



AGENDA ITEM #5 SUMMARY

Authorize installation of traffic signals at the intersection of Scottsdale Drive with the northbound and southbound 183A frontage roads.

Strategic Plan Relevance: Regional Mobility

Department: Engineering

Associated Costs: approximately \$200,000

Funding Source: General Funds (\$100,000 is to be reimbursed by Developer, Pecan Grove – SPVEF, L.P., to the Mobility Authority per an executed Developer's Agreement for the signal at Scottsdale Drive)

Board Action Required: Yes

Description of Matter: The intersection of 183A and Scottsdale Drive is currently stop-controlled. A Traffic Signal Warrant Analysis was performed in September 2013 and indicates that a signal is warranted.

The results of the warrant are based on the data collected in accordance with the TxDOT standard process for signals. The vehicular volume criteria (Warrant 2 – Four-Hour Vehicular Volume) and peak hour criteria (Warrant 3 - Peak Hour) were met. It is recommended that a traffic signal be installed.

Reference documentation: Traffic Signal Warrant
 Developer's Agreement with Pecan Grove

Contact for further information: Wesley M. Burford, P.E., Director of Engineering

**GENERAL MEETING OF THE BOARD OF DIRECTORS
OF THE
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

RESOLUTION NO. 14-____

**AUTHORIZING INSTALLATION OF TRAFFIC SIGNALS AT
THE INTERSECTION OF SCOTTSDALE DRIVE WITH THE NORTHBOUND
AND SOUTHBOUND 183A FRONTAGE ROADS**

WHEREAS, under that certain Development Agreement between the Mobility Authority and Pecan Grove – SPVEF, L.P. (the “Developer”), effective March 8, 2013, the Developer has agreed to pay \$100,000.00 towards the cost of installing a traffic signal at the intersection of the northbound 183A frontage road and Scottsdale Drive when the Mobility Authority determines that the installation of the traffic signal is warranted; and

WHEREAS, the Director of Engineering has recently completed an engineering and traffic study for the intersection of the 183A frontage roads and Scottsdale Drive to determine if traffic signals at the intersections are now warranted; and

WHEREAS, based on the results of the engineering and traffic study and the resources now available to the Mobility Authority, the Executive Director recommends the installation of traffic signals at the intersections of the 183A frontage roads and Scottsdale Drive.

NOW, THEREFORE, BE IT RESOLVED that the Board hereby approves the installation of traffic signals at the intersection of the 183A frontage roads and Scottsdale Drive as recommended by the Executive Director, and authorizes and directs the Executive Director to complete the installation of those traffic signals within a reasonable time.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of February, 2014.

Submitted and reviewed by:

Andrew Martin
General Counsel for the Central
Texas Regional Mobility Authority

Approved:

Ray A. Wilkerson
Chairman, Board of Directors
Resolution Number: 14-_____
Date Passed: 02/26/14

**Traffic Signal Warrant
183A Frontage Road
And Scottsdale Drive**



**CENTRAL TEXAS
Regional Mobility Authority**



2-14-14

A handwritten signature in blue ink, followed by the date "2-14-14" written in a cursive style.

February 2014

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I. PROJECT DESCRIPTION

This report presents a summary of findings for a Traffic Signal Warrant Analysis performed by HNTB Corporation, Inc. for the intersection of 183A Frontage Road and Scottsdale Drive in Cedar Park, Williamson County, Texas. A Site Location Map has been included in the Appendix of this report as ***Exhibit 1***.

In order to conduct the signal warrant analysis 24-hour traffic counts were collected for the intersection of 183A and Scottsdale Drive on September 18-19, 2013. In addition to the 24-hour traffic counts, turning movements counter were collected on September 19, 2013 and updated turning movement counts were collected on December 13, 2013. This data can be found in the Appendix of this report as ***Exhibit 2***. A site visit was also conducted to observe the geometric configuration of the intersection as well as any unique characteristics about the approaches.

The intersection of 183A and Scottsdale Drive is currently a diamond interchange with the frontage road divided with 183A mainlanes. The 183A northbound and southbound frontage roads speed limit is 60 mph and Scottsdale Drive approach is 25 mph. Scottsdale Drive approach is currently stop-controlled at both intersections.

II. ANALYSIS

The 2011 Texas Manual on Uniform Traffic Control Devices (TMUTCD) strongly recommends at least one warrant be met prior to the installation of a traffic signal. These warrants are summarized at follows:

- | | | | |
|----|-----------------------------|----|------------------------------------|
| 1. | Eight-Hour Vehicular Volume | 5. | School Crossing |
| 2. | Four-Hour Vehicular Volume | 6. | Coordinated Signal System |
| 3. | Peak Hour | 7. | Crash Experience |
| 4. | Pedestrian Volume | 8. | Roadway Network |
| | | 9. | Intersection Near a Grade Crossing |

Below are the TMUTCD descriptions of the Traffic Signal Warrants. In addition to the descriptions, TMUTCD also considers sound engineering judgment and recommendations as enough evidence to warrant the necessity of a traffic signal.

A. Warrant 1 – Eight-Hour Vehicular Volume

This warrant involves three (3) conditions (A, B, or a combination of A and B) which can individually satisfy the conditions of Warrant 1. Condition A is the Minimum Vehicular Volume which is intended for application at locations where a large volume of intersecting traffic is the principal reason to consider installing a traffic control signal. Condition B is the Interruption of Continuous Traffic which is intended for application where the traffic volume on a major street is so heavy that traffic on a minor street suffers excessively.

B. Warrant 2 – Four-Hour Vehicular Volume

This warrant is intended to be applied where the volumes of intersecting traffic is the principal reason to consider installing a traffic control signal.

C. Warrant 3 – Peak Hour

This warrant is intended for use at a location where traffic conditions are such that for a minimum of one (1) hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street.

D. Warrant 4 – Pedestrian Volume

This warrant is intended for application where the traffic volume on a major street is so heavy that pedestrians experience excessive delay in crossing the major street.

E. Warrant 5 – School Crossing

This warrant is intended for application where the fact that school children cross the major street is the principal reason to consider installing a traffic control signal.

F. Warrant 6 – Coordinated Signal System

This warrant is when progressive movement in a coordinated signal system sometimes necessitates installing traffic control signals at intersections where they would not otherwise be needed in order to maintain proper platooning of vehicles.

G. Warrant 7 – Crash Experience

This warrant is intended for application where the severity and frequency of crashes are the principal reasons to consider installing a traffic control signal.

H. Warrant 8 – Roadway Network

This warrant is analyzed when installing a traffic control signal at some intersections might be justified to encourage concentration and organization of traffic flow on a roadway.

I. Warrant 9 – Intersection Near a Grade Crossing

This warrant is analyzed when installing a traffic control signal at some intersections might be justified to encourage concentration and organization of traffic flow on a roadway.

III. RESULTS AND RECOMMENDATIONS

The following results and recommendations are based on data that has been collected, standards set by the TMUTCD. Due to the high volume of accidents, Warrant 7 was analyzed but did not meet the minimum volumes criteria. Warrants 2 (Four-hour Vehicular Volume) and 3 (Peak Hour) satisfied the volume criteria set by TMUTCD therefore a traffic signal installation is recommended to be installed. For analysis purposes, Scottsdale Drive was evaluated as a single lane approach and the WB right turning vehicles were not considered because the right-turn lane is currently free-flowing. Please refer to ***Exhibit 3*** within the Appendix of this report for the detailed Signal Warrant Worksheets.

