McCLURE & BROWNE ENGINEERING/SURVEYING, INC.

1008 Woodcreek Dr., Suite 103 · College Station, Tx. 77845 · (979) 693-3838



Engineer Reg. No. F-458 Survey Reg. No. 101033-00

August 28, 2024 June 03, 2025

Zach Kennard, PE City of Bryan Traffic Operations Engineer 979-209-5900

Revised with updated Lot Count on 06/03/2025 per City of Bryan

Original, Approved Master Plan: +/-220 Lots Updated Master Plan: +/- 216 Lots

Re.: Trip Generation Determination Gourd Creek Subdivision MBESI No. 1000-0468

Dear Zach:

The purpose of this letter is to estimate the average number of trips generated for the Gourd Creek Subdivision at full build-out for both the entire day and peak hour.

The following assumptions and calculations have been made: (Source: Institute of Transportation Engineers, Trip Generation, 8th Edition).

ITE Land Code: Single-Family Detached Housing (210) 69 216 Lot Count: (Phase 1: 46) + (Phase 2: 80) + (Phase 3: +/- 21) + (Phase 4: +/- 73) = 220 * Average Trips Generated for Weekday per Dwelling Unit: 9.57 >> 220 x 9.57 = 2,105 trips generated per weekday at full build-out. 216 2,067 * Average Trips Generated for Weekday A.M. Peak Hour per Dwelling Unit: 0.77 >> 220 x 0.77 = 169 trips generated per weekday A.M. peak hour at full build-out 216 166 * Average Trips Generated for Weekday P.M. Peak Hour per Dwelling Unit: 1.02 >> 220 x 1.02 = 224 trips generated per weekday P.M. peak hour at full build-out. 216 220

The Developer improved the portion of Chick Lane (now called Barred Rock Road) along the entire frontage of the Gourd Creek Subdivision per City request. This roadway has been improved to 50' minimum Right-Of-Way with 27' asphalt pavement, Curb and Gutter, and 5' sidewalks on both sides of the street.

Please call or email if you have any questions or comments.

Sincerely,

Josh Fry, P.E. Engineer (979) 693-3838 joshf@mcclurebrowne.com



ATTACHMENT #1

EXCERPT FROM INSTITUTE OF TRANSPORTION ENGINEERS TRIP GENERATION (an ITE INFORMATIONAL REPORT) 8th Edition

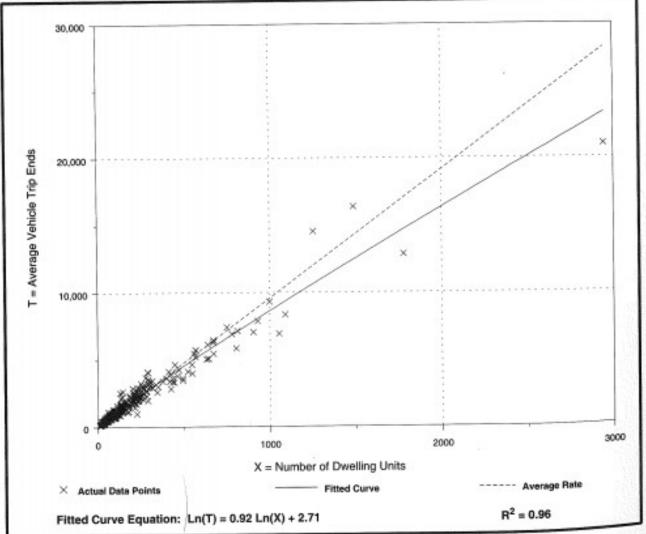
Single-Family Detached Housing (210)

Average Vehicle Trip Ends vs: Dwelling Units On a: Weekday

Number of Studies:	351
Avg. Number of Dwelling Units:	197
Directional Distribution:	

Trip Generation per Dwelling Unit

Data Plot and Equation



Trip Generation, 8th Edition

Institute of Transportation Engineers

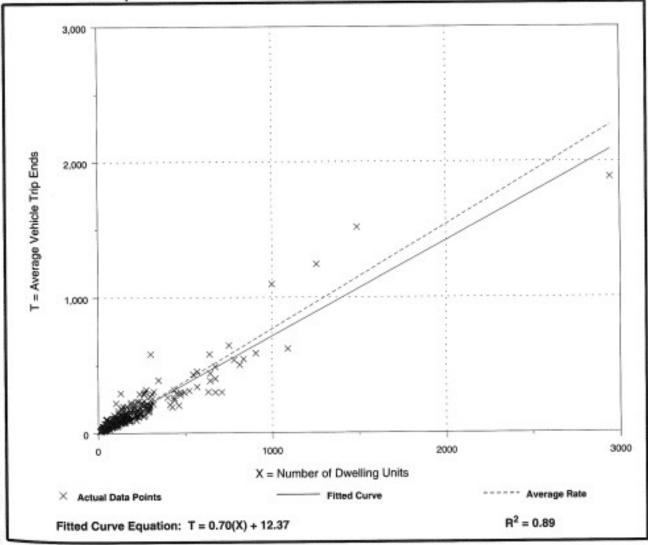
Single-Family Detached Housing (210)

Average Vehicle Trip Ends vs: Dwelling Units On a: Weekday, A.M. Peak Hour of Generator

Number of Studies: 341 Avg. Number of Dwelling Units: 181 Directional Distribution: 26% entering, 74% exiting

Trip Generation per Dwelling Unit

Data Plot and Equation



Trip Generation, 8th Edition

Institute of Transportation Engineers

Single-Family Detached Housing (210)

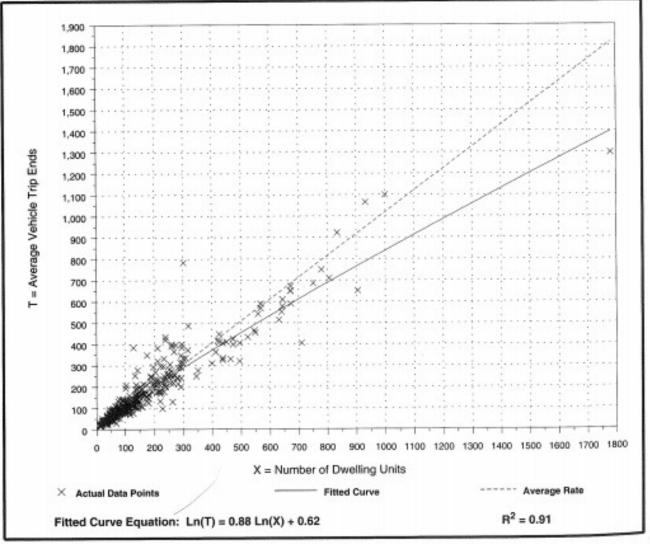
Average Vehicle Trip Ends vs: **Dwelling Units** On a: Weekday, P.M. Peak Hour of Generator

Number of Studies:	360
Avg. Number of Dwelling Units:	174
Directional Distribution:	64% entering, 36% exiting

Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
1.02	0.42 - 2.98	1.05

Data Plot and Equation



ATTACHMENT #2 GOURD CREEK SUBDIVISION MASTER PLAN

