

**DOCUMENT ADDENDUM  
PROJECT TRAFFIC AND INTERSECTION ANALYSIS  
TECHNICAL MEMORANDUM**

**S. R. 39  
FROM I-4 TO U.S. 301  
HILLSBOROUGH AND PASCO COUNTIES, FLORIDA**

**Work Program Item Segment Nos: 255099 1 & 256289 1  
Federal Aid Project No: F-321-1(4)**

**This proposed project involves multi-lane improvements to S.R. 39 and the proposed extension of the Alexander Street Bypass from I-4 in Hillsborough County to U.S. 301 in Pasco County, a distance of approximately 21.2 km (13.2 mi)**

Prepared for:

**Florida Department of Transportation  
District Seven  
11201 North McKinley Drive  
Tampa, Florida 33612**

April 2001

The attached Project Traffic and Intersection Analysis Technical Memorandum was completed in November 1999. This addendum provides updated project information that was not available in the previous Project Traffic and Intersection Analysis Technical Memorandum that was available for public review prior to and at the Public Hearing that was held on April 20, 2000. This addendum improves consistency between the Project Traffic and Intersection Analysis Technical Memorandum and the Environmental Assessment/Finding of No Significant Impact (EA/FONSI) that was approved by the (FHWA) on November 14, 2000.

## **INTRODUCTION**

Through the PD&E Study process, the FDOT evaluated the expansion of S.R. 39 to a four-lane facility from the vicinity of Joe McIntosh Road in Hillsborough County to the vicinity of U.S. 301 in Pasco County (Addendum Figure 1). In addition, the FDOT evaluated the extension of Alexander Street Bypass as a four-lane facility from Interstate 4 (I-4) northward to S.R. 39 in the vicinity of Joe McIntosh Road.

The S.R. 39 corridor is functionally classified as a north/south minor arterial facility between I-4 and U.S. 301. S.R. 39 is part of the Federal-Aid Primary and State Highway System and is classified as an emergency evacuation route. The project limits extend from I-4 in Plant City and Hillsborough County to U.S. 301 in Pasco County, a distance of 21.2 kilometers (km) [13.2 miles (mi)].

The existing S.R. 39 within the project limits contains a two-lane undivided typical section with 3.658 meter (m) [12 foot (ft)] wide travel lanes, 1.219 m (4 ft) paved shoulders, and open roadside ditches on both sides of the roadway. The existing right-of-way (ROW) varies from 18.288 m (60 ft) to 45.720 m (150 ft).

S.R. 39 is currently a two-lane undivided roadway with drainage ditches adjacent to the existing roadway. A CSX Transportation railroad line parallels the existing roadway on

the east side of S.R. 39 for approximately 17.7 km (11.0 mi) from the existing S.R. 39 and I-4 intersection to a point just north of Crystal Springs in Pasco County.

## **PROPOSED IMPROVEMENTS**

The FHWA approved project involves multi-lane improvements to S.R. 39 and the planned extension of the Alexander Street Bypass from I-4 in Hillsborough County to U.S. 301 in Pasco County, a distance of approximately 21.2 km (13.2 mi). The Alexander Street Bypass portion from I-4 to the vicinity of Joe McIntosh Road is approximately 4.02 km (2.5 mi). This new alignment alternative is located to the west of S.R. 39 between I-4 and Joe McIntosh Road due to significant land use constraints on S.R. 39, including the Memorial Park Cemetery in the vicinity of I-4. Overall, improvements will consist of a four-lane divided roadway on new alignment (the Alexander Street Bypass) and improvement to S.R. 39 north of the merge point with the Alexander Street Bypass northward. The existing S.R. 39 north of the merge point will be improved from a two-lane undivided roadway to a four-lane divided facility.

## **DOCUMENT SPECIFIC UPDATES**

This update to the Project Traffic and Intersection Analysis Technical Memorandum includes the following:

- Project Location Map has been updated (Addendum Figure 1).
- This project is currently described in the EA/FONSI as multi-lane improvements to S.R. 39 and the proposed extension of the Alexander Street Bypass from I-4 in Hillsborough County to U.S. 301 in Pasco County.

**PROJECT TRAFFIC AND INTERSECTION ANALYSIS  
TECHNICAL MEMORANDUM**

**S. R. 39  
FROM I-4 TO U.S. 301  
HILLSBOROUGH AND PASCO COUNTIES, FLORIDA**

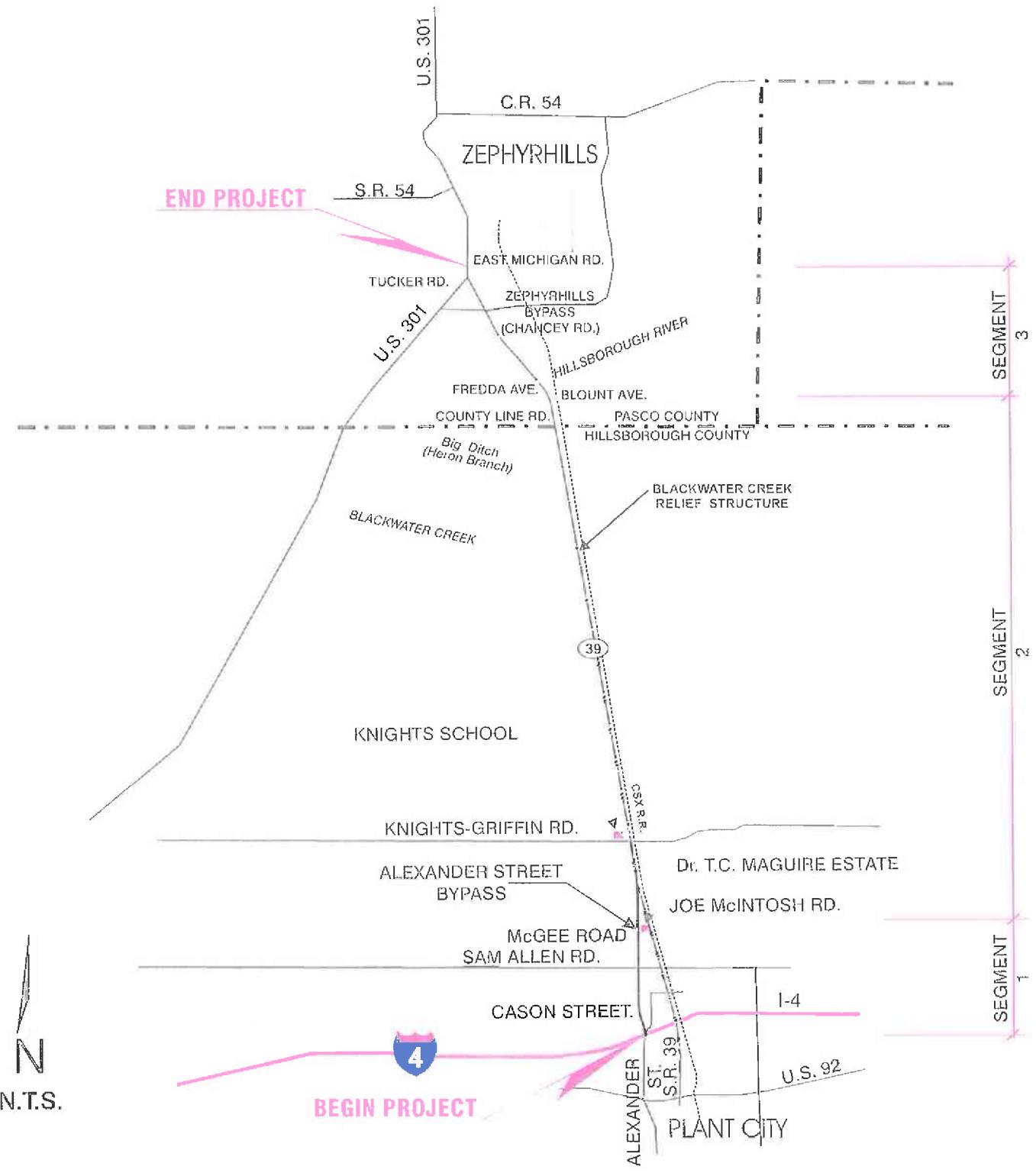
**Work Program Item Segment Nos: 255099 1 & 256289 1  
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Prepared for:

**Florida Department of Transportation  
District Seven  
11201 North McKinley Drive  
Tampa, Florida 33612**

**November 3, 1999**



CERTIFICATION

PROJECT TRAFFIC VOLUMES

W.P.I. Number: 7113335

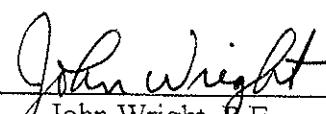
State Project Number: 10200-1508

Description: This project involves the multi-laning of State Road 39 from north of I-4 to U.S. 301 in Hillsborough and Pasco Counties, Florida

"I have followed the Project Traffic Forecasting Procedures, adopted by the Florida Department of Transportation, and have arrived at the project traffic volumes. I have found these to be consistent with this historical traffic data and other available information."

11/3/99

Date

  
John Wright  
John Wright, P.E.  
Senior Traffic Engineer  
Parsons Brinckerhoff Quade & Douglas, Inc.

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| C.              | Crash Experience Summary  |
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## **INTRODUCTION**

The purpose of this technical memorandum is to present a traffic analysis for SR 39 from I-4 to US 301, a length of approximately 13.5 miles, and for the proposed Alexander Street Extension from I-4 to SR 39 in the vicinity of Sam Allen Road, a length of approximately 1.5 miles. The project begins at I-4 on the north side of Plant City, in Hillsborough County, and ends at US 301 on the south side of Zephyrhills, in Pasco County. The project location is illustrated on Figure 1.

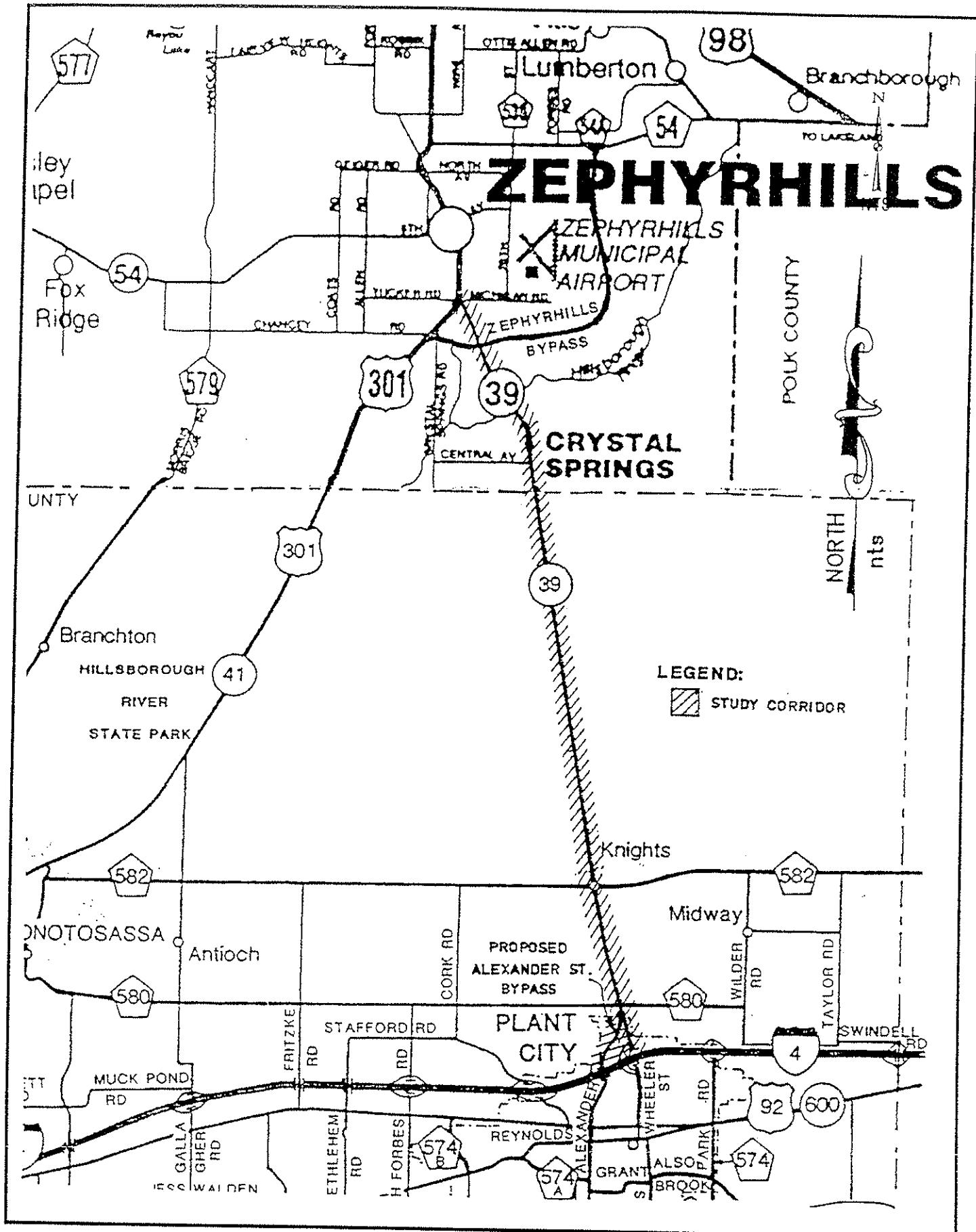
SR 39 is a north-south arterial roadway that extends as a state road from SR 60 on the south end to US 301 in Pasco County on the north end.

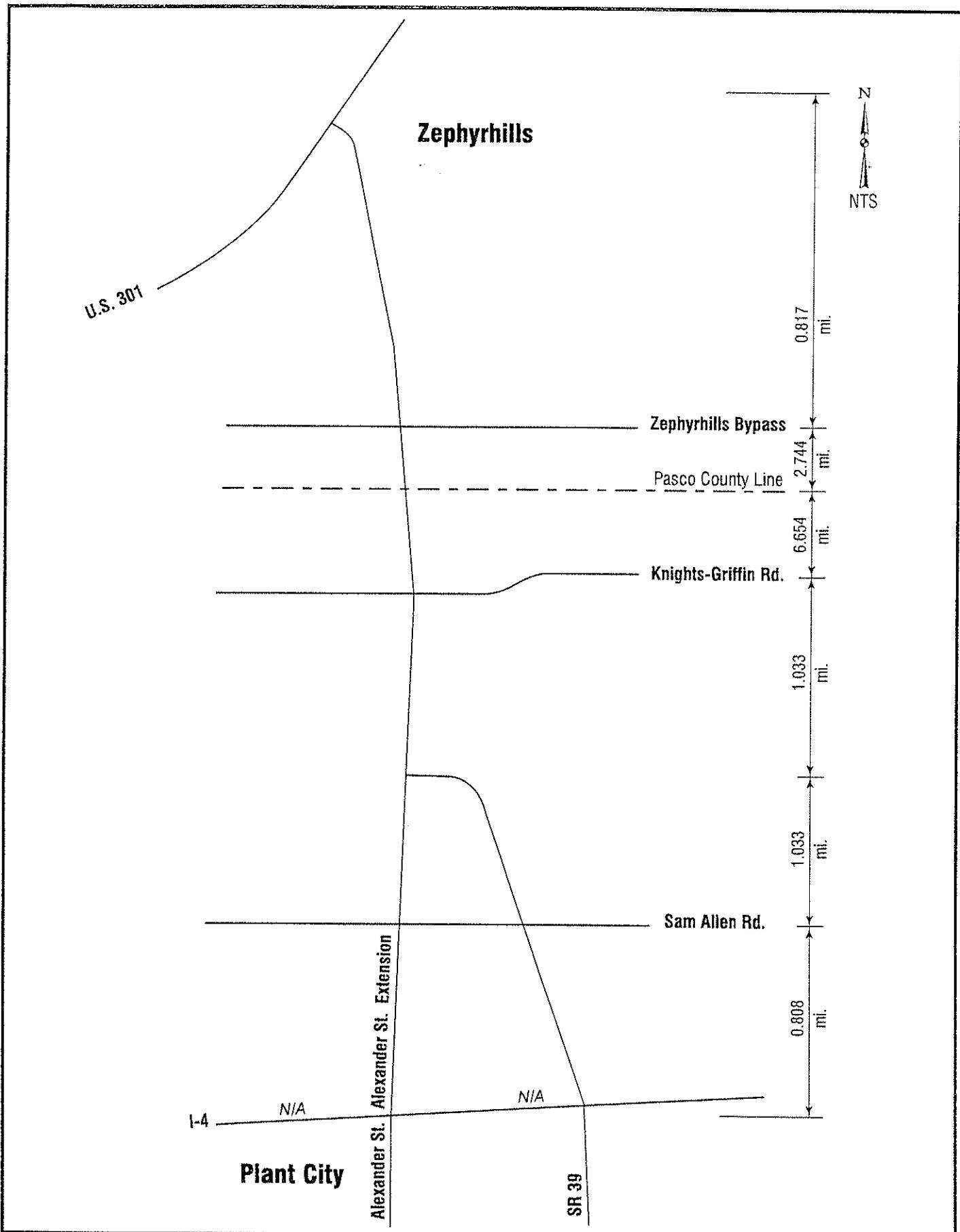
The purpose of this memorandum is two-fold: 1) to document the existing conditions along SR 39, including existing traffic characteristics, traffic demand, and levels of service (LOS); and 2) to provide estimated year 2010 and 2020 conditions, including traffic demand, geometric requirements, and LOS.

## **STUDY AREA**

The project limits for this study begin on the north side of I-4 at the northern limits of the current I-4 reconstruction project. This project does not include the interchanges of I-4 with SR 39 or with Alexander Street. The project ends at US 301 and includes the intersection of SR 39/US 301.

A review of the SR 39 corridor from north of I-4 in Plant City to US 301 in Zephyrhills concluded that only four intersecting roadways currently serve as thoroughfares. These roadways are Sam Allen Road, Knights-Griffin Road, Zephyrhills Bypass and US 301/Michigan Avenue. Therefore, only the intersections of these roadways with SR 39 were selected for detailed intersection

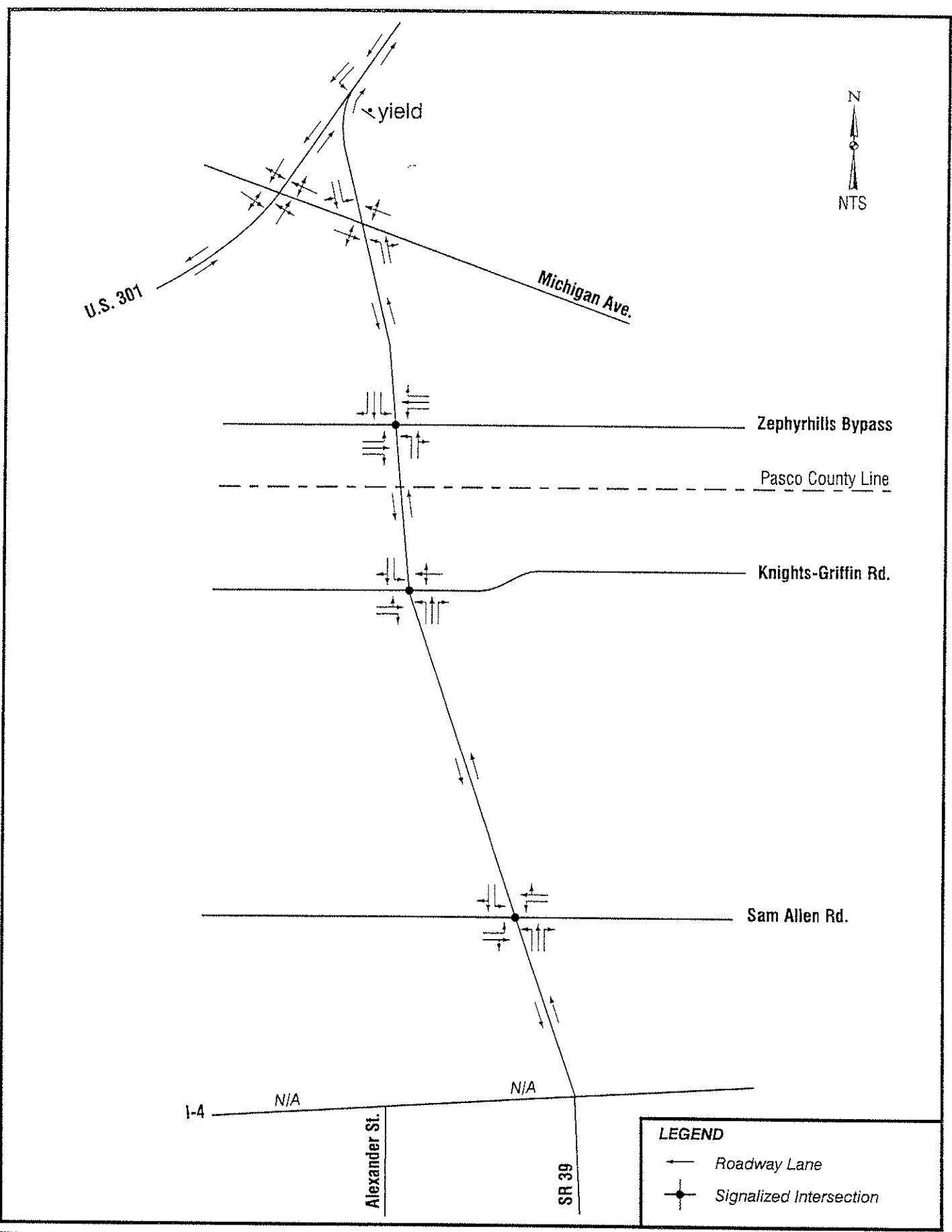




**STUDY AREA**

**State Road 39 PD&E Study  
Project Traffic and Intersection  
Analysis Technical Memorandum**

**FIGURE  
2**



**NO BUILD ALTERNATIVE  
ROADWAY NETWORK**

**State Road 39 PD&E Study  
Project Traffic and Intersection  
Analysis Technical Memorandum**

**FIGURE  
3**

## **1998 AADT Volumes**

1998 AADT volumes on SR 39 and the intersecting major roadways were developed by straight line interpolation between the 1996 AADT volumes and projected year 2005 AADT volumes for the same roadway links. The 1998 estimated AADT volume on SR 39 between I-4 and Sam Allen Road was adjusted downward to reflect a decline in traffic volumes on this segment of SR 39 in 1997, probably due to the ongoing construction at the SR 39/I-4 interchange. The 1997 AADT volume data used to make these adjustments are contained in the study report titled, "Interchange Operational Analysis Report, Interstate 4 Corridor, Thonotosassa Road (SR 566) to Park Road (SR 553), February 18, 1999." The 1996 and projected 2005 AADT volumes used to estimate the 1998 AADT volumes are contained in Appendix A. The estimated 1998 AADT volumes developed by this procedure are illustrated on Figure 4.<sup>1</sup>

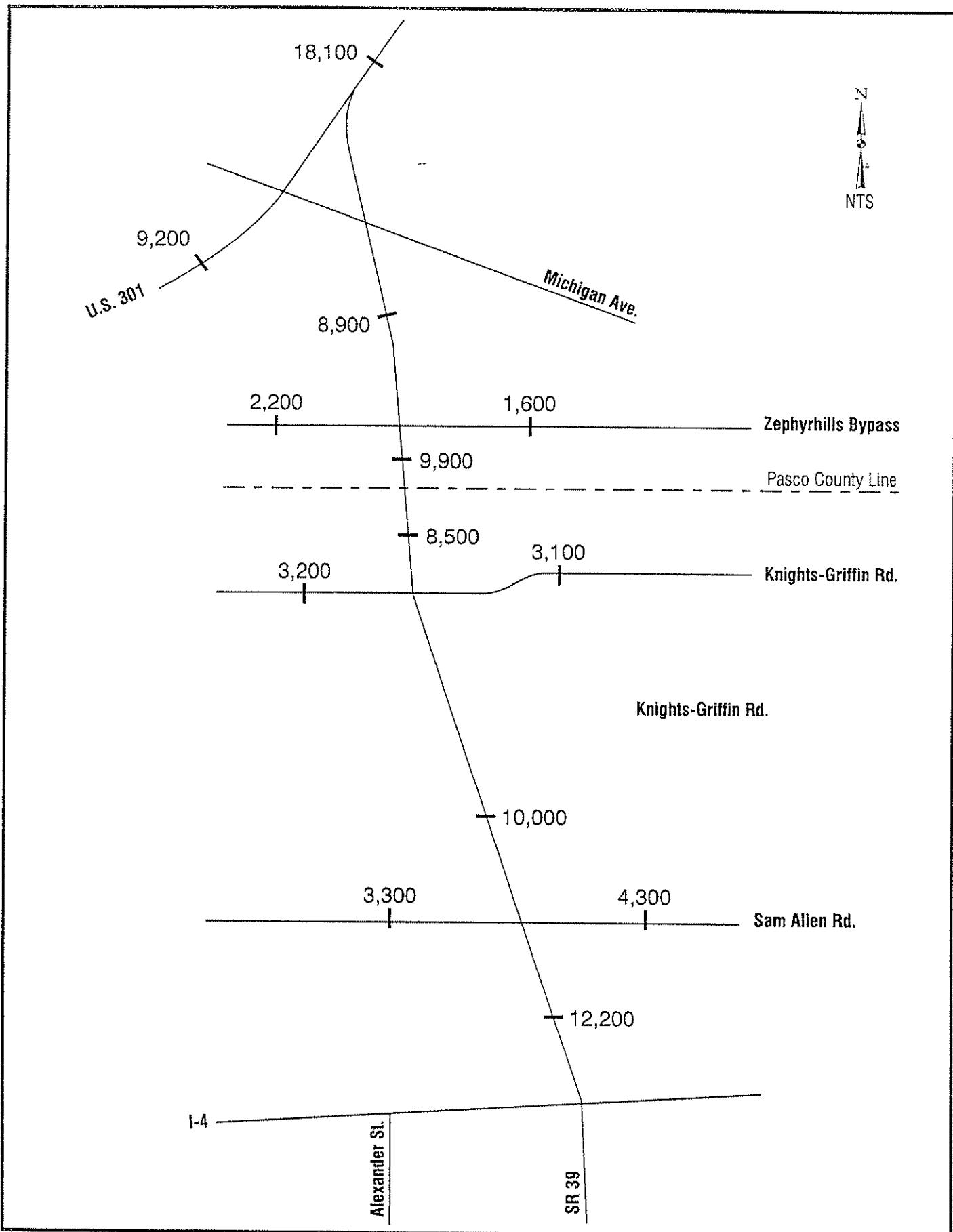
## **Peak Hour Traffic Volumes**

Vehicle turning movement counts were conducted between the hours of 6:00AM to 9:00AM, 11:00AM to 1:00PM and 3:00PM to 6:00PM on September 21 and 22, 1998 at the following four intersections:

1. SR 39/Sam Allen Road
2. SR 39/Knights-Griffin Road
3. SR 39/Zephyrhills Bypass
4. SR 39/US 301/Michigan Avenue

The summary sheets for these counts are contained in Appendix B.

The intersection turning movement count data was analyzed to identify the peak traffic volume hours. The analysis determined that the peak traffic hours occurred between 6:00AM and 8:00AM, and between 4:00PM and 6:00PM, the traditional AM and PM peak traffic periods.



1998 AADT VOLUMES

State Road 39 PD&E Study  
Project Traffic and Intersection  
Analysis Technical Memorandum

FIGURE  
4

The peak hours for the four study intersections are as follows:

| <u>Intersection</u>           | <u>AM Peak Hour</u> | <u>PM Peak Hour</u> |
|-------------------------------|---------------------|---------------------|
| 1. SR 39/Sam Allen Road       | 7:00AM-8:00AM       | 5:00PM-6:00PM       |
| 2. SR 39/Knights-Griffin Road | 7:00AM-8:00AM       | 5:00PM-6:00PM       |
| 3. SR 39/Zephyrhills Bypass   | 6:00AM-7:00AM       | 4:00PM-5:00PM       |
| 4. SR 39/US 301               | 7:00AM-8:00AM       | 5:00PM-6:00PM       |

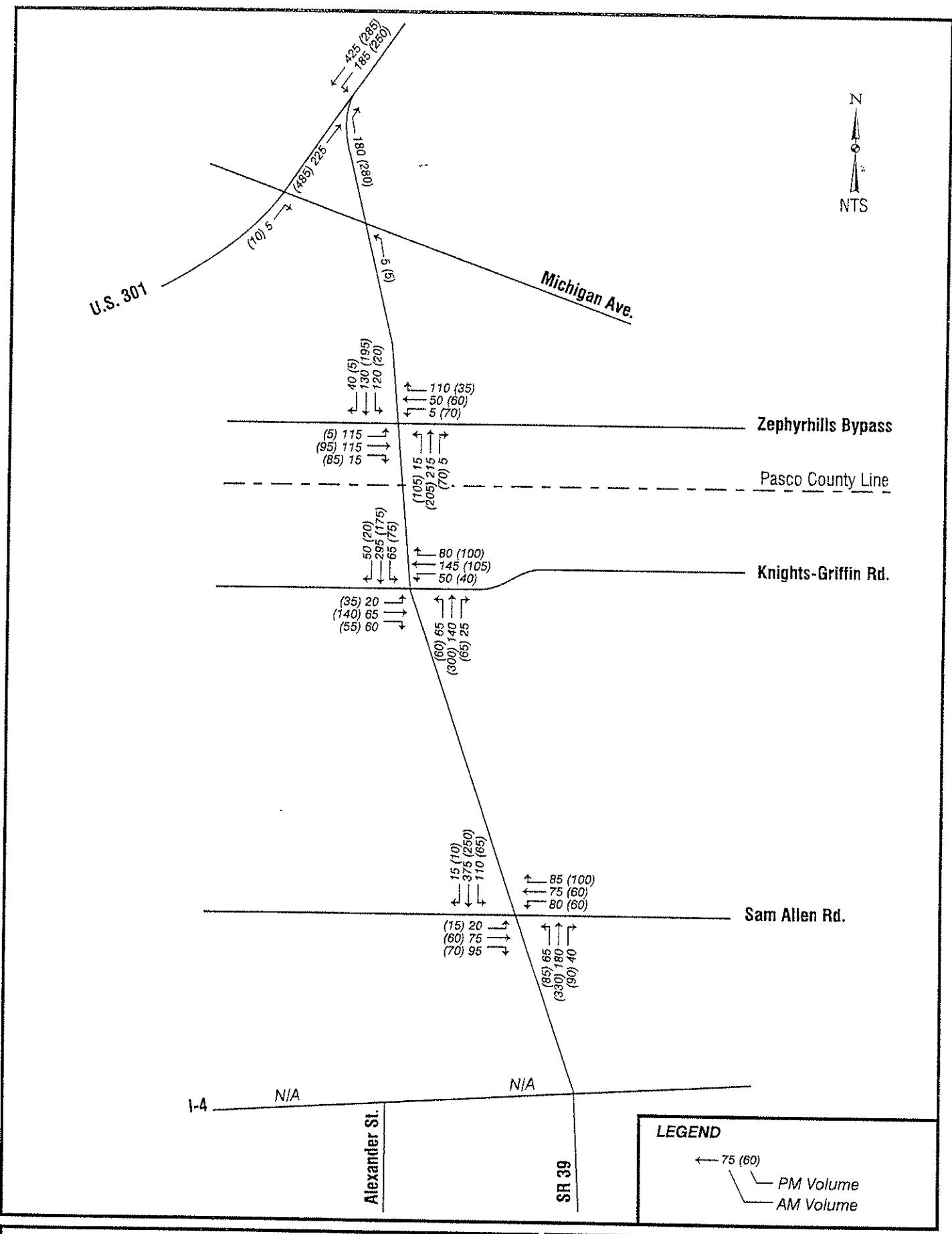
The AM and PM peak hour traffic volumes were adjusted to design hour conditions by applying a factor of 1.03 for Hillsborough County and 1.07 for Pasco County, from the 1997 Weekly Volume Factor Reports provided by District 7 Planning. The resulting 1998 AM and PM design hour volumes for the four study intersections are illustrated on Figure 5.

#### Truck, Bus, Pedestrian and Bicycle Volumes

The AM and PM peak period intersection turning movement counts also identified truck and bus (primarily school bus) volumes and the pedestrian and bicycle volumes at each of the four study intersections. The count summary sheets contained in Appendix B show that there was no significant pedestrian or bicycle volumes observed.

#### Existing Traffic Control And Posted Speed Limits

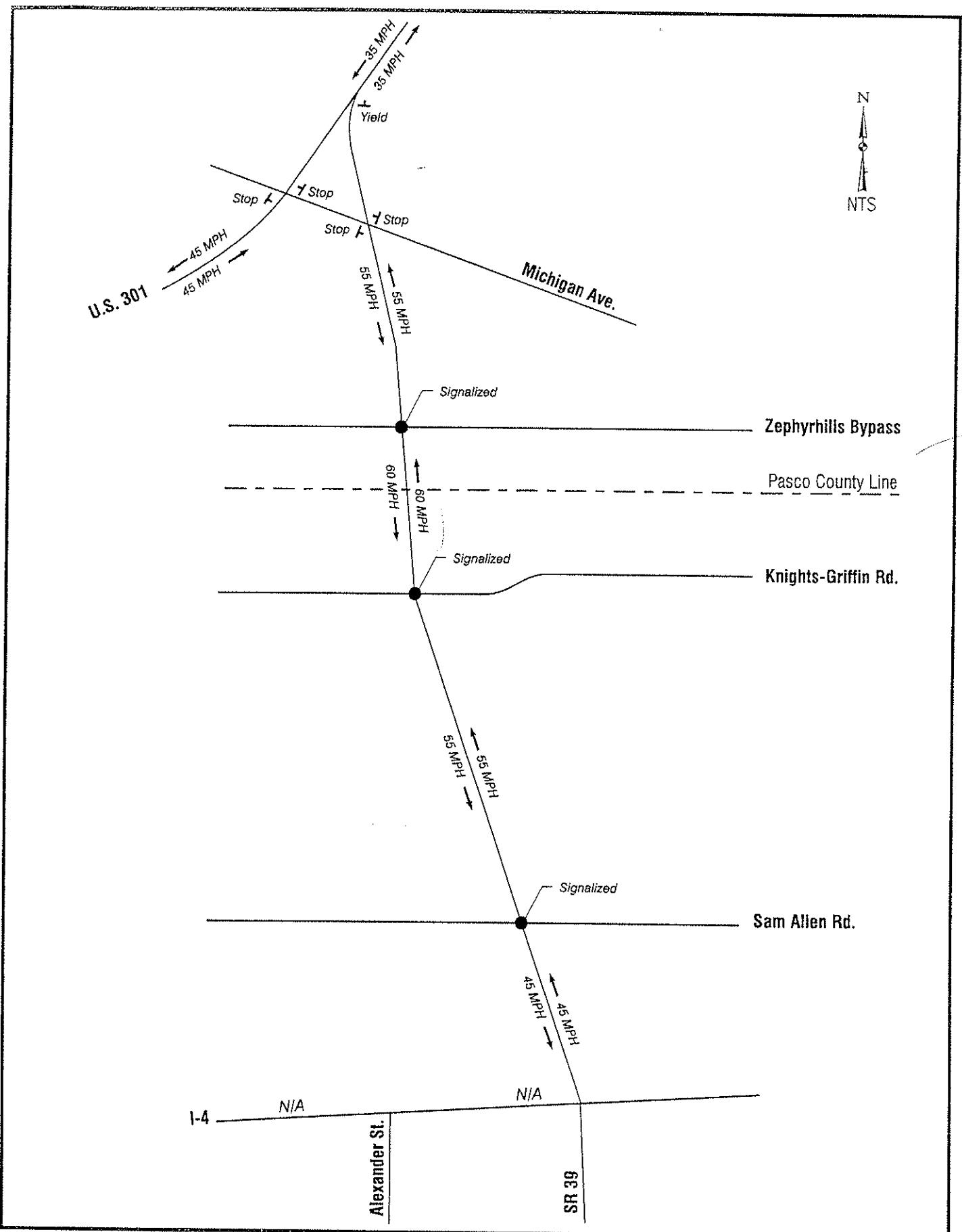
During the field review of the SR 39 corridor, the posted speed limits on SR 39 and on the four intersecting thoroughfare roadways were observed. The current posted speed limits on the study area roadways are illustrated on Figure 6.



1998 AM AND PM DESIGN HOUR  
INTERSECTION TURNING MOVEMENT VOLUMES

State Road 39 PD&E Study  
Project Traffic and Intersection  
Analysis Technical Memorandum

FIGURE  
5



EXISTING TRAFFIC CONTROL AND  
POSTED SPEED LIMITS

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FIGURE  
6

These eight crash experience summaries are contained in Appendix C. Using the crash data contained in Appendix C, Safety Ratios were calculated for the four intersections and four roadway segments previously listed. A summary of the calculated Safety Ratios is contained in Tables 1 and 2.

TABLE 1  
SUMMARY OF CALCULATED SAFETY RATIOS  
INTERSECTIONS

| Year | Safety Ratio                   |                     |                    |        |
|------|--------------------------------|---------------------|--------------------|--------|
|      | Street Intersecting With SR 39 |                     |                    |        |
|      | Sam Allen Road                 | Knights-Griffin Rd. | Zephyrhills Bypass | US 301 |
| 1993 | 0.867                          | 0.422               | 2.049              | 0.000  |
| 1994 | 0.610                          | 0.542               | 1.117              | 0.000  |
| 1995 | 0.717                          | 0.417               | 0.311              | 0.156  |
| 1996 | 0.540                          | 0.696               | 1.279              | 0.000  |
| 1997 | 1.701                          | 0.529               | 0.551              | 0.000  |

TABLE 2  
SUMMARY OF CALCULATED SAFETY RATIOS  
ROADWAY SEGMENTS

| Year | Safety Ratio          |                                       |  |                              |
|------|-----------------------|---------------------------------------|--|------------------------------|
|      | SR 39 Roadway Segment |                                       |  |                              |
|      | I-4 to Sam Allen Road | Sam Allen Rd. to Knights-Griffin Road | Knights-Griffin Road to Zephyrhills Bypass | Zephyrhills Bypass to US 301 |
| 1993 | 2.801                 | 0.802                                 | 0.000                                      | 0.000                        |
| 1994 | 1.867                 | 0.692                                 | 0.474                                      | 0.000                        |
| 1995 | 0.682                 | 0.848                                 | 0.835                                      | 0.000                        |
| 1996 | 1.678                 | 0.765                                 | 0.678                                      | 0.000                        |
| 1997 | 0.000                 | 0.000                                 | 0.000                                      | 0.426                        |

TABLE 3  
RESULTS OF UNSIGNALIZED INTERSECTION LOS ANALYSIS  
1998 CONDITIONS

| Intersection |    | Level of Service |      |         |       |
|--------------|----|------------------|------|---------|-------|
|              |    |                  | Left | Through | Right |
| SR 39/US 301 | NB | AM               | A    | -       | A     |
|              |    | PM               | A    | -       | B     |
|              | SB | AM               | -    | -       | -     |
|              |    | PM               | -    | -       | -     |
|              | EB | AM               | -    | -       | A     |
|              |    | PM               | -    | -       | B     |
|              | WB | AM               | A    | -       | -     |
|              |    | PM               | B    | -       | -     |

TABLE 4  
RESULTS OF SIGNALIZED INTERSECTION LOS ANALYSIS  
1998 CONDITIONS

| Intersection              |    | Average Delay (Seconds) | LOS |
|---------------------------|----|-------------------------|-----|
| SR 39/Sam Allen Road      | AM | 11.6                    | B   |
|                           | PM | 11.2                    | B   |
| SR 39/Knights Griffin Rd. | AM | 9.8                     | B   |
|                           | PM | 9.7                     | B   |
| SR 39/Zephyrhills Road    | AM | 9.0                     | B   |
|                           | PM | 8.9                     | B   |

TABLE 5  
 RESULTS OF ROADWAY SEGMENT LOS ANALYSIS  
 1998 CONDITIONS

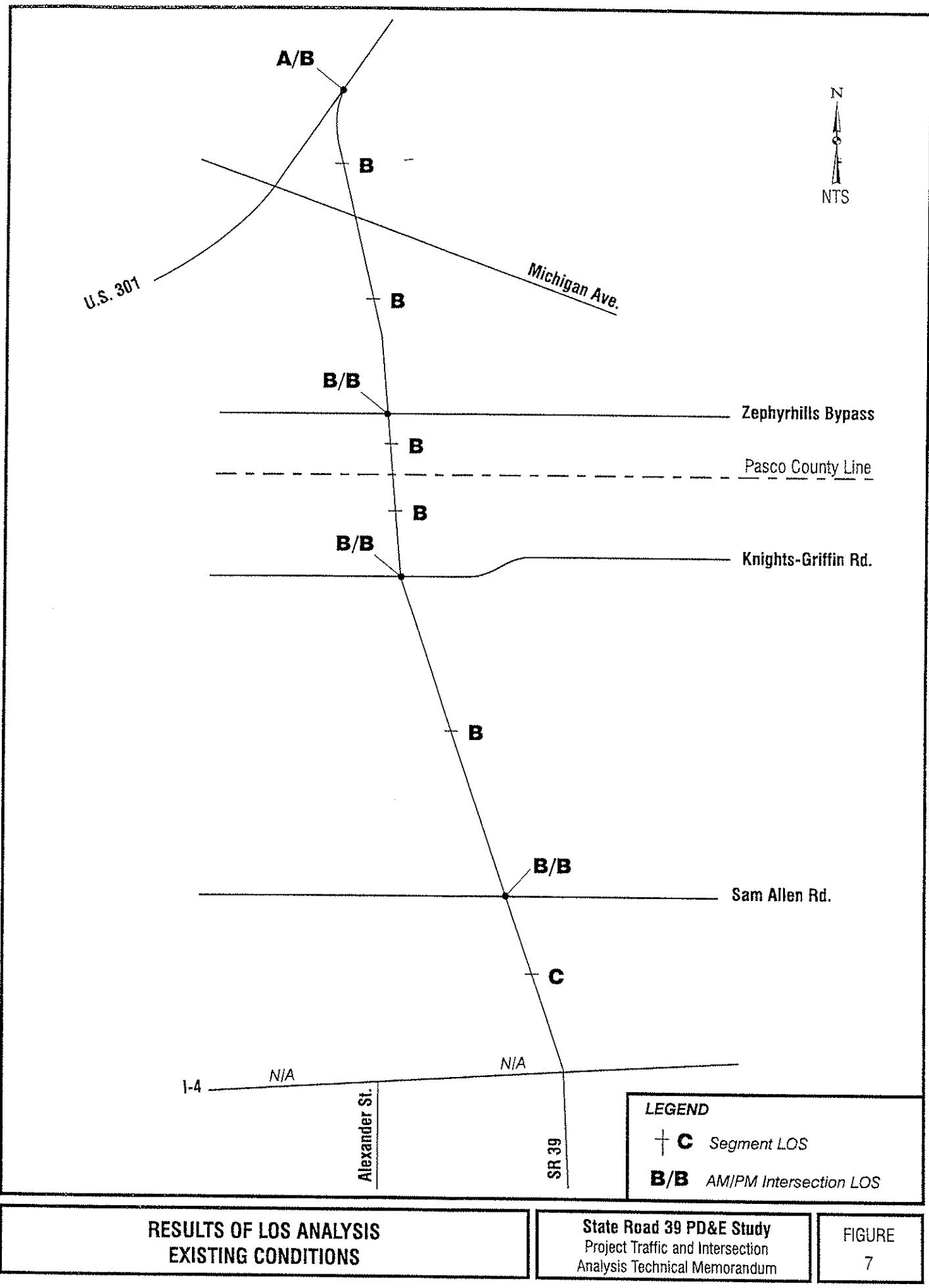
| Road Segment                               | AADT Volume | Level of Service |
|--|-------------|------------------|
| I-4 to Sam Allen Road                      | 12,200      | C                |
| Sam Allen Road to Knights- Griffin Road    | 10,000      | B                |
| Knights-Griffins Road to Pasco County Line | 8,500       | B                |
| Pasco County Line to Zephyrhills Bypass    | 9,900       | B                |
| Zephyrhills Bypass to US 301               | 8,900       | B                |

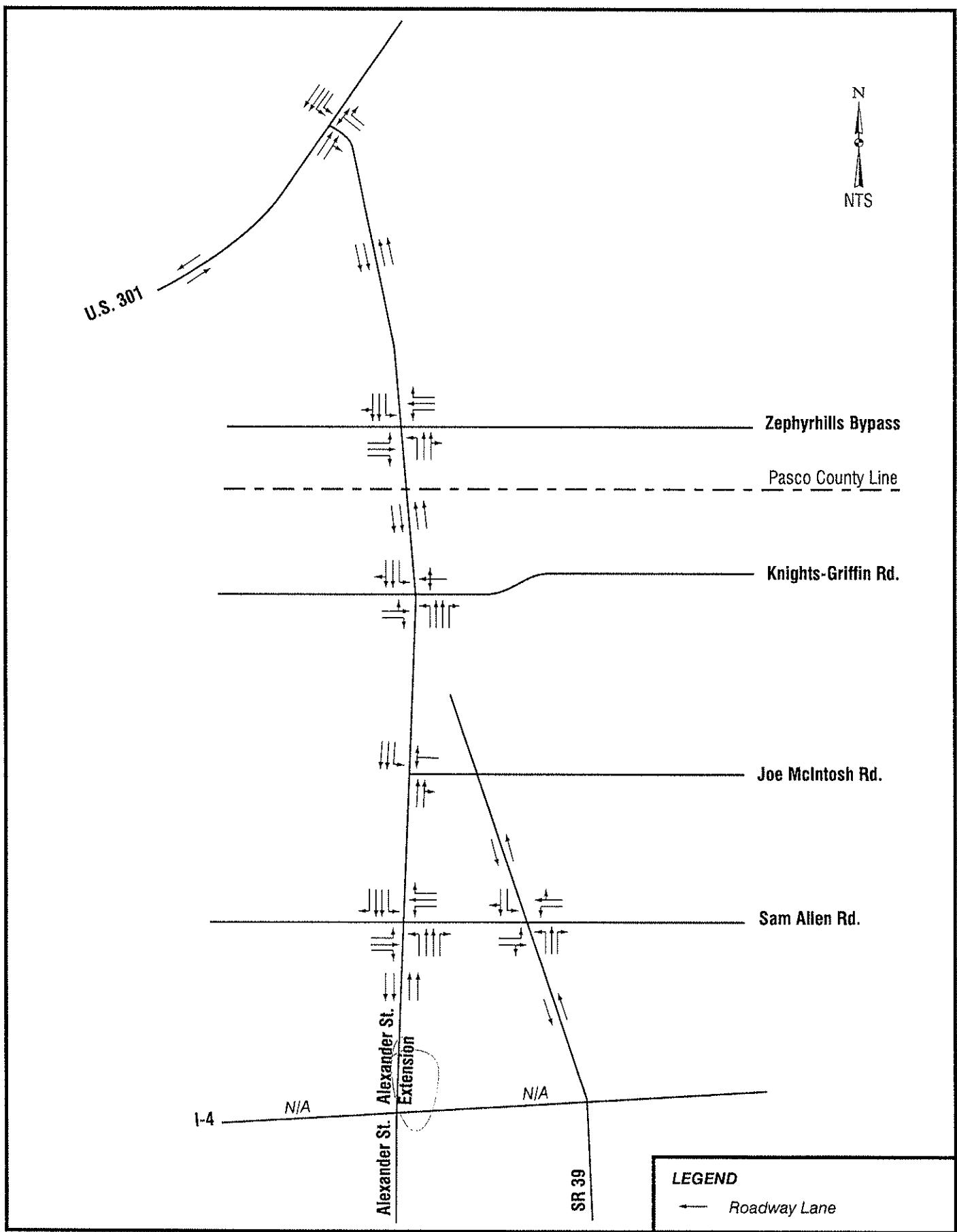
#### **FUTURE CONDITIONS**

The extension of Alexander Street from I-4 to SR 39 will add two (2) new intersections to the study area as follows:

1. Alexander Street Extension/Sam Allen Road
2. Alexander Street Extension/SR 39

The Build alternative proposes that the Alexander Street Extension - SR 39 alignment, within the project limits, be constructed as a four-lane divided roadway. The existing segment of SR 39 between I-4 and the Alexander Street Extension is proposed to remain a two-lane undivided roadway. The proposed lane use on the Alexander Street Extension, and on SR 39 including the six (6) study intersections, is illustrated on Figure 8, which represents the Build alternative roadway network.





BUILD ALTERNATIVE  
ROADWAY NETWORK

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Project Traffic and Intersection  
Analysis Technical Memorandum

FIGURE  
8

### Year 2010 And 2020 Traffic Forecasts

Design traffic data for the years 2005 and 2020 for the Build and No-Build alternatives was provided by the District 7 Planning office and is contained in Appendix A. Design traffic factors (K, D and T) are summarized in Table 6.

TABLE 6  
DESIGN TRAFFIC FACTORS

| Roadway                         | K Factor | D Factor | 24-Hour Truck Factor | Design Hour Truck Factor |
|---------------------------------|----------|----------|----------------------|--------------------------|
| US 301                          | 10.56%   | 54.1%    | 8.0%                 | 4.0%                     |
| Alexander Street Extension      | 9.54%    | 59.5%    | 14.0%                | 7.0%                     |
| Zephyrhills Bypass (Chaney Rd.) | 9.54%    | 59.5%    | 6.0%                 | 3.0%                     |
| Knights-Griffin Rd.             | 9.54%    | 59.5%    | 6.0%                 | 3.0%                     |
| Sam Allen Rd.                   | 9.54%    | 59.5%    | 6.0%                 | 3.0%                     |

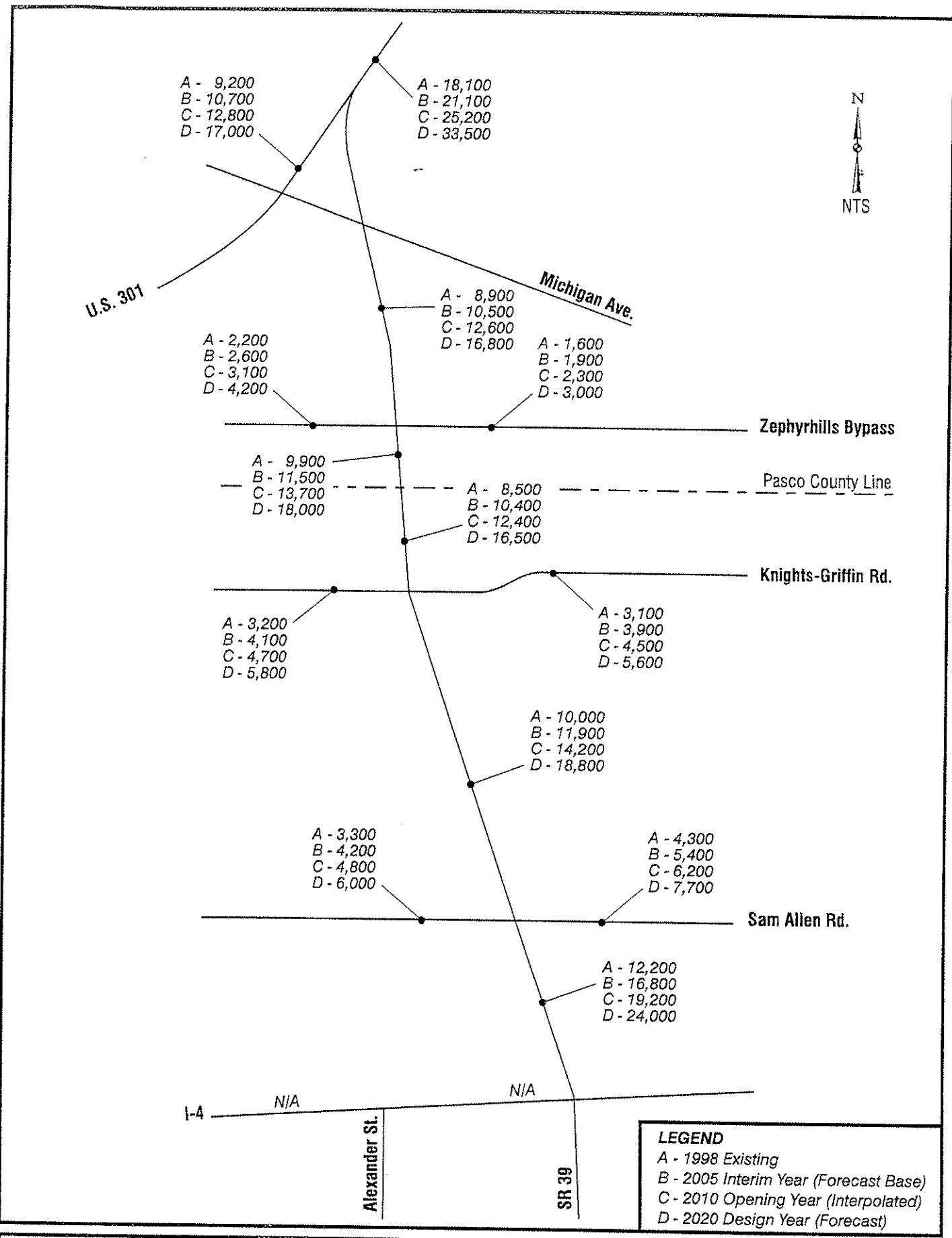
The factors identified for the Alexander Street Extension were assumed for SR 39.

### **AADT Volumes**

The AADT volumes for the year 2010 (project opening year), were interpolated from the year 2005 and year 2020 AADT volumes. Figures 9 and 10 illustrate the year 2010 and 2020 No-Build and Build AADT volumes, respectively, on the study roadways.

### **Design Hour Volumes**

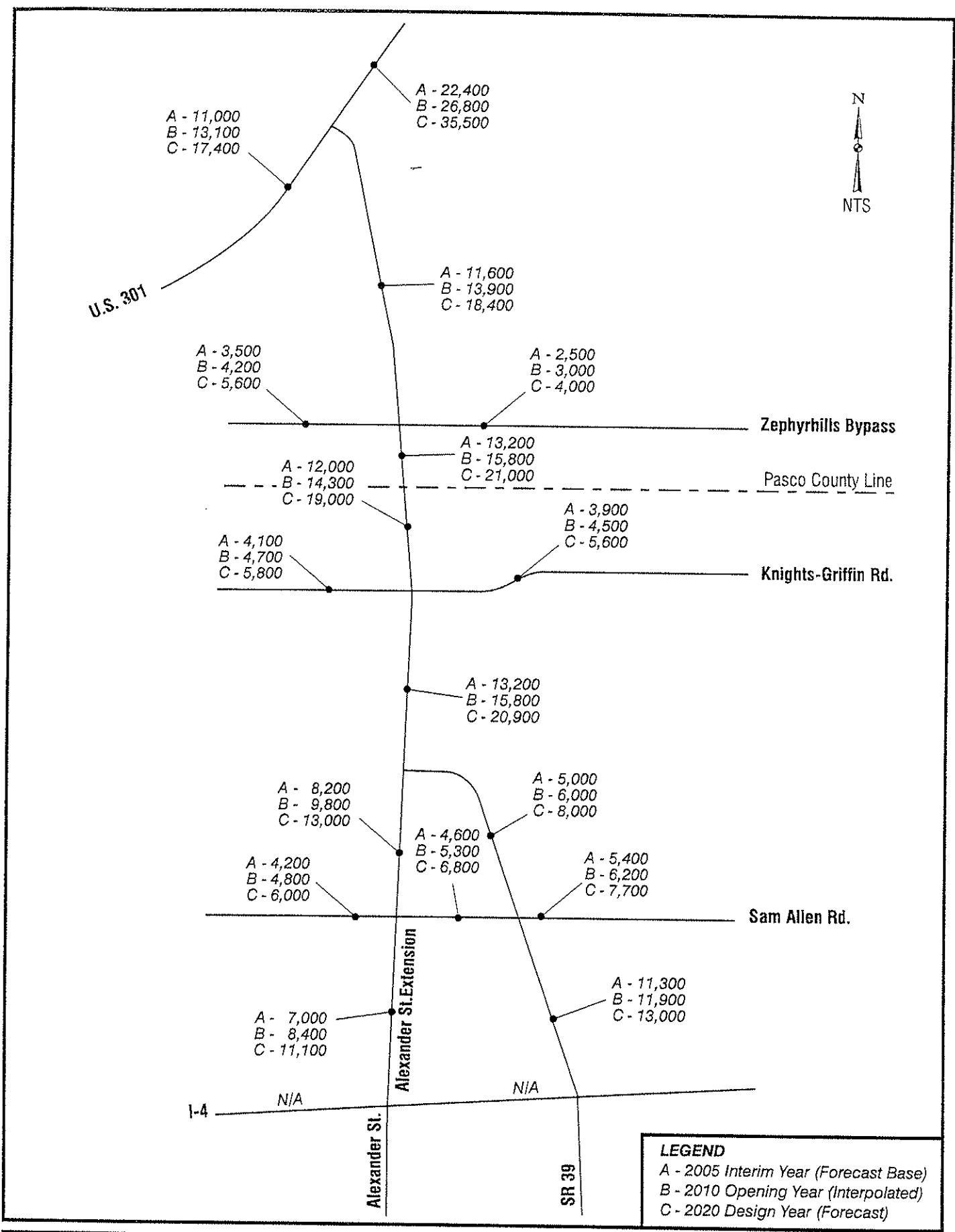
Design hour segment volumes and AM and PM design hour turning movement volumes for the years 2010 and 2020 were estimated using the TURNS 4 software and the 1998, 2005, and 2020 AADT volume data previously described. The output from the TURNS 4 analysis is contained in



**NO BUILD ALTERNATIVE**  
**AADT**

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**FIGURE**  
**9**



**BUILD ALTERNATIVE  
AADT**

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**FIGURE  
10**

Appendix E. The results of the TURNS 4 analysis was used as a preliminary estimate which was then manually adjusted to achieve a reasonable correlation with the distributions from the 2005 and 2020 AADT volumes provided by FDOT.

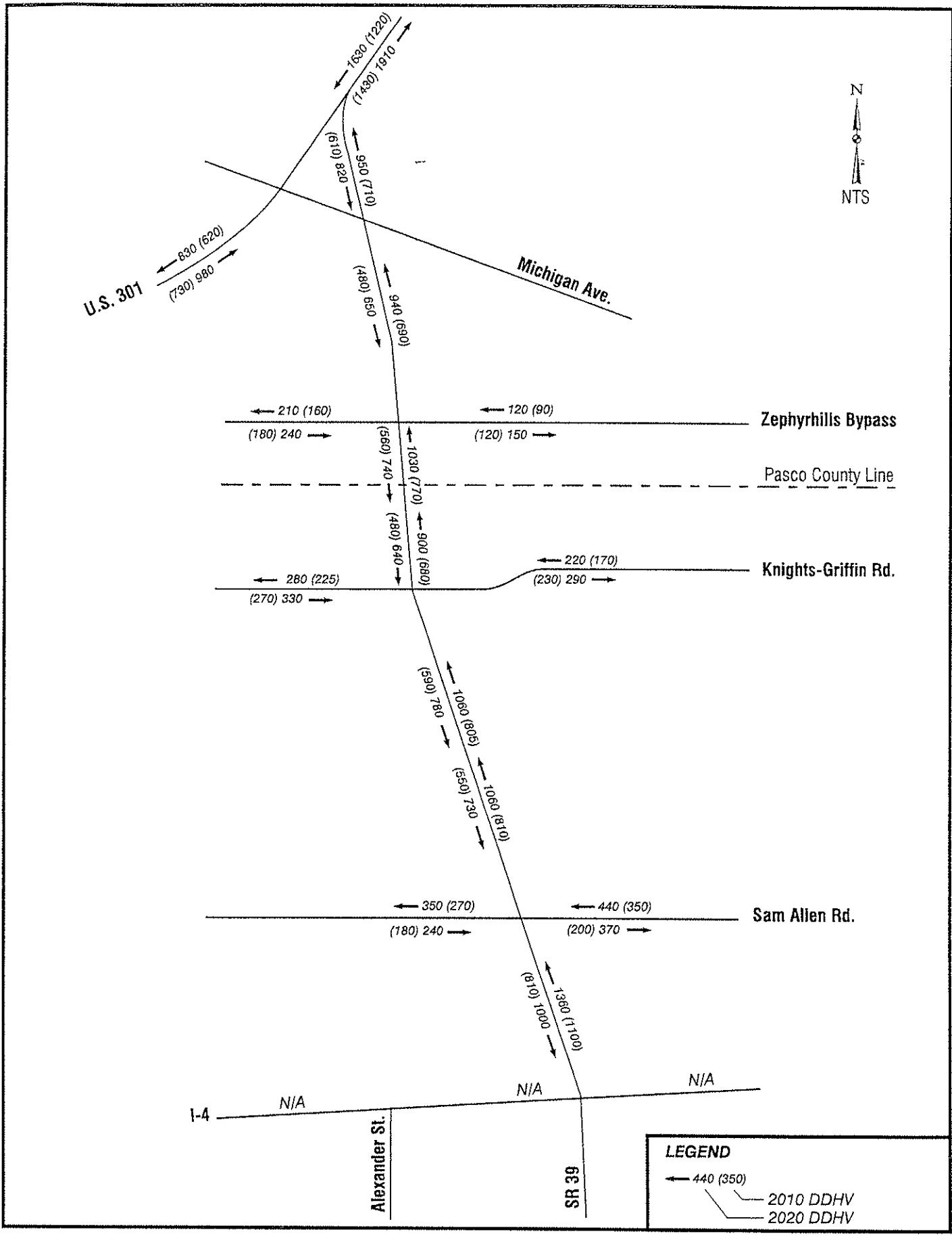
Figures 11 and 12 illustrate the years 2010 and 2020 Directional Design Hour Volumes (DDHV) for the No-Build and Build alternatives, respectively. Figures 13 and 14 illustrate the years 2010 and 2020, respectively, AM and PM design hour intersection turning movement volumes for the No-Build alternative. Figures 15 and 16 illustrate the years 2010 and 2020, respectively, AM and PM design hour intersection turning movement volumes for the Build alternative.

#### Year 2010 and 2020 Level of Service Analysis

Intersection and roadway segment LOS analyses were conducted to determine the operational characteristics on SR 39 within the project limits, and on the Alexander Street Extension in the years 2010 and 2020. The intersection LOS analyses were conducted using the years 2010 and 2020 design hour traffic volumes for the No-Build and the Build alternatives, and the procedures from the Transportation Research Board Special Report 209 - Highway Capacity Manual (HCM), 1997, Chapter 9 (Signalized Intersections) and Chapter 10 (Unsignalized Intersections).

The roadway segment LOS analyses were conducted using the years 2010 and 2020 AADT volumes for the No-Build and the Build alternatives, and Florida's Level of Service Standards and Guidelines Manual for Planning, 1995.

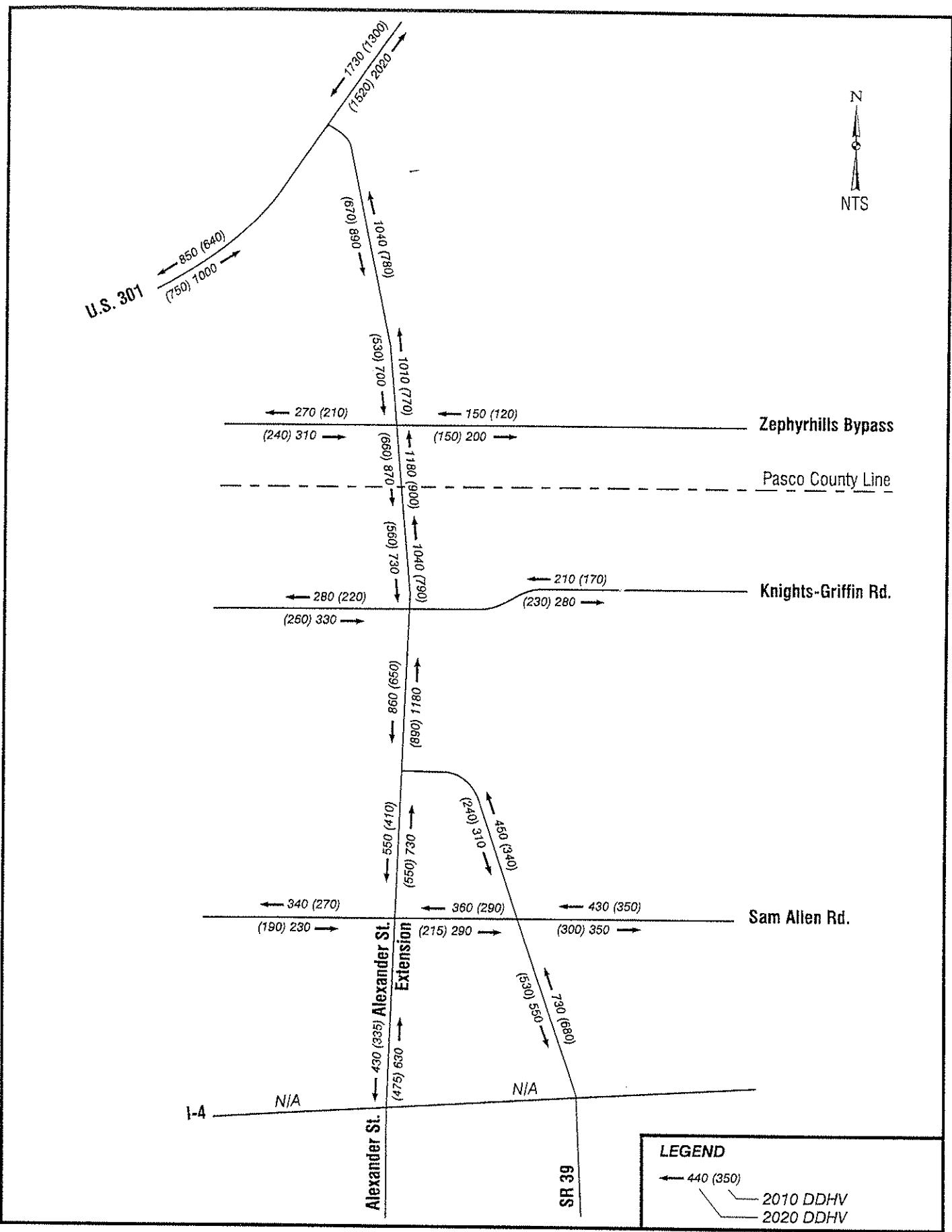
The HCS worksheets for the No-Build and Build analyses are contained in Appendix F and G, respectively. A copy of the capacity table used in the roadway segment capacity analyses is contained in Appendix G.



**NO BUILD ALTERNATIVE  
DIRECTIONAL DESIGN HOUR VOLUMES**

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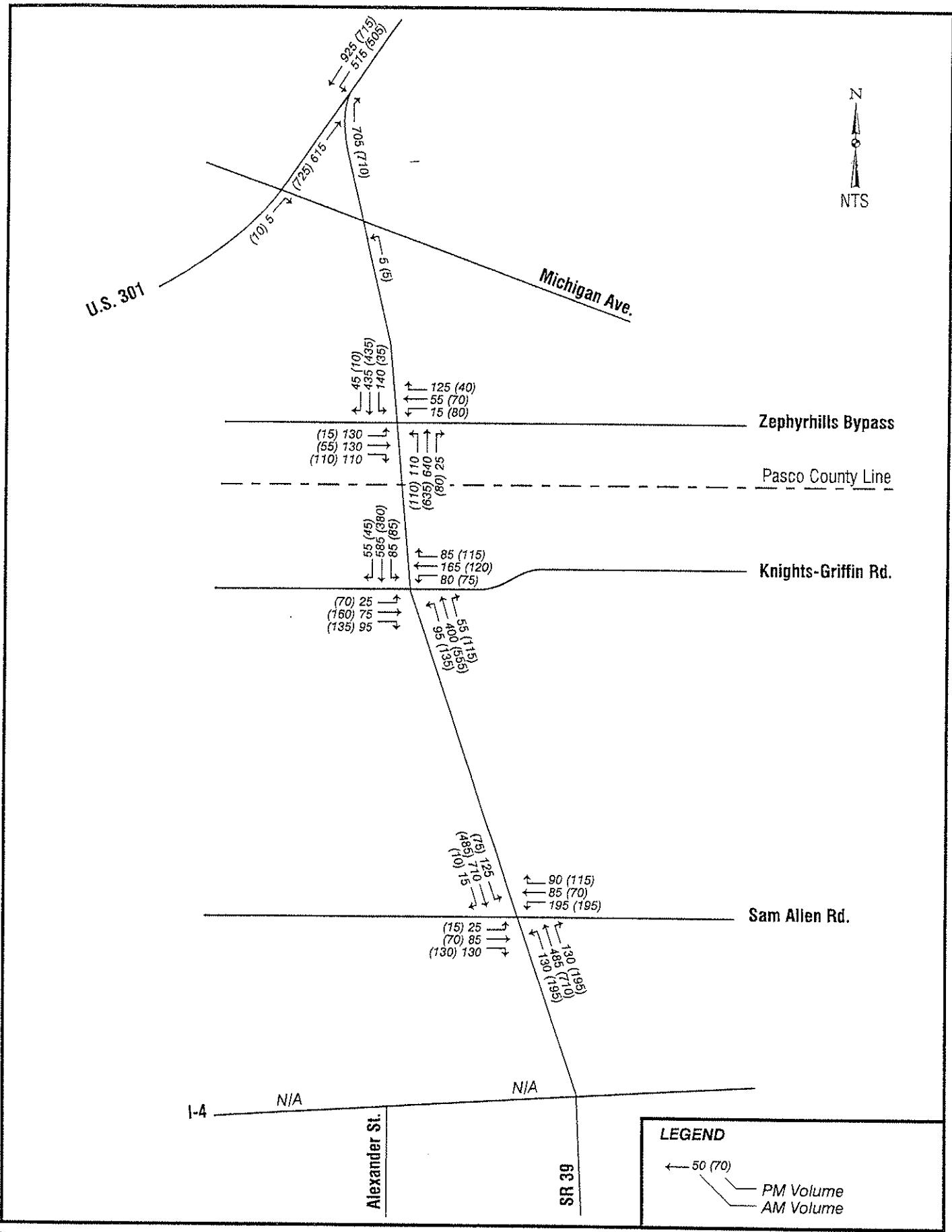
**FIGURE  
11**



**BUILD ALTERNATIVE  
DIRECTIONAL DESIGN HOUR VOLUMES**

**State Road 39 PD&E Study  
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Analysis Technical Memorandum**

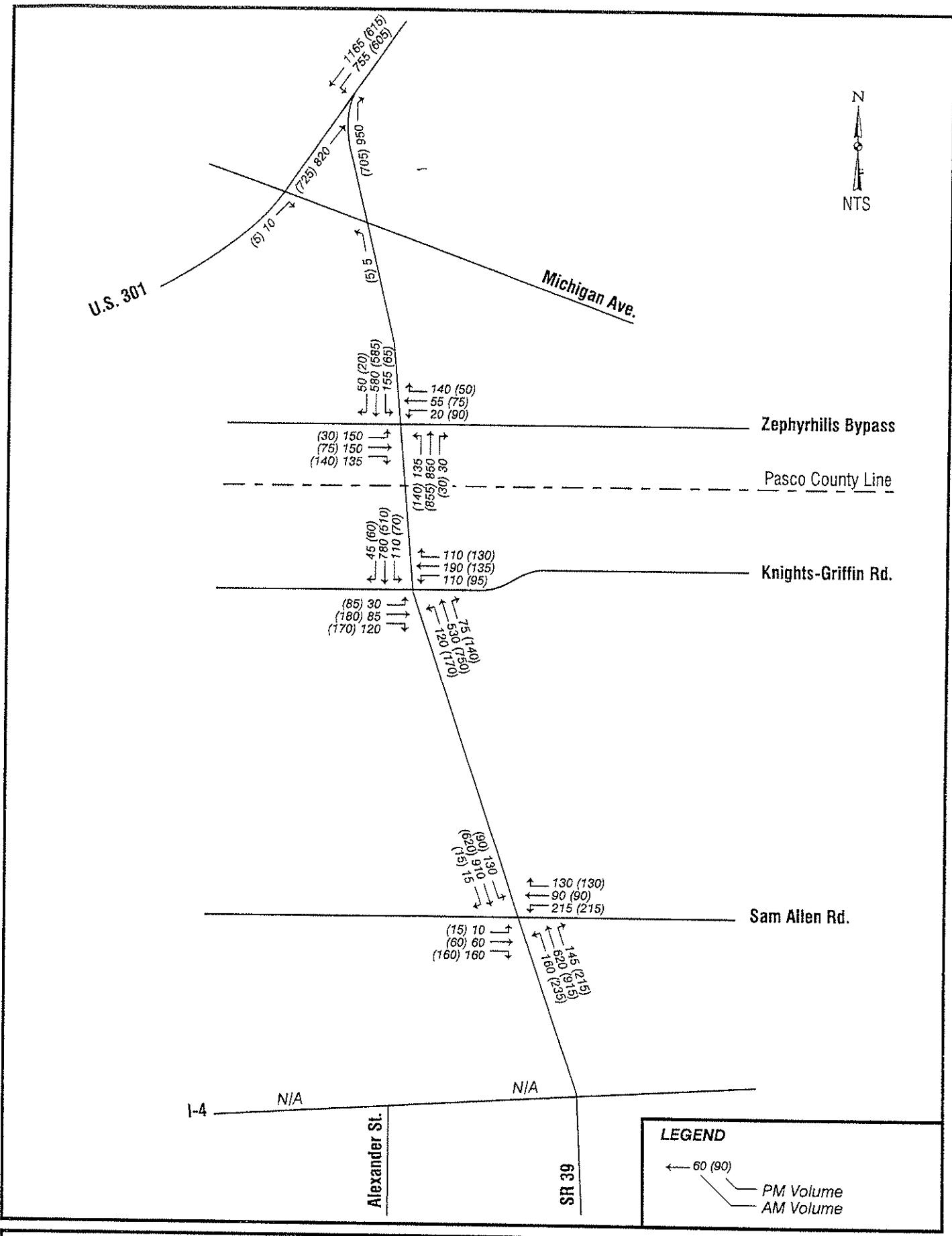
**FIGURE  
12**

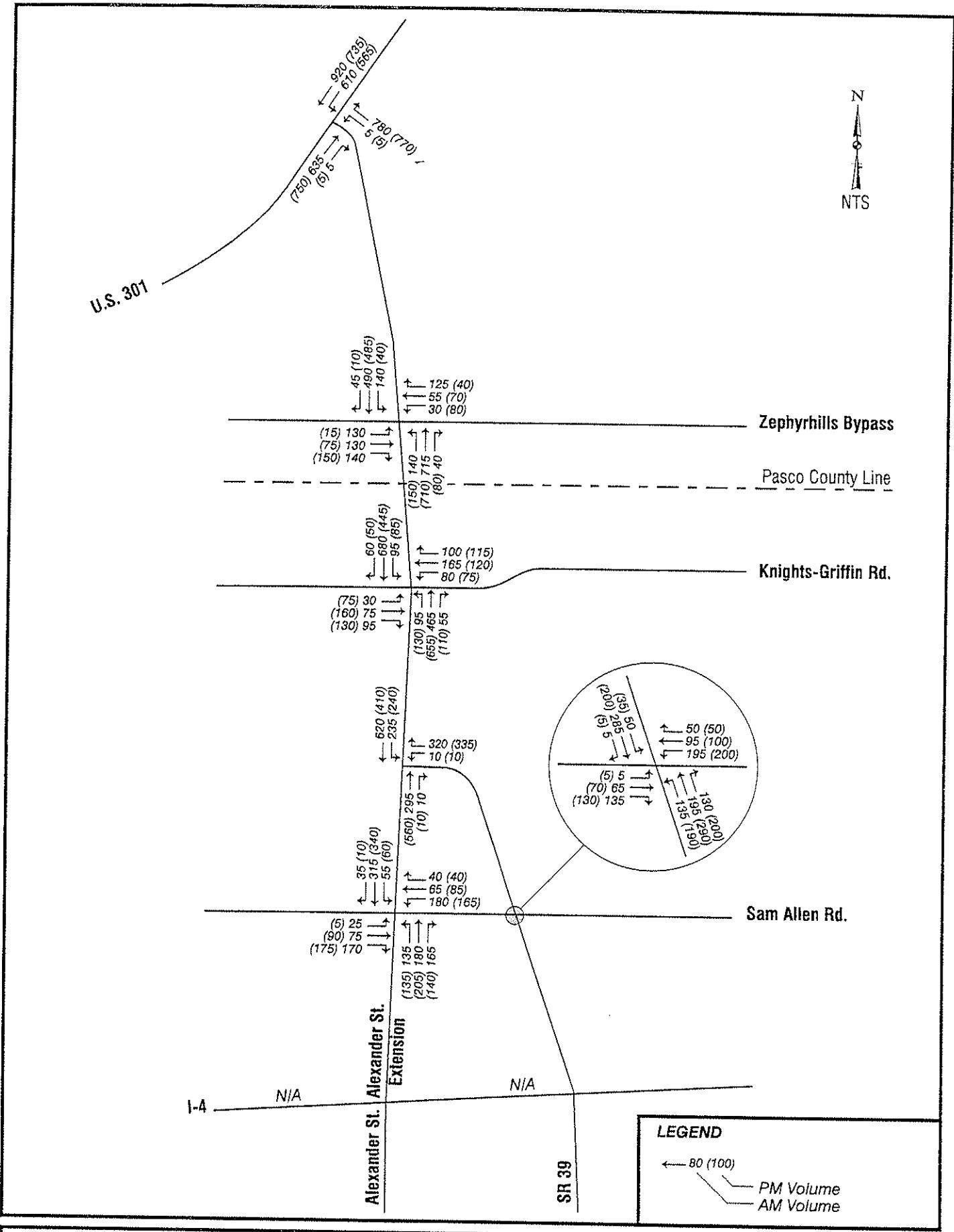


**NO BUILD ALTERNATIVE  
YEAR 2010 TURNING MOVEMENT VOLUMES**

**State Road 39 PD&E Study  
Project Traffic and Intersection  
Analysis Technical Memorandum**

**FIGURE  
13**

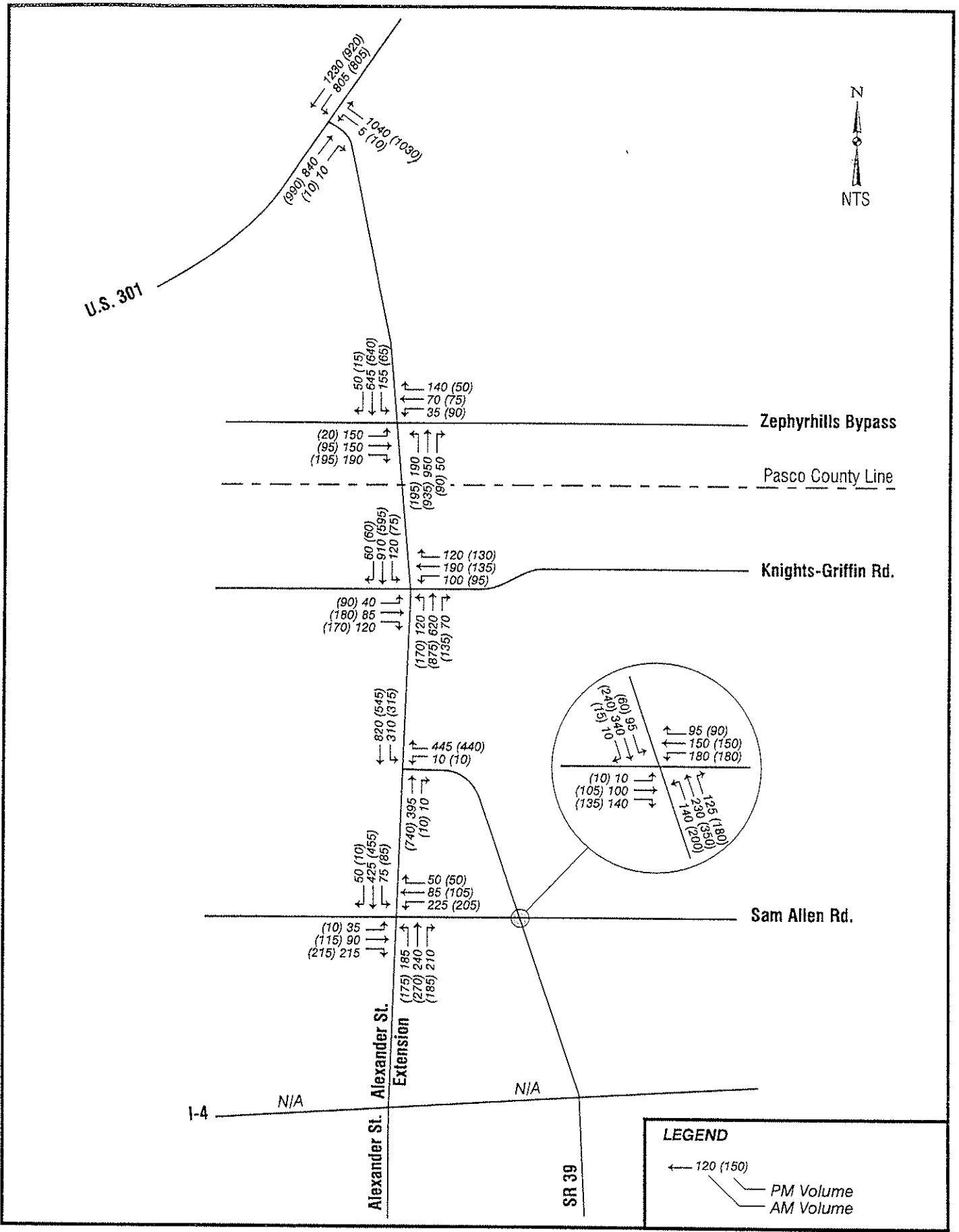




**BUILD ALTERNATIVE**  
**YEAR 2010 TURNING MOVEMENT VOLUMES**

**State Road 39 PD&E Study**  
Project Traffic and Intersection  
Analysis Technical Memorandum

**FIGURE**  
**15**



BUILD ALTERNATIVE  
YEAR 2020 TURNING MOVEMENT VOLUMES

**State Road 39 PD&E Study**  
Project Traffic and Intersection  
Analysis Technical Memorandum

FIGURE  
16

The results of the roadway segment LOS analysis for the years 2010 and 2020 for the No-Build alternative are summarized in Table 7 and are illustrated on Figure 17. The results of the roadway segment LOS analysis for the years 2010 and 2020 for the Build alternative are summarized in Table 8 and are illustrated on Figure 18.

The results of the intersection LOS analysis for the years 2010 and 2020 for the No-Build alternative are summarized in Table 9 and are illustrated on Figure 19. The results of the intersection LOS analysis for the years 2010 and 2020 for the Build alternative are summarized in Table 10 and are illustrated on Figure 20.

### **Intersection Queue Length Analysis**

A queue length analysis was conducted for the Build alternative for the AM and PM peak hours in the years 2010 and 2020. The results of this analysis are summarized in Appendix H.

The analysis used the FDOT Plans Preparation Manual (PPM) formula for computing queue lengths and the intersection traffic volumes illustrated on Figures 15 and 16. A 90-second traffic signal cycle, or 40 cycles per hour, was assumed for this analysis.

### **CONCLUSIONS**

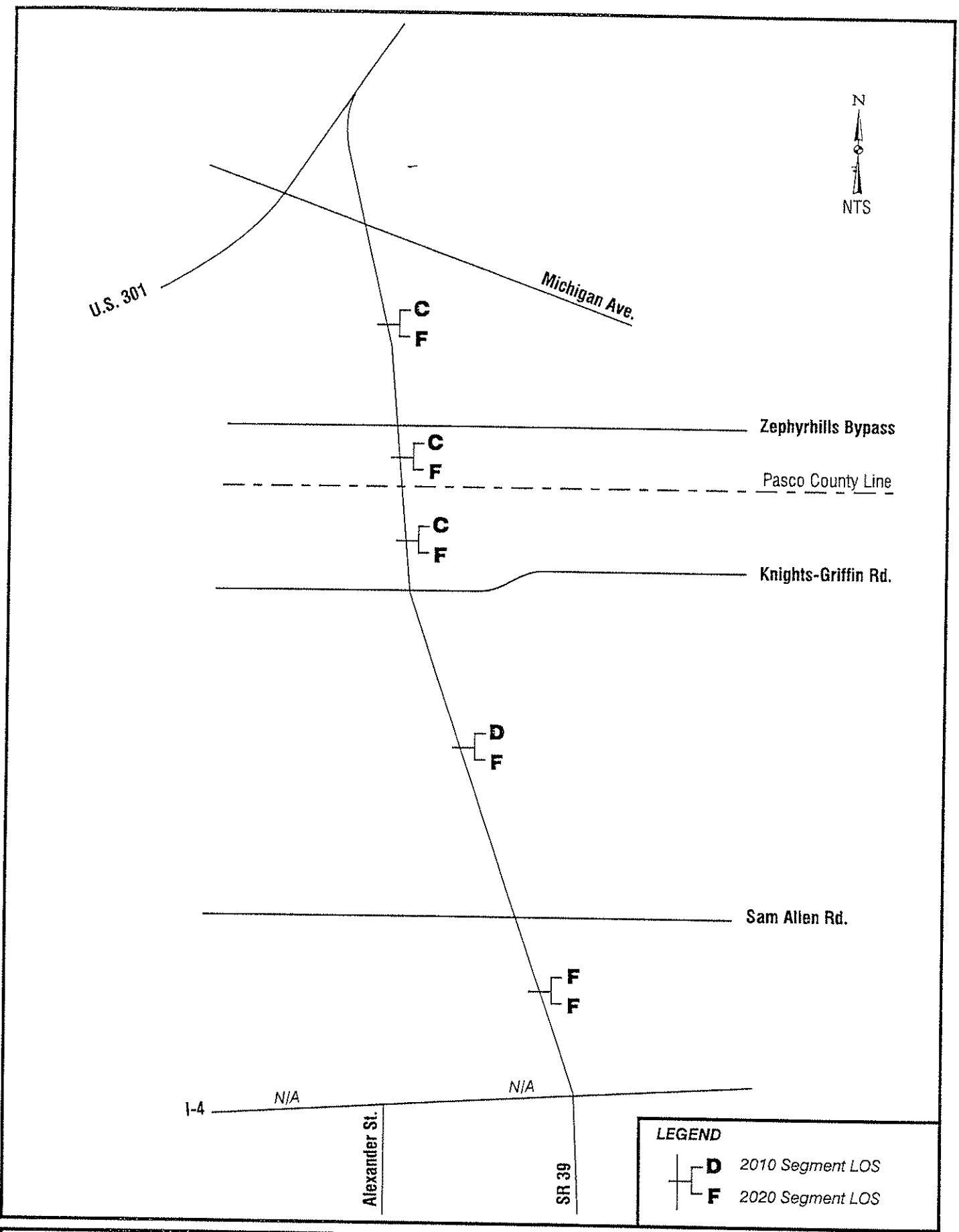
The level of service analysis indicates that by the design year 2020 SR 39 will require a four-lane cross-section to maintain an acceptable level of service.

The analyses indicate that the intersection lane-use illustrated on Figure 8 should provide a good level of service through the year 2020, except at the intersection of SR 39 with US 301. The analyses indicate that by 2020, the south approach of SR 39 at US 301 will require exclusive dual right turn lanes in addition to a separate left turn lane. The intersection lane requirements to accommodate year 2020 AM and PM design hour traffic volumes is illustrated on Figure 21.

The crash analysis indicates that although SR 39, within the study limits, is operating within generally expected parameters with respect to the number and types of crashes, the number of injuries experienced is high, averaging approximately 1.5 injuries per crash. This high injury rate is probably due to the high speeds on SR 39 and the lack of access control common on two-lane highways. A four-lane median divided roadway on SR 39 should have a positive impact on the safety of traffic operations because it will provide increased control of access to the roadway and improved definition at the intersections on SR 39 within the study limits.

TABLE 7  
RESULTS OF YEAR 2010 AND 2020 ROADWAY SEGMENT LOS ANALYSIS  
NO-BUILD ALTERNATIVE

| Road Segment                              | Number of Lanes | AADT Volume |        | Level of Service |      |
|---|-----------------|-------------|--------|------------------|------|
|   |                 | 2010        | 2020   | 2010             | 2020 |
| <b><u>SR 39</u></b>                       |                 |             |        |                  |      |
| I-4 to Sam Allen Road                     | 2               | 19,200      | 24,000 | F                | F    |
| Sam Allen Road to Knights-Griffin Road    | 2               | 14,200      | 18,800 | D                | F    |
| Knights-Griffin Road to Pasco County Line | 2               | 12,400      | 16,500 | C                | F    |
| Pasco County Line to Zephyrhills Bypass   | 2               | 13,700      | 18,000 | C                | F    |
| Zephyrhills Bypass to US 301              | 2               | 12,600      | 16,800 | C                | F    |



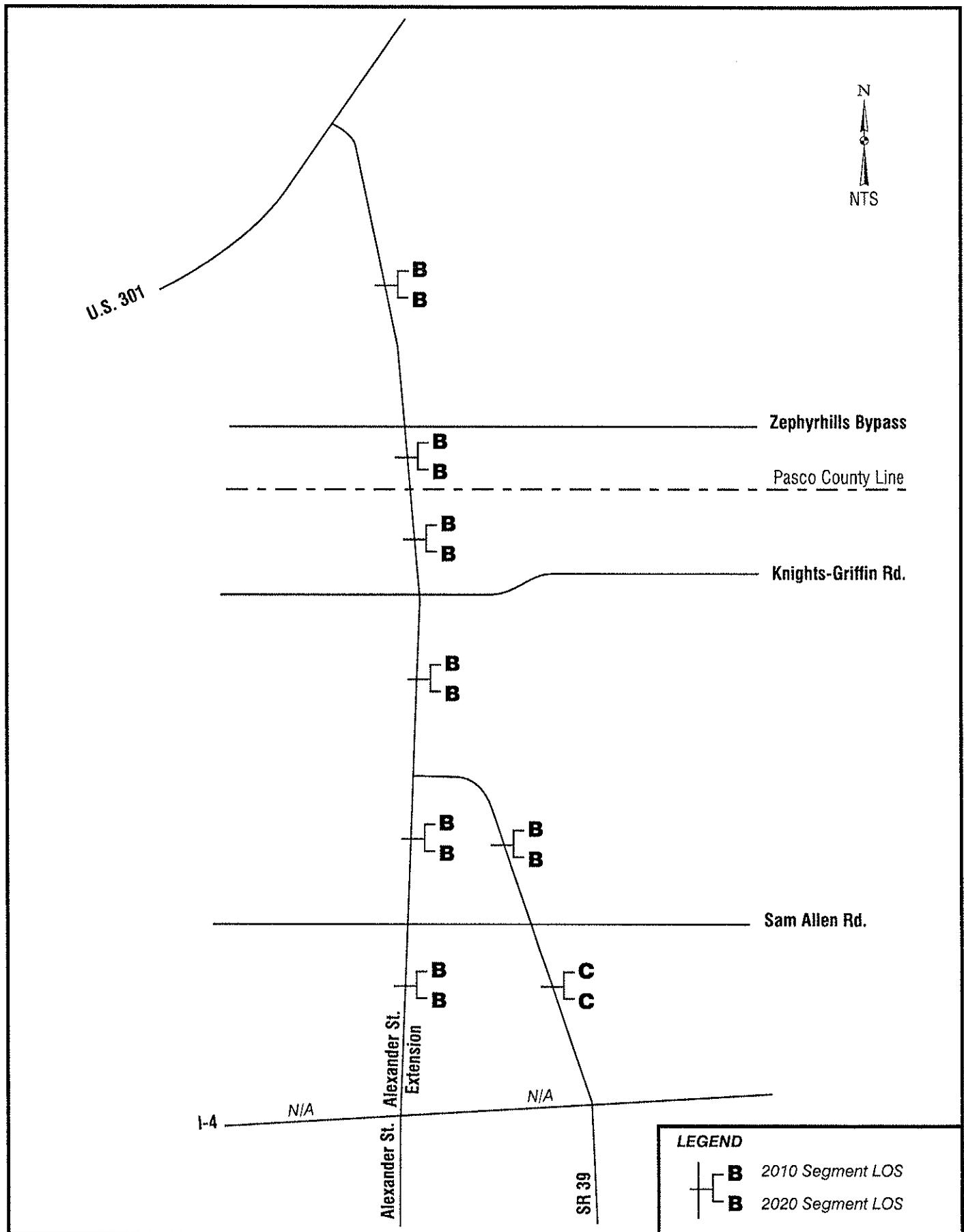
**RESULTS OF YEAR 2010 AND 2020 ROADWAY SEGMENT LOS ANALYSIS - NO BUILD ALTERNATIVE**

**State Road 39 PD&E Study  
Project Traffic and Intersection Analysis Technical Memorandum**

**FIGURE  
17**

TABLE 8  
 RESULTS OF YEAR 2010 AND 2020 ROADWAY SEGMENT LOS ANALYSIS  
 BUILD ALTERNATIVE

| Road Segment                                    | Number<br>of Lanes | AADT Volume |        | Level of Service |      |
|---|--------------------|-------------|--------|------------------|------|
|   |                    | 2010        | 2020   | 2010             | 2020 |
| <b><u>SR 39</u></b>                             |                    |             |        |                  |      |
| I-4 to Sam Allen Road                           | 2                  | 11,900      | 13,000 | C                | C    |
| Sam Allen Road to Alexander St.<br>Extension    | 2                  | 6,000       | 8,000  | B                | B    |
| Alexander St. Extension to Knights-Griffin Road | 4                  | 15,800      | 20,900 | B                | B    |
| Knights-Griffin Road to Pasco County Line       | 4                  | 14,300      | 19,000 | B                | B    |
| Pasco County Line to Zephyrhills Bypass         | 4                  | 15,800      | 21,000 | B                | B    |
| Zephyrhills Bypass to US 301                    | 4                  | 13,900      | 18,400 | B                | B    |
| <b><u>Alexander Street Extension</u></b>        |                    |             |        |                  |      |
| I-4 to Sam Allen Road                           | 4                  | 8,400       | 11,100 | B                | B    |
| Sam Allen Road to SR 39                         | 4                  | 9,800       | 13,000 | B                | B    |



RESULTS OF YEAR 2010 AND 2020 ROADWAY SEGMENT  
LOS ANALYSIS - BUILD ALTERNATIVE

State Road 39 PD&E Study  
Project Traffic and Intersection  
Analysis Technical Memorandum

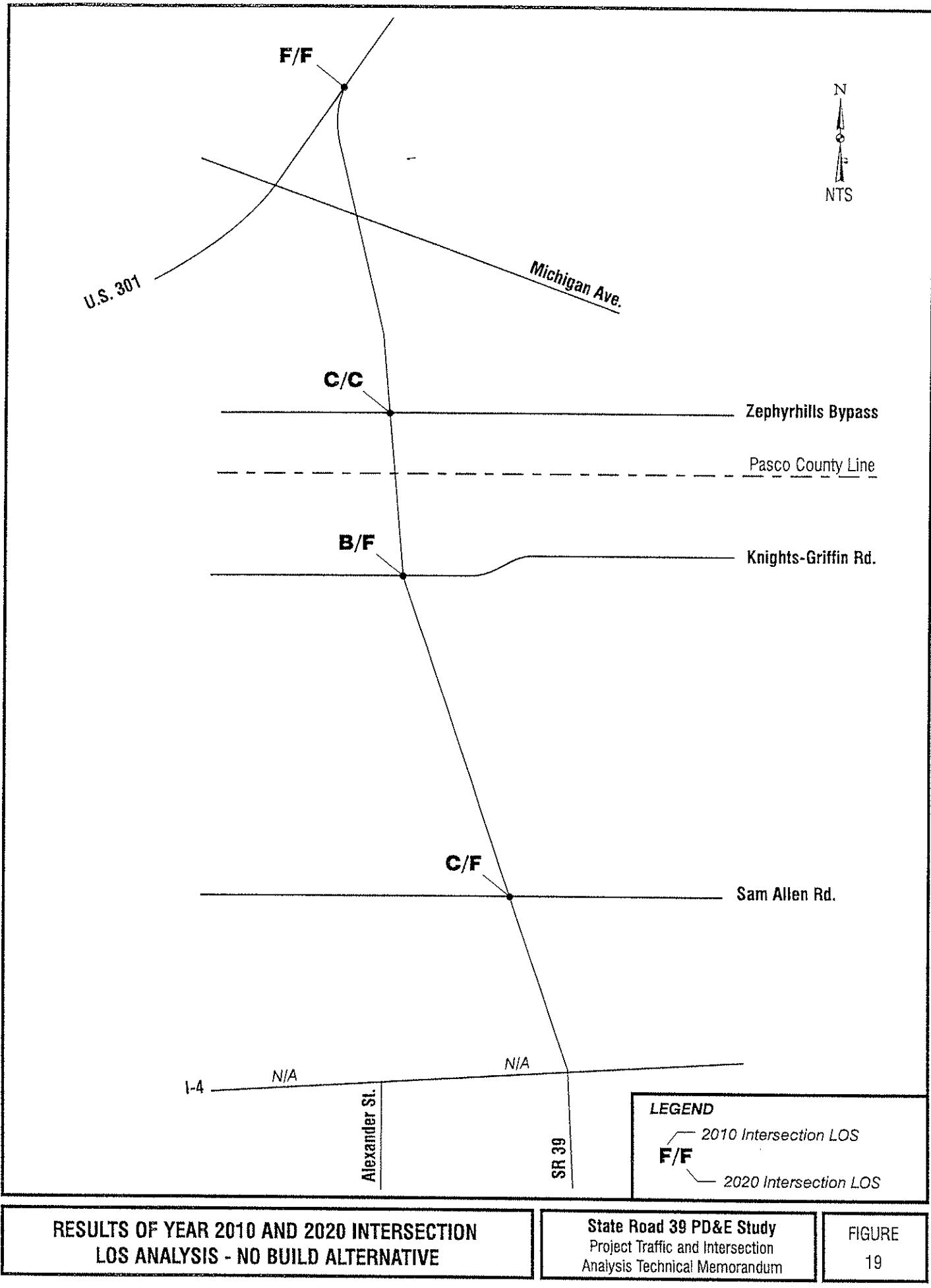
FIGURE  
18

TABLE 9  
RESULTS OF YEAR 2010 AND 2020 INTERSECTION LOS ANALYSIS  
NO-BUILD ALTERNATIVE

| Intersection                |    | 2010                   |     | 2020                   |     |
|-----------------------------|----|------------------------|-----|------------------------|-----|
|                             |    | Average Delay(Seconds) | LOS | Average Delay(Seconds) | LOS |
| SR 39/Sam Allen Road        | AM | 22.0                   | C   | *                      | F   |
|                             | PM | 19.2                   | C   | *                      | F   |
| SR 39/Knights-Griffith Road | AM | 12.3                   | B   | *                      | F   |
|                             | PM | 14.5                   | B   | *                      | F   |
| SR 39/Zephyrhills Bypass    | AM | 15.7                   | C   | 24.8                   | C   |
|                             | PM | 13.3                   | B   | 12.5                   | B   |
| SR 39/US 301                | AM | 116.2                  | F   | 999.9                  | F   |
|                             | PM | 200.7                  | F   | 207.7                  | F   |

TABLE 10  
RESULTS OF YEAR 2010 AND 2020 INTERSECTION LOS ANALYSIS  
BUILD ALTERNATIVE

| Intersection                               |    | 2010                   |     | 2020                   |     |
|--|----|------------------------|-----|------------------------|-----|
|  |    | Average Delay(Seconds) | LOS | Average Delay(Seconds) | LOS |
| SR 39/Sam Allen Road                       | AM | 12.7                   | B   | 13.6                   | B   |
|  | PM | 12.7                   | B   | 13.5                   | B   |
| SR 39/Alexander Street Extension           | AM | 13.7                   | B   | 18.5                   | C   |
|  | PM | 16.7                   | C   | 21.0                   | C   |
| SR 39/Knights-Griffith Road                | AM | 13.9                   | B   | 16.3                   | C   |
|  | PM | 15.2                   | C   | 20.0                   | C   |
| SR 39/Zephyrhills Bypass                   | AM | 8.4                    | B   | 16.3                   | C   |
|  | PM | 7.4                    | B   | 16.2                   | C   |
| SR 39/US 301                               | AM | 17.7                   | C   | 14.3                   | B   |
|  | PM | 18.6                   | C   | 15.8                   | C   |
| Alexander St. Extension/<br>Sam Allen Road | AM | 19.8                   | C   | 21.9                   | C   |
|  | PM | 19.7                   | C   | 21.4                   | C   |



RESULTS OF YEAR 2010 AND 2020 INTERSECTION  
LOS ANALYSIS - NO BUILD ALTERNATIVE

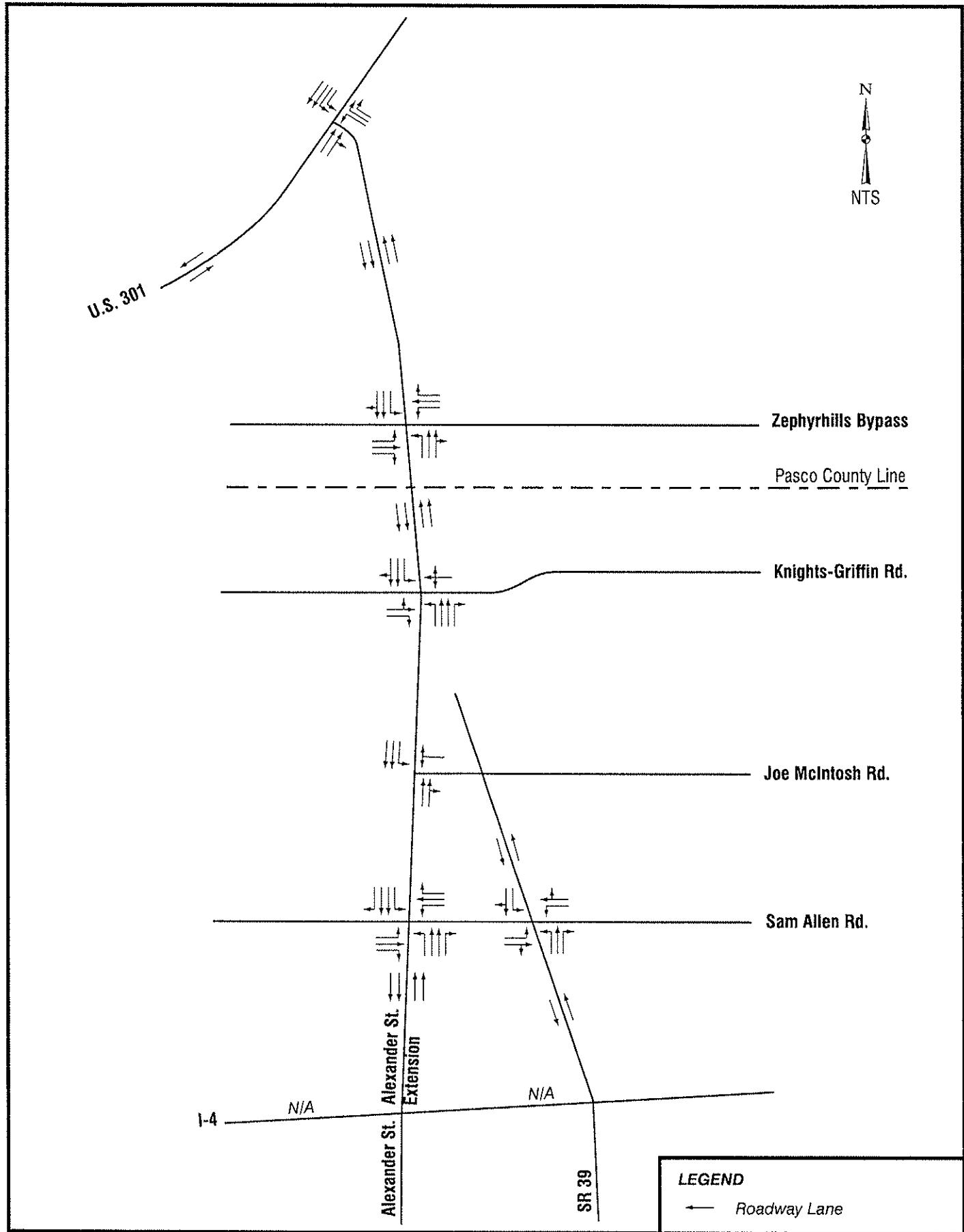
State Road 39 PD&E Study  
Project Traffic and Intersection  
Analysis Technical Memorandum

FIGURE  
19

## **RECOMMENDED IMPROVEMENTS**

The level of service analysis indicates the need for a four-lane facility on the Alexander Street Extension - SR 39 alignment, from north of I-4 to US 301, to achieve level of Service C for projected year 2020 design hour traffic volumes.