APPENDIX

EXHIBIT 1

SITE LOCATION MAP

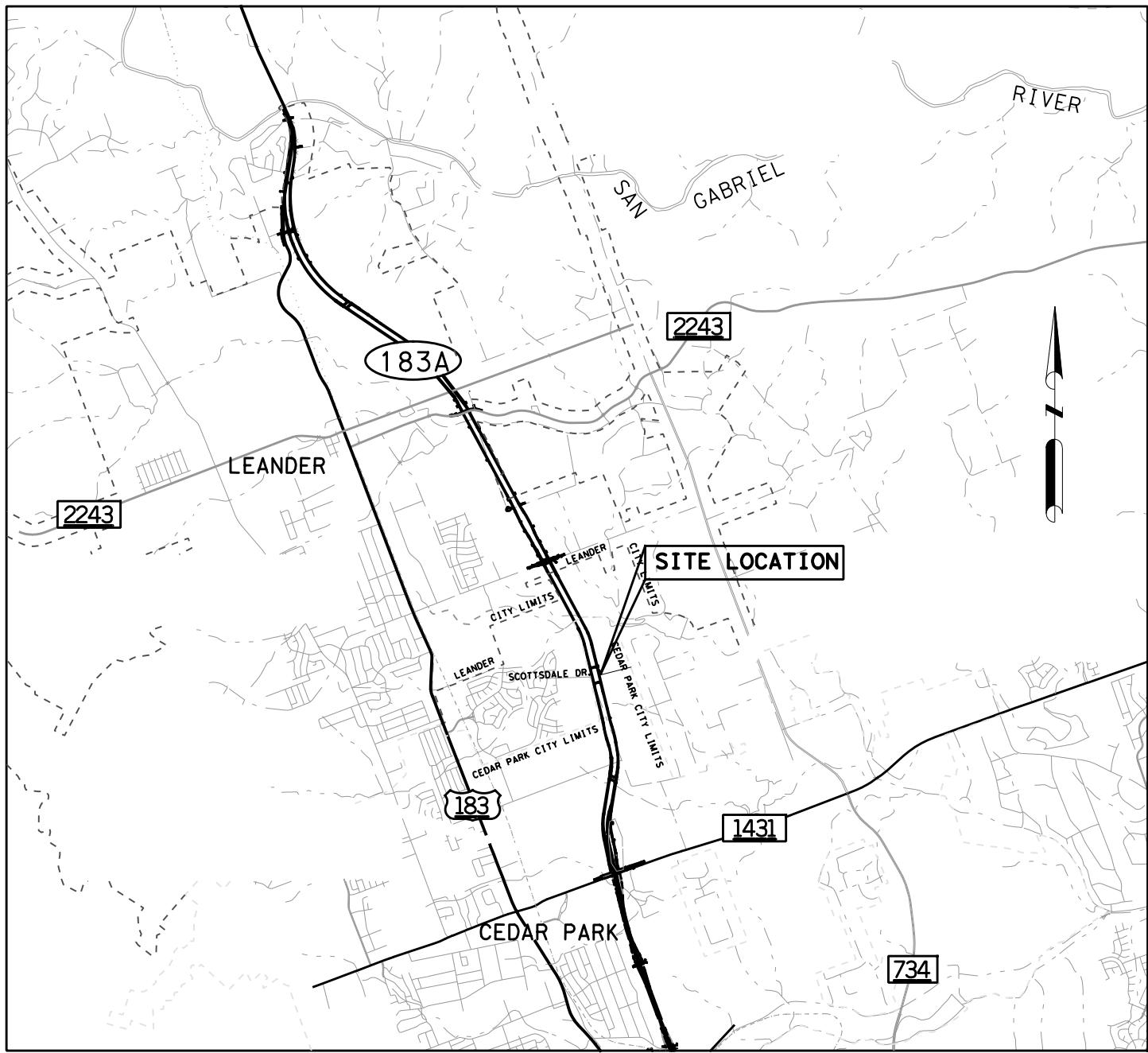


EXHIBIT 1
SITE LOCATION

EXHIBIT 2

24-HOUR TRAFFIC COUNTS

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
|----|-----------|-----------|-----------|--|-----------|-----------|-----------|-------------|-----------|-----------------|-----------|-------|-------|---|---|---|
| 1 | | | | GRAM Traffic, Inc. 21220 Jakes Hill Rd Hutto, TX 78634 51 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | | | | | |
| 10 | 18-Sep-13 | Eastbound | | Hour Totals | | Westbound | | Hour Totals | | Combined Totals | | | | | | |
| 11 | Wed | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | | | | | |
| 12 | 12:00 | | | 0 | 2 | | | 0 | 4 | | | | | | | |
| 13 | 12:15 | | | 0 | 3 | | | 0 | 2 | | | | | | | |
| 14 | 12:30 | | | 0 | 7 | | | 0 | 4 | | | | | | | |
| 15 | 12:45 | | | 0 | 3 | 0 | 15 | 0 | 1 | 0 | 11 | 0 | 26 | | | |
| 16 | 01:00 | | | 0 | 2 | | | 0 | 1 | | | | | | | |
| 17 | 01:15 | | | 0 | 4 | | | 0 | 2 | | | | | | | |
| 18 | 01:30 | | | 0 | 10 | | | 0 | 2 | | | | | | | |
| 19 | 01:45 | | | 0 | 2 | 0 | 18 | 0 | 4 | 0 | 9 | 0 | 27 | | | |
| 20 | 02:00 | | | 0 | 2 | | | 0 | 4 | | | | | | | |
| 21 | 02:15 | | | 0 | 7 | | | 0 | 3 | | | | | | | |
| 22 | 02:30 | | | 2 | 3 | | | 1 | 3 | | | | | | | |
| 23 | 02:45 | | | 0 | 0 | 2 | 12 | 0 | 2 | 1 | 12 | 3 | 24 | | | |
| 24 | 03:00 | | | 0 | 5 | | | 0 | 0 | | | | | | | |
| 25 | 03:15 | | | 0 | 4 | | | 0 | 6 | | | | | | | |
| 26 | 03:30 | | | 0 | 0 | | | 0 | 2 | | | | | | | |
| 27 | 03:45 | | | 0 | 4 | 0 | 13 | 0 | 1 | 0 | 9 | 0 | 22 | | | |
| 28 | 04:00 | | | 0 | 0 | | | 0 | 4 | | | | | | | |
| 29 | 04:15 | | | 0 | 2 | | | 0 | 1 | | | | | | | |
| 30 | 04:30 | | | 0 | 0 | | | 0 | 2 | | | | | | | |
| 31 | 04:45 | | | 0 | 3 | 0 | 5 | 0 | 1 | 0 | 8 | 0 | 13 | | | |
| 32 | 05:00 | | | 0 | 0 | | | 0 | 1 | | | | | | | |
| 33 | 05:15 | | | 0 | 2 | | | 0 | 3 | | | | | | | |
| 34 | 05:30 | | | 2 | 4 | | | 0 | 2 | | | | | | | |
| 35 | 05:45 | | | 2 | 3 | 4 | 9 | 0 | 1 | 0 | 7 | 4 | 16 | | | |
| 36 | 06:00 | | | 0 | 0 | | | 0 | 2 | | | | | | | |
| 37 | 06:15 | | | 0 | 2 | | | 0 | 2 | | | | | | | |
| 38 | 06:30 | | | 2 | 0 | | | 0 | 2 | | | | | | | |
| 39 | 06:45 | | | 1 | 4 | 3 | 6 | 0 | 2 | 0 | 8 | 3 | 14 | | | |
| 40 | 07:00 | | | 1 | 0 | | | 0 | 3 | | | | | | | |
| 41 | 07:15 | | | 2 | 0 | | | 1 | 0 | | | | | | | |
| 42 | 07:30 | | | 0 | 0 | | | 0 | 0 | | | | | | | |
| 43 | 07:45 | | | 3 | 0 | 6 | 0 | 0 | 1 | 1 | 4 | 7 | 4 | | | |
| 44 | 08:00 | | | 4 | 0 | | | 2 | 0 | | | | | | | |
| 45 | 08:15 | | | 0 | 0 | | | 1 | 0 | | | | | | | |
| 46 | 08:30 | | | 2 | 0 | | | 0 | 0 | | | | | | | |
| 47 | 08:45 | | | 5 | 0 | 11 | 0 | 0 | 0 | 3 | 0 | 14 | 0 | | | |
| 48 | 09:00 | | | 6 | 0 | | | 1 | 0 | | | | | | | |
| 49 | 09:15 | | | 4 | 0 | | | 0 | 0 | | | | | | | |
| 50 | 09:30 | | | 6 | 0 | | | 0 | 0 | | | | | | | |
| 51 | 09:45 | | | 6 | 0 | 22 | 0 | 4 | 0 | 5 | 0 | 27 | 0 | | | |
| 52 | 10:00 | | | 0 | 0 | | | 2 | 0 | | | | | | | |
| 53 | 10:15 | | | 0 | 0 | | | 2 | 0 | | | | | | | |
| 54 | 10:30 | | | 2 | 0 | | | 5 | 0 | | | | | | | |
| 55 | 10:45 | | | 4 | 0 | 6 | 0 | 4 | 0 | 13 | 0 | 19 | 0 | | | |
| 56 | 11:00 | | | 5 | 0 | | | 0 | 0 | | | | | | | |
| 57 | 11:15 | | | 2 | 0 | | | 0 | 0 | | | | | | | |
| 58 | 11:30 | | | 5 | 0 | | | 4 | 0 | | | | | | | |
| 59 | 11:45 | | | 2 | 0 | 14 | 0 | 0 | 0 | 4 | 0 | 18 | 0 | | | |
| 60 | Total | | | 68 | 78 | | | 27 | 68 | | | 95 | 146 | | | |
| 61 | Percent | | | 46.6% | 53.4% | | | 28.4% | 71.6% | | | 39.4% | 60.6% | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | |
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| 1 | | | | | | | | | | | | | | | | Page 2 | |
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| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 19-Sep-13 | Eastbound | | | Hour Totals | | Westbound | | Hour Totals | | Combined Totals | | | | | | |
| 11 | Thu | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | | | | | | |
| 12 | 12:00 | | | 0 | 8 | | | 0 | 3 | | | | | | | | |
| 13 | 12:15 | | | 0 | 7 | | | 0 | 4 | | | | | | | | |
| 14 | 12:30 | | | 0 | 3 | | | 0 | 2 | | | | | | | | |
| 15 | 12:45 | | | 0 | 0 | 0 | 18 | 0 | 3 | 0 | 12 | 0 | 30 | | | | |
| 16 | 01:00 | | | 0 | 0 | | | 0 | 1 | | | | | | | | |
| 17 | 01:15 | | | 0 | 6 | | | 0 | 2 | | | | | | | | |
| 18 | 01:30 | | | 0 | 3 | | | 0 | 2 | | | | | | | | |
| 19 | 01:45 | | | 0 | 2 | 0 | 11 | 0 | 2 | 0 | 7 | 0 | 18 | | | | |
| 20 | 02:00 | | | 0 | 0 | | | 0 | 0 | | | | | | | | |
| 21 | 02:15 | | | 0 | 6 | | | 0 | 3 | | | | | | | | |
| 22 | 02:30 | | | 0 | 5 | | | 0 | 3 | | | | | | | | |
| 23 | 02:45 | | | 0 | 2 | 0 | 13 | 0 | 0 | 0 | 6 | 0 | 19 | | | | |
| 24 | 03:00 | | | 0 | 0 | | | 0 | 1 | | | | | | | | |
| 25 | 03:15 | | | 0 | 2 | | | 0 | 0 | | | | | | | | |
| 26 | 03:30 | | | 0 | 0 | | | 0 | 0 | | | | | | | | |
| 27 | 03:45 | | | 0 | 1 | 0 | 3 | 0 | 3 | 0 | 4 | 0 | 7 | | | | |
| 28 | 04:00 | | | 0 | 3 | | | 0 | 2 | | | | | | | | |
| 29 | 04:15 | | | 0 | 1 | | | 0 | 1 | | | | | | | | |
| 30 | 04:30 | | | 0 | 2 | | | 0 | 3 | | | | | | | | |
| 31 | 04:45 | | | 0 | 5 | 0 | 11 | 0 | 2 | 0 | 8 | 0 | 19 | | | | |
| 32 | 05:00 | | | 0 | 0 | | | 0 | 2 | | | | | | | | |
| 33 | 05:15 | | | 0 | 0 | | | 0 | 2 | | | | | | | | |
| 34 | 05:30 | | | 0 | 2 | | | 0 | 3 | | | | | | | | |
| 35 | 05:45 | | | 0 | 3 | 0 | 5 | 0 | 0 | 0 | 7 | 0 | 12 | | | | |
| 36 | 06:00 | | | 0 | 1 | | | 0 | 2 | | | | | | | | |
| 37 | 06:15 | | | 0 | 0 | | | 0 | 1 | | | | | | | | |
| 38 | 06:30 | | | 4 | 0 | | | 0 | 0 | | | | | | | | |
| 39 | 06:45 | | | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 3 | 4 | 4 | | | | |
| 40 | 07:00 | | | 2 | 1 | | | 0 | 3 | | | | | | | | |
| 41 | 07:15 | | | 0 | 2 | | | 0 | 4 | | | | | | | | |
| 42 | 07:30 | | | 2 | 0 | | | 0 | 0 | | | | | | | | |
| 43 | 07:45 | | | 1 | 0 | 5 | 3 | 1 | 0 | 1 | 7 | 6 | 10 | | | | |
| 44 | 08:00 | | | 4 | 0 | | | 1 | 0 | | | | | | | | |
| 45 | 08:15 | | | 0 | 2 | | | 1 | 1 | | | | | | | | |
| 46 | 08:30 | | | 3 | 0 | | | 0 | 0 | | | | | | | | |
| 47 | 08:45 | | | 2 | 0 | 9 | 2 | 0 | 0 | 2 | 1 | 11 | 3 | | | | |
| 48 | 09:00 | | | 0 | 0 | | | 0 | 0 | | | | | | | | |
| 49 | 09:15 | | | 4 | 0 | | | 2 | 0 | | | | | | | | |
| 50 | 09:30 | | | 13 | 0 | | | 2 | 0 | | | | | | | | |
| 51 | 09:45 | | | 0 | 0 | 17 | 0 | 1 | 0 | 5 | 0 | 22 | 0 | | | | |
| 52 | 10:00 | | | 0 | 0 | | | 1 | 0 | | | | | | | | |
| 53 | 10:15 | | | 4 | 0 | | | 1 | 0 | | | | | | | | |
| 54 | 10:30 | | | 8 | 0 | | | 2 | 0 | | | | | | | | |
| 55 | 10:45 | | | 0 | 0 | 12 | 0 | 0 | 0 | 4 | 0 | 16 | 0 | | | | |
| 56 | 11:00 | | | 0 | 0 | | | 0 | 0 | | | | | | | | |
| 57 | 11:15 | | | 0 | 0 | | | 2 | 0 | | | | | | | | |
| 58 | 11:30 | | | 2 | 0 | | | 1 | 0 | | | | | | | | |
| 59 | 11:45 | | | 1 | 0 | 3 | 0 | 6 | 0 | 9 | 0 | 12 | 0 | | | | |
| 60 | Total | | | 50 | 67 | | | 21 | 55 | | | 71 | 122 | | | | |
| 61 | Percent | | | 42.7% | 57.3% | | | 27.6% | 72.4% | | | 36.8% | 63.2% | | | | |
| 63 | Grand Total | | | 118 | 145 | | | 48 | 123 | | | 166 | 268 | | | | |
| 64 | Percent | | | 44.9% | 55.1% | | | 28.1% | 71.9% | | | 38.2% | 61.8% | | | | |

