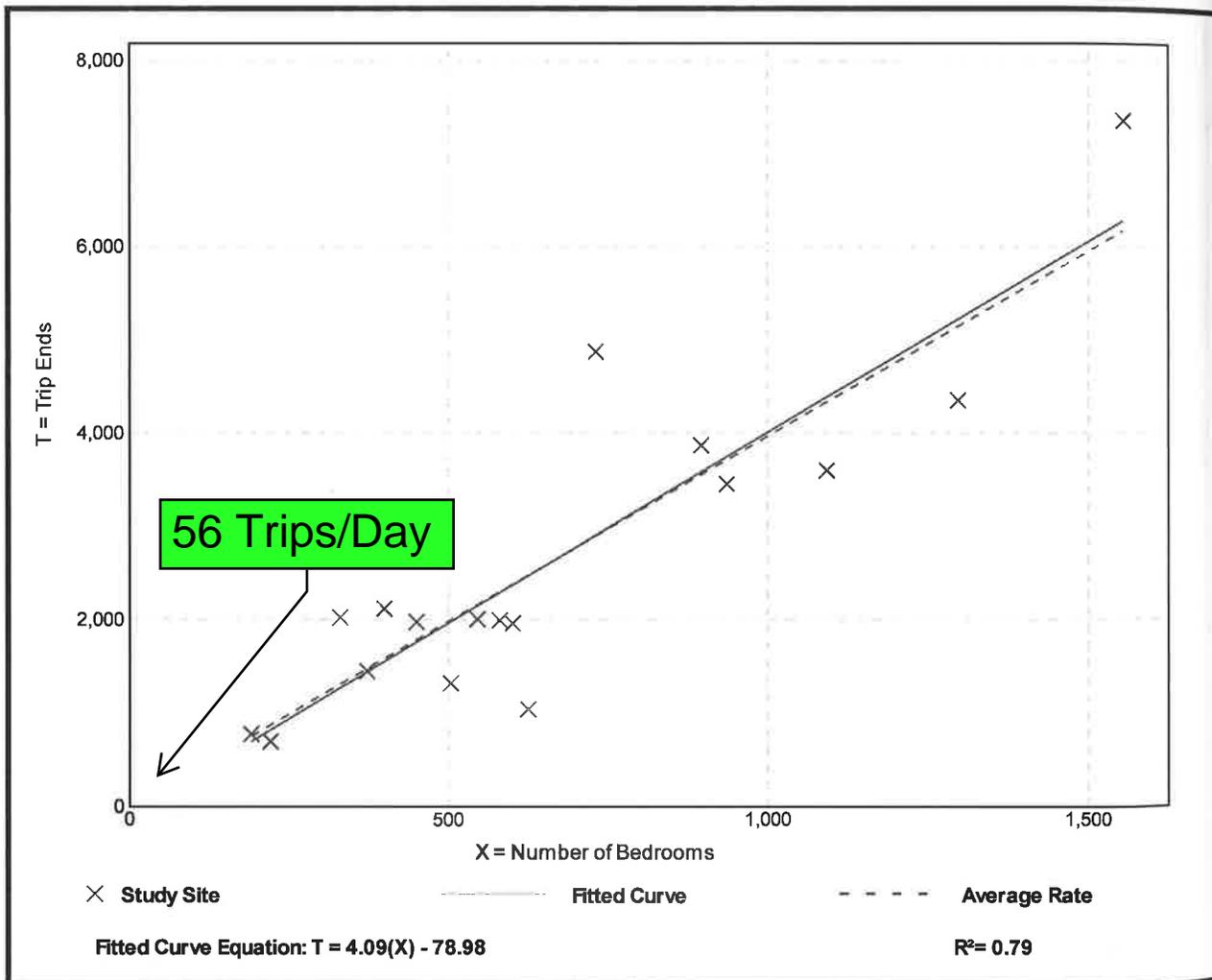
Vehicle Trip Ends vs: Bedrooms
On a: Weekday

Setting/Location: Over 1/2 Mile from Campus
Number of Studies: 17
Avg. Num. of Bedrooms: 666
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Bedroom

Average Rate	Range of Rates	Standard Deviation
3.97	1.68 - 6.68	1.17

Data Plot and Equation



Off-Campus Student Apartment (225)