Figure 21 identifies the number and type of lanes required at each of the six major intersections within the project to achieve level of Service C for projected year 2020 design hour traffic volumes.



## APPENDIX A

- 1996 AADT VOLUMES
- FORECASTED 2005 AND 2020 AADT VOLUMES
- DESIGN TRAFFIC DATA (K, D, T)

st3gadj.wk4

| No                | Build             | SR 39 | 2 Lanes | T      | 1996   | 2005   | 2020   |
|-------------------|-------------------|-------|---------|--------|--------|--------|--------|
| From              |                   | To    | %       | AADT   | AADT   | AADT   | AADT   |
| I-4               | Sam Allen         | 16    | 12,400  | 16,800 | 24,000 | 33,000 | 44,000 |
| Sam Allen         | Knights-Griffin   | 16    | 9,400   | 11,900 | 18,800 | 26,000 | 34,000 |
| Knights-Griffin   | Pasco County L.   | 14    | 8,000   | 10,400 | 16,500 | 22,000 | 28,000 |
| Pasco County L.   | Zepherhill Bypass | 10    |         | 11,500 | 18,000 | 25,000 | 32,000 |
| Zepherhill Bypass | US 301            | 8     |         | 10,500 | 16,000 | 23,000 | 30,000 |
| US 301            | 'N of US 301      | 8     | 17,300  | 21,100 | 33,500 | 45,000 | 55,000 |

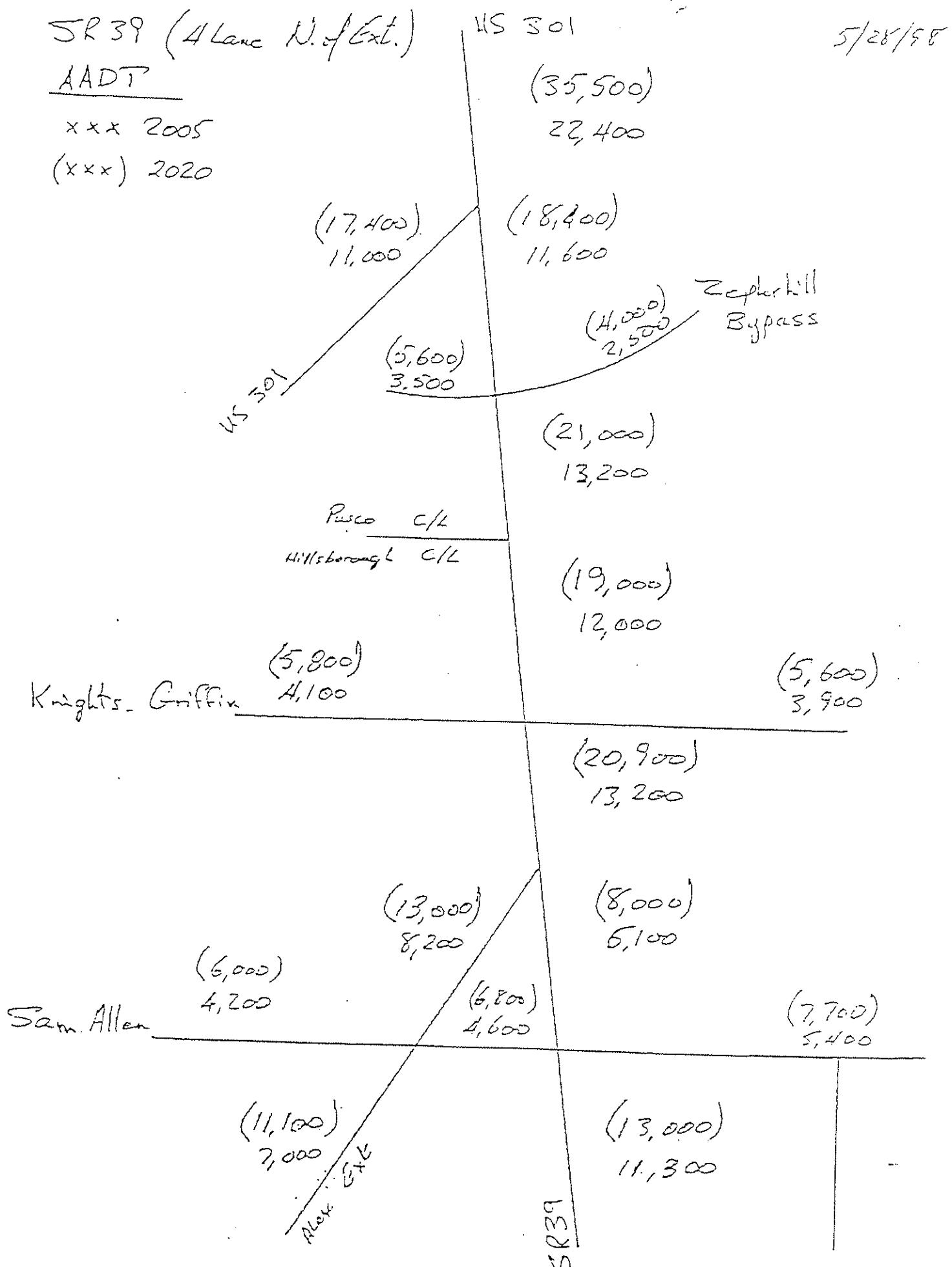
## Build SR 39

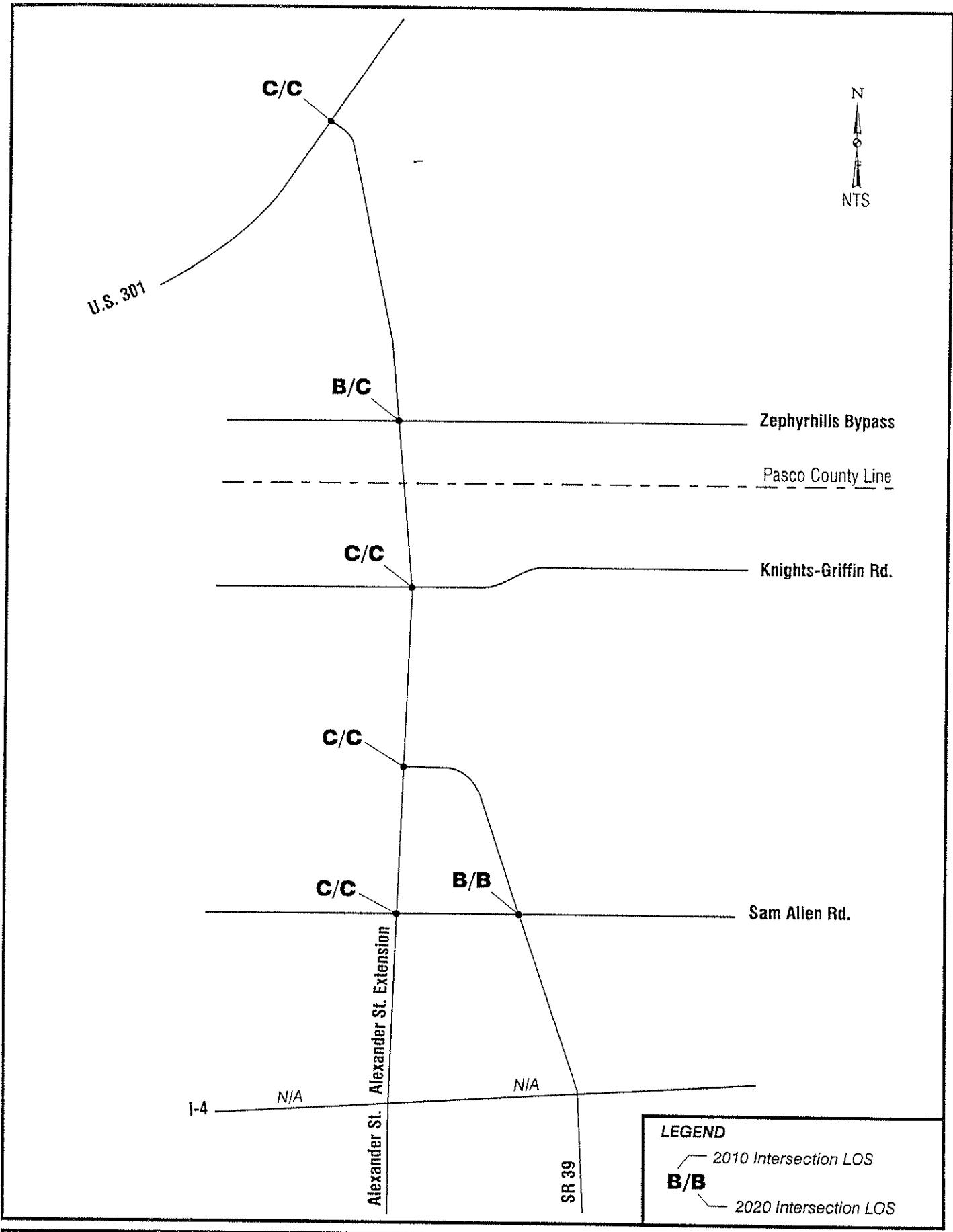
| No                | Build             | SR 39 4 Lane N of Ext | T      | 1996   | 2005   | 2020   |
|-------------------|-------------------|-----------------------|--------|--------|--------|--------|
| From              |                   | To                    | %      | AADT   | AADT   | AADT   |
| I-4               | Sam Allen         | 4                     | 12,400 | 11,300 | 13,000 | 14,000 |
| Sam Allen         | Alexander Ext     | 4                     | 9,400  | 5,000  | 8,000  | 10,000 |
| Alexander Ext     | Knights-Griffin   | 16                    | 9,400  | 13,200 | 20,900 | 29,000 |
| Knights-Griffin   | Pasco County L.   | 14                    | 8,000  | 12,000 | 19,000 | 26,000 |
| Pasco County L.   | Zepherhill Bypass | 10                    |        | 13,200 | 21,000 | 29,000 |
| Zepherhill Bypass | US 301            | 8                     |        | 11,600 | 18,400 | 26,000 |
| US 301            | 'N of US 301      | 8                     | 17,300 | 22,400 | 35,500 | 48,000 |

## Build SR 39

| No Build Side Streets |            | SR 39 2 Lane |       | 1996   |        | 2005   |        | 2020   |        |
|-----------------------|------------|--------------|-------|--------|--------|--------|--------|--------|--------|
| Side Streets          | At         | Side Streets | At    | %      | AADT   | %      | AADT   | %      | AADT   |
| Sam allen             | E of SR 39 | 6            | 4,000 | 5,400  | 7,700  | 10,000 | 14,000 | 17,400 | 20,000 |
| Knights Griffin Rd    | W of SR 39 | 6            | 3,100 | 4,200  | 6,000  | 8,000  | 11,000 | 13,000 | 15,000 |
| Zepherhill Bypass     | E of SR 39 | 6            | 3,000 | 4,100  | 5,800  | 7,800  | 10,000 | 12,000 | 14,000 |
| US 301                | W of SR 39 | 8            | 8,000 | 11,900 | 17,000 | 20,000 | 23,000 | 26,000 | 28,000 |

| No Build Side Streets |            | SR 39 4 Lane |       | 1996   |        | 2005   |        | 2020   |        |
|-----------------------|------------|--------------|-------|--------|--------|--------|--------|--------|--------|
| Side Streets          | At         | Side Streets | At    | %      | AADT   | %      | AADT   | %      | AADT   |
| Sam allen             | E of SR 39 | 6            | 4,000 | 5,400  | 7,700  | 10,000 | 14,000 | 17,400 | 20,000 |
| W of SR 39            | 6          | 4,000        | 5,400 | 7,700  | 10,000 | 14,000 | 17,400 | 20,000 | 22,000 |
| W of Alexru           | 6          | 3,100        | 4,200 | 6,000  | 8,000  | 11,000 | 13,000 | 15,000 | 17,000 |
| Alexander Ext         | S of SR 39 | 14           |       |        |        |        |        |        |        |
| S of Sam Ali          | 14         |              |       |        |        |        |        |        |        |
| Knights Griffin Rd    | W of SR 39 | 6            | 3,000 | 4,100  | 5,800  | 7,800  | 10,000 | 12,000 | 14,000 |
| E of SR 39            | 6          | 2,900        | 3,900 | 5,600  | 7,600  | 9,600  | 11,600 | 13,600 | 15,600 |
| Zepherhill Bypass     | W of SR 39 | 6            |       |        |        |        |        |        |        |
| E of SR 39            | 6          |              |       |        |        |        |        |        |        |
| US 301                | W of SR 39 | 8            | 8,000 | 11,000 | 17,400 | 20,000 | 23,000 | 26,000 | 28,000 |

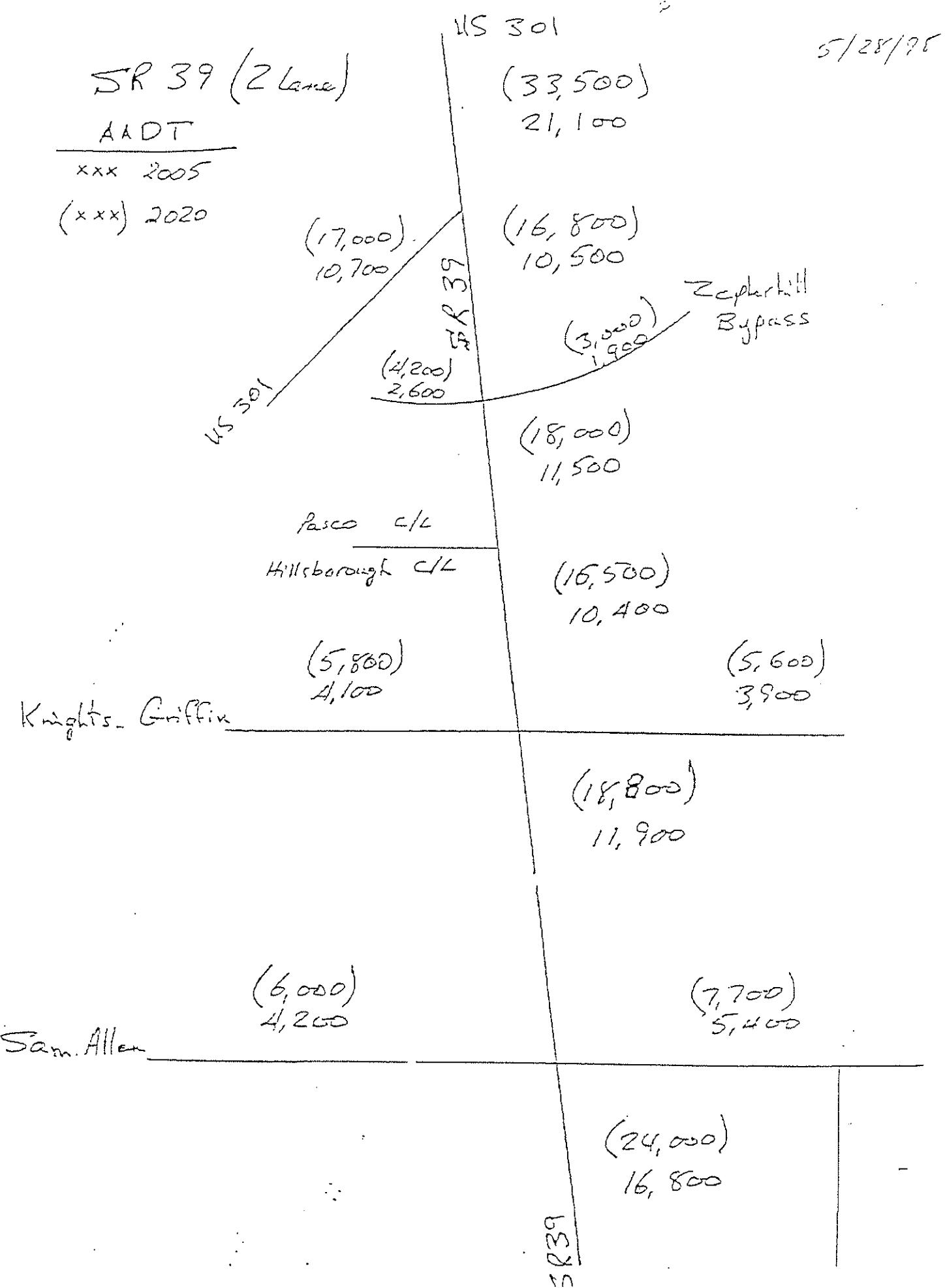




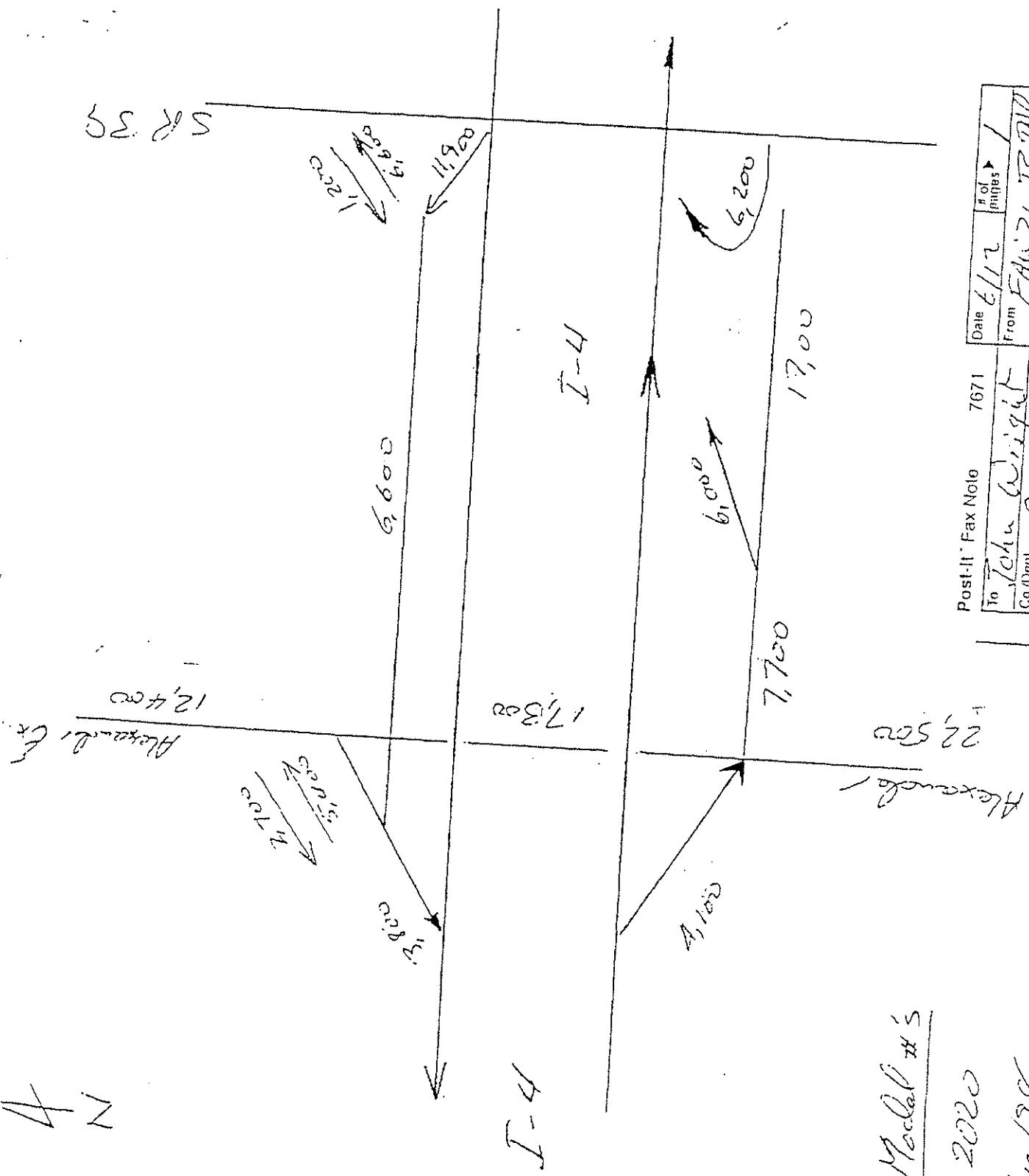
RESULTS OF YEAR 2010 AND 2020 INTERSECTION  
LOS ANALYSIS - BUILD ALTERNATIVE

State Road 39 PD&E Study  
Project Traffic and Intersection  
Analysis Technical Memorandum

FIGURE  
20



55. 25



Raw Macallan's

XXX - 2020

6/12/98

|                         |                    |               |                 |
|-------------------------|--------------------|---------------|-----------------|
| Post-It Fax Note        | 7671               | Date 6/12     | # of<br>Pages 1 |
| To <u>Richie Wright</u> | From <u>FAX 21</u> | <u>75.77K</u> |                 |
| Co./Dept. <u>DST</u>    | Co. <u>DST</u>     |               |                 |
| Phone #                 | Phone #            |               |                 |
| Fax #                   | <u>289-4405</u>    | Fax #         |                 |

APPENDIX B

INTERSECTION TURNING MOVEMENT COUNT SUMMARY SHEETS

weather : PT.CLOUDY  
Counter :  
GEORGZ R HILL  
SEB SEPERATE TRUCK/BUS MOVEMENT SHTS.

Traffic Counting Equipment & Supplies  
2031 Stout Drive, Suite 4  
Ivyland, PA 18974

Site Code : 000141\*\*  
Start Date: 09/21/  
File I.D. : 301eSRJ  
Page : 1

### Vehicle group 1

| US 301<br>Southbound   |       |       |       |   | SR 39<br>Westbound |      |       |       |   | US 301<br>Northbound |      |       |       |   | SR 39<br>Eastbound |      |       |       |   | Total |
|------------------------|-------|-------|-------|---|--------------------|------|-------|-------|---|----------------------|------|-------|-------|---|--------------------|------|-------|-------|---|-------|
| Left                   | Thru  | Right | Other |   | Left               | Thru | Right | Other |   | Left                 | Thru | Right | Other |   | Left               | Thru | Right | Other |   | Total |
| Date 09/21/98          | ----- |       |       |   |                    |      |       |       |   |                      |      |       |       |   |                    |      |       |       |   |       |
| 06:00                  | 47    | 84    | 0     | 0 |                    | 0    | 29    | 0     | 0 |                      | 0    | 10    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 17    |
| 06:15                  | 62    | 100   | 0     | 0 |                    | 0    | 21    | 0     | 0 |                      | 0    | 32    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 215   |
| 06:30                  | 60    | 75    | 0     | 0 |                    | 0    | 36    | 0     | 0 |                      | 0    | 17    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 18    |
| 06:45                  | 68    | 100   | 0     | 0 |                    | 0    | 32    | 0     | 0 |                      | 0    | 36    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 23    |
| Hr Total               | 237   | 359   | 0     | 0 |                    | 0    | 118   | 0     | 0 |                      | 0    | 95    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 809   |
| 07:00                  | 41    | 94    | 0     | 0 |                    | 0    | 34    | 0     | 0 |                      | 0    | 52    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 22    |
| 07:15                  | 40    | 149   | 0     | 0 |                    | 0    | 51    | 0     | 0 |                      | 0    | 46    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 28    |
| 07:30                  | 61    | 96    | 0     | 0 |                    | 0    | 39    | 0     | 0 |                      | 0    | 57    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 253   |
| 07:45                  | 32    | 61    | 0     | 0 |                    | 0    | 48    | 0     | 0 |                      | 0    | 58    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 19    |
| Hr Total               | 174   | 400   | 0     | 0 |                    | 0    | 172   | 0     | 0 |                      | 0    | 213   | 0     | 0 |                    | 0    | 0     | 0     | 0 | 951   |
| 08:00                  | 41    | 59    | 0     | 0 |                    | 0    | 32    | 0     | 0 |                      | 0    | 50    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 187   |
| 08:15                  | 45    | 58    | 0     | 0 |                    | 0    | 47    | 0     | 0 |                      | 0    | 52    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 201   |
| 08:30                  | 40    | 53    | 0     | 0 |                    | 0    | 47    | 0     | 0 |                      | 0    | 44    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 184   |
| 08:45                  | 30    | 66    | 0     | 0 |                    | 0    | 47    | 0     | 0 |                      | 0    | 54    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 197   |
| Hr Total               | 156   | 236   | 0     | 0 |                    | 0    | 173   | 0     | 0 |                      | 0    | 200   | 0     | 0 |                    | 0    | 0     | 0     | 0 | 765   |
| ----- * BREAK * -----  |       |       |       |   |                    |      |       |       |   |                      |      |       |       |   |                    |      |       |       |   |       |
| 1:00                   | 39    | 51    | 0     | 0 |                    | 0    | 32    | 0     | 0 |                      | 0    | 53    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 175   |
| 1:15                   | 50    | 68    | 0     | 0 |                    | 0    | 50    | 0     | 0 |                      | 0    | 51    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 219   |
| 1:30                   | 28    | 58    | 0     | 0 |                    | 0    | 52    | 0     | 0 |                      | 0    | 64    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 202   |
| 1:45                   | 52    | 50    | 0     | 0 |                    | 0    | 55    | 1     | 0 |                      | 0    | 62    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 220   |
| Hr Total               | 169   | 227   | 0     | 0 |                    | 0    | 189   | 1     | 0 |                      | 0    | 230   | 0     | 0 |                    | 0    | 0     | 0     | 0 | 816   |
| 2:00                   | 45    | 74    | 0     | 0 |                    | 0    | 56    | 0     | 0 |                      | 0    | 55    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 231   |
| 2:15                   | 54    | 63    | 0     | 0 |                    | 0    | 47    | 0     | 0 |                      | 0    | 46    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 210   |
| 2:30                   | 56    | 66    | 0     | 0 |                    | 0    | 38    | 0     | 0 |                      | 0    | 57    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 217   |
| 2:45                   | 45    | 62    | 0     | 0 |                    | 0    | 50    | 0     | 0 |                      | 0    | 53    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 210   |
| Hr Total               | 201   | 265   | 0     | 0 |                    | 0    | 191   | 0     | 0 |                      | 0    | 211   | 0     | 0 |                    | 0    | 0     | 0     | 0 | 866   |
| ----- * BBREAK * ----- |       |       |       |   |                    |      |       |       |   |                      |      |       |       |   |                    |      |       |       |   |       |
| 5:00                   | 47    | 67    | 0     | 0 |                    | 0    | 49    | 0     | 0 |                      | 0    | 75    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 238   |
| 5:15                   | 55    | 80    | 0     | 0 |                    | 0    | 53    | 0     | 0 |                      | 0    | 69    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 257   |
| 5:30                   | 65    | 62    | 0     | 0 |                    | 0    | 78    | 0     | 0 |                      | 0    | 86    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 291   |
| 5:45                   | 55    | 58    | 0     | 0 |                    | 0    | 61    | 2     | 0 |                      | 0    | 79    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 255   |
| Total                  | 222   | 267   | 0     | 0 |                    | 0    | 241   | 2     | 0 |                      | 0    | 309   | 0     | 0 |                    | 0    | 0     | 0     | 0 | 1041  |
| :00                    | 43    | 66    | 0     | 0 |                    | 0    | 57    | 0     | 0 |                      | 0    | 102   | 0     | 0 |                    | 0    | 0     | 0     | 0 | 268   |
| :15                    | 60    | 85    | 0     | 0 |                    | 0    | 65    | 0     | 0 |                      | 0    | 98    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 308   |
| :30                    | 39    | 64    | 0     | 0 |                    | 0    | 56    | 0     | 0 |                      | 0    | 95    | 0     | 0 |                    | 0    | 0     | 0     | 0 | 254   |
| :45                    | 56    | 76    | 0     | 0 |                    | 0    | 50    | 0     | 0 |                      | 0    | 103   | 0     | 0 |                    | 0    | 0     | 0     | 0 | 285   |
| Total                  | 198   | 291   | 0     | 0 |                    | 0    | 228   | 0     | 0 |                      | 0    | 398   | 0     | 0 |                    | 0    | 0     | 0     | 0 | 1115  |

Weather :pt.CLOUDY

Counter :

GEORGE R HILL

SSE SEPERATE TRUCK/BUS MOVEMENT SHTS.

Traffic Counting Equipment & Supplies  
 2031 Stout Drive, Suite 4  
 Ivyland, PA 18974

Site Code : 00014110

Start Date: 09/21/98

File I.D. : 301eSR39

Page : 2

## Vehicle group 1

| US 301        |      |      |       | SR 39     |  |      |      | US 301     |       |  |      | SR 39     |       |       |  |       |
|---------------|------|------|-------|-----------|--|------|------|------------|-------|--|------|-----------|-------|-------|--|-------|
| Southbound    |      |      |       | Westbound |  |      |      | Northbound |       |  |      | Eastbound |       |       |  |       |
|               | Left | Thru | Right | Other     |  | Left | Thru | Right      | Other |  | Left | Thru      | Right | Other |  | Total |
| Date 09/21/98 |      |      |       |           |  |      |      |            |       |  |      |           |       |       |  |       |
| 17:00         | 54   | 73   | 0     | 0         |  | 0    | 60   | 0          | 0     |  | 0    | 114       | 0     | 0     |  | 301   |
| 17:15         | 61   | 69   | 0     | 0         |  | 0    | 84   | 0          | 0     |  | 0    | 105       | 0     | 0     |  | 319   |
| 17:30         | 63   | 62   | 0     | 0         |  | 0    | 64   | 0          | 0     |  | 0    | 111       | 0     | 0     |  | 300   |
| 17:45         | 62   | 68   | 0     | 0         |  | 0    | 60   | 0          | 0     |  | 0    | 133       | 0     | 0     |  | 323   |
| Hr Total      | 240  | 272  | 0     | 0         |  | 0    | 268  | 0          | 0     |  | 0    | 463       | 0     | 0     |  | 1243  |
| *TOTAL*       | 1597 | 2317 | 0     | 0         |  | 0    | 1580 | 3          | 0     |  | 0    | 2119      | 0     | 0     |  | 7616  |

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

SHT 1 o 98

LOCATION I.D. NS US 301 EW SR 39  
 COUNTY PASCO CITY ZEPHER HILLS  
 DATE 9-21-98 TIME: FROM 6:00 TO 7:00  
 OBSERVER GEORGE R HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

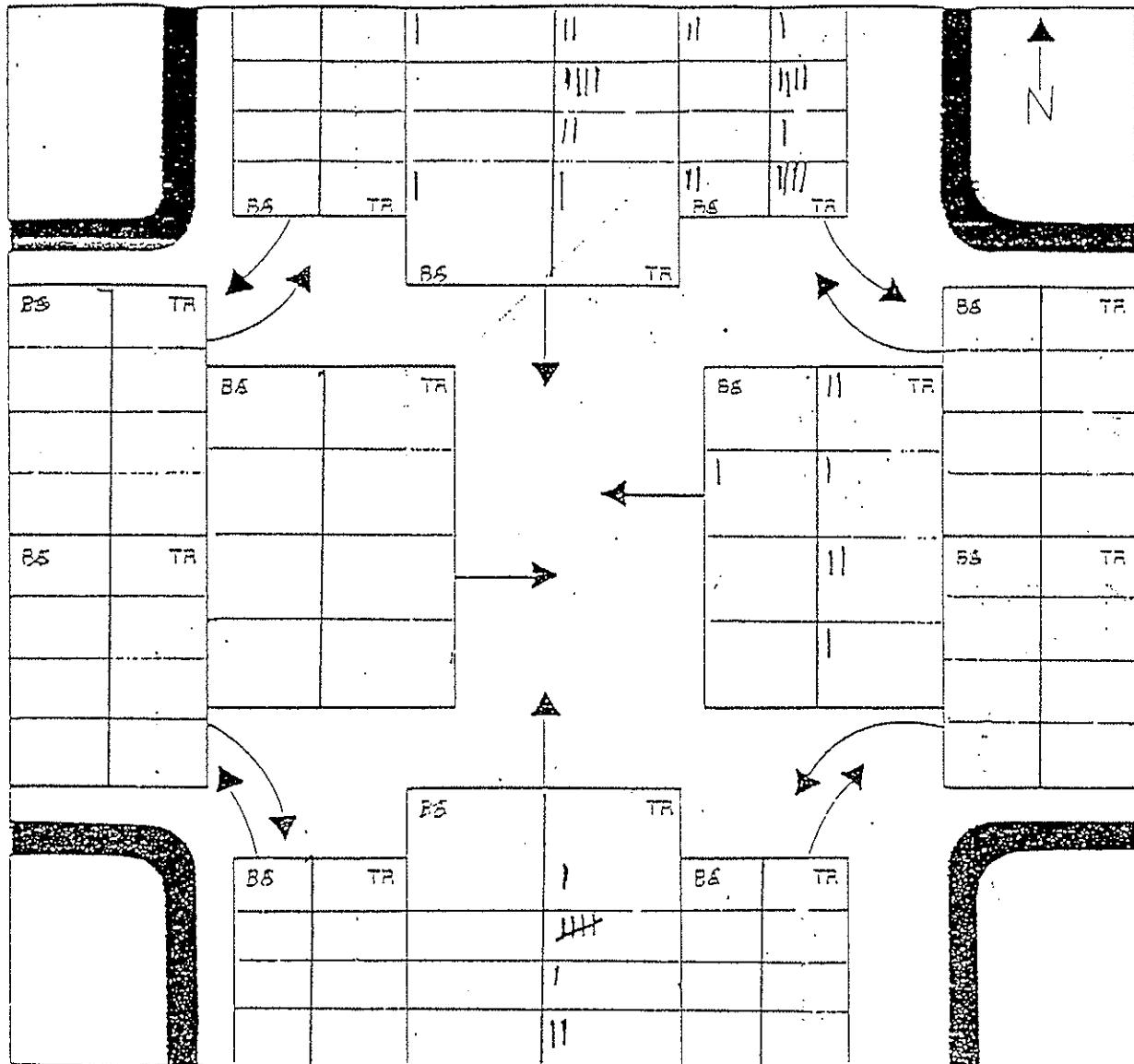


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

SHT 2 OF 2

LOCATION I.D. NS US 301 EW SR 39  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-21-98 TIME FROM 7:00 TO 8:00  
 OBSERVER GEORGE R Hill WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

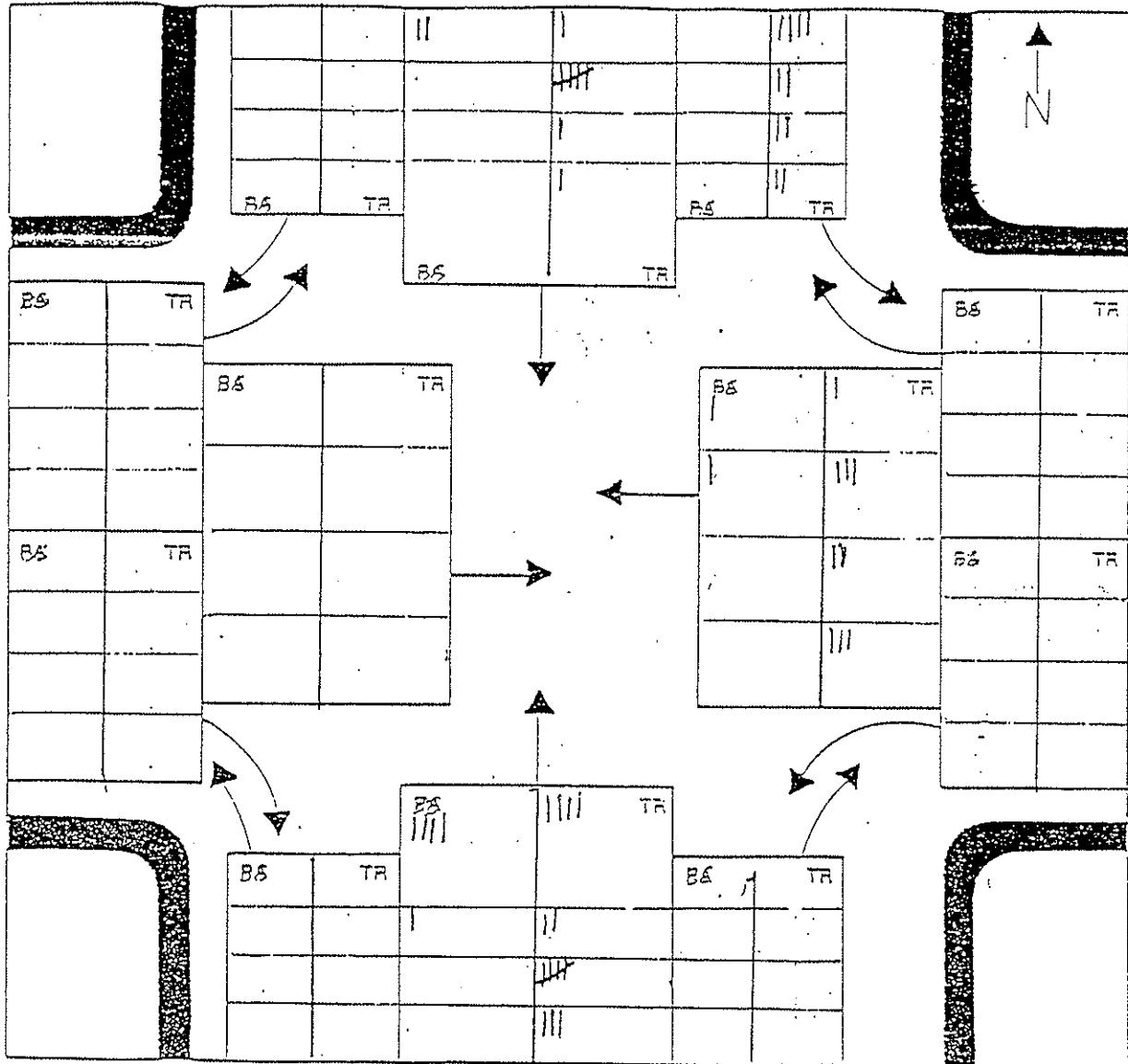
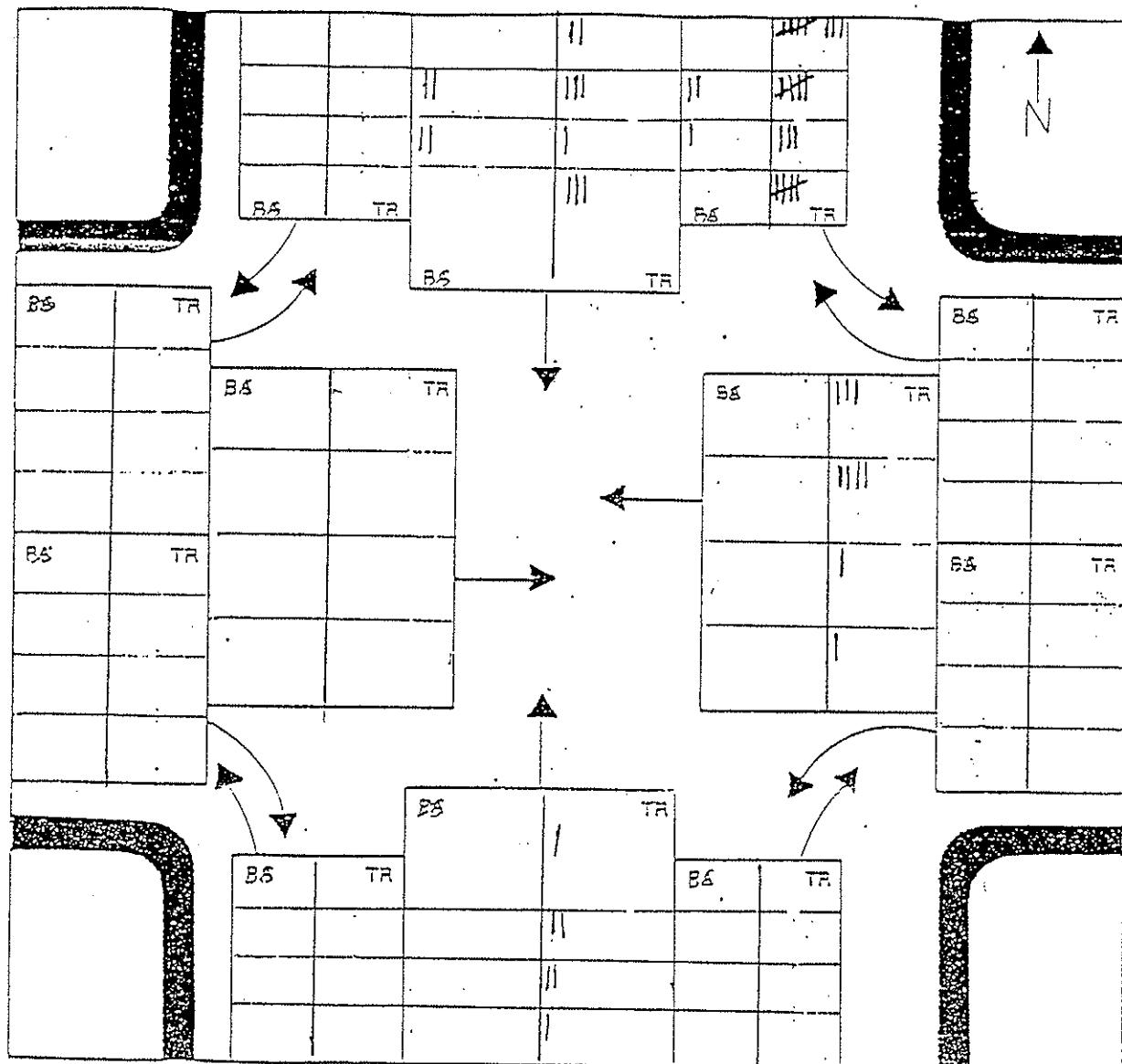


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

SHT 3 of 3

LOCATION I.D. NS US301 EW SR39  
COUNTY PASCO CITY ZEDHERHILLS  
DATE 9-21-98 TIME FROM 8:00 TO 9:00  
OBSERVER GEORGE R HILL WEATHER \_\_\_\_\_  
REMARKS \_\_\_\_\_



**FIGURE 2-5**  
**VEHICLE MOVEMENT DATA FORM**  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

SHT. 4 OF 8

LOCATION I.D. NS US 301 EW SR 39  
 COUNTY PASCO CITY ZEPHERHILL  
 DATE 9-21-98 TIME: FROM 11:00 TO 12:00  
 OBSERVER GEORGE R HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

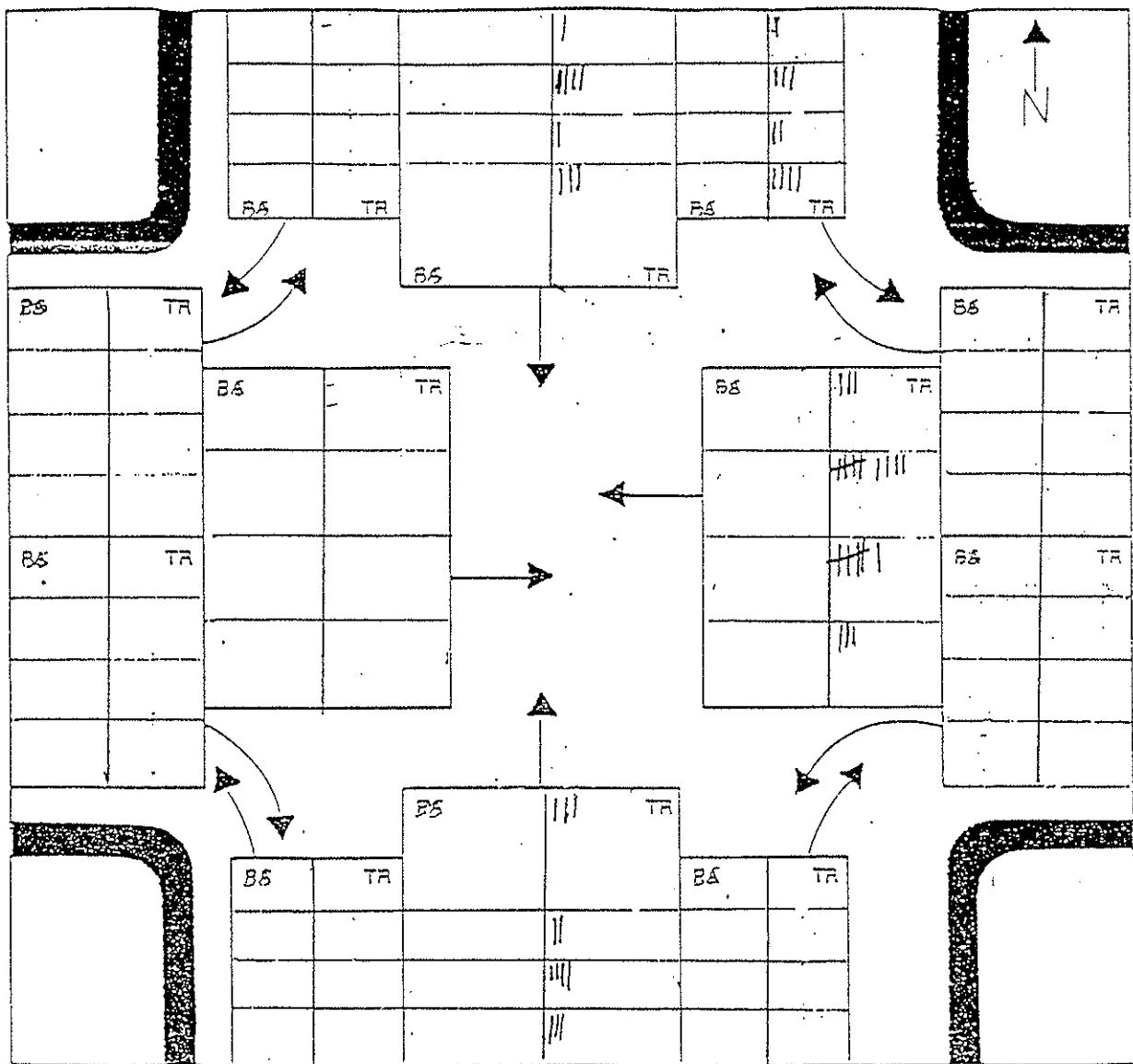


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

5475053

LOCATION I.D. NS 45301 EW SR39  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-21-98 TIME FROM 12:00 TO 13:00  
 OBSERVER GEORGE R HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

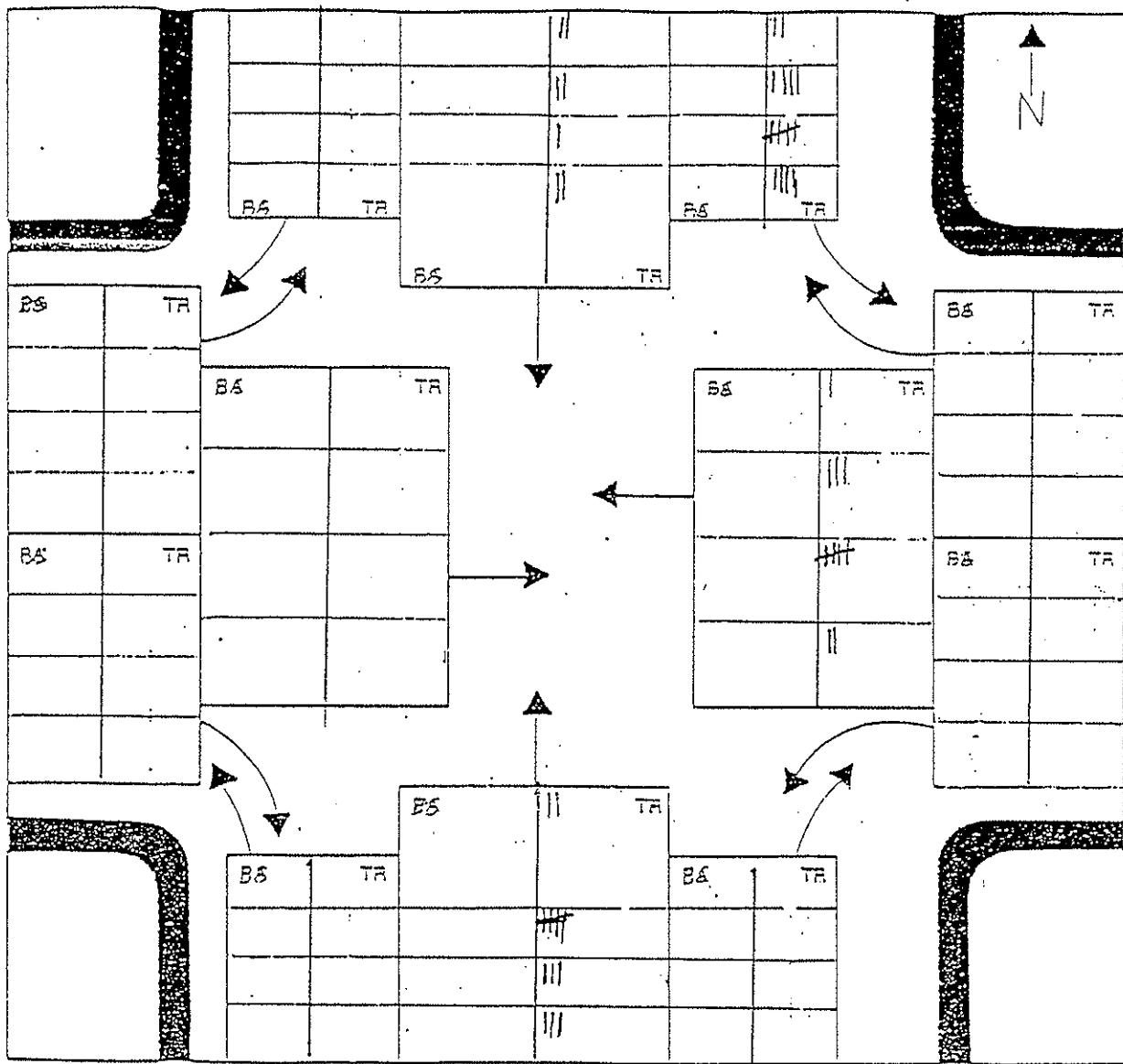


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

100-0018

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS U5301 EW SR39  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-21-98 TIME: FROM 1500 TO 1600  
 OBSERVER GEORGE R HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

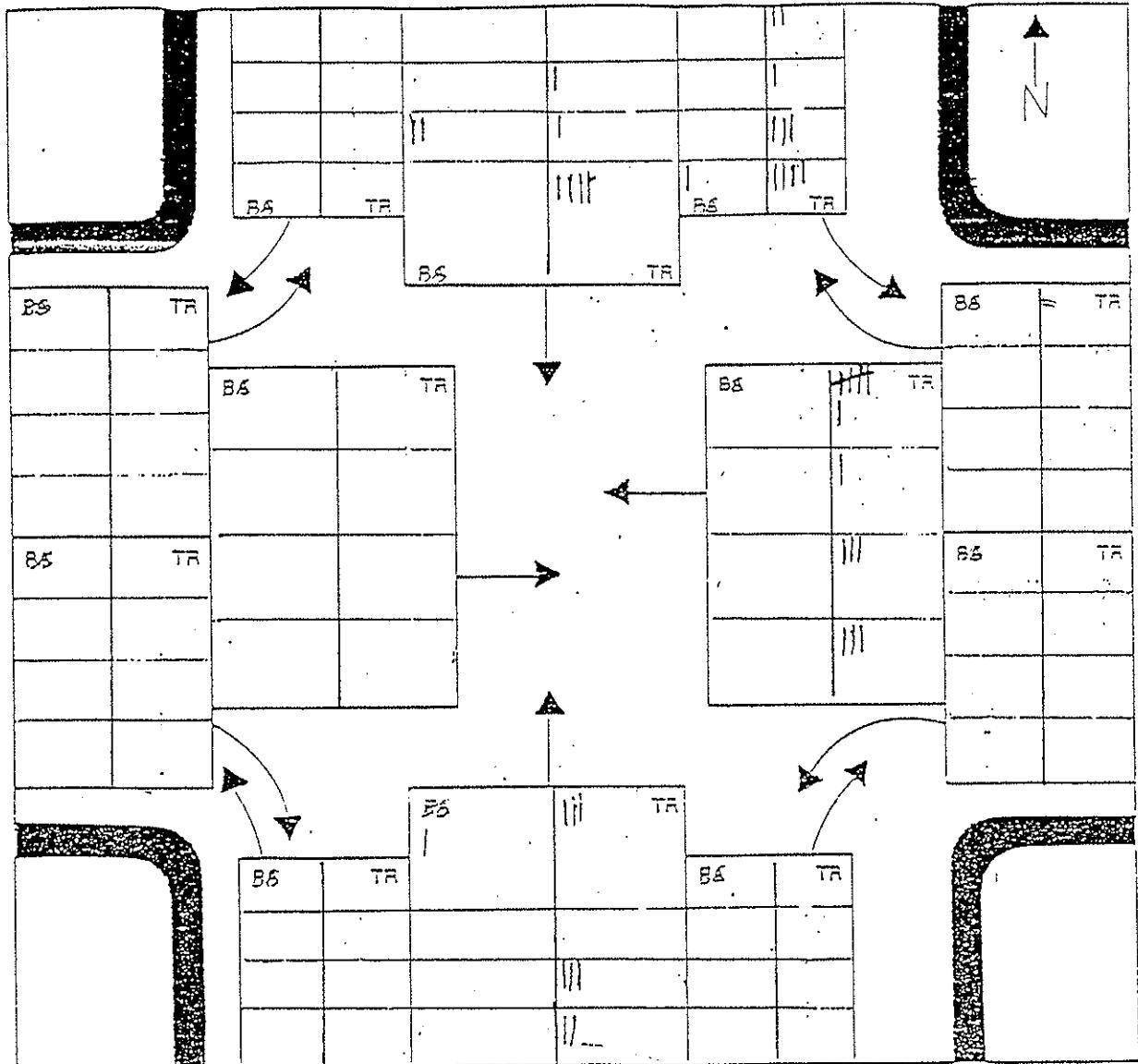


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

SHT. 70 F8

LOCATION I.D. NS US 301 EW SR 39  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-21-98 TIME FROM 16:00 TO 1700  
 OBSERVER GEORGE R HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

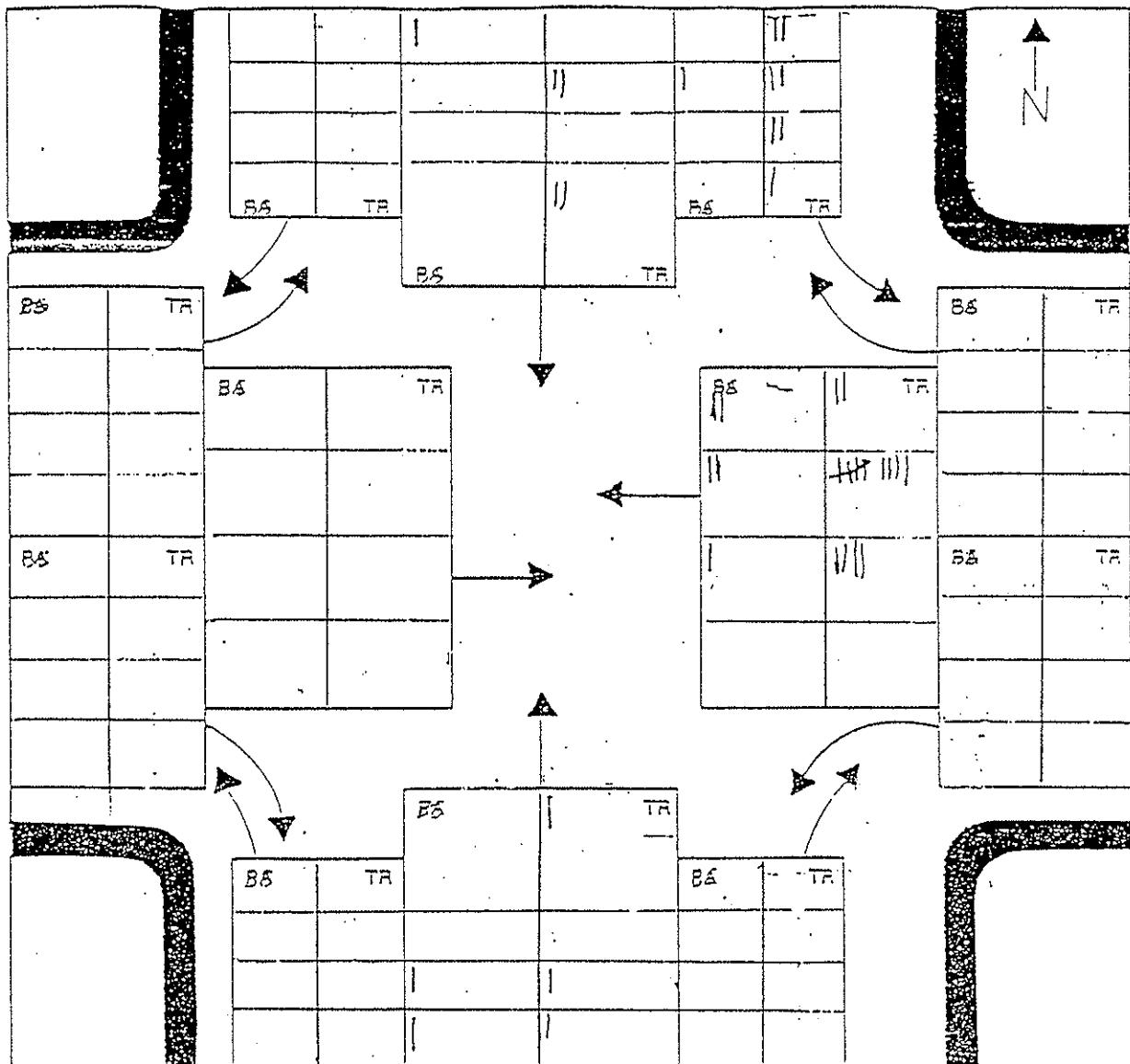


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS US 301 EW SR 39  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-21-98 TIME FROM 1700 TO 1800  
 OBSERVER GEORGE R Hill WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

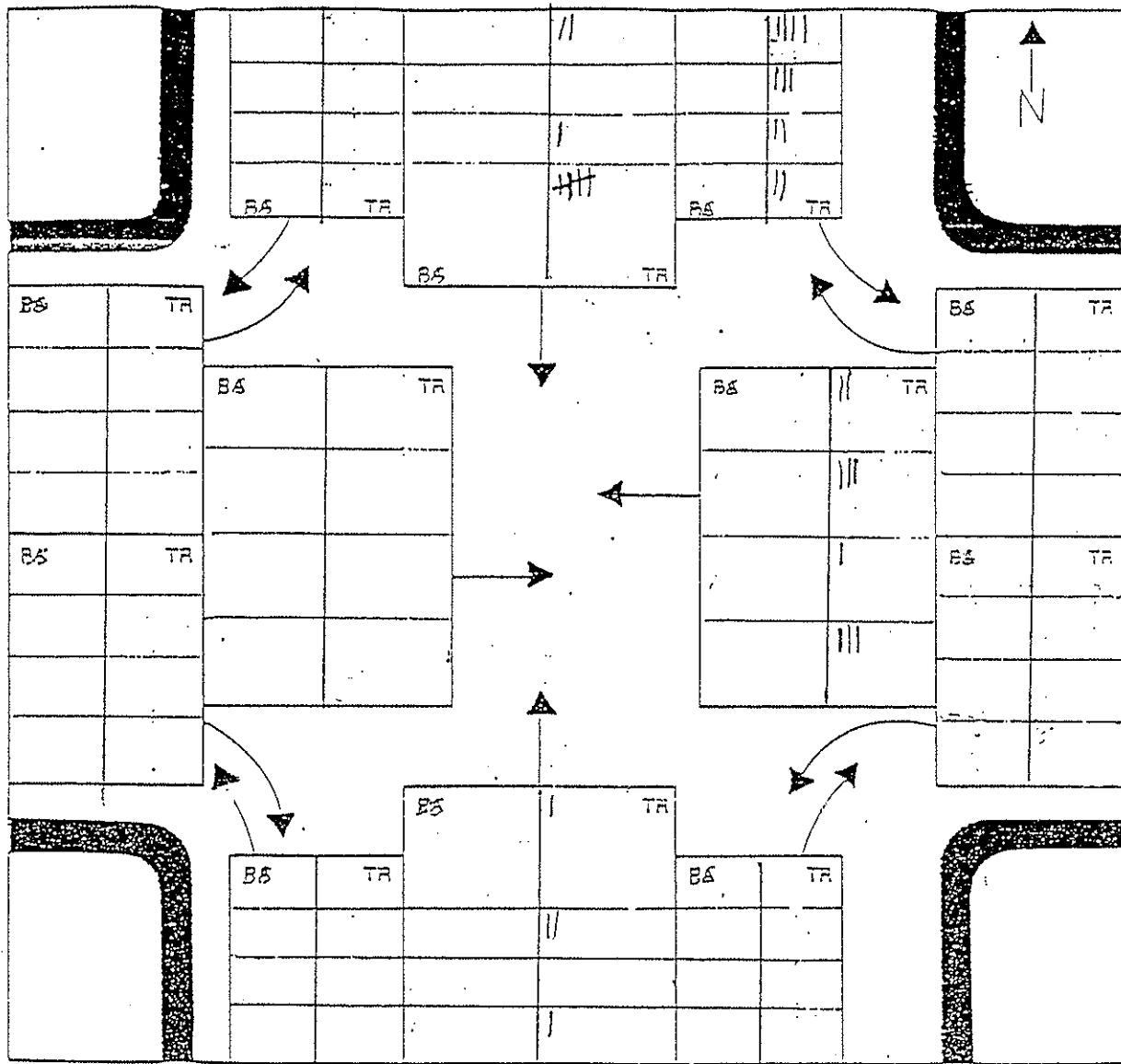


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. SR 39 @ US 301COUNTY PASCO CITY Z-Hills TYPE OF CONTROL \_\_\_\_\_STUDY DATE 9-21-98 TIME: FROM 6:00 AM TO 12:00 PM OBSERVER GRHREMARKS PEDESTRIAN & BIKE COUNTS

| 6-7 7-8 8-9 11-12 |   |   |   |
|-------------------|---|---|---|
| P                 | 0 | 0 | 0 |
| B                 | 0 | 0 | 0 |
| TOTALS            | 0 | 0 | 0 |

TIME PERIODS  
DISTANCE FT.  
RAISED MEDIAN  YES  NO

| 6-7 7-8 8-9 11-12 |   |   |   |
|-------------------|---|---|---|
| P                 | 0 | 0 | 0 |
| B                 | 0 | 0 | 0 |
| TOTALS            | 0 | 0 | 0 |

| P        | 0   | 0 | 0 |
|----------|-----|---|---|
| B        | 0   | 0 | 0 |
| TOTALS   | 0   | 1 | 1 |
| DISTANCE | FT. |   |   |

RAISED MEDIAN  YES  NO

| P        | 1   | 1 | 0 |
|----------|-----|---|---|
| B        | 0   | 1 | 0 |
| TOTALS   | 0   | 0 | 0 |
| DISTANCE | FT. |   |   |

STREET  
SR 39

| P        | 0   | 0 | 0 |
|----------|-----|---|---|
| B        | 0   | 0 | 1 |
| TOTALS   | 0   | 0 | 1 |
| DISTANCE | FT. |   |   |

DISTANCE FT.  
RAISED MEDIAN  YES  NO

| P        | 0   | 0 | 0 |
|----------|-----|---|---|
| B        | 0   | 0 | 0 |
| TOTALS   | 0   | 0 | 0 |
| DISTANCE | FT. |   |   |

| P        | 0   | 0 | 0 |
|----------|-----|---|---|
| B        | 0   | 0 | 0 |
| TOTALS   | 0   | 0 | 0 |
| DISTANCE | FT. |   |   |

DISTANCE FT.  
RAISED MEDIAN  YES  NO

| P        | 0   | 0 | 0 |
|----------|-----|---|---|
| B        | 0   | 0 | 0 |
| TOTALS   | 0   | 0 | 0 |
| DISTANCE | FT. |   |   |

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. SR 39 C US 301COUNTY PASCO CITY Z-HILLS TYPE OF CONTROL \_\_\_\_\_STUDY DATE 9-21-98 TIME: FROM 12:00 AM TO 6:00 AM OBSERVER GRHREMARKS PEDESTRIAN & BIKE COUNTS

|   |     | TIME PERIODS |     |     |     |
|---|-----|--------------|-----|-----|-----|
|   |     | 12-1         | 3-4 | 4-5 | 5-6 |
| P | FT. | 0            | 0   | 0   | 0   |
|   | FT. | 0            | 0   | 0   | 0   |
| B | FT. | 0            | 0   | 0   | 0   |
|   | FT. | 0            | 0   | 0   | 0   |

DISTANCE FT.  
RAISED MEDIAN  YES  NO  
TOTALS

|   |     | TIME PERIODS |     |     |     |
|---|-----|--------------|-----|-----|-----|
|   |     | 12-1         | 3-4 | 4-5 | 5-6 |
| P | FT. | 0            | 0   | 0   | 0   |
|   | FT. | 0            | 0   | 0   | 0   |
| B | FT. | 0            | 0   | 0   | 0   |
|   | FT. | 0            | 0   | 0   | 0   |

|   |     | TIME PERIODS |     |     |     |
|---|-----|--------------|-----|-----|-----|
|   |     | 12-1         | 3-4 | 4-5 | 5-6 |
| P | FT. | 0            | 0   | 6   | 0   |
|   | FT. | 0            | 0   | 6   | 0   |
| B | FT. | 0            | 0   | 11  | 1   |
|   | FT. | 0            | 0   | 11  | 1   |

TOTALS

|   |     | TIME PERIODS |     |     |     |
|---|-----|--------------|-----|-----|-----|
|   |     | 12-1         | 3-4 | 4-5 | 5-6 |
| P | FT. | 0            | 1   | 0   | 0   |
|   | FT. | 0            | 1   | 0   | 0   |
| B | FT. | 0            | 0   | 0   | 1   |
|   | FT. | 0            | 0   | 0   | 1   |

DISTANCE FT.  
RAISED MEDIAN  YES  NO  
SR 39  
STREET

|   |     | TIME PERIODS |     |     |     |
|---|-----|--------------|-----|-----|-----|
|   |     | 12-1         | 3-4 | 4-5 | 5-6 |
| P | FT. | 0            | 0   | 11  | 0   |
|   | FT. | 0            | 0   | 11  | 0   |
| B | FT. | 0            | 0   | 1   | 11  |
|   | FT. | 0            | 0   | 1   | 11  |

TOTALS

|   |     | TIME PERIODS |     |     |     |
|---|-----|--------------|-----|-----|-----|
|   |     | 12-1         | 3-4 | 4-5 | 5-6 |
| P | FT. | 0            | 0   | 11  | 0   |
|   | FT. | 0            | 0   | 11  | 0   |
| B | FT. | 0            | 1   | 0   | 1   |
|   | FT. | 0            | 1   | 0   | 1   |

DISTANCE FT.  
RAISED MEDIAN  YES  NO  
TOTALS

|   |     | TIME PERIODS |     |     |     |
|---|-----|--------------|-----|-----|-----|
|   |     | 12-1         | 3-4 | 4-5 | 5-6 |
| P | FT. | 0            | 0   | 0   | 0   |
|   | FT. | 0            | 0   | 0   | 0   |
| B | FT. | 0            | 0   | 0   | 0   |
|   | FT. | 0            | 0   | 0   | 0   |

|   |     | TIME PERIODS |     |     |     |
|---|-----|--------------|-----|-----|-----|
|   |     | 12-1         | 3-4 | 4-5 | 5-6 |
| P | FT. | 0            | 0   | 0   | 0   |
|   | FT. | 0            | 0   | 0   | 0   |
| B | FT. | 0            | 0   | 0   | 0   |
|   | FT. | 0            | 0   | 0   | 0   |

DISTRICT 7 *WORK COPY*  
 TRAFFIC OPERATIONS  
 REQUEST FORM

| IN OR N. S E. W. OF | WILE POST # | LOCAL STREET NAMES    | U S | S R | SECTION | LEG |
|---------------------|-------------|-----------------------|-----|-----|---------|-----|
| Z-HILLS             | 3.670       | SR 39 AT MICHIGAN AVE | —   | 39  | 14110   | —   |

TYPE OF STUDY: BARTMC 6-9, 11-1, 3-8 Ped & Bikes  
 COUNTY: PASCO  
 NOTE: SEPARATE BUSES & TRUCKS.

| SPEED ZONE | TRAFFIC SIGNAL | FLASHING BEACON | SCHOOL SPEED ZONE | UNAUTHORIZED TRAFFIC SIGNAL | DESIGN STUDY | REQUESTED BY: <u>Gabor</u>          | DATE: 9-16-98 |
|------------|----------------|-----------------|-------------------|-----------------------------|--------------|-------------------------------------|---------------|
|            |                |                 |                   |                             |              | PERFORMED BY: <u>George R. Hill</u> |               |
|            |                |                 |                   |                             |              | JOB #: _____                        |               |

\*\*STUDY\*\*

DATE:

|   |   |   |   |   |     |  |         |
|---|---|---|---|---|-----|--|---------|
| X | X | X | X | X |     | FIELD SKETCH                                 | 9/28/98 |
| 8 | 4 |   |   | 8 | (8) | TURNING MOVEMENTS (TO 501 OR 508)            | 9/28/98 |
| X | X | X | X |   |     | SPEED CHECK (TO 503 OR 506)                  |         |
| X | X |   |   |   | X   | TRAFFIC COUNTS (TO 510 OR 570)               |         |
| X | X |   |   |   |     | STOP SIGN OBSERVANCE (TO 518)                |         |
| X |   |   |   |   |     | STOP & DELAY (TO 507)                        |         |
|   |   |   |   | X |     | DRIVER OBSERVANCE OF TRAFFIC SIGNAL (TO 504) |         |
| X | X | X | X | X | (X) | PEDESTRIAN VOLUME (TO 502 OR 509)            | 9/28/98 |
|   |   |   |   |   |     | DELAY STUDY OF SIGNALIZED INTERSECTION       |         |
| X |   |   |   |   |     | LEFT TURN STUDY (TO 513)                     |         |
|   | X | X | X |   |     | OBSERVATION STUDY (TO 519)                   |         |

SPECIAL INSTRUCTIONS: SEE SEPARATE SHEETS FOR TRUCK & BUS

Movement And Ped./Bike Traffic

P.J. Gabor

Weather : cloudy

Counter :

GEORG R HILL

SEE SEPERATE SHTS. FOR TRUCK/BUS, PEDS.

## Traffic Counting Equipment &amp; Supplies

2031 Stout Drive, Suite 4

Ivyland, PA 18974

Site Code : 00014110

Start Date: 09/28/98

File I.D. : SR39aMIC

Page : 1

## Vehicle group 1

| SR 39<br>Southbound   |      |       |       | MICHIGAN RD<br>Westbound |      |       |       | SR 39<br>Northbound |      |       |       | MICHIGAN RD<br>Eastbound |      |       |       | Total |
|-----------------------|------|-------|-------|--------------------------|------|-------|-------|---------------------|------|-------|-------|--------------------------|------|-------|-------|-------|
| Left                  | Thru | Right | Other | Left                     | Thru | Right | Other | Left                | Thru | Right | Other | Left                     | Thru | Right | Other |       |
| Date 09/28/98         |      |       |       |                          |      |       |       |                     |      |       |       |                          |      |       |       |       |
| 6:00                  | 0    | 39    | 0     | 0                        | 0    | 0     | 0     | 1                   | 20   | 0     | 0     | 0                        | 0    | 0     | 0     | 60    |
| 6:15                  | 0    | 60    | 0     | 0                        | 2    | 0     | 0     | 1                   | 24   | 0     | 0     | 0                        | 1    | 4     | 0     | 92    |
| 6:30                  | 1    | 72    | 0     | 0                        | 2    | 1     | 0     | 0                   | 32   | 3     | 0     | 1                        | 0    | 1     | 0     | 113   |
| 6:45                  | 1    | 55    | 0     | 0                        | 1    | 0     | 0     | 0                   | 45   | 1     | 0     | 0                        | 1    | 2     | 0     | 106   |
| 7 Total               | 2    | 226   | 0     | 0                        | 5    | 1     | 0     | 0                   | 121  | 4     | 0     | 1                        | 2    | 7     | 0     | 371   |
| 7:00                  | 0    | 48    | 0     | 0                        | 0    | 2     | 0     | 0                   | 45   | 1     | 0     | 1                        | 0    | 0     | 0     | 97    |
| 7:15                  | 0    | 43    | 0     | 0                        | 0    | 0     | 0     | 2                   | 44   | 1     | 0     | 0                        | 0    | 0     | 0     | 90    |
| 7:30                  | 1    | 57    | 0     | 0                        | 1    | 0     | 0     | 1                   | 43   | 1     | 0     | 0                        | 0    | 2     | 0     | 106   |
| 7:45                  | 0    | 35    | 1     | 0                        | 0    | 1     | 1     | 1                   | 46   | 1     | 0     | 0                        | 0    | 1     | 0     | 87    |
| 8 Total               | 1    | 183   | 1     | 0                        | 1    | 3     | 1     | 0                   | 178  | 4     | 0     | 1                        | 0    | 3     | 0     | 380   |
| 8:00                  | 0    | 28    | 0     | 0                        | 0    | 0     | 1     | 0                   | 28   | 0     | 0     | 0                        | 0    | 0     | 0     | 53    |
| 8:15                  | 1    | 44    | 0     | 0                        | 0    | 2     | 0     | 0                   | 37   | 0     | 0     | 0                        | 0    | 1     | 0     | 86    |
| 8:30                  | 0    | 29    | 0     | 0                        | 1    | 0     | 0     | 1                   | 36   | 1     | 0     | 0                        | 1    | 2     | 0     | 71    |
| 8:45                  | 1    | 23    | 0     | 0                        | 2    | 0     | 2     | 1                   | 66   | 0     | 0     | 0                        | 0    | 1     | 0     | 95    |
| 9 Total               | 2    | 124   | 0     | 0                        | 3    | 2     | 3     | 0                   | 167  | 1     | 0     | 0                        | 1    | 4     | 0     | 311   |
| ----- * BREAK * ----- |      |       |       |                          |      |       |       |                     |      |       |       |                          |      |       |       |       |
| 1:00                  | 3    | 40    | 3     | 0                        | 0    | 1     | 3     | 0                   | 48   | 0     | 0     | 0                        | 0    | 0     | 0     | 99    |
| 1:15                  | 3    | 46    | 0     | 0                        | 1    | 3     | 1     | 0                   | 42   | 2     | 0     | 2                        | 2    | 1     | 0     | 104   |
| 1:30                  | 1    | 33    | 1     | 0                        | 0    | 2     | 4     | 0                   | 45   | 1     | 0     | 2                        | 1    | 2     | 0     | 94    |
| 1:45                  | 1    | 41    | 0     | 0                        | 2    | 1     | 0     | 0                   | 51   | 0     | 0     | 0                        | 2    | 1     | 0     | 101   |
| 2 Total               | 8    | 160   | 4     | 0                        | 3    | 7     | 8     | 0                   | 186  | 3     | 0     | 4                        | 5    | 4     | 0     | 398   |
| 2:00                  | 0    | 52    | 0     | 0                        | 0    | 1     | 2     | 0                   | 64   | 2     | 0     | 0                        | 0    | 1     | 0     | 122   |
| 2:15                  | 3    | 52    | 0     | 0                        | 0    | 1     | 3     | 0                   | 50   | 0     | 0     | 1                        | 0    | 0     | 0     | 111   |
| 2:30                  | 1    | 39    | 0     | 0                        | 0    | 0     | 1     | 0                   | 34   | 0     | 0     | 0                        | 0    | 2     | 0     | 79    |
| 2:45                  | 2    | 40    | 1     | 0                        | 0    | 0     | 0     | 0                   | 39   | 0     | 0     | 1                        | 0    | 1     | 0     | 84    |
| 3 Total               | 6    | 183   | 1     | 0                        | 0    | 2     | 6     | 0                   | 187  | 2     | 0     | 2                        | 0    | 4     | 0     | 396   |
| ----- * BREAK * ----- |      |       |       |                          |      |       |       |                     |      |       |       |                          |      |       |       |       |
| 4:00                  | 1    | 49    | 1     | 0                        | 2    | 0     | 5     | 0                   | 50   | 0     | 0     | 1                        | 1    | 1     | 0     | 113   |
| 4:15                  | 3    | 36    | 0     | 0                        | 1    | 1     | 2     | 0                   | 51   | 1     | 0     | 0                        | 2    | 0     | 0     | 101   |
| 4:30                  | 1    | 47    | 0     | 0                        | 1    | 0     | 5     | 0                   | 70   | 2     | 0     | 2                        | 1    | 0     | 0     | 130   |
| 4:45                  | 0    | 54    | 0     | 0                        | 2    | 2     | 1     | 0                   | 58   | 0     | 0     | 0                        | 2    | 2     | 0     | 122   |
| Total                 | 5    | 186   | 1     | 0                        | 6    | 3     | 13    | 0                   | 229  | 3     | 0     | 3                        | 6    | 3     | 0     | 466   |
| 5:00                  | 6    | 46    | 1     | 0                        | 1    | 2     | 3     | 0                   | 47   | 1     | 0     | 0                        | 1    | 1     | 0     | 110   |
| 5:15                  | 1    | 43    | 0     | 0                        | 2    | 3     | 2     | 0                   | 56   | 1     | 0     | 0                        | 3    | 1     | 0     | 113   |
| 5:30                  | 1    | 48    | 0     | 0                        | 0    | 2     | 2     | 0                   | 59   | 1     | 0     | 0                        | 0    | 0     | 0     | 113   |
| 5:45                  | 1    | 50    | 0     | 0                        | 1    | 2     | 0     | 0                   | 69   | 0     | 0     | 0                        | 0    | 0     | 0     | 125   |
| Total                 | 9    | 187   | 1     | 0                        | 4    | 9     | 7     | 0                   | 231  | 3     | 0     | 0                        | 4    | 2     | 0     | 461   |

Weather : cloudy  
Counter :  
GEORGE R HILL  
SEE SEPERATE SHTS. FOR TRUCK/BUS, PEDS.

UAMAK TECHNOLOGIES, INC.  
Traffic Counting Equipment & Supplies  
2031 Stout Drive, Suite 4  
Ivyland, PA 18974

Site Code : 0001411  
Start Date: 09/28/9  
File I.D. : SR39@ML  
Page : 2

### Vehicle group 1

| SR 39<br>Southbound |       |      |       |       | MICHIGAN RD<br>Westbound |      |       |       | SR 39<br>Northbound |      |       |       |      | MICHIGAN RD<br>Eastbound |       |       |       |
|---------------------|-------|------|-------|-------|--------------------------|------|-------|-------|---------------------|------|-------|-------|------|--------------------------|-------|-------|-------|
|                     | Left  | Thru | Right | Other | Left                     | Thru | Right | Other | Left                | Thru | Right | Other | Left | Thru                     | Right | Other | Total |
| Date 09/28/98       | ----- |      |       |       |                          |      |       |       |                     |      |       |       |      |                          |       |       |       |
| 17:00               | 1     | 51   | 1     | 0     | 2                        | 0    | 3     | 0     | 2                   | 62   | 4     | 0     | 0    | 1                        | 1     | 0     | 121   |
| 17:15               | 1     | 62   | 0     | 0     | 1                        | 2    | 1     | 0     | 1                   | 63   | 2     | 0     | 1    | 1                        | 0     | 0     | 135   |
| 17:30               | 9     | 66   | 0     | 0     | 2                        | 4    | 3     | 0     | 1                   | 71   | 5     | 0     | 1    | 2                        | 3     | 0     | 167   |
| 17:45               | 5     | 58   | 0     | 0     | 3                        | 2    | 2     | 0     | 2                   | 76   | 0     | 0     | 0    | 0                        | 3     | 0     | 151   |
| Hr Total            | 16    | 237  | 1     | 0     | 8                        | 8    | 9     | 0     | 6                   | 272  | 11    | 0     | 2    | 4                        | 7     | 0     | 581   |
| <hr/>               |       |      |       |       |                          |      |       |       |                     |      |       |       |      |                          |       |       |       |
| *TOTAL*             | 49    | 1486 | 9     | 0     | 30                       | 35   | 47    | 0     | 37                  | 1571 | 31    | 0     | 13   | 22                       | 34    | 0     | 3364  |

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW MICHIGAN / TUCKER  
 COUNTY PASCO CITY ZEPHERVILLE  
 DATE 9-28-98 TIME FROM 0600 TO 0700  
 OBSERVER GEORGE HILL WEATHER CLOUDY  
 REMARKS \_\_\_\_\_

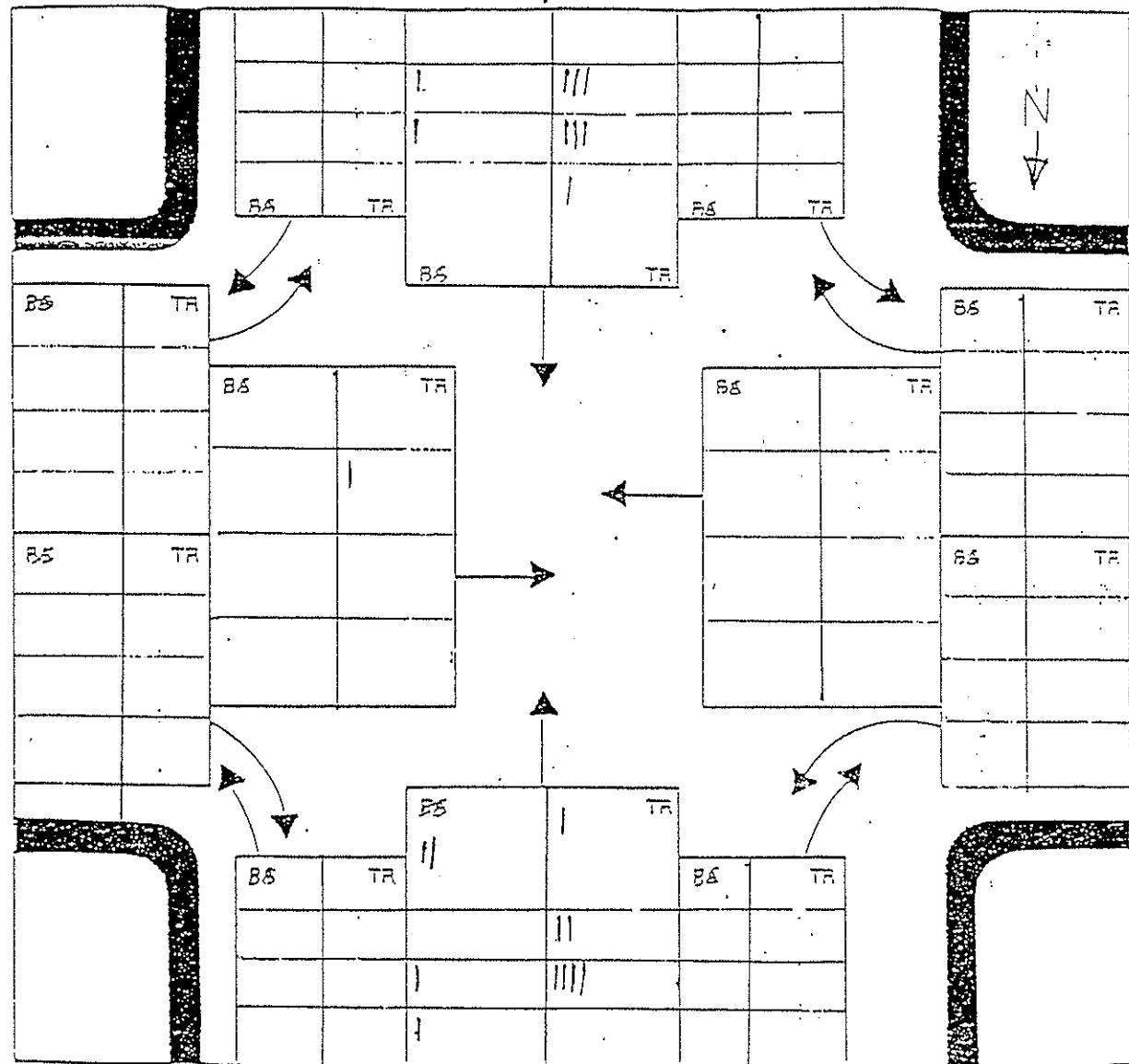


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.O. NS SR 39 EW MICHIGAN HUCKER  
COUNTY PASCO CITY ZEPHERHILLS  
DATE 9-28-98 TIME FROM 0800 TO 0900  
OBSERVER GEORGE HILL WEATHER  
REMARKS

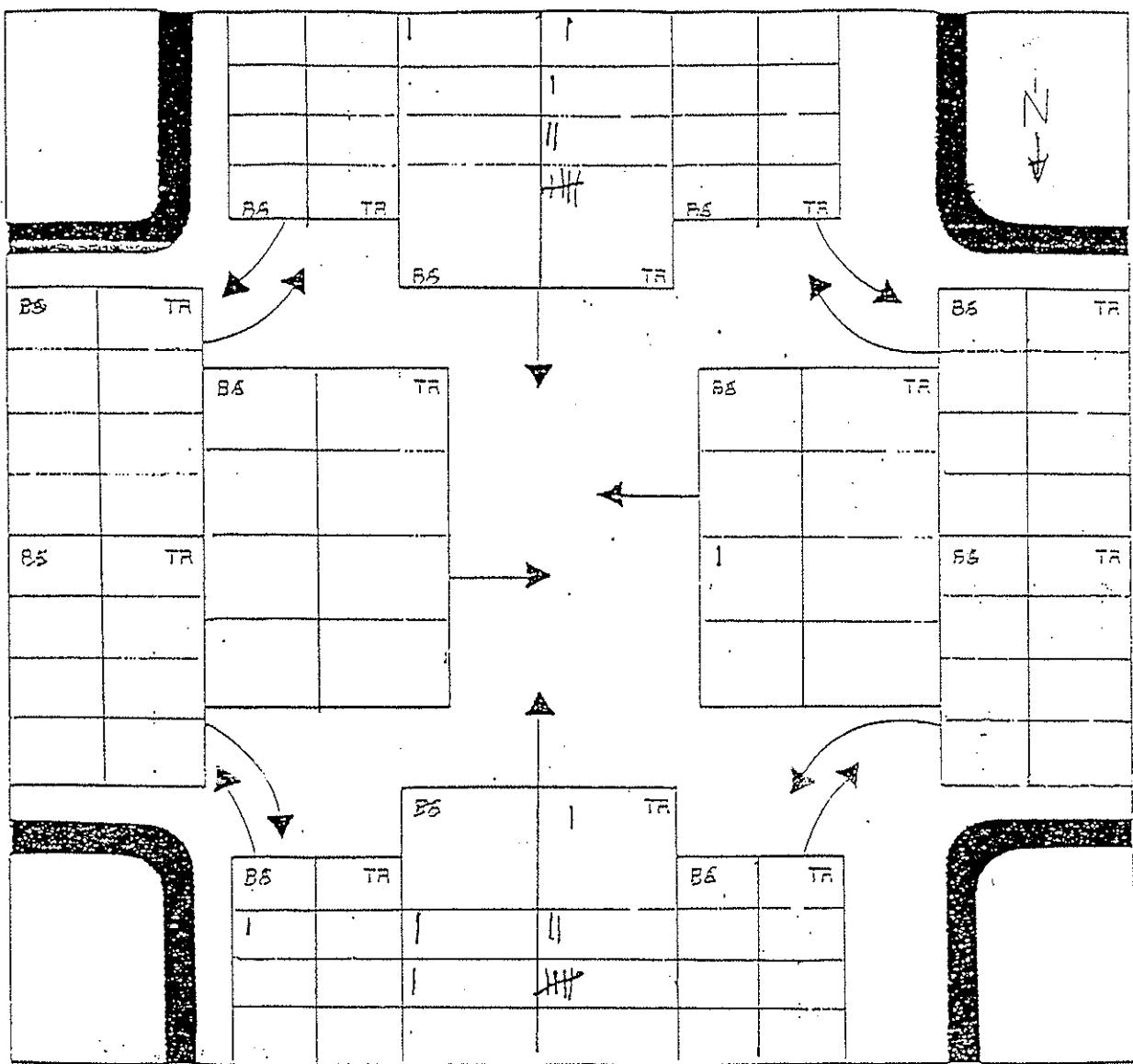


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

SH 4 OF 5

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR39 EW MICHIGAN / TUCKER  
COUNTY PASCO CITY ZEPHER HILLS  
DATE 9-28-98 TIME FROM 1100 TO 1200  
OBSERVER GEORGE HILL WEATHER \_\_\_\_\_  
REMARKS \_\_\_\_\_

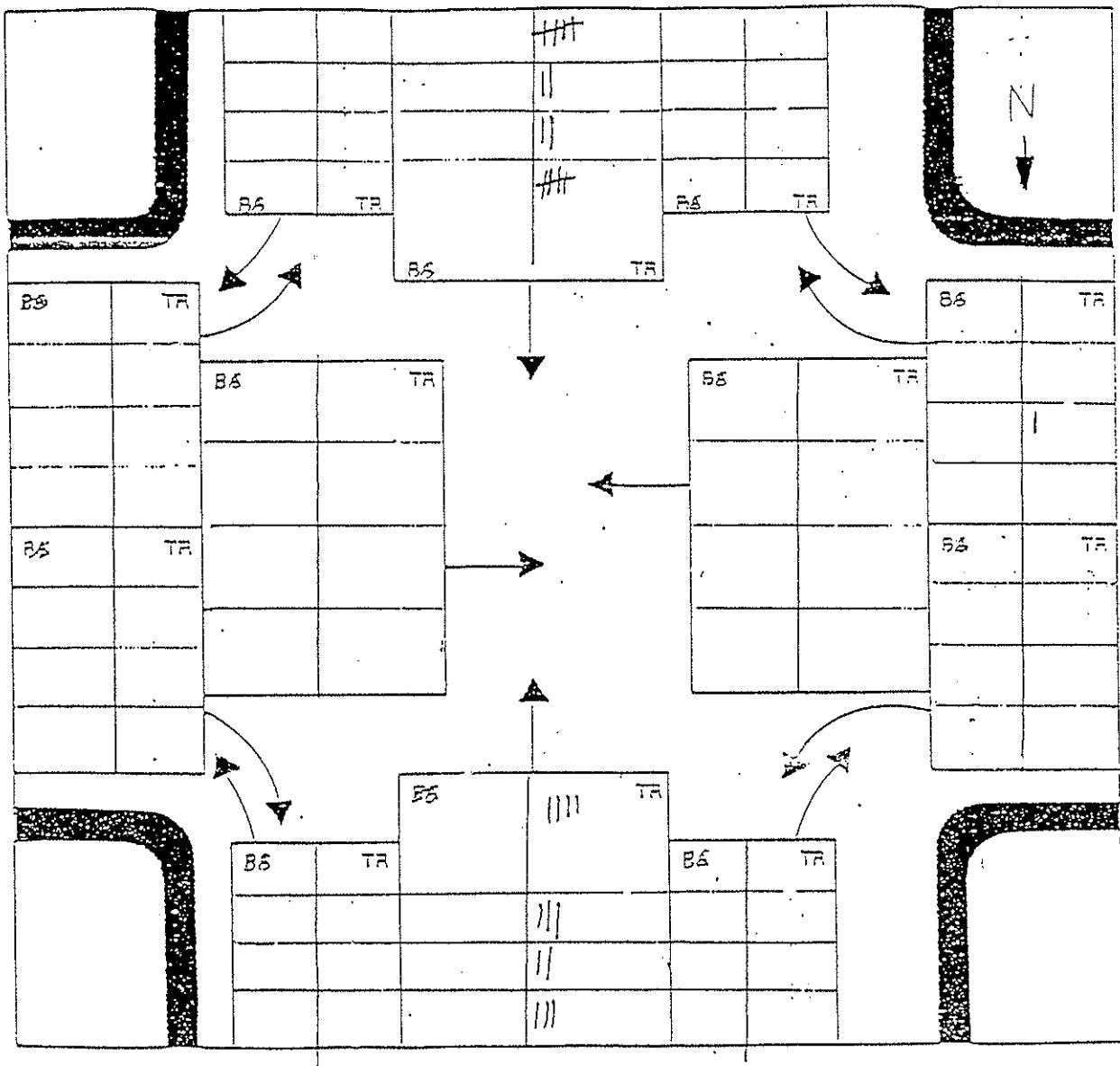


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW MICHIGAN / TUCKER  
 COUNTY PASCO CITY \_\_\_\_\_  
 DATE 9-28-98 TIME FROM 1200 TO 1300  
 OBSERVER GEORGE HILL WEATHER Pt Cloudy  
 REMARKS \_\_\_\_\_