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|----|-----------|-----------|-----------|--|-----------|-----------|-----------|-------------|-----------|-----------------|-----------|-------|-------|---|---|---------------------------------|--|
| 1 | | | | GRAM Traffic, Inc. 21220 Jakes Hill Rd Hutto, TX 78634 51 | | | | | | | | | | | | Page 1 | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | Scottsdale Dr | |
| 5 | | | | | | | | | | | | | | | | In between NB and SB Frontage R | |
| 6 | | | | | | | | | | | | | | | | Site Code: | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 18-Sep-13 | Westbound | | Hour Totals | | Eastbound | | Hour Totals | | Combined Totals | | | | | | | |
| 11 | Wed | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | | | | | | |
| 12 | 12:00 | | | 2 | 30 | | | 2 | 7 | | | | | | | | |
| 13 | 12:15 | | | 5 | 30 | | | 0 | 7 | | | | | | | | |
| 14 | 12:30 | | | 5 | 24 | | | 0 | 12 | | | | | | | | |
| 15 | 12:45 | | | 1 | 33 | 13 | 117 | 1 | 24 | 3 | 50 | 16 | 167 | | | | |
| 16 | 01:00 | | | 4 | 26 | | | 1 | 10 | | | | | | | | |
| 17 | 01:15 | | | 3 | 37 | | | 0 | 17 | | | | | | | | |
| 18 | 01:30 | | | 1 | 39 | | | 0 | 10 | | | | | | | | |
| 19 | 01:45 | | | 3 | 34 | 11 | 136 | 0 | 8 | 1 | 45 | 12 | 181 | | | | |
| 20 | 02:00 | | | 0 | 27 | | | 0 | 9 | | | | | | | | |
| 21 | 02:15 | | | 1 | 42 | | | 0 | 8 | | | | | | | | |
| 22 | 02:30 | | | 3 | 39 | | | 0 | 8 | | | | | | | | |
| 23 | 02:45 | | | 1 | 40 | 5 | 148 | 0 | 3 | 0 | 28 | 5 | 176 | | | | |
| 24 | 03:00 | | | 3 | 41 | | | 0 | 8 | | | | | | | | |
| 25 | 03:15 | | | 0 | 42 | | | 0 | 8 | | | | | | | | |
| 26 | 03:30 | | | 1 | 50 | | | 0 | 10 | | | | | | | | |
| 27 | 03:45 | | | 0 | 48 | 4 | 181 | 0 | 11 | 0 | 37 | 4 | 218 | | | | |
| 28 | 04:00 | | | 0 | 60 | | | 1 | 4 | | | | | | | | |
| 29 | 04:15 | | | 0 | 70 | | | 1 | 7 | | | | | | | | |
| 30 | 04:30 | | | 0 | 71 | | | 1 | 8 | | | | | | | | |
| 31 | 04:45 | | | 4 | 80 | 4 | 281 | 1 | 5 | 4 | 24 | 8 | 305 | | | | |
| 32 | 05:00 | | | 1 | 79 | | | 2 | 9 | | | | | | | | |
| 33 | 05:15 | | | 1 | 98 | | | 1 | 11 | | | | | | | | |
| 34 | 05:30 | | | 3 | 114 | | | 4 | 16 | | | | | | | | |
| 35 | 05:45 | | | 7 | 90 | 12 | 381 | 1 | 24 | 8 | 60 | 20 | 441 | | | | |
| 36 | 06:00 | | | 3 | 73 | | | 3 | 19 | | | | | | | | |
| 37 | 06:15 | | | 8 | 70 | | | 6 | 21 | | | | | | | | |
| 38 | 06:30 | | | 6 | 63 | | | 16 | 14 | | | | | | | | |
| 39 | 06:45 | | | 2 | 55 | 19 | 261 | 21 | 9 | 46 | 63 | 65 | 324 | | | | |
| 40 | 07:00 | | | 4 | 60 | | | 39 | 7 | | | | | | | | |
| 41 | 07:15 | | | 18 | 60 | | | 23 | 8 | | | | | | | | |
| 42 | 07:30 | | | 9 | 62 | | | 28 | 8 | | | | | | | | |
| 43 | 07:45 | | | 9 | 63 | 40 | 245 | 39 | 6 | 129 | 29 | 169 | 274 | | | | |
| 44 | 08:00 | | | 18 | 66 | | | 36 | 7 | | | | | | | | |
| 45 | 08:15 | | | 8 | 56 | | | 54 | 3 | | | | | | | | |
| 46 | 08:30 | | | 7 | 49 | | | 25 | 4 | | | | | | | | |
| 47 | 08:45 | | | 15 | 52 | 48 | 223 | 19 | 5 | 134 | 19 | 182 | 242 | | | | |
| 48 | 09:00 | | | 14 | 49 | | | 7 | 7 | | | | | | | | |
| 49 | 09:15 | | | 16 | 45 | | | 4 | 4 | | | | | | | | |
| 50 | 09:30 | | | 4 | 32 | | | 8 | 5 | | | | | | | | |
| 51 | 09:45 | | | 20 | 27 | 54 | 153 | 3 | 1 | 22 | 17 | 76 | 170 | | | | |
| 52 | 10:00 | | | 12 | 19 | | | 6 | 3 | | | | | | | | |
| 53 | 10:15 | | | 17 | 18 | | | 2 | 1 | | | | | | | | |
| 54 | 10:30 | | | 12 | 13 | | | 10 | 1 | | | | | | | | |
| 55 | 10:45 | | | 27 | 13 | 68 | 63 | 2 | 0 | 20 | 5 | 88 | 68 | | | | |
| 56 | 11:00 | | | 20 | 6 | | | 7 | 0 | | | | | | | | |
| 57 | 11:15 | | | 21 | 16 | | | 1 | 0 | | | | | | | | |
| 58 | 11:30 | | | 21 | 9 | | | 9 | 1 | | | | | | | | |
| 59 | 11:45 | | | 31 | 6 | 93 | 37 | 5 | 1 | 22 | 2 | 115 | 39 | | | | |
| 60 | Total | | | 371 | 2226 | | | 389 | 379 | | | 760 | 2605 | | | | |
| 61 | Percent | | | 14.3% | 85.7% | | | 50.7% | 49.3% | | | 22.6% | 77.4% | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
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| 1 | | | | | | | | | | | | | | | | Page 2 |
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| 10 | 19-Sep-13 | Westbound | | | Hour Totals | | Eastbound | | Hour Totals | | Combined Totals | | | | | |
| 11 | Thu | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | | | | | |
| 12 | 12:00 | | | 11 | 27 | | | 0 | 5 | | | | | | | |
| 13 | 12:15 | | | 10 | 22 | | | 1 | 2 | | | | | | | |
| 14 | 12:30 | | | 4 | 29 | | | 0 | 5 | | | | | | | |
| 15 | 12:45 | | | 9 | 22 | 34 | 100 | 2 | 5 | 3 | 17 | 37 | 117 | | | |
| 16 | 01:00 | | | 7 | 25 | | | 1 | 6 | | | | | | | |
| 17 | 01:15 | | | 5 | 24 | | | 0 | 6 | | | | | | | |
| 18 | 01:30 | | | 10 | 26 | | | 0 | 7 | | | | | | | |
| 19 | 01:45 | | | 1 | 32 | 23 | 107 | 0 | 6 | 1 | 25 | 24 | 132 | | | |
| 20 | 02:00 | | | 2 | 25 | | | 0 | 4 | | | | | | | |
| 21 | 02:15 | | | 2 | 47 | | | 0 | 5 | | | | | | | |
| 22 | 02:30 | | | 2 | 31 | | | 0 | 7 | | | | | | | |
| 23 | 02:45 | | | 0 | 37 | 6 | 140 | 0 | 11 | 0 | 27 | 6 | 167 | | | |
| 24 | 03:00 | | | 2 | 33 | | | 0 | 12 | | | | | | | |
| 25 | 03:15 | | | 1 | 39 | | | 0 | 10 | | | | | | | |
| 26 | 03:30 | | | 0 | 24 | | | 1 | 17 | | | | | | | |
| 27 | 03:45 | | | 0 | 42 | 3 | 138 | 0 | 21 | 1 | 60 | 4 | 198 | | | |
| 28 | 04:00 | | | 0 | 58 | | | 2 | 21 | | | | | | | |
| 29 | 04:15 | | | 1 | 60 | | | 0 | 7 | | | | | | | |
| 30 | 04:30 | | | 1 | 55 | | | 0 | 16 | | | | | | | |
| 31 | 04:45 | | | 5 | 73 | 7 | 246 | 2 | 16 | 4 | 60 | 11 | 306 | | | |
| 32 | 05:00 | | | 1 | 88 | | | 1 | 18 | | | | | | | |
| 33 | 05:15 | | | 1 | 106 | | | 1 | 18 | | | | | | | |
| 34 | 05:30 | | | 3 | 93 | | | 4 | 19 | | | | | | | |
| 35 | 05:45 | | | 4 | 97 | 9 | 384 | 2 | 27 | 8 | 82 | 17 | 466 | | | |
| 36 | 06:00 | | | 6 | 73 | | | 2 | 18 | | | | | | | |
| 37 | 06:15 | | | 6 | 69 | | | 4 | 22 | | | | | | | |
| 38 | 06:30 | | | 5 | 82 | | | 10 | 13 | | | | | | | |
| 39 | 06:45 | | | 8 | 64 | 25 | 288 | 16 | 14 | 32 | 67 | 57 | 355 | | | |
| 40 | 07:00 | | | 13 | 51 | | | 25 | 12 | | | | | | | |
| 41 | 07:15 | | | 15 | 55 | | | 45 | 4 | | | | | | | |
| 42 | 07:30 | | | 14 | 54 | | | 27 | 2 | | | | | | | |
| 43 | 07:45 | | | 16 | 58 | 58 | 218 | 35 | 4 | 132 | 22 | 190 | 240 | | | |
| 44 | 08:00 | | | 9 | 71 | | | 41 | 5 | | | | | | | |
| 45 | 08:15 | | | 11 | 51 | | | 62 | 7 | | | | | | | |
| 46 | 08:30 | | | 14 | 45 | | | 31 | 2 | | | | | | | |
| 47 | 08:45 | | | 15 | 34 | 49 | 201 | 11 | 10 | 145 | 24 | 194 | 225 | | | |
| 48 | 09:00 | | | 7 | 43 | | | 8 | 5 | | | | | | | |
| 49 | 09:15 | | | 10 | 35 | | | 1 | 5 | | | | | | | |
| 50 | 09:30 | | | 15 | 34 | | | 6 | 2 | | | | | | | |
| 51 | 09:45 | | | 12 | 35 | 44 | 147 | 3 | 2 | 18 | 14 | 62 | 161 | | | |
| 52 | 10:00 | | | 8 | 23 | | | 5 | 1 | | | | | | | |
| 53 | 10:15 | | | 10 | 23 | | | 6 | 2 | | | | | | | |
| 54 | 10:30 | | | 16 | 16 | | | 9 | 0 | | | | | | | |
| 55 | 10:45 | | | 11 | 17 | 45 | 79 | 5 | 1 | 25 | 4 | 70 | 83 | | | |
| 56 | 11:00 | | | 19 | 8 | | | 3 | 2 | | | | | | | |
| 57 | 11:15 | | | 11 | 6 | | | 4 | 0 | | | | | | | |
| 58 | 11:30 | | | 16 | 10 | | | 6 | 2 | | | | | | | |
| 59 | 11:45 | | | 27 | 10 | 73 | 34 | 2 | 1 | 15 | 5 | 88 | 39 | | | |
| 60 | Total | | | 376 | 2082 | | | 384 | 407 | | | 760 | 2489 | | | |
| 61 | Percent | | | 15.3% | 84.7% | | | 48.5% | 51.5% | | | 23.4% | 76.6% | | | |
| 63 | Grand Total | | | 747 | 4308 | | | 773 | 786 | | | 1520 | 5094 | | | |
| 64 | Percent | | | 14.8% | 85.2% | | | 49.6% | 50.4% | | | 23.0% | 77.0% | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|----|-----------|-----------|-----------|--|-----------|-----------|-----------|-------------|-----------|-----------------|-----------|-------|---|-----|---|
| 1 | | | | GRAM Traffic, Inc. 21220 Jakes Hill Rd Hutto, TX 78634 51 | | | | | | | | | | | |
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| 10 | 18-Sep-13 | Eastbound | | Hour Totals | | Westbound | | Hour Totals | | Combined Totals | | | | | |
| 11 | Wed | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | | | | |
| 12 | 12:00 | | 4 | 52 | | | 3 | 47 | | | | | | | |
| 13 | 12:15 | | 1 | 59 | | | 5 | 59 | | | | | | | |
| 14 | 12:30 | | 0 | 49 | | | 2 | 74 | | | | | | | |
| 15 | 12:45 | | 2 | 47 | 7 | 207 | 3 | 42 | 13 | 222 | 20 | 429 | | | |
| 16 | 01:00 | | 2 | 37 | | | 0 | 35 | | | | | | | |
| 17 | 01:15 | | 0 | 48 | | | 1 | 40 | | | | | | | |
| 18 | 01:30 | | 0 | 35 | | | 3 | 44 | | | | | | | |
| 19 | 01:45 | | 1 | 36 | 3 | 156 | 0 | 48 | 4 | 167 | 7 | 323 | | | |
| 20 | 02:00 | | 1 | 54 | | | 3 | 44 | | | | | | | |
| 21 | 02:15 | | 1 | 42 | | | 0 | 53 | | | | | | | |
| 22 | 02:30 | | 2 | 50 | | | 1 | 47 | | | | | | | |
| 23 | 02:45 | | 7 | 56 | 11 | 202 | 0 | 59 | 4 | 203 | 15 | 405 | | | |
| 24 | 03:00 | | 5 | 35 | | | 0 | 69 | | | | | | | |
| 25 | 03:15 | | 7 | 51 | | | 1 | 78 | | | | | | | |
| 26 | 03:30 | | 8 | 44 | | | 2 | 85 | | | | | | | |
| 27 | 03:45 | | 17 | 45 | 37 | 175 | 3 | 94 | 6 | 326 | 43 | 501 | | | |
| 28 | 04:00 | | 13 | 49 | | | 2 | 86 | | | | | | | |
| 29 | 04:15 | | 25 | 70 | | | 2 | 105 | | | | | | | |
| 30 | 04:30 | | 36 | 68 | | | 4 | 115 | | | | | | | |
| 31 | 04:45 | | 34 | 80 | 108 | 267 | 10 | 91 | 18 | 397 | 126 | 664 | | | |
| 32 | 05:00 | | 50 | 71 | | | 4 | 87 | | | | | | | |
| 33 | 05:15 | | 91 | 76 | | | 10 | 76 | | | | | | | |
| 34 | 05:30 | | 121 | 74 | | | 12 | 77 | | | | | | | |
| 35 | 05:45 | | 131 | 58 | 393 | 279 | 20 | 56 | 46 | 296 | 439 | 575 | | | |
| 36 | 06:00 | | 191 | 34 | | | 25 | 65 | | | | | | | |
| 37 | 06:15 | | 135 | 48 | | | 40 | 58 | | | | | | | |
| 38 | 06:30 | | 143 | 37 | | | 32 | 74 | | | | | | | |
| 39 | 06:45 | | 144 | 35 | 613 | 154 | 21 | 78 | 118 | 275 | 731 | 429 | | | |
| 40 | 07:00 | | 146 | 31 | | | 30 | 88 | | | | | | | |
| 41 | 07:15 | | 152 | 28 | | | 23 | 63 | | | | | | | |
| 42 | 07:30 | | 93 | 30 | | | 37 | 54 | | | | | | | |
| 43 | 07:45 | | 78 | 32 | 469 | 121 | 28 | 63 | 118 | 268 | 587 | 389 | | | |
| 44 | 08:00 | | 52 | 33 | | | 21 | 54 | | | | | | | |
| 45 | 08:15 | | 55 | 20 | | | 22 | 49 | | | | | | | |
| 46 | 08:30 | | 55 | 17 | | | 8 | 42 | | | | | | | |
| 47 | 08:45 | | 43 | 9 | 205 | 79 | 20 | 29 | 71 | 174 | 276 | 253 | | | |
| 48 | 09:00 | | 27 | 13 | | | 17 | 18 | | | | | | | |
| 49 | 09:15 | | 29 | 8 | | | 19 | 20 | | | | | | | |
| 50 | 09:30 | | 40 | 7 | | | 16 | 15 | | | | | | | |
| 51 | 09:45 | | 36 | 4 | 132 | 32 | 26 | 13 | 78 | 66 | 210 | 98 | | | |
| 52 | 10:00 | | 33 | 3 | | | 25 | 9 | | | | | | | |
| 53 | 10:15 | | 29 | 2 | | | 19 | 16 | | | | | | | |
| 54 | 10:30 | | 37 | 4 | | | 30 | 9 | | | | | | | |
| 55 | 10:45 | | 40 | 7 | 139 | 16 | 42 | 6 | 116 | 40 | 255 | 56 | | | |
| 56 | 11:00 | | 44 | 5 | | | 27 | 12 | | | | | | | |
| 57 | 11:15 | | 43 | 7 | | | 31 | 10 | | | | | | | |
| 58 | 11:30 | | 49 | 1 | | | 35 | 4 | | | | | | | |
| 59 | 11:45 | | 65 | 6 | 201 | 19 | 38 | 9 | 131 | 35 | 332 | 54 | | max | |
| 60 | Total | | | 2318 | 1707 | | 723 | 2469 | | | 3041 | 4176 | | | |
| 61 | Percent | | | 57.6% | 42.4% | | 22.7% | 77.3% | | | 42.1% | 57.9% | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
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| 5 | | | | | | | | | | | | | | Scottsdale |
| 6 | | | | | | | | | | | | | | Between 13 |
| 7 | | | | | | | | | | | | | | Site Code: |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | 19-Sep-13 | Eastbound | | | Hour Totals | | Westbound | | Hour Totals | | Combined Totals | | |
| 11 | | Thu | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | Morning | Afternoon | | |
| 12 | 12:00 | | | 5 | 35 | | | 8 | 31 | | | | | |
| 13 | 12:15 | | | 3 | 26 | | | 5 | 27 | | | | | |
| 14 | 12:30 | | | 3 | 25 | | | 10 | 31 | | | | | |
| 15 | 12:45 | | | 1 | 30 | 12 | 116 | 2 | 32 | 25 | 121 | 37 | 237 | |
| 16 | 01:00 | | | 3 | 39 | | | 2 | 28 | | | | | |
| 17 | 01:15 | | | 2 | 35 | | | 2 | 50 | | | | | |
| 18 | 01:30 | | | 2 | 46 | | | 2 | 34 | | | | | |
| 19 | 01:45 | | | 2 | 28 | 9 | 148 | 0 | 44 | 6 | 156 | 15 | 304 | |
| 20 | 02:00 | | | 1 | 62 | | | 3 | 42 | | | | | |
| 21 | 02:15 | | | 1 | 36 | | | 1 | 40 | | | | | |
| 22 | 02:30 | | | 2 | 48 | | | 0 | 35 | | | | | |
| 23 | 02:45 | | | 3 | 52 | 7 | 198 | 0 | 57 | 4 | 174 | 11 | 372 | |
| 24 | 03:00 | | | 4 | 53 | | | 1 | 84 | | | | | |
| 25 | 03:15 | | | 11 | 50 | | | 1 | 96 | | | | | |
| 26 | 03:30 | | | 4 | 60 | | | 2 | 76 | | | | | |
| 27 | 03:45 | | | 16 | 57 | 35 | 220 | 4 | 92 | 8 | 348 | 43 | 568 | |
| 28 | 04:00 | | | 13 | 73 | | | 0 | 103 | | | | | |
| 29 | 04:15 | | | 19 | 93 | | | 1 | 122 | | | | | |
| 30 | 04:30 | | | 26 | 72 | | | 4 | 102 | | | | | |
| 31 | 04:45 | | | 39 | 87 | 97 | 325 | 5 | 100 | 10 | 427 | 107 | 752 | |
| 32 | 05:00 | | | 44 | 74 | | | 7 | 84 | | | | | |
| 33 | 05:15 | | | 100 | 78 | | | 9 | 89 | | | | | |
| 34 | 05:30 | | | 97 | 66 | | | 10 | 100 | | | | | |
| 35 | 05:45 | | | 137 | 54 | 378 | 272 | 28 | 70 | 54 | 343 | 432 | 615 | |
| 36 | 06:00 | | | 158 | 49 | | | 29 | 70 | | | | | |
| 37 | 06:15 | | | 168 | 40 | | | 24 | 81 | | | | | |
| 38 | 06:30 | | | 138 | 32 | | | 34 | 67 | | | | | |
| 39 | 06:45 | | | 154 | 30 | 618 | 151 | 30 | 62 | 117 | 280 | 735 | 431 | |
| 40 | 07:00 | | | 142 | 42 | | | 24 | 81 | | | | | |
| 41 | 07:15 | | | 159 | 22 | | | 37 | 61 | | | | | |
| 42 | 07:30 | | | 101 | 17 | | | 38 | 58 | | | | | |
| 43 | 07:45 | | | 85 | 33 | 487 | 114 | 35 | 40 | 134 | 240 | 621 | 354 | |
| 44 | 08:00 | | | 58 | 26 | | | 12 | 54 | | | | | |
| 45 | 08:15 | | | 42 | 19 | | | 15 | 45 | | | | | |
| 46 | 08:30 | | | 42 | 13 | | | 14 | 36 | | | | | |
| 47 | 08:45 | | | 55 | 9 | 197 | 67 | 18 | 40 | 59 | 175 | 256 | 242 | |
| 48 | 09:00 | | | 37 | 14 | | | 18 | 29 | | | | | |
| 49 | 09:15 | | | 45 | 12 | | | 16 | 23 | | | | | |
| 50 | 09:30 | | | 40 | 6 | | | 18 | 16 | | | | | |
| 51 | 09:45 | | | 41 | 5 | 163 | 37 | 13 | 17 | 65 | 85 | 228 | 122 | |
| 52 | 10:00 | | | 36 | 4 | | | 21 | 12 | | | | | |
| 53 | 10:15 | | | 34 | 4 | | | 16 | 7 | | | | | |
| 54 | 10:30 | | | 30 | 7 | | | 21 | 9 | | | | | |
| 55 | 10:45 | | | 24 | 5 | 124 | 20 | 31 | 12 | 89 | 40 | 213 | 60 | |
| 56 | 11:00 | | | 35 | 1 | | | 31 | 6 | | | | | |
| 57 | 11:15 | | | 36 | 4 | | | 25 | 4 | | | | | |
| 58 | 11:30 | | | 33 | 2 | | | 32 | 4 | | | | | |
| 59 | 11:45 | | | 44 | 5 | 148 | 12 | 29 | 13 | 117 | 27 | 265 | 39 | |
| 60 | Total | | | 2275 | 1680 | | | 688 | 2416 | | | 2963 | 4096 | |
| 61 | Percent | | | 57.5% | 42.5% | | | 22.2% | 77.8% | | | 42.0% | 58.0% | |
| 63 | Grand Total | | | 4593 | 3387 | | | 1411 | 4885 | | | 6004 | 8272 | |
| 64 | Percent | | | 57.6% | 42.4% | | | 22.4% | 77.6% | | | 42.1% | 57.9% | |