Vehicle Trip Ends vs: **Bedrooms**

On a: **Weekday,**

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

Setting/Location: Over 1/2 Mile from Campus

Number of Studies: 17

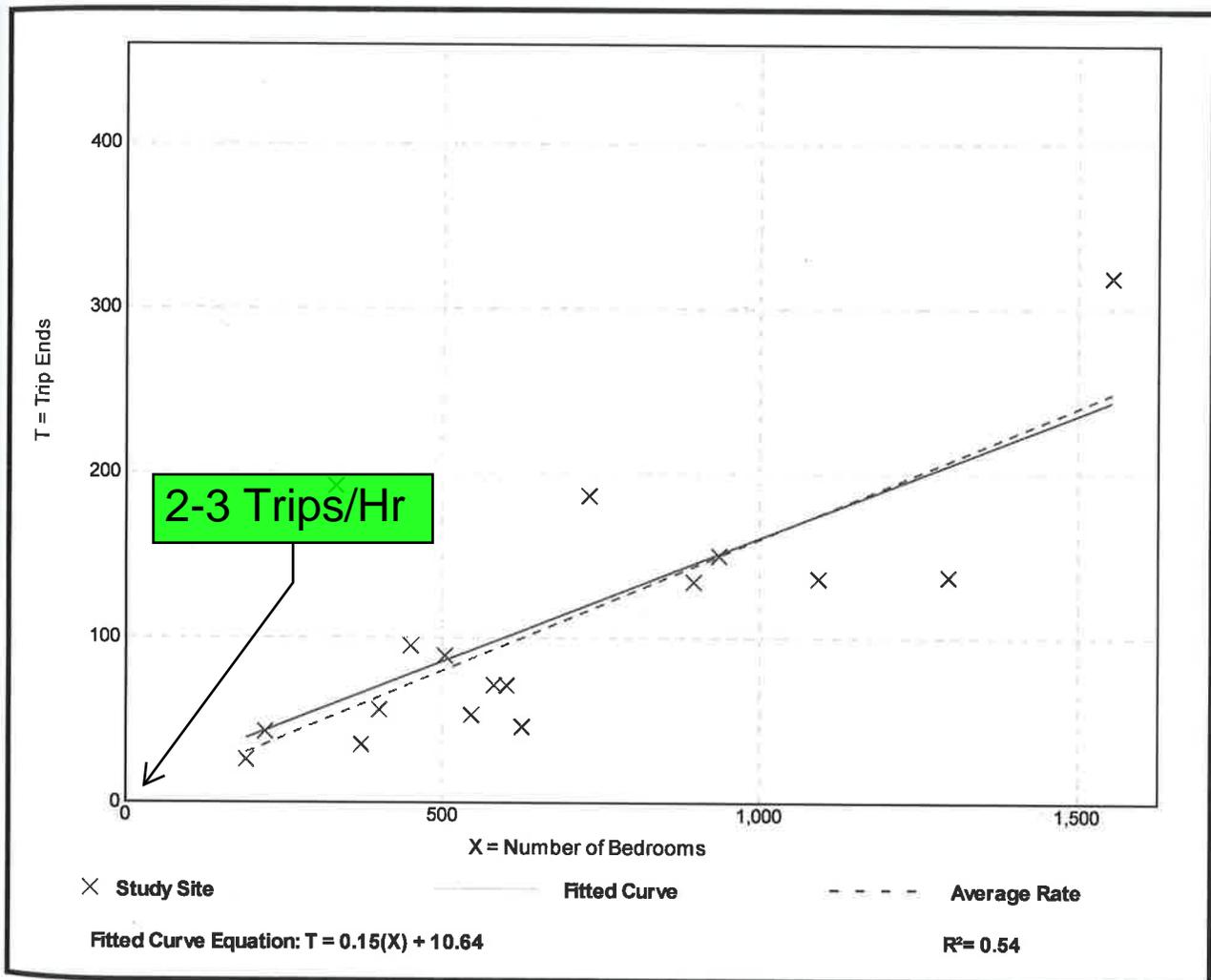
Avg. Num. of Bedrooms: 666

Directional Distribution: 28% entering, 72% exiting

Vehicle Trip Generation per Bedroom

Average Rate	Range of Rates	Standard Deviation
0.16	0.07 - 0.58	0.09

Data Plot and Equation



Off-Campus Student Apartment (225)

Vehicle Trip Ends vs: Bedrooms
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: Over 1/2 Mile from Campus
 Number of Studies: 17
 Avg. Num. of Bedrooms: 666
 Directional Distribution: 52% entering, 48% exiting

Vehicle Trip Generation per Bedroom

Average Rate	Range of Rates	Standard Deviation
0.30	0.12 - 0.50	0.08

Data Plot and Equation