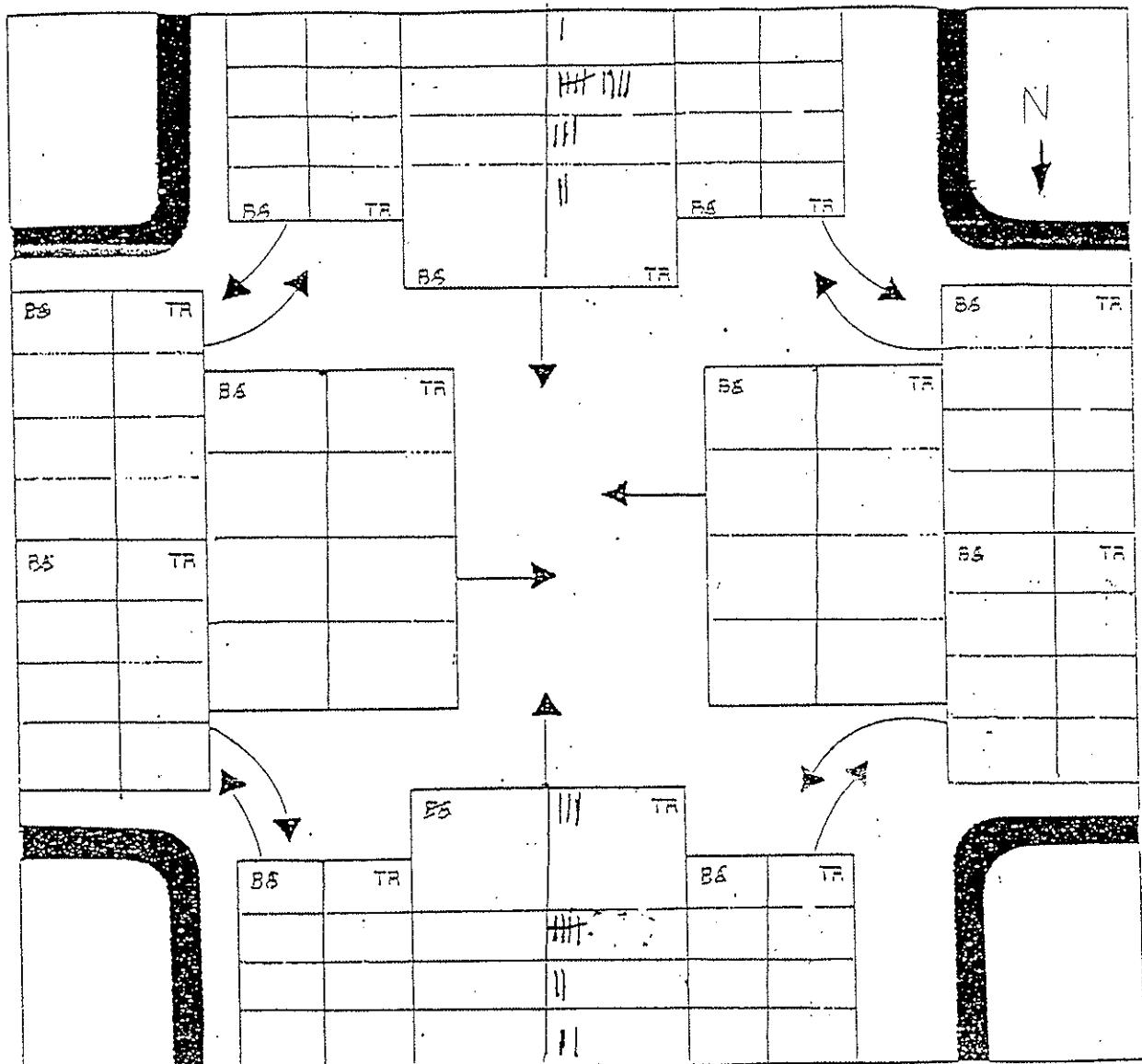


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW MICHIGAN / TUCKER  
 COUNTY PASCO CITY ZEPHER HILLS  
 DATE 9-28-98 TIME FROM 1500 TO 1600  
 OBSERVER GEORGE HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

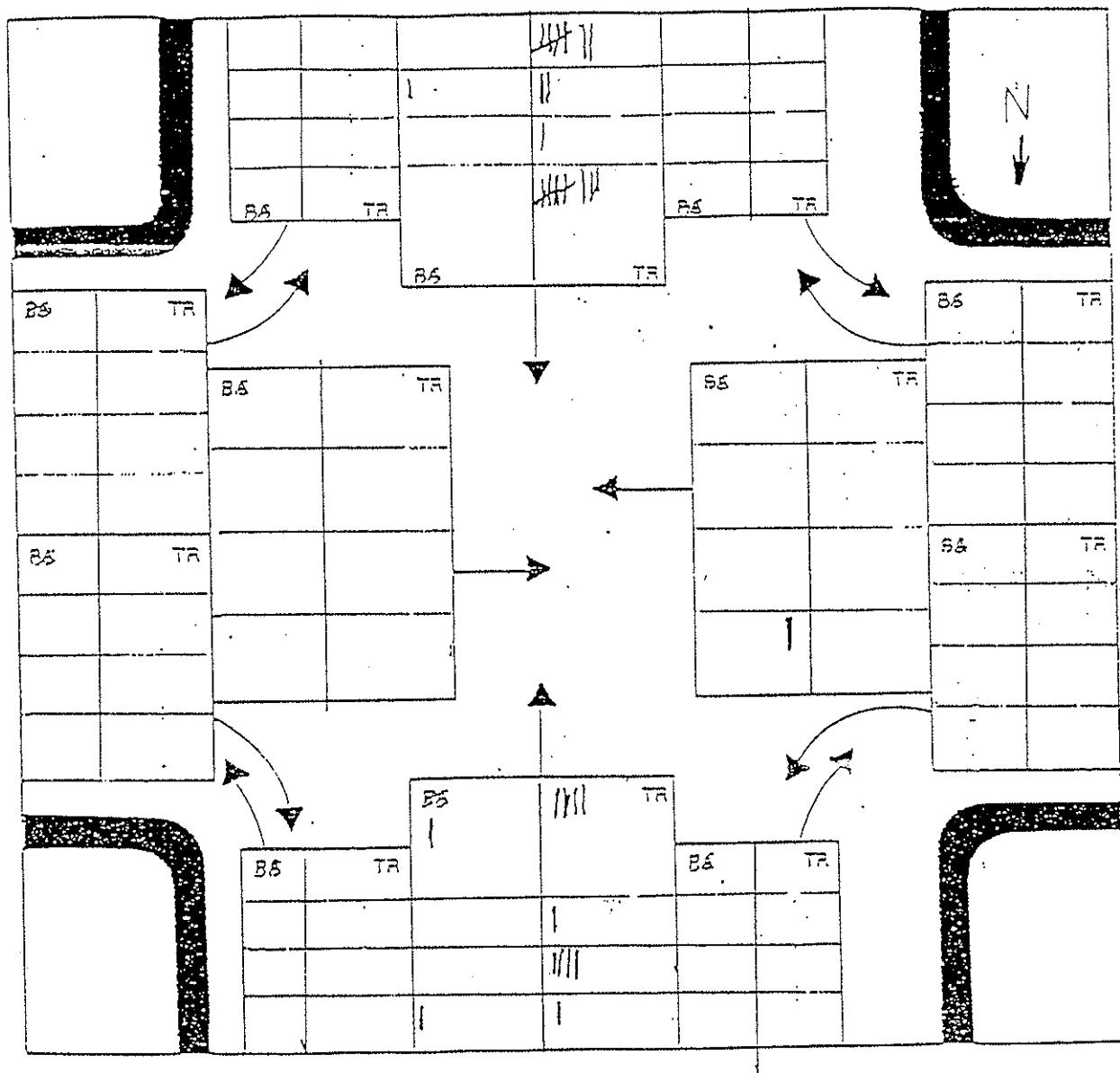


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

SH77088

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW MICHIGAN, TUCKER  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-28-98 TIME FROM 1600 TO 1700  
 OBSERVER GEORGE HILL WEATHER CLOUDY  
 REMARKS \_\_\_\_\_

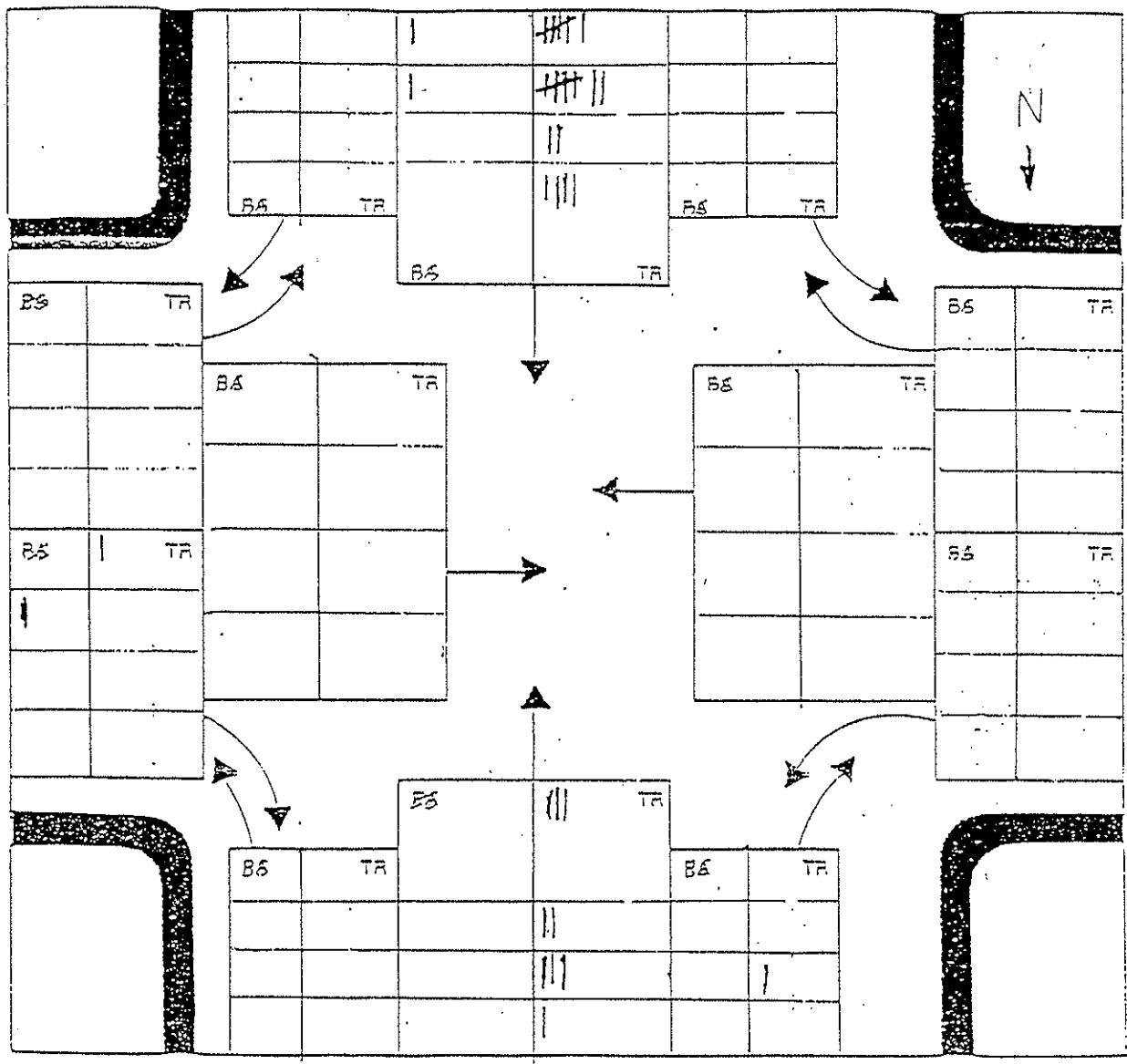


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW MICHIGAN / TUCKER  
 COUNTY PASCO CITY ZEPHER HILLS  
 DATE 9-28-98 TIME FROM 1200 TO 1800  
 OBSERVER GEORGE HILC WEATHER CLOUDY  
 REMARKS \_\_\_\_\_

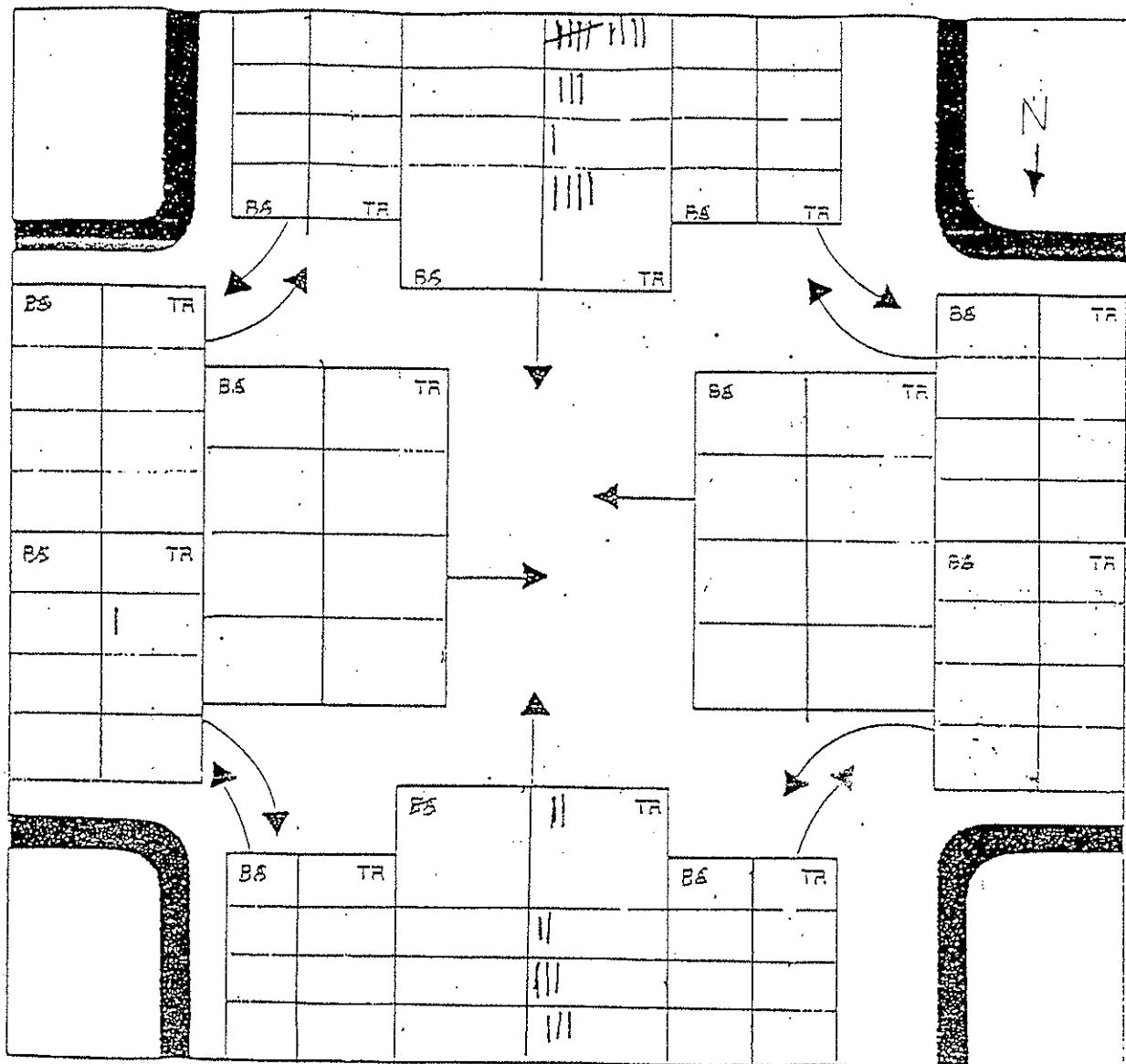


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. SR 39 C MICHIGAN / TUCKERCOUNTY PASCOCITY Z-Hills TYPE OF CONTROL \_\_\_\_\_STUDY DATE 9-28-88TIME: FROM 0000 PM TO 1200 AM OBSERVER GRH

REMARKS \_\_\_\_\_

|   | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 |
|---|-----|-----|-----|------|-------|-------|
| P |     |     |     |      |       |       |
| B | 0   | 0   | 0   | 0    |       |       |
|   | 0   | 0   | 0   | 0    |       |       |

TIME PERIODS  
 DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 |
|---|-----|-----|-----|------|-------|-------|
| P |     |     |     |      |       |       |
| B | 0   | 0   | 0   | 0    |       |       |

|   |   |   |   |   |  |  |
|---|---|---|---|---|--|--|
| P |   |   |   |   |  |  |
| B | 0 | 0 | 0 | 0 |  |  |
|   | 1 | 0 | 0 | 0 |  |  |

TOTALS



DISTANCE FT.

RAISED MEDIAN  YES  NO

  
MICHIGAN  
STREET

  
STREET

DISTANCE FT.  
RAISED MEDIAN  YES  NO

|   |   |   |   |   |  |  |
|---|---|---|---|---|--|--|
| P |   |   |   |   |  |  |
| B | 1 | 0 | 1 | 0 |  |  |
|   | 0 | 0 | 0 | 0 |  |  |

TOTALS

DISTANCE FT.  
RAISED MEDIAN  YES  NO  
TOTALS

|   |   |   |   |   |  |  |
|---|---|---|---|---|--|--|
|   |   |   |   |   |  |  |
| P | 0 | 0 | 0 | 0 |  |  |
| B | 1 | 0 | 0 | 0 |  |  |

|   |   |   |   |   |  |  |
|---|---|---|---|---|--|--|
| P |   |   |   |   |  |  |
| B | 0 | 0 | 0 | 0 |  |  |
|   | 0 | 0 | 0 | 0 |  |  |

DISTANCE FT.  
RAISED MEDIAN  YES  NO  
TOTALS

|   |   |   |   |   |  |  |
|---|---|---|---|---|--|--|
|   |   |   |   |   |  |  |
| P | 0 | 0 | 0 | 0 |  |  |
| B | 0 | 0 | 0 | 0 |  |  |

SAT. 2 OF 2

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. SR 39 E MICHIGAN / TUCKER  
 COUNTY PASCO CITY Z-HILLS TYPE OF CONTROL \_\_\_\_\_  
 STUDY DATE 9-28-98 TIME: FROM 7:00 AM TO 8:00 AM OBSERVER GRH  
 REMARKS \_\_\_\_\_

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P |      |     |     |     |
| B | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |

TIME PERIODS  
 DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P |      |     |     |     |
| B | 0    | 0   | 0   | 0   |

|   |   |    |   |   |
|---|---|----|---|---|
| P |   | 11 |   |   |
| B | 0 | 0  | 2 | 0 |
|   | 1 | 1  |   |   |
|   | 0 | 1  | 1 | 0 |

TOTALS

|   |   |   |   |   |
|---|---|---|---|---|
| P |   |   |   |   |
| B | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |

TOTALS

|   |   |   |   |   |
|---|---|---|---|---|
| P |   | 1 |   |   |
| B | 0 | 0 | 1 | 0 |
|   | 0 | 0 | 0 | 0 |

DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   |    |   |   |   |
|---|----|---|---|---|
| P | 11 | 1 |   |   |
| B | 0  | 2 | 1 | 0 |
|   | 0  | 0 | 0 | 0 |

|   |    |   |   |   |
|---|----|---|---|---|
| P | 11 | 1 |   |   |
| B | 0  | 2 | 1 | 0 |
|   | 0  | 0 | 1 | 1 |

|   |   |   |   |   |
|---|---|---|---|---|
| P |   |   |   |   |
| B | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |

DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

U-501

SHT 1 OF 8

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS U-501 EW MICHIGAN RD  
 COUNTY PASCO CITY ZEPHER HILLS  
 DATE 9-28-98 TIME FROM 0600 - TO 0700  
 OBSERVER GEORGE HILL WEATHER CLOUDY  
 REMARKS MILE MARK 3.675

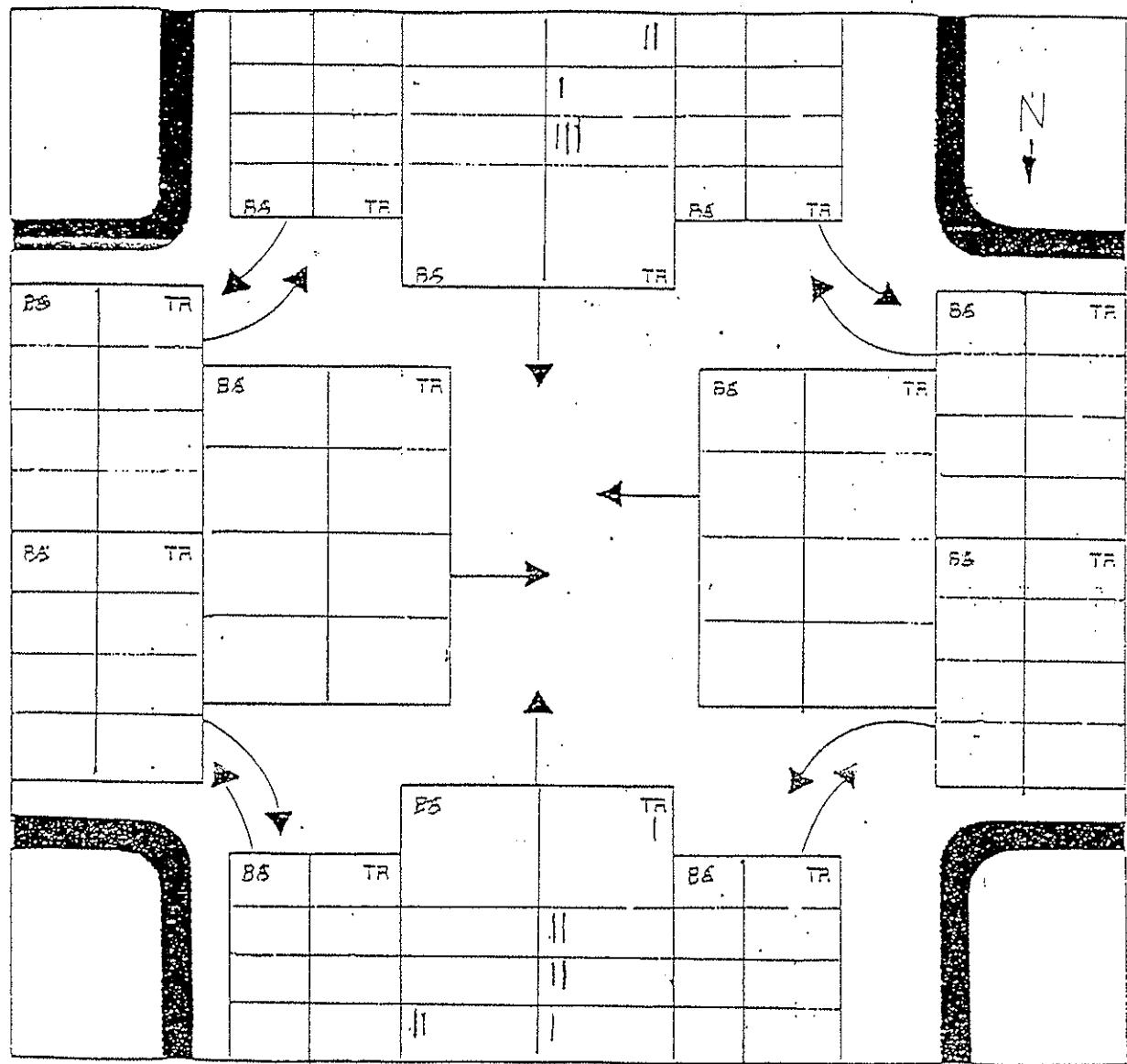


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

SHT 20F8

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS US 301 EW MICHIGAN RD  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-28-98 TIME FROM 0700 TO 0800  
 OBSERVER GEORGE HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

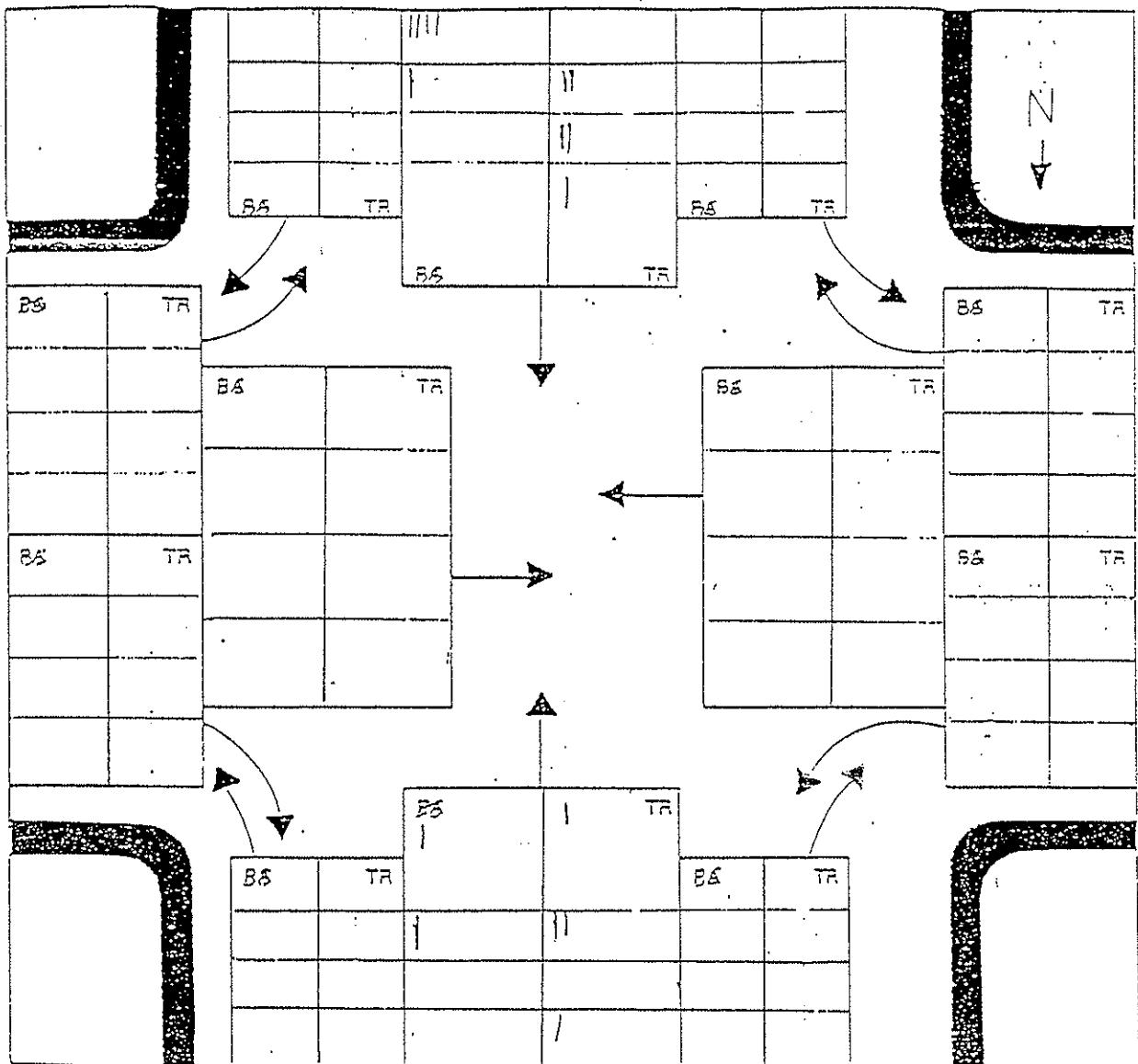


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS

US 301

EW

MICHIGAN RD.

COUNTY

PASCO

CITY ZEPHER HILLS

DATE

9-28-98

TIME: FROM

0800

TO

0900

OBSERVER

GEORGE HILL

WEATHER

REMARKS

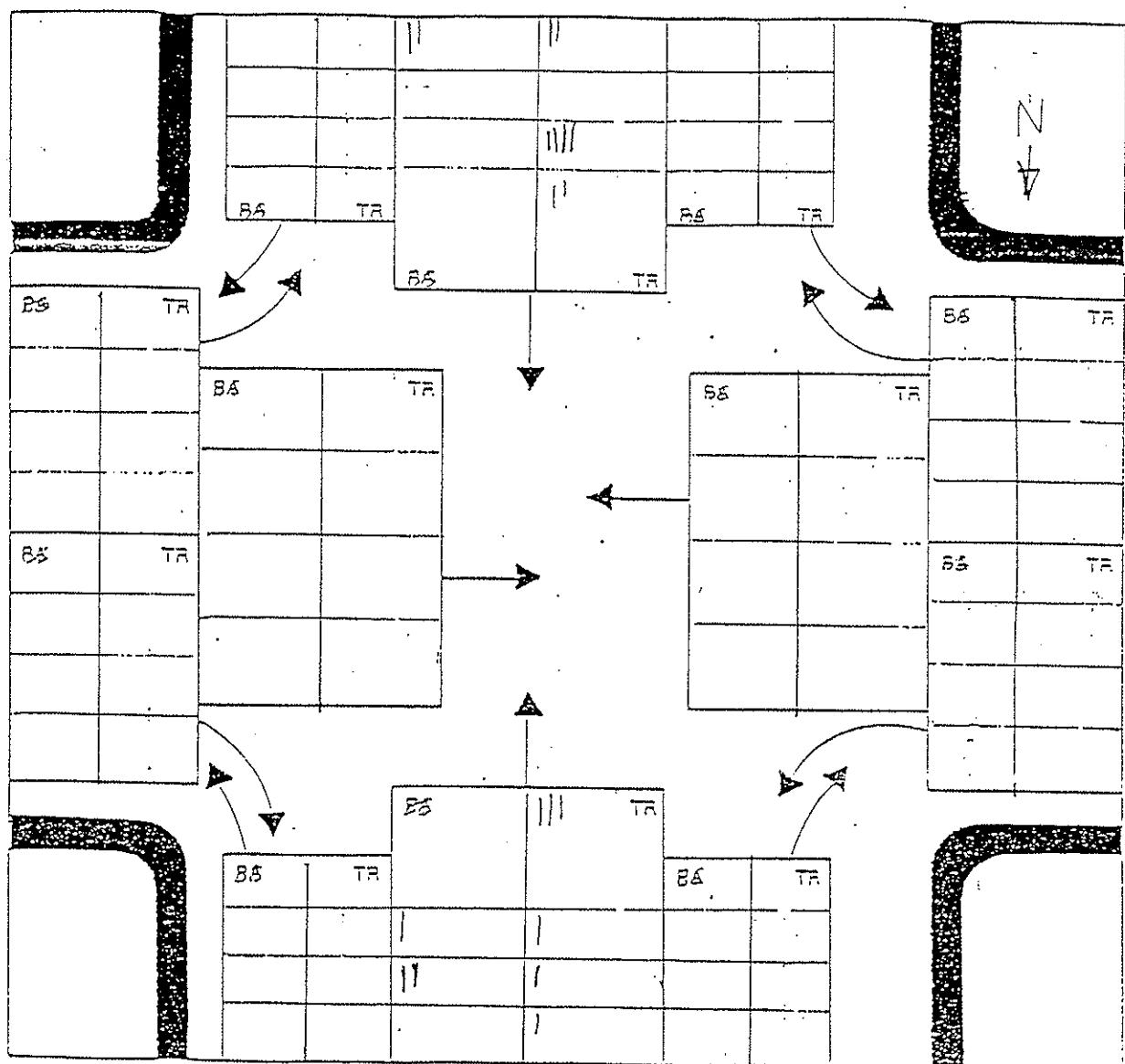


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

SHTA OF C

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS

US 301

EW

MICHIGAN Rd.

COUNTY

PASCO

CITY

ZEPHERHILIS

DATE

9-28-98

TIME: FROM

1100

TO 1200

OBSERVER

GEORGE HILL

WEATHER

REMARKS

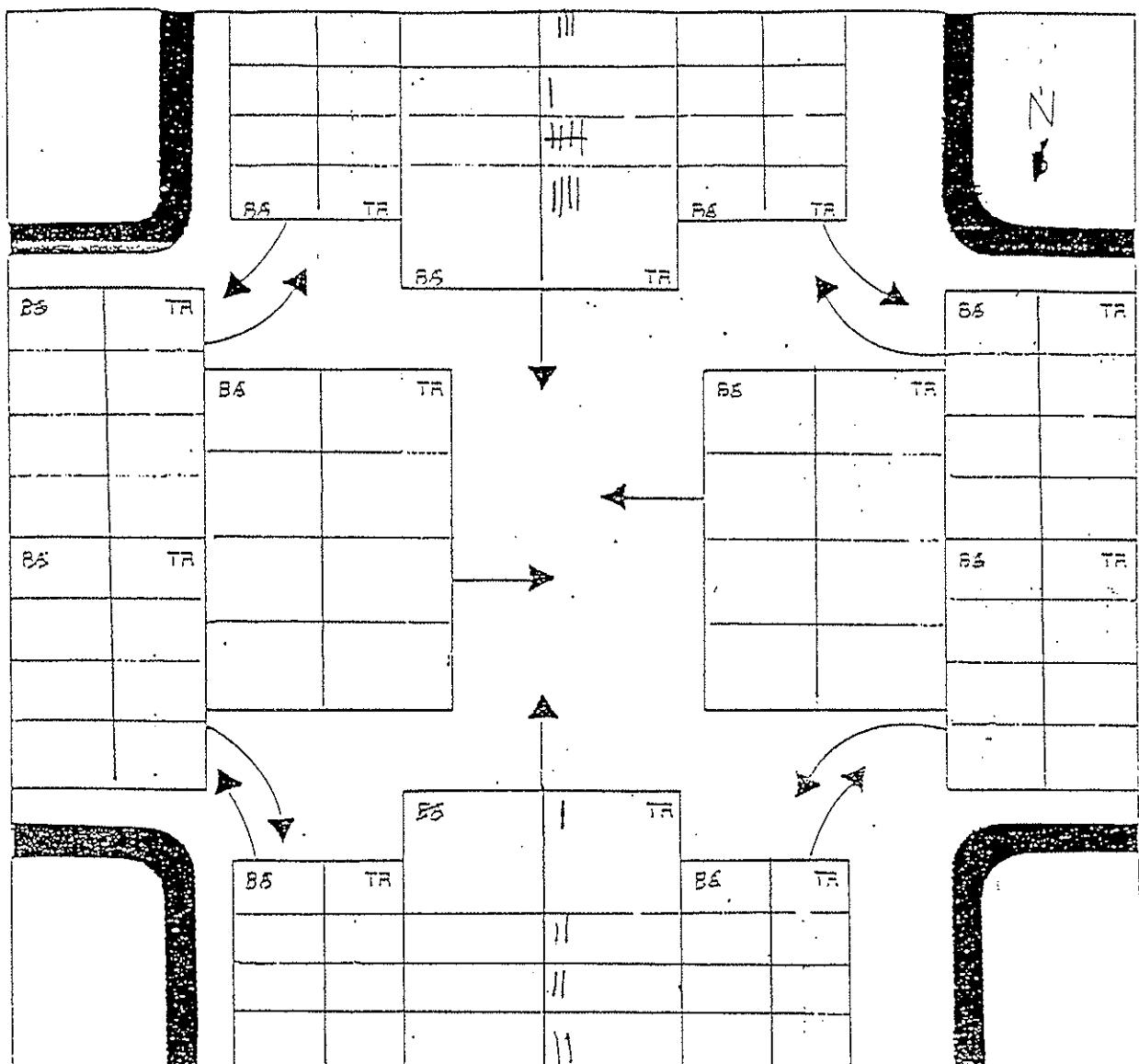


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS US 301 EW MICHIGAN Rd.  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-28-98 TIME: FROM 1200 TO 1300  
 OBSERVER GEORGE HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

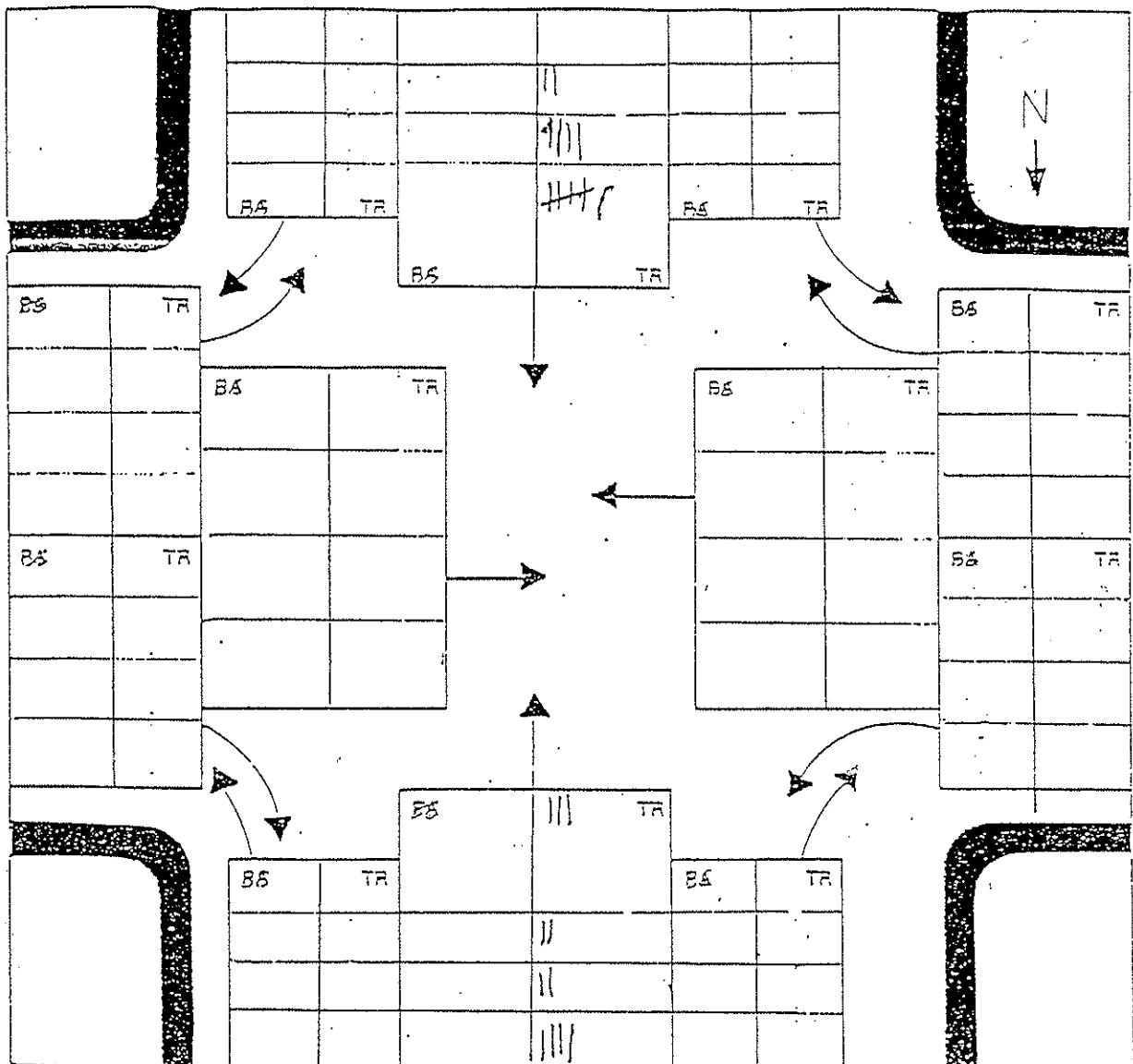


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

SHT6 OF 8

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS US 301 EW MICHIGAN Rd  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-28-98 TIME FROM 1500 TO 1600  
 OBSERVER GEORGE HILL WEATHER Cloudy  
 REMARKS \_\_\_\_\_

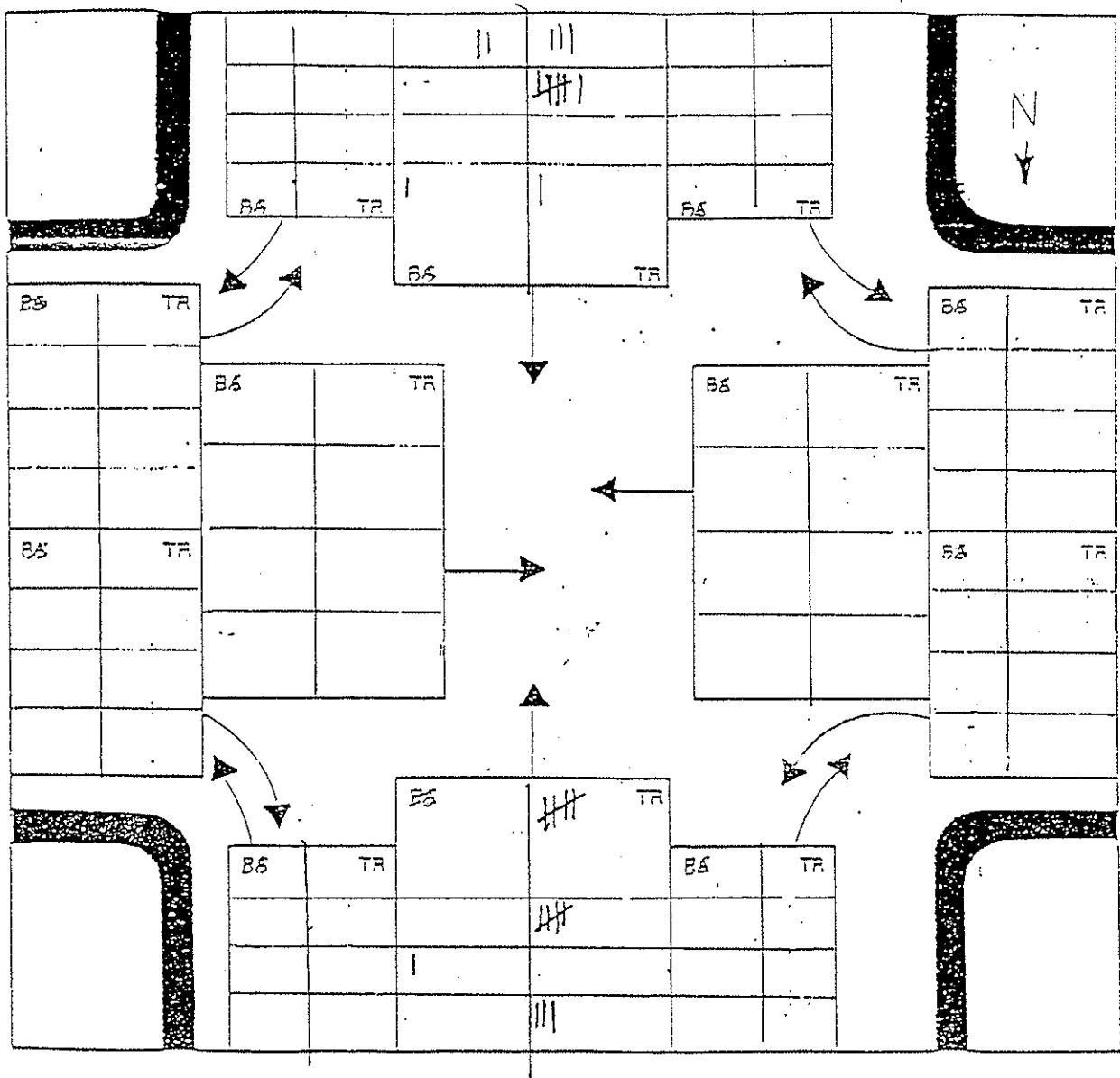


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

SH708

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS

US 301

EW

MICHIGAN RD

COUNTY

PASCO

CITY

ZEPHERHILLS

DATE

9-28-98

TIME: FROM

1600

TO

1700

OBSERVER

GEORGE HILL

WEATHER

REMARKS

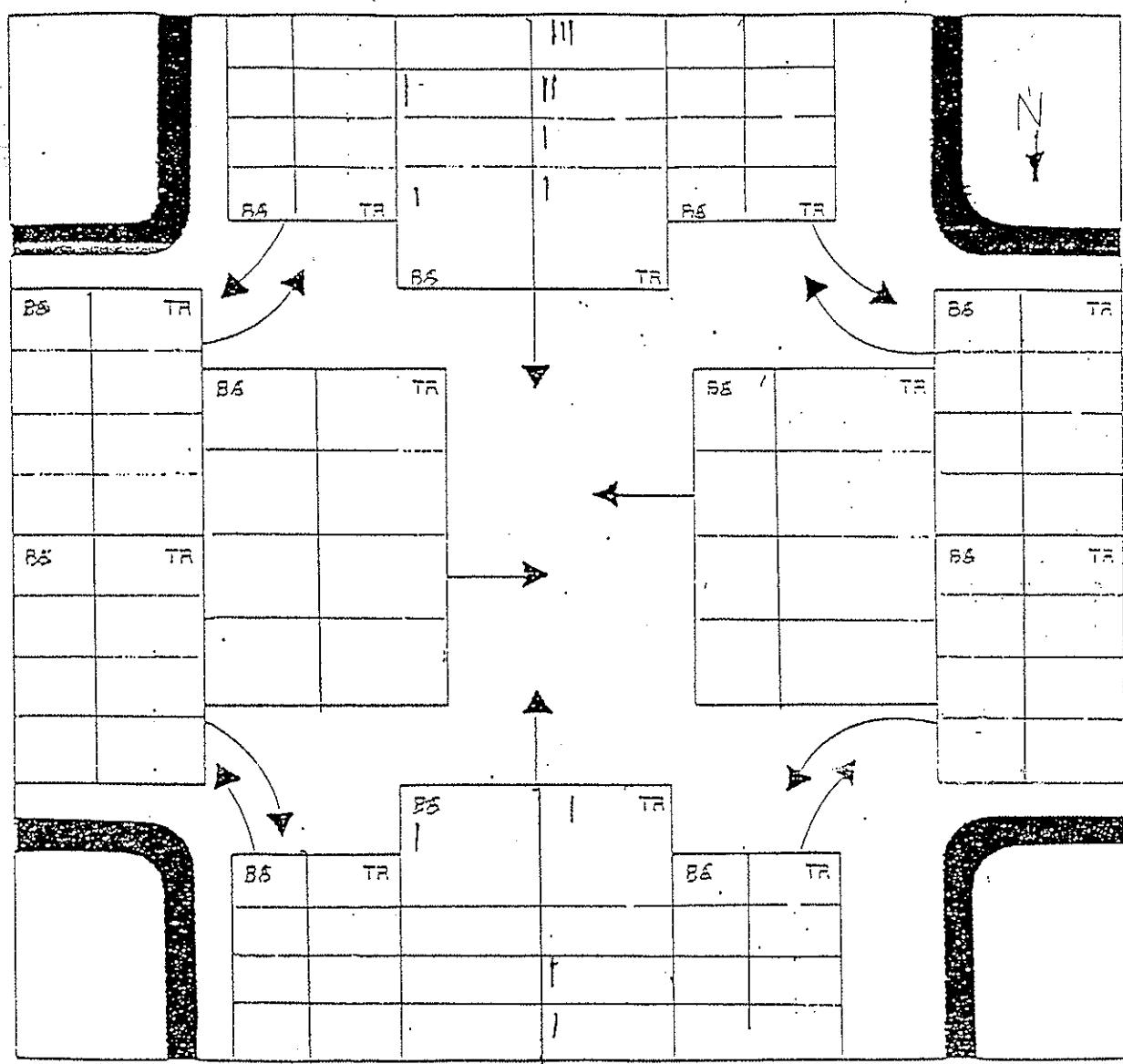


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS US 301 EW MICHIGAN R.  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-28-98 TIME: FROM 1700 TO 1800  
 OBSERVER GEORGE Hill WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

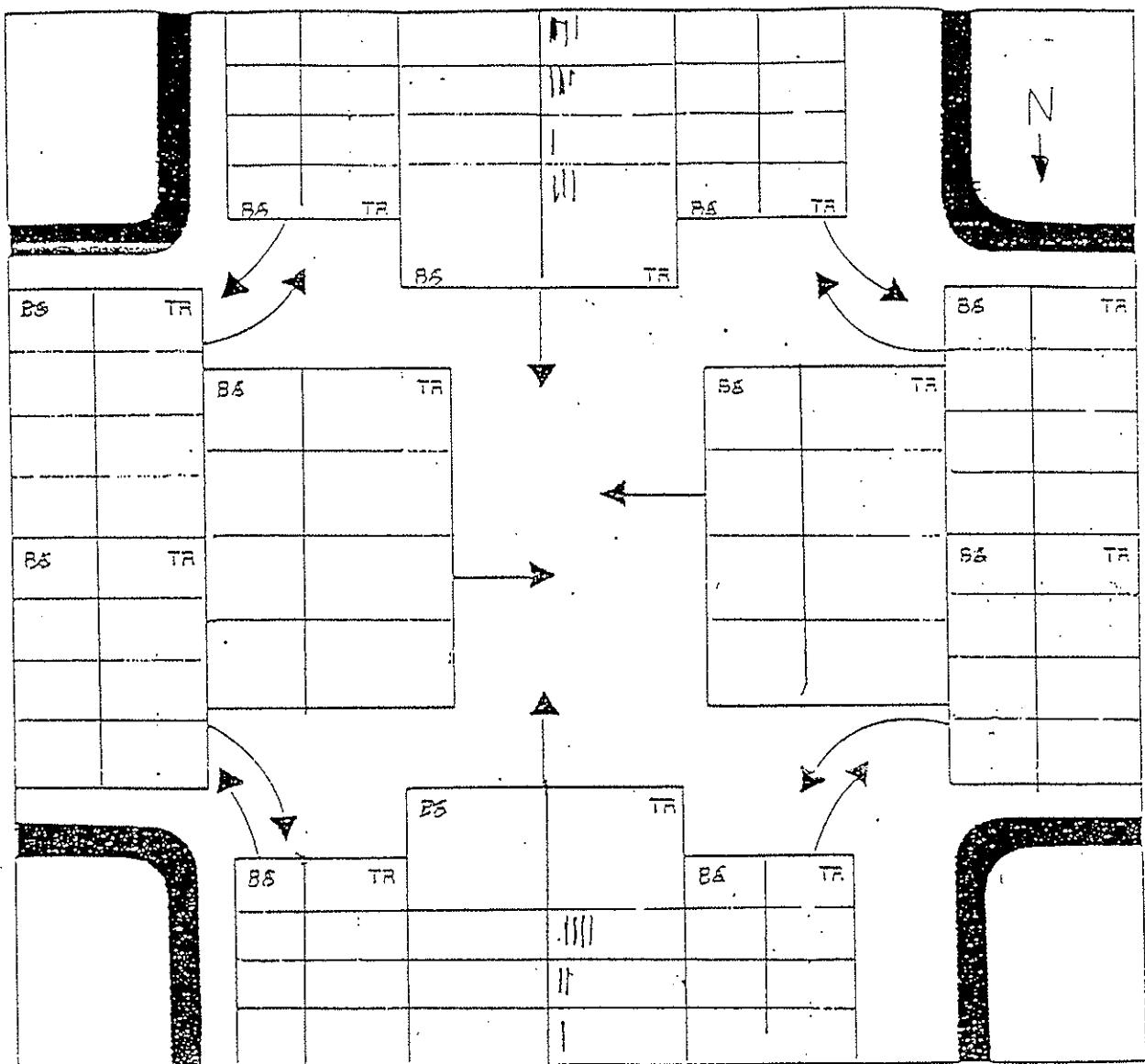


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
 DISTRICT 7 WORK COPY  
 TRAFFIC OPERATIONS  
 REQUEST FORM

|                           |             |                                       |     |      |         |     |
|---------------------------|-------------|---------------------------------------|-----|------|---------|-----|
| IN OR N <u>S</u> E. W. OF | MILE POST # | LOCAL STREET NAMES                    | U S | S R  | SECTION | LEG |
| Z-Hills                   | 2.744       | 39 AT Z-Hills Bypass -<br>(Cheney Rd) | 39  | 1A1D | -       |     |

TYPE OF STUDY: SHR TMC 6-9, 11-1, 3-6 PEDESTRIANS  
COUNTY: PASCO  
NOTE SEPARATE TRUCKS & BUSES

| SPEED ZONE | TRAFFIC SIGNAL | FLASHING BEACON | SCHOOL SPEED ZONE | UNAUTHORIZED TRAFFIC SIGNAL | DESIGN STUDY | REQUESTED BY: <u>Gabor</u>         | DATE: 9-16-98 |
|------------|----------------|-----------------|-------------------|-----------------------------|--------------|------------------------------------|---------------|
|            |                |                 |                   |                             |              | PERFORMED BY: <u>George R Hill</u> |               |
|            |                |                 |                   |                             |              | JOB #: _____                       |               |

\*\*STUDY\*\*

DATE:

|   |   |   |   |   |   |  |         |
|---|---|---|---|---|---|--|---------|
| X | X | X | X | X | 8 | FIELD SKETCH                                 | -----   |
|   | 8 | 4 |   | 8 |   | TURNING MOVEMENTS (TO 501 OR 508)            | 9/22/98 |
| X | X | X | X |   |   | SPEED CHECK (TO 503 OR 506)                  | -----   |
| X | X |   |   |   | X | TRAFFIC COUNTS (TO 510 OR 570)               | -----   |
| X | X |   |   |   |   | STOP SIGN OBSERVANCE (TO 518)                | -----   |
| X |   |   |   |   |   | STOP & DELAY (TO 507)                        | -----   |
|   |   |   |   |   |   | DRIVER OBSERVANCE OF TRAFFIC SIGNAL (TO 504) | -----   |
|   |   |   |   |   |   | PEDESTRIAN VOLUME (TO 502 OR 509)            | 9/22/98 |
|   |   |   |   |   |   | DELAY STUDY OF SIGNALIZED INTERSECTION       | -----   |
| X |   |   |   |   |   | LEFT TURN STUDY (TO 513)                     | -----   |
|   | X | X | X | X |   | OBSERVATION STUDY (TO 519)                   | -----   |

SPECIAL INSTRUCTIONS: SEPARATE TRUCK/BUS MOVEMENT SHEETS

AND PEDESTRIAN & BIKE COUNT.

CLOUDY

Weather : CLOUDY  
Counter :  
GEORGE R HILL  
SEE SEPERATE TRUCK/BUS MOVEMENT SETS.

Traffic Counting Equipment & Supplies  
2031 Stout Drive, Suite 4  
Ivyland, PA 18974

Site Code : 000141  
Start Date: 09/22/  
File I.D. : 39eZK1n3  
Page : 1

### Vehicle group 1

| SR 39<br>Southbound   |       |       |       |   | Z HILLS BY PASS<br>Westbound |      |       |       | SR 39<br>Northbound |      |       |       | Z HILLS BY PASS<br>Eastbound |      |       |       | Total |
|-----------------------|-------|-------|-------|---|------------------------------|------|-------|-------|---------------------|------|-------|-------|------------------------------|------|-------|-------|-------|
| Left                  | Thru  | Right | Other |   | Left                         | Thru | Right | Other | Left                | Thru | Right | Other | Left                         | Thru | Right | Other |       |
| Date 09/22/98         | ----- |       |       |   |                              |      |       |       |                     |      |       |       |                              |      |       |       |       |
| 06:00                 | 26    | 26    | 6     | 0 | 0                            | 9    | 19    | 0     | 0                   | 57   | 0     | 0     | 33                           | 16   | 4     | 0     | 100   |
| 06:15                 | 35    | 26    | 14    | 0 | 0                            | 9    | 23    | 1     | 5                   | 61   | 1     | 0     | 32                           | 25   | 1     | 0     | 233   |
| 06:30                 | 23    | 35    | 10    | 0 | 0                            | 10   | 37    | 0     | 4                   | 58   | 2     | 0     | 19                           | 22   | 5     | 0     | 211   |
| 06:45                 | 27    | 37    | 10    | 0 | 0                            | 17   | 23    | 0     | 3                   | 26   | 0     | 0     | 24                           | 44   | 6     | 0     | 212   |
| Hr Total              | 111   | 124   | 40    | 0 | 0                            | 45   | 102   | 1     | 12                  | 202  | 3     | 0     | 108                          | 107  | 16    | 0     | 871   |
| 07:00                 | 22    | 39    | 17    | 0 | 0                            | 7    | 35    | 0     | 3                   | 51   | 0     | 0     | 19                           | 27   | 2     | 0     | 211   |
| 07:15                 | 24    | 44    | 19    | 0 | 0                            | 19   | 26    | 0     | 3                   | 52   | 0     | 0     | 14                           | 26   | 1     | 0     | 220   |
| 07:30                 | 19    | 56    | 12    | 0 | 0                            | 15   | 24    | 0     | 7                   | 47   | 1     | 0     | 17                           | 23   | 1     | 0     | 222   |
| 07:45                 | 12    | 37    | 2     | 0 | 8                            | 17   | 5     | 0     | 16                  | 25   | 9     | 0     | 10                           | 9    | 15    | 0     | 18    |
| Hr Total              | 77    | 176   | 50    | 0 | 8                            | 58   | 90    | 0     | 29                  | 175  | 10    | 0     | 60                           | 85   | 19    | 0     | 81    |
| 08:00                 | 3     | 21    | 0     | 0 | 10                           | 10   | 3     | 0     | 14                  | 37   | 11    | 0     | 0                            | 7    | 21    | 0     | 12    |
| 08:15                 | 2     | 24    | 1     | 0 | 12                           | 14   | 4     | 0     | 20                  | 24   | 17    | 0     | 0                            | 7    | 18    | 0     | 14    |
| 08:30                 | 3     | 24    | 2     | 0 | 15                           | 15   | 2     | 0     | 19                  | 52   | 10    | 0     | 0                            | 9    | 10    | 0     | 161   |
| 08:45                 | 0     | 0     | 0     | 0 | 0                            | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                            | 0    | 0     | 0     | 0     |
| Hr Total              | 8     | 69    | 3     | 0 | 37                           | 39   | 9     | 0     | 53                  | 113  | 38    | 0     | 0                            | 23   | 49    | 0     | 44    |
| ----- * BREAK * ----- |       |       |       |   |                              |      |       |       |                     |      |       |       |                              |      |       |       |       |
| 10:00                 | 0     | 0     | 0     | 0 | 0                            | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                            | 0    | 0     | 0     | 0     |
| 10:15                 | 0     | 0     | 0     | 0 | 0                            | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                            | 0    | 0     | 0     | 0     |
| 10:30                 | 0     | 0     | 0     | 0 | 0                            | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                            | 0    | 0     | 0     | 0     |
| 10:45                 | 4     | 39    | 0     | 0 | 10                           | 4    | 6     | 0     | 10                  | 31   | 11    | 2     | 0                            | 6    | 9     | 0     | 13    |
| Hr Total              | 4     | 39    | 0     | 0 | 10                           | 4    | 6     | 0     | 10                  | 31   | 11    | 2     | 0                            | 6    | 9     | 0     | 13    |
| 11:00                 | 2     | 32    | 1     | 0 | 15                           | 9    | 10    | 0     | 14                  | 44   | 14    | 0     | 0                            | 16   | 19    | 0     | 17    |
| 11:15                 | 1     | 27    | 0     | 0 | 11                           | 10   | 4     | 0     | 12                  | 34   | 11    | 0     | 2                            | 12   | 11    | 0     | 13    |
| 11:30                 | 11    | 38    | 3     | 0 | 18                           | 10   | 10    | 0     | 12                  | 60   | 9     | 0     | 2                            | 9    | 18    | 0     | 200   |
| 11:45                 | 7     | 27    | 1     | 0 | 16                           | 11   | 9     | 0     | 19                  | 38   | 9     | 0     | 0                            | 4    | 17    | 0     | 158   |
| Hr Total              | 21    | 124   | 5     | 0 | 60                           | 40   | 33    | 0     | 57                  | 176  | 43    | 0     | 4                            | 41   | 65    | 0     | 66    |
| 12:00                 | 9     | 37    | 2     | 0 | 11                           | 7    | 6     | 0     | 20                  | 47   | 10    | 0     | 1                            | 10   | 14    | 0     | 174   |
| 12:15                 | 5     | 36    | 0     | 0 | 13                           | 5    | 5     | 0     | 18                  | 30   | 12    | 0     | 2                            | 6    | 12    | 0     | 144   |
| 12:30                 | 9     | 39    | 0     | 0 | 14                           | 14   | 6     | 0     | 14                  | 31   | 7     | 0     | 0                            | 14   | 24    | 0     | 172   |
| 12:45                 | 0     | 0     | 0     | 0 | 0                            | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                            | 0    | 0     | 0     | 0     |
| Hr Total              | 23    | 112   | 2     | 0 | 38                           | 26   | 17    | 0     | 52                  | 108  | 29    | 0     | 3                            | 30   | 50    | 0     | 490   |
| ----- * BREAK * ----- |       |       |       |   |                              |      |       |       |                     |      |       |       |                              |      |       |       |       |
| 4:00                  | 0     | 0     | 0     | 0 | 0                            | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                            | 0    | 0     | 0     | 0     |
| 4:15                  | 0     | 0     | 0     | 0 | 0                            | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                            | 0    | 0     | 0     | 0     |
| 4:30                  | 0     | 0     | 0     | 0 | 0                            | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                            | 0    | 0     | 0     | 0     |
| 4:45                  | 5     | 33    | 1     | 0 | 12                           | 15   | 4     | 0     | 21                  | 42   | 12    | 0     | 3                            | 12   | 25    | 0     | 185   |
| Hr Total              | 5     | 33    | 1     | 0 | 12                           | 15   | 4     | 0     | 21                  | 42   | 12    | 0     | 3                            | 12   | 25    | 0     | 185   |

Weather : CLOUDY  
 Counter :  
 GEORGE R HILL  
 SEE SEPERATE TRUCK/BUS MOVEMENT SHTS.

**Traffic Counting Equipment & Supplies**  
 2031 Stout Drive, Suite 4  
 Ivyland, PA 18974

Site Code : 00014110  
 Start Date: 09/22/98  
 File I.D. : 39@ZHILS  
 Page : 2

Vehicle group 1

| SR 39<br>Southbound | Z HILLS BY PASS<br>Westbound |      |       |       | SR 39<br>Northbound |      |       |       | Z HILLS BY PASS<br>Eastbound |      |       |       | Total |
|---------------------|------------------------------|------|-------|-------|---------------------|------|-------|-------|------------------------------|------|-------|-------|-------|
|                     | Left                         | Thru | Right | Other | Left                | Thru | Right | Other | Left                         | Thru | Right | Other |       |
| Date 09/22/98       |                              |      |       |       |                     |      |       |       |                              |      |       |       |       |
| 15:00               | 3                            | 50   | 1     | 0     | 10                  | 7    | 3     | 0     | 24                           | 47   | 17    | 0     | 193   |
| 15:15               | 5                            | 37   | 1     | 0     | 20                  | 11   | 4     | 0     | 30                           | 67   | 26    | 0     | 243   |
| 15:30               | 4                            | 43   | 0     | 0     | 8                   | 5    | 3     | 0     | 20                           | 52   | 15    | 0     | 187   |
| 15:45               | 8                            | 30   | 1     | 0     | 13                  | 14   | 6     | 0     | 24                           | 51   | 16    | 0     | 221   |
| Fr Total            | 20                           | 160  | 3     | 0     | 51                  | 37   | 16    | 0     | 98                           | 217  | 74    | 0     | 844   |
| 16:00               | 3                            | 45   | 0     | 0     | 8                   | 8    | 4     | 0     | 18                           | 42   | 18    | 0     | 195   |
| 16:15               | 4                            | 42   | 1     | 0     | 17                  | 12   | 6     | 0     | 27                           | 53   | 17    | 0     | 216   |
| 16:30               | 5                            | 36   | 2     | 0     | 21                  | 5    | 6     | 0     | 31                           | 55   | 14    | 0     | 209   |
| 16:45               | 7                            | 60   | 1     | 0     | 22                  | 32   | 15    | 0     | 21                           | 43   | 16    | 0     | 269   |
| Fr Total            | 19                           | 183  | 4     | 0     | 68                  | 57   | 31    | 0     | 97                           | 193  | 65    | 0     | 889   |
| 17:00               | 4                            | 44   | 2     | 0     | 22                  | 19   | 9     | 0     | 25                           | 63   | 18    | 0     | 270   |
| 17:15               | 6                            | 47   | 0     | 0     | 14                  | 7    | 6     | 0     | 26                           | 62   | 17    | 0     | 238   |
| 17:30               | 4                            | 62   | 0     | 0     | 16                  | 8    | 6     | 0     | 25                           | 73   | 21    | 0     | 272   |
| Fr Total            | 14                           | 153  | 2     | 0     | 52                  | 34   | 21    | 0     | 76                           | 198  | 56    | 0     | 780   |
| TOTAL*              | 302                          | 1173 | 110   | 0     | 336                 | 355  | 329   | 1     | 505                          | 1455 | 341   | 2     | 6138  |

**FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM**

LOCATION I.D. NS SR 39 EW Z-HILLS BYPASS  
COUNTY PASCO CITY ZEPHER HILLS  
DATE 9-22-98 TIME: FROM 6:00 TO 7:00  
OBSERVER GEORGE R HILL WEATHER CLOUDY  
REMARKS \_\_\_\_\_

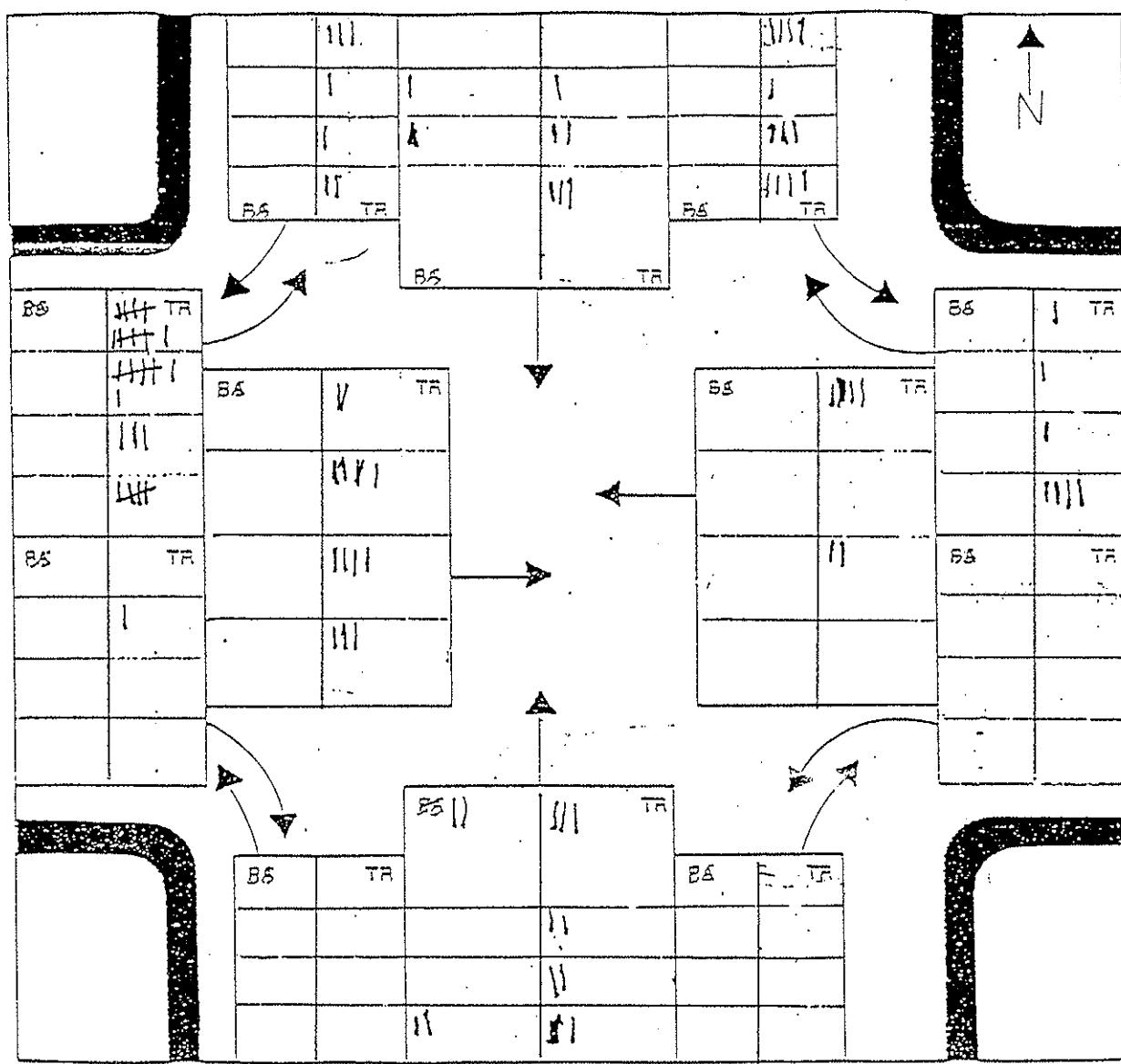


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW Z-HILLS BYPASS  
 COUNTY PASCO CITY ZEPHER HILLS  
 DATE 9-22-98 TIME: FROM 7:00 TO 8:00  
 OBSERVER GEORGE R HILL WEATHER CLOUDY  
 REMARKS \_\_\_\_\_

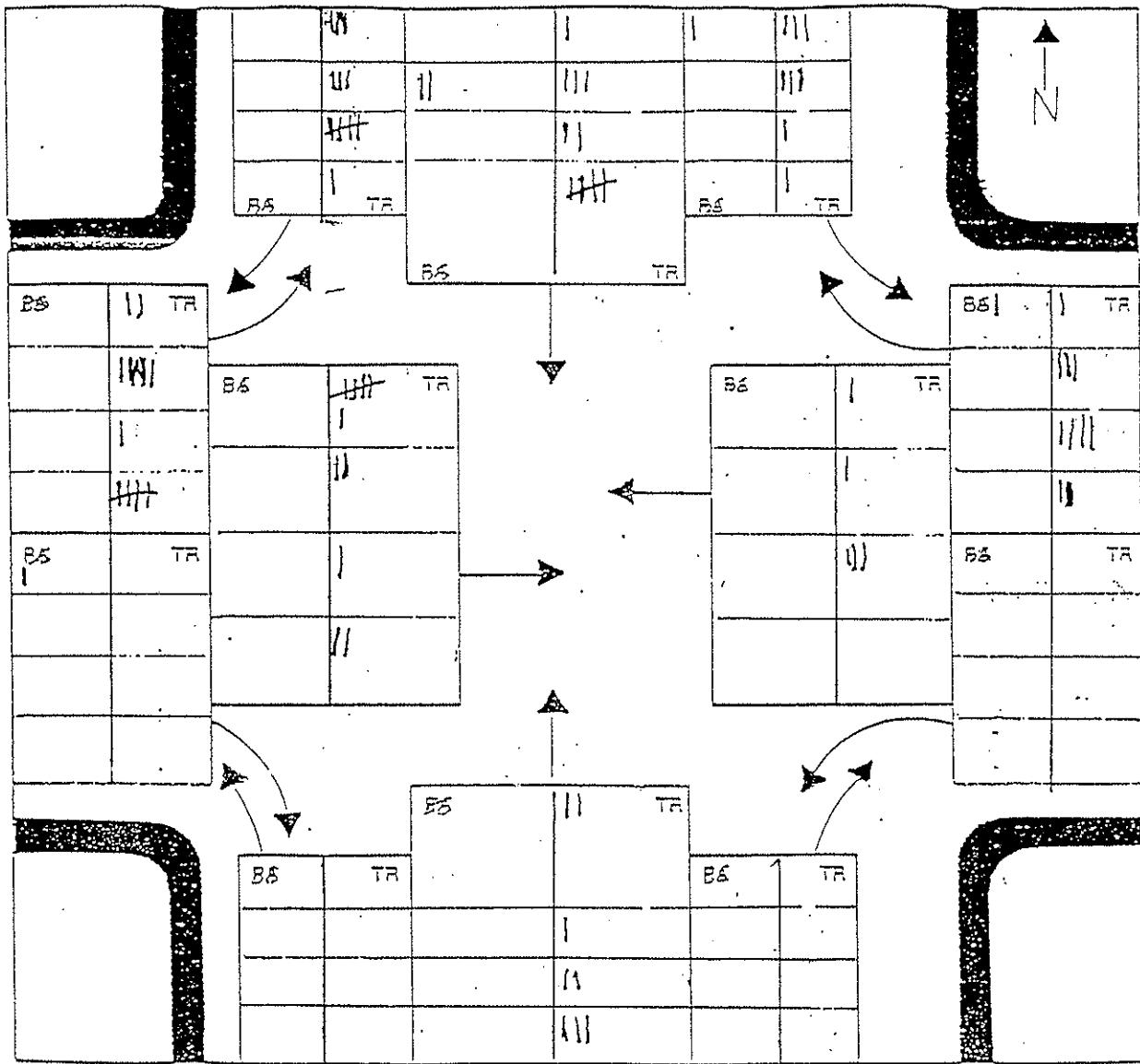


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW Z HILLS BY PASS  
 COUNTY PASCO CITY ZEPHER HILLS  
 DATE 9-22-98 TIME FROM 7:00 TO 8:00  
 OBSERVER GEORGE R HILL WEATHER CLOUDY  
 REMARKS \_\_\_\_\_

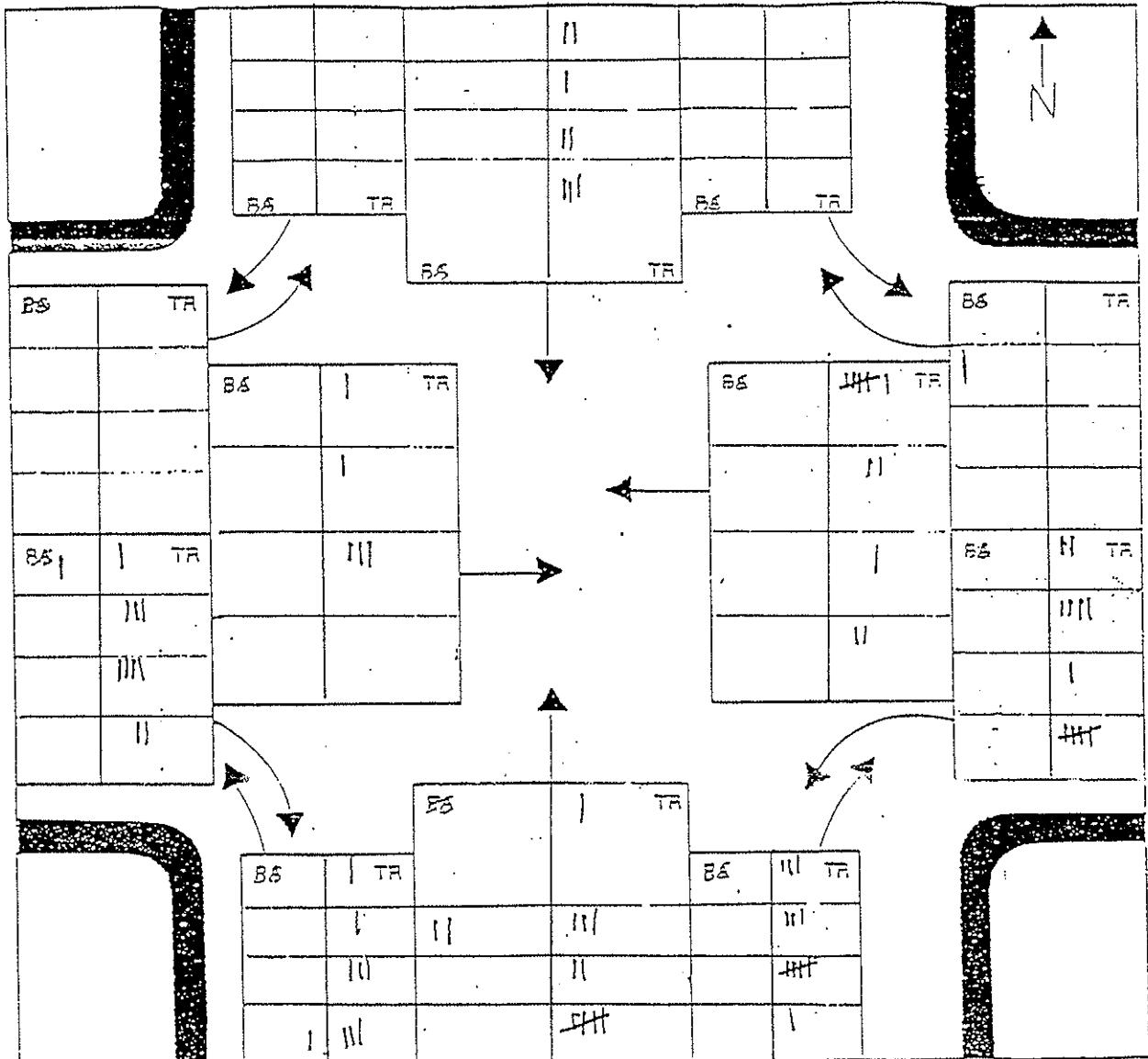


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.O. NS SR 39 EW Z-Hills BYPASS  
COUNTY PASCO CITY ZEPHER HILLS  
DATE 9-22-98 TIME: FROM 8:00 TO 9:00  
OBSERVER GEORGE R HILL WEATHER CLOUDY  
REMARKS \_\_\_\_\_

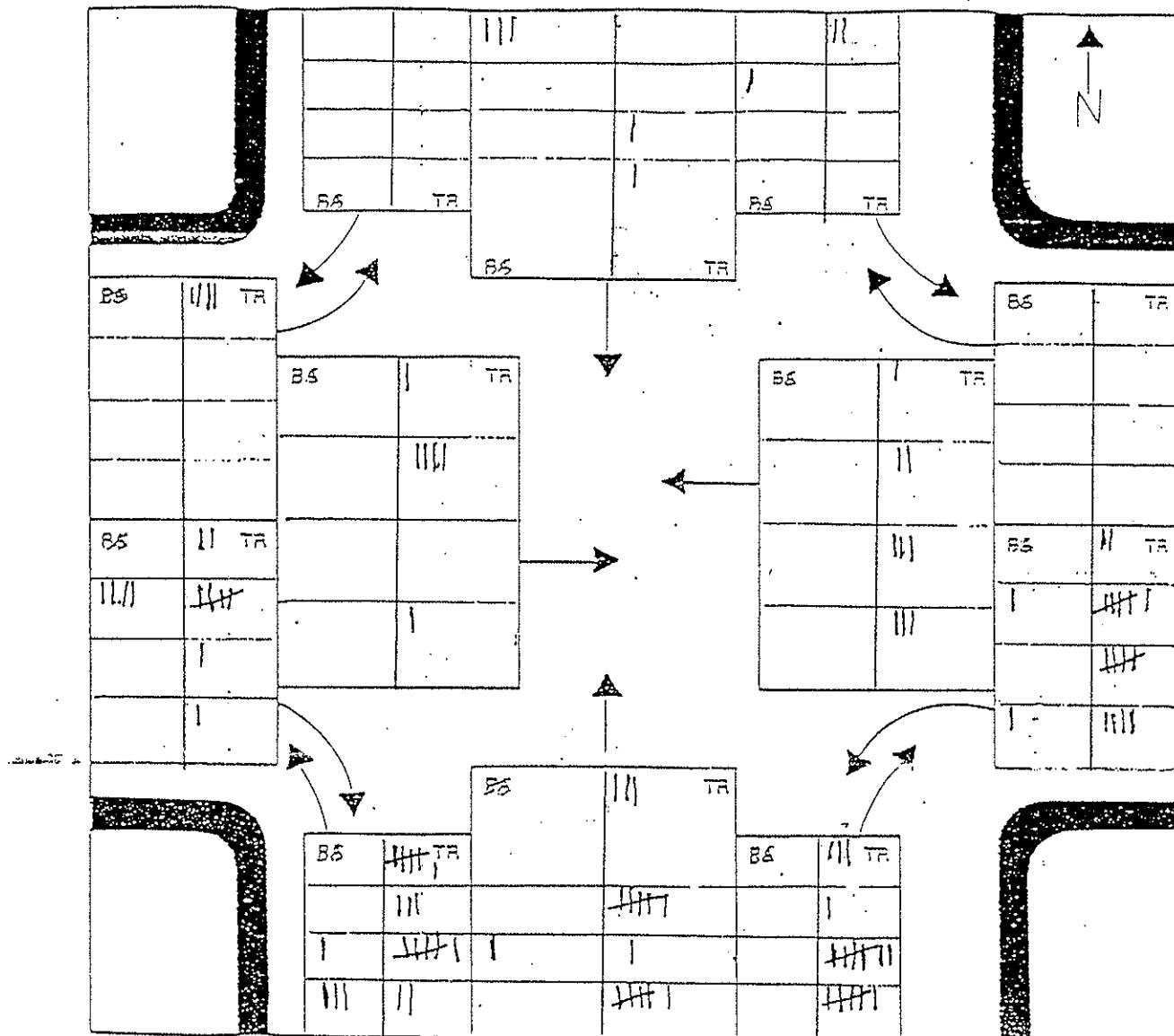


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW Z-HILLS BYPASS  
 COUNTY PASCO CITY ZEPHYR HILLS  
 DATE 9-22-98 TIME FROM 11:00 TO 12:00  
 OBSERVER GEORGE R HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

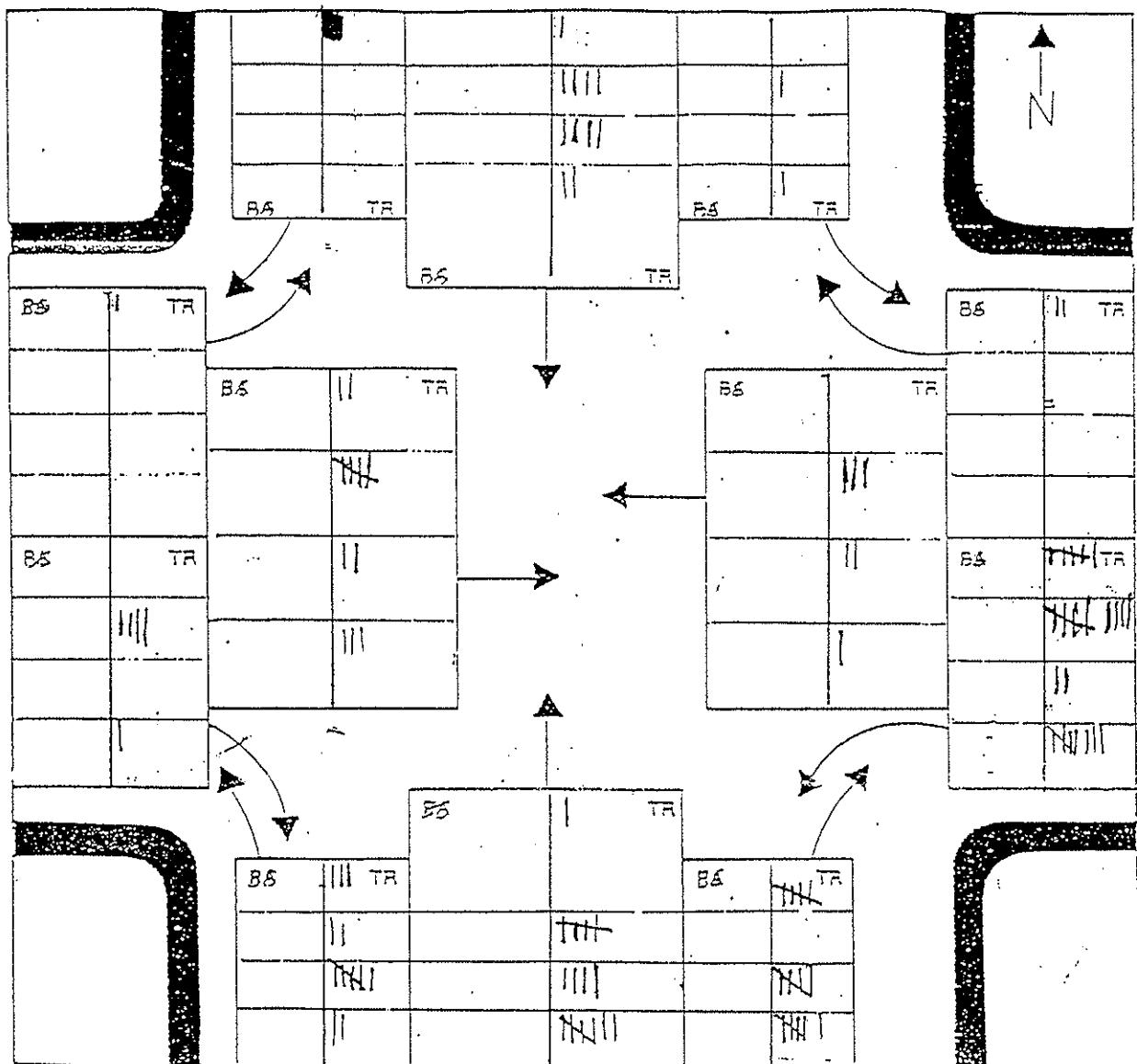


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 EW Z-HILLS BY PASS  
COUNTY PASCO CITY ZEPHER HILL  
DATE 9-22-98 TIME FROM 1500 TO 1600  
OBSERVER GEORGE R HILL WEATHER CLOUDY  
REMARKS \_\_\_\_\_

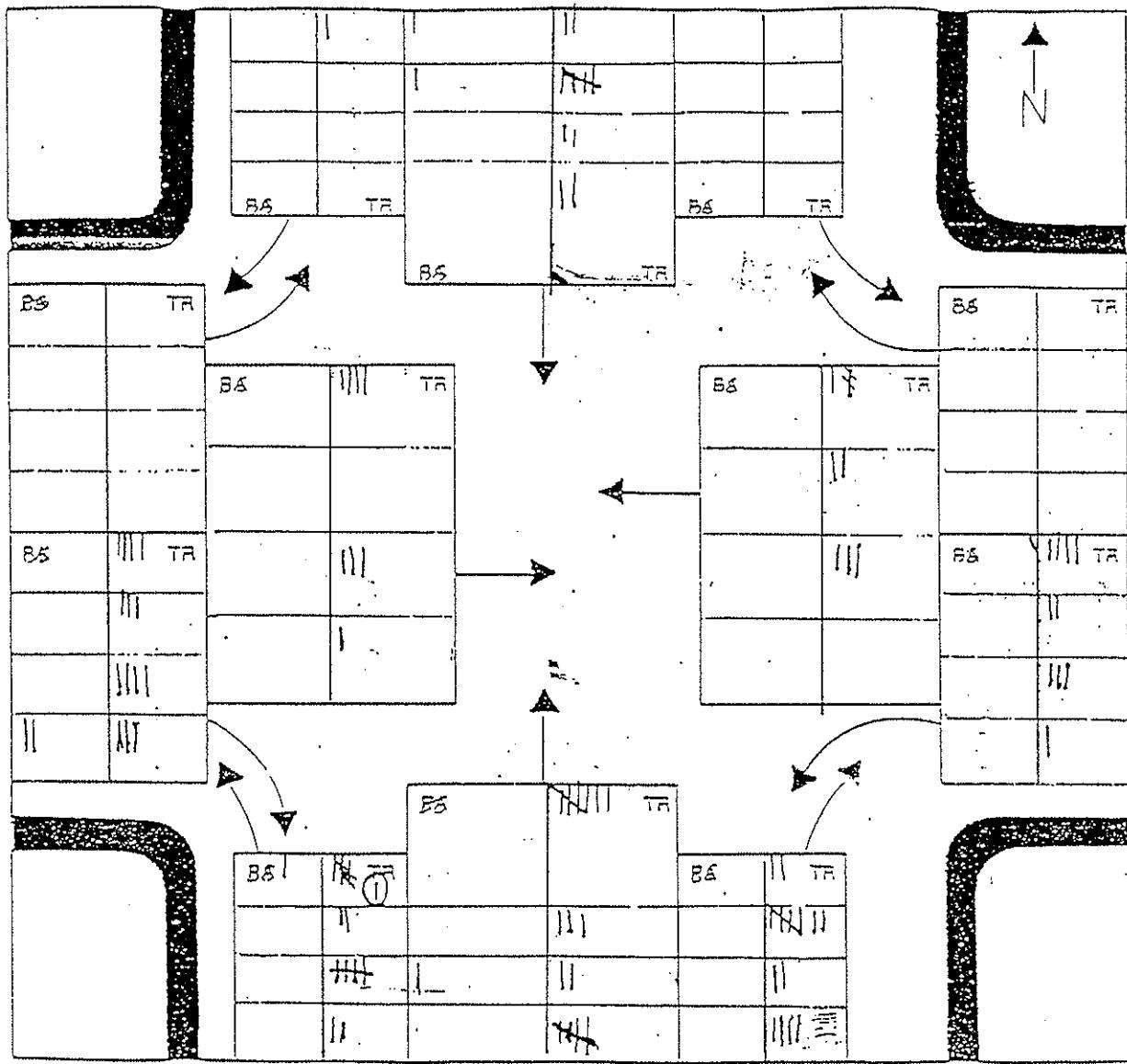


FIGURE 2-5  
VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.O. NS SR 39 EW Z-Hills Bypass  
 COUNTY PASCO CITY ZEPHERHILLS  
 DATE 9-22-98 TIME: FROM 12:00 TO 13:00  
 OBSERVER GEORGE R HILL WEATHER \_\_\_\_\_  
 REMARKS \_\_\_\_\_

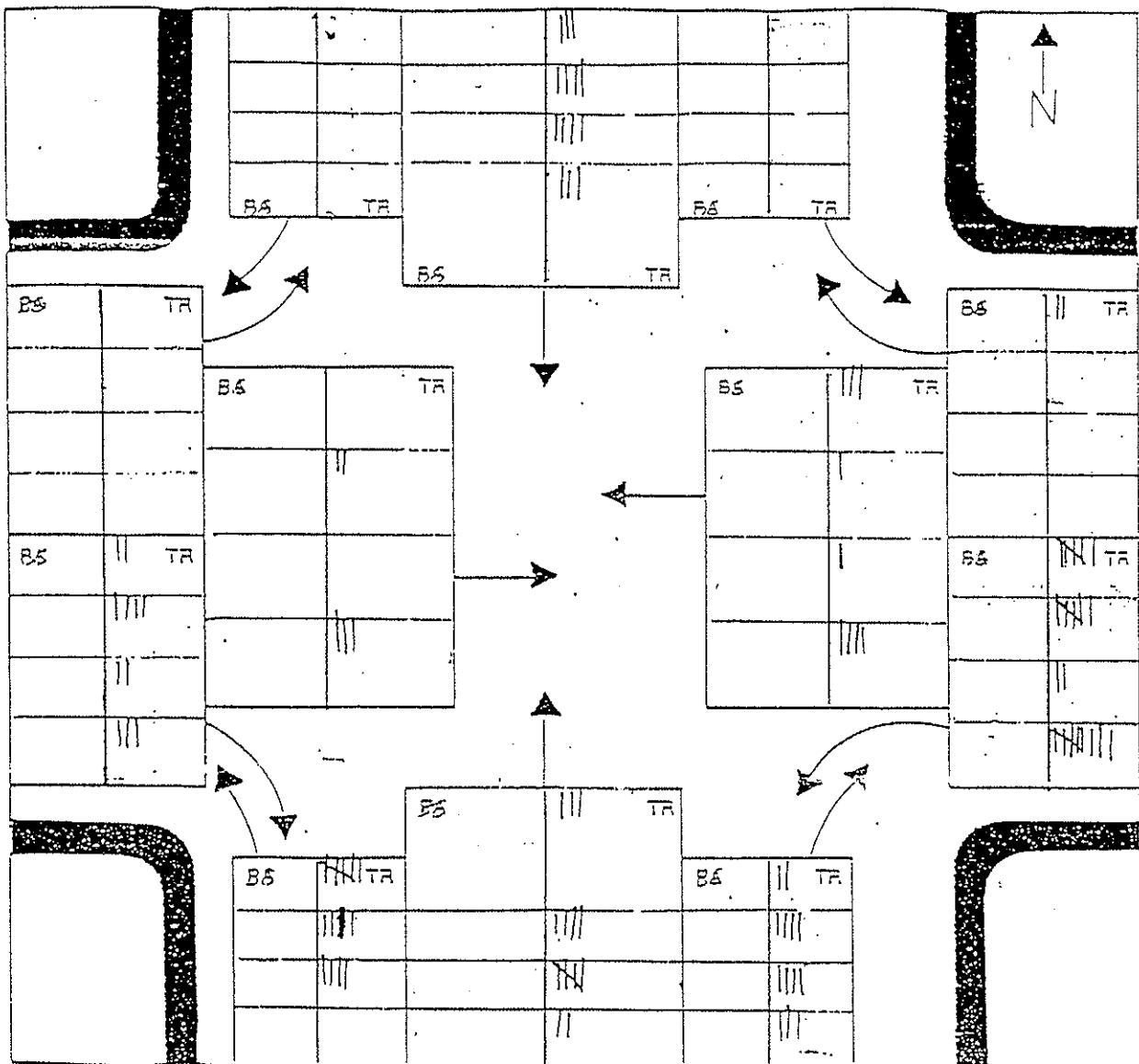


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D.-NS -

SR 39

.Ex

Z-Hills By Pass

COUNTY Pasco

SIX ZEPHERHILL

9-22-9

16:00      TO      17:00

DATE 4-22-74

TIME: FROM

10.

## OSSERVERE

WEATHER

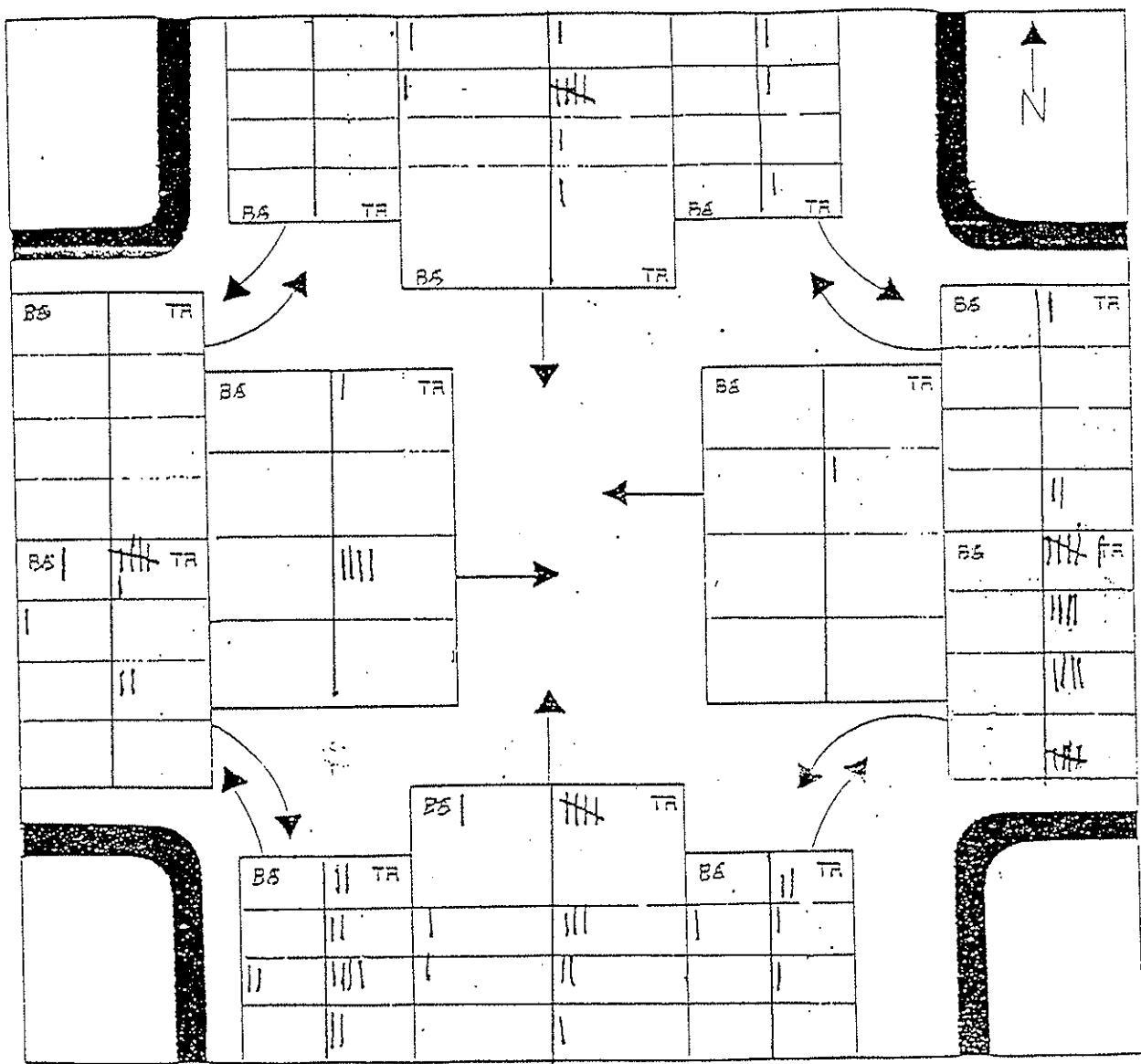


FIGURE 2-5

**VEHICLE MOVEMENT DATA FORM**

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS

SR39

EW

Z-Hills BypassCOUNTY PASCOCITY ZEPHER HILLSDATE 9-22-98

TIME FROM

1700TO 1800OBSERVER GEORGE R HILL

WEATHER

CLOUDY

REMARKS \_\_\_\_\_

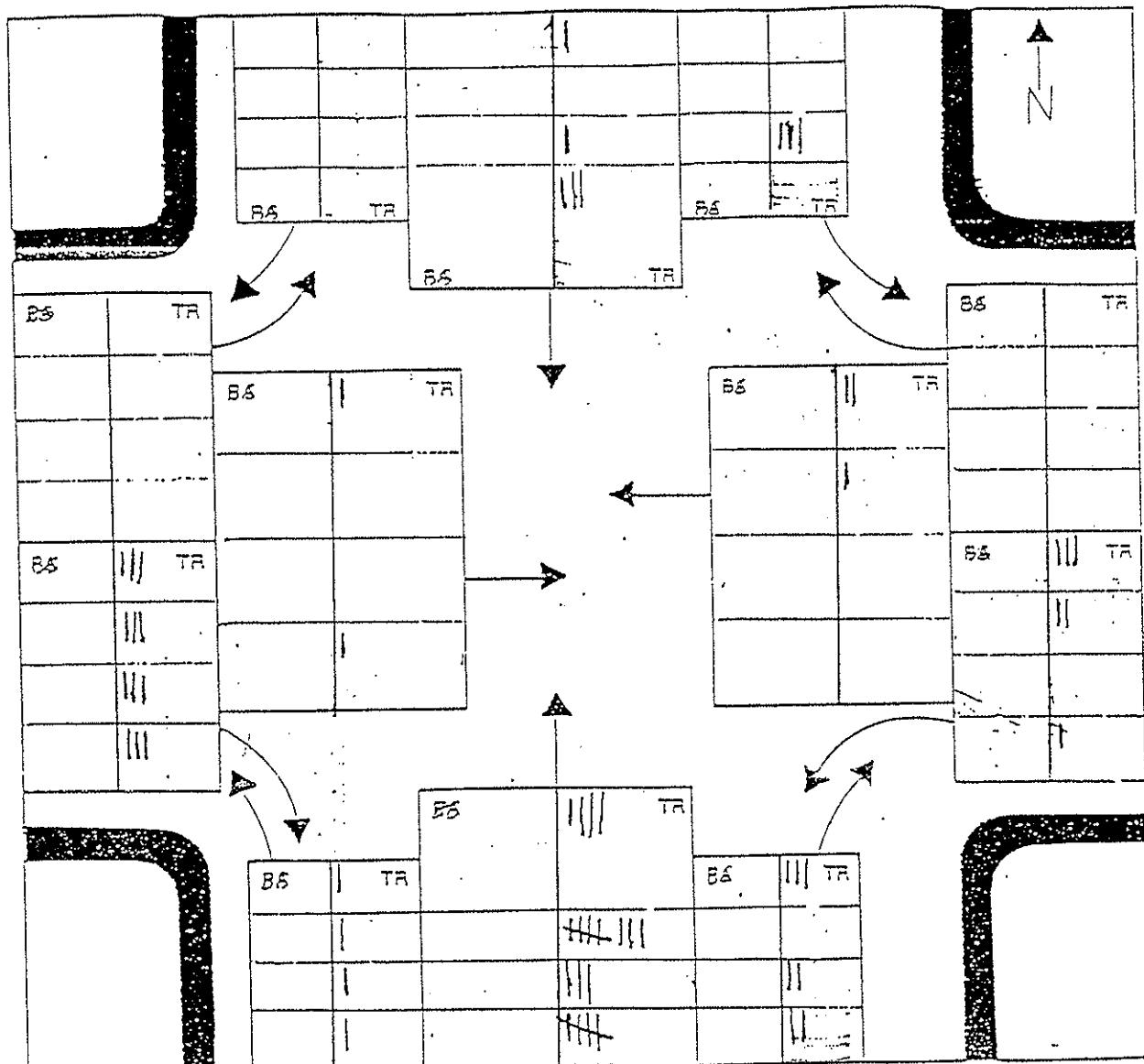


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. SR 39 e Z-Hills By PassCOUNTY PASCOCITY Z-HillsTYPE OF CONTROL SIGSTUDY DATE 9-22-98 TIME: FROM 6:00 AM TO 12:00 PM OBSERVER GRH

REMARKS \_\_\_\_\_

|   | 6-7 | 7-8 | 8-9 | 11-12 |
|---|-----|-----|-----|-------|
| P | 0   | 0   | 0   | 0     |
|   | 0   | 0   | 0   | 0     |
| B | 0   | 0   | 0   | 0     |
|   | 0   | 0   | 0   | 0     |

TIME PERIODS  
 DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   | 6-7 | 7-8 | 8-9 | 11-12 |
|---|-----|-----|-----|-------|
| P | 0   | 0   | 0   | 0     |
|   | 0   | 0   | 0   | 0     |
| B | 0   | 0   | 0   | 0     |
|   | 0   | 0   | 0   | 0     |

|   | 0 | 0 | 0 | 0 |
|---|---|---|---|---|
| P | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |
| B | 0 | 1 | 0 | 0 |
|   | 0 | 1 | 0 | 0 |

TOTALS

|   | 0 | 0 | 0 | 0 |
|---|---|---|---|---|
| P | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |
| B | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |

DISTANCE FT.