GRAM Traffic, Inc.

21220 Jakes Hill Rd
Hutto, TX 78634

512-832-8650

File Name : Scottsdale-NBpm
 Site Code : 0000003
 Start Date : 9/19/2013
 Page No : 1

| | | Southbound | | | | | Scottsdale Westbound | | | | | US 183A Frontage | | | | | Scottsdale Eastbound | | | | | | | |
|-------------|---|------------|------|-------|------|------------|----------------------|------|-------|------|------------|------------------|------|-------|-------|------------|----------------------|------|-------|------|------------|------------|------|------|
| Start Time | | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total | | |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 34 | 97 | 1 | 0 | 132 | 16 | 0 | 0 | 0 | 16 | 152 | | |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 53 | 102 | 1 | 3 | 159 | 22 | 0 | 0 | 0 | 22 | 182 | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 87 | 199 | 2 | 3 | 291 | 38 | 0 | 0 | 0 | 38 | 334 | |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 42 | 93 | 1 | 0 | 136 | 14 | 0 | 0 | 0 | 14 | 151 | |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 94 | 1 | 2 | 172 | 9 | 0 | 0 | 0 | 9 | 181 | |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 76 | 140 | 2 | 2 | 220 | 7 | 0 | 0 | 0 | 7 | 228 | |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 72 | 161 | 1 | 2 | 236 | 28 | 0 | 0 | 0 | 28 | 266 | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 265 | 488 | 5 | 6 | 764 | 58 | 0 | 0 | 0 | 0 | 58 | 826 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 77 | 148 | 0 | 0 | 225 | 20 | 0 | 0 | 0 | 0 | 20 | 249 | |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 100 | 167 | 0 | 1 | 268 | 21 | 1 | 0 | 0 | 0 | 22 | 291 | |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 161 | 0 | 1 | 252 | 21 | 0 | 0 | 0 | 0 | 21 | 273 | |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 | 124 | 0 | 2 | 207 | 15 | 1 | 0 | 0 | 0 | 16 | 223 | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 348 | 600 | 0 | 4 | 952 | 77 | 2 | 0 | 0 | 0 | 79 | 1036 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 82 | 130 | 0 | 3 | 215 | 20 | 0 | 0 | 0 | 0 | 20 | 236 | |
| 18:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 127 | 0 | 4 | 190 | 15 | 0 | 0 | 0 | 0 | 15 | 205 | |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 86 | 108 | 0 | 2 | 196 | 12 | 0 | 0 | 0 | 0 | 12 | 208 | |
| 18:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 91 | 1 | 0 | 155 | 9 | 0 | 0 | 0 | 0 | 9 | 164 | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 290 | 456 | 1 | 9 | 756 | 56 | 0 | 0 | 0 | 0 | 56 | 813 |
| 19:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 61 | 104 | 1 | 2 | 168 | 7 | 1 | 0 | 0 | 0 | 8 | 179 |
| 19:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 43 | 85 | 0 | 1 | 129 | 8 | 2 | 0 | 0 | 0 | 10 | 141 | |
| 19:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 53 | 90 | 1 | 0 | 144 | 5 | 1 | 0 | 0 | 0 | 6 | 152 | |
| 19:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 52 | 63 | 0 | 0 | 115 | 9 | 2 | 0 | 0 | 0 | 11 | 127 | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 8 | 209 | 342 | 2 | 3 | 556 | 29 | 6 | 0 | 0 | 0 | 35 | 599 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 6 | 0 | 23 | 1199 | 2085 | 10 | 25 | 3319 | 258 | 8 | 0 | 0 | 0 | 266 | 3608 | |
| Approch % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73.9 | 26.1 | 0 | 36.1 | 62.8 | 0.3 | 0.8 | 97 | 3 | 0 | 0 | 0 | 0 | 0 | 7.4 | | |
| Total % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0.2 | 0 | 0.6 | 33.2 | 57.8 | 0.3 | 0.7 | 92 | 7.2 | 0.2 | 0 | 0 | 0 | 7.4 | | |

GRAM Traffic, Inc.

21220 Jakes Hill Rd
Hutto, TX 78634

512-832-8650

File Name : Scottsdale-NBpm
 Site Code : 00000003
 Start Date : 9/19/2013
 Page No : 2

| | | Southbound | | | | | Scottsdale Westbound | | | | | US 183A Frontage Northbound | | | | | Scottsdale Eastbound | | | | |
|---|------|------------|-------|------|------------|------|----------------------|-------|------|------------|------|-----------------------------|-------|-------|------------|-----------|----------------------|-------|------|------------|------------|
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 15:30 to 19:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:45 | | | | | | | | | | | | | | | | | | | | | |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 72 | 161 | 1 | 2 | 236 | 28 | 0 | 0 | 0 | 28 | 266 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 77 | 148 | 0 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 249 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 100 | 167 | 0 | 1 | 268 | 21 | 1 | 0 | 0 | 0 | 22 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 161 | 0 | 1 | 252 | 21 | 0 | 0 | 0 | 0 | 273 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 339 | 637 | 1 | 4 | 981 | 90 | 1 | 0 | 0 | 0 | 91 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 34.6 | 64.9 | 0.1 | 0.4 | 98.9 | .90 | 1.1 | 0 | 0 | 0 | 1079 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .438 | .000 | .000 | .438 | .848 | .954 | .250 | .500 | .915 | .804 | .250 | .000 | .000 | .813 | .927 |

Peak Hour Analysis From 15:30 to 19:45 - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 15:30 | 16:30 | 16:45 | 16:45 |
|--------------|-------|-------|-------|-------|
| +0 mins. | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 |

Peak Hour Analysis From 15:30 to 19:45 - Peak 1 of 1

GRAM Traffic, Inc.

21220 Jakes Hill Rd
Hutto, TX 78634

512-832-8650

File Name : scottsdale-nbam
 Site Code : 00000003
 Start Date : 9/19/2013
 Page No : 1

| | | Southbound | | | | | Scottsdale Westbound | | | | | US 183A Frontage | | | | | Scottsdale Eastbound | | | | | |
|-------------|---|------------|------|-------|------|------------|----------------------|------|-------|------|------------|------------------|------|-------|-------|------------|----------------------|------|-------|------|------------|------------|
| Start Time | | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 19 | 0 | 0 | 23 | 2 | 0 | 0 | 0 | 2 | 25 |
| 06:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 32 | 0 | 1 | 35 | 5 | 0 | 0 | 0 | 5 | 40 |
| 06:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 21 | 2 | 0 | 29 | 15 | 0 | 0 | 0 | 15 | 44 |
| 06:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 32 | 0 | 0 | 43 | 15 | 0 | 0 | 0 | 15 | 53 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 104 | 2 | 1 | 130 | 37 | 0 | 0 | 0 | 37 | 167 |
| 07:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 39 | 1 | 2 | 49 | 23 | 0 | 0 | 0 | 23 | 72 |
| 07:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 0 | 3 | 63 | 36 | 0 | 0 | 0 | 36 | 99 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 75 | 0 | 0 | 84 | 32 | 0 | 0 | 0 | 32 | 116 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 74 | 0 | 3 | 91 | 52 | 0 | 0 | 0 | 52 | 143 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 238 | 1 | 8 | 287 | 143 | 0 | 0 | 0 | 0 | 430 |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 75 | 1 | 1 | 89 | 33 | 0 | 0 | 0 | 33 | 122 |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 76 | 2 | 3 | 96 | 46 | 1 | 0 | 0 | 47 | 143 |
| 08:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 48 | 1 | 0 | 58 | 47 | 0 | 0 | 0 | 47 | 105 |
| 08:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 38 | 1 | 0 | 53 | 10 | 0 | 0 | 0 | 10 | 63 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 237 | 5 | 4 | 296 | 136 | 1 | 0 | 0 | 0 | 433 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 113 | 579 | 8 | 13 | 713 | 316 | 1 | 0 | 0 | 0 | 317 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15.8 | 81.2 | 1.1 | 1.8 | 99.7 | 0.3 | 0 | 0 | 0 | 0 | 1030 |
| Total % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 56.2 | 0.8 | 1.3 | 69.2 | 30.7 | 0.1 | 0 | 0 | 0 | 30.8 |

| | | Southbound | | | | | Scottsdale Westbound | | | | | US 183A Frontage | | | | | Scottsdale Eastbound | | | | |
|---|------|------------|-------|------|------------|------|----------------------|-------|------|------------|------|------------------|-------|-------|------------|------|----------------------|-------|------|------------|------------|
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 75 | 0 | 0 | 84 | 32 | 0 | 0 | 0 | 0 | 32 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 74 | 0 | 3 | 91 | 52 | 0 | 0 | 0 | 0 | 52 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 75 | 1 | 1 | 89 | 33 | 0 | 0 | 0 | 0 | 33 |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 76 | 2 | 3 | 96 | 46 | 1 | 0 | 0 | 0 | 47 |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 38 | 1 | 0 | 53 | 10 | 0 | 0 | 0 | 10 | 63 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13.9 | 83.3 | 0.8 | 1.9 | 99.4 | 0.6 | 0 | 0 | 0 | 0 | 164 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15.8 | 81.2 | 1.1 | 1.8 | 99.7 | 0.3 | 0 | 0 | 0 | 0 | 524 |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .833 | .987 | .375 | .583 | .938 | .784 | .250 | .000 | .000 | .000 | .916 |

GRAM Traffic, Inc.

21220 Jakes Hill Rd
Hutto, TX 78634

512-832-8650

File Name : scottsdale-nbam
Site Code : 00000003
Start Date : 9/19/2013
Page No : 2

| | | Southbound | | | | Scottsdale Westbound | | | | US 183A Frontage Northbound | | | | Scottsdale Eastbound | | | | | | | |
|---|-------|------------|-------|------|------------|----------------------|------|-------|------|-----------------------------|------|------|-------|----------------------|------------|------|------|-------|------|------------|-----------|
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | |
| Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | 06:00 | | | | 06:00 | | | | | 07:30 | | | | | 07:45 | | | | | | |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 75 | 0 | 0 | 84 | 52 | 0 | 0 | 0 | 0 | 0 | 52 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 74 | 0 | 3 | 91 | 33 | 0 | 0 | 0 | 0 | 0 | 33 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 75 | 1 | 1 | 89 | 46 | 1 | 0 | 0 | 0 | 0 | 47 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 76 | 2 | 3 | 96 | 47 | 0 | 0 | 0 | 0 | 0 | 47 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 300 | 3 | 7 | 360 | 178 | 1 | 0 | 0 | 0 | 0 | 179 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13.9 | 83.3 | 0.8 | 1.9 | 99.4 | 0.6 | 0 | 0 | 0 | 0 | 0 | .861 |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .833 | .987 | .375 | .583 | .938 | .856 | .250 | .000 | .000 | .000 | .000 | .861 |

GRAM Traffic, Inc.