RAISED MEDIAN  YES  NO

N  
SR 39  
STREET

CHANKEY  
STREET

DISTANCE FT.

RAISED MEDIAN  YES  NO

|   | 0 | 0 | 0 | 0 |
|---|---|---|---|---|
| P | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |
| B | 0 | 1 | 0 | 0 |
|   | 0 | 1 | 0 | 0 |

TOTALS

|   | 0 | 0 | 0 | 0 |
|---|---|---|---|---|
| P | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |
| B | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |

|   | 0 | 0 | 0 | 0 |
|---|---|---|---|---|
| P | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |
| B | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |

DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   | 0 | 0 | 0 | 0 |
|---|---|---|---|---|
| P | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |
| B | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 |

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. SR 39 e Z-Hills By Pass  
 COUNTY PASCO CITY Z-Hills TYPE OF CONTROL SIG  
 STUDY DATE 9-22-98 TIME: FROM 12:00 AM TO 18:00 PM OBSERVER GRH  
 REMARKS \_\_\_\_\_

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |
| B | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |

TIME PERIODS  
 DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |
| B | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |
| B | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |

TOTALS

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |
| B | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |

DISTANCE FT.  
 RAISED MEDIAN  YES  NO

SR 39  
STREET

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |
| B | 0    | 0   | 1   | 0   |
|   | 0    | 0   | 1   | 0   |

TOTALS

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |
| B | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |
| B | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |

DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |
| B | 0    | 0   | 0   | 0   |
|   | 0    | 0   | 0   | 0   |

FLORIDA DEPARTMENT OF TRANSPORTATION  
 DISTRICT 7 WORK COPY  
 TRAFFIC OPERATIONS  
 REQUEST FORM

| IN OR <input checked="" type="radio"/> S. E. W. OF | MILE POST # | LOCAL STREET NAMES          | U.S. | S.R. | SECTION | LEG |
|--|-------------|-----------------------------|------|------|---------|-----|
| PLANT CITY   | 4.260       | SR 39 AT KNIGHTS GRIFFIN RD | —    | 39   | 10,200  | —   |

TYPE OF STUDY: BHRTMC 6-9, 11-1, 3-6 & Ped counts & Bikes  
 COUNTY: Hillsborough  
 NOTE Separate at Busses & Trucks

| SPEED ZONE | TRAFFIC SIGNAL | FLASHING BEACON | SCHOOL SPEED ZONE | UNAUTHORIZED TRAFFIC SIGNAL | DESIGN STUDY | REQUESTED BY: <u>Gabor</u>                         | DATE: 9-16-98 |
|------------|----------------|-----------------|-------------------|-----------------------------|--------------|--|---------------|
| X          | X              | X               | X                 | X                           | X            | PERFORMED BY: <u>John Perez</u>                    |               |
|            | 8              | 4               |                   | 8                           | 8            | JOB #: _____                                       |               |
| X          | X              | X               | X                 |                             |              | XXSTUDY XX   | DATE: _____   |
| X          | X              | X               |                   |                             | X            | FIELD SKETCH -----                                 | 9-22-98       |
| X          | X              | X               |                   |                             |              | TURNING MOVEMENTS (TO 501 OR 508) -----            |               |
| X          | X              | X               |                   |                             |              | SPEED CHECK (TO 503 OR 506) -----                  |               |
| X          | X              | X               |                   |                             |              | TRAFFIC COUNTS (TO 510 OR 570) -----               |               |
| X          | X              | X               |                   |                             |              | STOP SIGN OBSERVANCE (TO 518) -----                |               |
| X          | X              | X               |                   |                             |              | STOP & DELAY (TO 507) -----                        |               |
| X          | X              | X               |                   |                             |              | DRIVER OBSERVANCE OF TRAFFIC SIGNAL (TO 504) ----- |               |
| X          | X              | X               |                   |                             |              | PEDESTRIAN VOLUME (TO 502 OR 509) & Bikes -----    |               |
| X          | X              | X               |                   |                             |              | DELAY STUDY OF SIGNALIZED INTERSECTION -----       |               |
| X          | X              | X               |                   |                             |              | LEFT TURN STUDY (TO 513) -----                     |               |
| X          | X              | X               |                   |                             |              | OBSERVATION STUDY (TO 519) -----                   |               |

SPECIAL INSTRUCTIONS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

WEATHER CLOUDY  
Counter :  
COUNTED BY JP

JAMAR Technologies, Inc.  
Traffic Counting Equipment & Supplies  
2031 Stout Drive, Suite 4  
Ivyland, PA 18974

Site Code : 1020000  
Start Date: 09/22/9  
File I.D. : TURN}014  
Page : 1

Vehicle group 1

| Southbound            |      |      |       |       | Westbound |      |       |       |      | Northbound |       |       |      |      | Eastbound |       |       |  |  | Total |
|-----------------------|------|------|-------|-------|-----------|------|-------|-------|------|------------|-------|-------|------|------|-----------|-------|-------|--|--|-------|
|                       | Left | Thru | Right | Other | Left      | Thru | Right | Other | Left | Thru       | Right | Other | Left | Thru | Right     | Other |       |  |  |       |
| Date 09/22/98         |      |      |       |       |           |      |       |       |      |            |       |       |      |      |           |       |       |  |  |       |
| 06:00                 | 3    | 29   | 11    | 1     | 2         | 19   | 0     | 0     | 7    | 16         | 8     | 0     | 12   | 31   | 11        | 0     | 150   |  |  |       |
| 06:15                 | 22   | 80   | 8     | 0     | 11        | 23   | 19    | 0     | 1    | 30         | 1     | 0     | 8    | 6    | 12        | 0     | 221   |  |  |       |
| 06:30                 | 12   | 73   | 6     | 0     | 17        | 16   | 29    | 0     | 5    | 46         | 2     | 0     | 6    | 14   | 8         | 0     | 234   |  |  |       |
| 06:45                 | 24   | 91   | 5     | 0     | 14        | 33   | 28    | 0     | 5    | 35         | 0     | 0     | 13   | 11   | 14        | 0     | 273   |  |  |       |
| Hr Total              | 61   | 273  | 30    | 1     | 44        | 91   | 76    | 0     | 18   | 127        | 11    | 0     | 39   | 62   | 45        | 0     | 878   |  |  |       |
| 07:00                 | 15   | 67   | 8     | 0     | 12        | 26   | 17    | 0     | 9    | 24         | 9     | 0     | 4    | 14   | 16        | 0     | 221   |  |  |       |
| 07:15                 | 15   | 56   | 7     | 0     | 10        | 35   | 20    | 0     | 16   | 41         | 9     | 0     | 5    | 15   | 15        | 0     | 244   |  |  |       |
| 07:30                 | 17   | 73   | 16    | 0     | 11        | 39   | 25    | 0     | 15   | 34         | 3     | 0     | 3    | 16   | 14        | 0     | 266   |  |  |       |
| 07:45                 | 14   | 84   | 15    | 0     | 16        | 37   | 16    | 0     | 20   | 34         | 4     | 0     | 9    | 18   | 13        | 0     | 280   |  |  |       |
| Hr Total              | 61   | 280  | 46    | 0     | 49        | 137  | 78    | 0     | 60   | 133        | 25    | 0     | 21   | 63   | 58        | 0     | 1011. |  |  |       |
| 08:00                 | 16   | 66   | 12    | 0     | 13        | 27   | 16    | 0     | 5    | 28         | 4     | 0     | 9    | 21   | 21        | 0     | 238   |  |  |       |
| 08:15                 | 15   | 35   | 7     | 0     | 10        | 22   | 3     | 0     | 9    | 28         | 2     | 0     | 4    | 8    | 13        | 0     | 156   |  |  |       |
| 08:30                 | 11   | 42   | 2     | 0     | 8         | 20   | 8     | 0     | 10   | 21         | 8     | 0     | 0    | 13   | 12        | 0     | 155   |  |  |       |
| 08:45                 | 13   | 32   | 3     | 0     | 7         | 19   | 6     | 0     | 3    | 30         | 7     | 0     | 4    | 10   | 19        | 0     | 153   |  |  |       |
| Hr Total              | 55   | 175  | 24    | 0     | 38        | 88   | 33    | 0     | 27   | 107        | 21    | 0     | 17   | 52   | 65        | 0     | 702   |  |  |       |
| ----- * BREAK * ----- |      |      |       |       |           |      |       |       |      |            |       |       |      |      |           |       |       |  |  |       |
| :1:00                 | 7    | 32   | 1     | 0     | 13        | 10   | 4     | 0     | 5    | 23         | 4     | 0     | 3    | 7    | 12        | 0     | 121   |  |  |       |
| :1:15                 | 3    | 39   | 4     | 0     | 6         | 10   | 7     | 0     | 7    | 29         | 9     | 0     | 1    | 11   | 7         | 0     | 133   |  |  |       |
| :1:30                 | 9    | 39   | 3     | 0     | 5         | 13   | 7     | 0     | 7    | 35         | 6     | 0     | 4    | 15   | 10        | 0     | 153   |  |  |       |
| :1:45                 | 5    | 29   | 2     | 0     | 7         | 10   | 10    | 0     | 9    | 28         | 2     | 0     | 3    | 8    | 5         | 0     | 118   |  |  |       |
| Hr Total              | 24   | 139  | 10    | 0     | 31        | 43   | 28    | 0     | 28   | 115        | 21    | 0     | 11   | 41   | 34        | 0     | 525   |  |  |       |
| 2:00                  | 6    | 23   | 2     | 0     | 5         | 5    | 8     | 0     | 8    | 42         | 7     | 0     | 3    | 7    | 3         | 0     | 119   |  |  |       |
| 2:15                  | 9    | 34   | 1     | 0     | 4         | 4    | 4     | 0     | 7    | 24         | 8     | 0     | 3    | 6    | 4         | 0     | 108   |  |  |       |
| 2:30                  | 6    | 26   | 4     | 1     | 10        | 11   | 10    | 0     | 5    | 22         | 4     | 0     | 3    | 6    | 7         | 0     | 115   |  |  |       |
| 2:45                  | 10   | 25   | 2     | 0     | 6         | 11   | 7     | 0     | 9    | 27         | 5     | 0     | 3    | 7    | 8         | 0     | 120   |  |  |       |
| Hr Total              | 31   | 108  | 9     | 1     | 25        | 31   | 29    | 0     | 29   | 115        | 24    | 0     | 12   | 26   | 22        | 0     | 462   |  |  |       |
| ----- * BREAK * ----- |      |      |       |       |           |      |       |       |      |            |       |       |      |      |           |       |       |  |  |       |
| :3:00                 | 10   | 46   | 4     | 0     | 10        | 9    | 8     | 0     | 10   | 39         | 12    | 0     | 3    | 8    | 14        | 0     | 173   |  |  |       |
| :3:15                 | 10   | 29   | 5     | 0     | 5         | 21   | 5     | 0     | 9    | 40         | 6     | 0     | 4    | 15   | 11        | 0     | 160   |  |  |       |
| :3:30                 | 22   | 50   | 9     | 0     | 9         | 6    | 11    | 0     | 19   | 58         | 10    | 0     | 5    | 18   | 9         | 0     | 226   |  |  |       |
| :3:45                 | 24   | 58   | 5     | 0     | 14        | 14   | 22    | 0     | 11   | 39         | 9     | 0     | 7    | 21   | 14        | 0     | 238   |  |  |       |
| Hr Total              | 66   | 183  | 23    | 0     | 38        | 50   | 46    | 0     | 49   | 176        | 37    | 0     | 19   | 62   | 48        | 0     | 797   |  |  |       |
| :4:00                 | 11   | 34   | 6     | 0     | 7         | 18   | 17    | 1     | 12   | 52         | 14    | 0     | 6    | 19   | 17        | 0     | 214   |  |  |       |
| :4:15                 | 6    | 48   | 2     | 0     | 10        | 16   | 13    | 0     | 15   | 65         | 10    | 0     | 4    | 21   | 9         | 0     | 219   |  |  |       |
| :4:30                 | 8    | 35   | 6     | 0     | 9         | 19   | 14    | 0     | 13   | 57         | 10    | 0     | 9    | 23   | 6         | 0     | 209   |  |  |       |
| :4:45                 | 16   | 30   | 4     | 0     | 12        | 19   | 10    | 0     | 14   | 64         | 24    | 0     | 5    | 23   | 9         | 0     | 230   |  |  |       |
| Total                 | 41   | 147  | 18    | 0     | 38        | 72   | 54    | 1     | 54   | 238        | 58    | 0     | 24   | 86   | 41        | 0     | 872   |  |  |       |

WEATHER CLOUDY  
Counter :  
COUNTED BY JP

JAMAR Technologies, Inc.  
Traffic Counting Equipment & Supplies  
2031 Stout Drive, Suite 4  
Ivyland, PA 18974

Site Code : 10200000  
Start Date: 09/22/98  
File I.D. : TURN}014  
Page : 2

Vehicle group 1

| Date          | Southbound |      |       |       | Westbound |      |       |       | Northbound |      |       |       | Eastbound |      |       |       | Total |
|---------------|------------|------|-------|-------|-----------|------|-------|-------|------------|------|-------|-------|-----------|------|-------|-------|-------|
|               | Left       | Thru | Right | Other | Left      | Thru | Right | Other | Left       | Thru | Right | Other | Left      | Thru | Right | Other |       |
| Date 09/22/98 |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| 17:00         | 17         | 41   | 6     | 0     | 8         | 25   | 15    | 0     | 19         | 68   | 13    | 0     | 4         | 23   | 14    | 0     | 253   |
| 17:15         | 13         | 40   | 6     | 0     | 10        | 26   | 26    | 0     | 17         | 78   | 21    | 0     | 8         | 33   | 12    | 0     | 290   |
| 17:30         | 22         | 43   | 3     | 0     | 9         | 28   | 32    | 0     | 11         | 66   | 14    | 0     | 7         | 42   | 14    | 0     | 291   |
| 17:45         | 18         | 44   | 5     | 0     | 11        | 19   | 21    | 0     | 10         | 75   | 15    | 0     | 12        | 37   | 14    | 0     | 281   |
| Hr Total      | 70         | 168  | 20    | 0     | 38        | 98   | 94    | 0     | 57         | 287  | 63    | 0     | 31        | 135  | 54    | 0     | 1115  |
| *TOTAL*       | 409        | 1473 | 180   | 2     | 301       | 610  | 438   | 1     | 322        | 1298 | 260   | 0     | 174       | 527  | 367   | 0     | 6362  |

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR. 39 E KNIGHTS / GRIFFIN RD. EW  
COUNTY Hills CITY PLANT CITY  
DATE 9-22-98 TIME: FROM 6:AM TO 6:45  
OBSERVER JOHN PEKEZ WEATHER cloudy  
REMARKS

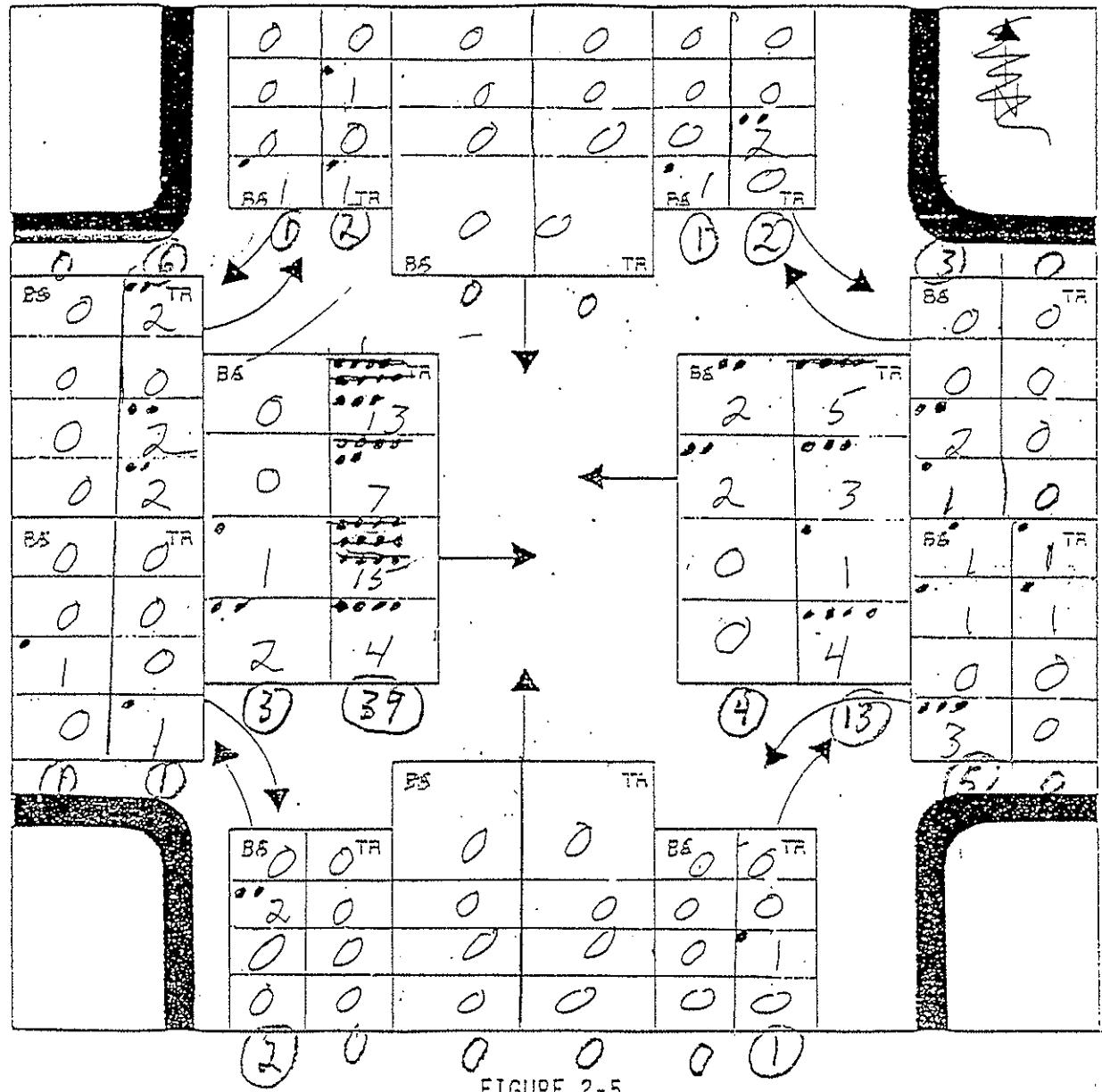


FIGURE 2-5

VOTE: EACH square

REPRESENT 15 min. (Source: Florida Department of Transportation)

VEHICLE MOVEMENT DATA FORM

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.O. NS SR. 39 @ KNIGHTS, GRIFFIN RD SW

COUNTY Hills

CITY Plant City

DATE 9-22-98

TIME: FROM 7 AM

TO 7:45

OBSERVER JOHN PEREZ

WEATHER cloudy

REMARKS

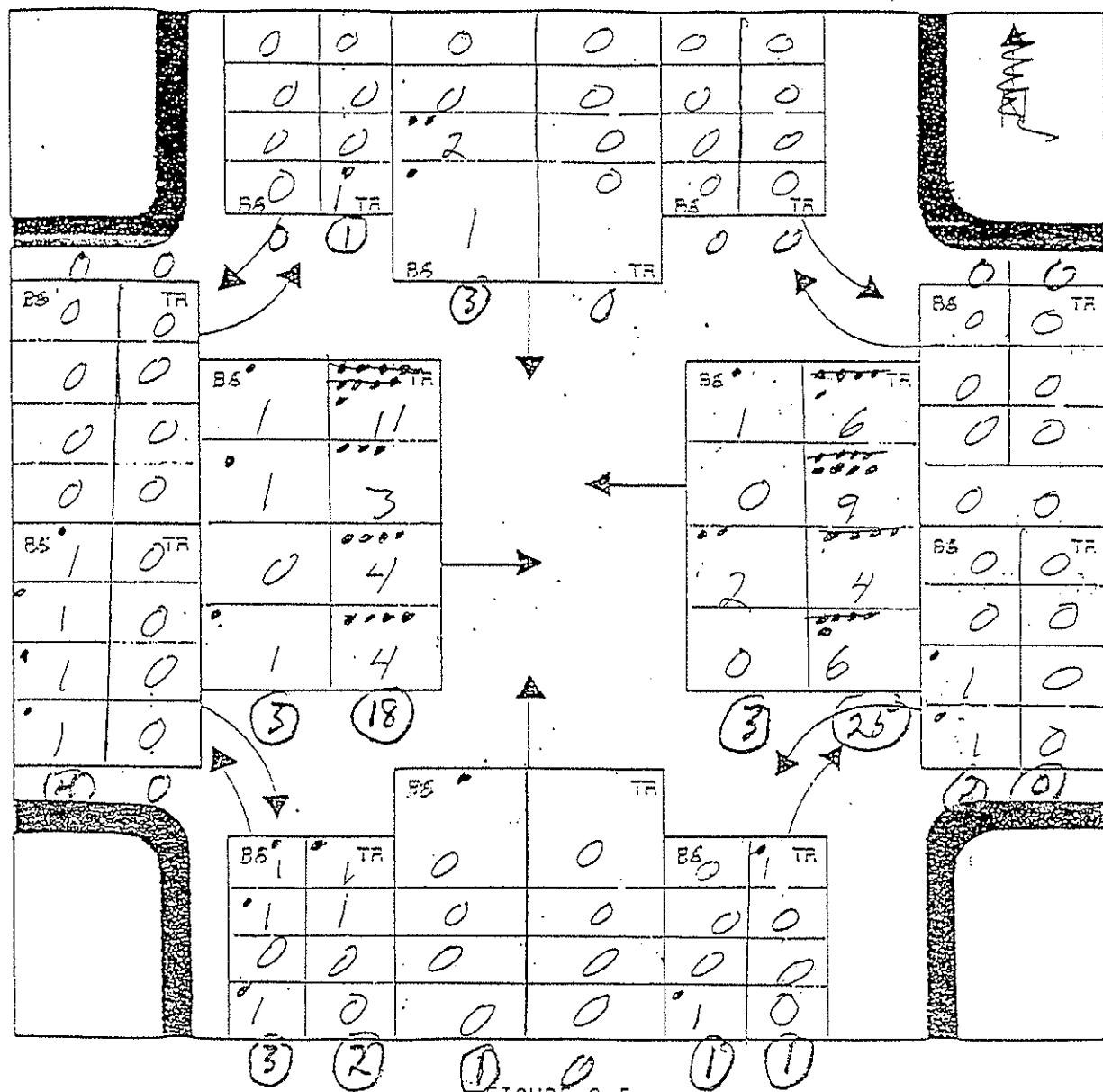


FIGURE 2-5

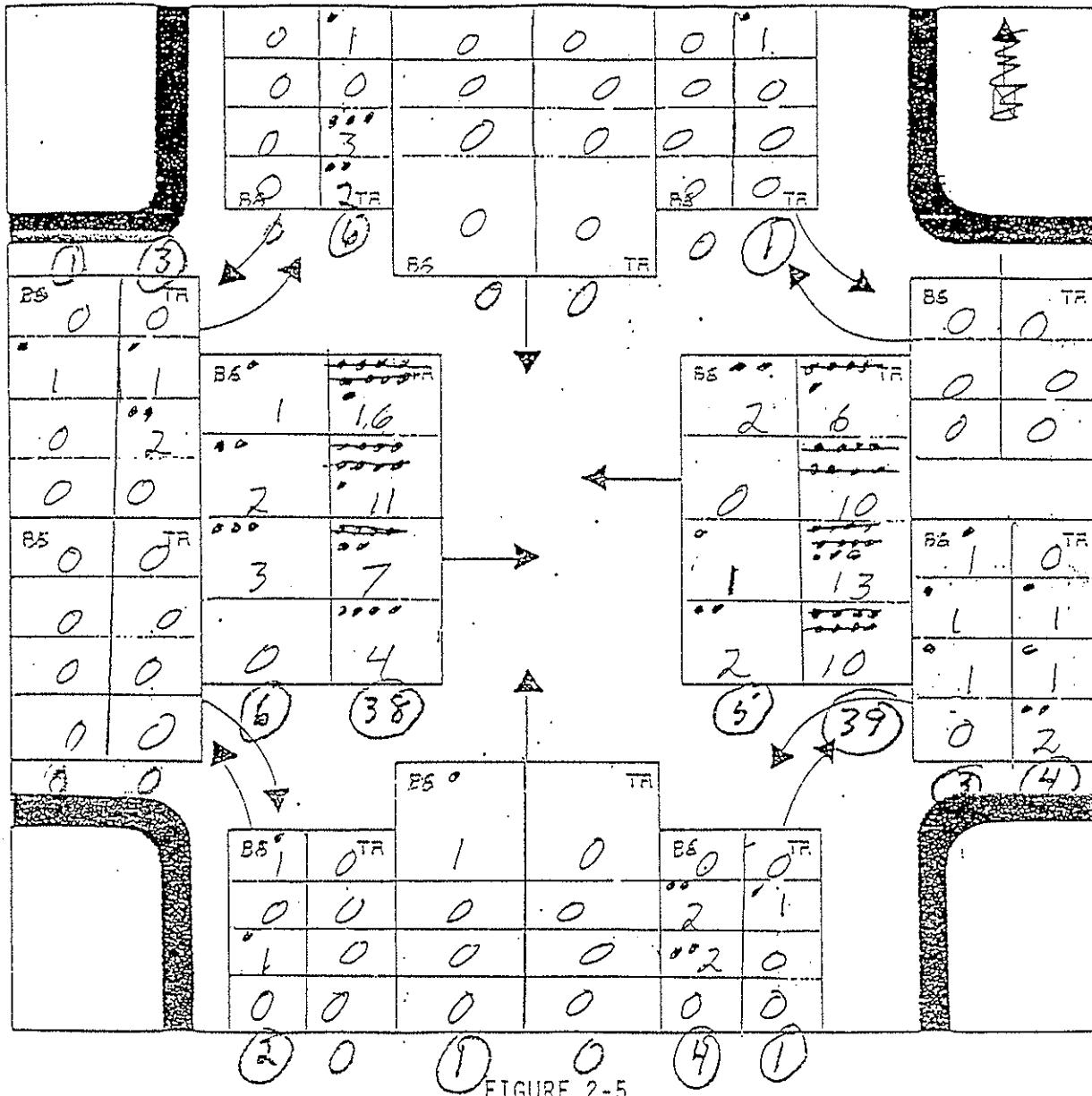
NOTE: EACH SQUARE

VEHICLE MOVEMENT DATA FORM

REPRESENT 15 MIN. (Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR. 39 & KNIGHTS, YERGRIFFIN RD. EW  
COUNTY Hills CITY Plant City  
DATE 9-12-98 TIME FROM 8:1 AM TO 8:45 AM  
OBSERVER JOHN PEKER WEATHER cloudy  
REMARKS



NOTE: EACH SQUARE

VEHICLE MOVEMENT DATA FORM

PRESENT 15 min. (Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR. 39 & KNIGHTS, GRIFFIN RD. EW  
COUNTY Hills CITY Plant City  
DATE 9-22-98 TIME FROM 11: AM TO 11:45  
OBSERVER JAHN PEREZ WEATHER cloudy  
REMARKS

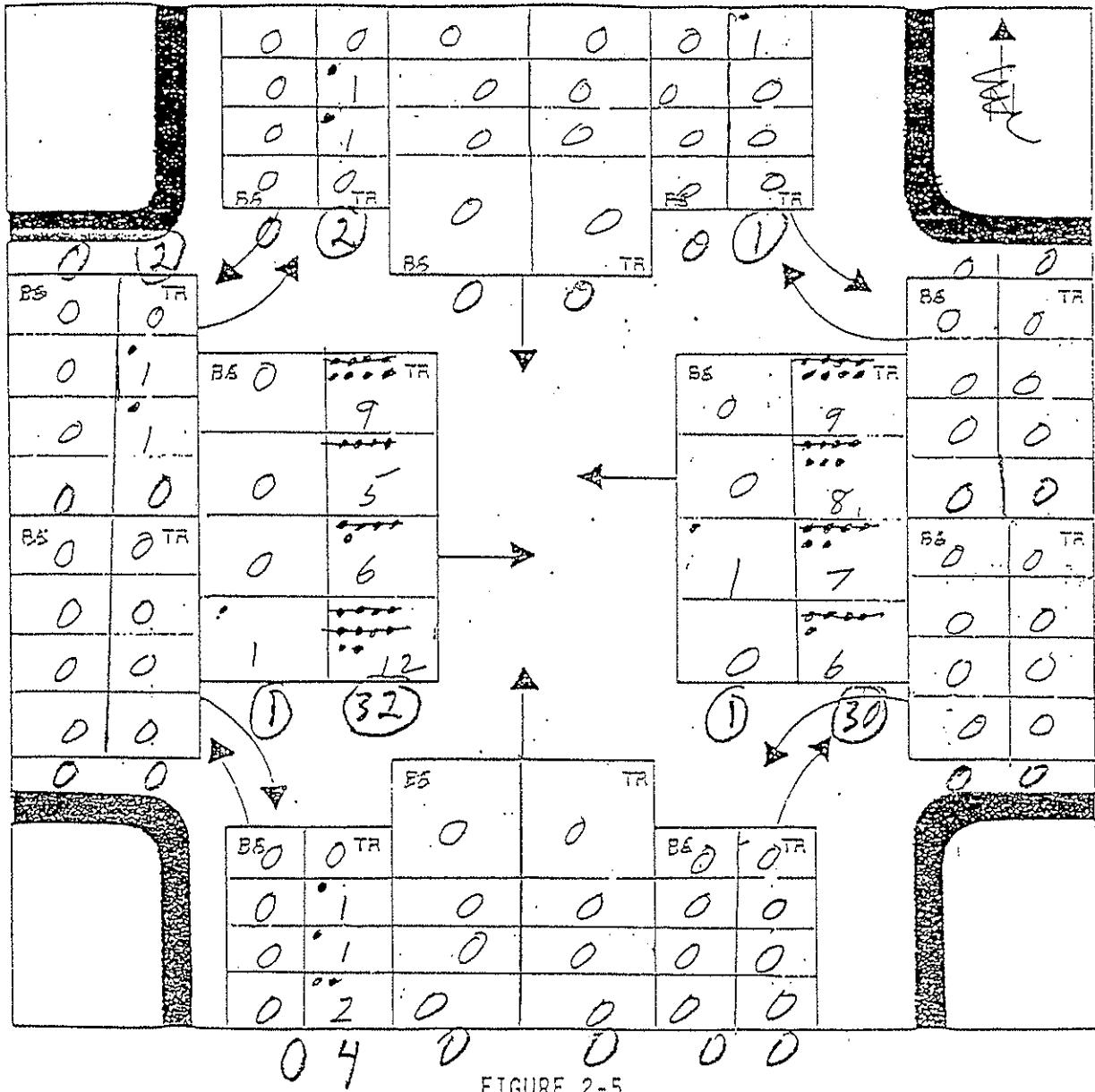


FIGURE 2-5

NOTE: EACH SQUARE  
REPRESENT 15 MIN. (Source: Florida Department of Transportation)

VEHICLE MOVEMENT DATA FORM

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR. 395 KNIGHTS, GRIFFIN RD. EW  
COUNTY Hills CITY Plant City  
DATE 9-32-78 TIME FROM 12:00 TO 1: P.M.  
OBSERVER JOHN PEREZ WEATHER cloudy  
REMARKS

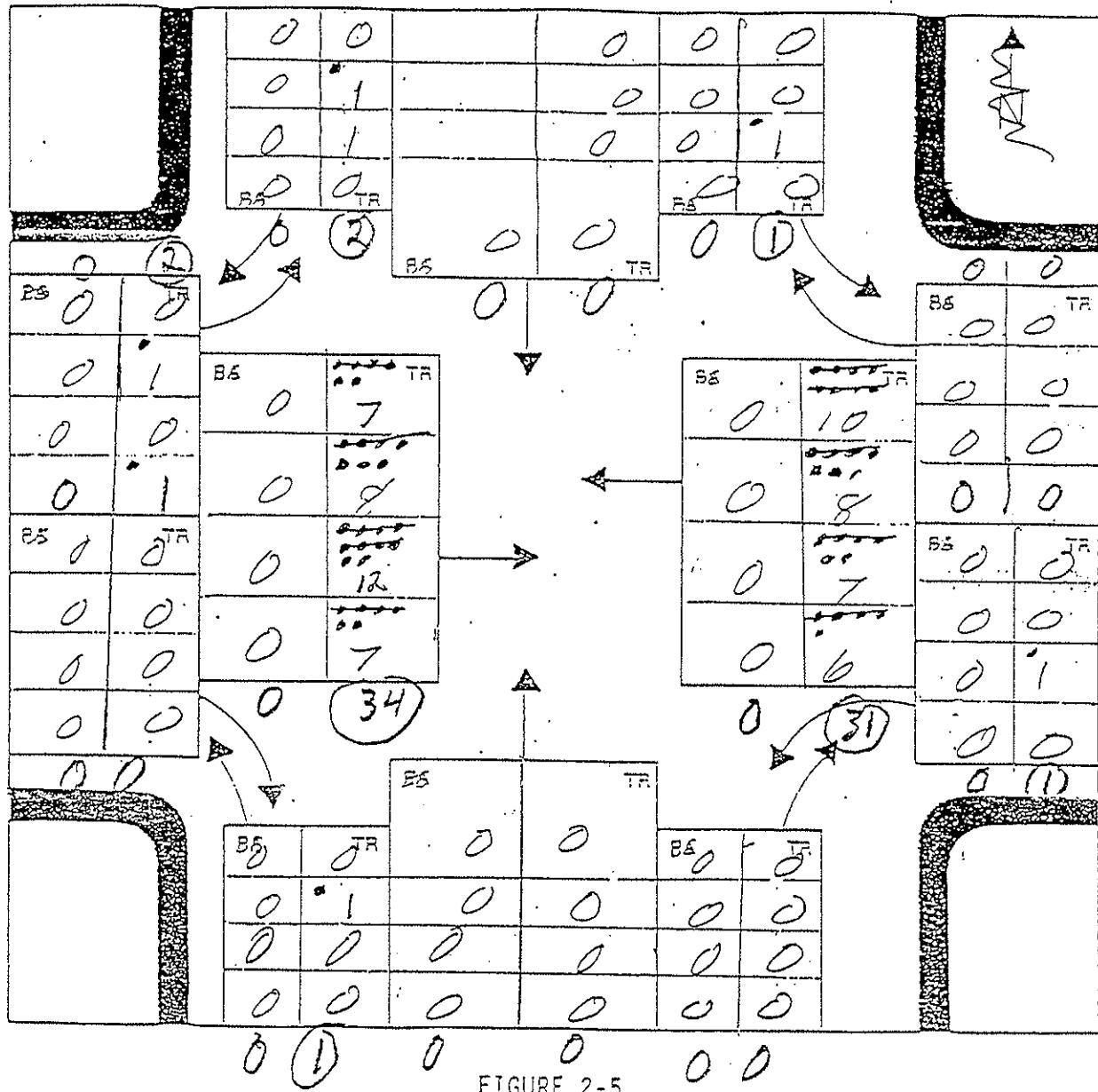


FIGURE 2-5

NOTE: EACH SQUARE

PRESENT VEHICLE MOVEMENT DATA FORM

REPRESENT 15 MIN. (Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR. 39 & KNIGHTS, Y GRIFFIN RD. EH  
COUNTY Hills CITY Plant City  
DATE 9-22-99 TIME FROM 3: P.M. TO 3:45  
OBSERVER John Perez WEATHER RAINING  
REMARKS

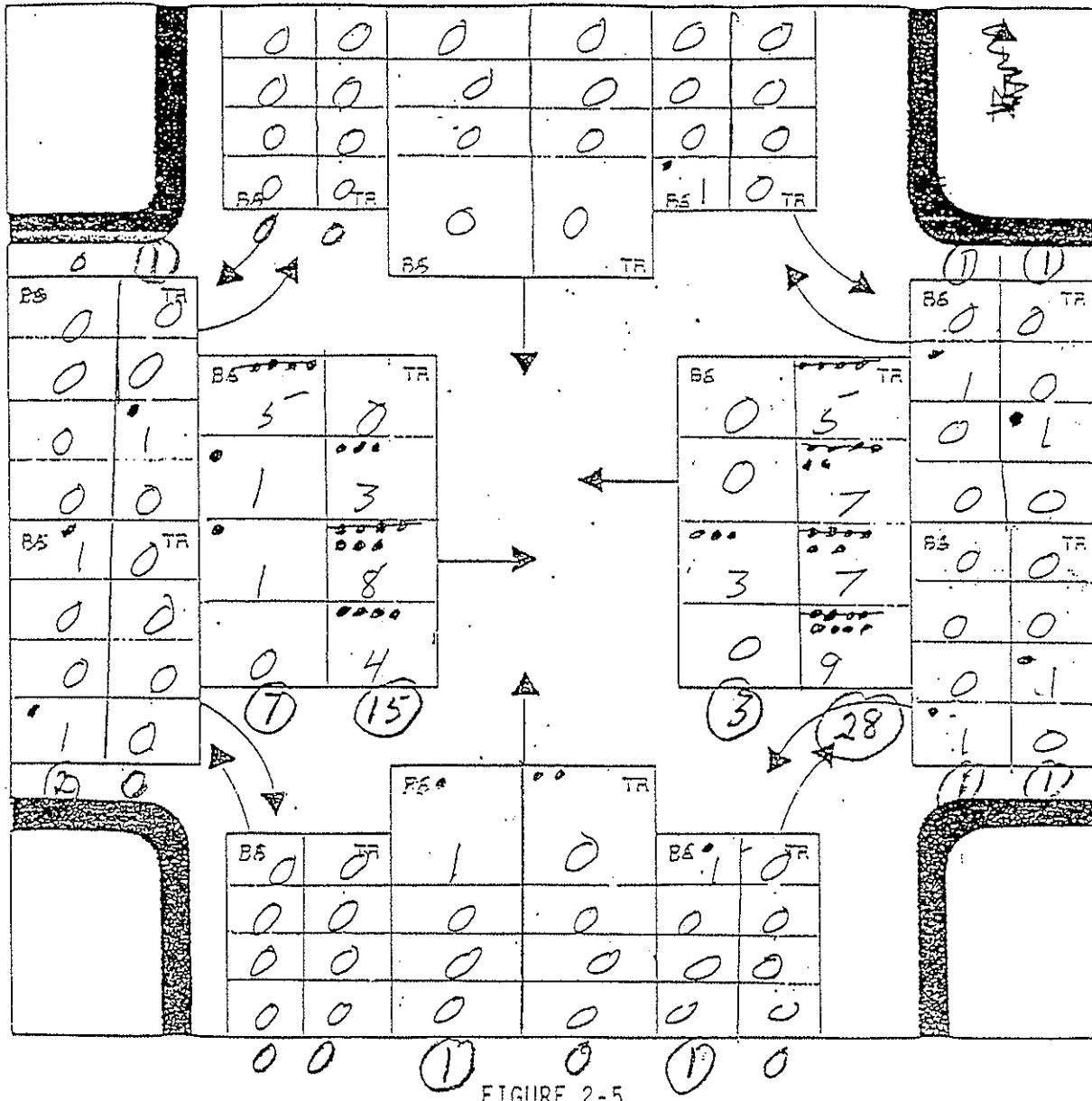


FIGURE 2-5

NOTE: EACH SQUARE

PRESENT 15 MIN. VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

**FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM**

LOCATION I.D. NS SR. 39 E KNIGHTS, GRIFFIN RD. EW  
COUNTY HILLS CITY PLANT CITY  
DATE 9-22-98 TIME FROM 4: P.M. TO 4:45  
OBSERVER JOHN PEKEZ WEATHER RAINING  
REMARKS

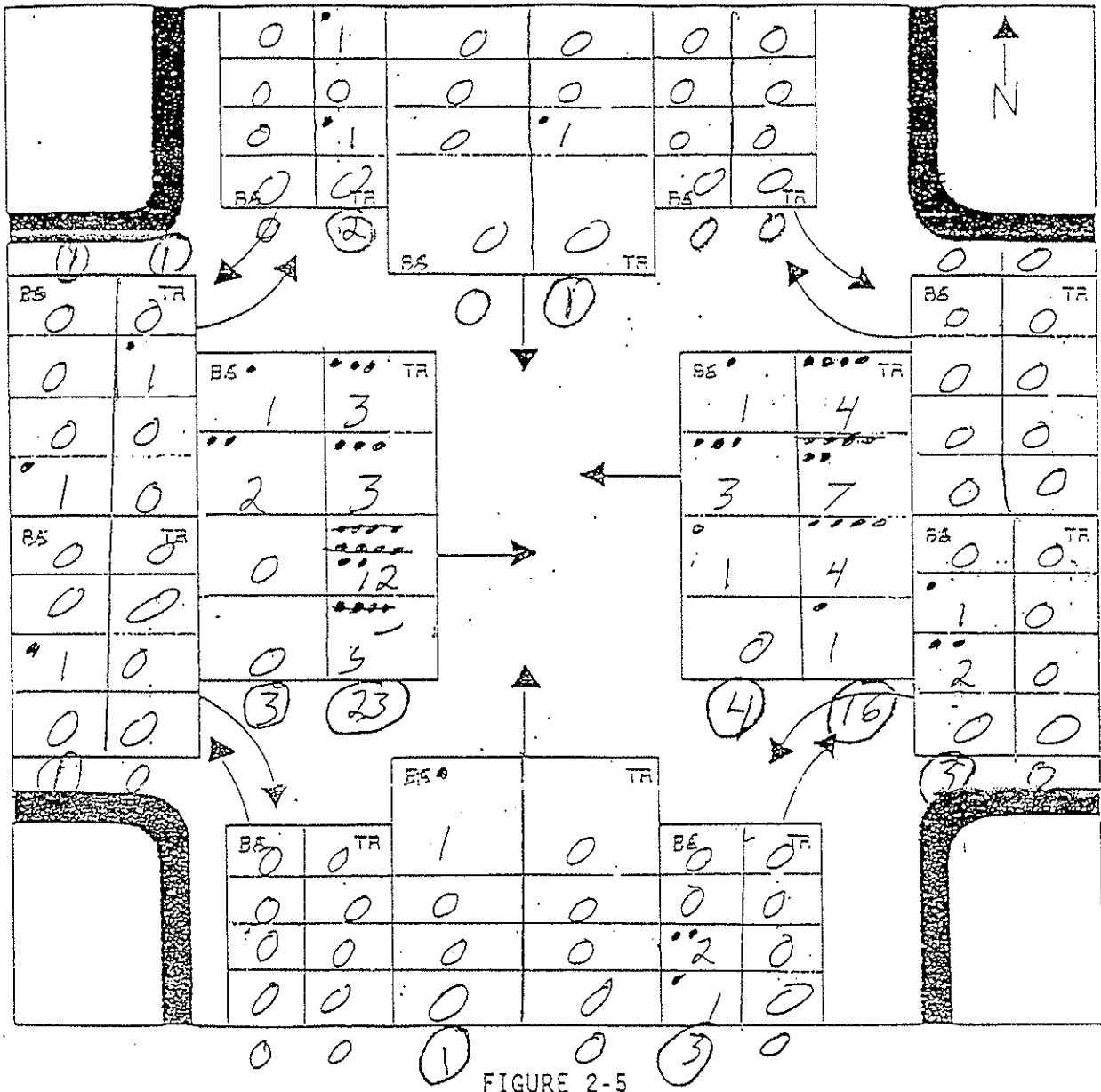


FIGURE 2-5

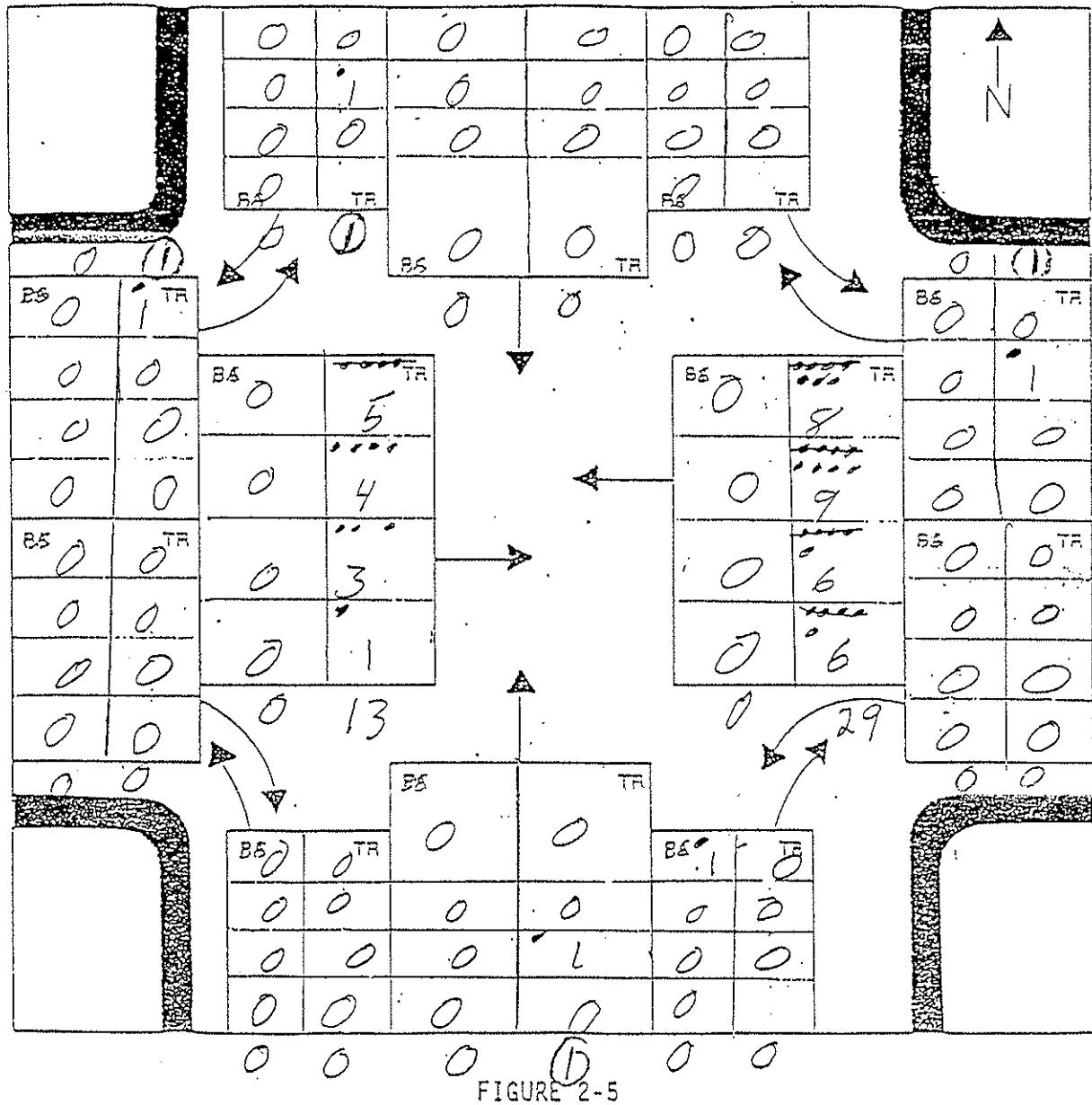
NOTE: EACH SQUARE  
REPRESENT 15 min.

VEHICLE MOVEMENT DATA FORM

REPRESENT 15 min. (Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR. 39 AT KNIGHTS / GRIFFIN RD EW  
 COUNTY Hills CITY Plant City  
 DATE 9-12-98 TIME FROM 5: P.M. TO 5:45  
 OBSERVER JOHN PEKEZ WEATHER cloudy  
 REMARKS



NOTE: EACH SQUARE  
REPRESENT 15 MIN. (Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. S.P. 39 @ KNIGHT AND GRIFFIN RD  
 COUNTY HILLS CITY PLANT CITY TYPE OF CONTROL  
 STUDY DATE 9-22-98 TIME: FROM AM TO PM OBSERVER J.P.  
 REMARKS \_\_\_\_\_

|   | 6-7 | 7-8 | 8-9 | 11-12 |
|---|-----|-----|-----|-------|
| P |     |     |     |       |
|   |     |     |     |       |
|   |     |     |     |       |
|   |     |     |     |       |

TIME FT.  
 DISTANCE FT.  
 PERIODS  
 RAISED MEDIAN  
 NO  
 YES  
 TOTALS

|  | 6-7 | 7-8 | 8-9 | 11-12 |
|--|-----|-----|-----|-------|
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DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 STREET

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71

**FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM**

LOCATION I.D. S.R. 39 E Knight and GRIFFIN RD.  
 COUNTY HILLS CITY PLANT CITY TYPE OF CONTROL   
 STUDY DATE 9-22-98 TIME: FROM AM TO PM OBSERVER J.P.  
 REMARKS \_\_\_\_\_

12-1 3-4 4-5 5-6

|   | — | — | — | — |
|---|---|---|---|---|
| P |   |   |   |   |
| B |   |   |   |   |
|   |   |   |   |   |

TIME PERIODS  
 DISTANCE FT. RAISED MEDIAN  
 NO  YES  
 TOTALS

12-1 3-4 4-5 5-6

|  | — | — | — | — |
|--|---|---|---|---|
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TOTALS



STREET

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DISTANCE FT.  
 RAISED MEDIAN  YES  NO

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TOTALS

STREET

DISTANCE FT.  
 RAISED MEDIAN  
 NO  YES  
 TOTALS



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TOTALS



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MISSOURI AIRPORT DISTRICT 7 WORK COPY

TRAFFIC OPERATIONS REQUEST FORM

|  |             |                       |     |     |         |   |
|--|-------------|-----------------------|-----|-----|---------|---|
| IN OR <input checked="" type="checkbox"/> S., E., W., OF | WILE POST # | LOCAL STREET NAMES    | U S | S R | SECTION |   |
| Phantom City.  | 2,196       | SR 37 AT SAM ALLEN RD | —   | 39  | 10200   | - |

TYPE OF STUDY: BHR TMC 6-9, 11-1, 3-6 & Ped & Bicycle Count  
 NOTE: Separate out Busses & Heavy Trucks COUNTY: Hillsborough

| SPEED ZONE | TRAFFIC SIGNAL | FLASHING BEACON | SCHOOL SPEED ZONE | UNAUTHORIZED TRAFFIC SIGNAL | DESIGN STUDY | REQUESTED BY: <u>Gabor</u>      | DATE: 9-16- |
|------------|----------------|-----------------|-------------------|-----------------------------|--------------|---------------------------------|-------------|
|            |                |                 |                   |                             |              | PERFORMED BY: <u>JOHN PEREZ</u> |             |
|            |                |                 |                   |                             |              | JOB #: _____                    |             |

\*\*STUDY\*\*

|   |   |   |   |   |   |   |              |
|---|---|---|---|---|---|---|--------------|
| X | X | X | X | X | X | FIELD SKETCH -----                                      | DATE 9-26-78 |
|   | 8 | 4 |   | 8 | 8 | TURNING MOVEMENTS (TO 501 OR 508) -----                 |              |
| X | X | X | X |   |   | SPEED CHECK (TO 503 OR 506) -----                       |              |
| X | X |   |   |   | X | TRAFFIC COUNTS (TO 510 OR 570) -----                    |              |
| X | X |   |   |   |   | STOP SIGN OBSERVANCE (TO 518) -----                     |              |
| X |   |   |   |   |   | STOP & DELAY (TO 507) -----                             |              |
| X | X | X | X | X | X | DRIVER OBSERVANCE OF TRAFFIC SIGNAL (TO 504) -----      |              |
|   |   |   |   |   |   | PEDESTRIAN VOLUME (TO 502 OR 509) <u>E. Bikes</u> ----- |              |
| X |   |   |   |   |   | DELAY STUDY OF SIGNALIZED INTERSECTION -----            |              |
|   | X | X | X |   |   | LEFT TURN STUDY (TO 513) -----                          |              |
|   |   |   |   |   |   | OBSERVATION STUDY (TO 519) -----                        |              |

SPECIAL INSTRUCTIONS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

BATHER CLOUDY  
Counter :  
OUNTED BY JP

Traffic Counting Equipment & Supplies  
2031 Stout Drive, Suite 4  
Ivyland, PA 18974

Site Code : 10200000  
Start Date: 09/21/98  
File I.D. : TURN}001  
Page : 1

Vehicle group 1

|              | Southbound |      |       |       | Westbound |      |       |       | Northbound |      |       |       | Eastbound |      |       |       | Total |
|--------------|------------|------|-------|-------|-----------|------|-------|-------|------------|------|-------|-------|-----------|------|-------|-------|-------|
|              | Left       | Thru | Right | Other | Left      | Thru | Right | Other | Left       | Thru | Right | Other | Left      | Thru | Right | Other |       |
| ate 09/21/98 |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| 6:15         | 22         | 68   | 2     | 0     | 9         | 5    | 11    | 0     | 9          | 21   | 4     | 0     | 2         | 7    | 6     | 0     | 166   |
| 6:30         | 28         | 81   | 4     | 0     | 21        | 4    | 16    | 0     | 9          | 37   | 3     | 0     | 4         | 13   | 4     | 0     | 224   |
| 6:45         | 33         | 108  | 4     | 0     | 16        | 7    | 17    | 1     | 10         | 31   | 2     | 0     | 3         | 9    | 15    | 1     | 257   |
| 7:00         | 22         | 85   | 5     | 0     | 20        | 15   | 15    | 0     | 10         | 33   | 8     | 0     | 3         | 12   | 19    | 0     | 247   |
| Total        | 105        | 342  | 15    | 0     | 66        | 31   | 59    | 1     | 38         | 122  | 17    | 0     | 12        | 41   | 44    | 1     | 894   |
|              |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| 7:15         | 27         | 96   | 2     | 0     | 12        | 22   | 24    | 0     | 20         | 51   | 6     | 0     | 5         | 9    | 14    | 0     | 288   |
| 7:30         | 19         | 71   | 6     | 0     | 20        | 16   | 21    | 0     | 12         | 45   | 6     | 0     | 3         | 18   | 19    | 0     | 256   |
| 7:45         | 29         | 102  | 4     | 0     | 29        | 16   | 19    | 0     | 14         | 41   | 11    | 0     | 7         | 26   | 33    | 0     | 331   |
| 8:00         | 30         | 85   | 3     | 0     | 15        | 18   | 14    | 0     | 15         | 32   | 14    | 0     | 4         | 20   | 24    | 0     | 274   |
| Total        | 105        | 354  | 15    | 0     | 76        | 72   | 78    | 0     | 61         | 169  | 37    | 0     | 19        | 73   | 90    | 0     | 1149  |
|              |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| :15          | 23         | 67   | 5     | 0     | 16        | 6    | 10    | 0     | 15         | 33   | 6     | 0     | 7         | 16   | 13    | 0     | 217   |
| :30          | 18         | 52   | 5     | 0     | 15        | 9    | 9     | 0     | 13         | 30   | 7     | 0     | 3         | 17   | 8     | 0     | 186   |
| :45          | 16         | 54   | 4     | 0     | 25        | 6    | 11    | 0     | 18         | 30   | 11    | 0     | 4         | 9    | 18    | 0     | 206   |
| :00          | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0     |
| Total        | 57         | 173  | 14    | 0     | 56        | 21   | 30    | 0     | 46         | 93   | 24    | 0     | 14        | 42   | 39    | 0     | 609   |
|              |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| * BREAK *    |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| :15          | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0     |
| :30          | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0     |
| :45          | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0     |
| :00          | 5          | 43   | 9     | 0     | 17        | 8    | 18    | 0     | 16         | 40   | 14    | 0     | 5         | 10   | 11    | 0     | 196   |
| Total        | 5          | 43   | 9     | 0     | 17        | 8    | 18    | 0     | 16         | 40   | 14    | 0     | 5         | 10   | 11    | 0     | 196   |
|              |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| :15          | 12         | 51   | 5     | 0     | 22        | 16   | 19    | 0     | 15         | 39   | 14    | 0     | 4         | 6    | 18    | 0     | 221   |
| :30          | 11         | 53   | 1     | 0     | 11        | 13   | 15    | 0     | 18         | 49   | 18    | 0     | 3         | 12   | 21    | 0     | 223   |
| :45          | 8          | 60   | 6     | 0     | 10        | 6    | 11    | 0     | 17         | 41   | 16    | 0     | 5         | 3    | 14    | 0     | 199   |
| :00          | 14         | 48   | 7     | 0     | 17        | 12   | 17    | 0     | 18         | 42   | 13    | 0     | 4         | 8    | 9     | 0     | 209   |
| Total        | 45         | 212  | 19    | 0     | 60        | 49   | 62    | 0     | 68         | 171  | 61    | 0     | 16        | 29   | 62    | 0     | 554   |
|              |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| :15          | 9          | 55   | 5     | 0     | 15        | 9    | 11    | 0     | 10         | 54   | 18    | 0     | 5         | 9    | 18    | 0     | 218   |
| :30          | 16         | 49   | 2     | 0     | 16        | 13   | 18    | 0     | 30         | 44   | 14    | 0     | 6         | 9    | 15    | 0     | 232   |
| :45          | 11         | 42   | 2     | 0     | 20        | 6    | 11    | 0     | 14         | 46   | 18    | 0     | 7         | 11   | 15    | 0     | 203   |
| :00          | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0     |
| Total        | 36         | 146  | 9     | 0     | 51        | 28   | 40    | 0     | 54         | 144  | 50    | 0     | 18        | 29   | 48    | 0     | 553   |
|              |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| * BREAK *    |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| :15          | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0     |
| :30          | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0     |
| :45          | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0          | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0     |
| :00          | 3          | 55   | 9     | 0     | 15        | 13   | 13    | 0     | 16         | 58   | 13    | 0     | 2         | 11   | 13    | 0     | 221   |
| Total        | 3          | 55   | 9     | 0     | 15        | 13   | 13    | 0     | 16         | 58   | 13    | 0     | 2         | 11   | 13    | 0     | 221   |

JAMAR Technologies, Inc.  
 Traffic Counting Equipment & Supplies  
 2031 Stout Drive, Suite 4  
 Ivyland, PA 18974

Site Code : 10200001  
 Start Date: 09/21/98  
 File I.D. : TURN}001  
 Page : 2

Vehicle group 1

| Southbound   |      |       |       |   | Westbound |      |       |       |  | Northbound |      |       |       |  | Eastbound |      |       |       |  | Total |
|--------------|------|-------|-------|---|-----------|------|-------|-------|--|------------|------|-------|-------|--|-----------|------|-------|-------|--|-------|
| Left         | Thru | Right | Other |   | Left      | Thru | Right | Other |  | Left       | Thru | Right | Other |  | Left      | Thru | Right | Other |  | Total |
| ate 09/21/98 |      |       |       |   |           |      |       |       |  |            |      |       |       |  |           |      |       |       |  |       |
| 5:15         | 18   | 45    | 0     | 0 | 14        | 10   | 13    | 0     |  | 13         | 54   | 27    | 0     |  | 3         | 11   | 19    | 0     |  | 227   |
| 5:30         | 17   | 61    | 1     | 0 | 14        | 11   | 26    | 0     |  | 12         | 64   | 24    | 0     |  | 3         | 7    | 15    | 0     |  | 255   |
| 5:45         | 10   | 90    | 2     | 0 | 11        | 10   | 19    | 0     |  | 21         | 77   | 22    | 0     |  | 3         | 8    | 10    | 0     |  | 283   |
| 6:00         | 16   | 58    | 4     | 0 | 15        | 13   | 25    | 0     |  | 14         | 72   | 24    | 0     |  | 5         | 11   | 14    | 0     |  | 271   |
| r Total      | 61   | 254   | 7     | 0 | 54        | 44   | 83    | 0     |  | 60         | 267  | 97    | 0     |  | 14        | 37   | 58    | 0     |  | 1036  |
| 6:15         | 12   | 61    | 1     | 0 | 16        | 12   | 29    | 0     |  | 24         | 84   | 25    | 0     |  | 4         | 18   | 14    | 0     |  | 300   |
| 6:30         | 16   | 67    | 2     | 0 | 11        | 14   | 18    | 0     |  | 18         | 80   | 18    | 0     |  | 3         | 12   | 15    | 0     |  | 274   |
| 6:45         | 14   | 54    | 2     | 0 | 15        | 15   | 19    | 0     |  | 21         | 76   | 23    | 0     |  | 2         | 11   | 23    | 0     |  | 275   |
| 7:00         | 20   | 55    | 5     | 0 | 14        | 18   | 27    | 0     |  | 16         | 72   | 18    | 0     |  | 7         | 17   | 15    | 0     |  | 284.  |
| r Total      | 62   | 237   | 10    | 0 | 56        | 59   | 93    | 0     |  | 79         | 312  | 84    | 0     |  | 16        | 58   | 67    | 0     |  | 1133  |
| 7:15         | 26   | 74    | 2     | 0 | 9         | 14   | 29    | 0     |  | 21         | 125  | 24    | 0     |  | 6         | 11   | 9     | 0     |  | 350   |
| 7:30         | 19   | 55    | 5     | 0 | 14        | 16   | 20    | 0     |  | 17         | 97   | 17    | 0     |  | 5         | 14   | 13    | 0     |  | 292   |
| 7:45         | 31   | 52    | 0     | 0 | 6         | 15   | 25    | 0     |  | 11         | 100  | 20    | 0     |  | 7         | 26   | 13    | 0     |  | 306   |
| t Total      | 76   | 181   | 7     | 0 | 29        | 45   | 74    | 0     |  | 49         | 322  | 61    | 0     |  | 18        | 51   | 35    | 0     |  | 948   |
| TOTAL*       | 555  | 1997  | 114   | 0 | 480       | 370  | 550   | 1     |  | 487        | 1698 | 458   | 0     |  | 134       | 381  | 467   | 1     |  | 7693  |

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS S.R. 39 E SAM ALLEN RD. EW  
 COUNTY HILLS CITY Plant City  
 DATE 9-21-78 TIME FROM 6: A.M. TO 6:45  
 OBSERVER JOHN PEREZ WEATHER Cloudy  
 REMARKS \_\_\_\_\_

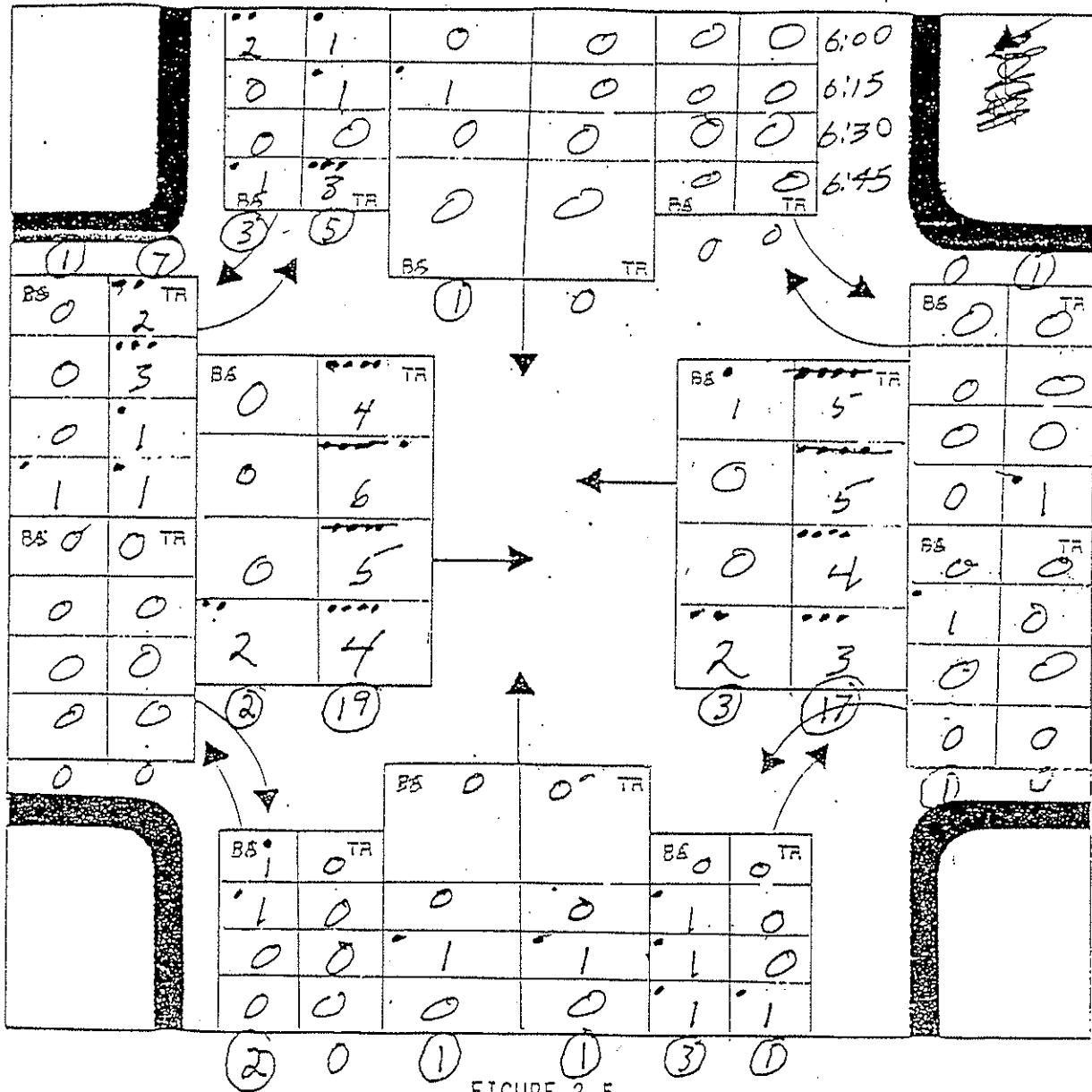


FIGURE 2-5

NOTE EACH  
SQUARE WILL  
REPRESENT 15 MIN.

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS S.R. 39 @ SAM ALLEN EW  
 COUNTY HILLS CITY PLANT CITY  
 DATE 9-21-78 TIME FROM 7:AM TO 7:45  
 OBSERVER John PEREZ WEATHER cloudy  
 REMARKS \_\_\_\_\_

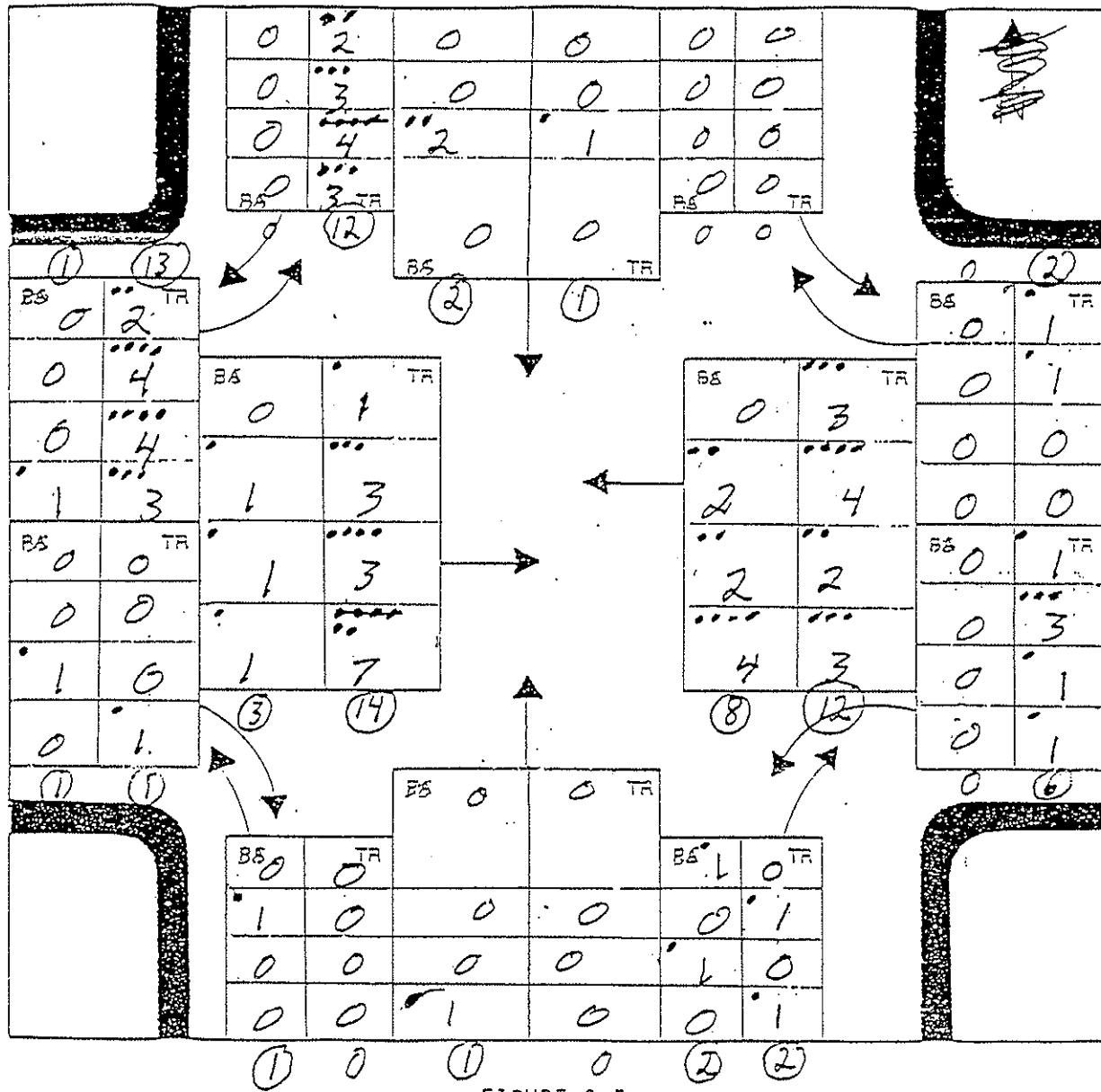


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

NOTE:

EACH SQUARE w/w REPRESENT 15 MIN.  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 & SAM ALLEN RD NW  
COUNTY HILLS CITY PLANT CITY  
DATE 9-21-98 TIME FROM 8 AM TO 8:45  
OBSERVER JOHN PEREZ WEATHER cloudy  
REMARKS

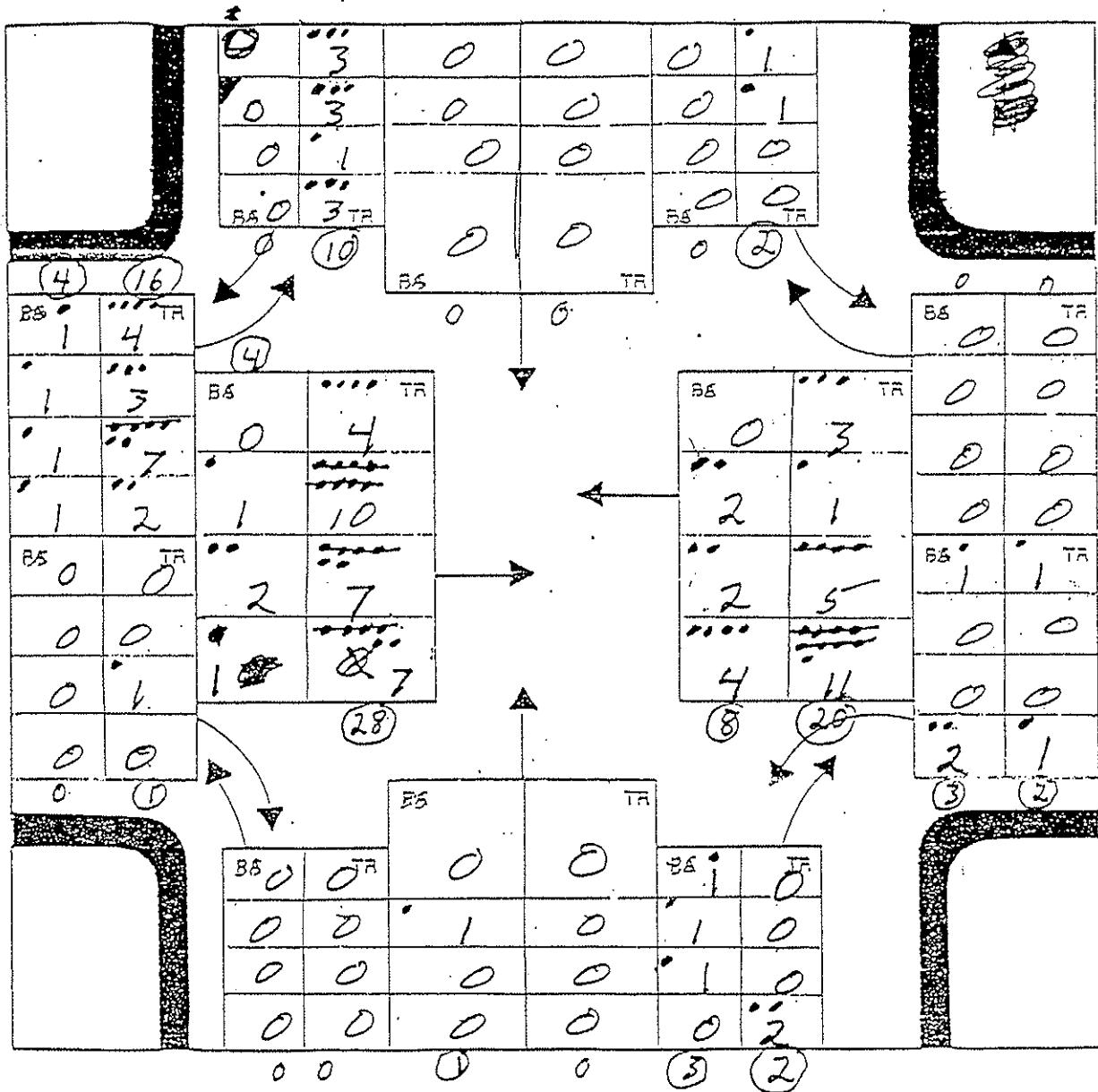


FIGURE 2-5

NOTE:  
EACH square will  
represent 15 min;

VEHICLE MOVEMENT DATA FORM  
(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 @ SAM ALLEN RD EW  
 COUNTY HILLS CITY PLANT CITY  
 DATE 9-21-98 TIME: FROM 11 A.M. TO 11:45  
 OBSERVER JOHN PEKEZ WEATHER cloudy  
 REMARKS \_\_\_\_\_

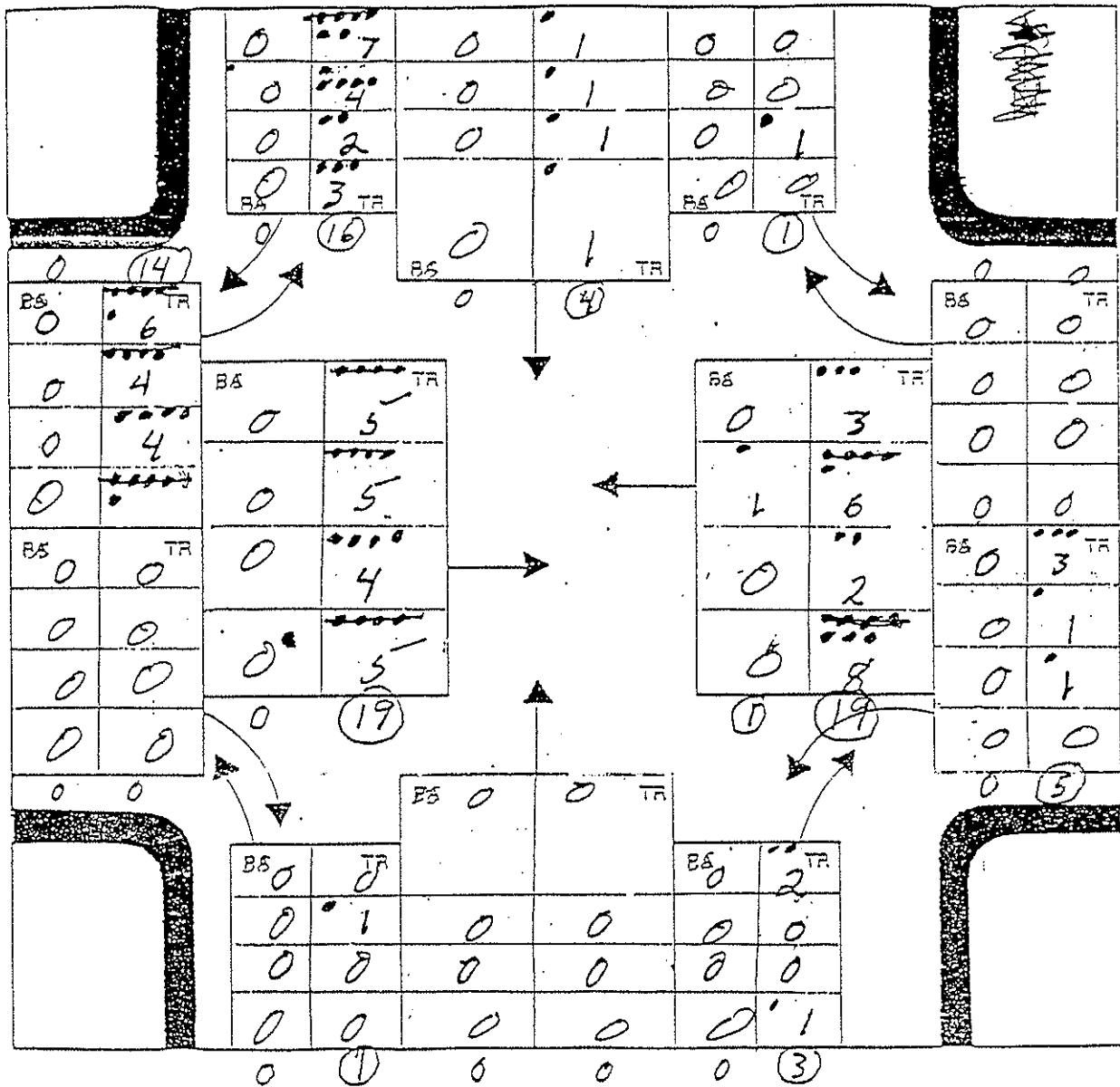


FIGURE 2-5

NOTE: EACH SQUARE WILL  
PRESENT 15 MIN.

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 39 E. SAM ALLEN RD EW  
 COUNTY Hills CITY Plant City  
 DATE 9-21-98 TIME: FROM 12 AM TO 12 45  
 OBSERVER JOHN PEREZ WEATHER Cloudy  
 REMARKS

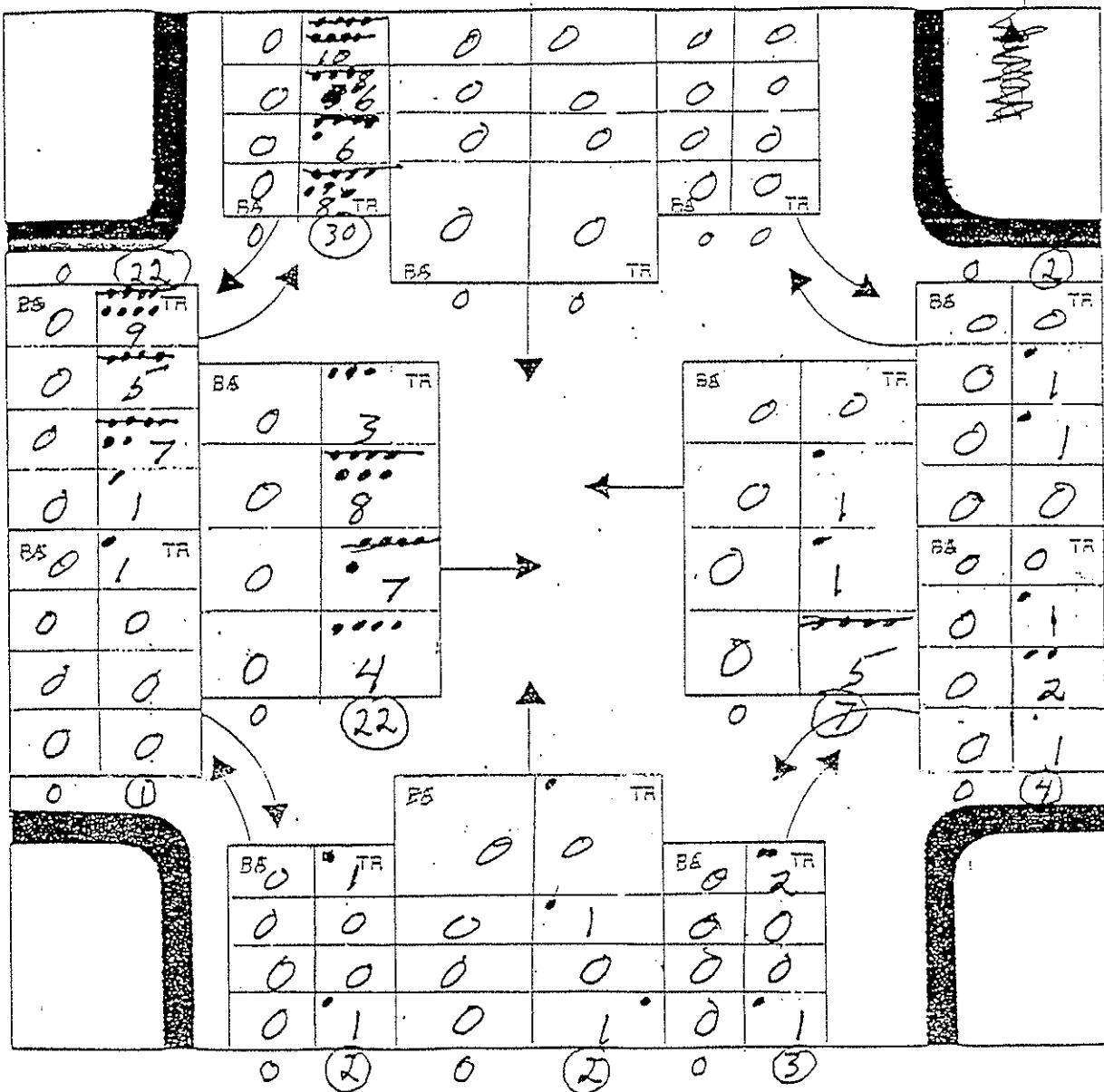


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR 398 SAM A1 EW  
COUNTY HILLS CITY PLANT CITY  
DATE 9-21-98 TIME: FROM 3: P.M., TO 3:45 PM  
OBSERVER JOHN PEREZ WEATHER cloudy  
REMARKS

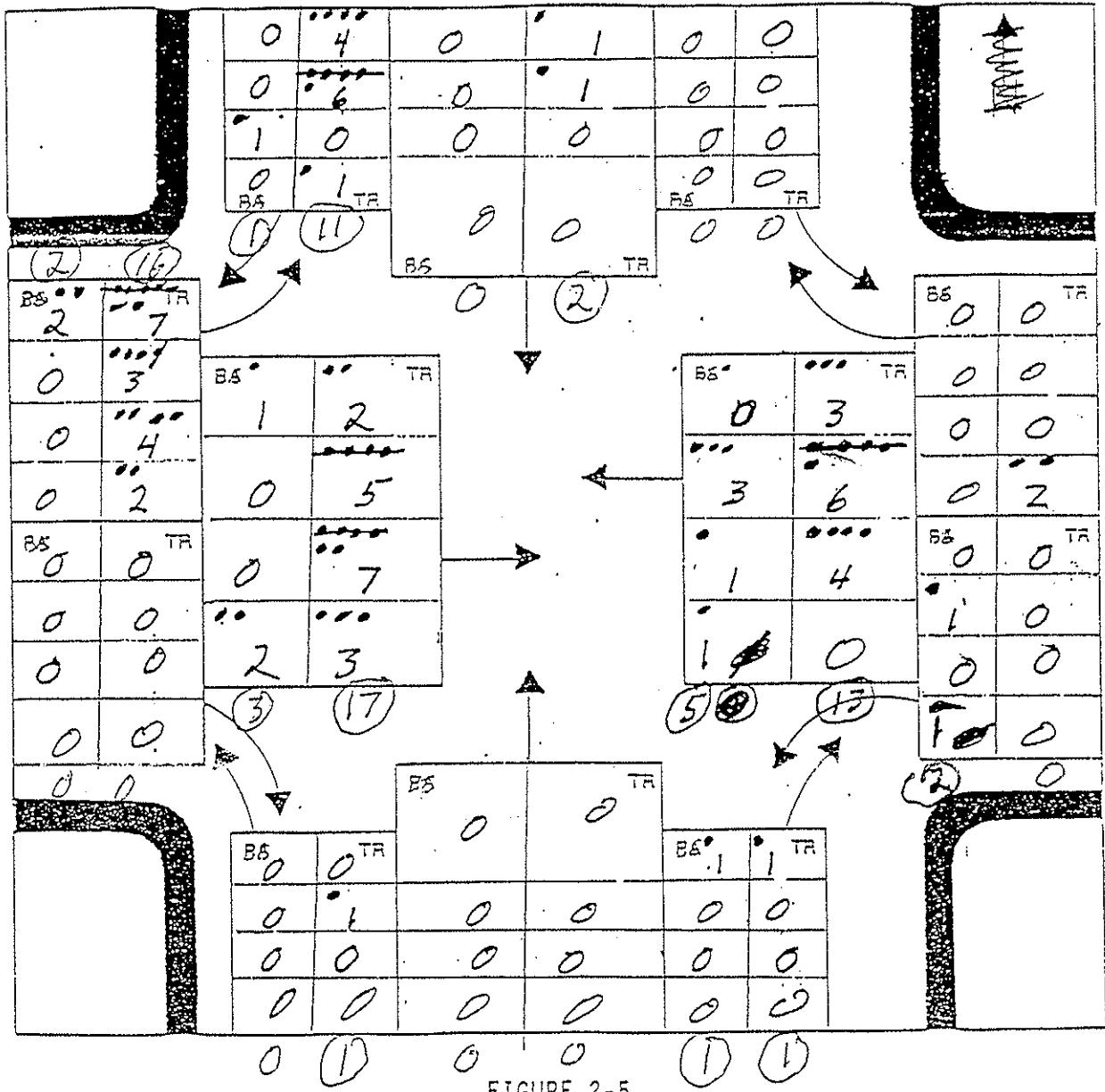


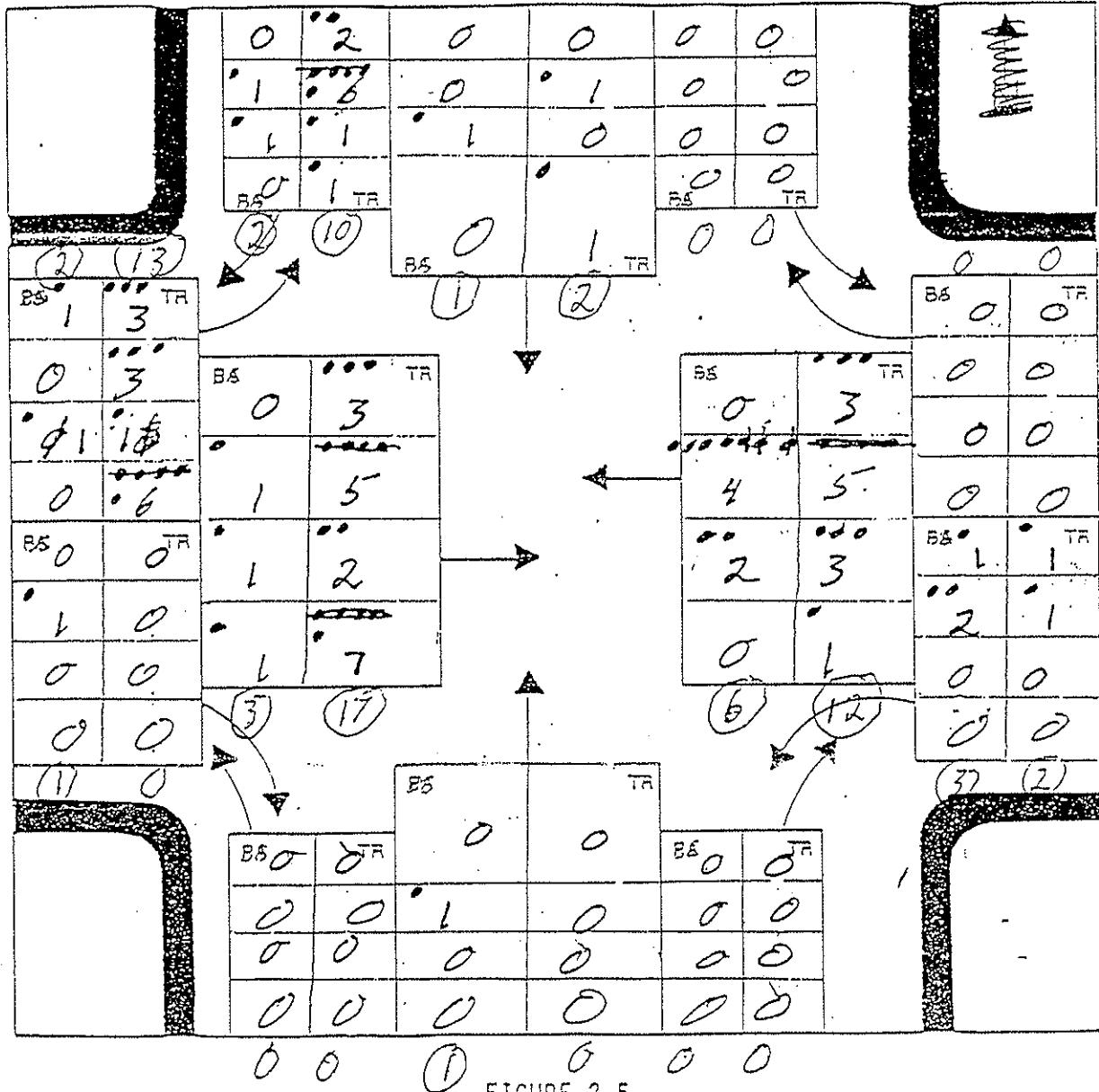
FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.O. NS SR 39 E SAME ALLEN RD EW  
COUNTY HILLS CITY PLANT CITY  
DATE 9-21-98 TIME: FROM 4: P.M. TO 4:45  
OBSERVER JOHN PEREZ WEATHER Cloudy  
REMARKS

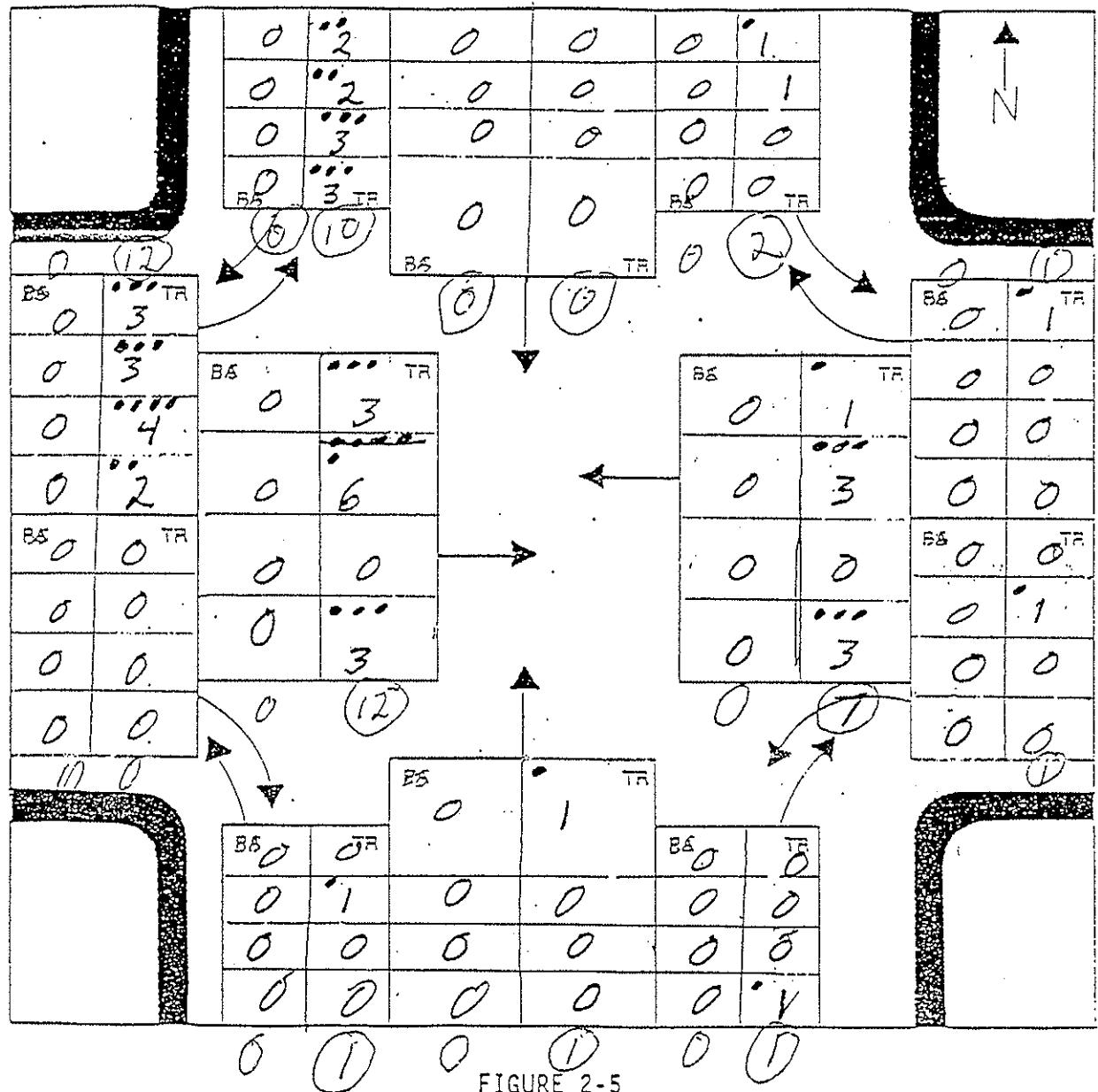


VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

**FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM**

LOCATION I.D. NS 5R. 39. P. SAM ALLEN RD EW  
COUNTY HILLS CITY Plant CITY  
DATE 9:21-98 TIME FROM 5: P.M. TO 5:45  
OBSERVER JOHN PEREZ WEATHER Cloudy  
REMARKS



VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. S.R. 39 E. SAM ALLEN RD.COUNTY Hills CITY Plant City TYPE OF CONTROL STUDY DATE 9-21-98 TIME: FROM 6:00 AM TO 12 PM OBSERVER J.P.

REMARKS \_\_\_\_\_

|        | 6-7 | 7-8 | 8-9 | 11-12 |
|--------|-----|-----|-----|-------|
| P      | 0   | 0   | 0   | 0     |
| B      | 0   | 0   | 0   | 0     |
| TOTALS |     |     |     |       |

TIME FT.  
DISTANCE FT.  
RAISED MEDIAN  YES  NO  
TOTALS

|        | 6-7 | 7-8 | 8-9 | 11-12 |
|--------|-----|-----|-----|-------|
| P      | 0   | 0   | 0   | 0     |
| B      | 0   | 0   | 0   | 0     |
| TOTALS |     |     |     |       |

|        | 6-7 | 7-8 | 8-9 | 11-12 |
|--------|-----|-----|-----|-------|
| P      | 0   | 0   | 0   | 0     |
| B      | 0   | 0   | 0   | 0     |
| TOTALS |     |     |     |       |



|        | 6-7 | 7-8 | 8-9 | 11-12 |
|--------|-----|-----|-----|-------|
| P      | 0   | 0   | 0   | 0     |
| B      | 0   | 0   | 0   | 0     |
| TOTALS |     |     |     |       |

DISTANCE FT.  
RAISED MEDIAN  YES  NO  
TOTALS

|        | 6-7 | 7-8 | 8-9 | 11-12 |
|--------|-----|-----|-----|-------|
| P      | 0   | 0   | 0   | 0     |
| B      | 0   | 0   | 0   | 0     |
| TOTALS |     |     |     |       |

|        | 6-7 | 7-8 | 8-9 | 11-12 |
|--------|-----|-----|-----|-------|
| P      | 0   | 0   | 0   | 0     |
| B      | 0   | 0   | 0   | 0     |
| TOTALS |     |     |     |       |

DISTANCE FT.  
RAISED MEDIAN  YES  NO  
TOTALS

|        | 6-7 | 7-8 | 8-9 | 11-12 |
|--------|-----|-----|-----|-------|
| P      | 0   | 0   | 0   | 0     |
| B      | 0   | 0   | 0   | 0     |
| TOTALS |     |     |     |       |



PAGE 2 OF 2

FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. S.R. 39 @ SAM. ALLEN R.D.  
 COUNTY HILLS CITY PLANT CITY TYPE OF CONTROL \_\_\_\_\_  
 STUDY DATE 9-21-91 TIME: FROM AM TO PM OBSERVER J.P.  
 REMARKS \_\_\_\_\_

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | —    | —   | —   | —   |
| B | —    | —   | —   | —   |
|   | —    | —   | —   | —   |

TIME PERIODS  
 DISTANCE FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   | 12-1 | 3-4 | 4-5 | 5-6 |
|---|------|-----|-----|-----|
| P | —    | —   | —   | —   |
| B | —    | —   | —   | —   |
|   | —    | —   | —   | —   |

|   |   |   |   |
|---|---|---|---|
| P | — | — | — |
| B | — | — | — |
|   | — | — | — |

TOTALS

|   |   |   |   |
|---|---|---|---|
| P | — | — | — |
| B | — | — | — |
|   | — | — | — |

DISTANCE \_\_\_\_ FT.