21220 Jakes Hill Rd
Hutto, TX 78634

512-832-8650

File Name : Scottsdale-SBpm
 Site Code : 0000003
 Start Date : 9/18/2013
 Page No : 1

| | | US 183A Frontage | | | | | Scottsdale Westbound | | | | | Northbound | | | | | Scottsdale Eastbound | | | | |
|-------------|-----|------------------|------|-------|-------|------------|----------------------|------|-------|------|------------|------------|------|-------|------|------------|----------------------|------|-------|------|------------|
| | | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total |
| Start Time | | | | | | Start Time | | | | | Start Time | | | | | Start Time | | | | | |
| 15:30 | 0 | 51 | 11 | 0 | 62 | 3 | 44 | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 36 | 0 | 46 | 155 |
| 15:45 | 4 | 68 | 11 | 0 | 83 | 3 | 48 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 42 | 0 | 46 | 180 |
| Total | 4 | 119 | 22 | 0 | 145 | 6 | 92 | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 78 | 0 | 92 | 335 |
| 16:00 | 0 | 78 | 10 | 0 | 88 | 1 | 56 | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 33 | 0 | 39 | 184 |
| 16:15 | 0 | 70 | 14 | 0 | 84 | 2 | 62 | 0 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 36 | 0 | 41 | 189 |
| 16:30 | 0 | 69 | 14 | 0 | 83 | 0 | 68 | 0 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 26 | 0 | 36 | 187 |
| 16:45 | 0 | 86 | 19 | 2 | 107 | 0 | 78 | 0 | 0 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 44 | 0 | 49 | 234 |
| Total | 0 | 303 | 57 | 2 | 362 | 3 | 264 | 0 | 0 | 267 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 139 | 0 | 165 | 794 |
| 17:00 | 0 | 76 | 7 | 0 | 83 | 2 | 84 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 34 | 0 | 43 | 212 |
| 17:15 | 0 | 108 | 15 | 0 | 123 | 3 | 89 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 48 | 0 | 56 | 266 |
| 17:30 | 0 | 91 | 11 | 2 | 104 | 1 | 109 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 47 | 0 | 61 | 275 |
| 17:45 | 0 | 83 | 9 | 0 | 92 | 1 | 87 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 50 | 0 | 77 | 257 |
| Total | 0 | 358 | 42 | 2 | 402 | 7 | 364 | 0 | 0 | 371 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 179 | 0 | 237 | 1010 |
| 18:00 | 0 | 85 | 19 | 1 | 105 | 1 | 73 | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 40 | 0 | 56 | 235 |
| 18:15 | 0 | 75 | 7 | 0 | 82 | 0 | 70 | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 43 | 0 | 63 | 215 |
| 18:30 | 0 | 76 | 19 | 3 | 98 | 0 | 61 | 0 | 0 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 52 | 0 | 68 | 227 |
| 18:45 | 1 | 72 | 5 | 0 | 78 | 1 | 54 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 48 | 0 | 54 | 187 |
| Total | 1 | 308 | 50 | 4 | 363 | 2 | 258 | 0 | 0 | 260 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 183 | 0 | 241 | 864 |
| 19:00 | 0 | 61 | 7 | 0 | 68 | 1 | 57 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 23 | 0 | 29 | 155 |
| 19:15 | 0 | 51 | 5 | 2 | 58 | 1 | 51 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 36 | 0 | 43 | 153 |
| 19:30 | 0 | 37 | 7 | 2 | 46 | 1 | 65 | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 21 | 0 | 29 | 141 |
| 19:45 | 0 | 51 | 18 | 1 | 70 | 0 | 57 | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 27 | 0 | 35 | 162 |
| Total | 0 | 200 | 37 | 5 | 242 | 3 | 230 | 0 | 0 | 233 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 107 | 0 | 136 | 611 |
| Grand Total | 5 | 1288 | 208 | 13 | 1514 | 21 | 1208 | 0 | 0 | 1229 | 0 | 0 | 0 | 0 | 0 | 0 | 185 | 686 | 0 | 871 | 3614 |
| Approch % | 0.3 | 85.1 | 13.7 | 0.9 | 1.7 | 1.7 | 98.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21.2 | 78.8 | 0 | 871 | 3614 |
| Total % | 0.1 | 35.6 | 5.8 | 0.4 | 41.9 | 0.6 | 33.4 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 5.1 | 19 | 0 | 24.1 | |

GRAM Traffic, Inc.

21220 Jakes Hill Rd
Hutto, TX 78634

512-832-8650

File Name : Scottsdale-SBpm
 Site Code : 0000003
 Start Date : 9/18/2013
 Page No : 2

| | | US 183A Frontage | | | | | Scottsdale Westbound | | | | | Northbound | | | | | Scottsdale Eastbound | | | | |
|---|------|------------------|-----------|-------|------------|------|----------------------|-------|------|------------|------|------------|-------|------|------------|------|----------------------|-------|------|------------|--|
| Start Time | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | |
| Peak Hour Analysis From 15:30 to 19:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 17:15 | | | | | | | | | | | | | | | | | | | | | |
| 17:15 | 0 | 108 | 15 | 0 | 123 | 3 | 84 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 8 | 48 | 0 | 56 | 266 | |
| 17:30 | 0 | 91 | 11 | 2 | 104 | 1 | 109 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 14 | 47 | 0 | 61 | 275 | |
| 17:45 | 0 | 83 | 9 | 0 | 92 | 1 | 87 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 27 | 50 | 0 | 77 | 257 | |
| 18:00 | 0 | 85 | 19 | 1 | 105 | 1 | 73 | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 16 | 40 | 0 | 56 | 235 | |
| Total Volume | 0 | 367 | 54 | 3 | 424 | 6 | 353 | 0 | 0 | 359 | 0 | 0 | 0 | 0 | 0 | 65 | 185 | 0 | 250 | 1033 | |
| % App. Total | 0 | 86.6 | 12.7 | 0.7 | 424 | 1.7 | 98.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 74 | 0 | 250 | 1033 | |
| PHF | .000 | .850 | .711 | .375 | .862 | .500 | .810 | .000 | .000 | .816 | .000 | .000 | .000 | .000 | .000 | .602 | .925 | .000 | .812 | .939 | |

Peak Hour Analysis From 15:30 to 19:45 - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 17:15 | 17:00 | | | | | 15:30 | | | | | 17:45 | | | | | | | |
|--------------|-------|------------|-----------|------|------------|------|------------|------|------|------------|------|-------|------|------|------|-----------|-----------|------|-----------|
| +0 mins. | 0 | 108 | 15 | 0 | 123 | 2 | 84 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 27 | 50 | 0 | 77 |
| +15 mins. | 0 | 91 | 11 | 2 | 104 | 3 | 84 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 16 | 40 | 0 | 56 |
| +30 mins. | 0 | 83 | 9 | 0 | 92 | 1 | 109 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 20 | 43 | 0 | 63 |
| +45 mins. | 0 | 85 | 19 | 1 | 105 | 1 | 87 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 16 | 52 | 0 | 68 |
| Total Volume | 0 | 367 | 54 | 3 | 424 | 7 | 364 | 0 | 0 | 371 | 0 | 0 | 0 | 0 | 0 | 79 | 185 | 0 | 264 |
| % App. Total | 0 | 86.6 | 12.7 | 0.7 | 424 | 1.9 | 98.1 | 0 | 0 | 371 | 0 | 0 | 0 | 0 | 0 | 29.9 | 185 | 0 | 264 |
| PHF | .000 | .850 | .711 | .375 | .862 | .583 | .835 | .000 | .000 | .843 | .000 | .000 | .000 | .000 | .000 | .731 | .889 | .000 | .857 |

GRAM Traffic, Inc.

21220 Jakes Hill Rd
Hutto, TX 78634
512-832-8650

File Name : scottsdale-sbam
Site Code : 00000003
Start Date : 9/18/2013
Page No : 1

Groups Printed- Autos

| | | US 183A Frontage | | | | | Scottsdale Westbound | | | | | Northbound | | | | | Scottsdale Eastbound | | | | | |
|-------------|-----|------------------|------|-------|-------|------------|----------------------|------|-------|------|------------|------------|------|-------|------|------------|----------------------|------|-------|------|------------|------------|
| Start Time | | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 06:00 | 0 | 54 | 1 | 0 | 55 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 42 | 0 | 45 | 106 | |
| 06:15 | 0 | 80 | 0 | 0 | 80 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 70 | 0 | 74 | 162 | |
| 06:30 | 0 | 98 | 4 | 0 | 102 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 92 | 0 | 109 | 216 | |
| 06:45 | 1 | 105 | 11 | 1 | 118 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 101 | 0 | 120 | 242 | |
| Total | 1 | 337 | 16 | 1 | 355 | 1 | 22 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 305 | 0 | 348 | 726 | |
| 07:00 | 0 | 101 | 14 | 0 | 115 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 140 | 0 | 173 | 289 | |
| 07:15 | 0 | 138 | 15 | 0 | 153 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 108 | 0 | 137 | 307 | |
| 07:30 | 0 | 107 | 20 | 2 | 129 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 101 | 0 | 129 | 269 | |
| 07:45 | 1 | 137 | 9 | 0 | 147 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 87 | 0 | 125 | 273 | |
| Total | 1 | 483 | 58 | 2 | 544 | 0 | 35 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 128 | 436 | 0 | 564 | 1143 | |
| 08:00 | 0 | 138 | 13 | 2 | 153 | 2 | 15 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 88 | 0 | 120 | 290 | |
| 08:15 | 0 | 113 | 16 | 0 | 129 | 1 | 10 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 53 | 76 | 0 | 129 | 269 | |
| 08:30 | 0 | 124 | 23 | 4 | 151 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 63 | 0 | 95 | 252 | |
| 08:45 | 0 | 107 | 19 | 1 | 127 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 71 | 0 | 90 | 230 | |
| Total | 0 | 482 | 71 | 7 | 560 | 3 | 44 | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136 | 298 | 0 | 434 | 1041 |
| Grand Total | 2 | 1302 | 145 | 10 | 1459 | 4 | 101 | 0 | 0 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 307 | 1039 | 0 | 1346 | 2910 | |
| Apprch % | 0.1 | 89.2 | 9.9 | 0.7 | 96.2 | 0 | 3.8 | 0 | 0 | 3.5 | 0 | 0 | 0 | 0 | 0 | 0 | 22.8 | 77.2 | 0 | 1346 | 2910 | |
| Total % | 0.1 | 44.7 | 5 | 0.3 | 50.1 | 0.1 | 3.5 | 0 | 0 | 3.6 | 0 | 0 | 0 | 0 | 0 | 0 | 10.5 | 35.7 | 0 | 46.3 | 1143 | |

| US 183A Frontage | | | | | Scottsdale Westbound | | | | | Northbound | | | | | Scottsdale Eastbound | | | | | | |
|---|------|------|-------|-------|----------------------|------|------|-------|------|------------|------|------|-------|------|----------------------|------|------|-------|------|------------|------------|
| Start Time | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 | 0 | 138 | 15 | 0 | 153 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 108 | 0 | 137 | 307 |
| 07:15 | 0 | 107 | 20 | 2 | 129 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 101 | 0 | 129 | 269 |
| 07:30 | 0 | 138 | 13 | 2 | 153 | 0 | 147 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 87 | 0 | 125 | 273 |
| 07:45 | 1 | 137 | 9 | 0 | 147 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 88 | 0 | 120 | 290 |
| 08:00 | 0 | 138 | 13 | 2 | 153 | 2 | 15 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 520 | 57 | 4 | 582 | 2 | 49 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 384 | 0 | 511 | 1144 |
| % App. Total | 0.2 | 89.3 | 9.8 | 0.7 | 96.1 | 0 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 24.9 | 75.1 | 0 | 1346 | 2910 |
| PHF | .250 | .942 | .713 | .500 | .951 | .250 | .721 | .000 | .000 | .750 | .000 | .000 | .000 | .000 | .000 | .000 | .836 | .889 | .000 | .932 | .932 |

GRAM Traffic, Inc.

21220 Jakes Hill Rd
Hutto, TX 78634

512-832-8650

File Name : scottsdale-sbam
Site Code : 00000003
Start Date : 9/18/2013
Page No : 2

| | | US 183A Frontage | | | | | Scottsdale Westbound | | | | | Northbound | | | | | Scottsdale Eastbound | | | | | |
|---|------|------------------|-------|-------|------------|-------|----------------------|-------|------|------------|------|------------|-------|------|------------|-------|----------------------|-------|------|------------|------------|------|
| Start Time | Left | Thru | Right | Uturn | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total | |
| Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | | |
| 07:15 | 0 | 138 | 15 | 0 | 153 | 07:15 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 06:00 | 0 | 0 | 0 | 0 | 07:00 | 0 |
| +0 mins. | 0 | 107 | 20 | 2 | 129 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 33 | 140 |
| +15 mins. | 1 | 137 | 9 | 0 | 147 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 108 | 0 |
| +30 mins. | 0 | 138 | 13 | 2 | 153 | 2 | 15 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 101 | 0 |
| +45 mins. | | | | | | | | | | | | | | | | | | | | | 125 | 564 |
| Total Volume | 1 | 520 | 57 | 4 | 582 | 2 | 49 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 | 436 | 0 | 173 |
| % App. Total | 0.2 | 89.3 | 9.8 | 0.7 | .951 | 3.9 | 96.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22.7 | 77.3 | 0 | 137 |
| PHF | .250 | .942 | .713 | .500 | .951 | .250 | .721 | .000 | .000 | .750 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .842 | .779 | .000 | .815 |

| | | | | |
|--------------------|--------------------------------|-------------|--|--|
| Location | 183A SBFR and Scottsdale Drive | | | |
| | Cedar Park, Texas | | | |
| North-South street | 183A SBFR | Speed Limit | | |
| East-West street | Scottsdale Drive | Speed Limit | | |
| Time period | 3:00 pm - 8:00 pm | | | |
| Counted By | | | | |
| Date | December 12, 2013 | | | |