RAISED MEDIAN  YES  NO

STREET

|   |   |   |   |
|---|---|---|---|
| P | — | — | — |
| B | — | — | — |
|   | — | — | — |

TOTALS

|   |   |   |   |
|---|---|---|---|
| P | — | — | — |
| B | — | — | — |
|   | — | — | — |

|   |   |   |   |
|---|---|---|---|
| P | — | — | — |
| B | — | — | — |
|   | — | — | — |

DISTANCE \_\_\_\_ FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

|   |   |   |   |
|---|---|---|---|
| P | — | — | — |
| B | — | — | — |
|   | — | — | — |

DISTRICT 7 WORK COPY  
TRAFFIC OPERATIONS  
REQUEST FORM

| IN OR N. S. E. W. OF | MILE POST # | LOCAL STREET NAMES           | U S | S R | SECTION | LEG |
|----------------------|-------------|------------------------------|-----|-----|---------|-----|
| PLANT CITY           | 1.259       | 39 AT I-4 RAMPS<br>SOUTHSIDE | —   | 39  | 10200   | —   |
|                      |             |                              |     |     |         |     |

TYPE OF STUDY: 84R TMC 6-9, 11-1, 3-6 Ped & Bikes  
 COUNTY: Hillsborough  
 NOTE: SEPARATE TRUCKS & BUSES

| SPEED ZONE | TRAFFIC SIGNAL | FLASHING BEACON | SCHOOL SPEED ZONE | UNAUTHORIZED TRAFFIC SIGNAL | DESIGN STUDY | REQUESTED BY: <u>Gabor</u>      | DATE: 946-98 |
|------------|----------------|-----------------|-------------------|-----------------------------|--------------|---------------------------------|--------------|
|            |                |                 |                   |                             |              | PERFORMED BY: <u>John Perez</u> |              |
|            |                |                 |                   |                             |              | JOB #: _____                    |              |

\*\*STUDY\*\*

DATE:

|   |   |   |   |   |   |  |          |
|---|---|---|---|---|---|--|----------|
| X | X | X | X | X |   | FIELD SKETCH -----                                 | 10-13-78 |
| 8 | 4 |   | 8 | 8 |   | TURNING MOVEMENTS (TO 501 OR 508) -----            |          |
| X | X | X | X |   |   | SPEED CHECK (TO 503 OR 506) -----                  |          |
| X | X |   |   |   | X | TRAFFIC COUNTS (TO 510 OR 570) -----               |          |
| X | X |   |   |   |   | STOP SIGN OBSERVANCE (TO 518) -----                |          |
| X |   |   |   |   |   | STOP & DELAY (TO 507) -----                        |          |
|   |   |   |   |   |   | DRIVER OBSERVANCE OF TRAFFIC SIGNAL (TO 504) ----- |          |
| X | X | X | X | X |   | PEDESTRIAN VOLUME (TO 502 OR 509) -----            |          |
|   |   |   |   |   |   | DELAY STUDY OF SIGNALIZED INTERSECTION -----       |          |
| X | X | X | X |   |   | LEFT TURN STUDY (TO 513) -----                     |          |
|   |   |   |   |   |   | OBSERVATION STUDY (TO 519) -----                   |          |

SPECIAL INSTRUCTIONS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Weather :  
Counter :  
Counted by:

JAMAK Technologies, Inc.  
Traffic Counting Equipment & Supplies  
2031 Stout Drive, Suite 4  
Ivyland, PA 18974

Site Code : 10200000  
Start Date: 10/13/  
File I.D. : 39@I-46S  
Page : 1

Vehicle group 1

| Southbound    |      |       |       |   | Westbound |      |       |       |   | Northbound |      |       |       |   | Eastbound |      |       |       |   | Total |
|---------------|------|-------|-------|---|-----------|------|-------|-------|---|------------|------|-------|-------|---|-----------|------|-------|-------|---|-------|
| Left          | Thru | Right | Other |   | Left      | Thru | Right | Other |   | Left       | Thru | Right | Other |   | Left      | Thru | Right | Other |   |       |
| Date 10/13/98 |      |       |       |   |           |      |       |       |   |            |      |       |       |   |           |      |       |       |   |       |
| 06:00         | 7    | 32    | 9     | 1 |           | 3    | 2     | 1     | 0 |            | 6    | 23    | 10    | 0 |           | 6    | 2     | 4     | 0 | 100   |
| 06:15         | 8    | 34    | 7     | 0 |           | 5    | 2     | 6     | 0 |            | 7    | 46    | 6     | 0 |           | 14   | 9     | 4     | 0 | 148   |
| 06:30         | 17   | 45    | 13    | 0 |           | 4    | 0     | 10    | 0 |            | 6    | 63    | 10    | 0 |           | 14   | 10    | 1     | 0 | 11    |
| 06:45         | 29   | 48    | 16    | 0 |           | 2    | 1     | 7     | 0 |            | 8    | 63    | 15    | 0 |           | 16   | 13    | 0     | 0 | 2     |
| Hr Total      | 61   | 159   | 45    | 1 |           | 14   | 5     | 24    | 0 |            | 27   | 195   | 41    | 0 |           | 50   | 34    | 9     | 0 | 665   |
| 07:00         | 11   | 43    | 10    | 0 |           | 7    | 1     | 14    | 0 |            | 17   | 53    | 9     | 0 |           | 12   | 13    | 8     | 0 | 111   |
| 07:15         | 4    | 89    | 22    | 0 |           | 5    | 0     | 6     | 0 |            | 16   | 68    | 3     | 0 |           | 20   | 1     | 22    | 0 | 256   |
| 07:30         | 8    | 67    | 21    | 0 |           | 8    | 0     | 7     | 0 |            | 17   | 73    | 8     | 0 |           | 12   | 3     | 13    | 0 | 237   |
| 07:45         | 7    | 105   | 20    | 0 |           | 6    | 1     | 9     | 0 |            | 20   | 76    | 15    | 0 |           | 11   | 4     | 23    | 0 | 200   |
| Hr Total      | 30   | 304   | 73    | 0 |           | 26   | 2     | 36    | 0 |            | 70   | 270   | 35    | 0 |           | 55   | 21    | 66    | 0 | 981   |
| 08:00         | 11   | 97    | 14    | 0 |           | 9    | 5     | 10    | 0 |            | 14   | 66    | 16    | 0 |           | 11   | 6     | 35    | 0 | 299   |
| 08:15         | 1    | 64    | 10    | 0 |           | 5    | 0     | 8     | 0 |            | 13   | 47    | 8     | 0 |           | 6    | 3     | 19    | 0 | 181   |
| 08:30         | 8    | 68    | 14    | 0 |           | 2    | 1     | 7     | 0 |            | 12   | 65    | 3     | 0 |           | 15   | 3     | 20    | 0 | 218   |
| 08:45         | 8    | 66    | 15    | 0 |           | 6    | 1     | 6     | 0 |            | 5    | 67    | 10    | 0 |           | 9    | 6     | 21    | 0 | 220   |
| Hr Total      | 28   | 295   | 53    | 0 |           | 22   | 7     | 31    | 0 |            | 44   | 245   | 37    | 0 |           | 41   | 18    | 95    | 0 | 91    |
| * BREAK *     |      |       |       |   |           |      |       |       |   |            |      |       |       |   |           |      |       |       |   |       |
| 11:00         | 11   | 71    | 10    | 0 |           | 6    | 0     | 8     | 0 |            | 8    | 57    | 8     | 0 |           | 7    | 4     | 19    | 0 | 20    |
| 11:15         | 10   | 66    | 11    | 0 |           | 8    | 1     | 3     | 0 |            | 9    | 62    | 8     | 0 |           | 7    | 4     | 12    | 0 | 201   |
| 11:30         | 9    | 69    | 14    | 0 |           | 9    | 3     | 5     | 0 |            | 11   | 83    | 11    | 0 |           | 5    | 1     | 18    | 0 | 231   |
| 11:45         | 3    | 60    | 12    | 0 |           | 13   | 0     | 12    | 0 |            | 7    | 94    | 6     | 0 |           | 4    | 2     | 26    | 0 | 23    |
| Hr Total      | 33   | 266   | 47    | 0 |           | 36   | 4     | 28    | 0 |            | 35   | 296   | 33    | 0 |           | 23   | 11    | 75    | 0 | 881   |
| 12:00         | 10   | 53    | 7     | 0 |           | 14   | 1     | 7     | 0 |            | 7    | 88    | 9     | 0 |           | 10   | 5     | 13    | 0 | 221   |
| 12:15         | 10   | 67    | 12    | 0 |           | 6    | 1     | 9     | 0 |            | 6    | 86    | 7     | 0 |           | 13   | 4     | 15    | 0 | 231   |
| 12:30         | 12   | 56    | 15    | 0 |           | 22   | 1     | 19    | 0 |            | 4    | 63    | 14    | 0 |           | 8    | 9     | 13    | 0 | 236   |
| 12:45         | 15   | 66    | 10    | 0 |           | 9    | 0     | 5     | 0 |            | 8    | 76    | 18    | 0 |           | 9    | 7     | 15    | 0 | 231   |
| Hr Total      | 47   | 242   | 44    | 0 |           | 51   | 3     | 40    | 0 |            | 25   | 313   | 48    | 0 |           | 40   | 25    | 56    | 0 | 934   |
| * BREAK *     |      |       |       |   |           |      |       |       |   |            |      |       |       |   |           |      |       |       |   |       |
| 15:00         | 1    | 67    | 11    | 0 |           | 5    | 1     | 7     | 0 |            | 7    | 87    | 4     | 0 |           | 4    | 6     | 14    | 0 | 214   |
| 15:15         | 6    | 39    | 6     | 0 |           | 7    | 1     | 11    | 0 |            | 6    | 114   | 4     | 0 |           | 4    | 2     | 4     | 0 | 204   |
| 15:30         | 9    | 72    | 14    | 0 |           | 12   | 0     | 10    | 0 |            | 6    | 109   | 7     | 0 |           | 13   | 4     | 15    | 0 | 271   |
| 15:45         | 12   | 75    | 7     | 0 |           | 10   | 2     | 10    | 0 |            | 5    | 90    | 2     | 0 |           | 15   | 6     | 18    | 0 | 252   |
| Hr Total      | 28   | 253   | 38    | 0 |           | 34   | 4     | 38    | 0 |            | 24   | 400   | 17    | 0 |           | 36   | 18    | 51    | 0 | 941   |
| 16:00         | 6    | 59    | 9     | 0 |           | 5    | 1     | 8     | 0 |            | 6    | 117   | 12    | 0 |           | 14   | 2     | 21    | 0 | 260   |
| 16:15         | 5    | 63    | 9     | 0 |           | 10   | 1     | 4     | 0 |            | 12   | 96    | 13    | 0 |           | 20   | 4     | 25    | 0 | 262   |
| 16:30         | 6    | 69    | 9     | 0 |           | 10   | 0     | 10    | 0 |            | 13   | 110   | 8     | 0 |           | 14   | 3     | 33    | 0 | 285   |
| 16:45         | 5    | 75    | 17    | 0 |           | 6    | 2     | 10    | 0 |            | 16   | 96    | 20    | 0 |           | 12   | 9     | 21    | 0 | 289   |
| Hr Total      | 22   | 266   | 44    | 0 |           | 31   | 4     | 32    | 0 |            | 47   | 419   | 53    | 0 |           | 60   | 18    | 100   | 0 | 1096  |

Weather :  
Counter :  
Counted by:

UNIVERSAL TECHNOLOGIES, INC.  
Traffic Counting Equipment & Supplies  
2031 Stout Drive, Suite 4  
Ivyland, PA 18974

Site Code : 10200000  
Start Date: 10/13/98  
File I.D. : 39@I-4SS  
Page : 2

Vehicle group 1

|               | Southbound |      |       |       | Westbound |      |       |       | Northbound |      |       |       | Eastbound |      |       |       | Total |
|---------------|------------|------|-------|-------|-----------|------|-------|-------|------------|------|-------|-------|-----------|------|-------|-------|-------|
|               | Left       | Thru | Right | Other | Left      | Thru | Right | Other | Left       | Thru | Right | Other | Left      | Thru | Right | Other |       |
| Date 10/13/98 |            |      |       |       |           |      |       |       |            |      |       |       |           |      |       |       |       |
| 17:00         | 6          | 73   | 14    | 0     | 17        | 5    | 17    | 0     | 10         | 116  | 9     | 0     | 12        | 4    | 22    | 0     | 305   |
| 17:15         | 11         | 89   | 13    | 0     | 15        | 0    | 23    | 0     | 10         | 147  | 13    | 0     | 14        | 5    | 17    | 0     | 357   |
| 17:30         | 10         | 75   | 19    | 0     | 13        | 4    | 16    | 0     | 11         | 116  | 8     | 0     | 4         | 2    | 11    | 0     | 289   |
| 17:45         | 8          | 66   | 5     | 0     | 20        | 0    | 22    | 0     | 3          | 128  | 13    | 0     | 0         | 0    | 2     | 0     | 267   |
| Hr Total      | 35         | 303  | 51    | 0     | 65        | 9    | 78    | 0     | 34         | 507  | 43    | 0     | 30        | 11   | 52    | 0     | 1218  |
| *TOTAL*       | 284        | 2088 | 395   | 1     | 279       | 38   | 307   | 0     | 306        | 2645 | 307   | 0     | 335       | 156  | 504   | 0     | 7645  |

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR-39 + I-4 RAMPS (S. 1) EW  
COUNTY Hillsborough CITY Plant City  
DATE 10-17-49 TIME FROM 6 AM TO 7 AM  
OBSERVER John PEREZ WEATHER  
REMARKS

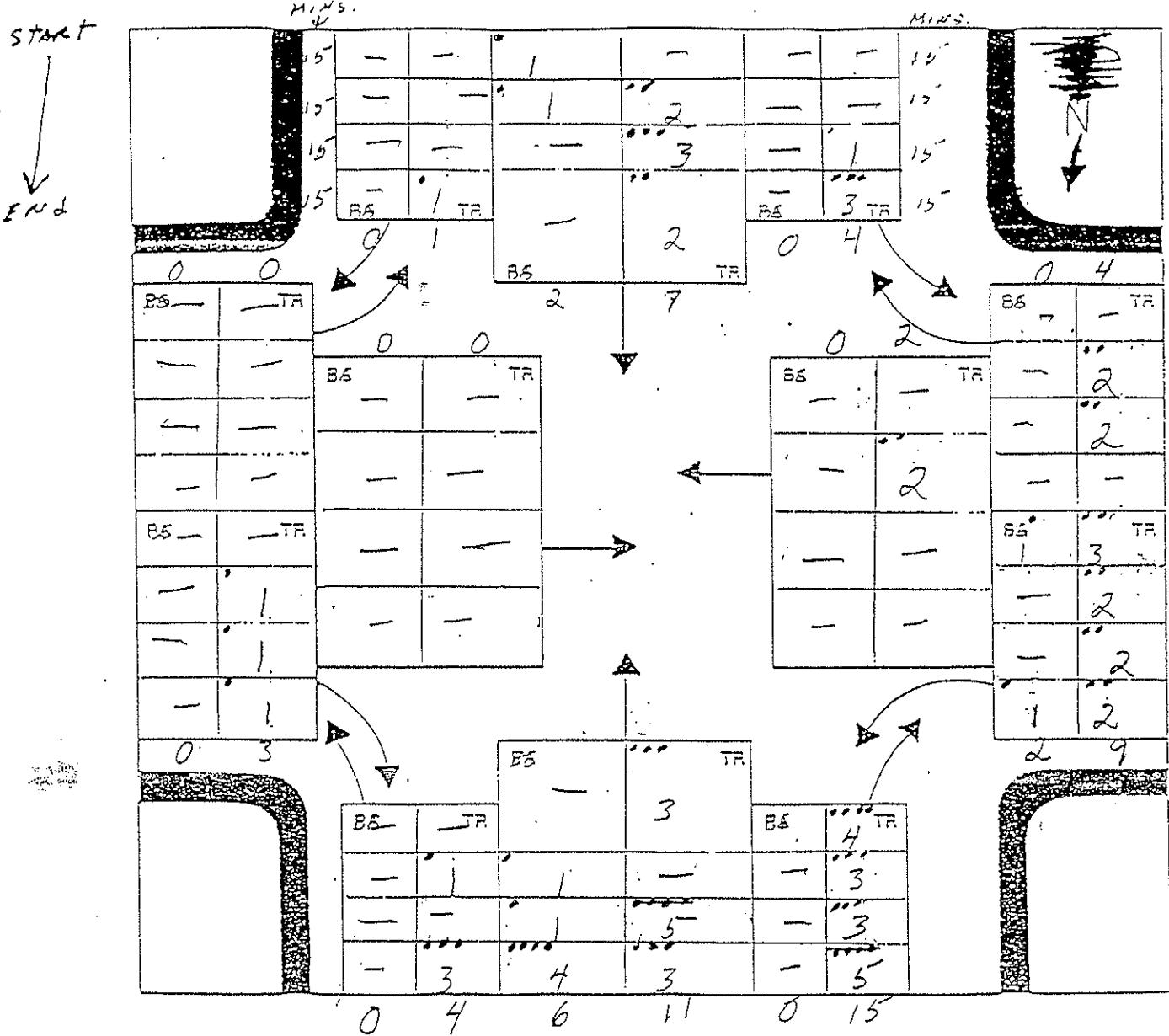


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

## VEHICLE MOVEMENTS DATA FORM

LOCATION I.O.N.S SR 39 + I-4 RAHS 15.81 EW  
 COUNTY Hillsborough CITY Plant City  
 DATE 10/13/90 TIME FROM 7:AM TO 4:PM  
 OBSERVER John Pekel WEATHER  
 REMARKS

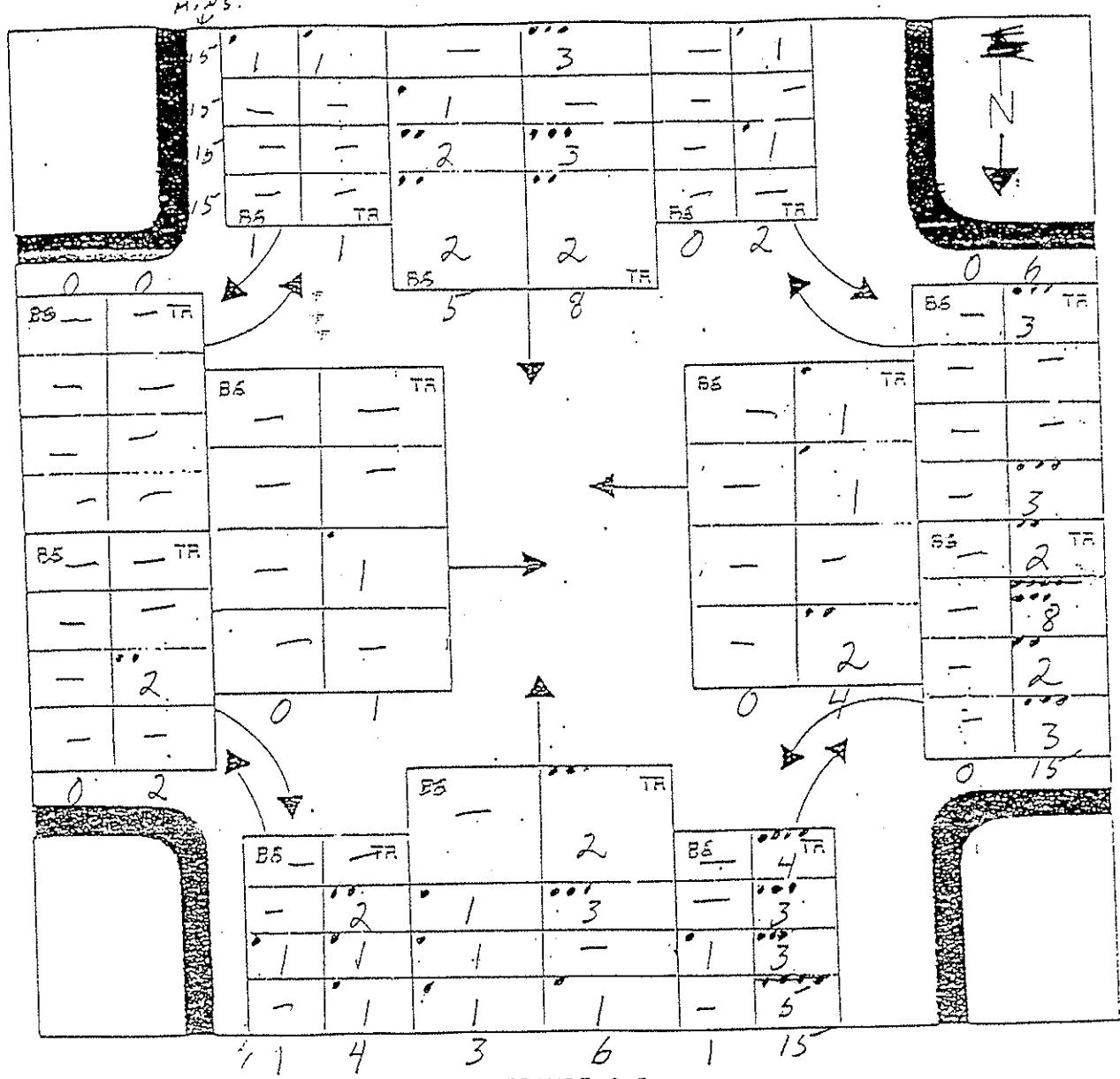


FIGURE 2-5

## VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.O. NS SR-39 ± I-4 RAMPS (S.R.) EW  
COUNTY Hillsborough CITY Plant City  
DATE 10-13-49 TIME FROM 8 AM TO 9 AM  
OBSERVER John Pfeifer WEATHER  
REMARKS

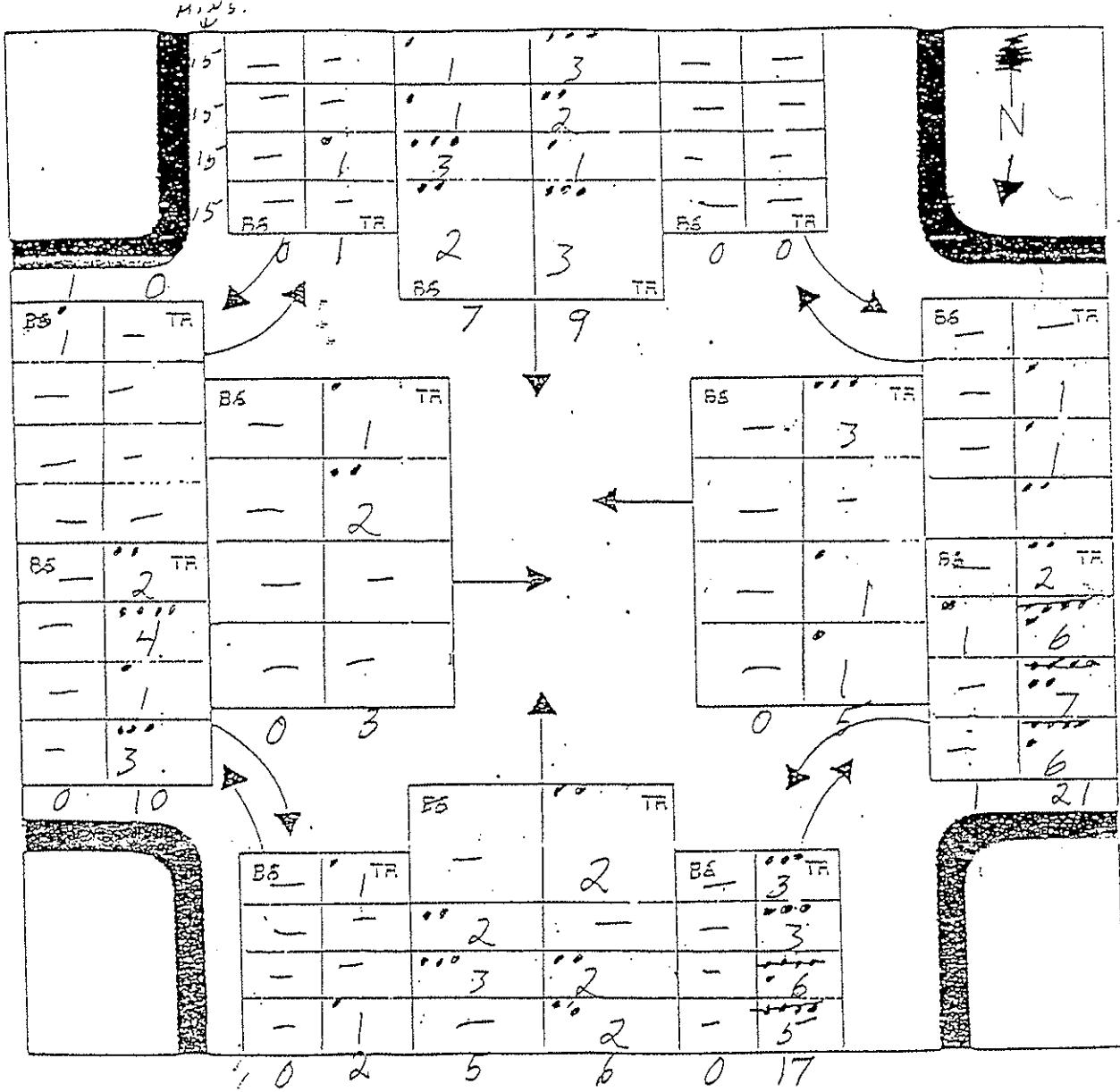


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

**VEHICLE MOVEMENTS DATA FORM**

LOCATION I.O. NS SR-39 + I-4 RAMPS (S. <sup>S</sup> B) EH  
COUNTY Hillsborough CITY Plant City  
DATE 10-13-99 TIME FROM 11 AM TO 12 NOON  
OBSERVER John P. KER  
WEATHER  
REMARKS

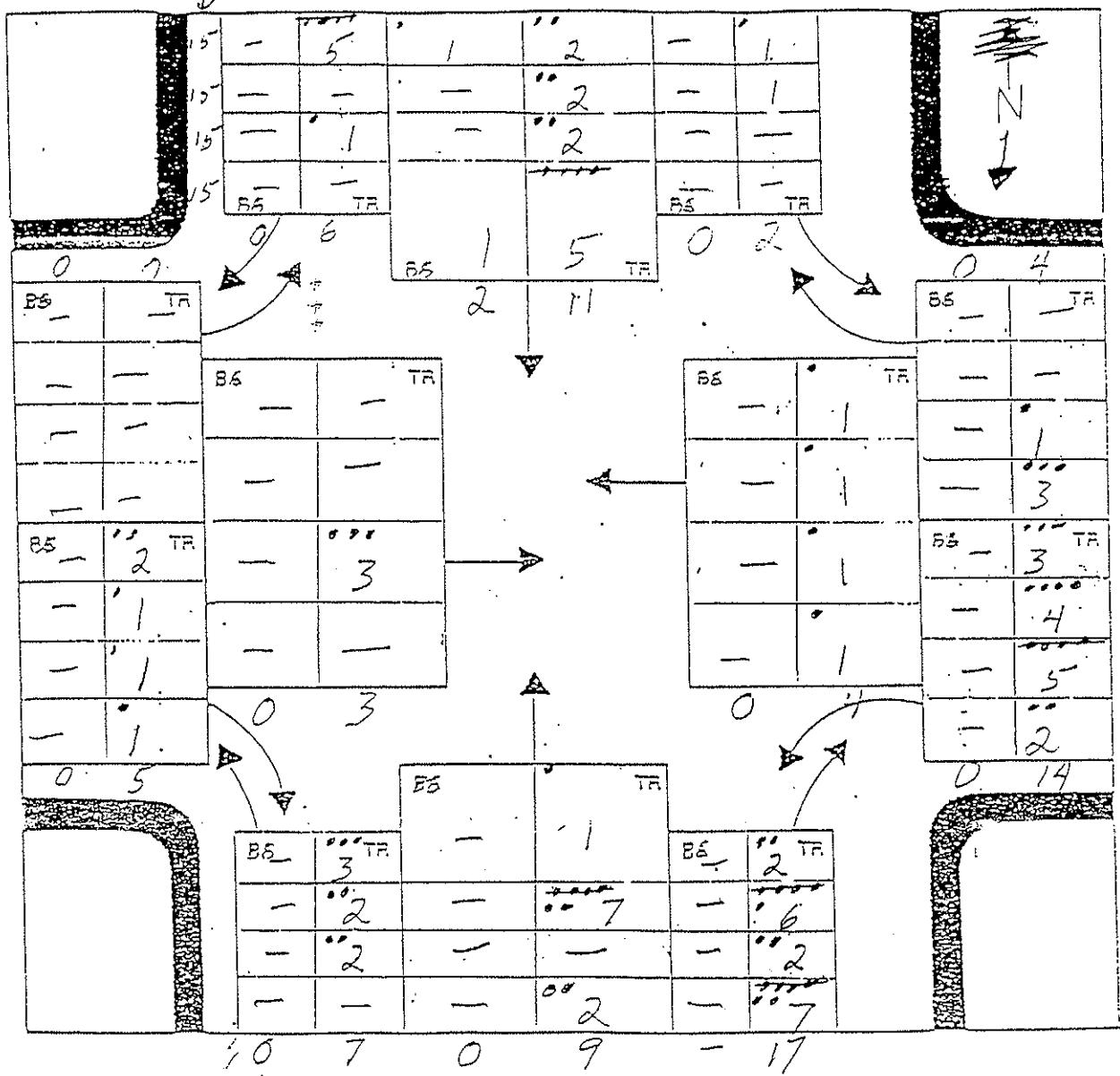


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.O. NS SR-39 + I-4 RAMPS 15, S) EW  
COUNTY Hillsborough CITY PLANT CITY  
DATE 10-13-40 TIME FROM 12:00 TO 1:00 P.M.  
OBSERVER John PEREZ WEATHER  
REMARKS

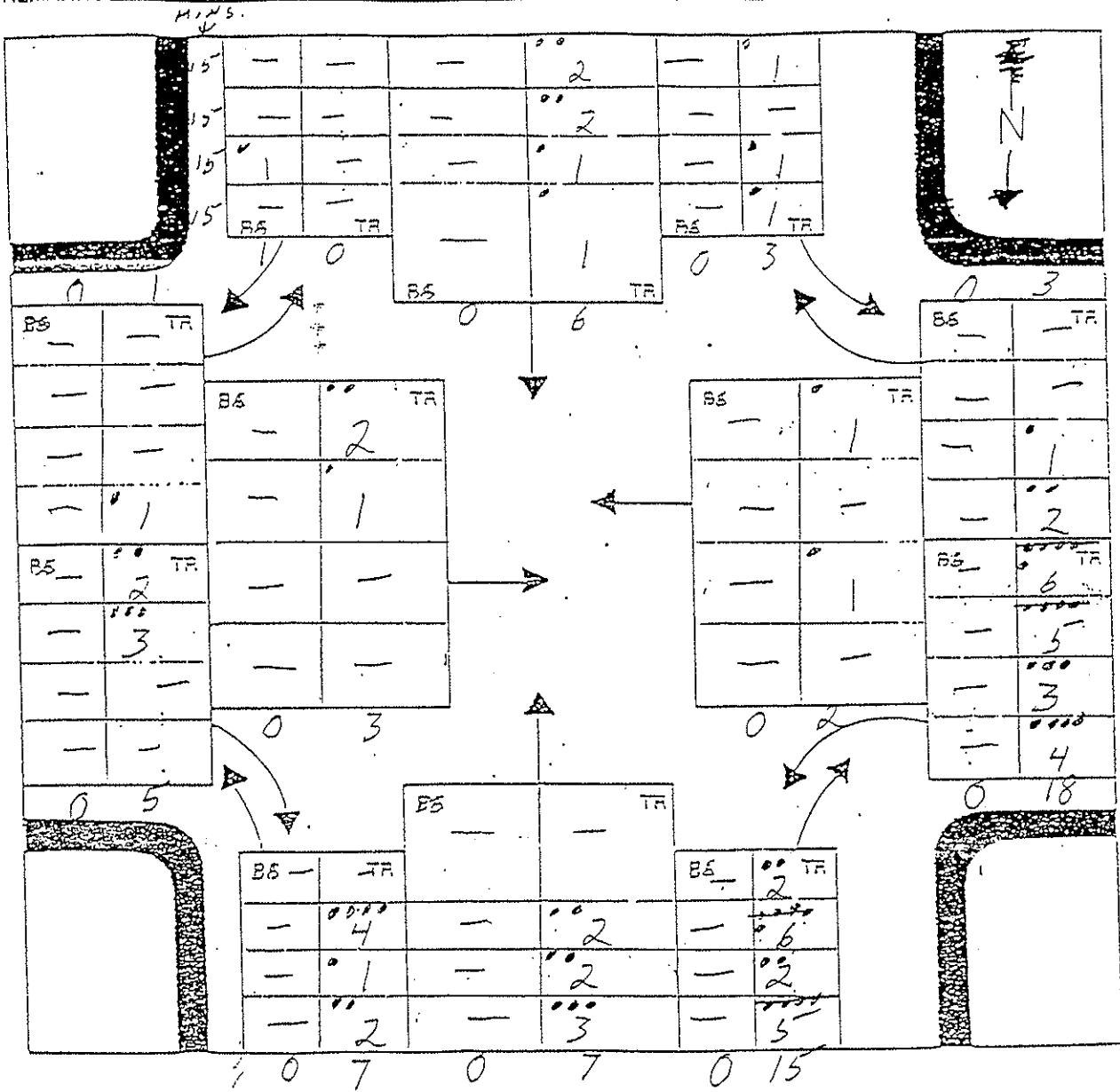


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

VEHICLE MOVEMENTS DATA FORM

LOCATION I.O.N.S SR-39 + I-4 RAMPS (S) EN  
 COUNTY HILLSBOROUGH CITY PLANT CITY  
 DATE 10-13-49 TIME: FROM 3: P.M. TO 4 P.M.  
 OBSERVER JOHN PEREZ WEATHER  
 REMARKS

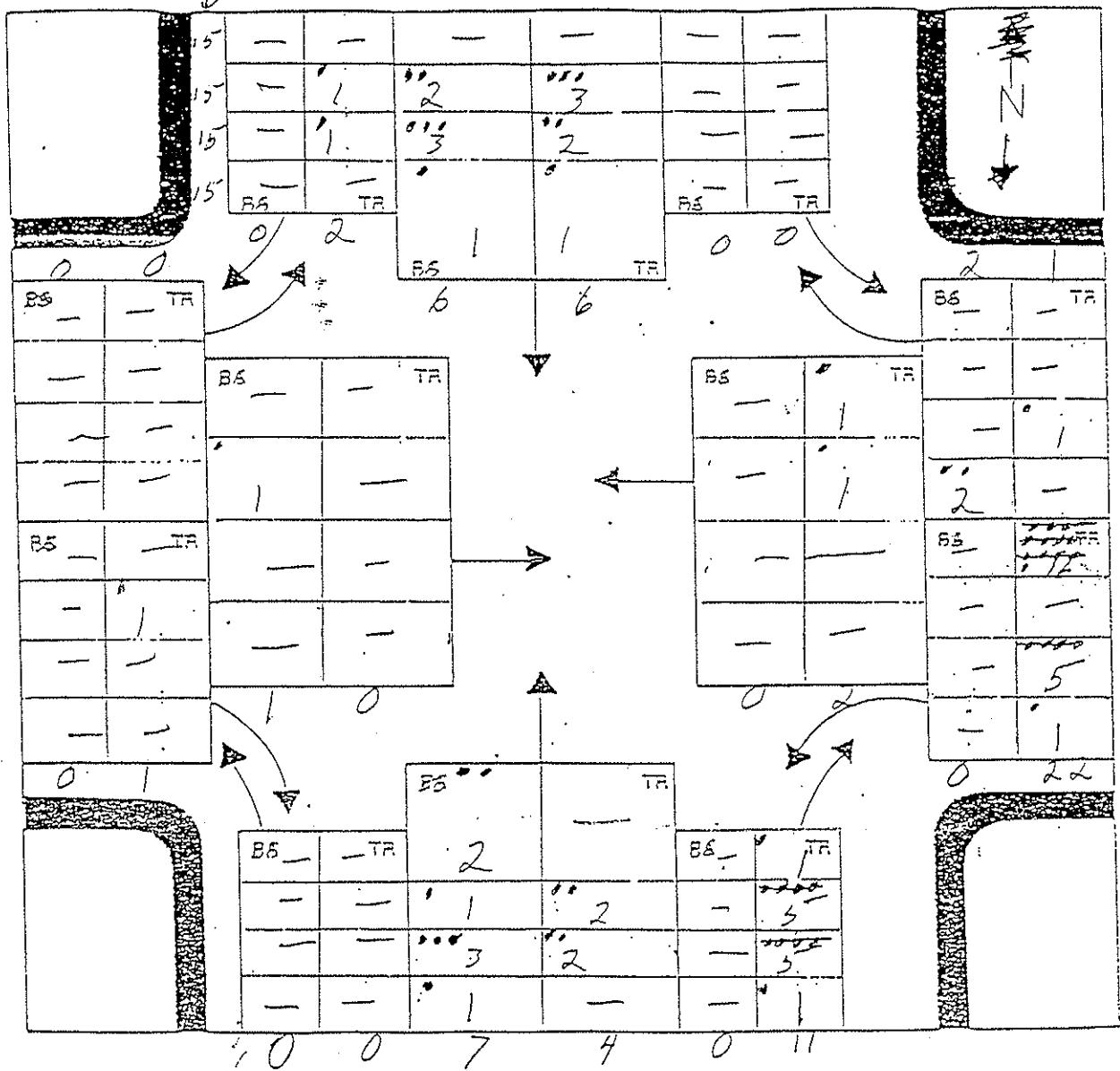


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

## VEHICLE MOVEMENTS DATA FORM

LOCATION I.O. NS SR-39 ± I-4 RAMPS (5.8)

EN

COUNTY Hillsborough

CITY Plant City

DATE 10/13/90

TIME: FROM 4 P.M.

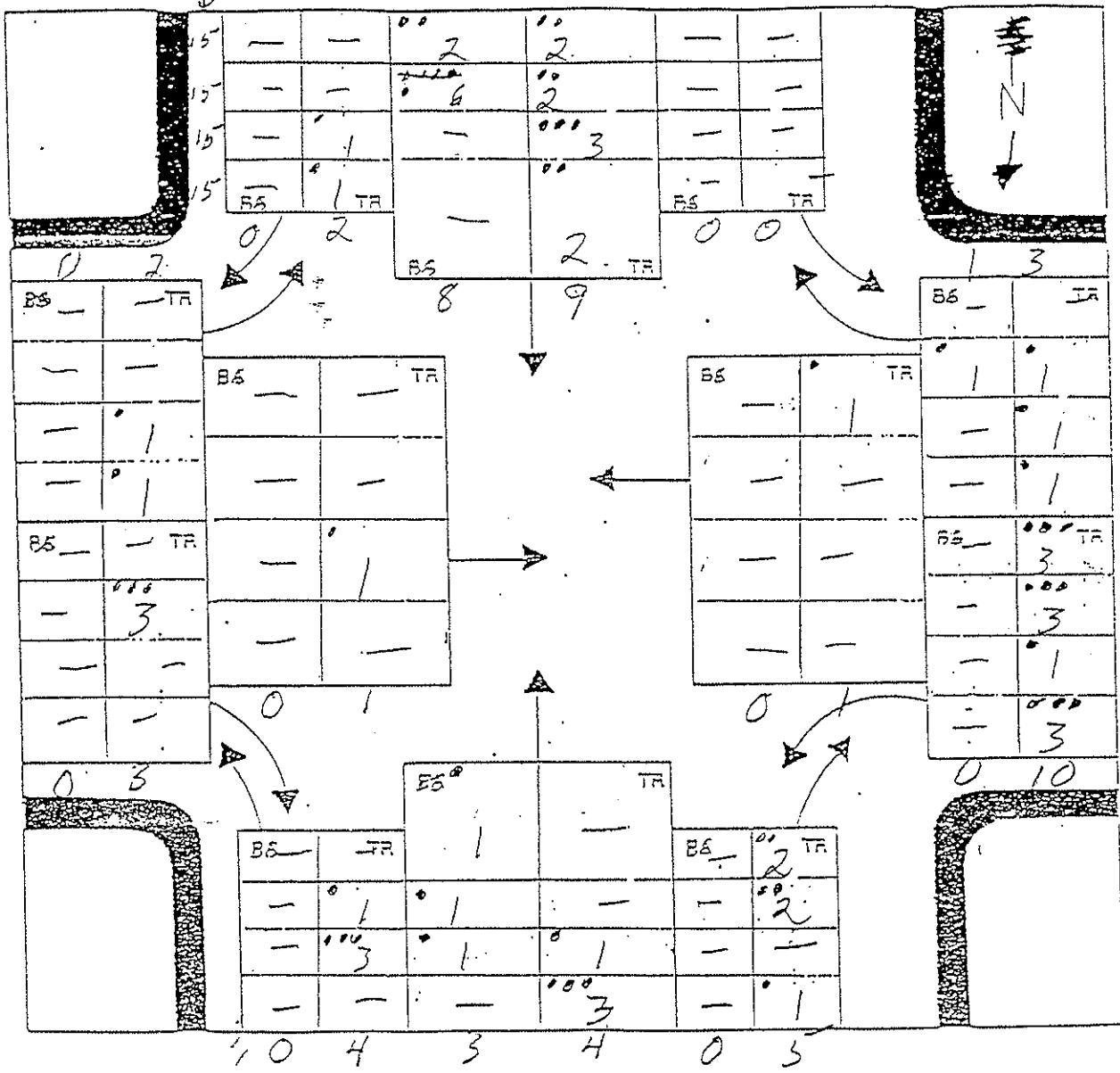
TO 5 P.M.

OBSERVER John PEREZ

WEATHER

REMARKS

HIPS.



**VEHICLE MOVEMENTS DATA FORM**

LOCATION I.D. NS SR-39 + I-4 RAMPS (S. #) <sup>5</sup> EW  
COUNTY Hillsborough CITY Plant City  
DATE 10-13-49 TIME FROM 5 P.M. TO 6 P.M.  
OBSERVER John PEREZ WEATHER  
REMARKS

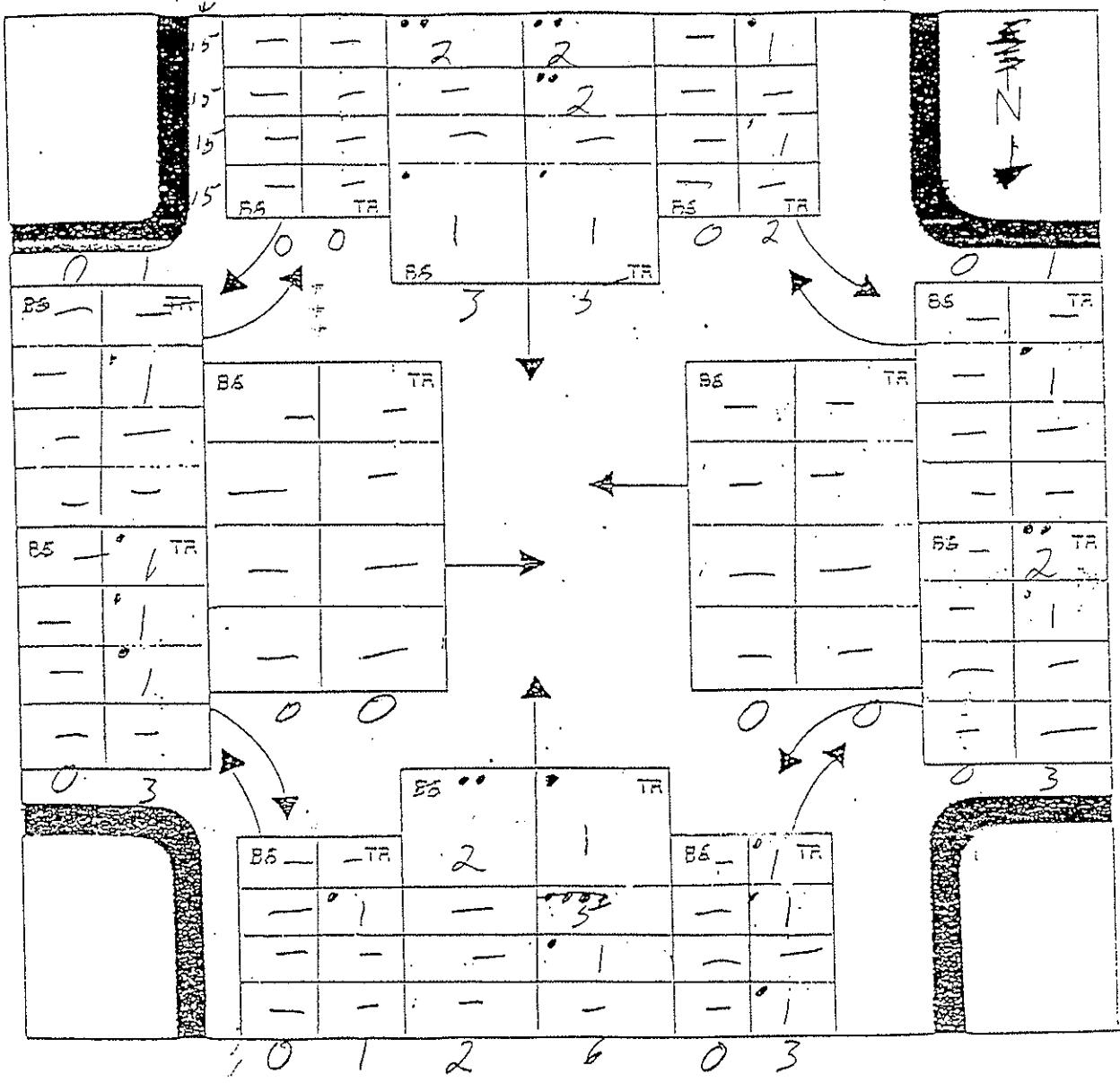


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

N  
FLORIDA DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN VOLUME FORM

LOCATION I.D. SR 39 + I-4 RAMPS S. B SIDE  
 COUNTY Hillsborough CITY Plant City TYPE OF CONTROL \_\_\_\_\_  
 STUDY DATE 10-13-98 TIME: FROM 6:00 AM TO 6:00 PM OBSERVER J.F.  
 REMARKS \_\_\_\_\_

| 6-7 | 7-8 | 8-9 |  |
|-----|-----|-----|--|
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TIME \_\_\_\_\_ FT.  
 DISTANCE \_\_\_\_\_ FT.  
 PERIODS  
 RAISED MEDIAN  YES  NO  
 TOTALS

| 6-7 | 7-8 | 8-9 |  |
|-----|-----|-----|--|
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TOTALS



DISTANCE \_\_\_\_\_ FT.  
 RAISED MEDIAN  YES  NO

| 6-7 | 7-8 | 8-9 |  |
|-----|-----|-----|--|
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DISTANCE \_\_\_\_\_ FT.  
 RAISED MEDIAN  YES  NO

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TOTALS



DISTANCE \_\_\_\_\_ FT.  
 RAISED MEDIAN  YES  NO  
 TOTALS

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FLORIDA DEPARTMENT OF TRANSPORTATION  
VEHICLE MOVEMENTS DATA FORM

LOCATION I.D. NS SR-39 + I-4 RAMPS 15.81 S EN  
 COUNTY Hillsborough CITY Plant City  
 DATE 10-13-40 TIME FROM : : TO : :  
 OBSERVER John PEREZ WEATHER  
 REMARKS

MINS.

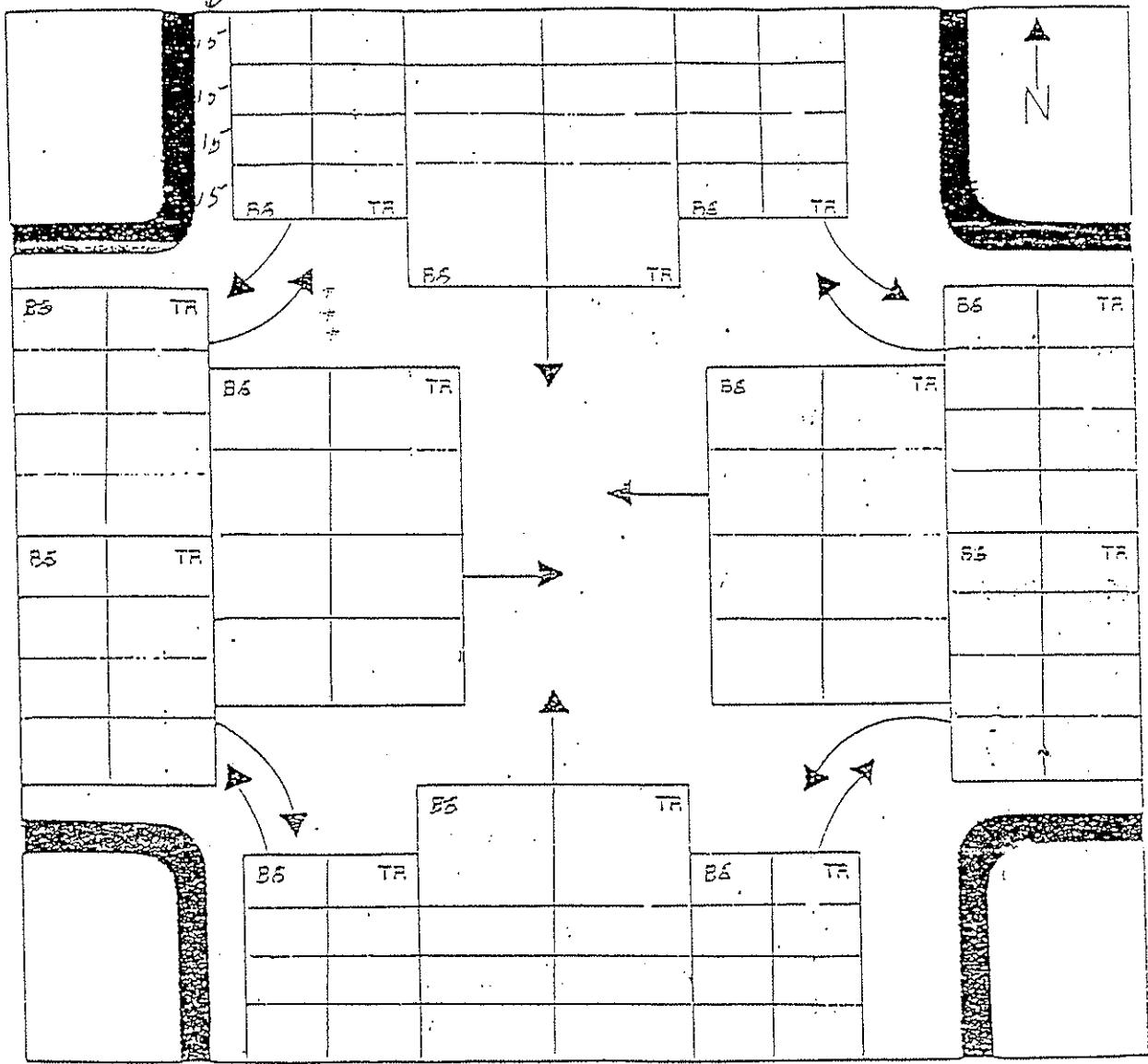


FIGURE 2-5

VEHICLE MOVEMENT DATA FORM

(Source: Florida Department of Transportation)

## APPENDIX C

### CRASH EXPERIENCE SUMMARY

**SUMMARY OF CRASH EXPERIENCE**

**SR 39/SAM ALLEN ROAD**

| Number of Crashes by Crash Type |             |           |          |            |                 |       |       | Number of Crashes Involving |          |
|---------------------------------|-------------|-----------|----------|------------|-----------------|-------|-------|-----------------------------|----------|
| YEAR                            | RIGHT ANGLE | LEFT TURN | REAR END | SIDE SWIPE | AUTO/PEDESTRIAN | OTHER | TOTAL | INJURY                      | FATALITY |
| 1993                            | 2           | 2         | 2        | 0          | 1               | 0     | 7     | 8                           | 2        |
| 1994                            | 3           | 0         | 2        | 1          | 0               | 0     | 6     | 9                           | 0        |
| 1995                            | 2           | 2         | 1        | 0          | 0               | 2     | 7     | 6                           | 0        |
| 1996                            | 0           | 0         | 3        | 2          | 0               | 0     | 5     | 6                           | 0        |
| 1997                            | 2           | 4         | 7        | 1          | 0               | 0     | 14    | 22                          | 0        |
| TOTAL                           | 9           | 8         | 15       | 4          | 1               | 2     | 39    | 51                          | 2        |

**SUMMARY OF CRASH EXPERIENCE**

**SR 39/KNIGHTS-GRIFFIN ROAD**

| Number of Crashes by Crash Type |             |           |          |            |                 |       |       | Number of Crashes Involving |          |
|---------------------------------|-------------|-----------|----------|------------|-----------------|-------|-------|-----------------------------|----------|
| YEAR                            | RIGHT ANGLE | LEFT TURN | REAR END | SIDE SWIPE | AUTO/PEDESTRIAN | OTHER | TOTAL | INJURY                      | FATALITY |
| 1993                            | 0           | 1         | 1        | 0          | 0               | 0     | 2     | 8                           | 0        |
| 1994                            | 3           | 1         | 0        | 0          | 0               | 0     | 4     | 5                           | 0        |
| 1995                            | 1           | 1         | 1        | 0          | 0               | 0     | 3     | 2                           | 0        |
| 1996                            | 3           | 2         | 0        | 0          | 0               | 0     | 5     | 20                          | 0        |
| 1997                            | 0           | 0         | 3        | 1          | 0               | 0     | 4     | 5                           | 0        |
| TOTAL                           | 7           | 5         | 5        | 1          | 0               | 0     | 18    | 40                          | 0        |

**SUMMARY OF CRASH EXPERIENCE**

**SR 39/ZEPHYRHILLS BYPASS**

| YEAR  | Number of Crashes by Crash Type |           |          |            |                   |       |       | Number of Crashes Involving |          |
|-------|---------------------------------|-----------|----------|------------|-------------------|-------|-------|-----------------------------|----------|
|       | RIGHT ANGLE                     | LEFT TURN | REAR END | SIDE SWIPE | AUTO/ PEDES-TRIAN | OTHER | TOTAL | INJURY                      | FATALITY |
| 1993  | 10                              | 1         | 1        | 0          | 0                 | 0     | 12    | 34                          | 0        |
| 1994  | 5                               | 1         | 0        | 0          | 0                 | 0     | 6     | 10                          | 1        |
| 1995  | 1                               | 0         | 1        | 0          | 0                 | 0     | 2     | 5                           | 0        |
| 1996  | 3                               | 4         | 1        | 0          | 0                 | 0     | 8     | 11                          | 0        |
| 1997  | 1                               | 2         | 0        | 0          | 1                 | 0     | 4     | 5                           | 0        |
| TOTAL | 20                              | 8         | 3        | 0          | 1                 | 0     | 32    | 65                          | 1        |

**SUMMARY OF CRASH EXPERIENCE**

**SR 39/US 301**

| YEAR  | Number of Crashes by Crash Type |           |          |            |                   |       |       | Number of Crashes Involving |          |
|-------|---------------------------------|-----------|----------|------------|-------------------|-------|-------|-----------------------------|----------|
|       | RIGHT ANGLE                     | LEFT TURN | REAR END | SIDE SWIPE | AUTO/ PEDES-TRIAN | OTHER | TOTAL | INJURY                      | FATALITY |
| 1993  | 0                               | 0         | 0        | 0          | 0                 | 0     | 0     | 0                           | 0        |
| 1994  | 0                               | 0         | 0        | 0          | 0                 | 0     | 0     | 0                           | 0        |
| 1995  | 0                               | 0         | 1        | 0          | 0                 | 0     | 1     | 2                           | 0        |
| 1996  | 0                               | 0         | 0        | 0          | 0                 | 0     | 0     | 0                           | 0        |
| 1997  | 0                               | 0         | 0        | 0          | 0                 | 0     | 0     | 0                           | 0        |
| TOTAL | 0                               | 0         | 1        | 0          | 0                 | 0     | 1     | 2                           | 0        |

**SUMMARY OF CRASH EXPERIENCE**

SR 39 (I-4 TO SAM ALLEN ROAD)

| YEAR  | Number of Crashes by Crash Type |           |          |            |                  |       |       | Number of Crashes Involving |          |
|-------|---------------------------------|-----------|----------|------------|------------------|-------|-------|-----------------------------|----------|
|       | RIGHT ANGLE                     | LEFT TURN | REAR END | SIDE SWIPE | AUTO/PEDES-TRIAN | OTHER | TOTAL | INJURY                      | FATALITY |
| 1993  | 3                               | 4         | 1        | 0          | 1                | 1     | 10    | 9                           | 0        |
| 1994  | 2                               | 3         | 2        | 0          | 0                | 0     | 7     | 19                          | 0        |
| 1995  | 0                               | 0         | 0        | 0          | 0                | 2     | 2     | 0                           | 0        |
| 1996  | 0                               | 2         | 5        | 0          | 0                | 0     | 7     | 3                           | 0        |
| 1997  | 0                               | 0         | 0        | 0          | 0                | 0     | 0     | 0                           | 0        |
| TOTAL | 5                               | 9         | 8        | 0          | 1                | 3     | 26    | 31                          | 0        |

**SUMMARY OF CRASH EXPERIENCE**

SR 39 (SAM ALLEN ROAD TO KNIGHTS-GRIFFIN ROAD)

| YEAR  | Number of Crashes by Crash Type |           |          |            |                  |       |       | Number of Crashes Involving |          |
|-------|---------------------------------|-----------|----------|------------|------------------|-------|-------|-----------------------------|----------|
|       | RIGHT ANGLE                     | LEFT TURN | REAR END | SIDE SWIPE | AUTO/PEDES-TRIAN | OTHER | TOTAL | INJURY                      | FATALITY |
| 1993  | 2                               | 0         | 1        | 0          | 0                | 2     | 5     | 15                          | 0        |
| 1994  | 3                               | 0         | 1        | 0          | 0                | 2     | 6     | 8                           | 0        |
| 1995  | 1                               | 0         | 2        | 0          | 1                | 2     | 6     | 6                           | 0        |
| 1996  | 0                               | 0         | 3        | 0          | 0                | 3     | 6     | 3                           | 0        |
| 1997  | 0                               | 0         | 0        | 0          | 0                | 0     | 0     | 0                           | 0        |
| TOTAL | 6                               | 0         | 7        | 0          | 1                | 9     | 23    | 32                          | 0        |

**SUMMARY OF CRASH EXPERIENCE**  
**SR 39 (KNIGHTS-GRIFFIN ROAD TO ZEPHYRHILLS BYPASS)**

| YEAR         | Number of Crashes by Crash Type |           |           |            |                  |           |           | Number of Crashes Involving |          |
|--------------|---------------------------------|-----------|-----------|------------|------------------|-----------|-----------|-----------------------------|----------|
|              | RIGHT ANGLE                     | LEFT TURN | REAR END  | SIDE SWIPE | AUTO/PEDES-TRIAN | OTHER     | TOTAL     | INJURY                      | FATALITY |
| 1993         | 0                               | 0         | 0         | 0          | 0                | 0         | 0         | 0                           | 0        |
| 1994         | 1                               | 1         | 3         | 0          | 0                | 4         | 9         | 11                          | 2        |
| 1995         | 2                               | 1         | 4         | 1          | 0                | 10        | 18        | 22                          | 1        |
| 1996         | 2                               | 1         | 4         | 3          | 0                | 5         | 15        | 17                          | 0        |
| 1997         | 0                               | 0         | 0         | 0          | 0                | 0         | 0         | 0                           | 0        |
| <b>TOTAL</b> | <b>5</b>                        | <b>3</b>  | <b>11</b> | <b>4</b>   | <b>0</b>         | <b>19</b> | <b>42</b> | <b>50</b>                   | <b>3</b> |

**SUMMARY OF CRASH EXPERIENCE**  
**SR 39 (ZEPHYRHILLS BYPASS TO US 301)**

| YEAR         | Number of Crashes by Crash Type |           |          |            |                  |          |          | Number of Crashes Involving |          |
|--------------|---------------------------------|-----------|----------|------------|------------------|----------|----------|-----------------------------|----------|
|              | RIGHT ANGLE                     | LEFT TURN | REAR END | SIDE SWIPE | AUTO/PEDES-TRIAN | OTHER    | TOTAL    | INJURY                      | FATALITY |
| 1993         | 0                               | 0         | 0        | 0          | 0                | 0        | 0        | 0                           | 0        |
| 1994         | 0                               | 0         | 0        | 0          | 0                | 0        | 0        | 0                           | 0        |
| 1995         | 0                               | 0         | 0        | 0          | 0                | 0        | 0        | 0                           | 0        |
| 1996         | 0                               | 0         | 0        | 0          | 0                | 0        | 0        | 0                           | 0        |
| 1997         | 0                               | 1         | 0        | 0          | 0                | 0        | 1        | 0                           | 0        |
| <b>TOTAL</b> | <b>0</b>                        | <b>1</b>  | <b>0</b> | <b>0</b>   | <b>0</b>         | <b>0</b> | <b>1</b> | <b>0</b>                    | <b>0</b> |

## APPENDIX D

- HCS WORKSHEETS - EXISTING CONDITIONS (1998) ANALYSIS
- CAPACITY TABLE FOR ROADWAY SEGMENT ANALYSIS

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 01-25-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Road (N-S) SR 39  
 Analyst: JW File Name: SR39-50.HC9  
 Area Type: Other 1-7-99 AM  
 Comment: 1998 AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | < 0  | 1         | 1    | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 20        | 75   | 95   | 80        | 75   | 85   | 65         | 180  | 40   | 110        | 375  | 15   |
| PHF or PK15 | 0.95      | 0.95 | 0.95 | 0.95      | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| Grade       | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      |      |
| % Heavy Veh | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 7    | 3    | 3          | 7    | 3    |
| Parking     | N         | N    |      | N         | N    |      | N          | N    |      | N          | N    |      |
| Bus Stops   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Con. Peds   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Ped Button  | (Y/N)     | N    |      | (Y/N)     | N    |      | (Y/N)      | N    |      | (Y/N)      | N    |      |
| Arr Type    | 3         | 3    |      | 3         | 3    |      | 3          | 3    | 3    | 3          | 3    |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |
| Prop. Share |           |      |      |           |      |      |            |      |      |            |      |      |
| Prop. Prot. |           |      |      |           |      |      |            |      |      |            |      |      |

| Signal Operations |       |      |                                   |   |           |       |       |   |  |  |
|-------------------|-------|------|-----------------------------------|---|-----------|-------|-------|---|--|--|
| Phase Combination | 1     | 2    | 3                                 | 4 | 5         | 6     | 7     | 8 |  |  |
| EB Left           | *     |      |                                   |   | NB Left   | *     | *     |   |  |  |
| Thru              | *     |      |                                   |   | Thru      | *     |       |   |  |  |
| Right             | *     |      |                                   |   | Right     | *     |       |   |  |  |
| Peds              |       |      |                                   |   | Peds      |       |       |   |  |  |
| WB Left           | *     |      |                                   |   | SB Left   | *     | *     |   |  |  |
| Thru              | *     |      |                                   |   | Thru      | *     |       |   |  |  |
| Right             | *     |      |                                   |   | Right     | *     |       |   |  |  |
| Peds              |       |      |                                   |   | Peds      |       |       |   |  |  |
| NB Right          |       |      |                                   |   | EB Right  |       |       |   |  |  |
| SB Right          |       |      |                                   |   | WB Right  |       |       |   |  |  |
| Green             | 25.0A |      |                                   |   | Green     | 10.0A | 38.0A |   |  |  |
| Yellow/AR         | 6.0   |      |                                   |   | Yellow/AR | 5.0   | 6.0   |   |  |  |
| Cycle Length:     | 90    | secs | Phase combination order: #1 #5 #6 |   |           |       |       |   |  |  |

| Intersection Performance Summary |        |         |       |       |       |      |           |       |     |
|----------------------------------|--------|---------|-------|-------|-------|------|-----------|-------|-----|
| Lane                             | Group: | Adj Sat | v/c   | g/C   | Delay | LOS  | Approach: | Delay | LOS |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  |           |       |     |
| EB                               | L      | 300     | 965   | 0.070 | 0.311 | 14.1 | B         | 15.4  | C   |
|                                  | TR     | 526     | 1690  | 0.340 | 0.311 | 15.6 | C         |       |     |
| WB                               | L      | 288     | 924   | 0.292 | 0.311 | 15.3 | C         | 15.4  | C   |
|                                  | TR     | 528     | 1698  | 0.318 | 0.311 | 15.4 | C         |       |     |
| NB                               | L      | 403     | 1752  | 0.169 | 0.622 | 5.2  | B         | 8.5   | B   |
|                                  | T      | 809     | 1776  | 0.234 | 0.456 | 9.7  | B         |       |     |
|                                  | R      | 714     | 1568  | 0.059 | 0.456 | 8.9  | B         |       |     |
| SB                               | L      | 679     | 1752  | 0.171 | 0.622 | 4.6  | A         | 10.1  | B   |
|                                  | TR     | 804     | 1765  | 0.511 | 0.456 | 11.7 | B         |       |     |

Intersection Delay = 11.6 sec/veh Intersection LOS = B  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.450

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 01-25-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39

Analyst: JW File Name: SR39-51.HC9

Area Type: Other 1-11-99 AM

Comment: 1998 AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 20        | 65   | 60   | 50        | 145  | 80   | 65         | 140  | 25   | 65         | 295  | 50   |
| PHF or PK15 | 0.95      | 0.95 | 0.95 | 0.95      | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      |      |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| Grade       | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      | 0    |
| % Heavy Veh | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 7    | 3    | 3          | 7    | 3    |
| Parking     | N         | N    |      | N         | N    |      | N          | N    |      | N          | N    |      |
| Bus Stops   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Con. Peds   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Ped Button  | (Y/N)     | N    |      | (Y/N)     | N    |      | (Y/N)      | N    |      | (Y/N)      | N    |      |
| Arr Type    |           | 3    | 3    |           | 3    |      | 3          | 3    | 3    | 3          | 3    |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |
| Prop. Share |           |      |      |           |      |      |            |      |      |            |      |      |
| Prop. Prot. |           |      |      |           |      |      |            |      |      |            |      |      |

Signal Operations

| Phase Combination | 1       | 2                              | 3 | 4 | 5         | 6     | 7 | 8 |
|-------------------|---------|--------------------------------|---|---|-----------|-------|---|---|
| EB Left           | *       |                                |   |   | NB Left   | *     |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |
| WB Left           | *       |                                |   |   | SB Left   | *     |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |
| NB Right          |         |                                |   |   | EB Right  |       |   |   |
| SB Right          |         |                                |   |   | WB Right  |       |   |   |
| Green             | 26.0A   |                                |   |   | Green     | 52.0A |   |   |
| Yellow/AR         | 6.0     |                                |   |   | Yellow/AR | 6.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 |   |   |           |       |   |   |

Intersection Performance Summary

| Lane | Group: | Adj Mvmts | Sat Cap | v/c Flow | g/C Ratio | Ratio | Delay | LOS  | Approach: | Delay | LOS |
|------|--------|-----------|---------|----------|-----------|-------|-------|------|-----------|-------|-----|
| EB   | LT     | 499       | 1549    | 0.178    | 0.322     | 14.2  | B     | 14.1 | B         |       |     |
|      | R      | 505       | 1568    | 0.125    | 0.322     | 13.9  | B     |      |           |       |     |
| WB   | LTR    | 480       | 1489    | 0.604    | 0.322     | 18.1  | C     | 18.1 | C         |       |     |
| NB   | L      | 413       | 676     | 0.165    | 0.611     | 4.9   | A     | 4.8  | A         |       |     |
|      | T      | 1085      | 1776    | 0.135    | 0.611     | 4.8   | A     |      |           |       |     |
|      | R      | 958       | 1568    | 0.027    | 0.611     | 4.5   | A     |      |           |       |     |
| SB   | L      | 736       | 1205    | 0.092    | 0.611     | 4.7   | A     | 5.5  | B         |       |     |
|      | TR     | 1071      | 1753    | 0.340    | 0.611     | 5.6   | B     |      |           |       |     |

Intersection Delay = 9.8 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.431

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 01-25-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Zepherhills Bypass (N-S) SR 39  
 Analyst: JW File Name: SR 39-52.HC9  
 Area Type: Other 1-11-99 AM  
 Comment: 1998 AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 1    | < 0  | 1          | 1    | 1    |
| Volumes     | 115       | 115  | 15   | 5         | 50   | 110  | 15         | 215  | 5    | 120        | 130  | 40   |
| PHF or PK15 | 0.95      | 0.95 | 0.95 | 0.95      | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| Grade       | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      |      |
| % Heavy Veh | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 7    | 3    | 3          | 7    | 3    |
| Parking     | N         | N    |      | N         | N    |      | N          | N    |      | N          | N    |      |
| Bus Stops   |           | 0    |      |           | 0    |      |            |      | 0    |            |      | 0    |
| Con. Peds   |           | 0    |      |           | 0    |      |            |      | 0    |            |      | 0    |
| Ped Button  | (Y/N)     | N    |      | (Y/N)     | N    |      | (Y/N)      | N    |      | (Y/N)      | N    |      |
| Arr Type    | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 3    |      | 3          | 3    | 3    |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |
| Prop. Share |           |      |      |           |      |      |            |      |      |            |      |      |
| Prop. Prot. |           |      |      |           |      |      |            |      |      |            |      |      |

Signal Operations

| Phase Combination | 1       | 2                              | 3 | 4 |           | 5     | 6 | 7 | 8 |
|-------------------|---------|--------------------------------|---|---|-----------|-------|---|---|---|
| EB Left           | *       |                                |   |   | NB Left   | *     |   |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |   |
| WB Left           | *       |                                |   |   | SB Left   | *     |   |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |   |
| NB Right          |         |                                |   |   | EB Right  |       |   |   |   |
| SB Right          |         |                                |   |   | WB Right  |       |   |   |   |
| Green             | 35.0A   |                                |   |   | Green     | 43.0A |   |   |   |
| Yellow/AR         | 6.0     |                                |   |   | Yellow/AR | 6.0   |   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 |   |   |           |       |   |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       | Approach: |       |      |
|-------|--------|---------|-------|-------|-------|-----------|-------|------|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS       | Delay | LOS  |
| EB    | L      | 637     | 1509  | 0.190 | 0.422 | 10.6      | B     | 10.4 |
|       | T      | 779     | 1845  | 0.155 | 0.422 | 10.4      | B     |      |
|       | R      | 662     | 1568  | 0.024 | 0.422 | 9.8       | B     |      |
| WB    | L      | 529     | 1253  | 0.009 | 0.422 | 9.7       | B     | 10.3 |
|       | T      | 779     | 1845  | 0.068 | 0.422 | 10.0      | B     |      |
|       | R      | 662     | 1568  | 0.175 | 0.422 | 10.5      | B     |      |
| NB    | L      | 622     | 1217  | 0.026 | 0.511 | 7.0       | B     | 8.0  |
|       | TR     | 905     | 1770  | 0.255 | 0.511 | 8.0       | B     |      |
| SB    | L      | 474     | 927   | 0.266 | 0.511 | 8.1       | B     | 7.7  |
|       | T      | 908     | 1776  | 0.151 | 0.511 | 7.5       | B     |      |
|       | R      | 801     | 1568  | 0.052 | 0.511 | 7.1       | B     |      |

Intersection Delay = 9.0 sec/veh Intersection LOS = B  
 Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.232

Center For Microcomputers In Transportation

University of Florida

512 Weil Hall

Gainesville, FL 32611-2083

Ph: (904) 392-0378

Streets: (N-S) SR 39

(E-W) US 301

Major Street Direction.... EW

Length of Time Analyzed... 60 (min)

Analyst.....

Date of Analysis..... 1/11/99

Other Information..... 1998 AM Peak Hour

Two-way Stop-controlled Intersection

|             | Eastbound |     |     | Westbound |     |   | Northbound |   |   | Southbound |   |   |
|-------------|-----------|-----|-----|-----------|-----|---|------------|---|---|------------|---|---|
|             | L         | T   | R   | L         | T   | R | L          | T | R | L          | T | R |
| No. Lanes   | 0         | 1   | < 0 | 1         | 1   | 0 | 0          | 0 | 1 | 0          | 0 | 0 |
| Stop/Yield  |           |     | N   |           |     | N |            |   |   |            |   |   |
| Volumes     | 225       | 5   |     | 185       | 425 |   |            |   |   | 180        |   |   |
| PHF         | .95       | .95 |     | .95       | .95 |   |            |   |   | .95        |   |   |
| Grade       | 0         |     |     | 0         |     |   | 0          |   |   |            |   |   |
| MC's (%)    |           |     |     | 0         |     |   |            |   |   | 0          |   |   |
| SU/RV's (%) |           |     |     | 0         |     |   |            |   |   | 0          |   |   |
| CV's (%)    |           |     |     | 7         |     |   |            |   |   | 7          |   |   |
| PCE's       |           |     |     | 1.07      |     |   |            |   |   | 1.07       |   |   |

## Adjustment Factors

| Vehicle<br>Maneuver        | Critical<br>Gap (tg) | Follow-up<br>Time (tf) |
|----------------------------|----------------------|------------------------|
| Left Turn Major Road       | 5.00                 | 2.10                   |
| Right Turn Minor Road      | 5.50                 | 2.60                   |
| Through Traffic Minor Road | 6.00                 | 3.30                   |
| Left Turn Minor Road       | 6.50                 | 3.40                   |

## Worksheet for TWSC Intersection

| Step 1: RT from Minor Street |  | NB   | SB |
|------------------------------|--|------|----|
| Conflicting Flows: (vph)     |  | 240  |    |
| Potential Capacity: (pcph)   |  | 1046 |    |
| Movement Capacity: (pcph)    |  | 1046 |    |
| Prob. of Queue-Free State:   |  | 0.81 |    |

| Step 2: LT from Major Street |  | WB   | EB |
|------------------------------|--|------|----|
| Conflicting Flows: (vph)     |  | 242  |    |
| Potential Capacity: (pcph)   |  | 1315 |    |
| Movement Capacity: (pcph)    |  | 1315 |    |
| Prob. of Queue-Free State:   |  | 0.84 |    |

## Intersection Performance Summary

| Movement | Flow Rate<br>(pcph) | Move Cap<br>(pcph) | Shared Cap<br>(pcph) | Avg.                     | 95%                   | Approach Delay<br>(sec/veh) |
|----------|---------------------|--------------------|----------------------|--------------------------|-----------------------|-----------------------------|
|          |                     |                    |                      | Total Delay<br>(sec/veh) | Queue Length<br>(veh) |                             |
| NB R     | 202                 | 1046               |                      | 4.3                      | 0.8                   | A 4.3                       |
| WB L     | 209                 | 1315               |                      | 3.3                      | 0.6                   | A 1.0                       |

Intersection Delay = 1.3 sec/veh

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 01-25-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Road (N-S) SR 39  
 Analyst: JW File Name: SR39-54.HC9  
 Area Type: Other 1-7-99 PM  
 Comment: 1998 PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | < 0  | 1         | 1    | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 15        | 60   | 70   | 60        | 60   | 100  | 85         | 330  | 90   | 65         | 250  | 10   |
| PHF or PK15 | 0.95      | 0.95 | 0.95 | 0.95      | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| Grade       | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      |      |
| % Heavy Veh | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 7    | 3    | 3          | 7    | 3    |
| Parking     | N         | N    |      | N         | N    |      | N          | N    |      | N          | N    |      |
| Bus Stops   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Con. Peds   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Ped Button  | (Y/N)     | N    |      | (Y/N)     | N    |      | (Y/N)      | N    |      | (Y/N)      | N    |      |
| Arr Type    | 3         | 3    |      | 3         | 3    |      | 3          | 3    | 3    | 3          | 3    |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |
| Prop. Share |           |      |      |           |      |      |            |      |      |            |      |      |
| Prop. Prot. |           |      |      |           |      |      |            |      |      |            |      |      |

| Signal Operations |       |      |                                   |   |    |           |       |       |   |   |  |  |
|-------------------|-------|------|-----------------------------------|---|----|-----------|-------|-------|---|---|--|--|
| Phase Combination | 1     | 2    | 3                                 | 4 | NB | Left      | 5     | 6     | 7 | 8 |  |  |
| EB Left           | *     |      |                                   |   |    |           | *     | *     |   |   |  |  |
| Thru              | *     |      |                                   |   |    |           | Thru  | *     |   |   |  |  |
| Right             | *     |      |                                   |   |    |           | Right | *     |   |   |  |  |
| Peds              |       |      |                                   |   |    |           | Peds  |       |   |   |  |  |
| WB Left           | *     |      |                                   |   | SB | Left      | *     | *     |   |   |  |  |
| Thru              | *     |      |                                   |   |    | Thru      | *     |       |   |   |  |  |
| Right             | *     |      |                                   |   |    | Right     | *     |       |   |   |  |  |
| Peds              |       |      |                                   |   |    | Peds      |       |       |   |   |  |  |
| NB Right          |       |      |                                   |   |    | EB Right  |       |       |   |   |  |  |
| SB Right          |       |      |                                   |   |    | WB Right  |       |       |   |   |  |  |
| Green             | 25.0A |      |                                   |   |    | Green     | 10.0A | 38.0A |   |   |  |  |
| Yellow/AR         | 6.0   |      |                                   |   |    | Yellow/AR | 5.0   | 6.0   |   |   |  |  |
| Cycle Length:     | 90    | secs | Phase combination order: #1 #5 #6 |   |    |           |       |       |   |   |  |  |

| Intersection Performance Summary |        |         |       |       |           |       |     |       |     |  |  |  |
|----------------------------------|--------|---------|-------|-------|-----------|-------|-----|-------|-----|--|--|--|
| Lane                             | Group: | Adj Sat | v/c   | g/C   | Approach: | Delay | LOS | Delay | LOS |  |  |  |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio |           |       |     |       |     |  |  |  |
| EB                               | L      | 300     | 965   | 0.053 | 0.311     | 14.0  | B   | 15.0  | B   |  |  |  |
|                                  | TR     | 527     | 1695  | 0.260 | 0.311     | 15.1  | C   |       |     |  |  |  |
| WB                               | L      | 339     | 1091  | 0.186 | 0.311     | 14.7  | B   | 15.3  | C   |  |  |  |
|                                  | TR     | 520     | 1672  | 0.323 | 0.311     | 15.5  | C   |       |     |  |  |  |
| NB                               | L      | 540     | 1752  | 0.165 | 0.622     | 4.7   | A   | 9.6   | B   |  |  |  |
|                                  | T      | 809     | 1776  | 0.429 | 0.456     | 10.9  | B   |       |     |  |  |  |
|                                  | R      | 714     | 1568  | 0.133 | 0.456     | 9.2   | B   |       |     |  |  |  |
| SB                               | L      | 462     | 1752  | 0.147 | 0.622     | 4.9   | A   | 9.2   | B   |  |  |  |
|                                  | TR     | 804     | 1765  | 0.341 | 0.456     | 10.3  | B   |       |     |  |  |  |

Intersection Delay = 11.2 sec/veh Intersection LOS = B  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.385

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 01-25-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39  
 Analyst: JW File Name: SR39-55.HC9  
 Area Type: Other 1-11-99 PM  
 Comment: 1998 PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 35        | 140  | 55   | 40        | 105  | 100  | 60         | 300  | 65   | 75         | 175  | 20   |
| PHF or PK15 | 0.95      | 0.95 | 0.95 | 0.95      | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      |      |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| Grade       | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      |      |
| % Heavy Veh | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 7    | 3    | 3          | 7    | 3    |
| Parking     | N         | N    |      | N         | N    |      | N          | N    |      | N          | N    |      |
| Bus Stops   | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      |      |
| Con. Peds   | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      |      |
| Ped Button  | (Y/N)     | N    |      | (Y/N)     | N    |      | (Y/N)      | N    |      | (Y/N)      | N    |      |
| Arr Type    |           | 3    | 3    |           | 3    |      | 3          | 3    | 3    | 3          | 3    |      |
| RTOR Vols   |           | 0    |      |           | 0    |      | 0          |      |      | 0          |      |      |
| Lost Time.  | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |
| Prop. Share |           |      |      |           |      |      |            |      |      |            |      |      |
| Prop. Prot. |           |      |      |           |      |      |            |      |      |            |      |      |

Signal Operations

| Phase Combination | 1       | 2                              | 3 | 4 | 5         | 6     | 7 | 8 |
|-------------------|---------|--------------------------------|---|---|-----------|-------|---|---|
| EB Left           | *       |                                |   |   | NB Left   | *     |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |
| WB Left           | *       |                                |   |   | SB Left   | *     |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |
| NB Right          |         |                                |   |   | EB Right  |       |   |   |
| SB Right          |         |                                |   |   | WB Right  |       |   |   |
| Green             | 26.0A   |                                |   |   | Green     | 52.0A |   |   |
| Yellow/AR         | 6.0     |                                |   |   | Yellow/AR | 6.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 |   |   |           |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       | Approach: |       |      |   |
|-------|--------|---------|-------|-------|-------|-----------|-------|------|---|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS       | Delay | LOS  |   |
| EB    | LT     | 466     | 1447  | 0.395 | 0.322 | 15.6      | C     | 15.2 | C |
|       | R      | 505     | 1568  | 0.115 | 0.322 | 13.9      | B     |      |   |
| WB    | LTR    | 454     | 1409  | 0.568 | 0.322 | 17.6      | C     | 17.6 | C |
| NB    | L      | 637     | 1042  | 0.099 | 0.611 | 4.7       | A     | 5.2  | B |
|       | T      | 1085    | 1776  | 0.291 | 0.611 | 5.4       | B     |      |   |
|       | R      | 958     | 1568  | 0.071 | 0.611 | 4.6       | A     |      |   |
| SB    | L      | 466     | 763   | 0.169 | 0.611 | 4.9       | A     | 5.0  | A |
|       | TR     | 1068    | 1748  | 0.192 | 0.611 | 5.0       | A     |      |   |

Intersection Delay = 9.7 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.387

HCM: SIGNALIZED INTERSECTION SUMMARY Center For Microcomputers In Transportation

Version 2.4e 01-25-1999

Streets: (E-W) Zepherhills Bypass (N-S) SR 39

Analyst: JW File Name: SR 39-56.HC9

Area Type: Other 1-11-99 PM

Comment: 1998 PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 1    | < 0  | 1          | 1    | 1    |
| Volumes     | 5         | 95   | 85   | 70        | 60   | 35   | 105        | 205  | 70   | 20         | 195  | 5    |
| PHF or PK15 | 0.95      | 0.95 | 0.95 | 0.95      | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 |      | 12.0       | 12.0 | 12.0 |
| Grade       | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      |      |
| % Heavy Veh | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 7    | 3    | 3          | 7    | 3    |
| Parking     | N         | N    |      | N         | N    |      | N          | N    |      | N          | N    |      |
| Bus Stops   |           | 0    |      |           | 0    |      |            |      | 0    |            |      | 0    |
| Con. Peds   |           | 0    |      |           | 0    |      |            |      | 0    |            |      | 0    |
| Ped Button  | (Y/N)     | N    |      | (Y/N)     | N    |      | (Y/N)      | N    |      | (Y/N)      | N    |      |
| Arr Type    | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 3    |      | 3          | 3    | 3    |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 |      | 3.00       | 3.00 | 3.00 |
| Prop. Share |           |      |      |           |      |      |            |      |      |            |      |      |
| Prop. Prot. |           |      |      |           |      |      |            |      |      |            |      |      |

Signal Operations

| Phase Combination | 1     | 2    | 3                              | 4 | 5         | 6     | 7 | 8 |
|-------------------|-------|------|--------------------------------|---|-----------|-------|---|---|
| EB Left           | *     |      |                                |   | NB Left   | *     |   |   |
| Thru              | *     |      |                                |   | Thru      | *     |   |   |
| Right             | *     |      |                                |   | Right     | *     |   |   |
| Peds              |       |      |                                |   | Peds      |       |   |   |
| WB Left           | *     |      |                                |   | SB Left   | *     |   |   |
| Thru              | *     |      |                                |   | Thru      | *     |   |   |
| Right             | *     |      |                                |   | Right     | *     |   |   |
| Peds              |       |      |                                |   | Peds      |       |   |   |
| NB Right          |       |      |                                |   | EB Right  |       |   |   |
| SB Right          |       |      |                                |   | WB Right  |       |   |   |
| Green             | 35.0A |      |                                |   | Green     | 43.0A |   |   |
| Yellow/AR         | 6.0   |      |                                |   | Yellow/AR | 6.0   |   |   |
| Cycle Length:     | 90    | secs | Phase combination order: #1 #5 |   |           |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   | Approach: |      |       |      |
|-------|--------|---------|-------|-------|-----------|------|-------|------|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay     | LOS  | Delay | LOS  |
| EB    | L      | 621     | 1470  | 0.008 | 0.422     | 9.7  | B     | 10.3 |
|       | T      | 779     | 1845  | 0.128 | 0.422     | 10.3 | B     |      |
|       | R      | 662     | 1568  | 0.134 | 0.422     | 10.3 | B     |      |
| WB    | L      | 566     | 1339  | 0.131 | 0.422     | 10.3 | B     | 10.1 |
|       | T      | 779     | 1845  | 0.081 | 0.422     | 10.0 | B     |      |
|       | R      | 662     | 1568  | 0.056 | 0.422     | 9.9  | B     |      |
| NB    | L      | 516     | 1009  | 0.215 | 0.511     | 7.8  | B     | 8.3  |
|       | TR     | 881     | 1724  | 0.329 | 0.511     | 8.4  | B     |      |
| SB    | L      | 395     | 772   | 0.053 | 0.511     | 7.1  | B     | 7.8  |
|       | T      | 908     | 1776  | 0.226 | 0.511     | 7.9  | B     |      |
|       | R      | 801     | 1568  | 0.006 | 0.511     | 7.0  | B     |      |

Intersection Delay = 8.9 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.241

Center For Microcomputers In Transportation  
 University of Florida  
 512 Weil Hall  
 Gainesville, FL 32611-2083  
 Ph: (904) 392-0378

Streets: (N-S) SR 39 (E-W) US 301

Major Street Direction.... EW

Length of Time Analyzed... 60 (min)

Analyst..... JW

Date of Analysis..... 1/25/99

Other Information..... 1998 PM Peak Hour

Two-way Stop-controlled Intersection

|             | Eastbound |     |      | Westbound |     |   | Northbound |   |   | Southbound |   |   |
|-------------|-----------|-----|------|-----------|-----|---|------------|---|---|------------|---|---|
|             | L         | T   | R    | L         | T   | R | L          | T | R | L          | T | R |
| No. Lanes   | 0         | 1   | < 0  | 1         | 1   | 0 | 0          | 0 | 1 | 0          | 0 | 0 |
| Stop/Yield  |           |     | N    |           |     | N |            |   |   |            |   |   |
| Volumes     | 485       | 10  |      | 250       | 285 |   |            |   |   | 280        |   |   |
| PHF         | .95       | .95 |      | .95       | .95 |   |            |   |   | .95        |   |   |
| Grade       | 0         |     |      | 0         |     |   | 0          |   |   |            |   |   |
| MC's (%)    |           |     | 0    |           |     |   |            |   |   | 0          |   |   |
| SU/RV's (%) |           |     | 0    |           |     |   |            |   |   | 0          |   |   |
| CV's (%)    |           |     | 7    |           |     |   |            |   |   | 7          |   |   |
| PCE's       |           |     | 1.07 |           |     |   |            |   |   | 1.07       |   |   |

#### Adjustment Factors

| Vehicle Maneuver           | Critical Gap (tg) | Follow-up Time (tf) |
|----------------------------|-------------------|---------------------|
| Left Turn Major Road       | 5.00              | 2.10                |
| Right Turn Minor Road      | 5.50              | 2.60                |
| Through Traffic Minor Road | 6.00              | 3.30                |
| Left Turn Minor Road       | 6.50              | 3.40                |

## Worksheet for TWSC Intersection

| Step 1: RT from Minor Street |  | NB   | SB |
|------------------------------|--|------|----|
| Conflicting Flows: (vph)     |  | 516  |    |
| Potential Capacity: (pcph)   |  | 758  |    |
| Movement Capacity: (pcph)    |  | 758  |    |
| Prob. of Queue-Free State:   |  | 0.58 |    |

| Step 2: LT from Major Street |  | WB   | EB |
|------------------------------|--|------|----|
| Conflicting Flows: (vph)     |  | 522  |    |
| Potential Capacity: (pcph)   |  | 967  |    |
| Movement Capacity: (pcph)    |  | 967  |    |
| Prob. of Queue-Free State:   |  | 0.71 |    |

## Intersection Performance Summary

| Movement | Flow Rate<br>(pcph) | Move Cap<br>(pcph) | Shared Cap<br>(pcph) | Avg.                     | 95%                   | Approach Delay<br>(sec/veh) |
|----------|---------------------|--------------------|----------------------|--------------------------|-----------------------|-----------------------------|
|          |                     |                    |                      | Total Delay<br>(sec/veh) | Queue Length<br>(veh) |                             |
| NB R     | 316                 | 758                |                      | 8.1                      | 2.4                   | B 8.1                       |
| WB L     | 281                 | 967                |                      | 5.2                      | 1.4                   | B 2.5                       |

Intersection Delay = 2.7 sec/veh

TABLE E - 2

**GENERALIZED ANNUAL AVERAGE DAILY VOLUMES FOR FLORIDA'S  
AREAS TRANSITIONING INTO URBANIZED AREAS OR  
AREAS OVER 5000 NOT IN URBANIZED AREAS\***

| STATE TWO-WAY ARTERIALS<br>UNINTERRUPTED FLOW  |           |                    |                    |        |        | FREEWAYS |                  |        |         |         |         |  |  |  |  |  |  |  |
|--|-----------|--------------------|--------------------|--------|--------|----------|------------------|--------|---------|---------|---------|--|--|--|--|--|--|--|
|  |           | Level of Service   |                    |        |        |          | Level of Service |        |         |         |         |  |  |  |  |  |  |  |
| Lanes  | A         | B                  | C                  | D      | E      | A        | B                | C      | D       | E       |         |  |  |  |  |  |  |  |
| 2 Undiv.   | 8,400     | 13,000             | 17,700             | 23,300 | 31,000 | 4        | 20,100           | 32,200 | 47,900  | 60,400  | 68,100  |  |  |  |  |  |  |  |
| 4 Div.   | 20,600    | 34,500             | 47,800             | 57,000 | 66,300 | 6        | 30,400           | 48,500 | 72,200  | 91,100  | 107,300 |  |  |  |  |  |  |  |
| 6 Div.   | 30,800    | 51,700             | 71,600             | 85,600 | 99,500 | 8        | 40,500           | 64,700 | 96,300  | 121,500 | 143,100 |  |  |  |  |  |  |  |
|  |           |                    |                    |        |        | 10       | 50,600           | 80,900 | 120,400 | 151,900 | 178,900 |  |  |  |  |  |  |  |
| INTERRUPTED FLOW   |           |                    |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| Class Ia (>0.00 to 2.49 signalized intersections per mile)   |           |                    |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| Lanes  | A**       | B**                | C                  | D***   | E***   | A        | B                | C      | D       | E       |         |  |  |  |  |  |  |  |
| 2 Undiv.   | -         | 11,500             | 14,000             | 15,300 | 15,900 | -        | -                | 9,900  | 12,900  | 14,100  |         |  |  |  |  |  |  |  |
| 4 Div.   | -         | 25,500             | 30,600             | 32,800 | 33,500 | -        | -                | 22,100 | 28,200  | 30,200  |         |  |  |  |  |  |  |  |
| 6 Div.   | -         | 39,600             | 46,400             | 49,700 | 50,300 | -        | -                | 34,300 | 43,200  | 45,700  |         |  |  |  |  |  |  |  |
| Class Ib (2.50 to 4.50 signalized intersections per mile)  |           |                    |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| Lanes  | A**       | B**                | C                  | D      | E      | A        | B                | C      | D       | E       |         |  |  |  |  |  |  |  |
| 2 Undiv.   | -         | -                  | 8,000              | 13,200 | 14,600 | -        | -                | -      | 4,700   | 9,200   |         |  |  |  |  |  |  |  |
| 4 Div.   | -         | -                  | 17,600             | 28,600 | 31,300 | -        | -                | -      | 10,300  | 20,500  |         |  |  |  |  |  |  |  |
| 6 Div.   | -         | -                  | 26,900             | 43,600 | 47,300 | -        | -                | -      | -       | 22,800  |         |  |  |  |  |  |  |  |
| Class II (more than 4.50 signalized intersections per mile and not within primary city central business district or urbanized area over 500,000) |           |                    |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| Lanes  | A**       | B**                | C**                | D      | E      | A        | B                | C      | D       | E       |         |  |  |  |  |  |  |  |
| 2 Undiv.   | -         | -                  | -                  | 10,900 | 14,100 | -        | -                | -      | -       | -       |         |  |  |  |  |  |  |  |
| 4 Div.   | -         | -                  | -                  | 24,600 | 30,900 | -        | -                | -      | -       | -       |         |  |  |  |  |  |  |  |
| 6 Div.   | -         | -                  | -                  | 37,800 | 47,000 | -        | -                | -      | -       | -       |         |  |  |  |  |  |  |  |
| ADJUSTMENTS  |           |                    |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| DIVIDED/UNDIVIDED<br>(alter corresponding two-way volume indicated percent)  |           |                    |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| Lanes  | Median    | Bays               | Adjustment Factors |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| 2  | Divided   | Yes                | +5%                |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| 2  | Undivided | No                 | -20%               |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| Multi  | Undivided | Yes                | -5%                |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| Multi  | Undivided | No                 | -25%               |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| ONE-WAY<br>(alter corresponding two-way volume indicated percent)  |           |                    |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| One-Way  | Lanes     | Adjustment Factors |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| 2  | 4         | -40%               |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| 3  | 6         | -40%               |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |
| 4  | 6         | -25%               |                    |        |        |          |                  |        |         |         |         |  |  |  |  |  |  |  |

The table does not constitute a standard and should be used only for general planning applications. The computer models from which this table is derived should be used for more specific planning applications. The table and deriving computer models should not be used for corridor or intersection design, where more refined techniques exist. Values shown are annual average daily traffic (AADT) maximum volumes (based on  $K_{max}$  factors, not peak to daily ratios) for levels of service, and are based on the 1994 Highway Capacity Manual Update and Florida traffic, roadway and signalization data. The table's input value assumptions and level of service criteria appear on the back.

\*\* Cannot be achieved.

\*\*\* Volumes are comparable because intersection capacities are reached.

Source: Florida Department of Transportation, 1995.

---

## No Build Alternative

TURNS4 Analysis Documentation

## DATA INPUT

Date:

Analyst:  PAP

30-Mar-99

|               |                       |
|---------------|-----------------------|
| Highway:      | SR 39 - NO BUILD - AM |
| Intersection: | Saint Allen Rd.       |
| From:         | Opening Day           |
| To:           | 2010 (From 2005 Base) |
| County:       | Hillsborough          |

North/South Orientation of Mainline?  Y  
 (Y/N)

|               |            |            |  |
|---------------|------------|------------|--|
| K Factors:    | Sidestreet | D Factors: | a. Mainline                                  |
| Mainline      | 9.54%      | 9.54%      | 40.5% Northbound(NB)<br>59.5% Southbound(SB) |
| b. Sidestreet |            |            | 40.5% Eastbound(EB)<br>59.5% Westbound(WB)   |

Do you have FSUTMS Model Year Traffic from which you would like to  
interpolate/extrapolate for project years? (Y/N)  Y

Manual Instr:

If Y, go to A43

If N, go to A24

Enter Year and Growth Rates from Base Year:  
Year   
Base Opening   
Mid   
Design

IF NO:

Enter Base Year AADTs for Volume Comparison:  
(uses growth rates to calculate other project years)

| RANGE NAMES FOR YEARS: |      |                        |                         |                         |
|------------------------|------|------------------------|-------------------------|-------------------------|
| Base                   | 2005 | From East: EB Approach | From North: WB Approach | From South: SB Approach |
| Open                   | 2010 | 2,100                  | 2,700                   | 5,950                   |
| Mid                    | 2015 | 2,400                  | 3,083                   | 7,100                   |
| Design                 | 2020 | 2,700                  | 3,467                   | 8,250                   |

### AREA FOR CALCULATIONS: 1/2\_OF\_INPUT\_AADT

| Year | From West: EB Approach | From East: WB Approach | From North: SB Approach | From South: NB Approach | TOTAL  |
|------|------------------------|------------------------|-------------------------|-------------------------|--------|
| 2005 | 2,100                  | 2,700                  | 5,950                   | 8,400                   | 16,150 |
| 2010 | 2,400                  | 3,083                  | 7,100                   | 9,600                   | 22,183 |
| 2015 | 2,700                  | 3,467                  | 8,250                   | 10,800                  | 25,217 |
| 2020 | 3,000                  | 3,850                  | 9,400                   | 12,000                  | 28,250 |

| Year | From West: EB Approach | From East: WB Approach | From North: SB Approach | From South: NB Approach | TOTAL  |
|------|------------------------|------------------------|-------------------------|-------------------------|--------|
| 2005 | 0                      | 2,100                  | 5,950                   | 8,400                   | 16,150 |
| 2010 | 0                      | 2,400                  | 3,083                   | 7,100                   | 9,600  |
| 2015 | 0                      | 2,700                  | 3,467                   | 8,250                   | 10,800 |
| 2020 | 0                      | 3,000                  | 3,850                   | 9,400                   | 12,000 |

# DATA INPUT

Date:

Analyst:  PAP

30-Mar-99

If YES: Enter Project & Model Years:

|         |      |
|---------|------|
| Base    | 2005 |
| Opening | 2010 |
| Mid     | 2015 |
| Design  | 2020 |
| Model   | 2020 |

## Enter Base &amp; Model Year AADTs for Interpolation:

| Base | From West<br>(EB) Approach | From East<br>(WB) Approach | From North<br>(SB) Approach | From South<br>(NB) Approach | TOTAL  |
|------|----------------------------|----------------------------|-----------------------------|-----------------------------|--------|
| 2005 | 4,200                      | 5,400                      | 11,900                      | 16,800                      | 38,300 |
| 2020 | 6,000                      | 7,700                      | 18,800                      | 24,000                      | 56,500 |

## AREA FOR CALCULATION: INTERPOLATION

| model - base: | 15 | diff of yrs: | 1800  | 2300   | 6900   | NB     |
|---------------|----|--------------|-------|--------|--------|--------|
| year          |    | EB           | WB    | WB     | 16,800 | 38,300 |
| 2005          |    | 4,200        | 5,400 | 6,167  | 14,200 | 44,367 |
| 2010          |    | 4,800        |       |        | 19,200 |        |
| 2015          |    | 5,400        | 6,933 |        | 21,600 | 50,433 |
| 2020          |    | 6,000        | 7,700 | 18,800 | 24,000 | 56,500 |

## Enter "1st Guess" Turning Percentages for AADT Balancing:

|           |        |      |
|-----------|--------|------|
| (EB THRU) | W-to-E | 0.40 |
| (EB LT)   | W-to-N | 0.10 |
| (EB RT)   | W-to-S | 0.49 |

|           |        |      |
|-----------|--------|------|
| (WB THRU) | E-to-W | 0.32 |
| (WB RT)   | E-to-N | 0.35 |
| (WB LT)   | E-to-S | 0.34 |

|           |        |      |
|-----------|--------|------|
| (SB RT)   | N-to-W | 0.03 |
| (SB LT)   | N-to-E | 0.22 |
| (SB THRU) | N-to-S | 0.75 |

|           |        |      |
|-----------|--------|------|
| (NB LT)   | S-to-W | 0.23 |
| (NB RT)   | S-to-E | 0.14 |
| (NB THRU) | S-to-N | 0.63 |

Desired Closure:  0.010

## Actual/Counted Traffic:

|      |    |
|------|----|
| 2005 | 73 |
|      | 19 |
|      | 90 |

|        |    |
|--------|----|
| E-to-W | 72 |
| E-to-N | 78 |
| E-to-S | 76 |

|        |     |
|--------|-----|
| N-to-W | 15  |
| N-to-E | 105 |
| N-to-S | 354 |

|        |     |
|--------|-----|
| S-to-W | 61  |
| S-to-E | 37  |
| S-to-N | 169 |

## PROJECT TRAFFIC FOR SR 39 - NO BUILD - AM

@ Sam Allen Rd.