Auto- Heavy Vehicle Counts

| Start Time | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | |
|------------|------------|------|-------|------|------------|------|-------|------|-----------|------|-------|------|-----------|------|-------|------|
| | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 53 | 6 | 0 | 0 | 9 | 35 | 0 | 1 | 42 | 0 | 0 |
| 3:15 PM | 0 | 0 | 0 | 0 | 1 | 78 | 10 | 0 | 0 | 15 | 30 | 0 | 5 | 51 | 0 | 0 |
| 3:30 PM | 0 | 0 | 0 | 0 | 0 | 86 | 7 | 0 | 0 | 19 | 38 | 0 | 0 | 50 | 0 | 0 |
| 3:45 PM | 0 | 0 | 0 | 0 | 0 | 93 | 24 | 0 | 0 | 19 | 28 | 0 | 2 | 53 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 1 | 310 | 47 | 0 | 0 | 62 | 131 | 0 | 8 | 196 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 118 | 31 | 0 | 0 | 25 | 22 | 0 | 3 | 53 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 103 | 50 | 0 | 0 | 18 | 34 | 0 | 5 | 74 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 105 | 40 | 0 | 0 | 15 | 30 | 0 | 2 | 88 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 115 | 35 | 0 | 0 | 16 | 35 | 0 | 2 | 89 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 441 | 156 | 0 | 0 | 74 | 121 | 0 | 12 | 304 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| 5:00 PM | 0 | 0 | 0 | 0 | 1 | 121 | 30 | 0 | 0 | 19 | 36 | 0 | 3 | 88 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 126 | 12 | 0 | 0 | 19 | 35 | 0 | 2 | 87 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 2 | 125 | 20 | 0 | 0 | 17 | 39 | 0 | 1 | 107 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 3 | 124 | 21 | 0 | 0 | 28 | 52 | 0 | 2 | 104 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 6 | 496 | 83 | 0 | 0 | 83 | 162 | 0 | 8 | 386 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 128 | 14 | 0 | 0 | 26 | 50 | 0 | 3 | 105 | 0 | 0 |
| 6:15 PM | 0 | 0 | 0 | 0 | 0 | 138 | 19 | 0 | 0 | 22 | 48 | 0 | 5 | 101 | 0 | 0 |
| 6:30 PM | 0 | 0 | 0 | 0 | 3 | 142 | 13 | 0 | 0 | 23 | 49 | 0 | 3 | 74 | 0 | 0 |
| 6:45 PM | 0 | 0 | 0 | 0 | 2 | 125 | 13 | 0 | 0 | 18 | 41 | 0 | 5 | 79 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 5 | 533 | 59 | 0 | 0 | 89 | 188 | 0 | 16 | 359 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 113 | 11 | 0 | 0 | 18 | 42 | 0 | 6 | 76 | 0 | 0 |
| 7:15 PM | 0 | 0 | 0 | 0 | 2 | 103 | 13 | 0 | 0 | 16 | 33 | 0 | 2 | 66 | 0 | 0 |
| 7:30 PM | 0 | 0 | 0 | 0 | 0 | 81 | 15 | 0 | 0 | 12 | 30 | 0 | 1 | 63 | 0 | 0 |
| 7:45 PM | 0 | 0 | 0 | 0 | 0 | 86 | 12 | 0 | 0 | 15 | 32 | 0 | 2 | 61 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 2 | 383 | 51 | 0 | 0 | 61 | 137 | 0 | 11 | 266 | 0 | 0 |

| | | | | | | | | | | | | | | | | |
|------------------------------|-------------------|-------|-------|-------|----|-----|-----|----|----|-----|-----|----|----|-----|----|----|
| Peak Hour | 5:30 PM - 6:30 PM | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 5 | 515 | 74 | 0 | 0 | 93 | 189 | 0 | 11 | 417 | 0 | 0 |
| Peak Hour Total | ##### | ##### | ##### | ##### | 1% | 87% | 12% | 0% | 0% | 33% | 67% | 0% | 3% | 97% | 0% | 0% |
| Peak Hour Turn Percent | | | | | | | | | | | | | | | | |
| Peak Hour Approach Total | | 0 | | | | 594 | | | | 282 | | | | 428 | | |
| Peak Hour Intersection Total | 1304 | | | | | | | | | | | | | | | |
| Peak HourFactor | 0.98 | | | | | | | | | | | | | | | |
| HV Percent | 3% | | | | | | | | | | | | | | | |

| | | | | |
|--------------------|--------------------------------|-------------|--|--|
| Location | 183A SBFR and Scottsdale Drive | | | |
| | Cedar Park, Texas | | | |
| North-South street | 183A NBFR | Speed Limit | | |
| East-West street | Scottsdale Drive | Speed Limit | | |
| Time period | 3:00 pm - 8:00 pm | | | |
| Counted By | | | | |
| Date | December 12, 2013 | | | |



Auto- Heavy Vehicle Counts

| Start Time | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | |
|------------|------------|------|-------|------|------------|------|-------|------|-----------|------|-------|------|-----------|------|-------|------|
| | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR |
| 3:00 PM | 42 | 110 | 2 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 1 | 5 | 0 |
| 3:15 PM | 51 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 1 | 0 | 0 | 0 | 5 | 6 | 0 |
| 3:30 PM | 50 | 103 | 2 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| 3:45 PM | 53 | 106 | 4 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 2 | 7 | 0 |
| Total | 196 | 424 | 8 | 0 | 0 | 0 | 0 | 0 | 62 | 1 | 0 | 0 | 0 | 8 | 23 | 0 |
| | | | | | | | | | | | | | | | | |
| 4:00 PM | 53 | 103 | 2 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 3 | 3 | 0 |
| 4:15 PM | 74 | 103 | 3 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 5 | 2 | 0 |
| 4:30 PM | 88 | 125 | 4 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 2 | 3 | 0 |
| 4:45 PM | 89 | 153 | 3 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| Total | 304 | 484 | 12 | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 12 | 10 | 0 |
| | | | | | | | | | | | | | | | | |
| 5:00 PM | 88 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 1 | 0 | 0 | 0 | 3 | 3 | 0 |
| 5:15 PM | 87 | 175 | 2 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 2 | 4 | 0 |
| 5:30 PM | 107 | 179 | 2 | 0 | 0 | 0 | 0 | 0 | 17 | 2 | 0 | 0 | 0 | 1 | 4 | 0 |
| 5:45 PM | 104 | 182 | 1 | 0 | 0 | 0 | 0 | 0 | 28 | 3 | 0 | 0 | 0 | 2 | 5 | 0 |
| Total | 386 | 686 | 5 | 0 | 0 | 0 | 0 | 0 | 83 | 6 | 0 | 0 | 0 | 8 | 16 | 0 |
| | | | | | | | | | | | | | | | | |
| 6:00 PM | 105 | 153 | 1 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 3 | 3 | 0 |
| 6:15 PM | 101 | 163 | 4 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 5 | 1 | 0 |
| 6:30 PM | 74 | 168 | 2 | 0 | 0 | 0 | 0 | 0 | 23 | 3 | 0 | 0 | 0 | 3 | 1 | 0 |
| 6:45 PM | 79 | 125 | 1 | 0 | 0 | 0 | 0 | 0 | 18 | 2 | 0 | 0 | 0 | 5 | 3 | 0 |
| Total | 359 | 609 | 8 | 0 | 0 | 0 | 0 | 0 | 89 | 5 | 0 | 0 | 0 | 16 | 8 | 0 |
| | | | | | | | | | | | | | | | | |
| 7:00 PM | 76 | 110 | 3 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 6 | 1 | 0 |
| 7:15 PM | 66 | 100 | 3 | 0 | 0 | 0 | 0 | 0 | 16 | 2 | 0 | 0 | 0 | 2 | 1 | 0 |
| 7:30 PM | 63 | 103 | 2 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 7:45 PM | 61 | 102 | 1 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| Total | 266 | 415 | 9 | 0 | 0 | 0 | 0 | 0 | 61 | 2 | 0 | 0 | 0 | 11 | 4 | 0 |

| | | | | | | | | | | | | | | | | |
|------------------------------|-------------------|------|----|----|-------|-------|---------|---------|-----|----|----|----|----|-----|-----|----|
| Peak Hour | 5:30 PM - 6:30 PM | | | | | | | | | | | | | | | |
| | 417 | 677 | 8 | 0 | 0 | 0 | 0 | 0 | 93 | 5 | 0 | 0 | 0 | 11 | 13 | 0 |
| Peak Hour Total | 38% | 61% | 1% | 0% | ##### | ##### | #DIV/0! | #DIV/0! | 95% | 5% | 0% | 0% | 0% | 46% | 54% | 0% |
| Peak Hour Turn Percent | | | | | | | | | | | | | | | | |
| Peak Hour Approach Total | | 1102 | | | | 0 | | | | 98 | | | | 24 | | |
| Peak Hour Intersection Total | | 1224 | | | | | | | | | | | | | | |
| Peak Hour Factor | | 0.94 | | | | | | | | | | | | | | |
| HV Percent | | 2% | | | | | | | | | | | | | | |

| | | | | |
|--------------------|--------------------------------|-------------|--|--|
| Location | 183A SBFR and Scottsdale Drive | | | |
| | Cedar Park, Texas | | | |
| North-South street | 183A SBFR | Speed Limit | | |
| East-West street | Scottsdale Drive | Speed Limit | | |
| Time period | 3:00 pm - 8:00 pm | | | |
| Counted By | | | | |
| Date | December 13, 2013 | | | |



Auto- Heavy Vehicle Counts

| Start Time | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | |
|------------|------------|------|-------|------|------------|------|-------|------|-----------|------|-------|------|-----------|------|-------|------|
| | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 55 | 10 | 0 | 0 | 21 | 21 | 0 | 1 | 30 | 0 | 0 |
| 3:15 PM | 0 | 0 | 0 | 0 | 0 | 69 | 10 | 0 | 0 | 28 | 22 | 0 | 1 | 54 | 0 | 0 |
| 3:30 PM | 0 | 0 | 0 | 0 | 0 | 99 | 19 | 0 | 0 | 29 | 32 | 0 | 1 | 46 | 0 | 0 |
| 3:45 PM | 0 | 0 | 0 | 0 | 0 | 107 | 43 | 0 | 0 | 20 | 44 | 0 | 4 | 59 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 330 | 82 | 0 | 0 | 98 | 119 | 0 | 7 | 189 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 120 | 37 | 0 | 0 | 8 | 38 | 0 | 0 | 90 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 112 | 30 | 0 | 0 | 11 | 50 | 0 | 1 | 81 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 124 | 20 | 0 | 0 | 15 | 43 | 0 | 2 | 71 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 97 | 24 | 0 | 0 | 9 | 52 | 0 | 0 | 76 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 453 | 111 | 0 | 0 | 43 | 183 | 0 | 3 | 318 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 100 | 17 | 0 | 0 | 8 | 68 | 0 | 1 | 102 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 91 | 21 | 0 | 0 | 17 | 53 | 0 | 0 | 95 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 115 | 17 | 0 | 0 | 17 | 75 | 0 | 0 | 89 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 77 | 19 | 0 | 0 | 12 | 58 | 0 | 0 | 74 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 383 | 74 | 0 | 0 | 54 | 254 | 0 | 1 | 360 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 90 | 19 | 0 | 0 | 21 | 53 | 0 | 2 | 86 | 0 | 0 |
| 6:15 PM | 0 | 0 | 0 | 0 | 0 | 106 | 14 | 0 | 0 | 18 | 54 | 0 | 0 | 70 | 0 | 0 |
| 6:30 PM | 0 | 0 | 0 | 0 | 0 | 88 | 11 | 0 | 0 | 9 | 62 | 0 | 3 | 62 | 0 | 0 |
| 6:45 PM | 0 | 0 | 0 | 0 | 0 | 77 | 16 | 0 | 0 | 11 | 53 | 0 | 0 | 42 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 361 | 60 | 0 | 0 | 59 | 222 | 0 | 5 | 260 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 83 | 14 | 0 | 0 | 11 | 45 | 0 | 2 | 63 | 0 | 0 |
| 7:15 PM | 0 | 0 | 0 | 0 | 0 | 57 | 10 | 0 | 0 | 4 | 32 | 0 | 3 | 50 | 0 | 0 |
| 7:30 PM | 0 | 0 | 0 | 0 | 0 | 65 | 11 | 0 | 0 | 5 | 28 | 0 | 5 | 48 | 0 | 0 |
| 7:45 PM | 0 | 0 | 0 | 0 | 0 | 60 | 12 | 0 | 0 | 3 | 40 | 0 | 5 | 51 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 265 | 47 | 0 | 0 | 23 | 145 | 0 | 15 | 212 | 0 | 0 |

| | | | | | | | | | | | | | | | | |
|------------------------------|-------------------|-------|-------|-------|-------|-----|-----|-----|----|-----|-----|----|----|------|----|----|
| Peak Hour | 4:45 PM - 5:45 PM | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 403 | 79 | 0 | 0 | 51 | 248 | 0 | 1 | 362 | 0 | 0 |
| Peak Hour Total | ##### | ##### | ##### | ##### | ##### | 0% | 84% | 16% | 0% | 17% | 83% | 0% | 0% | 100% | 0% | 0% |
| Peak Hour Turn Percent | | | | | | | | | | | | | | | | |
| Peak Hour Approach Total | | 0 | | | | 482 | | | | 299 | | | | 363 | | |
| Peak Hour Intersection Total | 1144 | | | | | | | | | | | | | | | |
| Peak HourFactor | 0.91 | | | | | | | | | | | | | | | |
| HV Percent | 0% | | | | | | | | | | | | | | | |

| | | | | |
|--------------------|--------------------------------|-------------|--|--|
| Location | 183A SBFR and Scottsdale Drive | | | |
| | Cedar Park, Texas | | | |
| North-South street | 183A NBFR | Speed Limit | | |
| East-West street | Scottsdale Drive | Speed Limit | | |
| Time period | 3:00 pm - 8:00 pm | | | |
| Counted By | | | | |
| Date | December 13, 2013 | | | |



Auto- Heavy Vehicle Counts

| Start Time | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | |
|------------|------------|------|-------|------|------------|------|-------|------|-----------|------|-------|------|-----------|------|-------|------|
| | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR | Left | Thru | Right | RTOR |
| 3:00 PM | 30 | 116 | 3 | 0 | 0 | 0 | 0 | 0 | 21 | 2 | 0 | 0 | 0 | 1 | 7 | 0 |
| 3:15 PM | 54 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 3 | 0 | 0 | 0 | 1 | 7 | 0 |
| 3:30 PM | 46 | 109 | 3 | 0 | 0 | 0 | 0 | 0 | 29 | 2 | 0 | 0 | 0 | 1 | 6 | 0 |
| 3:45 PM | 59 | 112 | 5 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 4 | 9 | 0 |
| Total | 189 | 448 | 11 | 0 | 0 | 0 | 0 | 0 | 98 | 7 | 0 | 0 | 0 | 7 | 29 | 0 |
| | | | | | | | | | | | | | | | | |
| 4:00 PM | 90 | 109 | 3 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 4:15 PM | 81 | 109 | 4 | 0 | 0 | 0 | 0 | 0 | 11 | 2 | 0 | 0 | 0 | 1 | 3 | 0 |
| 4:30 PM | 71 | 132 | 5 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 2 | 4 | 0 |
| 4:45 PM | 76 | 161 | 4 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Total | 318 | 511 | 16 | 0 | 0 | 0 | 0 | 0 | 43 | 2 | 0 | 0 | 0 | 3 | 14 | 0 |
| | | | | | | | | | | | | | | | | |
| 5:00 PM | 102 | 158 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 0 | 0 | 0 | 1 | 4 | 0 |
| 5:15 PM | 95 | 184 | 3 | 0 | 0 | 0 | 0 | 0 | 17 | 2 | 0 | 0 | 0 | 0 | 6 | 0 |
| 5:30 PM | 89 | 188 | 3 | 0 | 0 | 0 | 0 | 0 | 17 | 3 | 0 | 0 | 0 | 0 | 6 | 0 |
| 5:45 PM | 74 | 192 | 2 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| Total | 360 | 722 | 8 | 0 | 0 | 0 | 0 | 0 | 54 | 8 | 0 | 0 | 0 | 1 | 23 | 0 |
| | | | | | | | | | | | | | | | | |
| 6:00 PM | 86 | 161 | 2 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 2 | 5 | 0 |
| 6:15 PM | 70 | 172 | 5 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 6:30 PM | 62 | 177 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 0 | 0 | 0 | 3 | 2 | 0 |
| 6:45 PM | 42 | 132 | 2 | 0 | 0 | 0 | 0 | 0 | 11 | 3 | 0 | 0 | 0 | 0 | 5 | 0 |
| Total | 260 | 642 | 12 | 0 | 0 | 0 | 0 | 0 | 59 | 5 | 0 | 0 | 0 | 5 | 14 | 0 |
| | | | | | | | | | | | | | | | | |
| 7:00 PM | 63 | 116 | 4 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| 7:15 PM | 50 | 105 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 3 | 2 | 0 |
| 7:30 PM | 48 | 109 | 3 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| 7:45 PM | 51 | 108 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 5 | 4 | 0 |
| Total | 212 | 438 | 13 | 0 | 0 | 0 | 0 | 0 | 23 | 2 | 0 | 0 | 0 | 15 | 8 | 0 |

| | | | | | | | | | | | | | | | | |
|------------------------------|-------------------|-----|----|----|-------|-------|---------|---------|-----|----|----|----|----|----|-----|----|
| Peak Hour | 5:15 PM - 6:15 PM | | | | | | | | | | | | | | | |
| | 344 | 725 | 10 | 0 | 0 | 0 | 0 | 0 | 67 | 5 | 0 | 0 | 0 | 2 | 24 | 0 |
| Peak Hour Total | 32% | 67% | 1% | 0% | ##### | ##### | #DIV/0! | #DIV/0! | 93% | 7% | 0% | 0% | 0% | 8% | 92% | 0% |
| Peak Hour Turn Percent | | | | | 1079 | | | | | | | | | | 72 | |
| Peak Hour Approach Total | | | | | 1177 | | | | | | | | | | 26 | |
| Peak Hour Intersection Total | | | | | 0.96 | | | | | | | | | | | |
| Peak HourFactor | | | | | 1% | | | | | | | | | | | |
| HV Percent | | | | | | | | | | | | | | | | |

EXHIBIT 3

SIGNAL WARRANT WORKSHEETS



Form Revised 2/27/2012

Traffic Survey — Count Analysis

2011 TMUTCD Warrants

| | | | |
|---------|------------|-------------------|-----------------------|
| County: | Williamson | District: | Austin |
| City: | Cedar Park | Population: | |
| | | | Survey Date: 12-13-13 |
| Major | 183A | Name 183A SBFR | Control |
| Minor | | Scottsdale Drive | Section |
| | | | 85% Speed |
| | | | 60 MPH |

Eight Highest Hours: Include the same 8 hours for the Major and Minor St. volumes.

| Time Ends | Major St. - Both App. | | Minor St. - Hi. Vol. App. | |
|--------------|-----------------------|------------|---------------------------|------------|
| | Veh. Total | Ped. Total | Veh. Total | Ped. Total |
| 6:00 PM | 585 | | 386 | |
| 7:00 PM | 597 | | 359 | |
| 5:00 PM | 597 | | 304 | |
| 8:00 PM | 436 | | 266 | |
| 8:00 AM | 453 | | 126 | |
| 4:00 PM | 358 | | 196 | |
| 9:00 AM | 450 | | 101 | |
| 9:00 PM | 168 | | 254 | |

Comments:

Warrant 1. Eight Hour Vehicular Volume

| | | |
|------------------------------|--|--|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Meets 70% ^c (and major-street speed exceeds 40 mph or population less than 10,000) <i>or</i> 100% ^a (regardless of speed) of Condition A. <i>— or —</i> |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Meets 70% ^c (and major-street speed exceeds 40 mph or population less than 10,000) <i>or</i> 100% ^a (regardless of speed) of Condition B. <i>— or —</i> |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Meets 80% ^b of Conditions A and B. <i>— or —</i> |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Meets 56% ^d of Conditions A and B (and major-street speed exceeds 40 mph or population less than 10,000). |

Condition A - Minimum Vehicle Volume

| Number of Lanes | | Vehicles per hour on Major St (Total of Both Approaches) | | | | Vehicles per hour on higher-volume Minor St approach (One Direction Only) | | | |
|-----------------|-----------------|---|------------------|-------------------|------------------|--|-----|--------------------|--|
| | | Required | | Existing 40.0% | | Required | | Existing 181.4% | |
| Major Street | Minor Street | 100% ^a | 80% ^b | 70% ^c | 56% ^d | 100% ^a | | | |
| | 1 | 500 | 400 | 350 | 280 | 150 | 120 | 105 | |
| 2 or more | 1 | 600 | 480 | 420 | 336 | 150 | 120 | 105 | |
| | | 600 | 480 | 420 | 336 | 200 | 160 | 140 | |
| 2 or more | 2 or more | 500 | 400 | 350 | 280 | 200 | 160 | 140 | |
| | 2 or more | 750 | 600 | 525 | 420 | 100 | 80 | 70 | |

Condition B - Interruption of Continuous Traffic

| Number of Lanes | | Vehicles per hour on Major St (Total of Both Approaches) | | | | Vehicles per hour on higher-volume Minor St approach (One Direction Only) | | | |
|-----------------|-----------------|---|------------------|-------------------|------------------|--|-----|--------------------|--|
| | | Required | | Existing 26.7% | | Required | | Existing 362.9% | |
| Major Street | Minor Street | 100% ^a | 80% ^b | 70% ^c | 56% ^d | 100% ^a | | | |
| | 1 | 750 | 600 | 525 | 420 | 75 | 60 | 53 | |
| 2 or more | 1 | 900 | 720 | 630 | 504 | 75 | 60 | 53 | |
| | | 900 | 720 | 630 | 504 | 168 | 100 | 80 | |
| 2 or more | 2 or more | 750 | 600 | 525 | 420 | 100 | 80 | 70 | |
| | 2 or more | 750 | 600 | 525 | 420 | 100 | 80 | 70 | |

^aBasic minimum hourly volume.^bUsed for combination of Conditions A and B after adequate trial of other remedial measures.^cMay be used when the major-street speed exceeds 40 mph or in a community with a population of less than 10,000.^dMay be used for combination of Conditions A and B after adequate trial of other remedial measures when major street exceeds 40 mph or in an isolated community with a population of less than 10,000.

Warrant 2. Four Hour Volumes (70% Factor)

Yes

No

Meets each of 4 Highest Hours (Warrant 2 — see Figure 1).

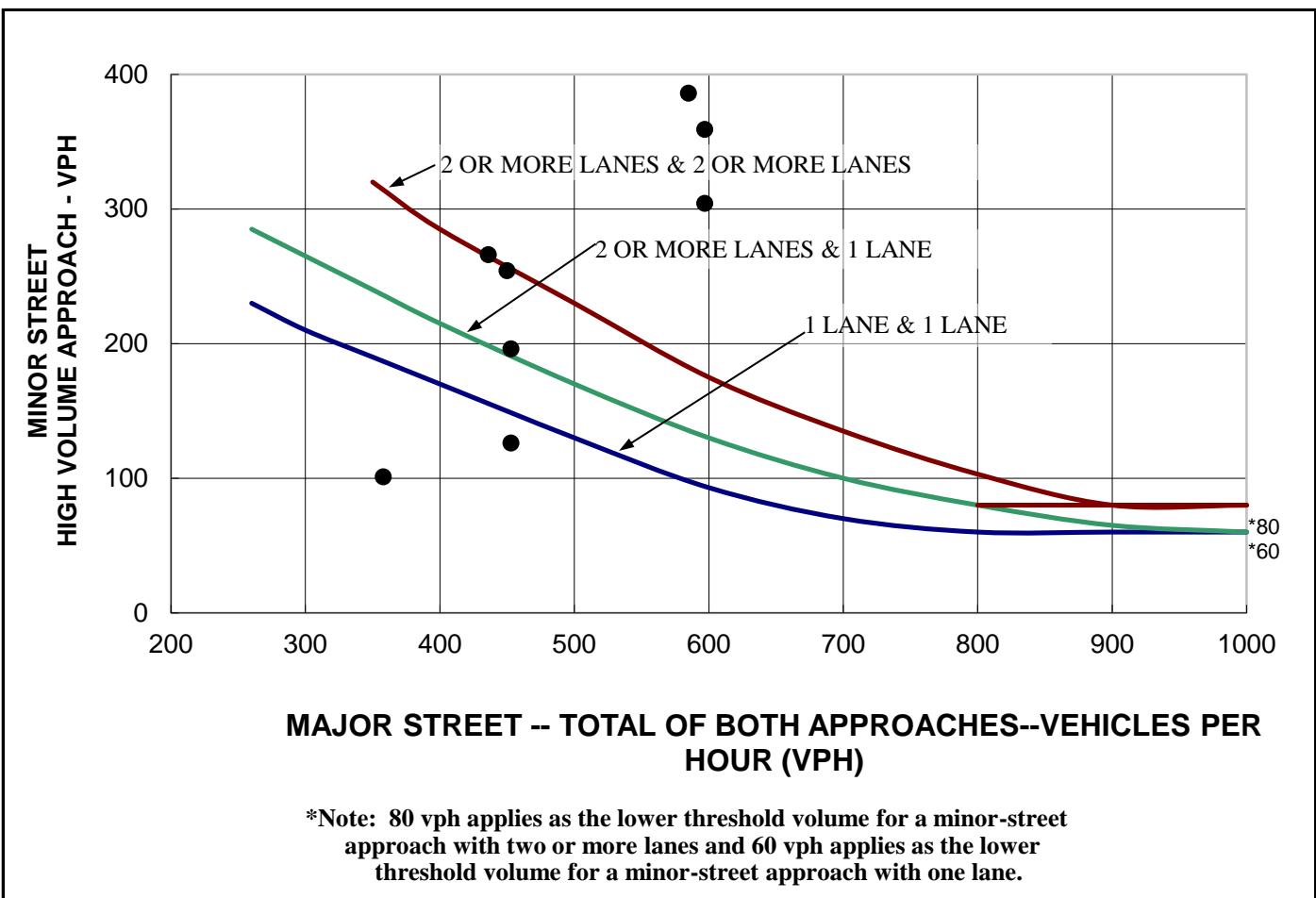


Figure 1. Four-hour volume warrant (community less than 10,000 population or above 40 MPH on major street).
(Warrant 2.)

Warrant 3. Peak Hour (70% Factor)

| | |
|---|--|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <p>Are all of the following conditions true for any four consecutive 15 minute periods?</p> <ol style="list-style-type: none"> 1. The total stopped time delay experienced by the traffic on one minor street approach (one direction only) controlled by a stop sign equals or exceeds 4 vehicle-hours for a one-lane approach and 5 vehicle-hours for a two-lane approach, <i>and</i> 2. The volume of the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes, <i>and</i> 3. The total entering volume serviced during the hour equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four (or more) approaches. <p><i>— or —</i></p> |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <p>Meets one High Hour (Warrant 3 — see Figure 2).</p> |

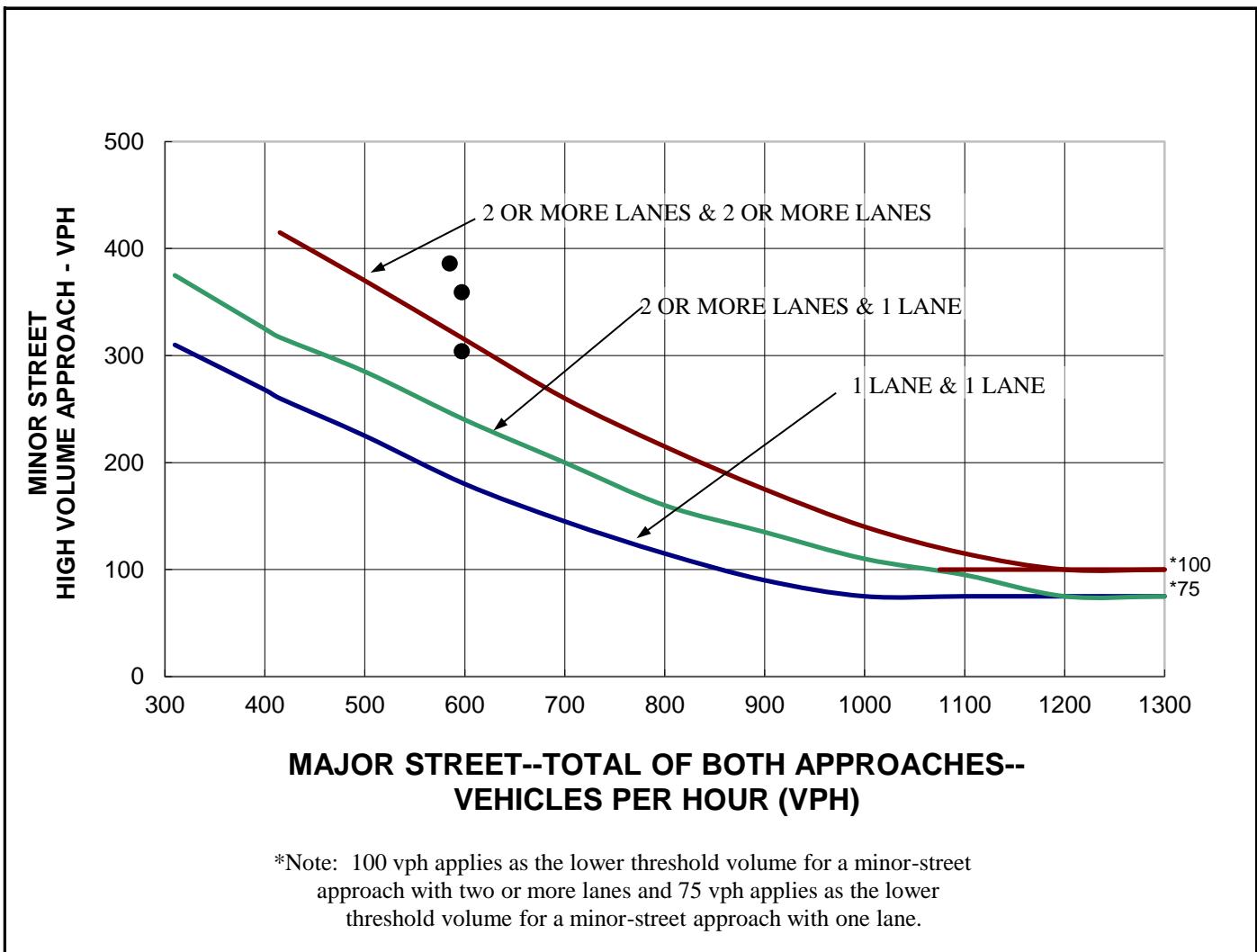


Figure 2. Peak hour volume warrant (community less than 10,000 population or above 40 MPH on major street). (Warrant 3.)