TO Opening Day

TO 2010 (From 2005 Base)

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2005

## SR 39 - NO BUILD - AM

|             |                 | 2-WAY AADT TURNING MOVEMENTS IN YEAR |       |    |               |     |        |                       |           |
|-------------|-----------------|--------------------------------------|-------|----|---------------|-----|--------|-----------------------|-----------|
|             |                 | SR 39 - NO BUILD - AM                |       |    | Sam Allen Rd. |     |        | SR 39 - NO BUILD - AM |           |
|             |                 | Sam Allen Rd.                        | 53    | 1% | 9,400         | 88% | 669    | 80                    | 1%        |
| 99          | 200             |                                      | 5,300 | A  |               | A   |        | 87%                   | 87%       |
| 5% < 500    | 2,100 < 3,400   | EW                                   | 1,000 |    | 1,200         | 11% | 577    | 128                   | 200       |
| 71% < 1,487 | 10,500 < 12,400 | N/S                                  | 400   |    | 400           | 21% | 21%    | 6%                    | < 600     |
| 1,603       | 3,100           |                                      | 5,300 | V  | 3,200         | 62% | 2,700  | 2,300 < 4,700         | 26% < 600 |
|             |                 |                                      |       | V  | 1,684         | 16% | 5,400  | N/S                   | 1,100     |
|             |                 |                                      |       | V  | 1,523         | 63% | 1,523  | 12,500                | 500       |
|             |                 |                                      |       | V  | 8,400         | 18% | 12,400 |                       | 500       |
|             |                 |                                      |       | V  |               | 17% | 8,400  |                       | 24%       |
|             |                 |                                      |       | V  |               | 19% | 9,300  |                       |           |
|             |                 |                                      |       | V  |               | 65% | 9,600  |                       |           |
|             |                 |                                      |       | V  |               | 17% | 1,604  |                       |           |

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2015

## SR 39 - NO BUILD - AM

|          |               | 2-WAY AADT TURNING MOVEMENTS IN YEAR |        |    |               |     |        |                       |              |
|----------|---------------|--------------------------------------|--------|----|---------------|-----|--------|-----------------------|--------------|
|          |               | SR 39 - NO BUILD - AM                |        |    | Sam Allen Rd. |     |        | SR 39 - NO BUILD - AM |              |
|          |               | Sam Allen Rd.                        | 102    | 1% | 16,700        | 86% | 1,057  | 123                   | 1%           |
| 171      | 300           |                                      | 7,100  | A  |               | A   | 911    | 217                   | 300          |
| 6% < 700 | 1,400 < 1,440 | EW                                   | 2,000  |    | 600           | 27% | 3,400  | 7%                    | < 900        |
| 2,700    | 27% < 5,500   | N/S                                  | 600    |    | 7,000         | 18% | 6,000  | 3,100                 | 28% < 900    |
| 1,801    | 3,800         |                                      | 14,400 |    | 3,600         | 55% | 1,863  | 6,000                 | 65% < 16,000 |
| 1,979    | 3,800         |                                      | 14,400 |    | 1,704         | 16% | 1,704  | 2,026                 | 4,200        |
|          |               |                                      |        | V  | 10,900        | V   | 10,900 | 2,141                 | 18%          |
|          |               |                                      |        | V  |               | V   |        | 24,000                | 67%          |
|          |               |                                      |        | V  |               | V   |        | 12,000                | 15%          |
|          |               |                                      |        | V  |               | V   |        | 3,800                 | 1,775        |
|          |               |                                      |        | V  |               | V   |        |                       | 1,983        |

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2020

## SR 39 - NO BUILD - AM

|          |               | 2-WAY AADT TURNING MOVEMENTS IN YEAR |        |    |               |     |        |                       |              |       |
|----------|---------------|--------------------------------------|--------|----|---------------|-----|--------|-----------------------|--------------|-------|
|          |               | SR 39 - NO BUILD - AM                |        |    | Sam Allen Rd. |     |        | SR 39 - NO BUILD - AM |              |       |
|          |               | Sam Allen Rd.                        | 102    | 1% | 18,800        | 85% | 1,232  | 123                   | 1%           | 9,300 |
| 171      | 300           |                                      | 7,100  | A  |               | A   | 911    | 217                   | 300          |       |
| 6% < 700 | 1,400 < 1,440 | EW                                   | 2,000  |    | 600           | 27% | 3,400  | 7%                    | < 900        |       |
| 2,700    | 27% < 5,500   | N/S                                  | 600    |    | 7,000         | 18% | 6,000  | 3,100                 | 28% < 900    |       |
| 1,801    | 3,800         |                                      | 14,400 |    | 3,600         | 55% | 1,863  | 6,000                 | 65% < 16,000 |       |
| 1,979    | 3,800         |                                      | 14,400 |    | 1,704         | 16% | 1,704  | 2,026                 | 4,200        |       |
|          |               |                                      |        | V  | 10,900        | V   | 10,900 | 2,141                 | 18%          |       |
|          |               |                                      |        | V  |               | V   |        | 24,000                | 67%          |       |
|          |               |                                      |        | V  |               | V   |        | 12,000                | 15%          |       |
|          |               |                                      |        | V  |               | V   |        | 3,800                 | 1,775        |       |
|          |               |                                      |        | V  |               | V   |        |                       | 1,983        |       |

| PROJECT TRAFFIC FOR                                |       | SR 39 - NO BUILD - AM |  | @ Sam Allen Rd. |  | Opening Day  |       | TO  |  | 2010 (From 2005 Base) |                              |  |  |  |  |
|--|-------|-----------------------|--|-----------------|--|--|-------|---|--|-----------------------|------------------------------|--|--|--|--|
| 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR        |       |                       |  | 2005            |  |  |       | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |  |                       |                              |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |       |                       |  |                 |  | <b>Sam Allen Rd.</b>                               |       |   |  |                       |                              |  |  |  |  |
| 11   | 596   | 68                    |  |                 |  | 11   | 710   | 582   |  |                       | <b>SR_39 - NO BUILD - AM</b> |  |  |  |  |
| 8  |       |                       |  |                 |  | ^  | <--   |   |  |                       |                              |  |  |  |  |
| 166  | 39    |                       |  |                 |  | 68   | 205   | 8   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 57   | 307   |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 182  | 182   | 43  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 131  |       |   |  |                       |                              |  |  |  |  |
| K <sub>ml</sub> =                                  | 9.54% |                       |  |                 |  | v  | <--   |   |  |                       |                              |  |  |  |  |
| K <sub>ss</sub> =                                  | 9.54% |                       |  |                 |  | 120  | 406   | 124   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |                       |  |                 |  | <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |   |  |                       |                              |  |  |  |  |
| 649  |       |                       |  |                 |  | 649  |       | 746   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |       |                       |  |                 |  | <b>Sam Allen Rd.</b>                               |       |   |  |                       |                              |  |  |  |  |
| 17   | 817   | 114                   |  |                 |  | 17   | 908   | 760   |  |                       | <b>SR_39 - NO BUILD - AM</b> |  |  |  |  |
| 12   |       |                       |  |                 |  | ^  | <--   |   |  |                       |                              |  |  |  |  |
| 213  | 54    |                       |  |                 |  | 68   | 270   | 12  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 114  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 79   | 397   |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 204  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 162  |       |   |  |                       |                              |  |  |  |  |
| K <sub>ml</sub> =                                  | 9.54% |                       |  |                 |  | v  | <--   |   |  |                       |                              |  |  |  |  |
| K <sub>ss</sub> =                                  | 9.54% |                       |  |                 |  | 147  | 556   | 139   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |                       |  |                 |  | <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |   |  |                       |                              |  |  |  |  |
| 948  |       |                       |  |                 |  | 948  |       | 1034  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |       |                       |  |                 |  | <b>Sam Allen Rd.</b>                               |       |   |  |                       |                              |  |  |  |  |
| 17   | 817   | 114                   |  |                 |  | 17   | 908   | 760   |  |                       | <b>SR_39 - NO BUILD - AM</b> |  |  |  |  |
| 12   |       |                       |  |                 |  | ^  | <--   |   |  |                       |                              |  |  |  |  |
| 213  | 54    |                       |  |                 |  | 68   | 270   | 12  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 114  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 79   | 397   |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 204  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 162  |       |   |  |                       |                              |  |  |  |  |
| K <sub>ml</sub> =                                  | 9.54% |                       |  |                 |  | v  | <--   |   |  |                       |                              |  |  |  |  |
| K <sub>ss</sub> =                                  | 9.54% |                       |  |                 |  | 147  | 556   | 139   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |                       |  |                 |  | <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |   |  |                       |                              |  |  |  |  |
| 842  |       |                       |  |                 |  | 842  |       | 1286  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |       |                       |  |                 |  | <b>Sam Allen Rd.</b>                               |       |   |  |                       |                              |  |  |  |  |
| 17   | 817   | 114                   |  |                 |  | 17   | 908   | 760   |  |                       | <b>SR_39 - NO BUILD - AM</b> |  |  |  |  |
| 12   |       |                       |  |                 |  | ^  | <--   |   |  |                       |                              |  |  |  |  |
| 213  | 54    |                       |  |                 |  | 68   | 270   | 12  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 114  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 79   | 397   |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 204  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 162  |       |   |  |                       |                              |  |  |  |  |
| K <sub>ml</sub> =                                  | 9.54% |                       |  |                 |  | v  | <--   |   |  |                       |                              |  |  |  |  |
| K <sub>ss</sub> =                                  | 9.54% |                       |  |                 |  | 147  | 556   | 139   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |                       |  |                 |  | <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |   |  |                       |                              |  |  |  |  |
| 948  |       |                       |  |                 |  | 948  |       | 1034  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |       |                       |  |                 |  | <b>Sam Allen Rd.</b>                               |       |   |  |                       |                              |  |  |  |  |
| 17   | 817   | 114                   |  |                 |  | 17   | 908   | 760   |  |                       | <b>SR_39 - NO BUILD - AM</b> |  |  |  |  |
| 12   |       |                       |  |                 |  | ^  | <--   |   |  |                       |                              |  |  |  |  |
| 213  | 54    |                       |  |                 |  | 68   | 270   | 12  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 114  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 79   | 397   |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 204  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 162  |       |   |  |                       |                              |  |  |  |  |
| K <sub>ml</sub> =                                  | 9.54% |                       |  |                 |  | v  | <--   |   |  |                       |                              |  |  |  |  |
| K <sub>ss</sub> =                                  | 9.54% |                       |  |                 |  | 147  | 556   | 139   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |                       |  |                 |  | <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |   |  |                       |                              |  |  |  |  |
| 948  |       |                       |  |                 |  | 948  |       | 1034  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |       |                       |  |                 |  | <b>Sam Allen Rd.</b>                               |       |   |  |                       |                              |  |  |  |  |
| 17   | 817   | 114                   |  |                 |  | 17   | 908   | 760   |  |                       | <b>SR_39 - NO BUILD - AM</b> |  |  |  |  |
| 12   |       |                       |  |                 |  | ^  | <--   |   |  |                       |                              |  |  |  |  |
| 213  | 54    |                       |  |                 |  | 68   | 270   | 12  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 114  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 79   | 397   |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 204  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 162  |       |   |  |                       |                              |  |  |  |  |
| K <sub>ml</sub> =                                  | 9.54% |                       |  |                 |  | v  | <--   |   |  |                       |                              |  |  |  |  |
| K <sub>ss</sub> =                                  | 9.54% |                       |  |                 |  | 147  | 556   | 139   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |                       |  |                 |  | <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |   |  |                       |                              |  |  |  |  |
| 948  |       |                       |  |                 |  | 948  |       | 1034  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |       |                       |  |                 |  | <b>Sam Allen Rd.</b>                               |       |   |  |                       |                              |  |  |  |  |
| 17   | 817   | 114                   |  |                 |  | 17   | 908   | 760   |  |                       | <b>SR_39 - NO BUILD - AM</b> |  |  |  |  |
| 12   |       |                       |  |                 |  | ^  | <--   |   |  |                       |                              |  |  |  |  |
| 213  | 54    |                       |  |                 |  | 68   | 270   | 12  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 114  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 79   | 397   |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 204  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 162  |       |   |  |                       |                              |  |  |  |  |
| K <sub>ml</sub> =                                  | 9.54% |                       |  |                 |  | v  | <--   |   |  |                       |                              |  |  |  |  |
| K <sub>ss</sub> =                                  | 9.54% |                       |  |                 |  | 147  | 556   | 139   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |                       |  |                 |  | <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |       |   |  |                       |                              |  |  |  |  |
| 948  |       |                       |  |                 |  | 948  |       | 1034  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D nb&sb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | D eb&wb =  | 40.5% | 59.5%                                       |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ml</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | K <sub>ss</sub> =                                  | 9.54% |   |  |                       |                              |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |       |                       |  |                 |  | <b>Sam Allen Rd.</b>                               |       |   |  |                       |                              |  |  |  |  |
| 17   | 817   | 114                   |  |                 |  | 17   | 908   | 760   |  |                       | <b>SR_39 - NO BUILD - AM</b> |  |  |  |  |
| 12   |       |                       |  |                 |  | ^  | <--   |   |  |                       |                              |  |  |  |  |
| 213  | 54    |                       |  |                 |  | 68   | 270   | 12  |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 114  |       |   |  |                       |                              |  |  |  |  |
|  |       |                       |  |                 |  | 79   |       |   |  |                       |                              |  |  |  |  |

**PROJECT TRAFFIC FOR**      **SR 39 - NO BUILD - AM**      **@**      **Sam Allen Rd.**

**2005 TRAFFIC**

| Sam Allen Rd. |                       | Sam Allen Rd. |                       |
|---------------|-----------------------|---------------|-----------------------|
| 9,400         | SR_39 - NO_BUILD - AM | 9,400         | SR_39 - NO_BUILD - AM |
| 200           | ^                     | 200           | ^                     |
| <-----        | 1,000                 | <-----        | 1,000                 |
| 3,100         | ^                     | 3,100         | ^                     |
| <-----        | 10,500                | <-----        | 10,500                |
| 3,100         | v                     | 3,100         | v                     |
| X,XXX -       | 2005                  | X,XXX -       | 2005                  |
|               |                       | X,XXX -       | 2010                  |
|               |                       | X,XXX -       | Ratio                 |

**2005 TRAFFIC COMPARED TO**      **2010 TRAFFIC**

| Sam Allen Rd. |                       | Sam Allen Rd. |                       |
|---------------|-----------------------|---------------|-----------------------|
| 9,400         | SR_39 - NO BUILD - AM | 9,400         | SR_39 - NO BUILD - AM |
| 16,700        | 1.78                  | 16,700        | 2.00                  |
| 200           | ^                     | 200           | ^                     |
| 300           |                       | 300           |                       |
| 1,500         | 1,000                 | 1,500         | 1,000                 |
| <-----        | 1,400                 | <-----        | 1,400                 |
| 3,100         | ^                     | 3,100         | ^                     |
| 5,500         | v                     | 5,500         | v                     |
| 1.77          |                       | 1.77          |                       |
| X,XXX -       | 2005                  | X,XXX -       | 2005                  |
|               |                       | X,XXX -       | 2015                  |
|               |                       | X,XXX -       | Ratio                 |

**2005 TRAFFIC**

| Sam Allen Rd. |                       | Sam Allen Rd. |                       |
|---------------|-----------------------|---------------|-----------------------|
| 9,400         | SR_39 - NO BUILD - AM | 9,400         | SR_39 - NO BUILD - AM |
| 200           | ^                     | 200           | ^                     |
| <-----        | 1,000                 | <-----        | 1,000                 |
| 3,100         | ^                     | 3,100         | ^                     |
| <-----        | 1,37                  | <-----        | 1,37                  |
| 3,100         | v                     | 3,100         | v                     |
| X,XXX -       | 2005                  | X,XXX -       | 2005                  |
|               |                       | X,XXX -       | 2015                  |
|               |                       | X,XXX -       | Ratio                 |

**2005 TRAFFIC COMPARED TO**      **2010 TRAFFIC**

| Sam Allen Rd. |                       | Sam Allen Rd. |                       |
|---------------|-----------------------|---------------|-----------------------|
| 9,400         | SR_39 - NO BUILD - AM | 9,400         | SR_39 - NO BUILD - AM |
| 12,400        | 1.56                  | 12,400        | 1.56                  |
| 200           | ^                     | 200           | ^                     |
| <-----        | 10,500                | <-----        | 10,500                |
| 3,100         | v                     | 3,100         | v                     |
| X,XXX -       | 2005                  | X,XXX -       | 2005                  |
|               |                       | X,XXX -       | 2010                  |
|               |                       | X,XXX -       | Ratio                 |

**2005 TRAFFIC**

| Sam Allen Rd. |                       | Sam Allen Rd. |                       |
|---------------|-----------------------|---------------|-----------------------|
| 9,400         | SR_39 - NO BUILD - AM | 9,400         | SR_39 - NO BUILD - AM |
| 200           | ^                     | 200           | ^                     |
| <-----        | 1,400                 | <-----        | 1,400                 |
| 3,100         | ^                     | 3,100         | ^                     |
| 5,500         | v                     | 5,500         | v                     |
| 1.77          |                       | 1.77          |                       |
| X,XXX -       | 2005                  | X,XXX -       | 2005                  |
|               |                       | X,XXX -       | 2015                  |
|               |                       | X,XXX -       | Ratio                 |

**2005 TRAFFIC COMPARED TO**      **2010 TRAFFIC**

| Sam Allen Rd. |                       | Sam Allen Rd. |                       |
|---------------|-----------------------|---------------|-----------------------|
| 9,400         | SR_39 - NO BUILD - AM | 9,400         | SR_39 - NO BUILD - AM |
| 12,400        | 1.19                  | 12,400        | 1.19                  |
| 200           | ^                     | 200           | ^                     |
| <-----        | 10,500                | <-----        | 10,500                |
| 3,100         | v                     | 3,100         | v                     |
| X,XXX -       | 2005                  | X,XXX -       | 2005                  |
|               |                       | X,XXX -       | 2010                  |
|               |                       | X,XXX -       | Ratio                 |

| PROJECT TRAFFIC FOR             |                      | SR 39 - NO BUILD - AM |                       | @ Sam Allen Rd.                 |                      | Opening Day |                       | TO 2010 (From 2005 Base)        |      |
|---------------------------------|----------------------|-----------------------|-----------------------|---------------------------------|----------------------|-------------|-----------------------|---------------------------------|------|
| 2005 ACTUAL TRAFFIC COMPARED TO |                      | 2005 DHV              |                       | 2005 ACTUAL TRAFFIC COMPARED TO |                      | 2005 DHV    |                       | 2005 ACTUAL TRAFFIC COMPARED TO |      |
| Sam Allen Rd.                   | (15)                 | (354)                 | SR 39 - NO BUILD - AM | Sam Allen Rd.                   | (15)                 | (354)       | SR 39 - NO BUILD - AM | Sam Allen Rd.                   | (15) |
| 11                              | 596                  | (105)                 |                       | 11                              | 710                  | (105)       |                       | 11                              | 710  |
| 0.76                            | 1.68                 | 68                    |                       | 0.76                            | 2.00                 | 91          |                       | 0.76                            | 2.00 |
| <--                             |                      | 0.65                  |                       | <--                             |                      | 0.86        |                       | <--                             |      |
| (19) ^                          |                      | --> ^                 |                       | (19) ^                          |                      | --> ^       |                       | (19) ^                          |      |
| 8                               | v                    |                       |                       | 8                               | v                    |             |                       | 8                               | v    |
| 0.41 ---->                      |                      |                       |                       | 0.87                            | (72)                 |             |                       | 0.87                            | (72) |
| (73) 39                         | 0.53                 | (90) ---->            |                       | (73) 57                         | (72)                 |             |                       | (73) 43                         | (72) |
| 120                             | 1.33 v               | <--                   |                       | 182                             | 0.79                 | (90) ---->  |                       | 131                             | 0.58 |
| (61)                            | (61)                 | -->                   |                       | 2.39                            |                      |             |                       | 1.46 v                          |      |
| (37) (169)                      | (169)                |                       |                       |                                 |                      |             |                       | (61)                            |      |
| 120                             | 120                  | -->                   |                       |                                 |                      |             |                       | (169)                           |      |
| (169)                           | (169)                |                       |                       |                                 |                      |             |                       | 131                             |      |
| 124                             | 124                  |                       |                       |                                 |                      |             |                       | 131                             |      |
| 3.34                            | 3.34                 |                       |                       |                                 |                      |             |                       | 483                             | 3.55 |
| 1.96                            | 1.96                 |                       |                       |                                 |                      |             |                       | 2.15                            | 2.86 |
| 2.40                            | 2.40                 |                       |                       |                                 |                      |             |                       |                                 |      |
| (XXX) - Actual                  | (XXX) - Actual       |                       |                       | (XXX) - Actual                  | (XXX) - Actual       |             |                       |                                 |      |
| XXX - Calculated DHV            | XXX - Calculated DHV |                       |                       | XXX - Calculated DHV            | XXX - Calculated DHV |             |                       |                                 |      |
| XXX - Ratio                     | XXX - Ratio          |                       |                       | XXX - Ratio                     | XXX - Ratio          |             |                       |                                 |      |
| 2005 ACTUAL TRAFFIC COMPARED TO |                      | 2015 DHV              |                       | 2005 ACTUAL TRAFFIC COMPARED TO |                      | 2020 DHV    |                       | 2020 DHV                        |      |
| Sam Allen Rd.                   | (15)                 | (354)                 | SR 39 - NO BUILD - AM | Sam Allen Rd.                   | (15)                 | (354)       | SR 39 - NO BUILD - AM | Sam Allen Rd.                   | (15) |
| 17                              | 817                  | (105)                 |                       | 17                              | 908                  | (105)       |                       | 17                              | 908  |
| 1.14                            | 2.31                 | 114                   |                       | 1.14                            | 2.57                 | 131         |                       | 1.14                            | 2.57 |
| <--                             |                      | -->                   |                       | <--                             |                      | -->         |                       | <--                             |      |
| (19) ^                          |                      | --> ^                 |                       | (19) ^                          |                      | --> ^       |                       | (19) ^                          |      |
| 12                              | v                    |                       |                       | 12                              | v                    |             |                       | 12                              | v    |
| 0.61 ---->                      |                      |                       |                       | 1.46                            | (72)                 |             |                       | 1.46                            | (72) |
| (73) 54                         | 0.74                 | (90) ---->            |                       | 79                              | (72)                 |             |                       | 79                              | (72) |
| 147                             | 1.63 v               | <--                   |                       | 62                              | 1.10                 | (90) ---->  |                       | 62                              | 1.10 |
| (61)                            | (61)                 | -->                   |                       | 0.85                            |                      |             |                       | 0.85                            |      |
| (37) (169)                      | (169)                |                       |                       |                                 |                      |             |                       |                                 |      |
| 139                             | 139                  |                       |                       |                                 |                      |             |                       |                                 |      |
| 204                             | 2.69                 |                       |                       |                                 |                      |             |                       |                                 |      |
| 3.76                            | 3.29                 |                       |                       |                                 |                      |             |                       |                                 |      |
| (XXX) - Actual                  | (XXX) - Actual       |                       |                       | (XXX) - Actual                  | (XXX) - Actual       |             |                       |                                 |      |
| XXX - Calculated DHV            | XXX - Calculated DHV |                       |                       | XXX - Calculated DHV            | XXX - Calculated DHV |             |                       |                                 |      |
| XXX - Ratio                     | XXX - Ratio          |                       |                       | XXX - Ratio                     | XXX - Ratio          |             |                       |                                 |      |

# DATA INPUT

Date:

28-Nov-98

Analyst: PAP  
 Highway: SR 39 - NO BUILD - PM  
 Intersection: Sam Allen Rd.  
 From: Opening Day  
 To: 2010 (From 2005 Base)  
 County: Hillsborough

North/South Orientation of Mainline?  
 (Y/N) Y

K Factors:  
 Mainline: Sidesreet  
 9.54% 9.54%  
 9.54% 9.54%

D Factors:

a. Mainline  
 59.5% Northbound(NB)  
 40.5% Southbound(SB)  
 b. Sidestreet  
 40.5% Eastbound(EB)  
 59.5% Westbound(WB)

Do you have FSUTMS Model Year Traffic from which you would like to  
 interpolate/extrapolate for project years? (Y/N)  
 Y

IF NO: Enter Year and Growth Rates from Base Year:  
 Year Rate

|         |  |
|---------|--|
| Base    |  |
| Opening |  |
| Mid     |  |
| Design  |  |

Enter Base Year AADTs for Volume Comparison:  
 (uses growth rates to calculate other project years)

|            |             |             |             |            |            |
|------------|-------------|-------------|-------------|------------|------------|
| From West: | From East:  | From South: | From North: | To East:   | To West:   |
| Year       | EB Approach | WB Approach | NB Approach | nbApproach | wbApproach |
| 2005       |             |             |             |            |            |
| 2010       |             |             |             |            |            |
| 2015       |             |             |             |            |            |
| 2020       |             |             |             |            |            |

| Year | From East:  |             |             | From South: |            |             | From North: |            |             | To East: |          |            | To West:  |        |  |
|------|-------------|-------------|-------------|-------------|------------|-------------|-------------|------------|-------------|----------|----------|------------|-----------|--------|--|
|      | EB Approach | WB Approach | NB Approach | From South: | From East: | From North: | From South: | From East: | From North: | To East: | To West: | sbApproach | To South: | Total  |  |
| 2005 |             |             |             | 0           | 2,100      | 2,700       | 5,950       |            |             | 8,400    |          | 8,400      |           | 19,150 |  |
| 2010 |             |             |             | 0           | 2,400      | 3,083       | 7,100       |            |             | 9,600    |          | 9,600      |           | 22,183 |  |
| 2015 |             |             |             | 0           | 2,700      | 3,467       | 8,250       |            |             | 10,800   |          | 10,800     |           | 25,217 |  |
| 2020 |             |             |             | 0           | 3,000      | 3,850       | 9,400       |            |             | 12,000   |          | 12,000     |           | 28,250 |  |

# DATA INPUT

Date:

PAP

28-Nov-98

|                              |      |
|------------------------------|------|
| Enter Project & Model Years: |      |
| Base                         | 2005 |
| Opening                      | 2010 |
| Mid                          | 2015 |
| Design                       | 2020 |
| Model                        | 2020 |

Enter Base & Model Year AADTs for Interpolation:

| Base | From West    |              | From East    |              | From North   |              | From South   |              | (NB)Approach | (SB)Approach | Year | diff of vols: | model - base: | 15     |        |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|---------------|---------------|--------|--------|
|      | (EB)Approach | (WB)Approach | (EB)Approach | (WB)Approach | (EB)Approach | (WB)Approach | (EB)Approach | (WB)Approach |              |              |      |               |               |        |        |
| 2005 | 4,200        | 5,400        | 11,900       | 16,800       | 38,300       |              | 2005         | 4,200        | 5,400        | 5,400        | 2005 | 1800          | 2300          | 6900   | 7200   |
| 2020 | 6,000        | 7,700        | 18,800       | 24,000       | 56,500       |              | 2010         | 4,800        | 6,167        | 6,167        | 2010 | 4,800         | 14,200        | 16,800 | 38,300 |
|      |              |              |              |              |              |              | 2015         | 5,400        | 6,933        | 6,933        | 2015 | 5,400         | 16,500        | 21,600 | 44,367 |
|      |              |              |              |              |              |              | 2020         | 6,000        | 7,700        | 7,700        | 2020 | 6,000         | 18,800        | 24,000 | 56,500 |

## AREA FOR CALCULATION: INTERPOLATION

| Year | diff of vols: | model - base: | 15    |
|------|---------------|---------------|-------|
| 2005 | 4,200         | 2005          | 1800  |
| 2010 | 4,800         | 2010          | 4,800 |
| 2015 | 5,400         | 2015          | 5,400 |
| 2020 | 6,000         | 2020          | 6,000 |

Enter "1st Guess" Turning Percentages for AADT Balancing:

|           |        |      |        |     |
|-----------|--------|------|--------|-----|
| (EB THRU) | W-to-E | 0.41 | W-to-E | 58  |
| (EB LT)   | W-to-N | 0.11 | W-to-N | 16  |
| (EB RT)   | W-to-S | 0.48 | W-to-S | 67  |
| (WB THRU) | E-to-W | 0.28 | E-to-W | 59  |
| (WB RT)   | E-to-N | 0.45 | E-to-N | 93  |
| (WB LT)   | E-to-S | 0.27 | E-to-S | 56  |
| (SB RT)   | N-to-W | 0.03 | N-to-W | 10  |
| (SB LT)   | N-to-E | 0.20 | N-to-E | 62  |
| (SB THRU) | N-to-S | 0.77 | N-to-S | 237 |
| (NB LT)   | S-to-W | 0.17 | S-to-W | 79  |
| (NB RT)   | S-to-E | 0.18 | S-to-E | 84  |
| (NB THRU) | S-to-N | 0.65 | S-to-N | 312 |

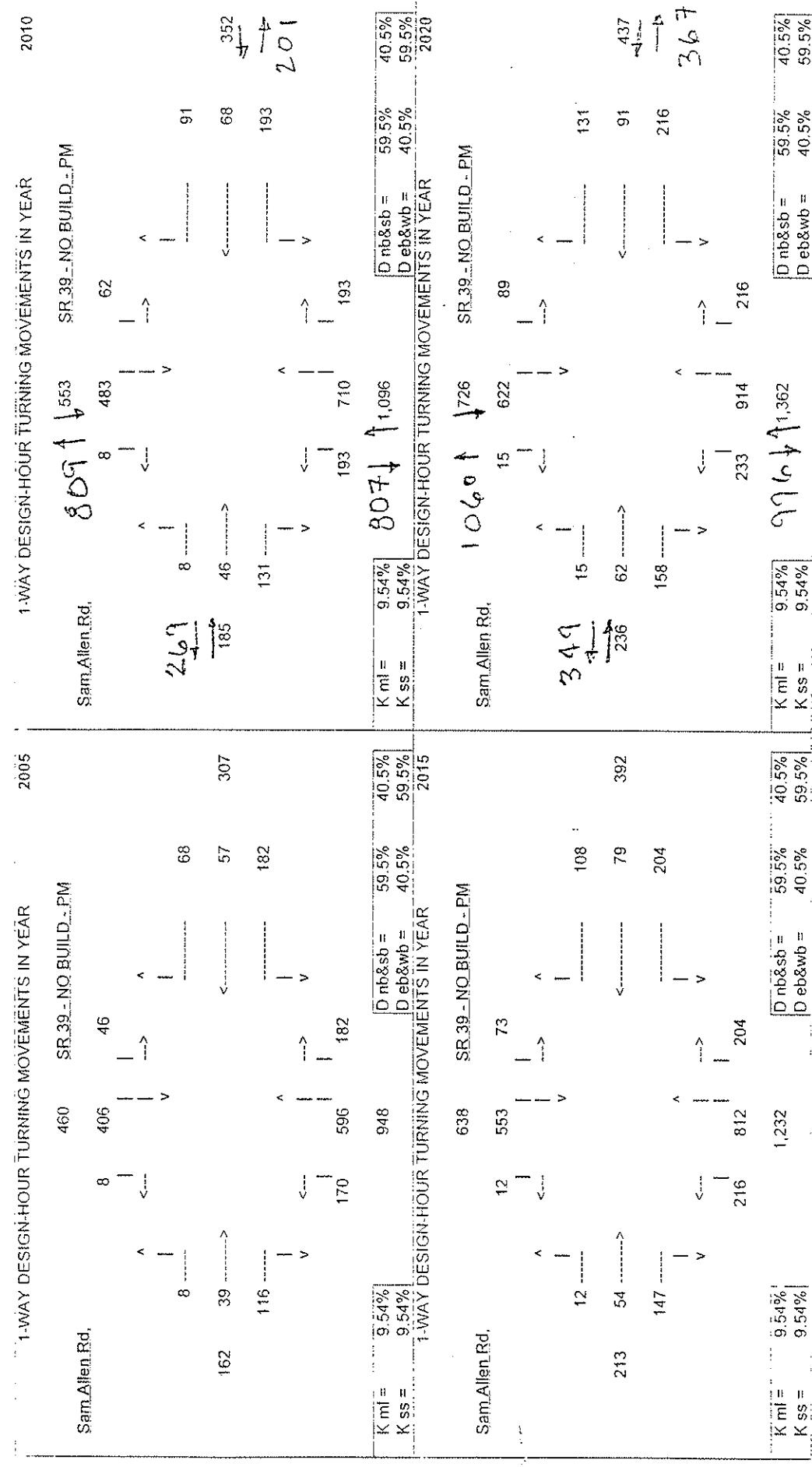
Desired Closure:  0.010

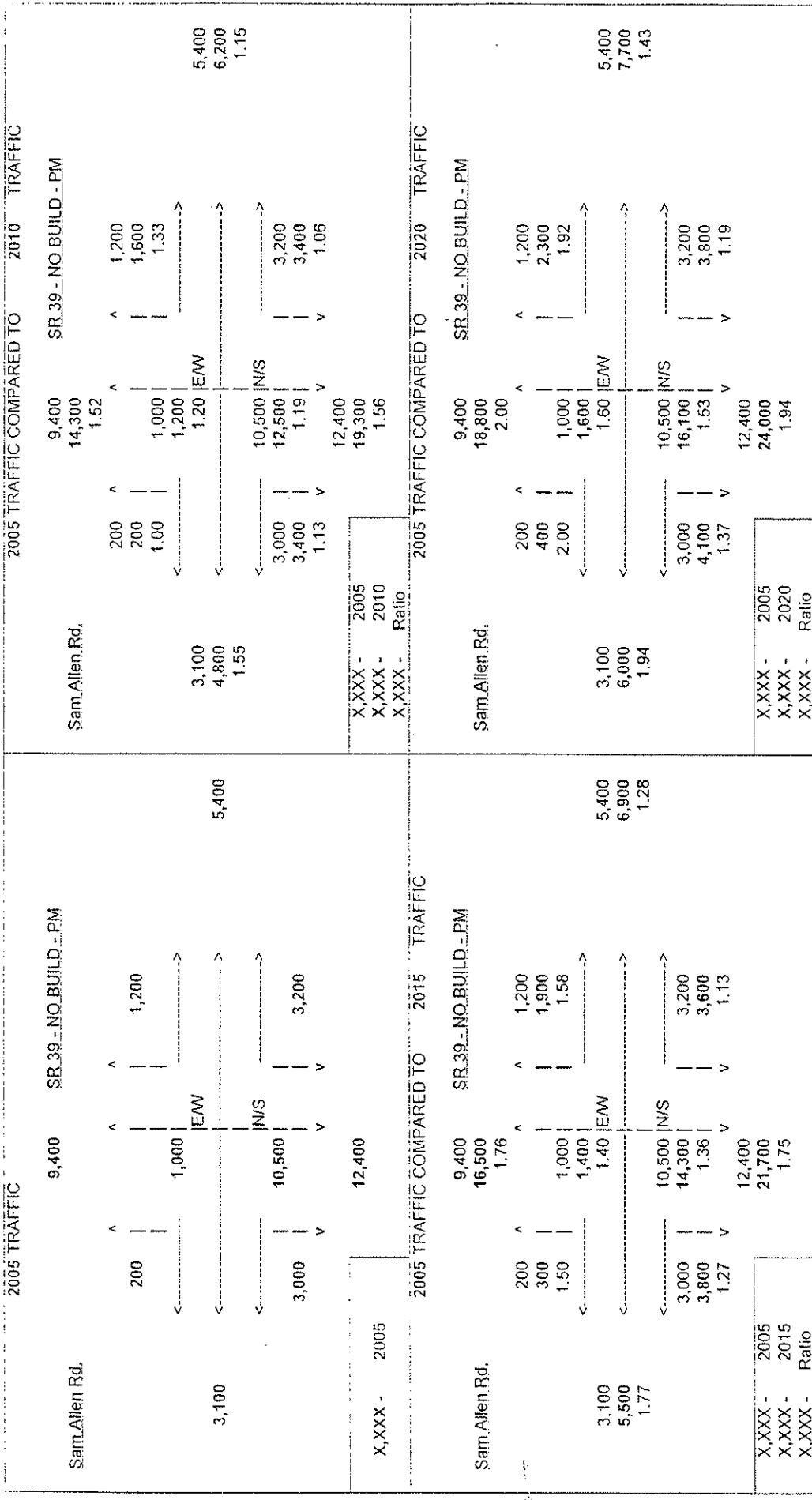
PROJECT TRAFFIC FOR ... SR 39 - NO BUILD - FM ... Opening Day ... TO ... Sam Allen Rd.

2-WAY AADT TURNING MOVEMENTS IN YEAR ... 2005 ... 2-WAY AADT TURNING MOVEMENTS IN YEAR ... 2010

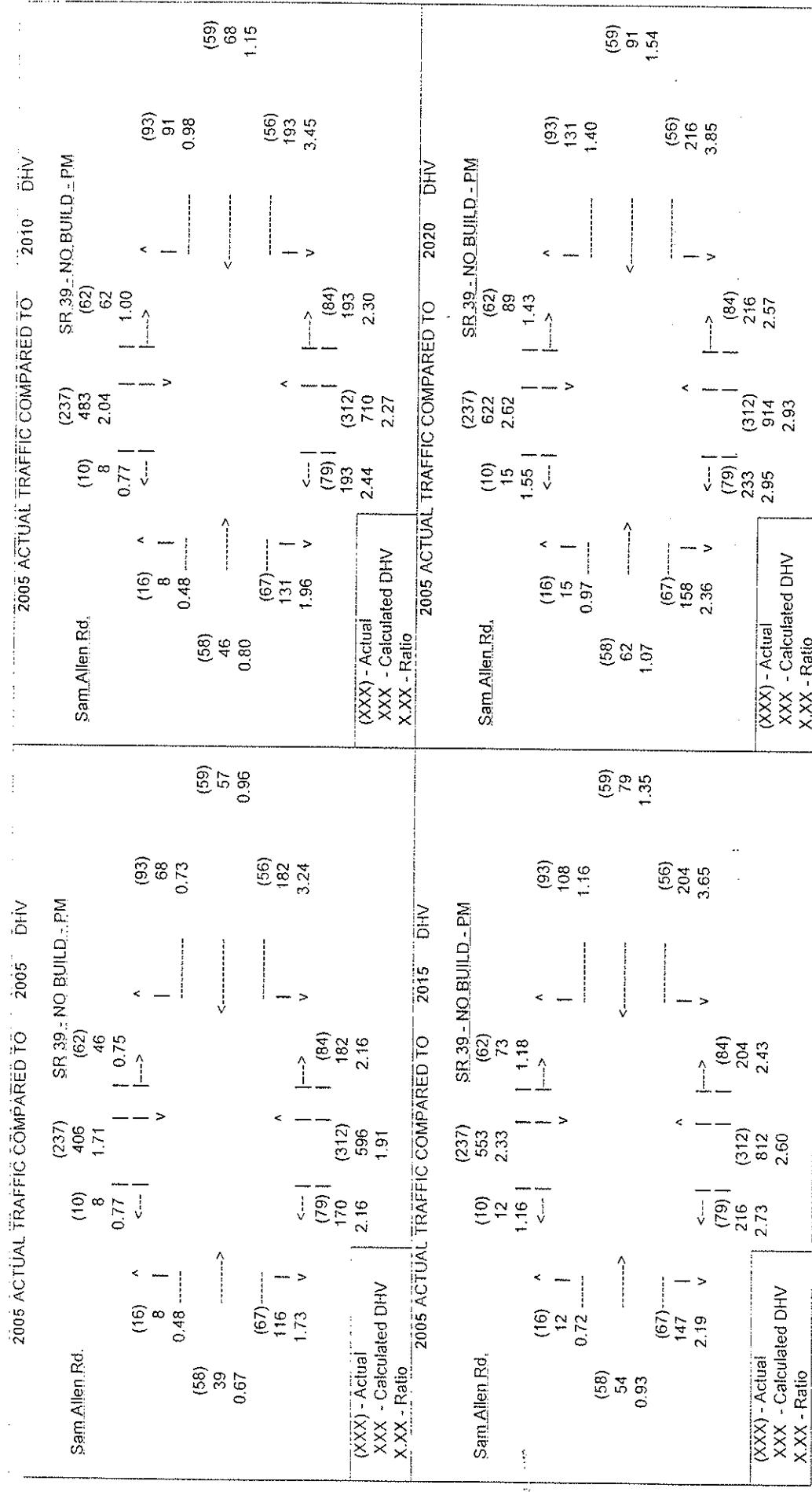
|               |       | SR 39 - NO BUILD - PM |        |       |       | SR 39 - NO BUILD - PM |         |        |        |
|---------------|-------|-----------------------|--------|-------|-------|-----------------------|---------|--------|--------|
|               |       | Sam Allen Rd.         |        |       |       | Sam Allen Rd.         |         |        |        |
|               |       | 95                    | 1%     | 90%   | 1%    | 95                    | 1%      | 90%    | 1%     |
| Sam Allen Rd. | 70    | 1%                    | 91%    | 8%    | 500   | 138                   | 200     | 6,400  | 14,300 |
|               | 102   | 200                   | 1      | 5,400 | 1,200 | 714                   |         |        | 7,200  |
| 5% <          | 500   |                       |        |       |       | 6% <->                | 600     | 1,200  | 9%     |
| 2,100         | 22% < | N/S                   | 1,000  | 500   |       | 2,400                 | 24%     | 600    | 660    |
| 3,100         | 73% < | 10,500                |        |       |       | 4,800                 | 71% <-> | N/S    | 923    |
| 1,534         | 3,000 | 1                     | 5,100  | 3,200 | 1,480 | 5,400                 |         | 12,500 |        |
| 1,508         | 18%   | v                     | v      | v     |       |                       | 1,692   | 3,400  | 30%    |
|               |       |                       | 12,400 | 1,719 |       |                       | 1,694   | 18%    | 3,100  |
|               |       |                       | 8,300  | 8,300 |       |                       | v       | 6,000  | 6,200  |
|               |       |                       |        |       |       |                       | v       | 19%    | 1,561  |
|               |       |                       |        |       |       |                       | v       | 3,400  | 1,861  |
|               |       |                       |        |       |       |                       | v       | 19,300 |        |
|               |       |                       |        |       |       |                       | v       | 9,600  |        |

|               |       | SR 39 - NO BUILD - PM |        |       |       | SR 39 - NO BUILD - PM |         |               |           |
|---------------|-------|-----------------------|--------|-------|-------|-----------------------|---------|---------------|-----------|
|               |       | Sam Allen Rd.         |        |       |       | Sam Allen Rd.         |         |               |           |
|               |       | 149                   | 2%     | 88%   | 2%    | 149                   | 2%      | 88%           | 2%        |
| Sam Allen Rd. | 120   | 1%                    | 89%    | 10%   | 805   | 1,101                 | 222     | 400           | 8,300     |
|               | 182   | 300                   | 1      | 7,300 | 1,900 |                       |         |               | 10% 970   |
| 6% <          | 700   |                       |        |       |       | 32%                   | 800     | 1,600         | 1,309     |
| 2,800         | 25% < | N/S                   | 1,400  | 700   | 3,400 | 3,100                 | 7% <->  | E/N           |           |
| 5,500         | 69% < | 14,300                |        |       | 6,900 | 6,000                 | 21%     | 800           | 34%       |
| 1,920         | 3,800 | 1                     | 7,000  | 3,600 | 1,597 |                       | 67% <-> | 16,100        | 21% 3,800 |
| 1,881         | 17%   | v                     | v      | v     |       |                       | 2,078   | 4,100         | 7,700     |
|               |       |                       | 21,700 | 2,002 |       |                       | 2,035   | 17%           | 44% 1,685 |
|               |       |                       | 10,900 |       |       |                       | v       | 65% 24,000    |           |
|               |       |                       |        |       |       |                       | v       | 18% 2,106     |           |
|               |       |                       |        |       |       |                       | v       | 24,000 12,000 |           |





PROJECT TRAFFIC FOR SR 39 - NO BUILD - PM @ Sam Allen Rd. Opening Day To 2010 (From 2005 Base)



# DATA INPUT

Date:

Analyst: PAP Date: 28-Nov-98

Highway: SR 39 - No-Build - AM  
 Intersection: Knights Griffin Rd.  
 Opening Day  
 From: 2010 (From 2005 Base)  
 To: Hillsborough

North/South Orientation of Mainline? Y

D Factors:  
 K Factors:  
 Mainline Sidestreet  
 9.54% 9.54%

D Factors:

a. Mainline  
 40.5% Northbound(NB)  
 59.5% Southbound(SB)  
 b. Sidestreet  
 40.5% Eastbound(EB)  
 59.5% Westbound(WB)

Do you have FSUTMS Model Year Traffic from which you would like to  
 interpolate/extrapolate for project years? (Y/N) Y

IF NO: Enter Year and Growth Rates from Base Year:  
 Year Rate

Base  
 Opening  
 Mid  
 Design

Enter Base Year AADTs for Volume Comparison:

(uses growth rates to calculate other project years)

From West: From East: From North: From South:  
 EB Approach WB Approach SB Approach NB Approach  
 2005 2,050 1,950 5,200 5,950  
 2010 2,333 2,233 6,217 7,100  
 2015 2,617 2,517 7,233 8,250  
 2020 2,900 2,800 8,250 9,400  
 23,350

| Year | EB Approach | WB Approach | SB Approach | NB Approach | TOTAL  |
|------|-------------|-------------|-------------|-------------|--------|
| 2005 | 2,050       | 1,950       | 5,200       | 5,950       | 15,150 |
| 2010 | 2,333       | 2,233       | 6,217       | 7,100       | 17,883 |
| 2015 | 2,617       | 2,517       | 7,233       | 8,250       | 20,617 |
| 2020 | 2,900       | 2,800       | 8,250       | 9,400       | 23,350 |

| Year | EB Approach | WB Approach | SB Approach | NB Approach | TOTAL  |
|------|-------------|-------------|-------------|-------------|--------|
| 2005 | 2,050       | 1,950       | 5,200       | 5,950       | 15,150 |
| 2010 | 2,333       | 2,233       | 6,217       | 7,100       | 17,883 |
| 2015 | 2,617       | 2,517       | 7,233       | 8,250       | 20,617 |
| 2020 | 2,900       | 2,800       | 8,250       | 9,400       | 23,350 |

| Year | EB Approach | WB Approach | SB Approach | NB Approach | TOTAL  |
|------|-------------|-------------|-------------|-------------|--------|
| 2005 | 2,050       | 1,950       | 5,200       | 5,950       | 15,150 |
| 2010 | 2,333       | 2,233       | 6,217       | 7,100       | 17,883 |
| 2015 | 2,617       | 2,517       | 7,233       | 8,250       | 20,617 |
| 2020 | 2,900       | 2,800       | 8,250       | 9,400       | 23,350 |

# DATA INPUT

Date:

28-Nov-98

Analyst: PAP

|                              |      |
|------------------------------|------|
| Enter Project & Model Years: |      |
| Base                         | 2005 |
| Opening                      | 2010 |
| Mid                          | 2015 |
| Design                       | 2020 |
| Model                        | 2020 |

Enter Base & Model Year AADTs for Interpolation:

|       | From West<br>(EB)Approach | From East<br>(WB)Approach | From South<br>(SB)Approach | TOTAL  |
|-------|---------------------------|---------------------------|----------------------------|--------|
| Base  | 4,100                     | 3,900                     | 11,900                     | 30,300 |
| Model | 2005                      | 10,400                    | 10,400                     | 46,700 |

AREA FOR CALCULATION : INTERPOLATION

| model - base: | 15 | 1700 | 1700  | 6100  | NB     |
|---------------|----|------|-------|-------|--------|
| diff of vols: |    | EB   | WB    | SB    |        |
| year          |    | 2005 | 4,100 | 3,900 | 11,900 |
|               |    | 2010 | 4,667 | 4,467 | 14,200 |
|               |    | 2015 | 5,233 | 5,033 | 16,500 |
|               |    | 2020 | 5,800 | 5,600 | 18,800 |

Enter "1st Guess" Turning  
Percentages for AADT Balancing:

|           |        |      |
|-----------|--------|------|
| (ER THRU) | W-to-E | 0.44 |
| (EB LT)   | W-to-N | 0.15 |
| (EB RT)   | W-to-S | 0.41 |

|           |        |      |
|-----------|--------|------|
| (WB THRU) | E-to-W | 0.51 |
| (WB RT)   | E-to-N | 0.30 |
| (WB LT)   | E-to-S | 0.19 |

|           |        |      |
|-----------|--------|------|
| (SB RT)   | N-to-W | 0.12 |
| (SB LT)   | N-to-E | 0.16 |
| (SB THRU) | N-to-S | 0.72 |

|           |        |      |
|-----------|--------|------|
| (NB LT)   | S-to-W | 0.28 |
| (NB RT)   | S-to-E | 0.11 |
| (NB THRU) | S-to-N | 0.61 |

Desired Closure: 0.010

Actual/Counted Traffic:

|      |    |
|------|----|
| 2005 | 63 |
|      | 21 |
|      | 58 |

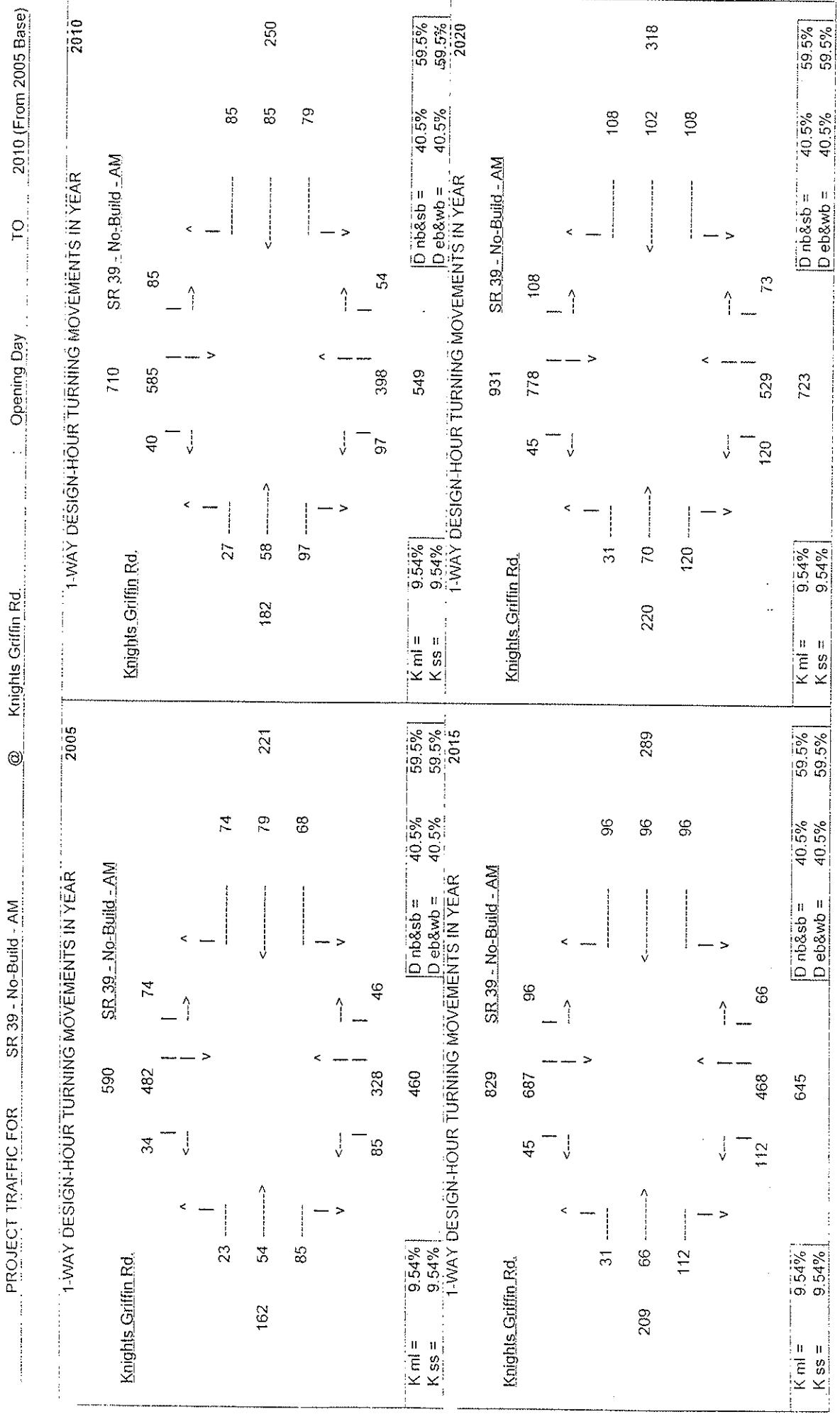
|        |     |
|--------|-----|
| E-to-W | 137 |
| E-to-N | 78  |
| E-to-S | 49  |

|        |     |
|--------|-----|
| N-to-W | 46  |
| N-to-E | 61  |
| N-to-S | 280 |

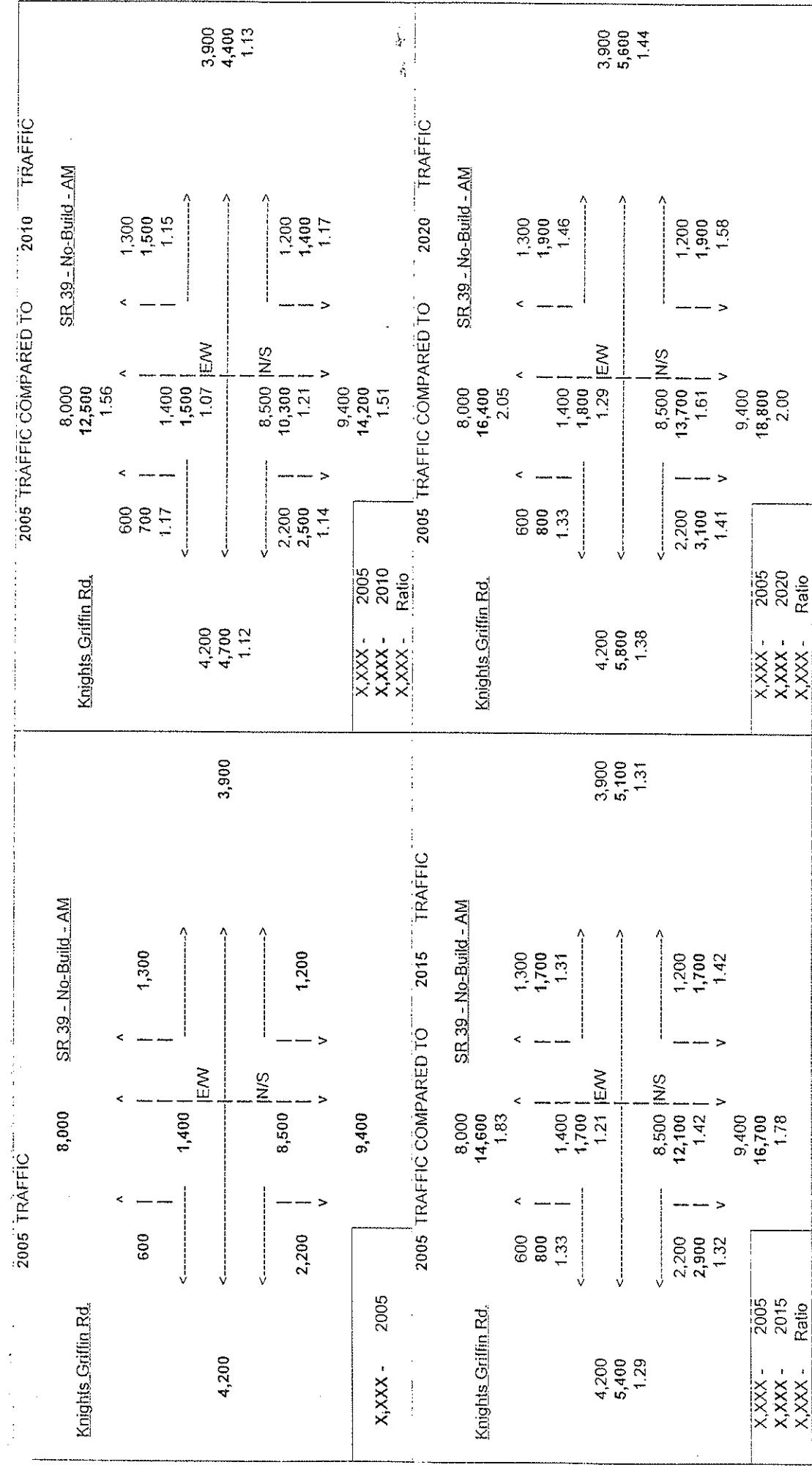
|        |     |
|--------|-----|
| S-to-W | 60  |
| S-to-E | 25  |
| S-to-N | 133 |

PROJECT TRAFFIC FOR SR 39 - No-Build - AM @ Knights Griffin Rd. Opening Day TO 2010 (From 2005 Base)

| 2-WAY AADT TURNING MOVEMENTS IN YEAR |                | 2005                  |             | 2010                |           | 2015                  |                 | 2020                  |                 |
|--------------------------------------|----------------|-----------------------|-------------|---------------------|-----------|-----------------------|-----------------|-----------------------|-----------------|
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |                | 2005                  |             | 2010                |           | 2015                  |                 | 2020                  |                 |
| Knights_Griffin_Rd.                  | 5,200<br>8,000 | SR 39 - No-Build - AM | 5,99<br>12% | Knights_Griffin_Rd. | 339<br>5% | SR 39 - No-Build - AM | 6,200<br>12,500 | SR 39 - No-Build - AM | 6,900<br>11%    |
| 299 6% ^                             | 4,300 ^        | ^                     | 712         | 322 700 ^           | ^         | 5,200 ^               | 1,500 ^         | 1,500 ^               | 791             |
| 293 600                              | 1,300          |                       | 700 >       | 14% < 800           | >         | 1,500                 | 700             | 700                   | 36%             |
| 14% < 700                            | 1,400          | ENW                   | 36% >       | 14% < 800           | EW        | 1,500                 | 700             | 700                   | 36%             |
| 2,100 35% < 4,200                    | N/S 8,500      | ----->                | 34% >       | 2,300 4,700         | N/S       | 10,300                | ----->          | 10,300                | 33% 2,200 4,400 |
| 1,080 2,200                          | 4,200          | 1,200                 | 30% >       | 52% < 1,203         | 1,400     | 5,200                 | 1,400           | 1,400                 | 31% 685         |
| 1,079 18% v                          | 9,400 v        | 5,900 v               | 637         | 1,276 18% v         | 14,200 v  | 7,200                 | 14,200 v        | 14,200 v              | 11% 765         |



PROJECT TRAFFIC FOR SR 39 No-Build AM @ Knights Griffin Rd. TO 2010 (From 2005 Base)



| PROJECT TRAFFIC FOR             |       | SR 39 - No-Build - AM |                       | SR 39 - No-Build - AM           |        | SR 39 - No-Build - AM           |                       |
|---------------------------------|-------|-----------------------|-----------------------|---------------------------------|--------|---------------------------------|-----------------------|
| 2005 ACTUAL TRAFFIC COMPARED TO |       | 2005 DHV              |                       | 2005 ACTUAL TRAFFIC COMPARED TO |        | 2005 ACTUAL TRAFFIC COMPARED TO |                       |
| Knights Griffin Rd,             |       | (280)                 |                       | Knights Griffin Rd,             |        | Knights Griffin Rd,             |                       |
| (46)                            | 482   | (280)                 | (280)                 | (46)                            | (280)  | (46)                            | (280)                 |
| 34                              | 1.72  | 482                   | 482                   | 40                              | 585    | 40                              | 585                   |
| (21)                            | 0.74  | 1.72                  | 1.72                  | 0.86                            | 2.09   | 0.86                            | 2.09                  |
| 23                              | <--   | --->                  | --->                  | <--                             | --->   | <--                             | --->                  |
| 1.10                            | ----- | v                     | v                     | v                               | v      | v                               | v                     |
| (63)                            | 54    | ----->                | ----->                | (21)                            | ^      | 27                              | ^                     |
| 0.86                            | (58)  | -----                 | -----                 | 27                              |        | 1.29                            |                       |
| 85                              | 1     | <--                   | --->                  | 1.29                            | -----> | ----->                          | ----->                |
| 1.47                            | v     | (60)                  | --->                  | (63)                            | 79     | 58                              | 85                    |
| (XXX) - Actual                  | 1.42  | (133)                 | --->                  | (137)                           | 79     | 58                              | 85                    |
| XXX - Calculated DHV            | 328   | 46                    | v                     | 0.58                            | 0.92   | 0.92                            | 0.92                  |
| X.XX - Ratio                    | 2.47  | 1.85                  | v                     | 0.58                            | 0.92   | 0.92                            | 0.92                  |
| 2005 ACTUAL TRAFFIC COMPARED TO |       | 2015 DHV              |                       | 2005 ACTUAL TRAFFIC COMPARED TO |        | 2020 DHV                        |                       |
| Knights Griffin Rd,             | (46)  | (280)                 | SR 39 - No-Build - AM | Knights Griffin Rd,             | (46)   | (280)                           | SR 39 - No-Build - AM |
| (45)                            | 687   | (280)                 | (61)                  | (45)                            | (280)  | (61)                            | (61)                  |
| 0.99                            | 2.45  | 687                   | 96                    | 45                              | 778    | 108                             | 108                   |
| (21)                            | ^     | 2.45                  | --->                  | 0.99                            | 2.78   | 1.77                            | 1.77                  |
| 31                              | <--   | v                     | --->                  | <--                             | --->   | <--                             | --->                  |
| 1.47                            | ----- | v                     | v                     | v                               | v      | v                               | v                     |
| (63)                            | 66    | ----->                | ----->                | (21)                            | ^      | 31                              | ^                     |
| 1.04                            | (58)  | -----                 | -----                 | 27                              |        | 1.47                            |                       |
| 112                             | 1     | <--                   | --->                  | 1.47                            | -----> | ----->                          | ----->                |
| 1.93                            | v     | (60)                  | --->                  | (63)                            | 96     | 70                              | 70                    |
| (XXX) - Actual                  | 1.87  | (133)                 | --->                  | (137)                           | 96     | 70                              | 70                    |
| XXX - Calculated DHV            | 3.52  | 66                    | v                     | 0.70                            | 1.10   | 0.70                            | 0.70                  |
| X.XX - Ratio                    | 2.63  | 2.63                  | v                     | 0.70                            | 1.10   | 0.70                            | 0.70                  |
| 2005 ACTUAL TRAFFIC COMPARED TO |       | 2015 DHV              |                       | 2005 ACTUAL TRAFFIC COMPARED TO |        | 2020 DHV                        |                       |
| Knights Griffin Rd,             | (46)  | (280)                 | SR 39 - No-Build - AM | Knights Griffin Rd,             | (46)   | (280)                           | SR 39 - No-Build - AM |
| (45)                            | 96    | (280)                 | (61)                  | (45)                            | (280)  | (61)                            | (61)                  |
| 0.99                            | 1.58  | 96                    | 96                    | 45                              | 778    | 108                             | 108                   |
| (21)                            | ^     | 1.58                  | --->                  | 0.99                            | 2.78   | 1.77                            | 1.77                  |
| 31                              | <--   | v                     | --->                  | <--                             | --->   | <--                             | --->                  |
| 1.47                            | ----- | v                     | v                     | v                               | v      | v                               | v                     |
| (63)                            | 66    | ----->                | ----->                | (21)                            | ^      | 31                              | ^                     |
| 1.04                            | (58)  | -----                 | -----                 | 27                              |        | 1.47                            |                       |
| 112                             | 1     | <--                   | --->                  | 1.47                            | -----> | ----->                          | ----->                |
| 1.93                            | v     | (60)                  | --->                  | (63)                            | 96     | 70                              | 70                    |
| (XXX) - Actual                  | 1.87  | (133)                 | --->                  | (137)                           | 96     | 70                              | 70                    |
| XXX - Calculated DHV            | 3.52  | 66                    | v                     | 0.70                            | 1.10   | 0.70                            | 0.70                  |
| X.XX - Ratio                    | 2.63  | 2.63                  | v                     | 0.70                            | 1.10   | 0.70                            | 0.70                  |

# DATA INPUT

Date:

PAP

30-Nov-98

|               |                       |
|---------------|-----------------------|
| Analyst:      | PAP                   |
| Highway:      | SR 39 - No-Build - PM |
| Intersection: | Knights Griffin Rd.   |
| From:         | Opening Day           |
| To:           | 2010 (From 2005 Base) |
| County:       | Hillsborough          |

North/South Orientation of Mainline?  
(Y/N)  
Y

| K Factors: |            | D Factors:   |               | A. Mainline |                |
|------------|------------|--------------|---------------|-------------|----------------|
| Mainline   | Sidestreet | Must Total 1 |               | 53.4%       | Northbound(NB) |
| 9.54%      |            | 9.54%        | b. Sidestreet | 40.5%       | Southbound(SB) |
|            |            |              | c. Eaststreet | 53.5%       | Eastbound(EB)  |
|            |            |              | d. Weststreet | 40.5%       | Westbound(WB)  |

Do you have FSUTMS Model Year Traffic from which you would like to

interpolate/extrapolate for project years? (Y/N)  
Y  
Manual Instr:  
If Y, go to A43  
If N, go to A44

IF NO: Enter Year and Growth Rates from Base Year:  
Year Rate  
Base  
Opening  
Mid  
Design

AREA FOR CALCULATIONS: 1/2 OF INPUT AADT

| Year | From West:  |             |             | From East:  |             |             | From North: |             |             | From South: |             |             | TOTAL       |             |             |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|      | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach |
| 2005 | 2,050       | 1,950       | 5,950       | 5,200       | 5,950       | 5,950       | 5,200       | 5,950       | 5,950       | 5,200       | 5,950       | 5,950       | 5,200       | 5,950       | 5,950       |
| 2010 | 2,333       | 2,233       | 6,217       | 6,217       | 7,100       | 7,100       | 6,217       | 7,100       | 7,100       | 6,217       | 7,100       | 7,100       | 6,217       | 7,100       | 7,100       |
| 2015 | 2,617       | 2,517       | 7,233       | 7,233       | 8,250       | 8,250       | 7,233       | 8,250       | 8,250       | 7,233       | 8,250       | 8,250       | 7,233       | 8,250       | 8,250       |
| 2020 | 2,900       | 2,800       | 8,250       | 8,250       | 9,400       | 9,400       | 8,250       | 9,400       | 9,400       | 8,250       | 9,400       | 9,400       | 8,250       | 9,400       | 9,400       |

Enter Base Year AADTs for Volume Comparison:

(uses growth rates to calculate other project years)

| Year | From West:  |             |             | To East:   |            |            | To North:  |            |            | To South:  |            |            | TOTAL      |            |            |
|------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|      | EB Approach | WB Approach | SB Approach | wbApproach | ebApproach | nbApproach | sbApproach | nbApproach | sbApproach | ebApproach | nbApproach | sbApproach | ebApproach | nbApproach | sbApproach |
| 2005 | 0           | 2,050       | 1,950       | 0          | 2,050      | 1,950      | 0          | 2,050      | 1,950      | 0          | 2,050      | 1,950      | 0          | 2,050      | 1,950      |
| 2010 | 0           | 2,333       | 2,233       | 0          | 2,333      | 2,233      | 0          | 2,333      | 2,233      | 0          | 2,333      | 2,233      | 0          | 2,333      | 2,233      |
| 2015 | 0           | 2,617       | 2,517       | 0          | 2,617      | 2,517      | 0          | 2,617      | 2,517      | 0          | 2,617      | 2,517      | 0          | 2,617      | 2,517      |
| 2020 | 0           | 2,900       | 2,800       | 0          | 2,900      | 2,800      | 0          | 2,900      | 2,800      | 0          | 2,900      | 2,800      | 0          | 2,900      | 2,800      |

# DATA INPUT

Analyst: PAP

Date: 30-Nov-98

IF YES: Enter Project & Model Years:

|         |      |
|---------|------|
| Base    | 2005 |
| Opening | 2010 |
| Mid     | 2015 |
| Design  | 2020 |
| Model   | 2020 |

## Enter Base & Model Year AADTs for Interpolation:

| Base  | From West     |               | From East     |               | From North    |               | From South    |               | TOTAL  | 2005 | 2010 | 2015 | 2020 |
|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|------|------|------|------|
|       | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach |        |      |      |      |      |
| 2005  | 4,100         | 3,900         | 10,400        | 11,900        |               |               |               |               | 30,300 |      |      |      |      |
| Model | 5,800         | 5,600         | 16,500        | 18,800        |               |               |               |               | 46,700 |      |      |      |      |

## AREA FOR CALCULATION : INTERPOLATION

| model - base: | 15    |
|---------------|-------|
| diff of vols: |       |
| year          |       |
| 2005          | 4,100 |
| 2010          | 4,667 |
| 2015          | 5,233 |
| 2020          | 5,800 |

## Enter "1st Guess" Turning

### Percentages for AADT Balancing:

|           |      |
|-----------|------|
| (EB THRU) | 0.14 |
| (EB LT)   | 0.61 |
| (EB RT)   | 0.25 |
| (WB THRU) | 0.42 |
| (WB RT)   | 0.41 |
| (WB LT)   | 0.17 |
| (SB RT)   | 0.08 |
| (SB LT)   | 0.27 |
| (SB THRU) | 0.65 |
| (NB LT)   | 0.14 |
| (NB RT)   | 0.15 |
| (NB THRU) | 0.71 |

### Actual/Counted Traffic:

|      |     |
|------|-----|
| 2005 | 135 |
|      | 31  |
|      | 54  |

|        |    |
|--------|----|
| E-to-W | 98 |
| E-to-N | 94 |
| E-to-S | 38 |

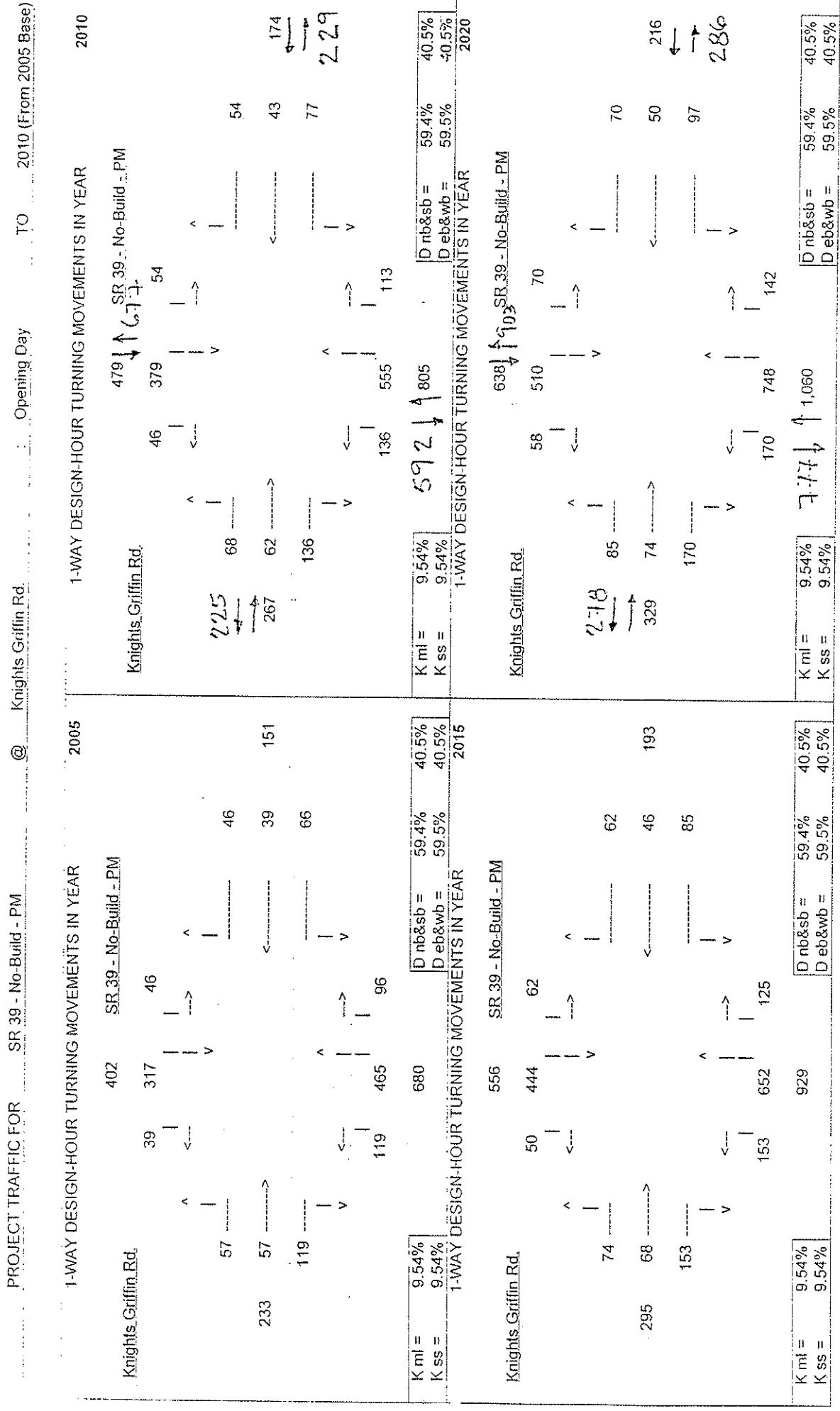
|        |     |
|--------|-----|
| N-to-W | 20  |
| N-to-E | 70  |
| N-to-S | 168 |

|        |     |
|--------|-----|
| S-to-W | 57  |
| S-to-E | 63  |
| S-to-N | 287 |

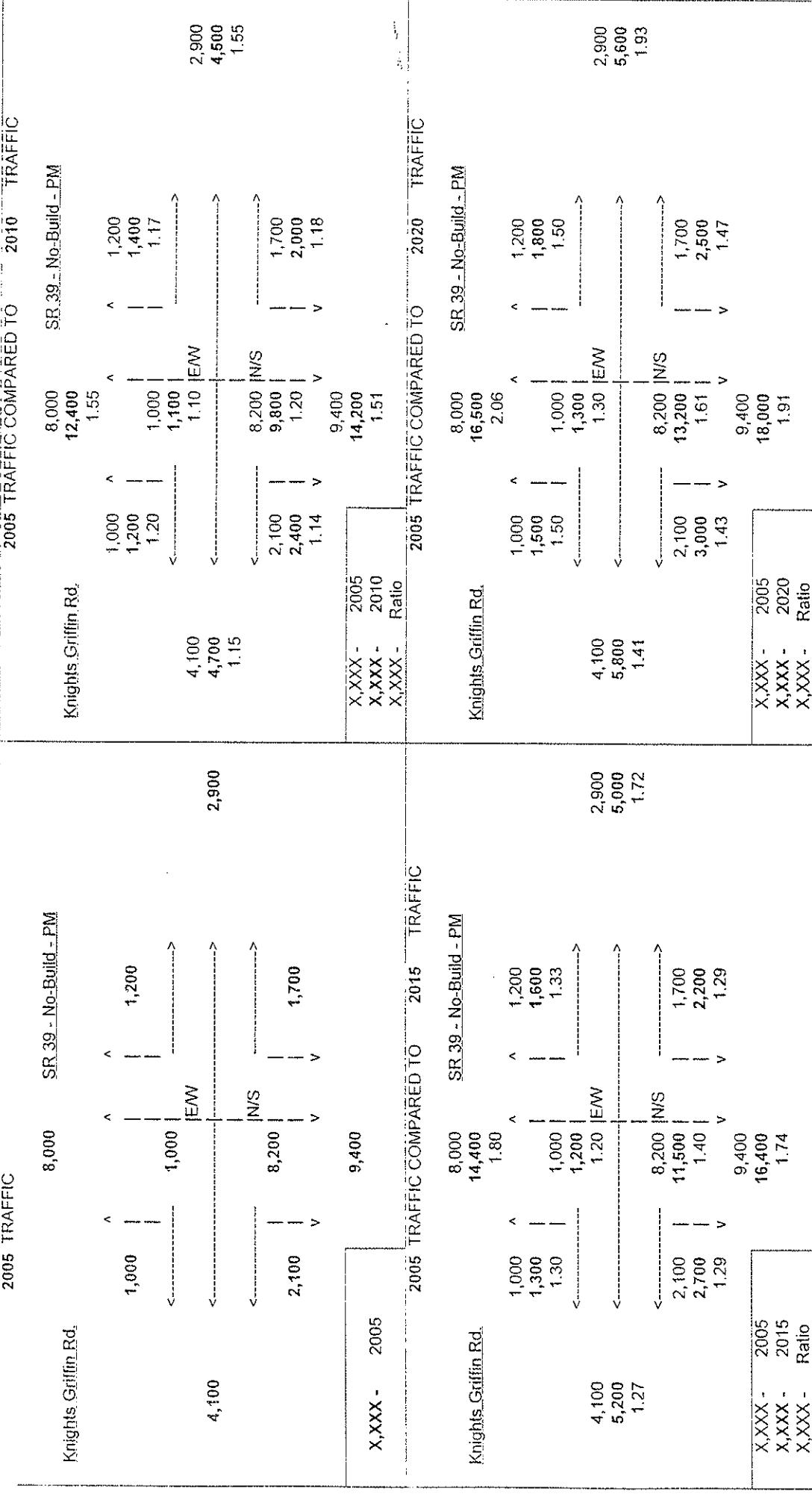
Desired Closure: 0.010

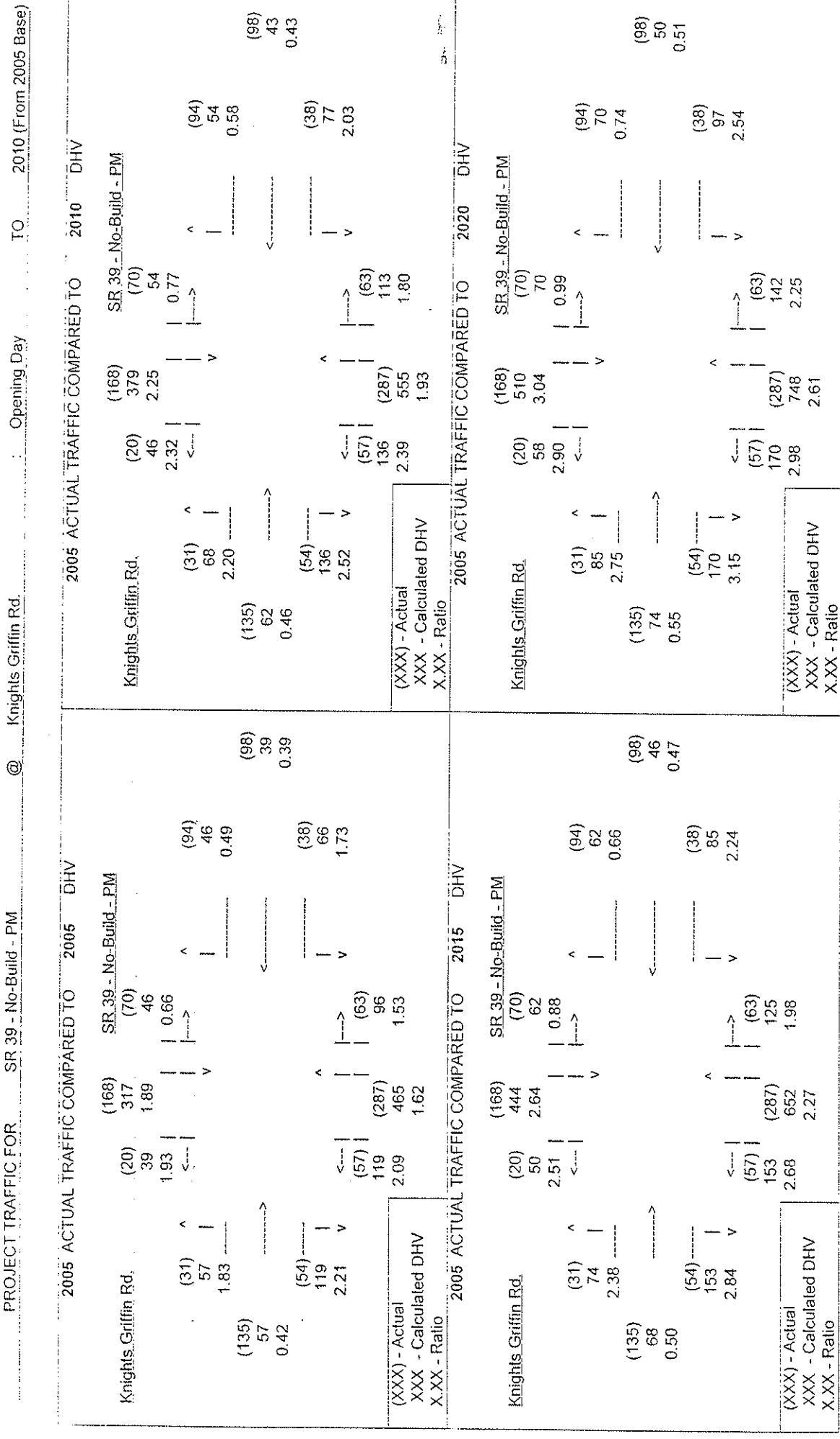
PROJECT TRAFFIC FOR      SR 39 - No-Build - PM      @      Knights Griffin Rd.      : Opening Day      : TO      2010 (From 2005 Base)

| 2-WAY AADT TURNING MOVEMENTS IN YEAR |       |        |        |        |                       |     |       |       |  | 2-WAY AADT TURNING MOVEMENTS IN YEAR |          |       |       |        |                       |        |        |       |       |       |
|--------------------------------------|-------|--------|--------|--------|-----------------------|-----|-------|-------|--|--------------------------------------|----------|-------|-------|--------|-----------------------|--------|--------|-------|-------|-------|
| 2005                                 |       |        |        |        | SR 39 - No-Build - PM |     |       |       |  | 2010                                 |          |       |       |        | SR 39 - No-Build - PM |        |        |       |       |       |
| Knights Griffin Rd.                  | 5,200 | 8,900  | 8,900  | 5%     | 82%                   | 14% | 708   |       |  | Knights Griffin Rd.                  | 269      | 4%    | 83%   | ^      | 13%                   | 6,200  | 12,400 | 807   |       |       |
| 236                                  | A     | A      | A      | A      | A                     | A   | 1,200 | 539   |  | 901                                  | 1,200    | A     | 5,100 | A      | A                     | 1,400  | 1,400  | 601   |       |       |
| 783                                  | 1,000 |        |        |        |                       |     | 800   |       |  |                                      | 39% <--> | 200   | E/W   | 1,100  | -                     | 800    | -      | 27%   |       |       |
| 2,000                                | 11%   | <-->   | 200    | 1,000  |                       |     |       |       |  |                                      | 38% <--> | 2,300 | 11%   | N/S    | 9,800                 | -      | 800    | -     | 37%   | 2,200 |
| 4,100                                | 50%   | <-->   |        |        | N/S                   |     |       |       |  |                                      | 35% <--> | 4,700 | 50%   |        |                       |        |        |       |       | 4,500 |
| 994                                  | 2,100 | V      | V      | 3,900  | V                     | V   | 1,700 | 692   |  | 1,154                                | 2,400    | V     | 4,700 | V      | V                     | 2,000  | 2,000  | 779   |       |       |
| 1,073                                | 18%   | V      | V      | 65%    | V                     | V   | 17%   | 1,022 |  |                                      | 1,232    | 17%   | V     | 14,200 | V                     | V      | 1,175  | 1,175 |       |       |
|                                      |       |        |        | 9,400  |                       |     | 6,000 |       |  |                                      |          |       |       |        |                       | 7,100  |        |       |       |       |
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |       |        |        |        |                       |     |       |       |  | 2-WAY AADT TURNING MOVEMENTS IN YEAR |          |       |       |        |                       |        |        |       |       |       |
| 2015                                 |       |        |        |        | SR 39 - No-Build - PM |     |       |       |  | 2020                                 |          |       |       |        | SR 39 - No-Build - PM |        |        |       |       |       |
| Knights Griffin Rd.                  | 7,200 | 14,400 | 14,400 | 4%     | 83%                   | 13% | 907   |       |  | Knights Griffin Rd.                  | 334      | 4%    | 84%   | ^      | 12%                   | 8,200  | 16,500 | 1,005 |       |       |
| 301                                  | A     | A      | A      | A      | A                     | A   | 1,600 | 690   |  | 1,135                                | 1,500    | A     | 6,900 | A      | A                     | 1,800  | 1,800  | 778   |       |       |
| 1,018                                | 1,300 |        |        |        |                       |     | 900   |       |  |                                      | 39% <--> | 300   | E/W   | 1,300  | -                     | 1,000  | -      | 28%   |       |       |
| 2,600                                | 10%   | <-->   | 300    | 1,200  |                       |     |       |       |  |                                      | 36% <--> | 2,500 | 2,900 | 10%    | N/S                   | 13,200 | -      | 1,000 |       |       |
| 5,200                                | 51%   | <-->   |        |        | N/S                   |     |       |       |  |                                      | 36% <--> | 5,000 | 5,800 | 51%    |                       |        |        |       | 36%   | 2,800 |
| 1,314                                | 2,700 | V      | V      | 5,500  | V                     | V   | 2,200 | 901   |  |                                      |          |       |       |        |                       |        |        | 2,500 | 1,023 |       |
| 1,391                                | 17%   | V      | V      | 67%    | V                     | V   | 16%   | 1,328 |  |                                      |          |       |       |        |                       |        |        | 1,497 |       |       |
|                                      |       |        |        | 16,400 |                       |     | 8,200 |       |  |                                      |          |       |       |        |                       | 18,000 | 9,400  |       |       |       |



PROJECT TRAFFIC FOR @ Knights Griffin Rd. Opening Day TO 2010 (From 2005 Base)





**DATA INPUT**

Date:

PAP

28-Nov-98

Highway:  
Intersection:  
From:  
To:  
County:

**SR 39 - No-Build - AM**  
**Zephyrhills Bypass**  
**Opening Day**  
**2010 (From 2005 Base)**  
**Hillsborough**

North/South Orientation of Mainline?  
(Y/N)  
**Y**

D Factors:

a. Mainline

|              |                |
|--------------|----------------|
| <b>59.5%</b> | Northbound(NB) |
| <b>40.5%</b> | Southbound(SB) |
| <b>59.5%</b> | Eastbound(EB)  |
| <b>40.5%</b> | Westbound(WB)  |

b. Sidestreet

|              |              |
|--------------|--------------|
| <b>9.54%</b> | <b>9.54%</b> |
|--------------|--------------|

Do you have FSUTMS Model Year Traffic from which you would like to  
interpolate/extrapolate for project years? (Y/N)

Manual Instr:  
If Y, go to A43  
If N, go to A24

IF NO: Enter Year and Growth Rates from Base Year:  
Year Rate

| Base | Opening | Mid | Design |
|------|---------|-----|--------|
|      |         |     |        |
|      |         |     |        |
|      |         |     |        |
|      |         |     |        |

Enter Base Year AADTs for Volume Comparison:  
(uses growth rates to calculate other project years)

| From West: | From East:  | From North: | From South: | Total       |
|------------|-------------|-------------|-------------|-------------|
| Year       | EB Approach | WB Approach | SB Approach | NB Approach |
| 2005       | 0           | 0           | 0           | 0           |
| 2010       | 0           | 0           | 0           | 0           |
| 2015       | 0           | 0           | 0           | 0           |
| 2020       | 0           | 0           | 0           | 0           |

| RANGE NAMES FOR YEARS: |             |             |             |             |
|------------------------|-------------|-------------|-------------|-------------|
| Year                   | EB Approach | WB Approach | SB Approach | NB Approach |
| 2005                   | 1,300       | 950         | 5,250       | 5,750       |
| Open                   | 1,567       | 1,133       | 6,300       | 6,833       |
| Mid                    | 1,833       | 1,317       | 7,350       | 7,917       |
| Design                 | 2,100       | 1,500       | 8,400       | 9,000       |

**AREA FOR CALCULATIONS: 1/2 OF INPUT AADT**

| RANGE NAMES FOR YEARS: |             |             |             |             |
|------------------------|-------------|-------------|-------------|-------------|
| Year                   | EB Approach | WB Approach | SB Approach | NB Approach |
| 2005                   | 1,300       | 950         | 5,250       | 5,750       |
| 2010                   | 1,567       | 1,133       | 6,300       | 6,833       |
| 2015                   | 1,833       | 1,317       | 7,350       | 7,917       |
| 2020                   | 2,100       | 1,500       | 8,400       | 9,000       |

## DATA INPUT

Date:

Analyst:

PAP

28-Nov-98

If YES: Enter Project & Model Years:

|         |      |
|---------|------|
| Base    | 2005 |
| Opening | 2010 |
| Mid     | 2015 |
| Design  | 2020 |
| Model   | 2020 |

Enter Base & Model Year AADTs for Interpolation:

| Base  | (EB) Approach | From West | From East | From North | From South | (NB) Approach | TOTAL | 26,500 |
|-------|---------------|-----------|-----------|------------|------------|---------------|-------|--------|
|       |               |           |           |            |            |               |       |        |
| 2005  | (WB) Approach | 2,600     | 1,900     | 10,500     | 11,500     | (SB) Approach | 15    | 1600   |
|       |               |           |           |            |            |               |       |        |
| Model | (WB) Approach | 4,200     | 3,000     | 16,800     | 18,000     | (SB) Approach | 16    | 1100   |
|       |               |           |           |            |            |               |       |        |

## AREA FOR CALCULATION : INTERPOLATION

| model - base: | 15 | 1600  | 1100  | 6300  | NB     | 6500   |
|---------------|----|-------|-------|-------|--------|--------|
| diff of vols: |    |       |       |       |        |        |
| year          |    | EB    | WB    |       |        |        |
| 2005          |    | 2,600 | 1,900 | 1,900 | 10,500 | 11,500 |
| 2010          |    | 3,133 | 2,267 | 2,267 | 12,600 | 13,667 |
| 2015          |    | 3,667 | 2,633 | 2,633 | 14,700 | 15,833 |
| 2020          |    | 4,200 | 3,000 | 3,000 | 16,800 | 18,000 |

2005

Actual/Counted Traffic:

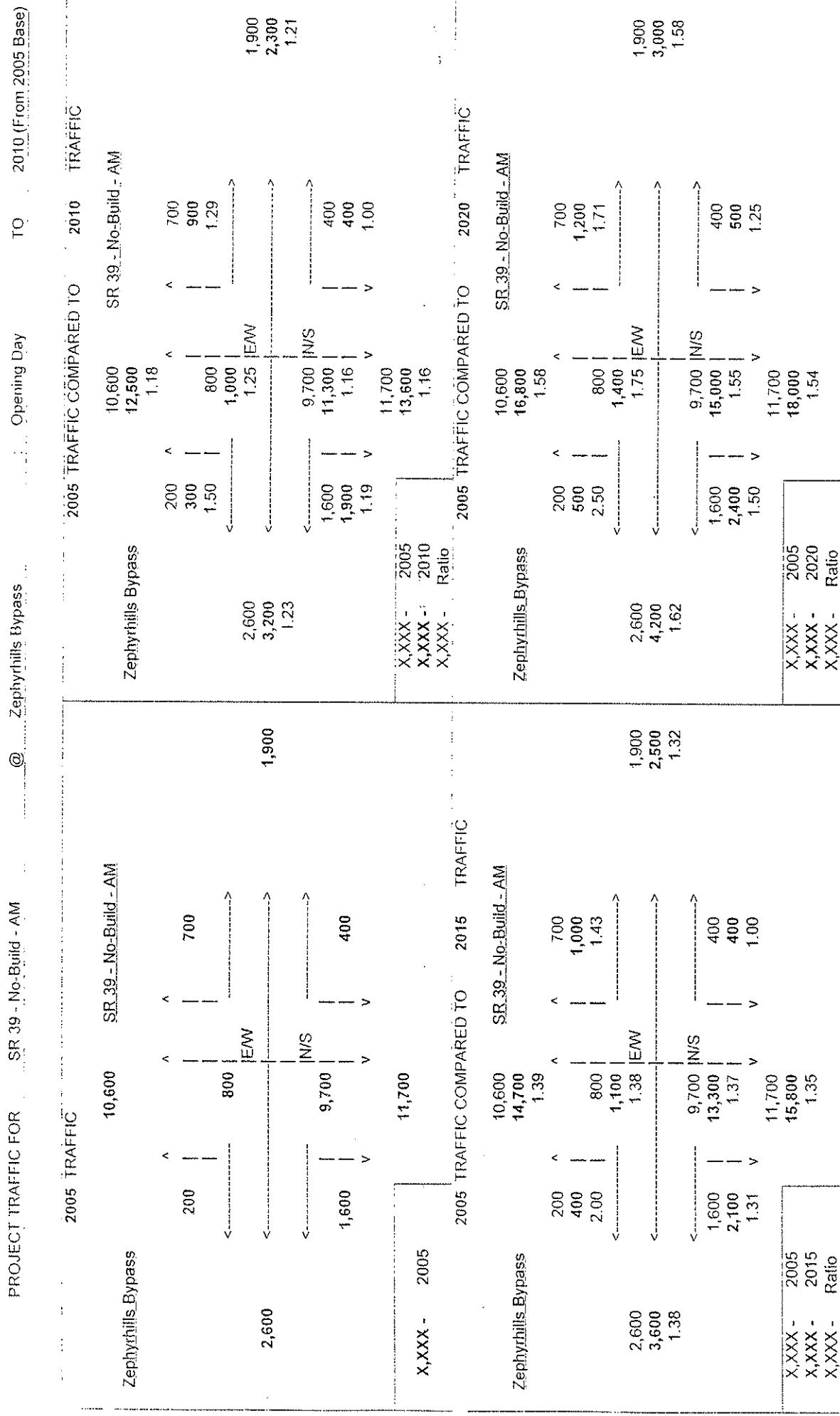
|        |     |
|--------|-----|
| W-to-E | 107 |
| W-to-N | 108 |
| W-to-S | 16  |
| E-to-W | 45  |
| E-to-N | 102 |
| E-to-S | 0   |
| N-to-W | 40  |
| N-to-E | 111 |
| N-to-S | 124 |
| S-to-W | 12  |
| S-to-E | 3   |
| S-to-N | 202 |