Warrant 4. Four Hour Pedestrian Volumes (70% Factor)

Yes No Meets each of 4 Highest Hours (Warrant4 — see Figure 3).

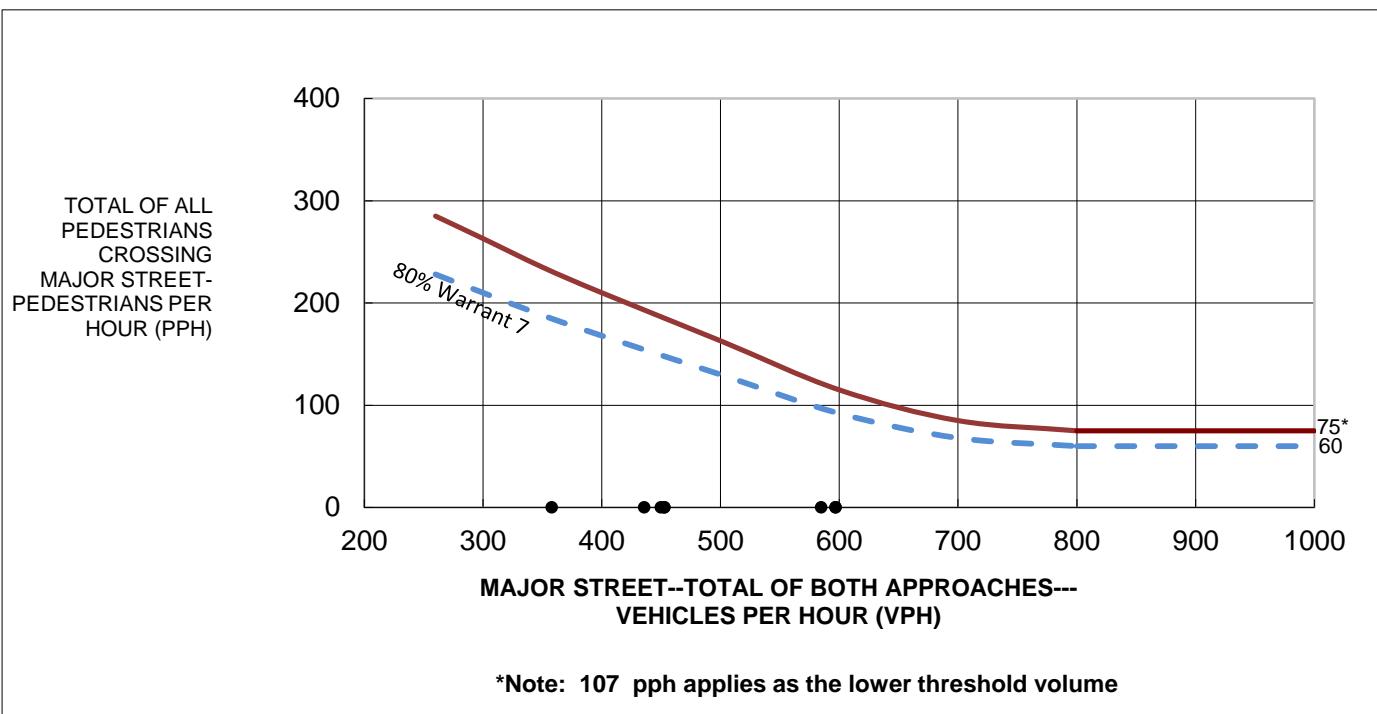


Figure 3. Four-hour pedestrian warrant (community less than 10,000 population or above 35 MPH on major street). (Warrant 4.)

Warrant 4. Peak Hour Pedestrian Volumes (70% Factor)

Yes No Meets Peak Hour Pedestrian (Warrant4 — see Figure 4).

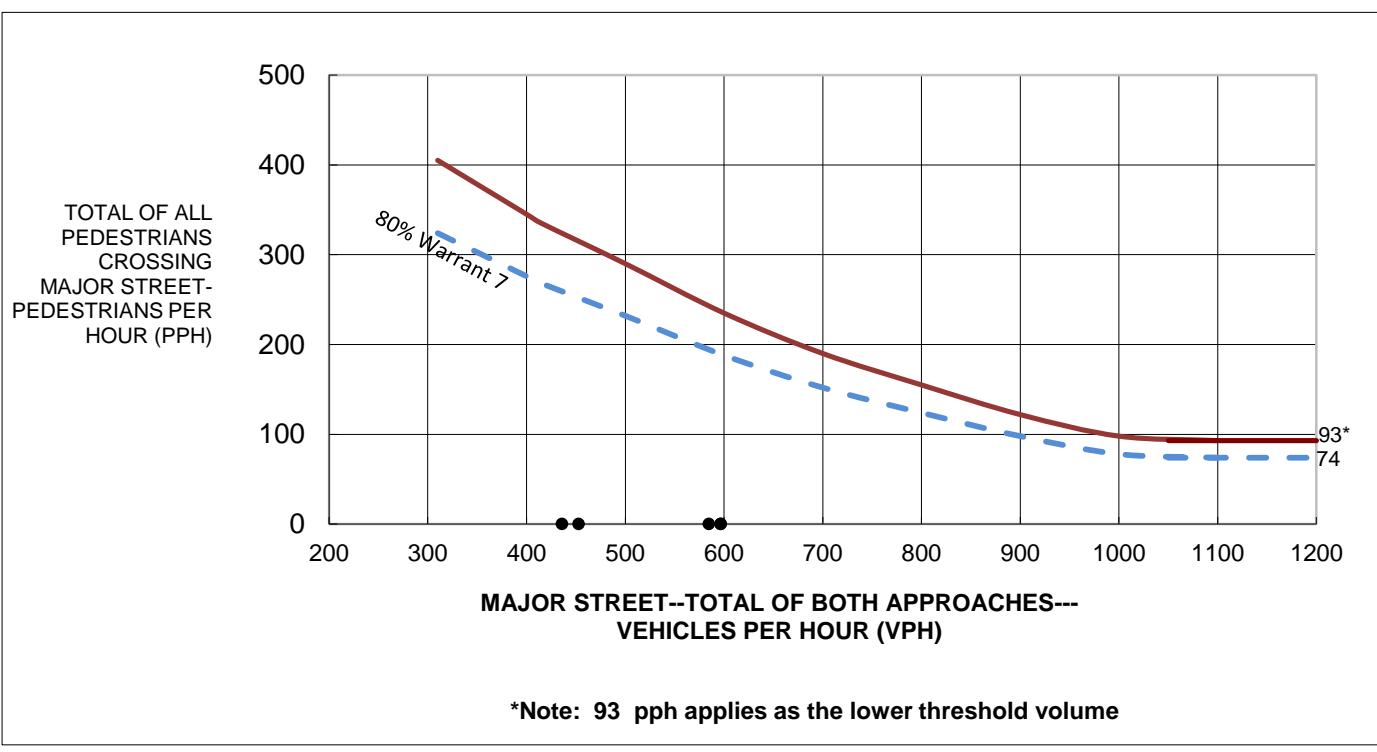


Figure 4. Peak hour pedestrian warrant (community less than 10,000 population or above 35 MPH on major street). (Warrant 4.)

Warrant 5. School Crossing

| | | | |
|------------------------------|-------------------------------------|----|--|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | No | Is the number of adequate gaps in traffic stream during the period when the children are using the crossing less than the number of minutes in the same period? N/A — and — |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | No | Is there a minimum of 20 students during the highest crossing hour? — and — |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | No | Is the nearest signal located more than 300 feet away? (This warrant may be applied, if the proposed signal is less than 300 feet and does not restrict the progressive movement of traffic.) |

Warrant 6. Coordinated Signal System

| | | | |
|------------------------------|-------------------------------------|----|---|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | No | On a one-way street or a street with traffic predominantly in one direction, are the adjacent signals far enough apart that the necessary degree of vehicle platooning does not occur? N/A — or — |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | No | On a two-way street, are the adjacent signals far enough apart that the necessary degree of vehicle platooning does not occur and would the proposed and adjacent traffic control signal provide a progressive operation? |

Warrant 7. Crash Experience

| | | | |
|---|-------------------------------------|----|---|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | No | Is one of the following conditions met?: <ul style="list-style-type: none">◆ 80% of Condition A or Condition B in Warrant 1◆ 56% of Condition A or B in Warrant 1 (major-street speed exceeding 40 mph or population less than 10,000)◆ 80 % or more of Warrant 4 met? N/A — and — |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> | No | Have there been 5 or more reportable crashes susceptible to correction by a traffic signal within a 12 month period? |

Warrant 8. Roadway Network

| | | | |
|------------------------------|-------------------------------------|----|---|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | No | Is the total existing, or immediately projected, entering volume on all approaches greater than 1000 vehicles for each of any 5 hours of a Saturday and/or Sunday. — or — |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | No | Is the total existing, or immediately projected, entering volume greater than 1000 vehicles for the peak hour of a typical weekday, and do the 5 year projected traffic volumes meet one or more of Warrants 1, 2, and 3 during an average weekday? |

Check applicable characteristics of each route:

| Major Street | Minor Street | |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | It is part of street or highway system that serves as the principal roadway network for through traffic flow. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | It includes rural or suburban highways outside, entering, or traversing a city. |
| <input type="checkbox"/> | <input type="checkbox"/> | It appears as a major route on an official plan such as a major street plan in an urban area traffic and transportation study. |

Remarks:

Warrant 9. Intersection Near a Grade Crossing (Two or More Approach Lanes at the Track Crossing)

Yes No Meets one High Hour (Warrant 9 — see Figure 5).

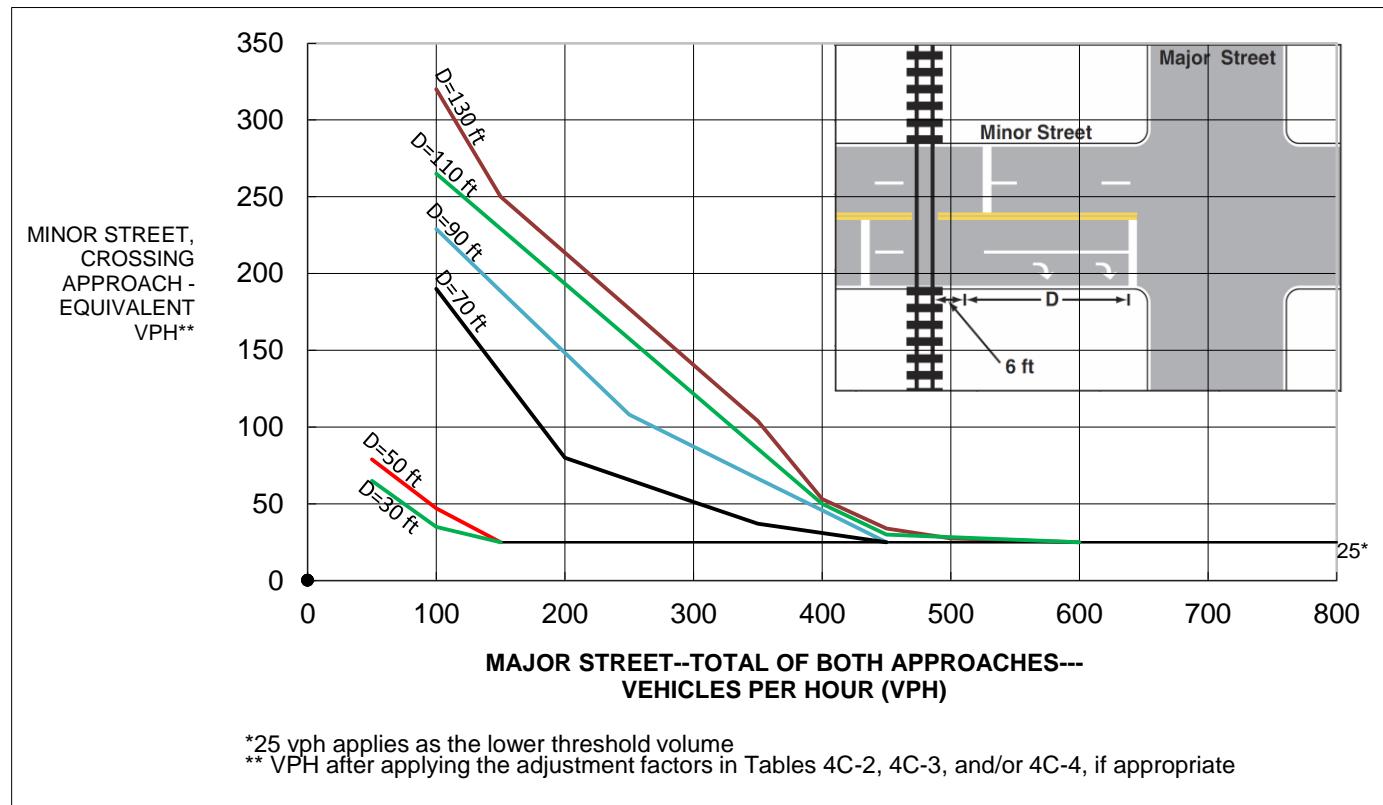


Figure 5. Railroad Grade Crossing (Two or More Approach Lanes at the Track Crossing).
(Warrant 9.)