Desired Closure: 0.010

PROJECT TRAFFIC FOR..... SR 39 - No-Build - AM @..... Zephyrhills Bypass..... Opening Day..... TO..... 2010 (From 2005 Base)

| 2-WAY AADT TURNING MOVEMENTS IN YEAR |       |                       |                    |        |                       |                    |        |                       |                    | 2-WAY AADT TURNING MOVEMENTS IN YEAR |                       |                    |       |                       |                    |        |                       |                    |        |                       |       |
|--------------------------------------|-------|-----------------------|--------------------|--------|-----------------------|--------------------|--------|-----------------------|--------------------|--------------------------------------|-----------------------|--------------------|-------|-----------------------|--------------------|--------|-----------------------|--------------------|--------|-----------------------|-------|
| 2005                                 |       |                       |                    |        | 2010                  |                    |        |                       |                    | 2005                                 |                       |                    |       |                       | 2010               |        |                       |                    |        |                       |       |
|                                      |       |                       |                    |        |                       |                    |        |                       |                    |                                      |                       |                    |       |                       |                    |        |                       |                    |        |                       |       |
| Zephyrhills Bypass                   | 5,300 | SR 39 - No-Build - AM | Zephyrhills Bypass | 6,200  | SR 39 - No-Build - AM | Zephyrhills Bypass | 12,500 | SR 39 - No-Build - AM | Zephyrhills Bypass | 5,300                                | SR 39 - No-Build - AM | Zephyrhills Bypass | 6,200 | SR 39 - No-Build - AM | Zephyrhills Bypass | 16,800 | SR 39 - No-Build - AM | Zephyrhills Bypass | 8,400  | SR 39 - No-Build - AM |       |
| 104                                  | 2%    | A                     | 10,600             | 91%    | A                     | 7%                 | 361    | A                     | 137                | 2%                                   | A                     | 91%                | A     | 7%                    | 433                | A      | 214                   | 3%                 | 272    | 3%                    | 214   |
| 126                                  | 200   |                       | 4,800              | A      |                       | A                  | 700    | A                     | 173                | 300                                  |                       | 5,600              |       | A                     | 900                |        | 500                   |                    | 7,600  |                       | 1,200 |
| 10% <                                | 400   |                       | 800                | E/W    |                       | 400                | >      | 37%                   | 1,600              | 32%                                  | <                     | 500                | E/N   | 1,000                 | N/S                | 11,300 | >                     | 500                | >      | 1,000                 | >     |
| 1,300                                | 32% < | 2,600                 | N/S                | 9,700  |                       | 1,900              | >      | 42%                   | 3,200              | 57%                                  | <                     | 900                | N/S   | 1,000                 | 1,100              | 2,300  | >                     | 43%                | >      | 43%                   | >     |
| 756                                  | 1,600 |                       | 4,800              | V      |                       | 400                | V      | 194                   | 910                | 1,900                                | V                     | 5,700              | V     | 400                   | 1,100              | 2,300  | V                     | 400                | V      | 214                   | V     |
| 808                                  | 14%   | V                     | 11,700             | 83%    | V                     | 3%                 | 176    | V                     | 942                | 14%                                  | V                     | 83%                | V     | 3%                    | 186                | 13,600 | 6,800                 | V                  | 13,600 | V                     | 214   |
|                                      |       |                       | 5,800              |        |                       |                    |        |                       |                    |                                      |                       |                    |       |                       |                    |        |                       |                    |        |                       |       |
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |       |                       |                    |        |                       |                    |        |                       |                    | 2-WAY AADT TURNING MOVEMENTS IN YEAR |                       |                    |       |                       |                    |        |                       |                    |        |                       |       |
| 2015                                 |       |                       |                    |        | 2020                  |                    |        |                       |                    |                                      |                       |                    |       |                       |                    |        |                       |                    |        |                       |       |
| Zephyrhills Bypass                   | 7,400 | SR 39 - No-Build - AM | Zephyrhills Bypass | 214    | SR 39 - No-Build - AM | Zephyrhills Bypass | 214    | SR 39 - No-Build - AM | Zephyrhills Bypass | 272                                  | 500                   | 7,600              | A     | 7%                    | 602                | A      | 214                   | 3%                 | 272    | 500                   | 214   |
| 177                                  | 2%    | A                     | 14,700             | 91%    | A                     | 7%                 | 525    | A                     | 214                | 3%                                   | A                     | 90%                | A     | 7%                    | 602                | A      | 214                   | 3%                 | 272    | 500                   | 214   |
| 210                                  | 400   |                       | 6,700              | A      |                       | A                  | 1,000  | 505                   | 2,200              | 32%                                  | <                     | 700                | E/N   | 1,400                 | N/S                | 15,000 | >                     | 700                | >      | 1,200                 | >     |
| 12% <                                | 600   |                       | 1,100              | E/W    |                       | 600                | >      | 39%                   | 4,200              | 55%                                  | <                     | 1,300              | N/S   | 1,400                 | 1,600              | 3,000  | >                     | 700                | >      | 1,200                 | >     |
| 1,800                                | 32% < | 3,600                 | N/S                | 13,300 |                       | 400                | V      | 235                   | 1,215              | 2,400                                | V                     | 7,500              | V     | 500                   | 1,600              | 3,000  | V                     | 500                | V      | 274                   | V     |
| 1,007                                | 2,100 |                       | 6,600              | V      |                       | 400                | V      | 202                   | 1,221              | 2,400                                | V                     | 84%                | V     | 2%                    | 215                | 18,000 | 8,900                 | V                  | 18,000 | V                     | 215   |
| 1,088                                | 14%   | V                     | 15,800             | 84%    | V                     | 3%                 | 202    | V                     |                    |                                      |                       |                    |       |                       |                    |        |                       |                    |        |                       |       |

| PROJECT TRAFFIC FOR                         | SR 39 - No-Build - AM | @ Zephyrhills Bypass  | Opening Day             | TO             | 2010 (From 2005 Base) |
|---|-----------------------|-----------------------|-------------------------|----------------|-----------------------|
| 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |                       |                       |                         |                |                       |
| 2005  | 410                   | SR.39 - No-Build - AM |                         |                |                       |
| Zephyrhills Bypass                          | 8                     | 375                   | 27                      | 483            | SR.39 - No-Build - AM |
|   | ^   <--   v           | -->   ^               | 12   <--   v            | 437   -->   ^  | 35                    |
|   | 11                    |                       | 27                      | 17             | 35                    |
| 148   45                                    |                       | <---->                | 34   73                 | 182   57       | <----->               |
| 91  |                       |                       | 15                      | 108            | 15                    |
| K <sub>mi</sub> = 9.54%                     | 664                   | Dnb&sb = 59.5%        | K <sub>ml</sub> = 9.54% | Dnb&sb = 59.5% | Dnb&sb = 59.5%        |
| K <sub>ss</sub> = 9.54%                     |                       | Deb&wb = 40.5%        | K <sub>ss</sub> = 9.54% | Deb&wb = 40.5% | Deb&wb = 40.5%        |
| 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |                       | 2015                  |                         | 2020           |                       |
| 2005  | 568                   | SR.39 - No-Build - AM |                         |                |                       |
| Zephyrhills Bypass                          | 15                    | 514                   | 39                      | 645            | SR.39 - No-Build - AM |
|   | ^   <--   v           | -->   ^               | 19   <--   v            | 580   -->   ^  | 46                    |
|   | 23                    |                       | 39                      | 28             | 46                    |
| 204   62                                    |                       | <---->                | 43   97                 | 244   79       | <----->               |
| 119   |                       |                       | 15                      | 136            | 19                    |
| K <sub>mi</sub> = 9.54%                     | 897                   | Dnb&sb = 59.5%        | K <sub>ml</sub> = 9.54% | Dnb&sb = 59.5% | Dnb&sb = 59.5%        |
| K <sub>ss</sub> = 9.54%                     |                       | Deb&wb = 40.5%        | K <sub>ss</sub> = 9.54% | Deb&wb = 40.5% | Deb&wb = 40.5%        |
| 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |                       | 2015                  |                         | 2020           |                       |



## PROJECT TRAFFIC FOR

SR 39 - No-Build - AM @ Zephyrhills Bypass Opening Day TO 2010 (From 2005 Base)

| 2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             | 2005 ACTUAL TRAFFIC COMPARED TO 2010 DHV |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|--|
| SR 39 - No-Build - AM                    |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             | SR 39 - No-Build - AM                    |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| Zephyrhills Bypass                       |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             | Zephyrhills Bypass                       |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| (124) SR 39 - No-Build - AM              |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             | (124) SR 39 - No-Build - AM              |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| (40) 8                                   | 375                         | (111)                       | Zephyrhills Bypass          | (40) 12                     | 437                         | (111)                       | Zephyrhills Bypass          | (40) 12                     | 437                         | (111)                       | Zephyrhills Bypass          | (40) 12                                  | 437                         | (111)                       | Zephyrhills Bypass          | (40) 12                     | 437                         | (111)                       | Zephyrhills Bypass          | (40) 12                     | 437                         | (111)                       | Zephyrhills Bypass          |       |  |
| 0.19                                     | 3.02                        | 27                          | ^                           | 0.24                        | 3.52                        | 35                          | ^                           | 0.29                        | 3.52                        | 35                          | ^                           | 0.31                                     | 35                          | ^                           | 0.31                        | 35                          | 35                          | ^                           | 0.31                        | 35                          | 35                          | ^                           | 0.31                        |       |  |
| (108) ^                                  | <--                         | v                           | -->                         | ^                           | -->                         | v                           | ^                           | -->                         | v                           | v                           | ^                           | -->                                      | v                           | v                           | ^                           | -->                         | v                           | v                           | ^                           | -->                         | v                           | v                           | ^                           | -->   |  |
| 11                                       | 11                          |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |  |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| 0.11                                     | 0.11                        |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |  |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| (107) 45                                 | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                                       | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45                          | 45    |  |
| 0.42                                     | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                                     | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)  |  |
| 91                                       | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                                       | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91                          | 91    |  |
| 5.68                                     | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v  | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v     |  |
| (XXX) - Actual                           | 7.57                        | 5.51                        | 2.73                        | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                                    | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202) |  |
| XXX - Calculated DHV                     |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |  |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| X.XX - Ratio                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |  |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| 2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| (124) SR 39 - No-Build - AM              | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM              | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM | (124) SR 39 - No-Build - AM |       |  |
| (40) 15                                  | 514                         | (111)                       | Zephyrhills Bypass          | (40) 19                     | 580                         | (111)                       | Zephyrhills Bypass          | (40) 19                     | 580                         | (111)                       | Zephyrhills Bypass          | (40) 19                                  | 580                         | (111)                       | Zephyrhills Bypass          | (40) 19                     | 580                         | (111)                       | Zephyrhills Bypass          | (40) 19                     | 580                         | (111)                       | Zephyrhills Bypass          |       |  |
| 0.39                                     | 4.14                        | 39                          | ^                           | 0.35                        | 4.67                        | 46                          | ^                           | 0.48                        | 4.67                        | 46                          | ^                           | 0.42                                     | 46                          | ^                           | 0.42                        | 46                          | 46                          | ^                           | 0.42                        | 46                          | 46                          | ^                           | 0.42                        |       |  |
| (108) ^                                  | <--                         | v                           | -->                         | ^                           | -->                         | v                           | ^                           | -->                         | v                           | v                           | ^                           | -->                                      | v                           | v                           | ^                           | -->                         | v                           | v                           | ^                           | -->                         | v                           | v                           | ^                           | -->   |  |
| 23                                       | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                                       | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23                          | 23    |  |
| 0.21                                     | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                                     | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        | 0.21                        |       |  |
| (107) 62                                 | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                                       | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62                          | 62    |  |
| 0.58                                     | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                                     | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)                        | (16)  |  |
| 119                                      | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                                      | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119                         | 119   |  |
| 7.45                                     | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v  | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v                           | v     |  |
| (XXX) - Actual                           | 9.93                        | 7.55                        | 3.74                        | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                                    | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202)                       | (202) |  |
| XXX - Calculated DHV                     |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |  |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |
| X.XX - Ratio                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |  |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |       |  |

DATA INPUT

Date:

 PAP

28-Nov-98

|               |                       |  |  |
|---------------|-----------------------|--|--|
| Highway:      | SR 39 - No-Build - PM |  |  |
| Intersection: | Zephyrhills Bypass    |  |  |
| From:         | Opening Day           |  |  |
| To:           | 2010 (From 2005 Base) |  |  |
| County:       | Pasco                 |  |  |

North/South Orientation of Mainline?  
(Y/N)  Y

D Factors:

Mainline

Sidestreet

9.54%

9.54%

a. Mainline

59.5%

Northbound(NB)

40.5%

Southbound(SB)

b. Sidestreet

59.5%

Eastbound(EB)

40.5%

Westbound(WB)

Do you have FSUTMS Model Year Traffic from which you would like to  
interpolate/extrapolate for project years? (Y/N)  Y

Manual Instr:

If Y, go to A43

If N, go to A24

Enter Year and Growth Rates from Base Year:

Year

Rate

Base

Opening

Mid

Design

Enter Base Year AADTs for Volume Comparison:  
(uses growth rates to calculate other project years)

| Year | From West: EB Approach | From East: WB Approach | From North: SB Approach | From South: NB Approach | To East: wbApproach | To West: ebApproach | To North: nbApproach | To South: sbApproach | TOTAL  |
|------|------------------------|------------------------|-------------------------|-------------------------|---------------------|---------------------|----------------------|----------------------|--------|
| 2005 | 0                      | 0                      | 0                       | 0                       | 950                 | 1,300               | 5,250                | 5,750                | 13,250 |
| 2010 | 0                      | 0                      | 0                       | 0                       | 1,133               | 1,567               | 6,300                | 6,833                | 15,833 |
| 2015 | 0                      | 0                      | 0                       | 0                       | 1,317               | 1,833               | 7,350                | 7,917                | 18,417 |
| 2020 | 0                      | 0                      | 0                       | 0                       | 1,500               | 2,100               | 8,400                | 9,000                | 21,000 |

| Year | From West: Base | From East: Open | From North: Mid | From South: Design | TOTAL  |
|------|-----------------|-----------------|-----------------|--------------------|--------|
| 2005 | 2005            | 2010            | 2015            | 2020               | 13,250 |
| 2010 | 2010            | 2015            | 2020            |                    | 15,833 |
| 2015 | 2015            | 2020            |                 |                    | 18,417 |
| 2020 | 2020            |                 |                 |                    | 21,000 |

# DATA INPUT

Date:

Analyst:

28-Nov-98

|         |                              |
|---------|------------------------------|
| IF YES: | Enter Project & Model Years: |
|         | Base      2005               |
|         | Opening      2010            |
|         | Mid      2015                |
|         | Design      2020             |
|         | Model      2020              |

### Enter Base & Model Year AADTs for Interpolation:

|      | From West     | From East     | From North    | From South    | (NB) Approach | TOTAL  |
|------|---------------|---------------|---------------|---------------|---------------|--------|
| Base | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach |               | 26,500 |
| 2005 | 2,600         | 1,900         | 10,500        | 11,500        |               | 26,500 |

| Model | 2020 | 4,200 | 3,000 | 16,800 | 18,000 | 42,000 |
|-------|------|-------|-------|--------|--------|--------|
|       |      |       |       |        |        |        |

### AREA FOR CALCULATION : INTERPOLATION

| model - base: | 15 | 1600  | 1100  | 6300   | 6500   |
|---------------|----|-------|-------|--------|--------|
| diff of yrs:  |    |       |       |        |        |
| year          |    | EB    | WB    | NB     |        |
| 2005          |    | 2,600 | 1,900 | 11,500 | 26,500 |
| 2010          |    | 3,133 | 2,267 | 12,600 | 31,667 |
| 2015          |    | 3,667 | 2,633 | 14,700 | 36,833 |
| 2020          |    | 4,200 | 3,000 | 16,800 | 42,000 |

Enter "1st Guess" Turning  
Percentages for AADT Balancing:

|           |        |      |        |      |
|-----------|--------|------|--------|------|
| (EB THRU) | W-to-E | 0.51 | W-to-E | 0.88 |
| (EB LT)   | W-to-N | 0.01 | W-to-N | 2    |
| (EB RT)   | W-to-S | 0.48 | W-to-S | 82   |
| (WB THRU) | E-to-W | 0.36 | E-to-W | 57   |
| (WB RT)   | E-to-N | 0.20 | E-to-N | 31   |
| (WB LT)   | E-to-S | 0.44 | E-to-S | 68   |
| (SB RT)   | N-to-W | 0.92 | N-to-W | 4    |
| (SB LT)   | N-to-E | 0.09 | N-to-E | 19   |
| (SB THRU) | N-to-S | 0.89 | N-to-S | 183  |
| (NB LT)   | S-to-W | 0.27 | S-to-W | 97   |
| (NB RT)   | S-to-E | 0.18 | S-to-E | 65   |
| (NB THRU) | S-to-N | 0.55 | S-to-N | 193  |

Desired Closure:

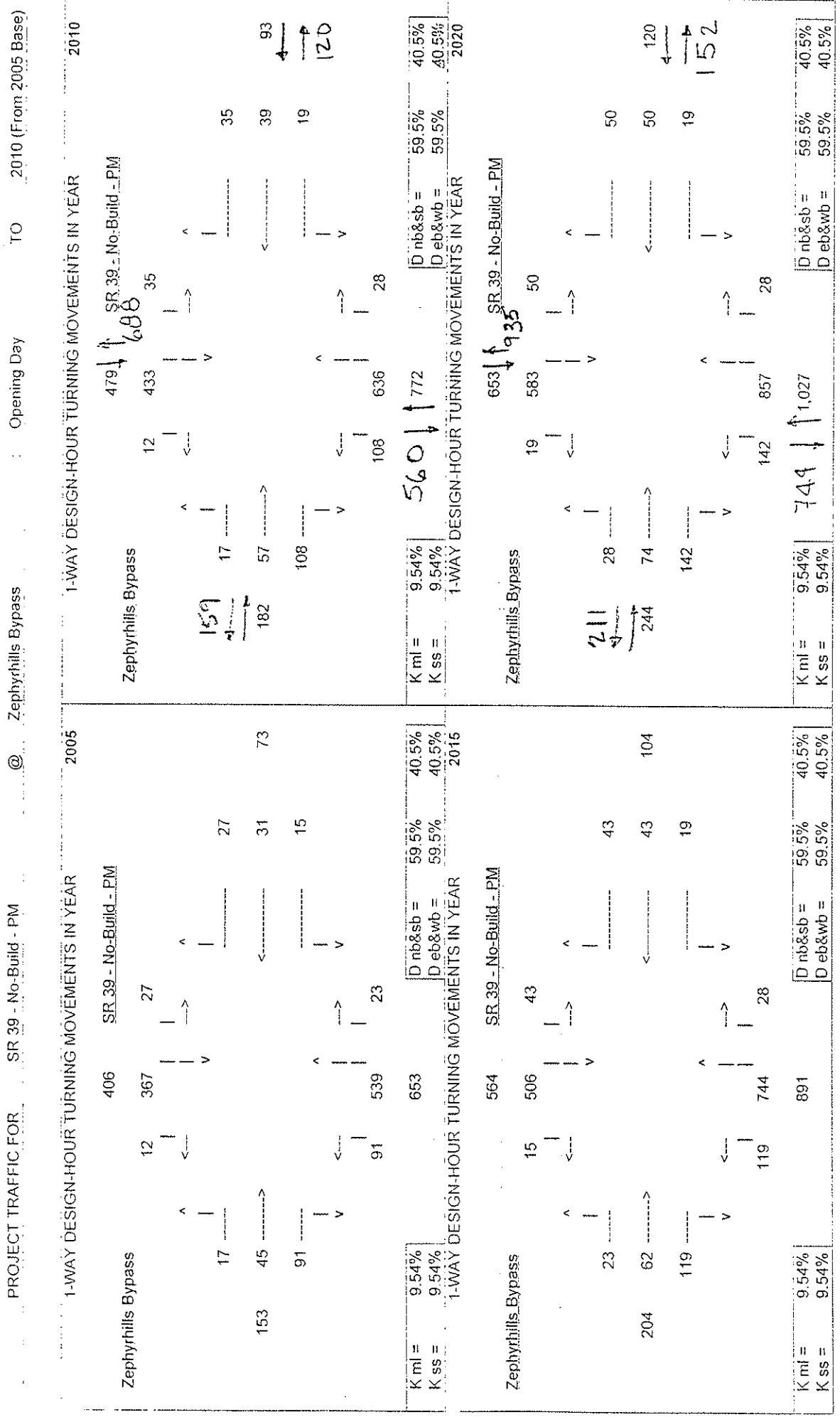
### Actual/Counted Traffic:

|      |        |  |
|------|--------|--|
| 2005 | W-to-E |  |
|      | W-to-N |  |
|      | W-to-S |  |
|      | E-to-W |  |
|      | E-to-N |  |
|      | E-to-S |  |
|      | N-to-W |  |
|      | N-to-E |  |
|      | N-to-S |  |
|      | S-to-W |  |
|      | S-to-E |  |
|      | S-to-N |  |

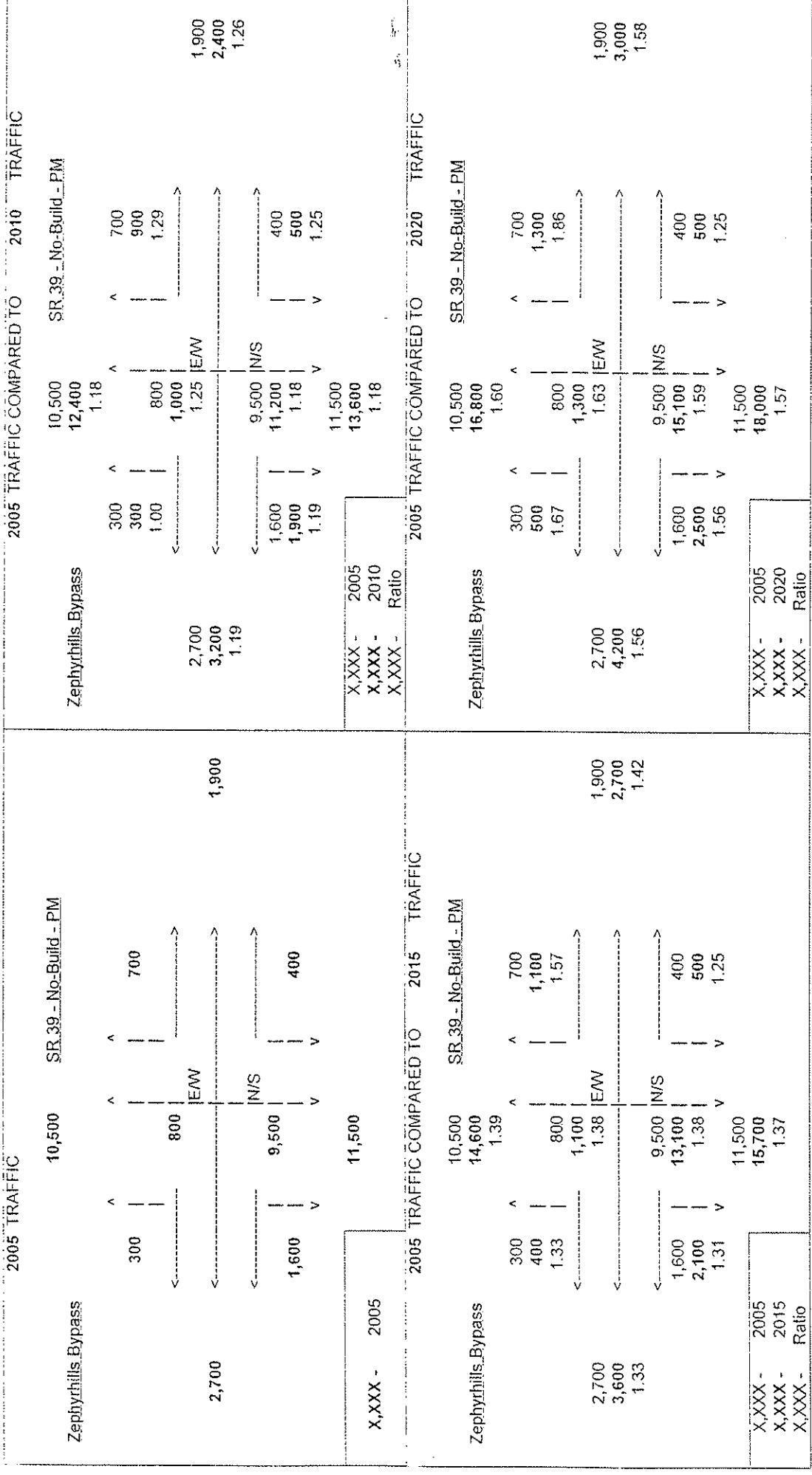
PROJECT TRAFFIC FOR SR 39 - No-Build - PM @ Zephyrhills Bypass Opening Day TO 2010 (From 2005 Base)

| 2-WAY AADT TURNING MOVEMENTS IN YEAR 2005 |                   |                   |         |            |                           |                |                         |                         |                   |
|---|-------------------|-------------------|---------|------------|---------------------------|----------------|-------------------------|-------------------------|-------------------|
| SR 39 - No-Build - PM                     |                   |                   |         |            | SR 39 - No-Build - PM     |                |                         |                         |                   |
| <b>Zephyrhills Bypass</b>                 |                   |                   |         |            | <b>Zephyrhills Bypass</b> |                |                         |                         |                   |
| 5,300<br>10,500                           |                   |                   |         |            | 236<br>12,400             |                |                         |                         |                   |
| 182<br>^                                  | 3%<br>^           | 91%<br>^          | 5%<br>^ | 287        | 101<br>^                  | 300<br>^       | 5,600<br>^              | 6%<br>^                 | 343               |
| 79<br>6% <                                | 300<br>500        | 4,800<br>800      | 1<br>   | 700<br>300 | 426<br>47%                | 1,600<br>3,200 | 1,000<br>600            | 1<br>                   | 900<br>400        |
| 1,400<br>2,700                            | 36% <             | N/S<br>9,500      | ----->  | 22%<br>400 | 30%<br>200                | 900<br>1,900   | 37%<br>57%              | ----->                  | 49%<br>400        |
| 813<br>823                                | 1,600<br>14%<br>V | 4,700<br>82%<br>V | 1<br>   | 200<br>V   | 913<br>971                | 1,900<br>V     | 5,600<br>833%<br>13,600 | N/S<br>11,200<br>13,600 | 31%<br>20%<br>242 |
|   |                   |                   |         |            |                           |                |                         |                         |                   |
|   |                   |                   |         |            |                           |                |                         |                         |                   |

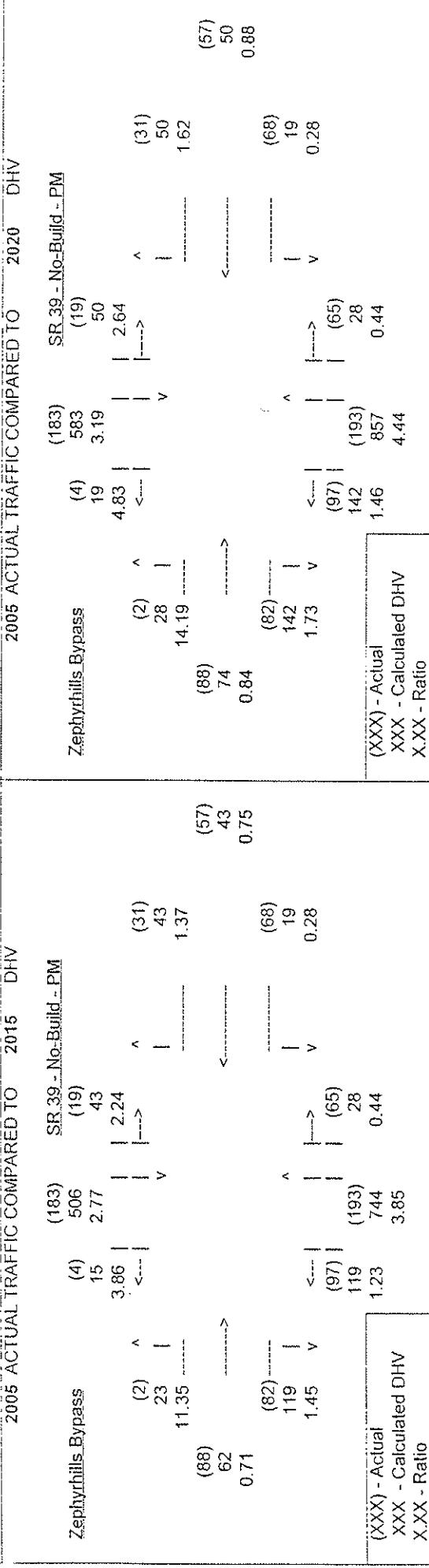
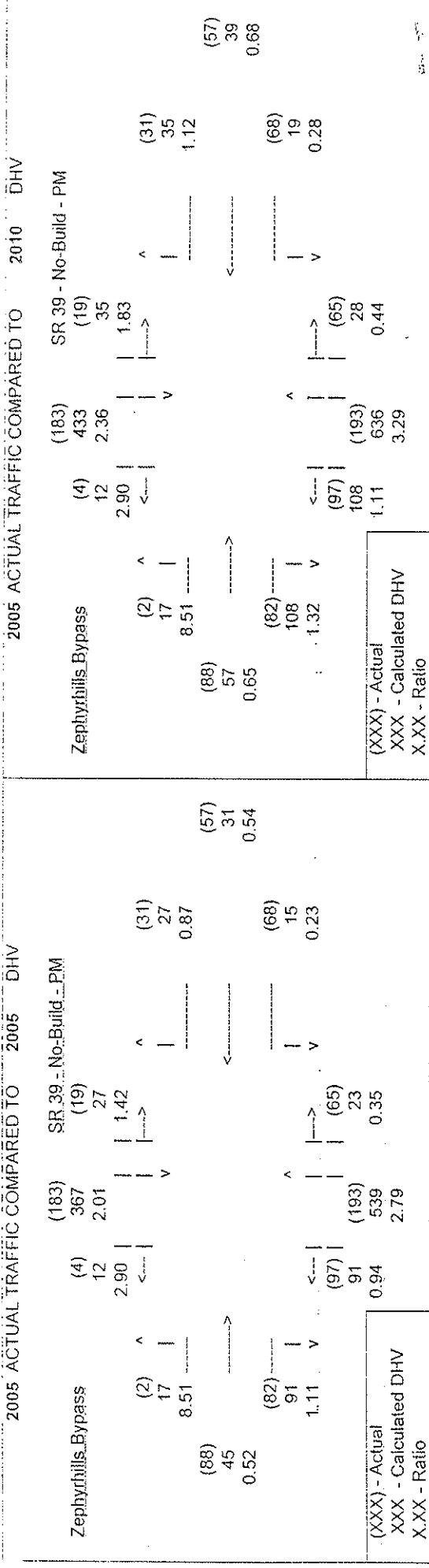
| 2-WAY AADT TURNING MOVEMENTS IN YEAR 2010 |                   |                      |        |              |                           |                      |                              |        |                          |
|---|-------------------|----------------------|--------|--------------|---------------------------|----------------------|------------------------------|--------|--------------------------|
| SR 39 - No-Build - PM                     |                   |                      |        |              | SR 39 - No-Build - PM     |                      |                              |        |                          |
| <b>Zephyrhills Bypass</b>                 |                   |                      |        |              | <b>Zephyrhills Bypass</b> |                      |                              |        |                          |
| 6,200<br>12,400                           |                   |                      |        |              | 368<br>16,800             |                      |                              |        |                          |
| 123<br>7% <                               | 400<br>700        | 6,600<br>1,100       | 1<br>  | 1,100<br>400 | 648<br>50%                | 7,600<br>2,200       | 90%<br>37%                   | 1<br>  | 483<br>1,300             |
| 1,800<br>3,600                            | 37% <             | N/S<br>13,100        | -----> | 31%<br>500   | 1,300<br>2,700            | 1,300<br>4,200       | E/N<br>N/S                   | -----> | 810<br>500               |
| 1,014<br>1,119                            | 2,100<br>14%<br>V | 6,600<br>15,700<br>V | 1<br>  | 500<br>V     | 246<br>3%<br>228          | 15,100<br>7,500<br>V | 56%<br>14%<br>833%<br>18,000 | -----> | 51%<br>500<br>31%<br>246 |
|   |                   |                      |        |              |                           |                      |                              |        |                          |
|   |                   |                      |        |              |                           |                      |                              |        |                          |



PROJECT TRAFFIC FOR SR 39 - No-Build - PM @ Zephyrhills Bypass Opening Day TO 2010 (From 2005 Base)

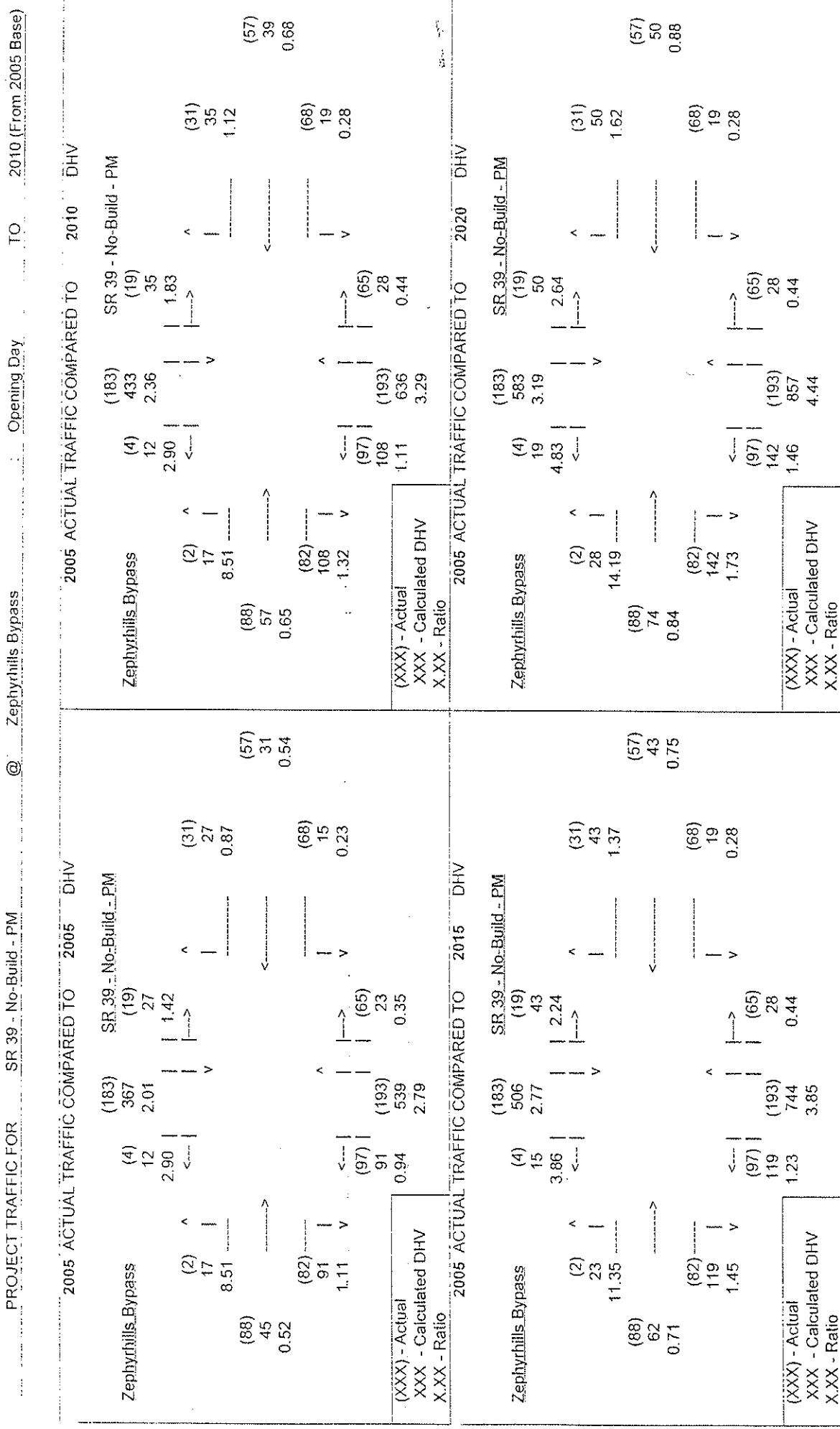


PROJECT TRAFFIC FOR SR 39 - No-Build - PM @ Zephyrhills Bypass



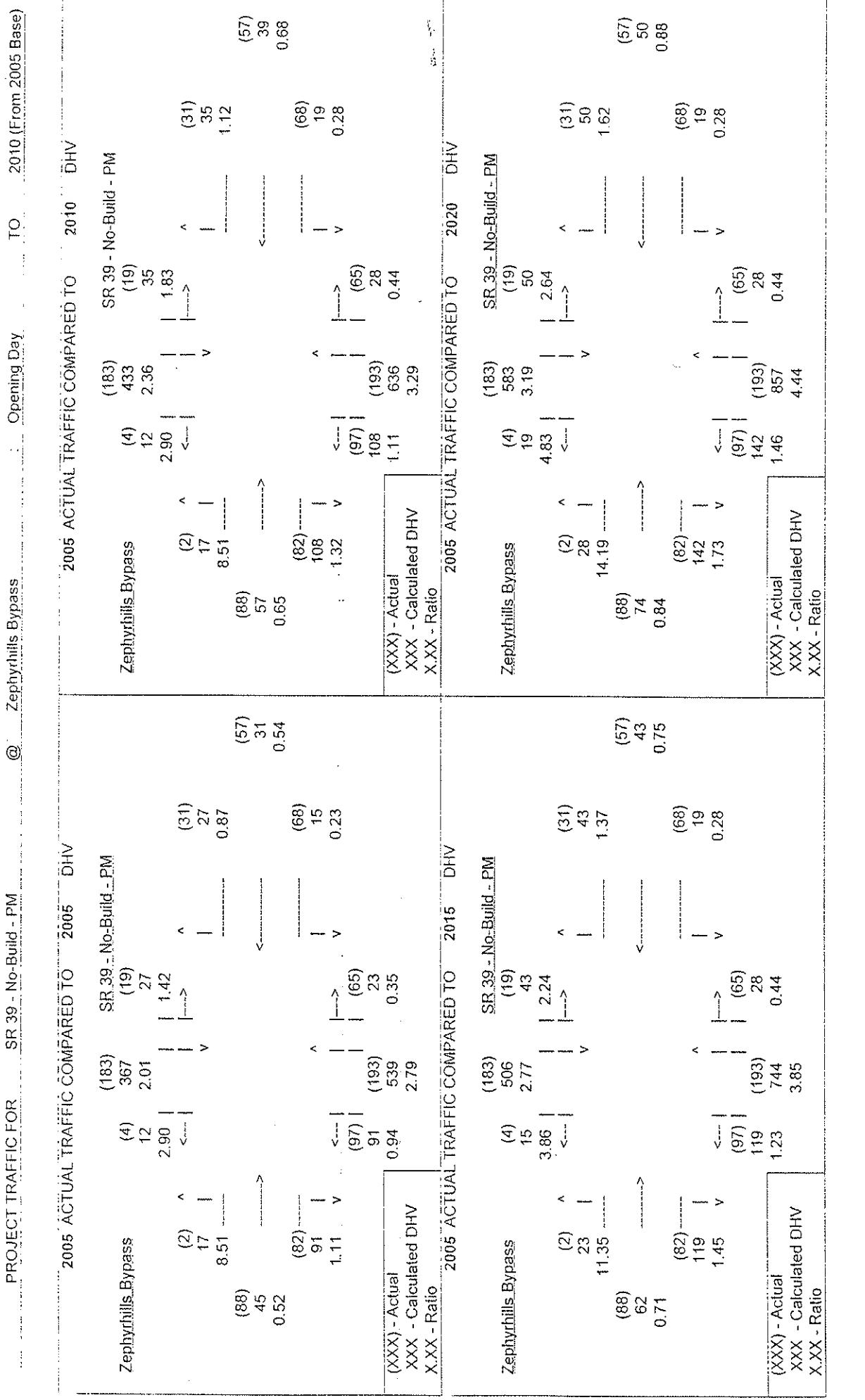
2005 ACTUAL TRAFFIC COMPARED TO 2010 DHV

(XXX) - Actual  
XXX - Calculated DHV  
XXX - Ratio



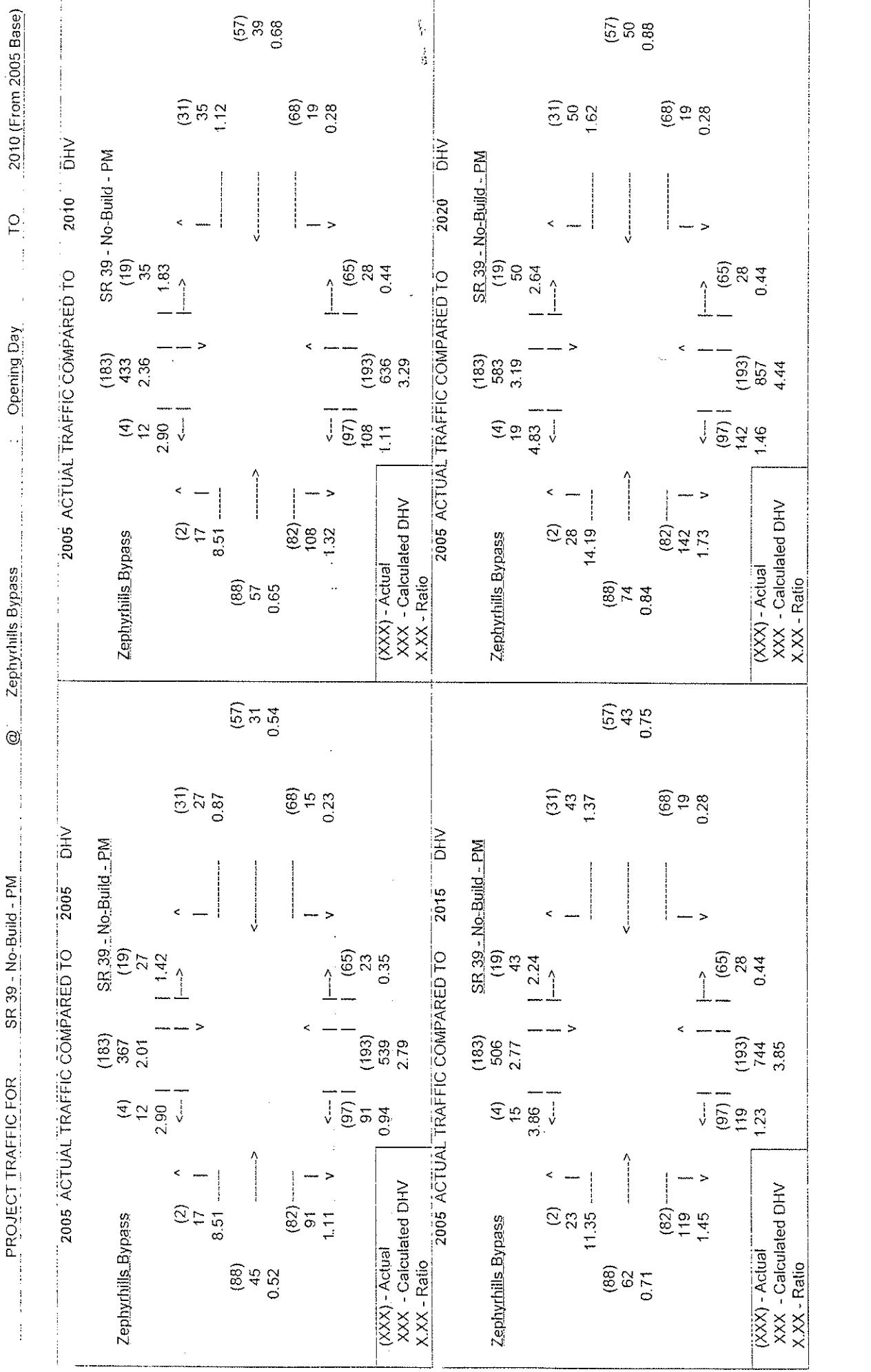
2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV

(XXX) - Actual  
XXX - Calculated DHV  
XXX - Ratio



2005 ACTUAL TRAFFIC COMPARED TO 2030 DHV

(XXX) - Actual  
XXX - Calculated DHV  
XXX - Ratio



2005 ACTUAL TRAFFIC COMPARED TO 2039 DHV

(XXX) - Actual  
XXX - Calculated DHV  
XXX - Ratio

# DATA INPUT

Date:

PAP

30-Nov-98

Highway: SR 39 - No Build - AM  
 Intersection: US 301  
 From: Opening Day  
 To: 2010 (From 2005 Base)  
 County: Pasco

North/South Orientation of Mainline?  
 N  
 (Y/N)

K Factors:  
 Sidestreet Mainline  
 9.54% 10.556%

D Factors:

a. Mainline

|               |                |
|---------------|----------------|
| 54.1%         | Westbound(WB)  |
| 45.9%         | Eastbound(EB)  |
| b. Sidestreet |                |
| 59.5%         | Northbound(NB) |
| 40.5%         | Southbound(SB) |

Do you have FSUTMS Model Year Traffic from which you would like to  
 interpolate/extrapolate for project years? (Y/N)

Y  
 Manual Instr:  
 If Y, go to A43  
 If N, go to A24

IF NO: Enter Year and Growth Rates from Base Year:  
 Year Rate  
 Base  
 Opening  
 Mid  
 Design

Enter Base Year AADTs for Volume Comparison:  
 (uses growth rates to calculate other project years)

| Year | From West:  |             |             | From East:  |             |             | To West:    |             |             | To East:    |             |             | From North: |             |             | From South: |             |             | To North:   |             |             |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|      | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach | EB Approach | WB Approach | SB Approach |
| 2005 | 0           | 5,350       | 10,550      | 0           | 5,250       | 10,550      | 0           | 5,250       | 10,550      | 0           | 5,250       | 10,550      | 0           | 5,250       | 10,550      | 0           | 5,250       | 10,550      | 0           | 5,250       | 10,550      |
| 2010 | 0           | 6,400       | 12,617      | 0           | 6,300       | 12,617      | 0           | 6,300       | 12,617      | 0           | 6,300       | 12,617      | 0           | 6,300       | 12,617      | 0           | 6,300       | 12,617      | 0           | 6,300       | 12,617      |
| 2015 | 0           | 7,450       | 14,683      | 0           | 7,350       | 14,683      | 0           | 7,350       | 14,683      | 0           | 7,350       | 14,683      | 0           | 7,350       | 14,683      | 0           | 7,350       | 14,683      | 0           | 7,350       | 14,683      |
| 2020 | 0           | 8,500       | 16,750      | 0           | 8,400       | 16,750      | 0           | 8,400       | 16,750      | 0           | 8,400       | 16,750      | 0           | 8,400       | 16,750      | 0           | 8,400       | 16,750      | 0           | 8,400       | 16,750      |

# DATA INPUT

Date:

30-Nov-98

Analyst: PAP

|         |                              |
|---------|------------------------------|
| IF YES: | Enter Project & Model Years: |
|         | Base 2005                    |
|         | Opening 2010                 |
|         | Mid 2015                     |
|         | Design 2020                  |
|         | Model 2030                   |

Enter Base & Model Year AADTs for Interpolation:

|            | From West<br>(EB)Approach | From East<br>(WB)Approach | From North<br>(SB)Approach | From South<br>(NB)Approach | TOTAL  |  |
|------------|---------------------------|---------------------------|----------------------------|----------------------------|--------|--|
| Base 2005  | 10,700                    | 21,100                    |                            | 10,500                     | 42,300 |  |
| Model 2020 | 17,000                    |                           | 33,500                     | 16,800                     | 67,300 |  |

## AREA FOR CALCULATION : INTERPOLATION

| model - base:<br>diff of vols: | 15 | 6300   | 12400 | WB     | SB | 0 | 6300 |
|--------------------------------|----|--------|-------|--------|----|---|------|
| year                           |    |        |       |        |    | 0 |      |
| 2005                           |    | 10,700 |       | 21,100 |    |   |      |
| 2010                           |    | 12,800 |       | 25,233 |    | 0 |      |
| 2015                           |    | 14,900 |       | 29,367 |    | 0 |      |
| 2020                           |    | 17,000 |       | 33,500 |    | 0 |      |

Enter "1st Guess" Turning

Percentages for AADT Balancing:

|           |      |
|-----------|------|
| (EB THRU) | 0.95 |
| (EB LT)   | 0.00 |
| (EB RT)   | 0.05 |

|           |      |
|-----------|------|
| (WB THRU) | 0.70 |
| (WB RT)   | 0.00 |
| (WB LT)   | 0.30 |

|           |      |
|-----------|------|
| (SB THRU) | 0.00 |
| (SB LT)   | 0.00 |
| (SB RT)   | 0.00 |

|           |      |
|-----------|------|
| (NB THRU) | 0.05 |
| (NB RT)   | 0.95 |
| (NB LT)   | 0.00 |

|                  |       |
|------------------|-------|
| Desired Closure: | 0.010 |
|------------------|-------|

Actual/Counted Traffic:

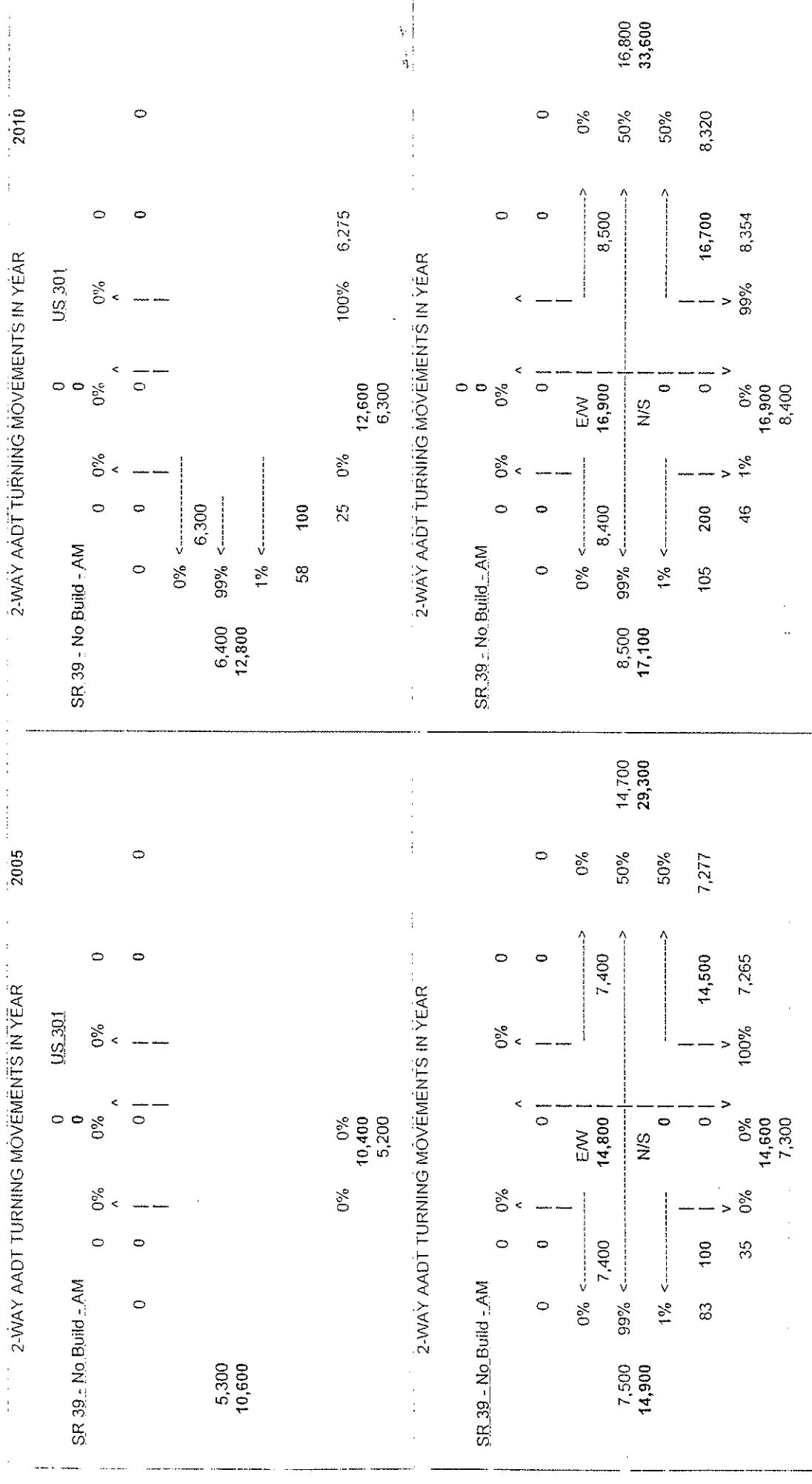
|      |        |
|------|--------|
| 2005 | W-to-E |
| 2013 | W-to-N |
|      | W-to-S |

|     |        |
|-----|--------|
| 400 | E-to-W |
| 0   | E-to-N |
| 174 | E-to-S |

|   |        |
|---|--------|
| 0 | N-to-W |
| 0 | N-to-E |
| 0 | N-to-S |

|     |        |
|-----|--------|
| 4   | S-to-W |
| 172 | S-to-E |
| 0   | S-to-N |

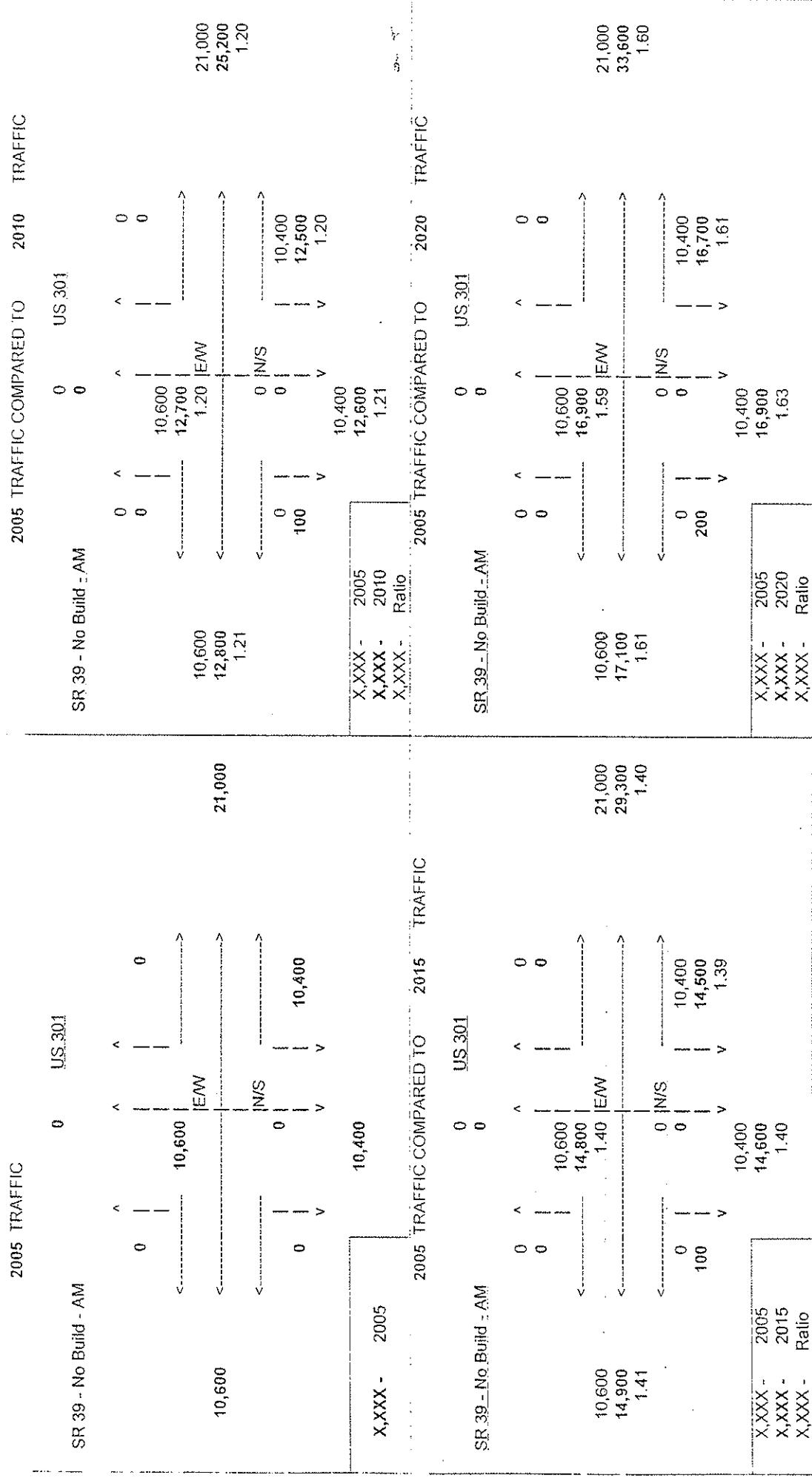
PROJECT TRAFFIC FOR @ US 301 TO 2010 (From 2005 Base)



30139AM.WK4

| PROJECT TRAFFIC FOR                         |              | SR 39 - No Build - AM                       |     | SR 39 - No Build - AM             |                             | SR 39 - No Build - AM             |                             | SR 39 - No Build - AM             |                             | SR 39 - No Build - AM             |                             |
|---|--------------|---|-----|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|
| 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |              | 2005  |     | 2005                              |                             | 2005                              |                             | 2005                              |                             | 2005                              |                             |
| 0   | 0            | US_301                                      | 0   | US_301                            | 0                           | US_301                            | 0                           | US_301                            | 0                           | US_301                            | 0                           |
| SR 39 - No Build - AM                       |              |   |     |                                   |                             |                                   |                             |                                   |                             |                                   |                             |
| 0   | 0            | 0   | 0   | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           |
| ^   |              | <-->  | v   | ^                                 |                             | ^                                 |                             | <-->                              | v                           | ^                                 |                             |
| 0   | 0            | 0   | 0   | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           |
| 514   | 514          | <-->  |     | <-->                              |                             | <-->                              |                             | <-->                              |                             | <-->                              |                             |
| 0   | 0            | 0   | 0   | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           |
| K ml = 9.54%                                | K ss = 9.54% | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |     | D wb&eb = 54.1%   D nb&sb = 59.5% | K ml = 9.54%   K ss = 9.54% | D wb&eb = 54.1%   D nb&sb = 59.5% | K ml = 9.54%   K ss = 9.54% | D wb&eb = 54.1%   D nb&sb = 59.5% | K ml = 9.54%   K ss = 9.54% | D wb&eb = 54.1%   D nb&sb = 59.5% | K ml = 9.54%   K ss = 9.54% |
| 590   | 590          | 590   | 590 | 594                               | 606                         | 616                               | 620                         | 616                               | 616                         | 616                               | 616                         |
| SR 39 - No Build - AM                       |              |   |     |                                   |                             |                                   |                             |                                   |                             |                                   |                             |
| 0   | 0            | 0   | 0   | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           |
| ^   |              | <-->  | v   | ^                                 |                             | <-->                              | v                           | <-->                              | v                           | <-->                              | v                           |
| 0   | 0            | 0   | 0   | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           |
| 722   | 717          | <-->  |     | <-->                              |                             | <-->                              |                             | <-->                              |                             | <-->                              |                             |
| 5   | 5            | 5   | 5   | 6                                 | 6                           | 6                                 | 6                           | 6                                 | 6                           | 6                                 | 6                           |
| K ml = 9.54%                                | K ss = 9.54% | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |     | D wb&eb = 54.1%   D nb&sb = 59.5% | K ml = 9.54%   K ss = 9.54% | D wb&eb = 54.1%   D nb&sb = 59.5% | K ml = 9.54%   K ss = 9.54% | D wb&eb = 54.1%   D nb&sb = 59.5% | K ml = 9.54%   K ss = 9.54% | D wb&eb = 54.1%   D nb&sb = 59.5% | K ml = 9.54%   K ss = 9.54% |
| 829   | 829          | 823   | 823 | 828                               | 846                         | 846                               | 846                         | 846                               | 846                         | 846                               | 846                         |
| SR 39 - No Build - AM                       |              |   |     |                                   |                             |                                   |                             |                                   |                             |                                   |                             |
| 0   | 0            | 0   | 0   | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           |
| ^   |              | <-->  | v   | ^                                 |                             | <-->                              | v                           | <-->                              | v                           | <-->                              | v                           |
| 0   | 0            | 0   | 0   | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           | 0                                 | 0                           |
| 726   | 726          | 726   | 726 | 726                               | 726                         | 726                               | 726                         | 726                               | 726                         | 726                               | 726                         |
| 959   | 959          | 948   | 948 | 948                               | 959                         | 959                               | 959                         | 959                               | 959                         | 959                               | 959                         |

PROJECT TRAFFIC FOR SR 39 - No Build - AM @ US 301 Opening Day TO 2010 (From 2005 Base)



| PROJECT TRAFFIC FOR                              |          | SR 39 - No Build - AM |          | @ US 301 |          | Opening Day |          | TO     |          | 2010 (From 2005 Base) |          |
|--|----------|-----------------------|----------|----------|----------|-------------|----------|--------|----------|-----------------------|----------|
|  |          |                       |          |          |          |             |          |        |          |                       |          |
| <b>2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV</b>  |          |                       |          |          |          |             |          |        |          |                       |          |
| SR 39 - No Build - AM                            | 0        | 0                     | US 301   | 0        | 0        | US 301      | 0        | 0      | 0        | US 301                | 0        |
| 0 ^  | ERR      | 0                     | ERR      | 0        | ERR      | 0           | ERR      | 0      | ERR      | 0                     | ERR      |
| 0  | <--      | v                     | <--      | v        | <--      | v           | <--      | v      | <--      | v                     | <--      |
| ERR -----  |          |                       |          |          |          |             |          |        |          |                       |          |
| (213) 514 2.41                                   | ----->   |                       | ----->   |          | ----->   |             | ----->   |        | ----->   |                       | ----->   |
| 0  | (3)----- | v                     | (4)----- | v        | (4)----- | v           | (4)----- | v      | (4)----- | v                     | (4)----- |
| 0.00   |          |                       |          |          |          |             |          |        |          |                       |          |
| (XXX) - Actual XXX - Calculated DHV X.XX - Ratio | 0.00     | 0.00                  | 0.00     | 0.00     | 0.00     | 0.00        | 0.00     | 0.00   | 0.00     | 0.00                  | 0.00     |
| <b>2005 ACTUAL TRAFFIC COMPARED TO 2010 DHV</b>  |          |                       |          |          |          |             |          |        |          |                       |          |
| SR 39 - No Build - AM                            | 0        | 0                     | US 301   | 0        | 0        | US 301      | 0        | 0      | 0        | US 301                | 0        |
| 0 ^  | ERR      | 0                     | ERR      | 0        | ERR      | 0           | ERR      | 0      | ERR      | 0                     | ERR      |
| 0  | <--      | v                     | <--      | v        | <--      | v           | <--      | v      | <--      | v                     | <--      |
| ERR -----  |          |                       |          |          |          |             |          |        |          |                       |          |
| (213) 717 3.37                                   | ----->   |                       | ----->   |          | ----->   |             | ----->   |        | ----->   |                       | ----->   |
| 5  | (3)----- | v                     | (4)----- | v        | (4)----- | v           | (4)----- | v      | (4)----- | v                     | (4)----- |
| 1.62   |          |                       |          |          |          |             |          |        |          |                       |          |
| (XXX) - Actual XXX - Calculated DHV X.XX - Ratio | 6 1.42   | 6 1.42                | 0 1.42   | 0 1.42   | 0 1.42   | 0 1.42      | 0 1.42   | 0 1.42 | 0 1.42   | 0 1.42                | 0 1.42   |
| <b>2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV</b>  |          |                       |          |          |          |             |          |        |          |                       |          |
| SR 39 - No Build - AM                            | 0        | 0                     | US 301   | 0        | 0        | US 301      | 0        | 0      | 0        | US 301                | 0        |
| 0 ^  | ERR      | 0                     | ERR      | 0        | ERR      | 0           | ERR      | 0      | ERR      | 0                     | ERR      |
| 0  | <--      | v                     | <--      | v        | <--      | v           | <--      | v      | <--      | v                     | <--      |
| ERR -----  |          |                       |          |          |          |             |          |        |          |                       |          |
| (213) 717 3.37                                   | ----->   |                       | ----->   |          | ----->   |             | ----->   |        | ----->   |                       | ----->   |
| 5  | (3)----- | v                     | (4)----- | v        | (4)----- | v           | (4)----- | v      | (4)----- | v                     | (4)----- |
| 1.62   |          |                       |          |          |          |             |          |        |          |                       |          |
| (XXX) - Actual XXX - Calculated DHV X.XX - Ratio | 6 1.42   | 6 1.42                | 0 1.42   | 0 1.42   | 0 1.42   | 0 1.42      | 0 1.42   | 0 1.42 | 0 1.42   | 0 1.42                | 0 1.42   |
| <b>2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV</b>  |          |                       |          |          |          |             |          |        |          |                       |          |
| SR 39 - No Build - AM                            | 0        | 0                     | US 301   | 0        | 0        | US 301      | 0        | 0      | 0        | US 301                | 0        |
| 0 ^  | ERR      | 0                     | ERR      | 0        | ERR      | 0           | ERR      | 0      | ERR      | 0                     | ERR      |
| 0  | <--      | v                     | <--      | v        | <--      | v           | <--      | v      | <--      | v                     | <--      |
| ERR -----  |          |                       |          |          |          |             |          |        |          |                       |          |
| (213) 717 3.37                                   | ----->   |                       | ----->   |          | ----->   |             | ----->   |        | ----->   |                       | ----->   |
| 5  | (3)----- | v                     | (4)----- | v        | (4)----- | v           | (4)----- | v      | (4)----- | v                     | (4)----- |
| 1.62   |          |                       |          |          |          |             |          |        |          |                       |          |
| (XXX) - Actual XXX - Calculated DHV X.XX - Ratio | 6 1.42   | 6 1.42                | 0 1.42   | 0 1.42   | 0 1.42   | 0 1.42      | 0 1.42   | 0 1.42 | 0 1.42   | 0 1.42                | 0 1.42   |

## DATA INPUT

Date:

30-Nov-98

|               |                       |
|---------------|-----------------------|
| Analyst:      | PAP                   |
| Highway:      | SR 39 - No Build - PM |
| Intersection: | US 361                |
| From:         | Opening Day           |
| To:           | 2010 (From 2005 Base) |
| County:       | PASCO                 |

North/South Orientation of Mainline?  
(Y/N)

|            |                                     |
|------------|-------------------------------------|
| K Factors: | Mainline                            |
| Sidestreet | <input type="text" value="9.54%"/>  |
|            | <input type="text" value="10.56%"/> |

D Factors:

a. Mainline

|               |                |
|---------------|----------------|
| 45.9%         | Westbound(NB)  |
| 54.1%         | Eastbound(EB)  |
| b. Sidestreet |                |
| 59.1%         | Northbound(NB) |

40.5% Southbound(SB)

Do you have FSUTMS Model Year Traffic from which you would like to  
interpolate/extrapolate for project years? (Y/N)

IF NO: Enter Year and Growth Rates from Base Year:  
Year Rate

|         |  |
|---------|--|
| Base    |  |
| Opening |  |
| Mid     |  |
| Design  |  |

Enter Base Year AADTs for Volume Comparison:  
(uses growth rates to calculate other project years)

| Year | From West: EB Approach | From East: WB Approach | From North: SB Approach | TOTAL |
|------|------------------------|------------------------|-------------------------|-------|
| 2005 | 0                      | 0                      | 0                       | 0     |
| 2010 | 0                      | 0                      | 0                       | 0     |
| 2015 | 0                      | 0                      | 0                       | 0     |
| 2020 | 0                      | 0                      | 0                       | 0     |

| Year | From West: EB Approach | From East: WB Approach | From North: SB Approach | TOTAL |
|------|------------------------|------------------------|-------------------------|-------|
| 2005 | 5,350                  | 10,550                 | 0                       | 5,250 |
| 2010 | 6,400                  | 12,617                 | 0                       | 6,300 |
| 2015 | 7,450                  | 14,683                 | 0                       | 7,350 |
| 2020 | 8,500                  | 16,750                 | 0                       | 8,400 |

| Year | From West: EB Approach | From East: WB Approach | From North: SB Approach | TOTAL |
|------|------------------------|------------------------|-------------------------|-------|
| 2005 | 5,350                  | 10,550                 | 0                       | 5,250 |
| 2010 | 6,400                  | 12,617                 | 0                       | 6,300 |
| 2015 | 7,450                  | 14,683                 | 0                       | 7,350 |
| 2020 | 8,500                  | 16,750                 | 0                       | 8,400 |

# DATA INPUT

Date:

Analyst: PAP

30-Nov-98

IF YES: Enter Project & Model Years:  
 Base 2005  
 Opening 2010  
 Mid 2015  
 Design 2020  
 Model 2026

Enter Base & Model Year AADTs for Interpolation:

|       | From West | From East | From North | From South | TOTAL  | (NB)Approach | (SB)Approach | (WB)Approach | (EB)Approach | From West | From East | From North | From South | TOTAL  | (NB)Approach | (SB)Approach | (WB)Approach | (EB)Approach | From West | From East | From North | From South | TOTAL  | (NB)Approach | (SB)Approach | (WB)Approach | (EB)Approach |
|-------|-----------|-----------|------------|------------|--------|--------------|--------------|--------------|--------------|-----------|-----------|------------|------------|--------|--------------|--------------|--------------|--------------|-----------|-----------|------------|------------|--------|--------------|--------------|--------------|--------------|
| Base  | 2005      | 10,700    | 21,100     | 10,500     | 42,300 | 10,500       | 21,100       | 10,500       | 21,100       | 2005      | 6300      | 12,400     | 0          | 6300   | 10,500       | 21,100       | 10,500       | 21,100       | 2005      | 6300      | 12,400     | 0          | 6300   | 10,500       | 21,100       | 10,500       | 21,100       |
| Model | 2020      | 17,000    | 33,500     | 16,800     | 67,300 | 16,800       | 33,500       | 16,800       | 33,500       | 2010      | 12,800    | 25,233     | 0          | 12,800 | 14,900       | 29,367       | 0            | 14,900       | 2010      | 12,800    | 25,233     | 0          | 12,800 | 14,900       | 29,367       | 0            | 14,900       |
|       |           |           |            |            |        |              |              |              |              | 2015      | 14,900    | 29,367     | 0          | 14,900 | 17,000       | 33,500       | 0            | 17,000       | 2015      | 14,900    | 29,367     | 0          | 14,900 | 17,000       | 33,500       | 0            | 17,000       |
|       |           |           |            |            |        |              |              |              |              | 2020      | 17,000    | 33,500     | 0          | 17,000 | 17,000       | 33,500       | 0            | 17,000       | 2020      | 17,000    | 33,500     | 0          | 17,000 | 17,000       | 33,500       | 0            | 17,000       |

## AREA FOR CALCULATION : INTERPOLATION

| model - base: | 15 | diff of vols: | 0 | year | EB     | WB | NB |
|---------------|----|---------------|---|------|--------|----|----|
|               |    |               |   | 2005 | 10,700 | 0  | 0  |
|               |    |               |   | 2010 | 12,800 | 0  | 0  |
|               |    |               |   | 2015 | 14,900 | 0  | 0  |
|               |    |               |   | 2020 | 17,000 | 0  | 0  |

Enter "1st Guess" Turning

Percentages for AADT Balancing:  
 (EB THRU) W-to-E 0.96  
 (EB LT) W-to-N 0.00  
 (EB RT) W-to-S 0.04

Actual/Counted Traffic: 2005  
 W-to-E 463  
 W-to-N 0  
 W-to-S 7

E-to-W 272  
 E-to-N 0  
 E-to-S 240

N-to-W 0  
 N-to-E 0  
 N-to-S 0

S-to-W 0  
 S-to-E 0  
 S-to-S 0

(SB RT) N-to-W 0.53  
 (SB LT) N-to-E 0.00  
 (SB THRU) N-to-S 0.47

(NB LT) S-to-W 0.02  
 (NB RT) S-to-E 0.98  
 (NB THRU) S-to-S 0.00

(NB LT) S-to-W 0.02  
 (NB RT) S-to-E 0.98  
 (NB THRU) S-to-S 0.00

Desired Closure: 0.010

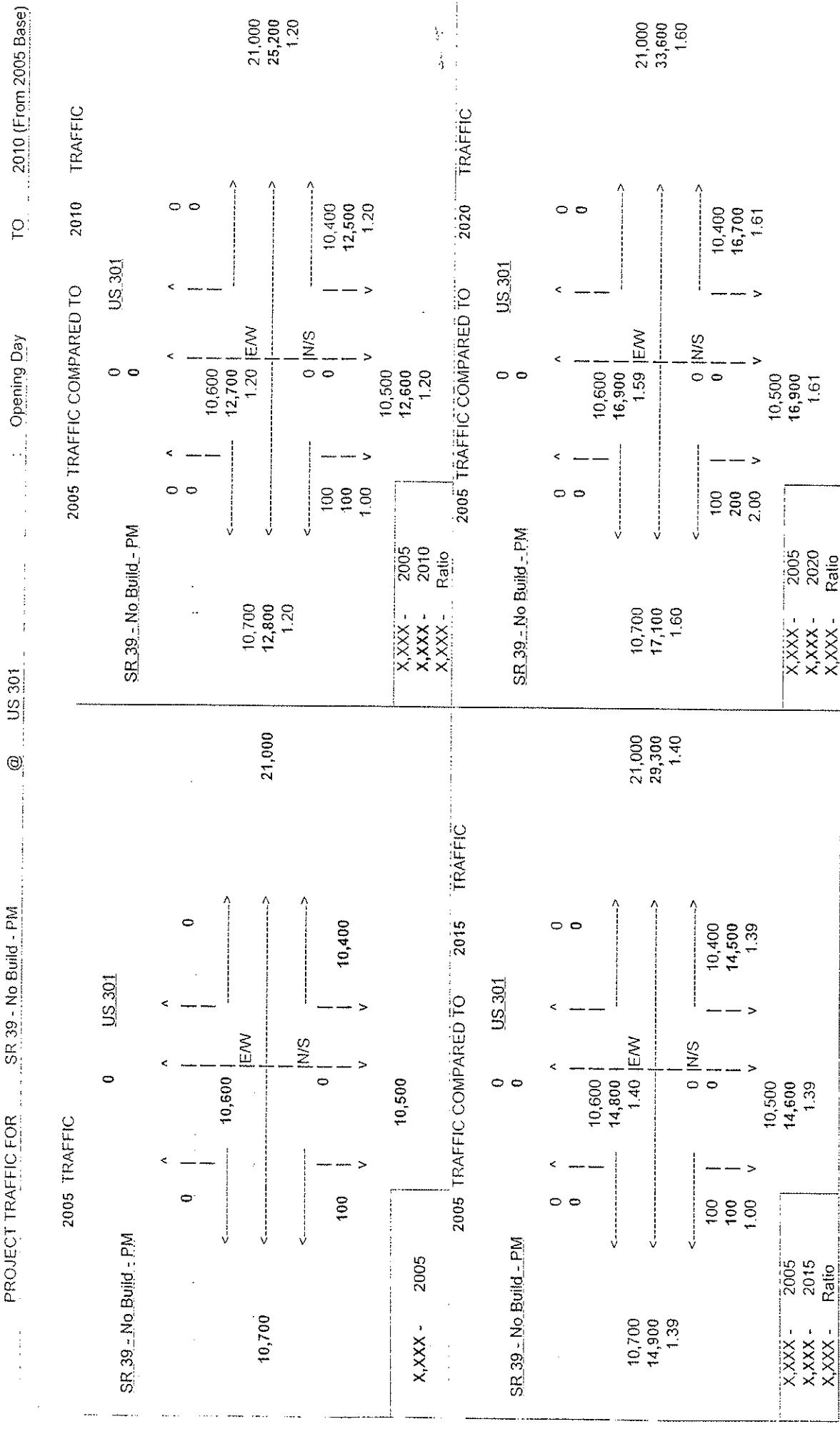
PROJECT TRAFFIC FOR ..... SR 39 - No Build - PM ..... @ ..... US 301 ..... Opening Day ..... TO ..... 2010 (From 2005 Base)

| 2-WAY AADT TURNING MOVEMENTS IN YEAR |             | 2005                  |       | 2010                  |        | 2010                  |        |
|--------------------------------------|-------------|-----------------------|-------|-----------------------|--------|-----------------------|--------|
| SR 39 - No Build - PM                |             | SR 39 - No Build - PM |       | SR 39 - No Build - PM |        | SR 39 - No Build - PM |        |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 5,300                                | 10,700      | 6,400                 | 9,900 | 6,300                 | 12,800 | 58                    | 100    |
| 0%                                   | 0%          | 0%                    | 0%    | 0%                    | 0%     | 26                    | 0%     |
| 10,500                               | 5,200       | 12,600                | 6,300 | 12,600                | 6,300  | 58                    | 100    |
| 0%                                   | 0%          | 0%                    | 0%    | 0%                    | 0%     | 100%                  | 100%   |
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |             | 2005                  |       | 2010                  |        | 2010                  |        |
| SR 39 - No Build - PM                |             | SR 39 - No Build - PM |       | SR 39 - No Build - PM |        | SR 39 - No Build - PM |        |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 0%                                   | <           | E/W                   | >     | 0%                    | <      | E/W                   | >      |
| 7,500                                | 99% < 7,400 | 14,800                | 7,400 | 50%                   | 14,700 | 8,500                 | 8,500  |
| 14,900                               | 1% <        | N/S                   | 0     | 50%                   | 29,300 | 17,100                | 17,100 |
| 82                                   | 100         | 0                     | 0     | 0                     | 105    | 200                   | 105    |
| 36                                   | 0%          | 0%                    | 100%  | 100%                  | 46     | 1%                    | 46     |
| 14,600                               | 7,300       | 7,277                 | 7,277 | 7,264                 | 16,900 | 8,500                 | 8,354  |
| 0%                                   | 0%          | 0%                    | 0%    | 0%                    | 0%     | 0%                    | 0%     |
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |             | 2005                  |       | 2010                  |        | 2010                  |        |
| SR 39 - No Build - PM                |             | SR 39 - No Build - PM |       | SR 39 - No Build - PM |        | SR 39 - No Build - PM |        |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 0                                    | 0           | 0                     | 0     | 0                     | 0      | 0                     | 0      |
| 0%                                   | <           | E/W                   | >     | 0%                    | <      | E/W                   | >      |
| 7,500                                | 99% < 7,400 | 14,800                | 7,400 | 50%                   | 14,700 | 8,500                 | 8,500  |
| 14,900                               | 1% <        | N/S                   | 0     | 50%                   | 29,300 | 17,100                | 17,100 |
| 82                                   | 100         | 0                     | 0     | 0                     | 105    | 200                   | 105    |
| 36                                   | 0%          | 0%                    | 100%  | 100%                  | 46     | 1%                    | 46     |
| 14,600                               | 7,300       | 7,277                 | 7,277 | 7,264                 | 16,900 | 8,500                 | 8,354  |
| 0%                                   | 0%          | 0%                    | 0%    | 0%                    | 0%     | 0%                    | 0%     |

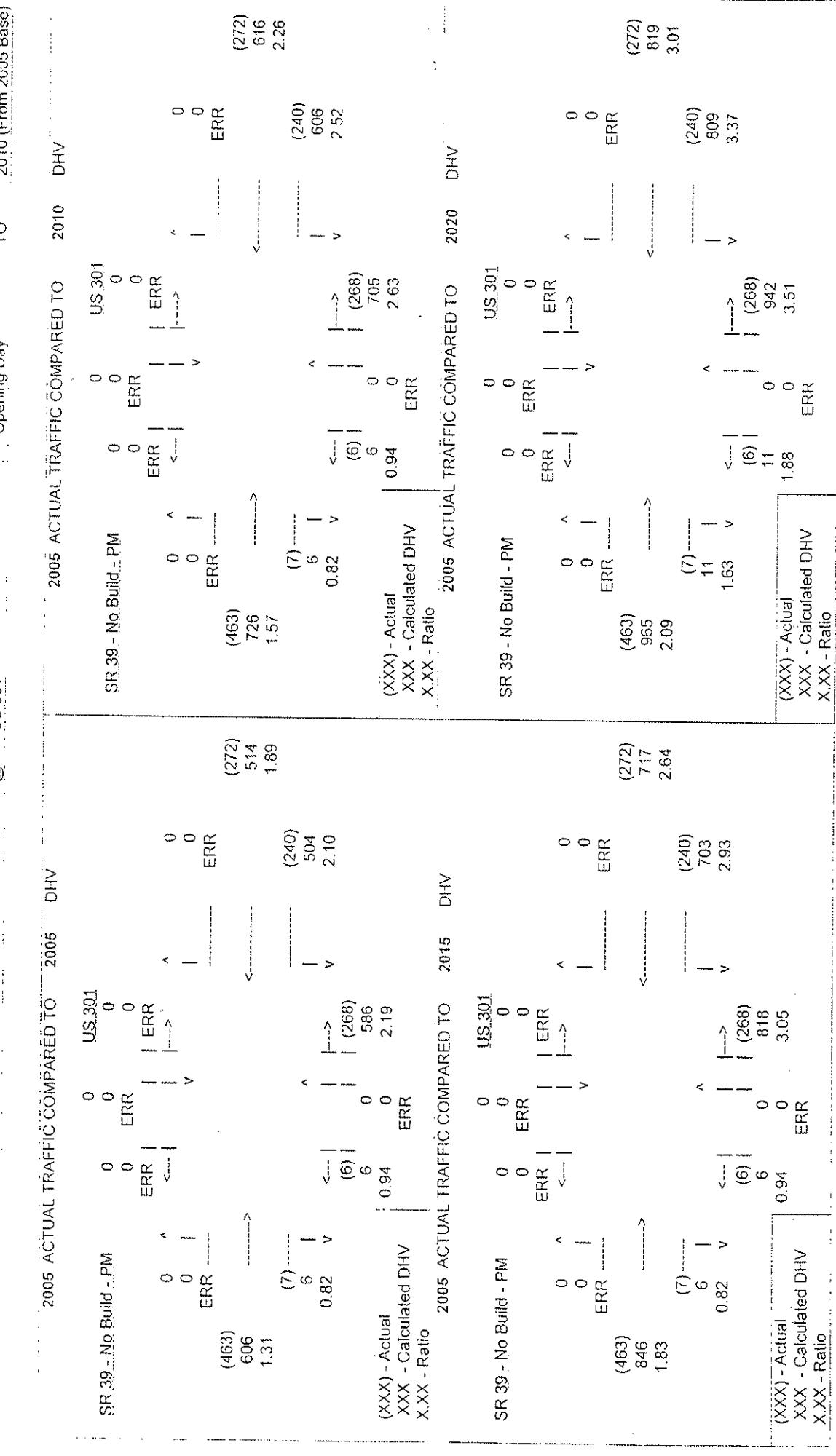
PROJECT TRAFFIC FOR SR 39 - No Build - PM @ US 301 Opening Day TO 2010 (From 2005 Base)

#### 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR

|                              |                                    | 2005  |                                    | 2010  |        |
|------------------------------|------------------------------------|---|------------------------------------|---|--------|
|                              |                                    | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |                                    | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |        |
| SR 39 - No Build - PM        | US 301                             | 0   | US 301                             | 0   | US 301 |
| K ml = 9.54%                 | K ss = 9.54%                       | 0   | 0                                  | 0   | 0      |
| 0                            | 0                                  | 0   | 0                                  | 0   | 0      |
| 611                          | 606                                | 0   | 0                                  | 0   | 0      |
| 6                            | 6                                  | 0   | 0                                  | 0   | 0      |
| 592                          | 592                                | 514   | 1,018                              | 726   | 731    |
| 6                            | 6                                  | 504   | 586                                | 6   | 6      |
| 592                          | 592                                | 592   | 592                                | 710   | 710    |
| K ml = 54.1%<br>K ss = 54.1% | D wb&eb = 45.9%<br>D nb&sb = 59.1% | D wb&eb = 40.5%<br>D nb&sb = 59.1%          | D wb&eb = 54.1%<br>D nb&sb = 59.1% | 612   | 612    |
| 0                            | 0                                  | 0   | 0                                  | 0   | 0      |
| 851                          | 846                                | 717   | 1,420                              | 965   | 977    |
| 6                            | 6                                  | 703   | 818                                | 11  | 11     |
| 823                          | 823                                | 823   | 823                                | 953   | 953    |
| K ml = 54.1%<br>K ss = 54.1% | D wb&eb = 45.9%<br>D nb&sb = 59.1% | D wb&eb = 40.5%<br>D nb&sb = 59.1%          | D wb&eb = 54.1%<br>D nb&sb = 59.1% | 907   | 907    |



## PROJECT TRAFFIC FOR SR 39 - No Build - PM



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## **Build Alternative**

TURNS4 Analysis Documentation

# DATA INPUT

Date:

PAP

30 Mar-99

Highway:  SR 39 - BUILD - AM  
 Intersection:  San Allen Rd.  
 From:  Opening Day  
 To:  2010 (From 2005 Base)  
 County:  Hillsborough

North/South Orientation of Mainline?  
 Y

D Factors:

a. Mainline  
 40.5% Northbound(NB)  
 59.5% Southbound(SB)  
 b. Sidestreet  
 40.5% Eastbound(EB)  
 59.5% Westbound(WB)

Do you have FSUIMS Model Year Traffic from which you would like to  
 interpolate/extrapolate for project years? (Y/N)

IF NO: Enter Year and Growth Rates from Base Year:  
 Year:   
 Rate:   
 Base:   
 Opening:   
 Mid:   
 Design:

Enter Base Year AADTs for Volume Comparison:  
 (uses growth rates to calculate other project years)

| RANGE NAMES FOR YEARS: |      |                        |                        |                         |                         |
|------------------------|------|------------------------|------------------------|-------------------------|-------------------------|
| Base                   | 2005 | From West: EB Approach | From East: WB Approach | From North: SB Approach | From South: NB Approach |
| Open                   |      | 2,300                  | 2,700                  | 2,500                   | 5,650                   |
| Mid                    |      | 2,667                  | 3,033                  | 3,000                   | 5,933                   |
| Design                 |      | 3,033                  | 3,467                  | 3,500                   | 6,217                   |

## AREA FOR CALCULATIONS: 1/2 OF INPUT AADT

| AREA FOR CALCULATIONS: 1/2 OF INPUT AADT |                        |                        |                         |                         |        |
|--|------------------------|------------------------|-------------------------|-------------------------|--------|
| Year                                     | From West: EB Approach | From East: WB Approach | From North: SB Approach | From South: NB Approach | TOTAL  |
| 2005                                     | 2,300                  | 2,700                  | 2,500                   | 5,650                   | 13,150 |
| 2010                                     | 2,667                  | 3,033                  | 3,000                   | 5,933                   | 14,683 |
| 2015                                     | 3,033                  | 3,467                  | 3,500                   | 6,217                   | 16,217 |
| 2020                                     | 3,400                  | 3,850                  | 4,000                   | 6,500                   | 17,750 |

| To West  |             |             |             |             |       |
|----------|-------------|-------------|-------------|-------------|-------|
| To East  |             |             |             |             |       |
| To South |             |             |             |             |       |
| Year     | EB Approach | WB Approach | SB Approach | NB Approach | TOTAL |
| 2005     | 0           | 2,300       | 2,700       | 2,500       | 5,650 |
| 2010     | 0           | 2,667       | 3,033       | 3,000       | 5,933 |
| 2015     | 0           | 3,033       | 3,467       | 3,500       | 6,217 |
| 2020     | 0           | 3,400       | 3,850       | 4,000       | 6,500 |

## DATA INPUT

Date:

30-Mar-99

FAP

IF YES: Enter Project &amp; Model Years:

|         |      |
|---------|------|
| Base    | 2005 |
| Opening | 2010 |
| Mid     | 2015 |
| Design  | 2020 |
| Model   | 2020 |

Enter Base &amp; Model Year AADT's for Interpolation:

| Base  | From West |       | From East |        | From North |            | From South |            | (NB) Approach |       | TOTAL |       |
|-------|-----------|-------|-----------|--------|------------|------------|------------|------------|---------------|-------|-------|-------|
|       | (EB)      | (WB)  | (WB)      | (EB)   | (SB)       | (Approach) | (NB)       | (Approach) | (EB)          | (WB)  | (SB)  | (NB)  |
| 2005  | 4,600     | 5,400 | 5,000     | 11,300 | 26,300     |            |            |            | 2005          | 4,600 | 5,400 | 5,000 |
| Model | 2020      | 6,800 | 7,700     | 8,000  | 13,000     | 35,500     |            |            | 2010          | 5,333 | 6,167 | 6,000 |

AREA FOR CALCULATION : INTERPOLATION

| model - base: | 15   |
|---------------|------|
| diff of yrs:  | 2200 |
| year          | 2300 |
| EB            | 2300 |
| WB            | 3000 |
| SB            | 3000 |
| NB            | 1700 |

Enter "1st Guess" Turning Percentages for AADT Balancing:

|           |      |
|-----------|------|
| (EB THRU) | 0.40 |
| (EB LT)   | 0.10 |
| (EB RT)   | 0.50 |

|           |      |
|-----------|------|
| (WB THRU) | 0.32 |
| (WB RT)   | 0.35 |
| (WB LT)   | 0.33 |

|           |      |
|-----------|------|
| (SB RT)   | 0.03 |
| (SB LT)   | 0.22 |
| (SB THRU) | 0.75 |

|           |      |
|-----------|------|
| (NB LT)   | 0.23 |
| (NB RT)   | 0.14 |
| (NB THRU) | 0.63 |

Desired Closure: 0.010

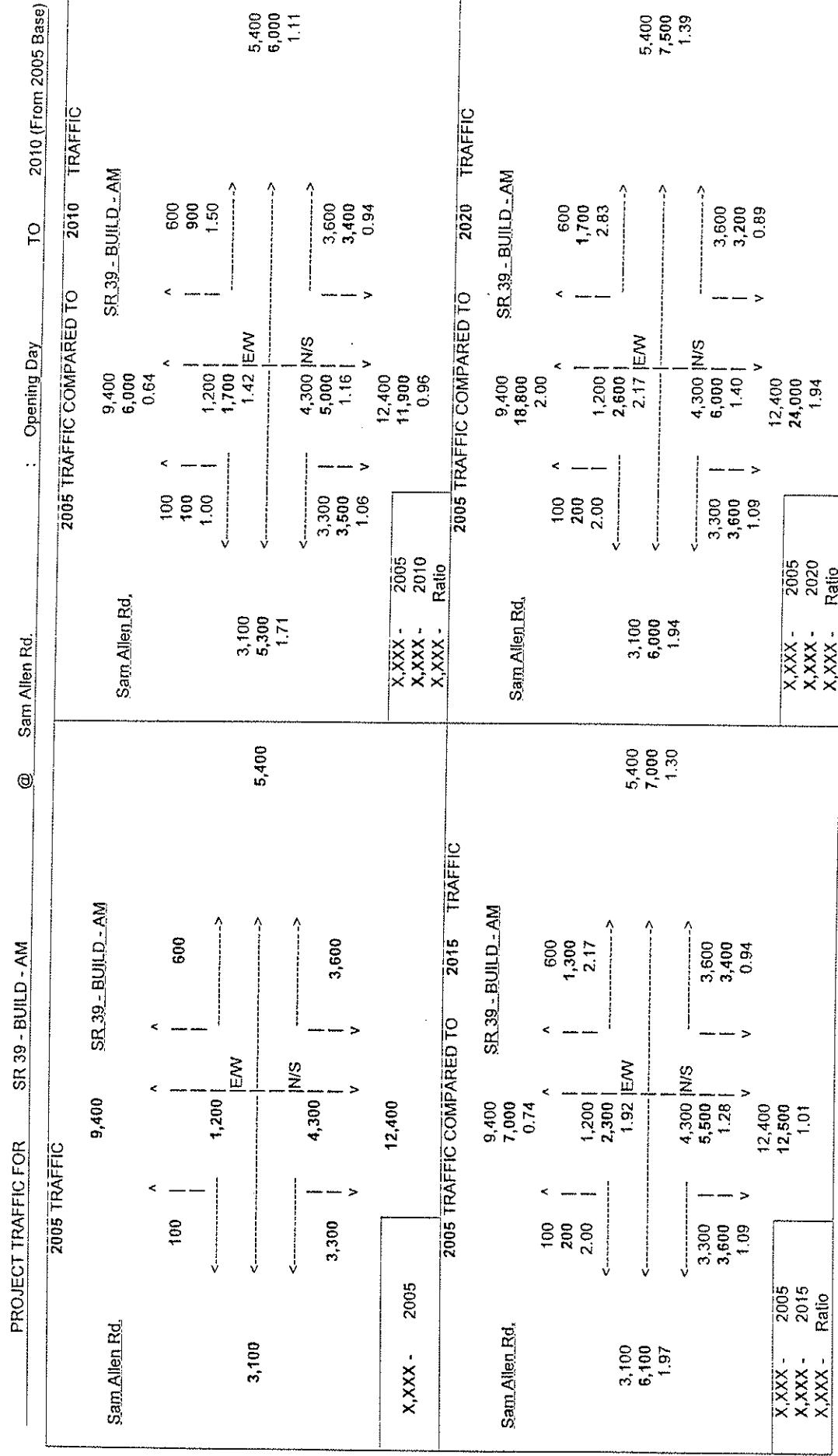
Actual/Counted Traffic:

|      |        |
|------|--------|
| 2005 | W-to-E |
|      | W-to-N |
|      | W-to-S |

|      |        |
|------|--------|
| 2010 | E-to-W |
|      | E-to-N |
|      | E-to-S |

|      |        |
|------|--------|
| 2015 | N-to-W |
|      | N-to-E |
|      | N-to-S |

| PROJECT TRAFFIC FOR                                |                    | SR 39 - BUILD - AM |                    | @ Sam Allen Rd. |              | Opening Day  |                 | TO  |              | 2010 (From 2005 Base) |                 |  |  |  |  |
|--|--------------------|--------------------|--------------------|-----------------|--------------|--|-----------------|---|--------------|-----------------------|-----------------|--|--|--|--|
| 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR        |                    |                    |                    | 2005            |              |  |                 | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |              |                       |                 |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |                    |                    |                    |                 |              | <b>Sam Allen Rd.</b>                               |                 |   |              |                       |                 |  |  |  |  |
| 284  | SR 39 - BUILD - AM | 284                | SR 39 - BUILD - AM | 341             | 248          | 284  | 248             | 341   | 248          | 284                   | 248             |  |  |  |  |
| 6  | 244                | 34                 | 6                  | 237             | 4            | 237  | 4               | 237   | 4            | 237                   | 4               |  |  |  |  |
| 178  | 46 ----->          | ----->             | 34                 | 205             | 66 ----->    | 205  | 66 ----->       | 205   | 66 ----->    | 205                   | 66 ----->       |  |  |  |  |
| 128  | 128 ----->         | ----->             | 68                 | 307             | 135 ----->   | 307  | 135 ----->      | 307   | 135 ----->   | 307                   | 135 ----->      |  |  |  |  |
| 128  | 128 ----->         | ----->             | 204                | 135 ----->      | 135 ----->   | 204  | 135 ----->      | 204   | 135 ----->   | 204                   | 135 ----->      |  |  |  |  |
| K ml = 9.54%                                       | K ss = 9.54%       | D nb&sb = 40.5%    | D eb&wb = 40.5%    | K ml = 9.54%    | K ss = 9.54% | D nb&sb = 40.5%                                    | D eb&wb = 40.5% | K ml = 9.54%                                | K ss = 9.54% | D nb&sb = 40.5%       | D eb&wb = 40.5% |  |  |  |  |
| 433  | 433                | 433                | 433                | 612             | 460          | 612  | 460             | 612   | 460          | 612                   | 460             |  |  |  |  |
| K ml = 9.54%                                       | K ss = 9.54%       | D nb&sb = 40.5%    | D eb&wb = 40.5%    | K ml = 9.54%    | K ss = 9.54% | D nb&sb = 40.5%                                    | D eb&wb = 40.5% | K ml = 9.54%                                | K ss = 9.54% | D nb&sb = 40.5%       | D eb&wb = 40.5% |  |  |  |  |
| <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |                    |                    |                    |                 |              | <b>1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR</b> |                 |   |              |                       |                 |  |  |  |  |
| <b>Sam Allen Rd.</b>                               |                    |                    |                    |                 |              | <b>Sam Allen Rd.</b>                               |                 |   |              |                       |                 |  |  |  |  |
| 397  | SR 39 - BUILD - AM | 397                | SR 39 - BUILD - AM | 448             | 336          | 397  | 336             | 448   | 336          | 397                   | 336             |  |  |  |  |
| 11   | 312                | 74                 | 11                 | 341             | 96           | 341  | 96              | 341   | 96           | 341                   | 96              |  |  |  |  |
| 236  | 89 ----->          | ----->             | 74                 | 298             | 8 ----->     | 298  | 8 ----->        | 298   | 8 ----->     | 298                   | 8 ----->        |  |  |  |  |
| 139  | 139 ----->         | ----->             | 131                | 397             | 247          | 131  | 397             | 247   | 131          | 397                   | 247             |  |  |  |  |
| 139  | 139 ----->         | ----->             | 193                | 139 ----->      | 139 ----->   | 193  | 139 ----->      | 193   | 139 ----->   | 193                   | 139 ----->      |  |  |  |  |
| K ml = 9.54%                                       | K ss = 9.54%       | D nb&sb = 40.5%    | D eb&wb = 40.5%    | K ml = 9.54%    | K ss = 9.54% | D nb&sb = 40.5%                                    | D eb&wb = 40.5% | K ml = 9.54%                                | K ss = 9.54% | D nb&sb = 40.5%       | D eb&wb = 40.5% |  |  |  |  |
| 483  | 483                | 483                | 483                | 661             | 495          | 661  | 495             | 661   | 495          | 661                   | 495             |  |  |  |  |



| PROJECT TRAFFIC FOR             |  | SR 39 - BUILD - AM  |  | @ Sam Allen Rd.   |   | Opening Day   |   | TO 2010 (From 2005 Base) |             |
|---------------------------------|--|---|--|---|---|---|---|--------------------------|-------------|
| 2005 ACTUAL TRAFFIC COMPARED TO |  | 2005 DHV  |  | 2005 ACTUAL TRAFFIC COMPARED TO   |   | 2010 DHV  |   | 2010 DHV                 |             |
| Sam Allen Rd,                   | (15) 6<br>0.38   <-- <br>(19) ^ 4  <br>(73) 46  <br>0.64 (90) ---><br>1.42 v<br>128  <br>(XXX) - Actual<br>XXX - Calculated DHV<br>X.XX - Ratio  | (354) 244 (105)<br>0.69   34<br> ---> ^<br>  v<br> ---><br>  v<br> ---> | SR 39 - BUILD - AM<br>(105)<br>34<br>0.32<br>^<br> <br>0.44<br>(72)<br>0.44<br>0.95<br>(73)<br>0.95<br>0.90<br>(90) ---><br>204<br>2.69<br>1.50 v<br>(90) ---><br>135<br>1.50 v<br>(61)  <br>135<br>1.50 v<br>(169)<br>193<br>1.14<br>X.XX - Ratio | Sam Allen Rd,<br>(15) 6<br>0.38   <-- <br>(19) ^ 4  <br>(73) 46  <br>0.64 (90) ---><br>1.42 v<br>128  <br>(XXX) - Actual<br>XXX - Calculated DHV<br>X.XX - Ratio  | (354) 284 (105)<br>0.80   51<br> ---> ^<br>  v<br> ---><br>  v<br> ---> | SR 39 - BUILD - AM<br>(105)<br>51<br>0.49<br> <br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---> | (354) 284 (105)<br>0.80   51<br> ---> ^<br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---> | TO 2010 (From 2005 Base) | TO 2010 DHV |
| Sam Allen Rd,                   | (15) 11<br>0.76   <-- <br>(19) ^ 8  <br>(73) 89  <br>1.22 (90) ---><br>1.55 v<br>139  <br>(XXX) - Actual<br>XXX - Calculated DHV<br>X.XX - Ratio | (354) 312 (105)<br>0.88   74<br> ---> ^<br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> --->   | SR 39 - BUILD - AM<br>(105)<br>74<br>0.70<br>^<br> <br>0.95<br>(72)<br>0.95<br>1.81<br>(73)<br>1.00<br>1.38<br>0.41 ---><br>131<br>1.38<br>1.55 v<br>(90) ---><br>139<br>2.54<br>(169)<br>131<br>3.55<br>X.XX - Ratio                              | Sam Allen Rd,<br>(15) 11<br>0.76   <-- <br>(19) ^ 8  <br>(73) 89  <br>1.22 (90) ---><br>1.55 v<br>139  <br>(XXX) - Actual<br>XXX - Calculated DHV<br>X.XX - Ratio | (354) 341 (105)<br>0.96   96<br> ---> ^<br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> --->   | SR 39 - BUILD - AM<br>(105)<br>96<br>0.92<br> <br> ---><br>  v<br> ---><br>  v<br> ---><br>  v<br> --->   | (354) 341 (105)<br>0.96   96<br> ---> ^<br>  v<br> ---><br>  v<br> ---><br>  v<br> --->   | TO 2010 (From 2005 Base) | TO 2010 DHV |

# DATA INPUT

Date:

|                       |
|-----------------------|
| PAP                   |
| SR 39 - BUILD - PM    |
| Sam Allen Rd.         |
| Opening Day           |
| 2010 (From 2005 Base) |
| Hillsborough          |

Analyst:  
28-Nov-98

Highway:

Intersection:

From:

To:

County:

North/South Orientation of Mainline?  
(Y/N)

D Factors:

|                  |       |                |
|------------------|-------|----------------|
| a. Mainline      | 59.5% | Northbound(NB) |
|                  | 40.5% | Southbound(SB) |
| b. Sidesreet     | 9.54% |                |
|                  | 9.54% |                |
| c. Eastbound(EB) | 40.5% | Eastbound(EB)  |
|                  | 59.5% | Westbound(WB)  |

K Factors:

|          |           |
|----------|-----------|
| Mainline | Sidesreet |
| 9.54%    | 9.54%     |

Do you have FSUTMS Model Year Traffic from which you would like to  
interpolate/extrapolate for project years? (Y/N)

Y

Manual Instr:

If Y, go to A43  
If N, go to A24

Enter Year and Growth Rates from Base Year:  
Year      Rate

| Base | Opening | Mid | Design |
|------|---------|-----|--------|
|      |         |     |        |
|      |         |     |        |
|      |         |     |        |
|      |         |     |        |

IF NO:

Enter Year and Growth Rates from Base Year:  
Year      Rate

RANGE NAMES FOR YEARS:

| Year | From West:  | From East:  | From North: | From South: | TOTAL  |
|------|-------------|-------------|-------------|-------------|--------|
| 2005 | EB Approach | WB Approach | SB Approach | NB Approach | 5,650  |
|      | 2,300       | 2,700       | 2,500       | 5,650       | 13,750 |
| 2010 |             | 2,667       | 3,083       |             | 5,933  |
|      |             |             | 3,000       |             | 14,683 |
| 2015 |             | 3,033       | 3,467       | 3,500       | 6,217  |
|      |             |             |             | 6,217       | 16,217 |
| 2020 |             | 3,406       | 3,850       | 4,000       | 6,500  |
|      |             |             |             | 6,500       | 17,750 |

AREA FOR CALCULATIONS: 1/2 OF INPUT AADT

| Year | From West:  | From East:  | From North: | From South: | TOTAL  |
|------|-------------|-------------|-------------|-------------|--------|
| 2005 | EB Approach | WB Approach | SB Approach | NB Approach | 5,650  |
|      | 2,300       | 2,700       | 2,500       | 5,650       | 13,750 |
| 2010 |             | 2,667       | 3,083       |             | 5,933  |
|      |             |             | 3,000       |             | 14,683 |
| 2015 |             | 3,033       | 3,467       | 3,500       | 6,217  |
|      |             |             |             | 6,217       | 16,217 |
| 2020 |             | 3,406       | 3,850       | 4,000       | 6,500  |
|      |             |             |             | 6,500       | 17,750 |

Enter Base Year AADTs for Volume Comparison:  
(uses growth rates to calculate other project years)

From West: From East: From North: From South: TOTAL

| Year | EB Approach | WB Approach | NB Approach | SB Approach | nbApproach | ebApproach | To East | To West | To North | To South | TOTAL  |
|------|-------------|-------------|-------------|-------------|------------|------------|---------|---------|----------|----------|--------|
| 2005 | 0           | 2,300       | 2,700       | 2,500       | 2,700      | 2,300      |         |         |          |          | 13,150 |
| 2010 | 0           | 2,667       | 3,083       | 3,000       | 3,083      | 2,667      |         |         |          |          | 14,683 |
| 2015 | 0           | 3,033       | 3,467       | 3,500       | 3,467      | 3,033      |         |         |          |          | 16,217 |
| 2020 | 0           | 3,406       | 3,850       | 4,000       | 3,850      | 3,406      |         |         |          |          | 17,750 |

# DATA INPUT

Date:

|          |                              |
|----------|------------------------------|
| Analyst: | PAP                          |
| IF YES:  | Enter Project & Model Years: |
| Base     | 2005                         |
| Opening  | 2010                         |
| Mid      | 2015                         |
| Design   | 2020                         |
| Model    | 2020                         |

28-Nov-98

Enter Base & Model Year AADTs for Interpolation:

| Base  | (EB) Approach | From East     |               | From North    |               | From South    |               | TOTAL  | 26,300 | model - base:<br>diff of vols:<br>year | 15<br>2005<br>2010<br>2015<br>2020 | 15<br>2200<br>4,600<br>5,333<br>6,067<br>6,800 | 2300<br>5,400<br>6,167<br>7,000<br>7,700 | 3000<br>5,000<br>6,000<br>7,000<br>8,000 | SB<br>NB |
|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--------|--|------------------------------------|--|--|--|----------|
|       |               | (WB) Approach | (SB) Approach | (WB) Approach | (SB) Approach | (WB) Approach | (SB) Approach |        |        |  |                                    |  |  |  |          |
| 2005  | 4,600         | 5,400         | 5,000         | 11,300        | 11,300        | 26,300        | 26,300        | 26,300 | 26,300 | 26,300                                 | 2005                               | 4,600  | 5,400                                    | 5,000                                    | 11,300   |
| Model | 2020          | 6,800         | 7,700         | 8,000         | 13,000        | 35,500        | 35,500        | 35,500 | 35,500 | 35,500                                 | 2010                               | 5,333  | 6,167                                    | 6,000                                    | 11,867   |

AREA FOR CALCULATION: INTERPOLATION

Enter Base & Model Year AADTs for Interpolation:

| Base  | (EB) Approach | From East     |               | From North    |               | From South    |               | TOTAL  | 26,300 | model - base:<br>diff of vols:<br>year | 15<br>2005<br>2010<br>2015<br>2020 | 15<br>2200<br>4,600<br>5,333<br>6,067<br>6,800 | 2300<br>5,400<br>6,167<br>7,000<br>7,700 | 3000<br>5,000<br>6,000<br>7,000<br>8,000 | SB<br>NB |
|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--------|--|------------------------------------|--|--|--|----------|
|       |               | (WB) Approach | (SB) Approach | (WB) Approach | (SB) Approach | (WB) Approach | (SB) Approach |        |        |  |                                    |  |  |  |          |
| 2005  | 4,600         | 5,400         | 5,000         | 11,300        | 11,300        | 26,300        | 26,300        | 26,300 | 26,300 | 26,300                                 | 2005                               | 4,600  | 5,400                                    | 5,000                                    | 11,300   |
| Model | 2020          | 6,800         | 7,700         | 8,000         | 13,000        | 35,500        | 35,500        | 35,500 | 35,500 | 35,500                                 | 2010                               | 5,333  | 6,167                                    | 6,000                                    | 11,867   |

Enter "1st Guess" Turning Percentage for AADT Balancing:

|           |        |      |        |      |        |      |        |      |
|-----------|--------|------|--------|------|--------|------|--------|------|
| (EB THRU) | W-to-E | 0.41 | W-to-E | 0.11 | W-to-N | 0.48 | W-to-S | 0.48 |
| (EB LT)   | W-to-N | 0.11 | W-to-N | 0.11 | W-to-S | 0.11 | W-to-S | 0.11 |
| (EB RT)   | W-to-S | 0.48 | W-to-S | 0.48 | W-to-E | 0.48 | W-to-E | 0.48 |

|           |        |      |        |      |        |      |        |      |
|-----------|--------|------|--------|------|--------|------|--------|------|
| (WB THRU) | E-to-W | 0.28 | E-to-W | 0.45 | E-to-N | 0.27 | E-to-S | 0.27 |
| (WB RT)   | E-to-N | 0.45 | E-to-N | 0.45 | E-to-W | 0.45 | E-to-W | 0.45 |
| (WB LT)   | E-to-S | 0.27 | E-to-S | 0.27 | E-to-N | 0.27 | E-to-N | 0.27 |

|           |        |      |        |      |        |      |        |      |
|-----------|--------|------|--------|------|--------|------|--------|------|
| (SB RT)   | N-to-W | 0.03 | N-to-W | 0.03 | N-to-E | 0.20 | N-to-E | 0.20 |
| (SB LT)   | N-to-E | 0.20 | N-to-E | 0.20 | N-to-W | 0.20 | N-to-W | 0.20 |
| (SB THRU) | N-to-S | 0.77 | N-to-S | 0.77 | N-to-E | 0.23 | N-to-E | 0.23 |

|           |        |      |        |      |        |      |        |      |
|-----------|--------|------|--------|------|--------|------|--------|------|
| (NB LT)   | S-to-W | 0.17 | S-to-W | 0.17 | S-to-E | 0.18 | S-to-E | 0.18 |
| (NB RT)   | S-to-E | 0.18 | S-to-E | 0.18 | S-to-W | 0.18 | S-to-W | 0.18 |
| (NB THRU) | S-to-N | 0.65 | S-to-N | 0.65 | S-to-E | 0.31 | S-to-E | 0.31 |

Desired Closure: 0.010

Actual/Counted Traffic:

|      |    |
|------|----|
| 2005 | 58 |
| 2010 | 16 |
| 2015 | 67 |

|      |    |
|------|----|
| 2005 | 58 |
| 2010 | 93 |
| 2015 | 56 |

56

10  
62  
237

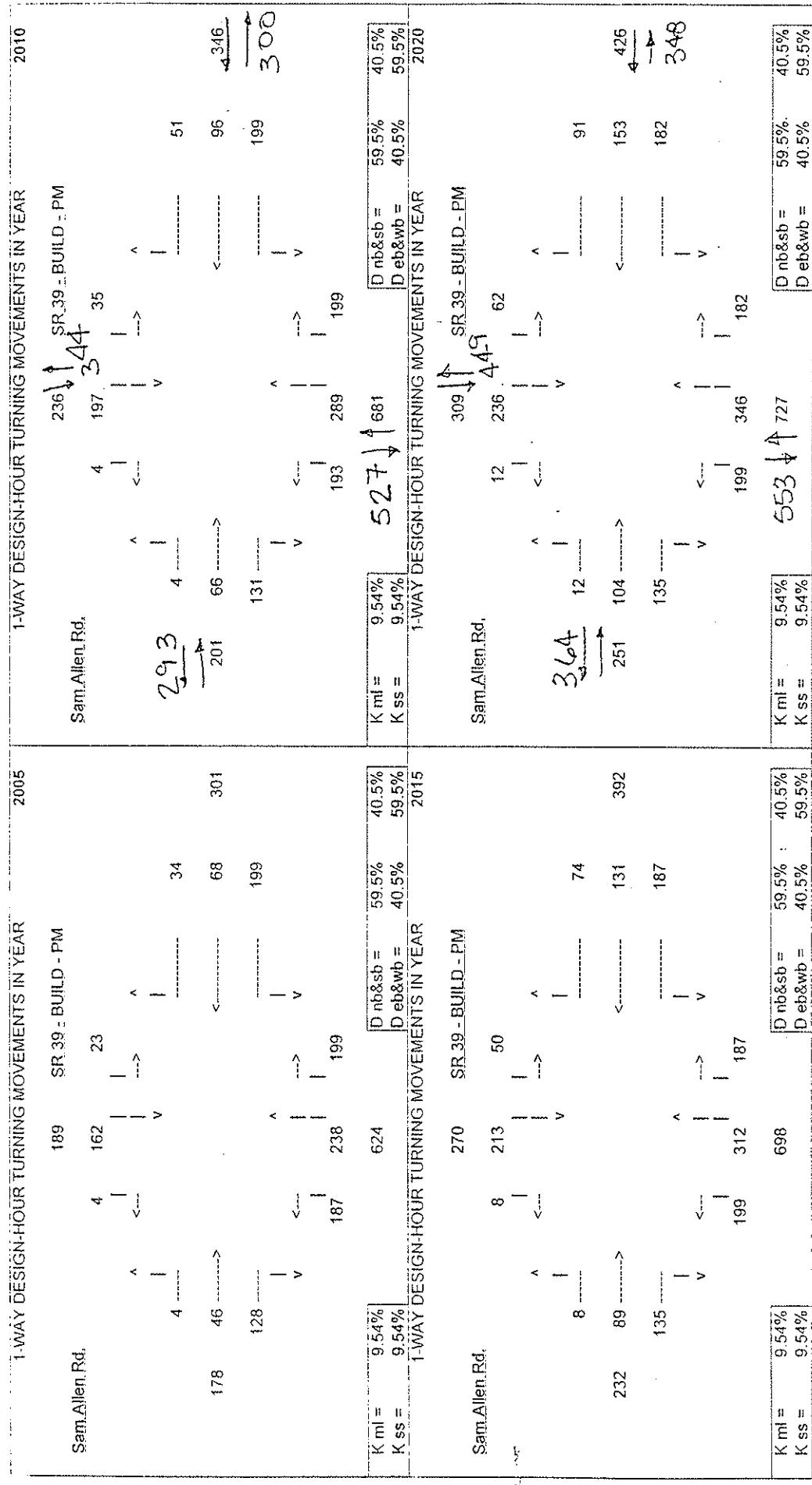
10  
62  
237

10  
62  
237

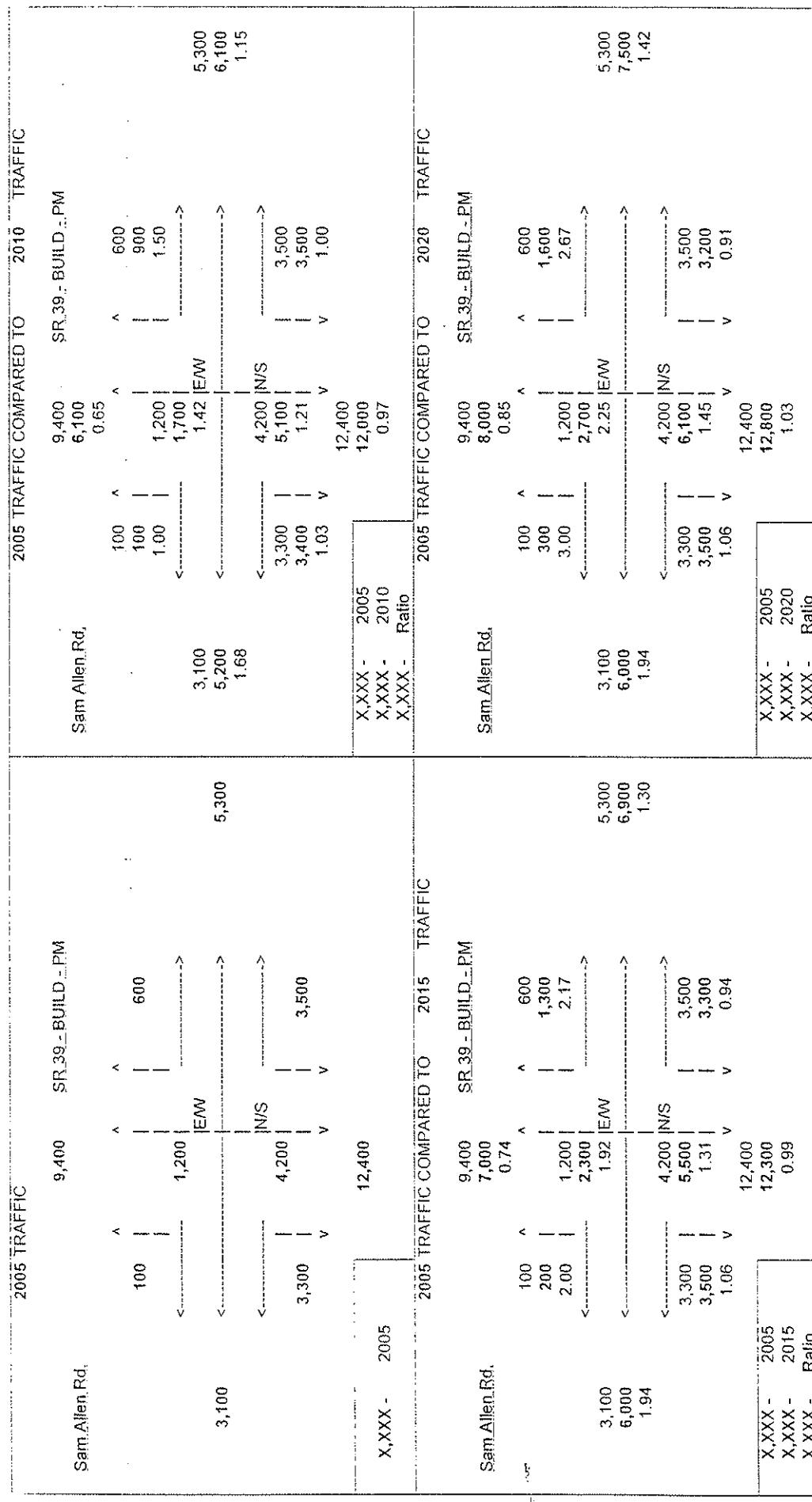
PROJECT TRAFFIC FOR : SR 39 - BUILD - PM @ Sam Allen Rd., TO 2010 (From 2005 Base)

| 2-WAY AADT TURNING MOVEMENTS IN YEAR |             |     |       |   |                    |     |       |       |       | 2-WAY AADT TURNING MOVEMENTS IN YEAR |       |             |        |        |        |                    |               |               |     | 2-WAY AADT TURNING MOVEMENTS IN YEAR |     |       |                    |                    |               |                    |       |     |     |      |  |  |  |  |
|--------------------------------------|-------------|-----|-------|---|--------------------|-----|-------|-------|-------|--------------------------------------|-------|-------------|--------|--------|--------|--------------------|---------------|---------------|-----|--------------------------------------|-----|-------|--------------------|--------------------|---------------|--------------------|-------|-----|-----|------|--|--|--|--|
| 2005                                 |             |     |       |   | SR 39 - BUILD - PM |     |       |       |       | Sam Allen Rd.                        |       |             |        |        | 2010   |                    |               |               |     | SR 39 - BUILD - PM                   |     |       |                    |                    | Sam Allen Rd. |                    |       |     |     | 2010 |  |  |  |  |
| Sam Allen.Rd.                        | 30          | 1%  | 9,400 | A | 2,400              | 9%  | 219   | A     | 3,100 | Sam Allen.Rd.                        | 56    | 2%          | 86%    | A      | 3,100  | SR 39 - BUILD - PM | 6,100         | 13%           | 391 | Sam Allen.Rd.                        | 56  | 2%    | 86%                | A                  | 3,100         | SR 39 - BUILD - PM | 6,100 | 13% | 391 |      |  |  |  |  |
| 46                                   | 100         |     | 2,200 |   | 600                |     | 332   |       | 78    | 100                                  |       | 2,700       |        | 900    |        | 900                | Sam Allen.Rd. | 56            | 2%  | 86%                                  | A   | 3,100 | SR 39 - BUILD - PM | 6,100              | 13%           | 391                |       |     |     |      |  |  |  |  |
| 2% <----->                           | 600         |     | 1,200 |   | 600                |     | 13%   |       | 3%    | <----->                              | 800   |             | E/W    |        | 900    |                    | 900           | Sam Allen.Rd. | 56  | 2%                                   | 86% | A     | 3,100              | SR 39 - BUILD - PM | 6,100         | 13%                | 391   |     |     |      |  |  |  |  |
| 2,300                                | 25% <-----> | N/S | 4,200 |   | 5,300              |     | 24%   | 2,600 | 2,600 | 32% <----->                          | 800   |             | N/S    |        | 900    |                    | 900           | Sam Allen.Rd. | 56  | 2%                                   | 86% | A     | 3,100              | SR 39 - BUILD - PM | 6,100         | 13%                | 391   |     |     |      |  |  |  |  |
| 3,100                                | 73% <-----> |     | 2,100 |   | 3,500              |     | 64%   | 1,657 | 5,200 | 65% <----->                          | 5,100 |             | N/S    |        | 900    |                    | 900           | Sam Allen.Rd. | 56  | 2%                                   | 86% | A     | 3,100              | SR 39 - BUILD - PM | 6,100         | 13%                | 391   |     |     |      |  |  |  |  |
| 1,688                                | 3,300       | V   | 2,100 | V | 3,500              | V   | 1,657 | 1,699 | 3,400 | V                                    | 2,400 | V           | 2,400  | V      | 3,500  | V                  | 3,500         | Sam Allen.Rd. | 56  | 2%                                   | 86% | A     | 3,100              | SR 39 - BUILD - PM | 6,100         | 13%                | 391   |     |     |      |  |  |  |  |
| 1,620                                | 29%         | V   | 2,100 | V | 3,500              | V   | 34%   | 1,890 | 1,713 | 29%                                  | 40%   | V           | 12,000 | V      | 12,000 | V                  | 12,000        | Sam Allen.Rd. | 56  | 2%                                   | 86% | A     | 3,100              | SR 39 - BUILD - PM | 6,100         | 13%                | 391   |     |     |      |  |  |  |  |
| 5,600                                | 12,400      | V   | 5,600 | V | 5,600              | V   | 5,600 | 5,600 | 5,600 | 6,000                                | 6,000 | 6,000       | 6,000  | 6,000  | 6,000  | 6,000              | 6,000         | Sam Allen.Rd. | 56  | 2%                                   | 86% | A     | 3,100              | SR 39 - BUILD - PM | 6,100         | 13%                | 391   |     |     |      |  |  |  |  |
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |             |     |       |   |                    |     |       |       |       | 2-WAY AADT TURNING MOVEMENTS IN YEAR |       |             |        |        |        |                    |               |               |     | 2-WAY AADT TURNING MOVEMENTS IN YEAR |     |       |                    |                    |               |                    |       |     |     |      |  |  |  |  |
| 2015                                 |             |     |       |   | SR 39 - BUILD - PM |     |       |       |       | Sam Allen Rd.                        |       |             |        |        | 2020   |                    |               |               |     | SR 39 - BUILD - PM                   |     |       |                    |                    | Sam Allen Rd. |                    |       |     |     | 2020 |  |  |  |  |
| Sam Allen.Rd.                        | 83          | 2%  | 7,000 | A | 3,500              | 82% | 540   | A     | 117   | Sam Allen.Rd.                        | 117   | 3%          | 79%    | A      | 4,000  | SR 39 - BUILD - PM | 8,000         | 18%           | 709 | Sam Allen.Rd.                        | 117 | 3%    | 79%                | A                  | 4,000         | SR 39 - BUILD - PM | 8,000 | 18% | 709 |      |  |  |  |  |
| 119                                  | 200         |     | 2,900 |   | 1,300              |     | 730   |       | 151   | 300                                  |       | 3,200       |        | 1,600  |        | 1,600              | Sam Allen.Rd. | 117           | 3%  | 79%                                  | A   | 4,000 | SR 39 - BUILD - PM | 8,000              | 18%           | 709                |       |     |     |      |  |  |  |  |
| 4% <----->                           | 1,100       |     | 2,300 |   | 1,200              |     | 21%   |       | 5%    | <----->                              | 1,200 |             | E/W    |        | 1,400  |                    | 1,400         | Sam Allen.Rd. | 117 | 3%                                   | 79% | A     | 4,000              | SR 39 - BUILD - PM | 8,000         | 18%                | 709   |     |     |      |  |  |  |  |
| 3,000                                | 37% <-----> | N/S | 5,500 |   | 3,400              |     | 34%   | 6,900 | 3,100 | 40% <----->                          | 6,000 | 55% <-----> | N/S    |        | 6,100  |                    | 6,100         | Sam Allen.Rd. | 117 | 3%                                   | 79% | A     | 4,000              | SR 39 - BUILD - PM | 8,000         | 18%                | 709   |     |     |      |  |  |  |  |
| 6,000                                | 59% <-----> |     | 2,600 |   | 3,300              |     | 44%   |       | 1,699 | 3,500                                |       | 2,900       |        | 3,200  |        | 3,200              | Sam Allen.Rd. | 117           | 3%  | 79%                                  | A   | 4,000 | SR 39 - BUILD - PM | 8,000              | 18%           | 709                |       |     |     |      |  |  |  |  |
| 1,782                                | 3,500       | V   | 2,600 | V | 3,300              | V   | 1,508 | V     | 1,843 | 28%                                  | V     | 12,800      | V      | 12,800 | V      | 12,800             | Sam Allen.Rd. | 117           | 3%  | 79%                                  | A   | 4,000 | SR 39 - BUILD - PM | 8,000              | 18%           | 709                |       |     |     |      |  |  |  |  |
| 1,760                                | 28%         | V   | 2,600 | V | 3,300              | V   | 1,811 | V     | 1,770 | 27%                                  | V     | 6,200       | V      | 6,500  | V      | 6,500              | Sam Allen.Rd. | 117           | 3%  | 79%                                  | A   | 4,000 | SR 39 - BUILD - PM | 8,000              | 18%           | 709                |       |     |     |      |  |  |  |  |

PROJECT TRAFFIC FOR : SR 39 - BUILD - PM @ Sam Allen Rd., Opening Day TO 2010 (From 2005 Base)



PROJECT TRAFFIC FOR : SR 39 - BUILD - PM : TO : 2010 (from 2005 Base) : Opening Day @ : Sam Allen Rd.



**PROJECT TRAFFIC FOR SR 39 - BUILD - PM @ Sam Allen Rd.**

|                      |       | 2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV |                    | 2005 ACTUAL TRAFFIC COMPARED TO 2010 DHV |       | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |                    |
|----------------------|-------|--|--------------------|--|-------|--|--------------------|
| Sam Allen Rd.        | (10)  | (237)                                    | SR 39 - BUILD - PM | Sam Allen Rd.                            | (10)  | (237)                                    | SR 39 - BUILD - PM |
| 4                    | 162   | (62)                                     |                    | 4  | 197   | (62)                                     |                    |
| 0.68                 | 23    |  |                    | 0.83                                     | 0.83  |  |                    |
|                      |       |  |                    |  |       |  |                    |
| (16)                 | ^     | --->                                     | ^                  | (16)                                     | ^     | --->                                     | ^                  |
| 4                    | 0.39  | v  |                    | 4  | 0.39  | v  | 0.56               |
| 0.24                 |       |  |                    | 0.24                                     |       |  |                    |
| (58)                 |       |  |                    | (58)                                     |       |  |                    |
| 46                   |       |  |                    | 68                                       |       |  |                    |
| 0.80                 | (67)  |  |                    | 1.13                                     |       |  |                    |
| 128                  | 1     |  |                    | (67)                                     |       |  |                    |
| 1.90                 | v     | <---                                     |                    | 131                                      |       |  |                    |
| (79)                 |       |  |                    | 1.96                                     | v     |  |                    |
| 187                  | (312) |  |                    | (79)                                     |       |  |                    |
| 2.37                 | 238   |  |                    | 193                                      | (312) |  |                    |
| (XXX) - Actual       |       |  |                    | 199                                      | 199   |  |                    |
| XXX - Calculated DHV |       |  |                    | 2.44                                     | 289   |  |                    |
| X.XX - Ratio         | 0.76  |  |                    | 0.93                                     |       |  |                    |
|                      |       | 2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV |                    | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |       | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |                    |
| Sam Allen Rd.        | (10)  | (237)                                    | SR 39 - BUILD - PM | Sam Allen Rd.                            | (10)  | (237)                                    | SR 39 - BUILD - PM |
| 8                    | 213   | (62)                                     |                    | 12                                       | 236   | (62)                                     |                    |
| 0.90                 | 50    |  |                    | 1.16                                     | 0.99  |  |                    |
|                      |       |  |                    |  |       |  |                    |
| (16)                 | ^     | --->                                     | ^                  | (16)                                     | ^     | --->                                     | ^                  |
| 8                    | 0.77  | v  |                    | 12                                       | 1.00  | v  | 0.93               |
| 0.48                 |       |  |                    | 0.72                                     |       |  |                    |
| (58)                 |       |  |                    | (58)                                     |       |  |                    |
| 89                   |       |  |                    | 131                                      | 104   |  |                    |
| 1.53                 | (67)  |  |                    | 2.21                                     | 1.80  |  |                    |
| 135                  | 1     |  |                    | (67)                                     |       |  |                    |
| 2.02                 | v     | <---                                     |                    | 135                                      |       |  |                    |
| (79)                 |       |  |                    | 2.02                                     | v     |  |                    |
| 199                  | (312) |  |                    | (79)                                     |       |  |                    |
| 2.51                 | 312   |  |                    | 199                                      | (312) |  |                    |
| (XXX) - Actual       |       |  |                    | 2.51                                     | 346   |  |                    |
| XXX - Calculated DHV |       |  |                    | 1.11                                     |       |  |                    |
| X.XX - Ratio         | 1.00  |  |                    |  |       |  |                    |

## DATA INPUT

Date:

30-Nov-98

Analyst: PAP  
 Highway: SR 39 - Build - AM  
 Intersection: Knights Griffin Rd.  
 From: Opening Day  
 To: 2010 (From 2005 Base)  
 County: Hillsborough

North/South Orientation of Mainline?  
 Y  
 N

D Factors:

|            |          |            |
|------------|----------|------------|
| K Factors: | Mainline | Sidestreet |
|            | 9.54%    | 9.54%      |

a. Mainline

|               |                |
|---------------|----------------|
| 40.5%         | Northbound(NB) |
| 59.5%         | Southbound(SB) |
| b. Sidestreet |                |
| 40.5%         | Eastbound(EB)  |
| 59.5%         | Westbound(WB)  |

Do you have FSUTMS Model Year Traffic from which you would like to  
 interpolate/extrapolate for project years? (Y/N)

Y  
 N  
 Manual Instr:  
 If Y, go to A43  
 If N, go to A24

IF NO: Enter Year and Growth Rates from Base Year:

|         |      |
|---------|------|
| Year    | Rate |
| Base    |      |
| Opening |      |
| Mid     |      |
| Design  |      |

Enter Base Year ADTs for Volume Comparison:  
 (uses growth rates to calculate other project years)

| Year | From West:  |             |             | From East: |       |       | From North: |       |       | From South: |        |        | To North |        |        | To South |        |        | TOTAL |        |        |
|------|-------------|-------------|-------------|------------|-------|-------|-------------|-------|-------|-------------|--------|--------|----------|--------|--------|----------|--------|--------|-------|--------|--------|
|      | EB Approach | WB Approach | SB Approach |            |       |       |             |       |       |             |        |        |          |        |        |          |        |        |       |        |        |
| 2005 | 0           | 0           | 0           | 0          | 2,050 | 1,950 | 0           | 6,000 | 6,000 | 0           | 6,000  | 6,000  | 0        | 6,000  | 6,000  | 0        | 6,000  | 6,000  | 0     | 16,600 | 16,600 |
| 2010 | 0           | 0           | 0           | 0          | 2,333 | 2,233 | 0           | 7,167 | 7,167 | 0           | 7,883  | 7,883  | 0        | 9,167  | 9,167  | 0        | 9,167  | 9,167  | 0     | 19,616 | 19,616 |
| 2015 | 0           | 0           | 0           | 0          | 2,617 | 2,517 | 0           | 8,333 | 8,333 | 0           | 9,167  | 9,167  | 0        | 9,167  | 9,167  | 0        | 9,167  | 9,167  | 0     | 22,634 | 22,634 |
| 2020 | 0           | 0           | 0           | 0          | 2,900 | 2,800 | 0           | 9,500 | 9,500 | 0           | 10,450 | 10,450 | 0        | 10,450 | 10,450 | 0        | 10,450 | 10,450 | 0     | 25,650 | 25,650 |

| Year | From West:  |             |             | From East: |   |   | From North: |   |   | From South: |   |   | TOTAL |   |   | TOTAL |   |   |   |
|------|-------------|-------------|-------------|------------|---|---|-------------|---|---|-------------|---|---|-------|---|---|-------|---|---|---|
|      | EB Approach | WB Approach | SB Approach |            |   |   |             |   |   |             |   |   |       |   |   |       |   |   |   |
| 2005 | 0           | 0           | 0           | 0          | 0 | 0 | 0           | 0 | 0 | 0           | 0 | 0 | 0     | 0 | 0 | 0     | 0 | 0 | 0 |
| 2010 | 0           | 0           | 0           | 0          | 0 | 0 | 0           | 0 | 0 | 0           | 0 | 0 | 0     | 0 | 0 | 0     | 0 | 0 | 0 |
| 2015 | 0           | 0           | 0           | 0          | 0 | 0 | 0           | 0 | 0 | 0           | 0 | 0 | 0     | 0 | 0 | 0     | 0 | 0 | 0 |
| 2020 | 0           | 0           | 0           | 0          | 0 | 0 | 0           | 0 | 0 | 0           | 0 | 0 | 0     | 0 | 0 | 0     | 0 | 0 | 0 |

# DATA INPUT

Date:

30-Nov-98

Analyst: PAP

|         |                              |
|---------|------------------------------|
| IF YES: | Enter Project & Model Years: |
|         | Base 2005                    |
|         | Opening 2010                 |
|         | Mid 2015                     |
|         | Design 2020                  |
|         | Model 2020                   |

Enter Base & Model Year AADTs for Interpolation:

| Base Model | From West     |               | From East     |               | From North    |               | From South    |               | TOTAL  |        | Year   | Interpolation |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--------|--------|---------------|
|            | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach | (EB)   | (WB)   | (SB)   | (NB)          |
| 2005       | 4,100         | 3,900         | 12,000        | 13,200        | 3,900         | 4,100         | 3,900         | 4,100         | 1700   | 1700   | 7000   | 7700          |
| 2020       | 5,800         | 5,600         | 19,000        | 20,900        | 5,600         | 5,800         | 5,600         | 5,800         | 19,000 | 19,000 | 51,900 | 51,300        |

AREA FOR CALCULATION : INTERPOLATION

| model - base: | 15 | 1700 | 1700 | WB | 7000 | NB | 7700 |
|---------------|----|------|------|----|------|----|------|
| diff of vols: |    |      |      |    |      |    |      |
| year          |    |      |      |    |      |    |      |
| 2005          |    |      |      |    |      |    |      |
| 2010          |    |      |      |    |      |    |      |
| 2015          |    |      |      |    |      |    |      |
| 2020          |    |      |      |    |      |    |      |

Enter "1st Guess" Turning  
Percentages for AADT Balancing:

|           |        |      |
|-----------|--------|------|
| (EB THRU) | W-to-E | 0.44 |
| (EB LT)   | W-to-N | 0.15 |
| (EB RT)   | W-to-S | 0.41 |

|           |        |      |
|-----------|--------|------|
| (WB THRU) | E-to-W | 0.51 |
| (WB RT)   | E-to-N | 0.30 |
| (WB LT)   | E-to-S | 0.19 |

|           |        |      |
|-----------|--------|------|
| (SB RT)   | N-to-W | 0.12 |
| (SB LT)   | N-to-E | 0.16 |
| (SB THRU) | N-to-S | 0.72 |

|           |        |      |
|-----------|--------|------|
| (NB LT)   | S-to-W | 0.28 |
| (NB RT)   | S-to-E | 0.11 |
| (NB THRU) | S-to-N | 0.61 |

Desired Closure: 0.010

Actual/Counted Traffic:

|      |        |    |
|------|--------|----|
| 2005 | W-to-E | 63 |
|      | W-to-N | 21 |
|      | W-to-S | 58 |

|      |        |     |
|------|--------|-----|
| 2005 | E-to-W | 137 |
|      | E-to-N | 78  |
|      | E-to-S | 49  |

|      |        |     |
|------|--------|-----|
| 2005 | N-to-W | 46  |
|      | N-to-E | 61  |
|      | N-to-S | 280 |

|      |        |     |
|------|--------|-----|
| 2005 | S-to-W | 60  |
|      | S-to-E | 25  |
|      | S-to-N | 133 |

## PROJECT TRAFFIC FOR SR 39 - Build - AM

@ Knights Griffin Rd. Opening Day TO 2010 (From 2005 Base)

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

|                     |       | 2005                                 |          | 2010                                 |        |
|---------------------|-------|--------------------------------------|----------|--------------------------------------|--------|
|                     |       | 2-WAY AADT TURNING MOVEMENTS IN YEAR |          | 2-WAY AADT TURNING MOVEMENTS IN YEAR |        |
| Knights Griffin Rd. | 6,000 | SR,39_-Build_-AM                     |          | Knights Griffin Rd.                  | 7,200  |
| 345                 | 6%    | 8,000                                | 11%<br>^ | 393                                  | 14,500 |
| 323                 | 700   | 5,000                                | 1,400    | 370                                  | 800    |
| 16% <               | 700   | E/W                                  |          | 16% <                                | 6,000  |
| 2,000               | 33% < | 600                                  |          | 700                                  | 1,400  |
| 4,100               | 51% < | N/S                                  |          |                                      | E/W    |
| 1,021               | 2,100 | 9,900                                |          |                                      | 1,400  |
| 1,081               | 16%   | 4,900                                | 1,200    | 2,300                                | 700    |
|                     | v     | v                                    | v        | 32%                                  | >      |
|                     | 74%   | 9%                                   | 9%       | 29%                                  | 39%    |
|                     | 9,400 | 6,600                                | 6,600    | 4,600                                | 4,500  |

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

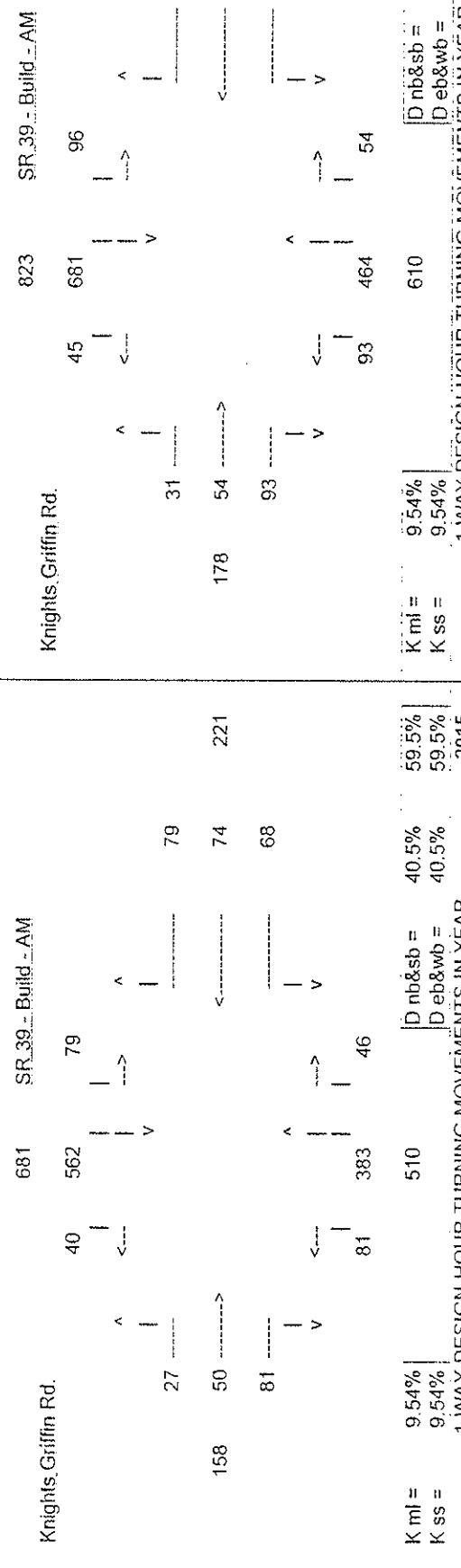
|                     |        | 2015                                 |          | 2020                                 |        |
|---------------------|--------|--------------------------------------|----------|--------------------------------------|--------|
|                     |        | 2-WAY AADT TURNING MOVEMENTS IN YEAR |          | 2-WAY AADT TURNING MOVEMENTS IN YEAR |        |
| Knights Griffin Rd. | 8,300  | SR,39_-Build_-AM                     |          | Knights Griffin Rd.                  | 9,600  |
| 435                 | 5%     | 16,700                               | 10%<br>^ | 488                                  | 16,500 |
| 417                 | 900    | 7,000                                | 1,900    | 464                                  | 8,500  |
| 16% <               | 800    | E/W                                  |          | 16% <                                | 8,100  |
| 2,600               | 31% <  | 800                                  |          | 900                                  | 1,700  |
| 5,300               | 53% <  | N/S                                  |          | 2,900                                | 5,800  |
| 1,368               | 2,800  | 13,900                               |          | 30%                                  | 5,300  |
| 1,410               | 15%    | 6,900                                | 1,600    | 31%                                  | 16,000 |
|                     | v      | v                                    | v        | 30%                                  | >      |
|                     | 75%    | 9%                                   | 9%       | 1,541                                | 1,800  |
|                     | 18,300 | 824                                  | 824      | 1,582                                | 1,582  |
|                     | 9,100  |                                      |          | 18,800                               | 18,800 |
|                     |        |                                      |          | 10,400                               | 10,400 |

## PROJECT TRAFFIC FOR SR 39 - Build - AM

@ Knights Griffin Rd.

Opening Day TO 2010 (From 2005 Base)

## 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR



## PROJECT TRAFFIC FOR

SR 39 - Build - AM

## @ Knights Griffin Rd.

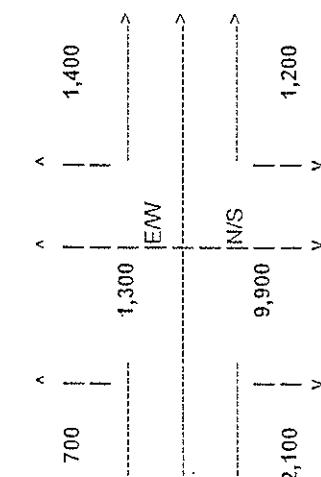
2010 (From 2005 Base)

## 2005 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.

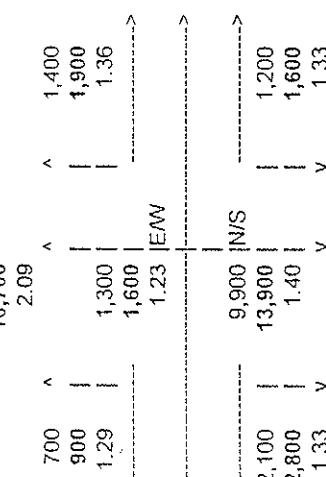


## 2005 TRAFFIC COMPARED TO 2015 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.

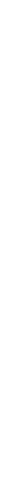


## 2005 TRAFFIC COMPARED TO 2010 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.



## 2005 TRAFFIC COMPARED TO 2010 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.



## 2005 TRAFFIC COMPARED TO 2010 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.

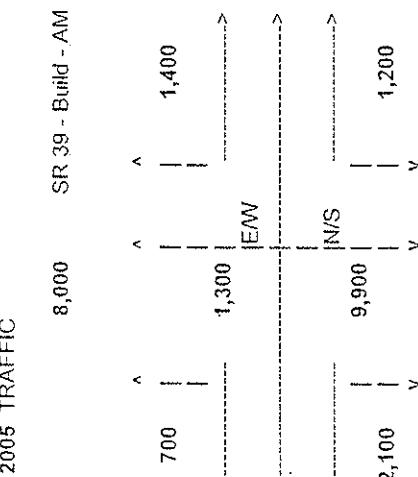


## 2005 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.

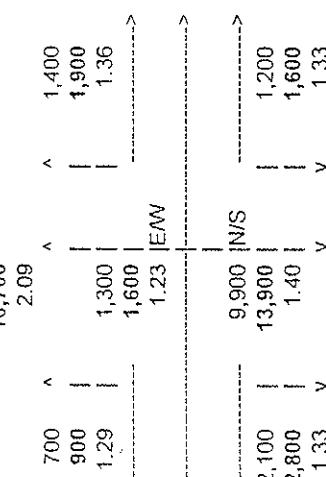


## 2005 TRAFFIC COMPARED TO 2015 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.



## 2005 TRAFFIC COMPARED TO 2010 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.



## 2005 TRAFFIC COMPARED TO 2010 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.

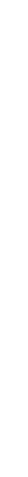


## 2005 TRAFFIC COMPARED TO 2010 TRAFFIC

8,000

SR 39 - Build - AM

Knights Griffin Rd.



PROJECT TRAFFIC FOR SR 39 - Build - AM @ Knights Griffin Rd. : Opening Day TO 2010 (From 2005 Base)

| 2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV |  |  |  |  |  |  |  |  |  | 2005 ACTUAL TRAFFIC COMPARED TO 2010 DHV |  |  |  |  |  |  |  |  |  |  |                    |                        |              |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|------------------------|--------------|
| Knights Griffin Rd.                      |  |  |  |  | SR 39 - Build - AM                       |  |  |  |  | Knights Griffin Rd.                      |  |  |  |  | SR 39 - Build - AM                       |  |  |  |  |  |                    |                        |              |
| (46) 40                                  | (280) 562                                | SR 39 - Build - AM                       | (46) 45                                  | (280) 681                                | SR 39 - Build - AM                       | (46) 45                                  | (280) 681                                | SR 39 - Build - AM                       | (46) 45                                  | (280) 681                                | SR 39 - Build - AM                       | (46) 45                                  | (280) 681                                | SR 39 - Build - AM                       | (46) 45                                  | (280) 681                                | SR 39 - Build - AM                       | (46) 45                                  | (280) 681                                | SR 39 - Build - AM                       |                    |                        |              |
| 0.86   <--                               | 2.01                                     | 1.30   -->                               | 0.99   <--                               | 1.30                                     | 1.30   -->                               | 0.99   <--                               | 1.30                                     | 1.30   -->                               | 0.99   <--                               | 1.30                                     | 1.30   -->                               | 0.99   <--                               | 1.30                                     | 1.30   -->                               | 0.99   <--                               | 1.30                                     | 1.30   -->                               | 0.99   <--                               | 1.30                                     | 1.30   -->                               |                    |                        |              |
| (21) ^ 27                                |  | v  | ^  |  | v  | ^  |  | v  | ^  |  | v  | ^  |  | v  | ^  |  | v  | ^  |  | v  | ^                  |                        |              |
| 1.29 -----                               | (63) 50                                  | ----->                                   | -----                                    | (63) 50                                  | ----->                                   | -----                                    | (63) 50                                  | ----->                                   | (63) 50                                  | ----->                                   | -----                                    | (63) 50                                  | ----->                                   | -----                                    | (63) 50                                  | ----->                                   | -----                                    | (63) 50                                  | ----->                                   | -----                                    | (63) 50            | ----->                 |              |
| (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80                                     | (58) -----                               | 0.80               |                        |              |
| 81                                       | 1.40 v                                   | <--                                      | ^  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |                        |              |
| (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual     | (XXX) - Calculated DHV | X.XX - Ratio |
| 1.35                                     | 2.88                                     | 1.35                                     | 1.33                                     | 46                                       | 1.85                                     | 1.35                                     | 383                                      | 46                                       | 1.39                                     | 1.39                                     | 1.35                                     | 1.35                                     | 1.35                                     | 1.35                                     | 1.35                                     | 1.35                                     | 1.35                                     | 1.35                                     | 1.35                                     | 1.35                                     | 1.35               | 1.35                   |              |
| 2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV |                    |                        |              |
| Knights Griffin Rd.                      | (46) 51                                  | (280) 789                                | SR 39 - Build - AM                       | (46) 51                                  | (280) 789                                | SR 39 - Build - AM                       | (46) 51                                  | (280) 789                                | SR 39 - Build - AM                       | (46) 51                                  | (280) 789                                | SR 39 - Build - AM                       | (46) 51                                  | (280) 789                                | SR 39 - Build - AM                       | (46) 51                                  | (280) 789                                | SR 39 - Build - AM                       | (46) 51                                  | (280) 789                                | SR 39 - Build - AM |                        |              |
| 1.11   <--                               | 2.82                                     | 1.77   -->                               | 1.11   <--                               | 2.82                                     | 1.77   -->                               | 1.11   <--                               | 2.82                                     | 1.77   -->                               | 1.11   <--                               | 2.82                                     | 1.77   -->                               | 1.11   <--                               | 2.82                                     | 1.77   -->                               | 1.11   <--                               | 2.82                                     | 1.77   -->                               | 1.11   <--                               | 2.82                                     | 1.77   -->                               |                    |                        |              |
| (21) ^ 35                                |  | v  | ^  |  | v  | ^  |  | v  | ^  |  | v  | ^  |  | v  | ^  |  | v  | ^  |  | v  | ^                  |                        |              |
| 1.66 -----                               | (63) 62                                  | ----->                                   | -----                                    | (63) 62                                  | ----->                                   | -----                                    | (63) 62                                  | ----->                                   | (63) 62                                  | ----->                                   | -----                                    | (63) 62                                  | ----->                                   | -----                                    | (63) 62                                  | ----->                                   | -----                                    | (63) 62                                  | ----->                                   | -----                                    | (63) 62            | ----->                 |              |
| (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98                                     | (58) -----                               | 0.98               |                        |              |
| 108                                      | 1.87 v                                   | <--                                      | ^  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |                        |              |
| (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual                           | (XXX) - Calculated DHV                   | X.XX - Ratio                             | (XXX) - Actual     | (XXX) - Calculated DHV | X.XX - Ratio |
| 1.80                                     | 4.04                                     | 1.80                                     | 1.33                                     | 62                                       | 2.47                                     | 1.80                                     | 1.08                                     | 537                                      | 62                                       | 2.47                                     | 1.80                                     | 1.08                                     | 537                                      | 62                                       | 2.47                                     | 1.80                                     | 1.08                                     | 537                                      | 62                                       | 2.47                                     | 1.80               | 1.08                   |              |

## DATA INPUT

Date:

Analyst: PAP Date: 30-Nov-98

Highway: SR 39 - Build - PM  
 Intersection: Knights Griffin Rd.  
 From: Opening Day  
 To: 2010 (From 2005 Base)  
 County: Hillsborough

North/South Orientation of Mainline? [Y/N] [Y]

K Factors:  
 Mainline 9.54% Sidestreet 9.54%

D Factors:

|               |       |                |
|---------------|-------|----------------|
| a. Mainline   | 59.5% | Northbound(NB) |
|               | 40.5% | Southbound(SB) |
| b. Sidestreet | 59.5% | Eastbound(EB)  |
|               | 40.5% | Westbound(WB)  |

Do you have FSUTMS Model Year Traffic from which you would like to interpolate/extrapolate for project years? (Y/N) [Y]

IF NO: Enter Year and Growth Rates from Base Year:  
 Year Rate

|         |  |
|---------|--|
| Base    |  |
| Opening |  |
| Mid     |  |
| Design  |  |

Enter Base Year AADTs for Volume Comparison:  
 (uses growth rates to calculate other project years)

| Year | From West:  |             |       | To East:   |            |            | From North: |          |          | To South:  |            |        |
|------|-------------|-------------|-------|------------|------------|------------|-------------|----------|----------|------------|------------|--------|
|      | EB Approach | WB Approach | TOTAL | wbApproach | ebApproach | nbApproach | From South: | To North | To South | sbApproach | nbApproach | TOTAL  |
| 2005 | 0           | 0           | 0     | 2,050      | 1,950      | 6,000      | 6,600       | 6,600    | 6,600    | 6,600      | 6,600      | 16,600 |
| 2010 | 0           | 0           | 0     | 2,333      | 2,233      | 7,167      | 7,883       | 7,883    | 7,883    | 7,883      | 7,883      | 19,616 |
| 2015 | 0           | 0           | 0     | 2,617      | 2,517      | 8,333      | 9,167       | 9,167    | 9,167    | 9,167      | 9,167      | 22,634 |
| 2020 | 0           | 0           | 0     | 2,900      | 2,800      | 9,500      | 10,450      | 10,450   | 10,450   | 10,450     | 10,450     | 25,650 |

| Year | From West:  |             |       | To East:   |            |            | From North: |          |          | To South:  |            |        |
|------|-------------|-------------|-------|------------|------------|------------|-------------|----------|----------|------------|------------|--------|
|      | EB Approach | WB Approach | TOTAL | wbApproach | ebApproach | nbApproach | From South: | To North | To South | sbApproach | nbApproach | TOTAL  |
| 2005 | 0           | 0           | 0     | 2,050      | 1,950      | 6,000      | 6,600       | 6,600    | 6,600    | 6,600      | 6,600      | 16,600 |
| 2010 | 0           | 0           | 0     | 2,333      | 2,233      | 7,167      | 7,883       | 7,883    | 7,883    | 7,883      | 7,883      | 19,616 |
| 2015 | 0           | 0           | 0     | 2,617      | 2,517      | 8,333      | 9,167       | 9,167    | 9,167    | 9,167      | 9,167      | 22,634 |
| 2020 | 0           | 0           | 0     | 2,900      | 2,800      | 9,500      | 10,450      | 10,450   | 10,450   | 10,450     | 10,450     | 25,650 |

# DATA INPUT

Date:

30-Nov-98

Analyst: PAP

| Enter Project & Model Years: |      |
|------------------------------|------|
| Base                         | 2005 |
| Opening                      | 2010 |
| Mid                          | 2015 |
| Design                       | 2020 |
| Model                        | 2020 |

## Enter Base & Model Year AADT's for Interpolation:

| Base | Model | From West     |               | From East     |               | From North    |               | From South    |               | TOTAL  |       | year | diff of vols. | model - base: | 15   |
|------|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|-------|------|---------------|---------------|------|
|      |       | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach | (EB)   | (WB)  |      |               |               |      |
| 2005 | 2005  | 4,100         | 3,900         | 12,000        | 13,200        | 3,900         | 12,000        | 12,000        | 13,200        | 33,200 | 3,900 | 2005 | 4,100         | 1,700         | 1700 |
| 2020 | 2020  | 5,800         | 5,600         | 19,000        | 20,900        | 5,600         | 19,000        | 19,000        | 20,900        | 51,300 | 5,800 | 2020 | 5,800         | 19,000        | 1700 |

## AREA FOR CALCULATION : INTERPOLATION

| Base | Model | From West     |               | From East     |               | From North    |               | From South    |               | TOTAL  |       | year | diff of vols. | model - base: | 15   |
|------|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|-------|------|---------------|---------------|------|
|      |       | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach | (EB) Approach | (WB) Approach | (SB) Approach | (NB) Approach | (EB)   | (WB)  |      |               |               |      |
| 2005 | 2005  | 4,100         | 3,900         | 12,000        | 13,200        | 3,900         | 12,000        | 12,000        | 13,200        | 33,200 | 3,900 | 2005 | 4,100         | 1,700         | 1700 |
| 2020 | 2020  | 5,800         | 5,600         | 19,000        | 20,900        | 5,600         | 19,000        | 19,000        | 20,900        | 51,300 | 5,800 | 2020 | 5,800         | 19,000        | 1700 |

## Actual/Counted Traffic:

| 2005      |     |  |
|-----------|-----|--|
| W-to-E    | 135 |  |
| W-to-N    | 31  |  |
| W-to-S    | 54  |  |
| (EB RT)   |     |  |
| (WB RT)   |     |  |
| (SB RT)   |     |  |
| (NB RT)   |     |  |
| (EB LT)   |     |  |
| (WB LT)   |     |  |
| (SB LT)   |     |  |
| (NB LT)   |     |  |
| (EB THRU) |     |  |
| (WB THRU) |     |  |
| (SB THRU) |     |  |
| (NB THRU) |     |  |

| 98        |    |  |
|-----------|----|--|
| E-to-W    | 98 |  |
| E-to-N    | 94 |  |
| E-to-S    | 38 |  |
| (EB RT)   |    |  |
| (WB RT)   |    |  |
| (SB RT)   |    |  |
| (NB RT)   |    |  |
| (EB LT)   |    |  |
| (WB LT)   |    |  |
| (SB LT)   |    |  |
| (NB LT)   |    |  |
| (EB THRU) |    |  |
| (WB THRU) |    |  |
| (SB THRU) |    |  |
| (NB THRU) |    |  |

| 20        |     |  |
|-----------|-----|--|
| N-to-W    | 20  |  |
| N-to-E    | 70  |  |
| N-to-S    | 168 |  |
| (EB RT)   |     |  |
| (WB RT)   |     |  |
| (SB RT)   |     |  |
| (NB RT)   |     |  |
| (EB LT)   |     |  |
| (WB LT)   |     |  |
| (SB LT)   |     |  |
| (NB LT)   |     |  |
| (EB THRU) |     |  |
| (WB THRU) |     |  |
| (SB THRU) |     |  |
| (NB THRU) |     |  |

| 57        |     |  |
|-----------|-----|--|
| S-to-W    | 57  |  |
| S-to-E    | 63  |  |
| S-to-N    | 287 |  |
| (EB RT)   |     |  |
| (WB RT)   |     |  |
| (SB RT)   |     |  |
| (NB RT)   |     |  |
| (EB LT)   |     |  |
| (WB LT)   |     |  |
| (SB LT)   |     |  |
| (NB LT)   |     |  |
| (EB THRU) |     |  |
| (WB THRU) |     |  |
| (SB THRU) |     |  |
| (NB THRU) |     |  |

Desired Closure: 0.010

## PROJECT TRAFFIC FOR SR 39 - Build - PM

@ Knights Griffin Rd.

TO 2010 (From 2005 Base)

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2005

|       |       | SR 39 - Build - PM  |       | SR 39 - Build - PM  |       | SR 39 - Build - PM  |     |
|-------|-------|---------------------|-------|---------------------|-------|---------------------|-----|
|       |       | Knights Griffin Rd. |       | Knights Griffin Rd. |       | Knights Griffin Rd. |     |
| 2,100 | 10% < | 272                 | 4%    | 6,100               | 8,000 | 305                 | 4%  |
| 4,200 | 48% < | 892                 | 1,200 | 4%                  | 83%   | ^                   | 84% |
|       |       |                     |       | ^                   | 13%   | ^                   | 84% |
|       |       |                     |       | ^                   | 781   | ^                   | 12% |
|       |       |                     |       | ^                   | 5,000 | 1,400               | 880 |
|       |       |                     |       | ^                   | 1,400 | 1,400               |     |
|       |       |                     |       | ^                   | 596   | 975                 |     |
|       |       |                     |       | ^                   | 900   | 1,300               |     |
|       |       |                     |       | ^                   | 700   | 42%                 |     |
|       |       |                     |       | ^                   | >     | <                   |     |
|       |       |                     |       | ^                   | 30%   | 200                 |     |
|       |       |                     |       | ^                   | 700   | 1,000               |     |
|       |       |                     |       | ^                   | 2,000 | 2,300               |     |
|       |       |                     |       | ^                   | 2,900 | 4,600               |     |
|       |       |                     |       | ^                   | 36%   | 48%                 |     |
|       |       |                     |       | ^                   | 9,600 | 11,500              |     |
|       |       |                     |       | ^                   | 34%   | N/S                 |     |
|       |       |                     |       | ^                   | 1,700 | 1,107               |     |
|       |       |                     |       | ^                   | 675   | 2,300               |     |
|       |       |                     |       | ^                   | 675   | 5,400               |     |
|       |       |                     |       | ^                   | 1,072 | 1,228               |     |
|       |       |                     |       | ^                   | 16%   | 16%                 |     |
|       |       |                     |       | ^                   | 69%   | v                   |     |
|       |       |                     |       | ^                   | 15%   | v                   |     |
|       |       |                     |       | ^                   | 979   | v                   |     |
|       |       |                     |       | ^                   | 9,400 | 15,700              |     |
|       |       |                     |       | ^                   | 6,600 | 7,800               |     |
|       |       |                     |       | ^                   | 6,600 | 7,800               |     |

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2010

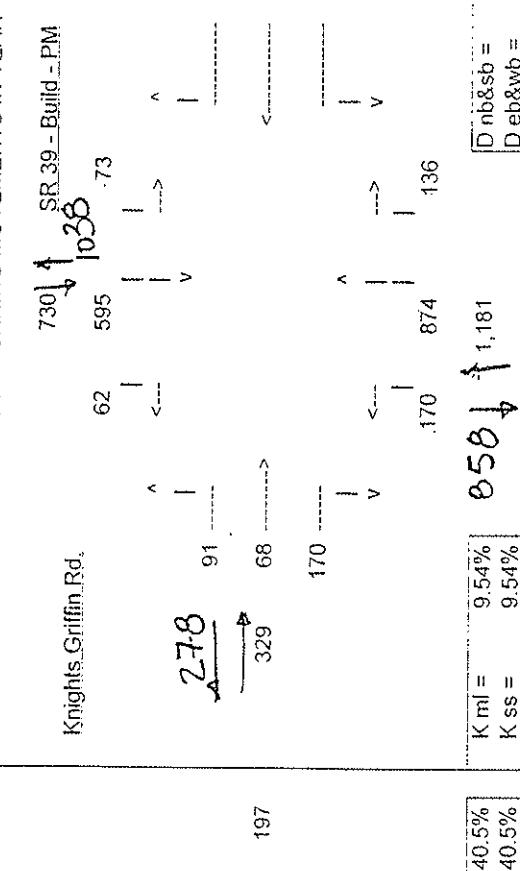
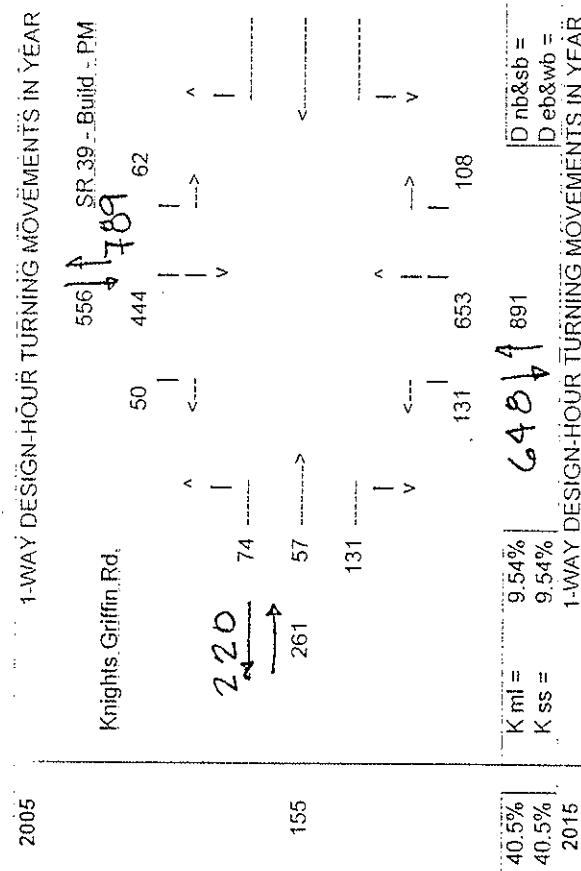
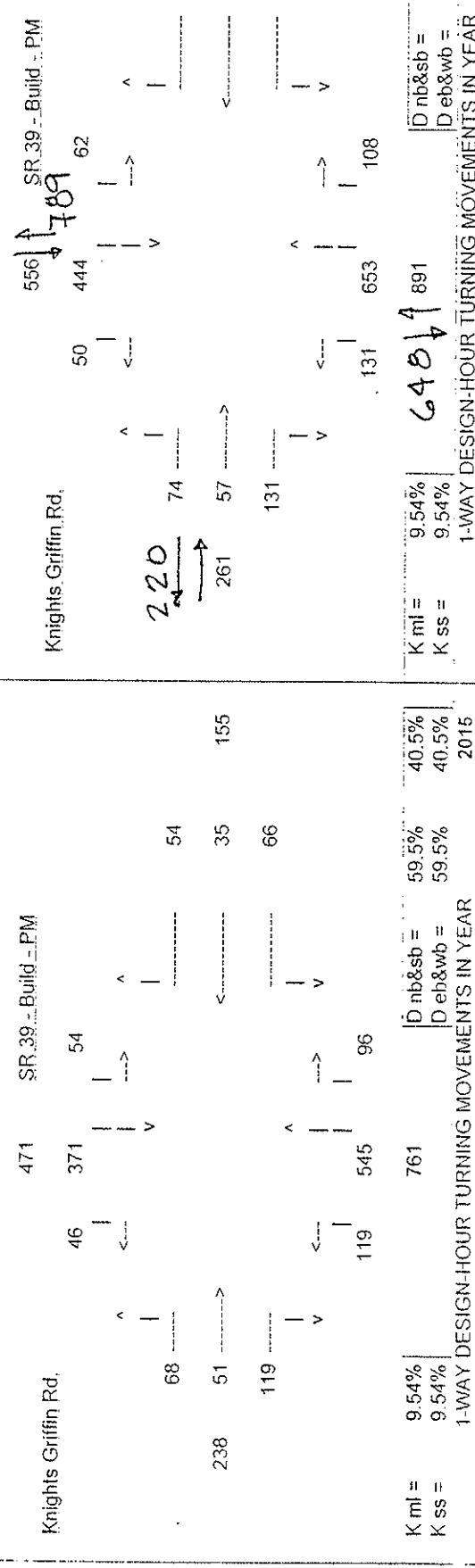
|       |       | SR 39 - Build - PM  |       | SR 39 - Build - PM  |        | SR 39 - Build - PM  |       |
|-------|-------|---------------------|-------|---------------------|--------|---------------------|-------|
|       |       | Knights Griffin Rd. |       | Knights Griffin Rd. |        | Knights Griffin Rd. |       |
| 2,600 | 9% <  | 339                 | 4%    | 8,300               | 16,700 | 377                 | 4%    |
| 5,200 | 49% < | 1,099               | 1,400 | 4%                  | 84%    | ^                   | 85%   |
|       |       |                     |       | ^                   | 12%    | ^                   | 85%   |
|       |       |                     |       | ^                   | 980    | 1,224               | 11%   |
|       |       |                     |       | ^                   | 1,800  | 1,600               | 1,091 |
|       |       |                     |       | ^                   | 7,000  | 8,000               |       |
|       |       |                     |       | ^                   | 1,100  | 30%                 |       |
|       |       |                     |       | ^                   | 900    | 42%                 |       |
|       |       |                     |       | ^                   | >      | <                   |       |
|       |       |                     |       | ^                   | 30%    | 300                 |       |
|       |       |                     |       | ^                   | 34%    | 1,200               |       |
|       |       |                     |       | ^                   | 5,100  | 2,900               |       |
|       |       |                     |       | ^                   | 5,800  | 5,800               |       |
|       |       |                     |       | ^                   | 35%    | 49%                 |       |
|       |       |                     |       | ^                   | 13,500 | N/S                 |       |
|       |       |                     |       | ^                   | 1,200  | 1,417               |       |
|       |       |                     |       | ^                   | 6,500  | 3,000               |       |
|       |       |                     |       | ^                   | 2,200  | 7,400               |       |
|       |       |                     |       | ^                   | 917    | v                   |       |
|       |       |                     |       | ^                   | 14%    | v                   |       |
|       |       |                     |       | ^                   | 1,298  | 1,571               |       |
|       |       |                     |       | ^                   | 18,400 | 15%                 |       |
|       |       |                     |       | ^                   | 9,200  | 71%                 |       |
|       |       |                     |       | ^                   | 18,000 | 18,000              |       |
|       |       |                     |       | ^                   | 10,400 | 10,400              |       |
|       |       |                     |       | ^                   | 7,800  | 7,800               |       |

## PROJECT TRAFFIC FOR SR 39 - Build - PM

@ Knights Griffin Rd.

TO 2010 (From 2005 Base)

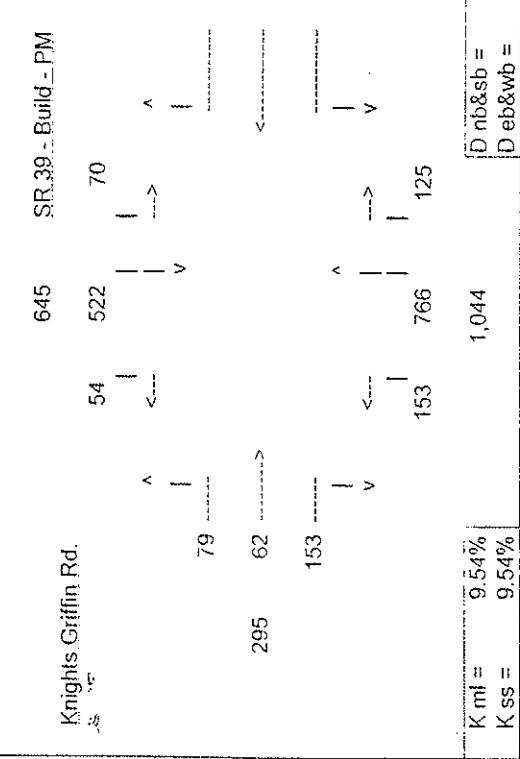
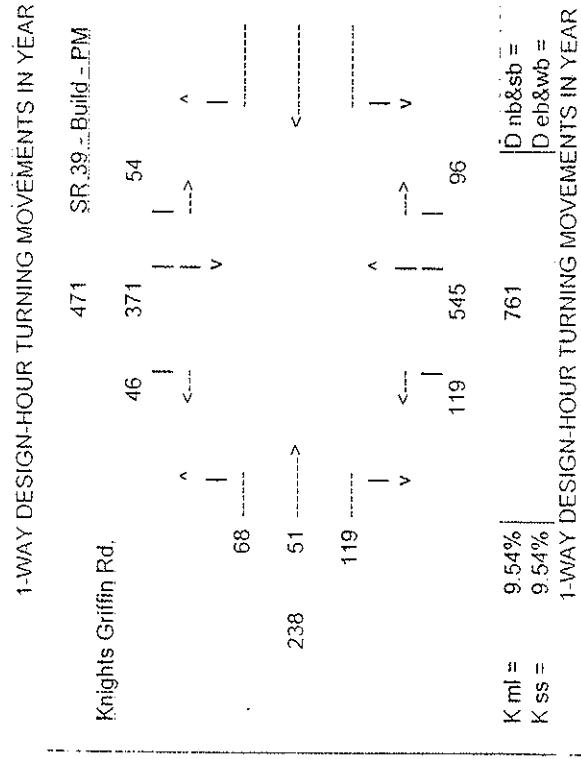
## 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR

 $D_{nb\&sb} = 59.5\%$  $D_{eb\&wb} = 59.5\%$ 

40.5% 40.5%

40.5% 40.5%

2020

 $D_{nb\&sb} = 59.5\%$  $D_{eb\&wb} = 59.5\%$ 

40.5% 40.5%

40.5% 40.5%

2020

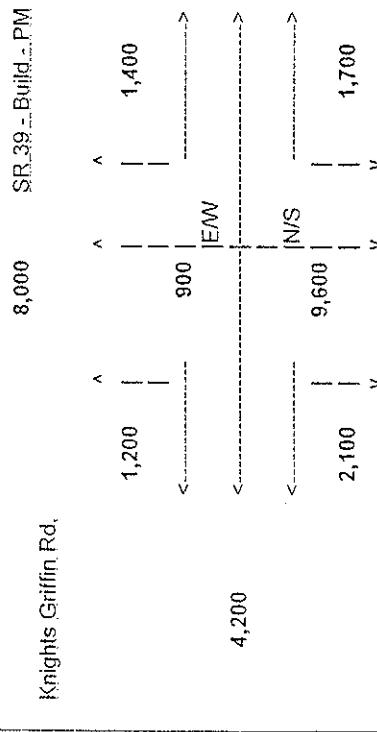
213

277

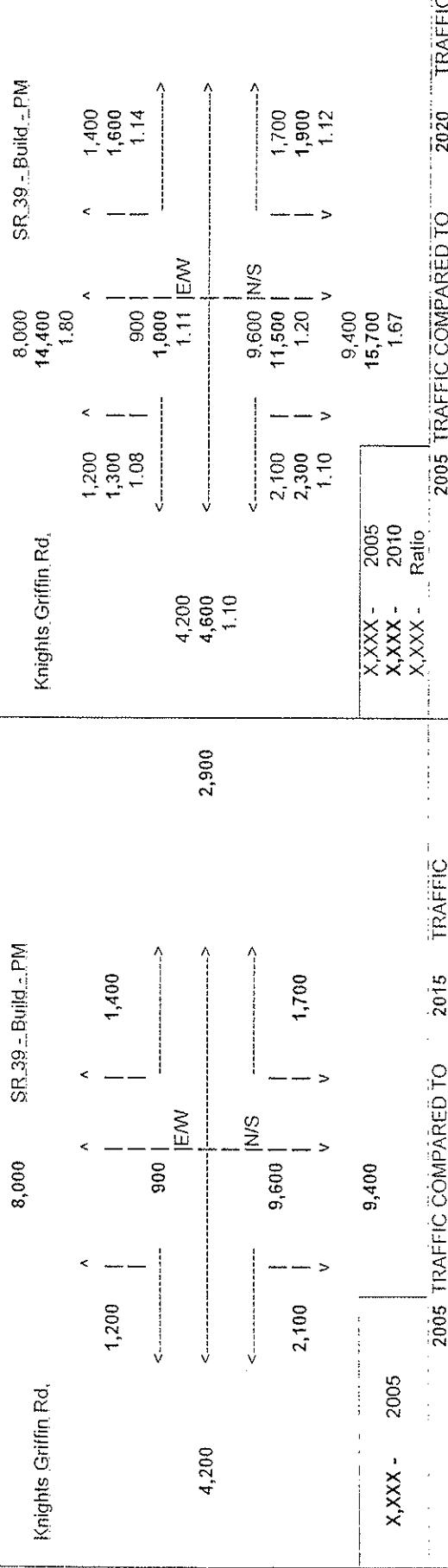
## PROJECT TRAFFIC FOR

SR 39 - Build - PM  
@ Knights Griffin Rd.

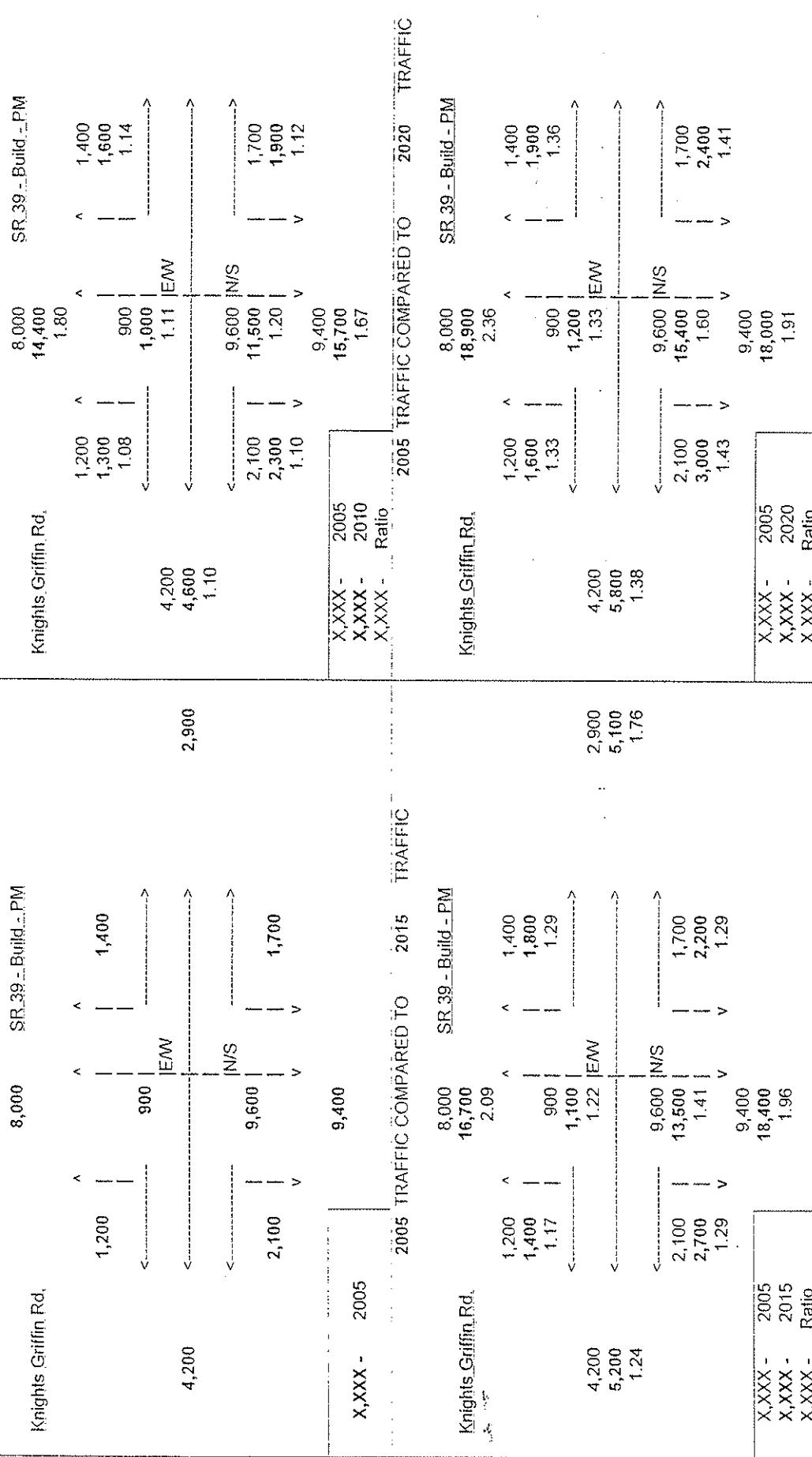
## 2005 TRAFFIC



## 2005 TRAFFIC COMPARED TO



## 2005 TRAFFIC COMPARED TO



TO 2010 (From 2005 Base)

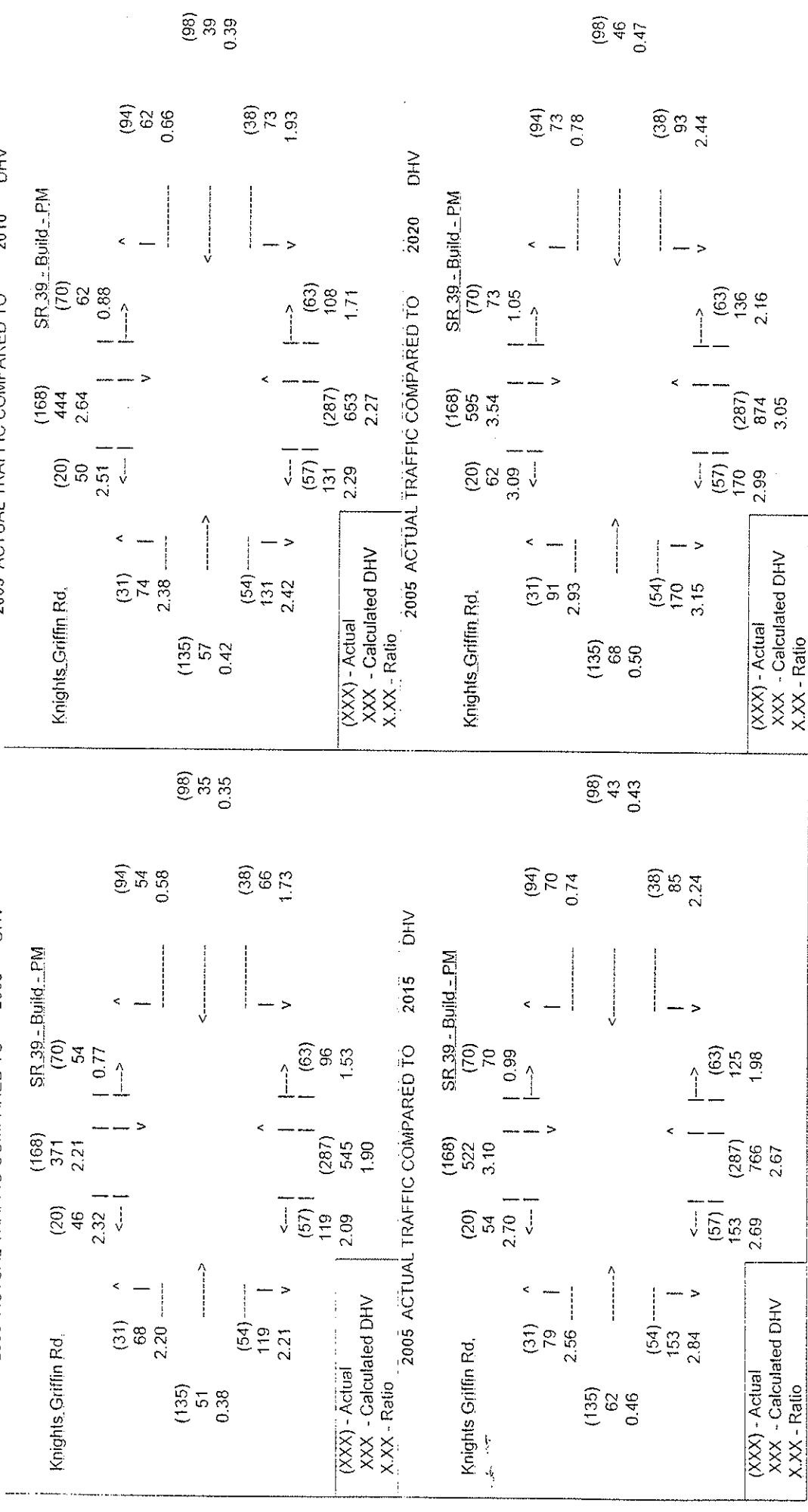
## PROJECT TRAFFIC FOR

@ Knights Griffin Rd.

SR 39 - Build - PM : Opening Day : 2010

## 2005 ACTUAL TRAFFIC COMPARED TO

2005 DHV



## DATA INPUT

Date:

30-Nov-98

|               |                       |
|---------------|-----------------------|
| Analyst:      | PAP                   |
| Highway:      | SR 39 - Build - AM    |
| Intersection: | Zephyrhills Bypass    |
| From:         | Opening Day           |
| To:           | 2010 (From 2005 Base) |
| County:       | Hillsborough          |

North/South Orientation of Mainline ?  
(Y/N)

|            |                                    |
|------------|------------------------------------|
| K Factors: |                                    |
| Mainline   | <input type="text" value="9.54%"/> |
| Sidestreet | <input type="text" value="9.54%"/> |

D Factors:

|               |                                    |                |
|---------------|------------------------------------|----------------|
| a. Mainline   | <input type="text" value="59.5%"/> | Northbound(NB) |
|               | <input type="text" value="40.5%"/> | Southbound(SB) |
| b. Sidestreet | <input type="text" value="59.5%"/> | Eastbound(EB)  |
|               | <input type="text" value="40.5%"/> | Westbound(WB)  |

Do you have FSTUMS Model Year Traffic from which you would like to  
interpolate/extrapolate for project years? (Y/N)

Y

Manual Instr:

If Y, go to A43

If N, go to A24

Enter Year and Growth Rates from Base Year:  
Year Rate

|         |                      |
|---------|----------------------|
| Base    | <input type="text"/> |
| Opening | <input type="text"/> |
| Mid     | <input type="text"/> |
| Design  | <input type="text"/> |

IF NO:

RANGE NAMES FOR YEARS:  
Base 2005  
Open 2010  
Mid 2015  
Design 2020

AREA FOR CALCULATIONS: 1/2\_OF\_INPUT\_AADT

| Year | EB Approach | WB Approach | SB Approach | NB Approach | TOTAL  |
|------|-------------|-------------|-------------|-------------|--------|
| 2005 | 1,750       | 1,250       | 5,800       | 6,600       | 15,400 |
| 2010 | 2,100       | 1,500       | 6,933       | 7,900       | 18,433 |
| 2015 | 2,450       | 1,750       | 8,067       | 9,200       | 21,467 |
| 2020 | 2,800       | 2,000       | 9,200       | 10,500      | 24,500 |

| Year | EB Approach | WB Approach | SB Approach | NB Approach | TOTAL  |
|------|-------------|-------------|-------------|-------------|--------|
| 2005 | 1,750       | 1,250       | 5,800       | 6,600       | 15,400 |
| 2010 | 2,100       | 1,500       | 6,933       | 7,900       | 18,433 |
| 2015 | 2,450       | 1,750       | 8,067       | 9,200       | 21,467 |
| 2020 | 2,800       | 2,000       | 9,200       | 10,500      | 24,500 |

| Year | From West:  | From East:  | To North:   | To South:   | Total: |
|------|-------------|-------------|-------------|-------------|--------|
| 2005 | EB Approach | WB Approach | SB Approach | NB Approach |        |
| 2010 | 0           | 0           | 0           | 0           |        |
| 2015 | 0           | 0           | 0           | 0           |        |
| 2020 | 0           | 0           | 0           | 0           |        |

| Year | From West:  | From East:  | To East:   | To North:  | To South:  | Total: |
|------|-------------|-------------|------------|------------|------------|--------|
| 2005 | EB Approach | WB Approach | sbApproach | nbApproach | sbApproach |        |
| 2010 | 0           | 0           | 0          | 0          | 0          |        |
| 2015 | 0           | 0           | 0          | 0          | 0          |        |
| 2020 | 0           | 0           | 0          | 0          | 0          |        |

# DATA INPUT

Date:

30-Nov-98

[PAP]

Analyst:

Enter Project & Model Years:

|         |      |
|---------|------|
| Base    | 2005 |
| Opening | 2010 |
| Mid     | 2015 |
| Design  | 2020 |
| Model   | 2020 |

Enter Base & Model Year AADTs for Interpolation:

| Base | From West<br>(EB) Approach | From East<br>(WB) Approach | From South    |               | TOTAL  | model - base:<br>diff of yrs: | year | area  | model - base:<br>diff of yrs: | year | area  | model - base:<br>diff of yrs: | year | area  |        |
|------|----------------------------|----------------------------|---------------|---------------|--------|-------------------------------|------|-------|-------------------------------|------|-------|-------------------------------|------|-------|--------|
|      |                            |                            | (SB) Approach | (NB) Approach |        |                               |      |       |                               |      |       |                               |      |       |        |
| 2005 | 3,500                      | 2,500                      | 11,600        | 13,200        | 30,800 | 5                             | 2005 | 3,500 | 5                             | 2005 | 2,500 | 5                             | 2005 | 3,500 | 30,800 |
| 2020 | 5,600                      | 4,000                      | 18,400        | 21,000        | 49,000 | 15                            | 2020 | 5,600 | 15                            | 2020 | 4,000 | 15                            | 2020 | 5,600 | 49,000 |

Enter "1st Guess" Turning  
Percentages for AADT Balancing:

|            |        |      |
|------------|--------|------|
| * (EB THR) | W-to-E | 0.46 |
| (EB LT)    | W-to-N | 0.47 |
| (EB RT)    | W-to-S | 0.07 |

|          |        |      |
|----------|--------|------|
| (WB THR) | E-to-W | 0.30 |
| (WB RT)  | E-to-N | 0.69 |
| (WB LT)  | E-to-S | 0.01 |

|          |        |      |
|----------|--------|------|
| (SB RT)  | N-to-W | 0.15 |
| (SB LT)  | N-to-E | 0.40 |
| (SB THR) | N-to-S | 0.45 |

|          |        |      |
|----------|--------|------|
| (NB LT)  | S-to-W | 0.06 |
| (NB RT)  | S-to-E | 0.01 |
| (NB THR) | S-to-N | 0.93 |

Desired Closure:

Actual/Counted Traffic:

|      |        |     |
|------|--------|-----|
| 2005 | W-to-E | 107 |
|      | W-to-N | 108 |
|      | W-to-S | 16  |

|  |        |     |
|--|--------|-----|
|  | E-to-W | 45  |
|  | E-to-N | 102 |
|  | E-to-S | 0   |

|  |        |     |
|--|--------|-----|
|  | N-to-W | 40  |
|  | N-to-E | 111 |
|  | N-to-S | 124 |

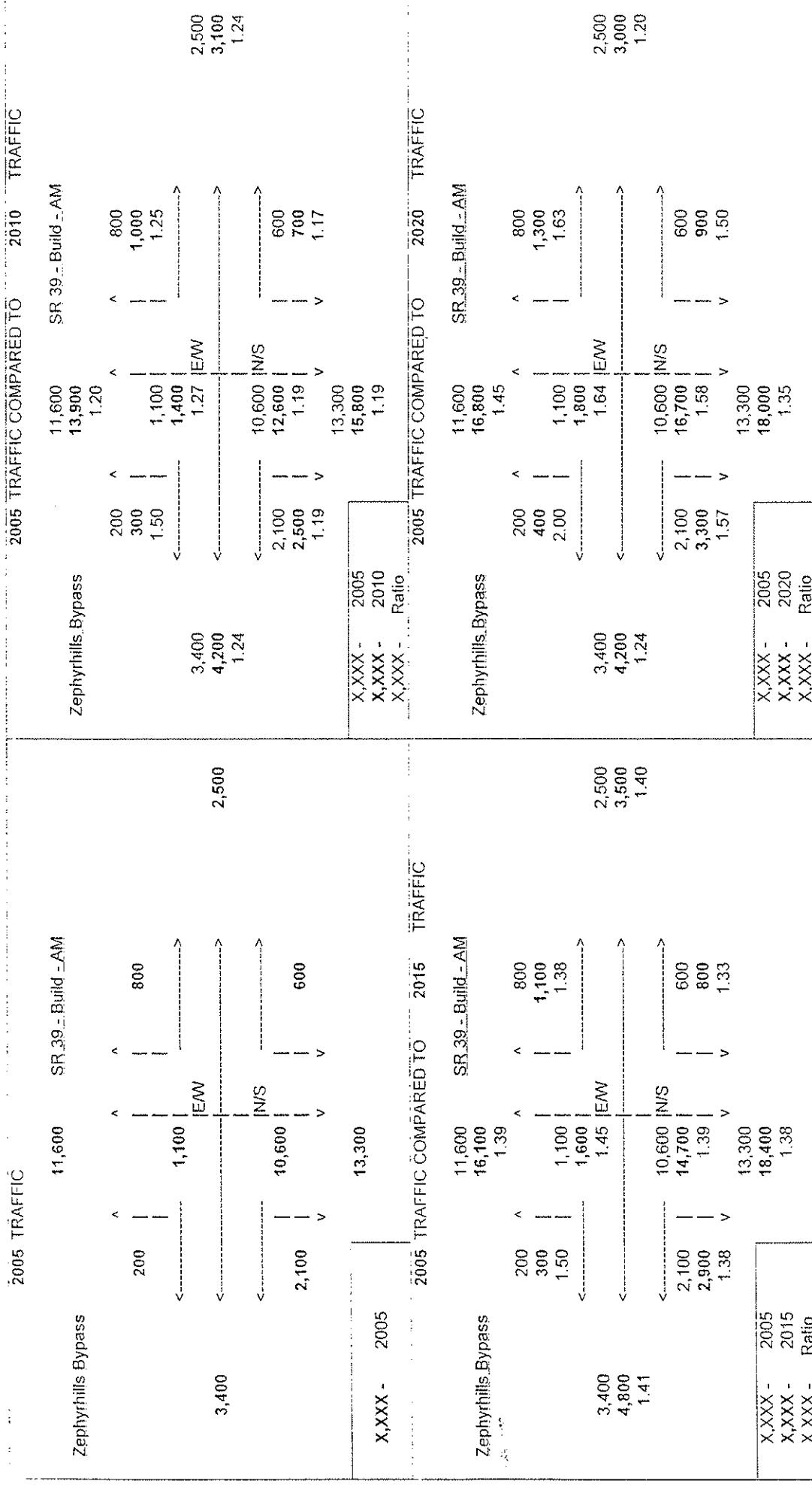
|  |        |     |
|--|--------|-----|
|  | S-to-W | 12  |
|  | S-to-E | 3   |
|  | S-to-N | 202 |

| PROJECT TRAFFIC FOR                  |       | SR 39 - Build - AM |       | SR 39 - Build - AM |     | Zephyrhills Bypass                   |       | @ ... Zephyrhills Bypass |      | Opening Day |        | TO     |        | 2010 (From 2006 Base) |       |     |       |
|--------------------------------------|-------|--------------------|-------|--------------------|-----|--------------------------------------|-------|--------------------------|------|-------------|--------|--------|--------|-----------------------|-------|-----|-------|
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |       | 2005               |       | 2010               |     | 2-WAY AADT TURNING MOVEMENTS IN YEAR |       | 2005                     |      | 2010        |        | TO     |        | 2010 (From 2006 Base) |       |     |       |
| Zephyrhills Bypass                   | 111   | 2%                 | 5,800 | SR_39_Build_AM     | 131 | 2%                                   | 6,900 | SR_39_Build_AM           | 132  | 2%          | 11,600 | 91%    | 13,900 | 91%                   | 7%    | 487 |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 132   | 200                | ^     | 5,300              | ^   | 800                                  | 416   |                          | 161  | 300         | ^      | 6,300  | ^      | 1,000                 | ^     | 510 |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 8% <  | E/W                |       |                    |     |                                      |       |                          | 8% < |             |        |        |        |                       |       |     | 32% > |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 1,700 | 34% <              | 600   | 1,100              |     | 600                                  |       |                          | 32%  |             |        | 700    |        | 1,400                 |       |     |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 3,400 | 59% <              |       | N/S                |     |                                      |       |                          |      |             |        | 2,100  | 34%    | 700                   |       |     |       |
|                                      |       |                    |       | 10,600             |     |                                      |       |                          |      |             |        | 4,200  |        | N/S                   |       |     |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 996   | 2,100              | ^     | 5,300              | ^   | 600                                  | 306   |                          | 24%  |             |        | 1,232  | 2,500  | ^                     | 6,300 | ^   | 1,600 |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     | 3,100 |
|                                      | 1,101 | 16%                | v     | v                  | v   | 4%                                   | 255   |                          |      |             |        | 1,302  | 16%    | v                     | v     | 4%  | 303   |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      |       |                    |       | 13,300             |     |                                      |       |                          |      |             |        | 15,800 |        |                       |       |     |       |
|                                      |       |                    |       | 6,700              |     |                                      |       |                          |      |             |        | 7,900  |        |                       |       |     |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |       | 2015               |       | 2020               |     | 2-WAY AADT TURNING MOVEMENTS IN YEAR |       | 2005                     |      | 2010        |        | TO     |        | 2010 (From 2006 Base) |       |     |       |
| Zephyrhills Bypass                   | 153   | 2%                 | 8,100 | SR_39_Build_AM     | 173 | 2%                                   | 9,200 | SR_39_Build_AM           | 183  | 2%          | 16,100 | 91%    | 16,800 | 91%                   | 7%    | 650 |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 183   | 300                | ^     | 7,400              | ^   | 1,100                                | 572   |                          | 205  | 400         | ^      | 8,400  | ^      | 1,300                 | ^     | 634 |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 8% <  | E/W                |       |                    |     |                                      |       |                          | 32%  |             |        | 900    |        | 1,800                 |       |     |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 2,400 | 34% <              | 800   | 1,600              |     | 800                                  |       |                          | 44%  |             |        | 2,700  | 34%    | N/S                   |       |     |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        | 4,200  | 59%    | 16,700                |       |     |       |
|                                      | 4,800 | 59% <              |       | N/S                |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      |       |                    |       | 14,700             |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      | 1,409 | 2,900              | ^     | 7,300              | ^   | 800                                  | 428   |                          | 24%  |             |        | 1,586  | 3,300  | v                     | 8,400 | v   | 2,000 |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     | 3,000 |
|                                      | 1,520 | 17%                | v     | v                  | v   | 4%                                   | 355   |                          |      |             |        | 1,738  | 17%    | v                     | v     | 4%  | 408   |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |
|                                      |       |                    |       | 18,400             |     |                                      |       |                          |      |             |        | 9,200  |        | 10,500                |       |     |       |
|                                      |       |                    |       |                    |     |                                      |       |                          |      |             |        |        |        |                       |       |     |       |

PROJECT TRAFFIC FOR SR 39 - Build - AM @ Zephyrhills Bypass : Opening Day TO 2010 (From 2005 Base)

| 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR        |  |  |  |  |  |  |  |  |  | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR        |  |  |  |  |  |  |  |  |                    |     |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|-----|
| 2005   |  |  |  |  | 2010   |  |  |  |  | 2005   |  |  |  |  | 2010   |  |  |  |                    |     |
| Zephyrhills Bypass                                 | 448  | SR 39 - Build - AM   | Zephyrhills Bypass   | 537  | SR 39 - Build - AM   | Zephyrhills Bypass                                 | 12   | 487  |  | Zephyrhills Bypass                                 | 537  | SR 39 - Build - AM                                 | Zephyrhills Bypass                                 | 12   | 487  |  | Zephyrhills Bypass                                 | 537  | SR 39 - Build - AM |     |
| 11   | 8  | 410  | 31   | 31   | 39   | 11   | 487  |  | 11   | 487  | 39   | 11   | 487  |  | 11   | 487  | 39   | 11   | 487                | 39  |
| 193  | 62   | >  | v  | v  | v  | 11   | 31   | ^  | 11   | 31   | ^  | 11   | 31   | ^  | 11   | 31   | ^  | 11   | 31                 | ^   |
| 119  | 119  | v  | v  | v  | v  | 193  | 43   | 97   | 193  | 238  | 79   | 193  | 238  | 79   | 193  | 238  | 79   | 193  | 238                | 79  |
| 119  | 119  | 602  | 34   | 34   | 34   | 119  | 23   | 23   | 119  | 142  | 142  | 119  | 142  | 142  | 119  | 142  | 142  | 119  | 142                | 142 |
| K <sub>ml</sub> = 9.54%<br>K <sub>ss</sub> = 9.54% | K <sub>ml</sub> = 9.54%<br>K <sub>ss</sub> = 9.54% | D <sub>nb&amp;sb</sub> = 59.5%<br>D <sub>eb&amp;wb</sub> = 59.5% | K <sub>ml</sub> = 9.54%<br>K <sub>ss</sub> = 9.54% |  |                    |     |
| Zephyrhills Bypass                                 | 622  | SR 39 - Build - AM   | Zephyrhills Bypass   | 711  | SR 39 - Build - AM   | Zephyrhills Bypass                                 | 15   | 645  |  | Zephyrhills Bypass                                 | 711  | SR 39 - Build - AM                                 | Zephyrhills Bypass                                 | 15   | 645  |  | Zephyrhills Bypass                                 | 711  | SR 39 - Build - AM |     |
| 17   | 12   | 568  | 43   | 43   | 50   | 17   | 43   | 43   | 17   | 23   | 23   | 17   | 43   | 43   | 17   | 23   | 23   | 17   | 23                 | 23  |
| 272  | 91   | >  | v  | v  | v  | 272  | 62   | 135  | 272  | 312  | 102  | 272  | 312  | 102  | 272  | 312  | 102  | 272  | 312                | 102 |
| 165  | 165  | v  | v  | v  | v  | 165  | 31   | 31   | 165  | 187  | 187  | 165  | 31   | 31   | 165  | 187  | 187  | 165  | 187                | 187 |
| K <sub>ml</sub> = 9.54%<br>K <sub>ss</sub> = 9.54% | K <sub>ml</sub> = 9.54%<br>K <sub>ss</sub> = 9.54% | D <sub>nb&amp;sb</sub> = 59.5%<br>D <sub>eb&amp;wb</sub> = 59.5% | K <sub>ml</sub> = 9.54%<br>K <sub>ss</sub> = 9.54% |                    |     |

PROJECT TRAFFIC FOR SR 39 - Build - AM @ Zephyrhills Bypass : Opening Day : TO : 2010 (From 2005 Base)



PROJECT TRAFFIC FOR ..... SR 39 - Build - AM ..... @ ..... Zephyrhills Bypass ..... Opening Day ..... TO ..... 2010 (From 2005 Base)

| 2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV |            |                |            | 2005 ACTUAL TRAFFIC COMPARED TO 2010 DHV |            |                |                |
|--|------------|----------------|------------|--|------------|----------------|----------------|
| Zephyrhills_Bypass                       |            | SR_39_Build_AM |            | Zephyrhills_Bypass                       |            | SR_39_Build_AM |                |
| (40) 8                                   | (124) 0.19 | (410) 0.28     | (111) 31   | (108) ^                                  | (108) ^    | (40) 0.29      | (124) 0.35     |
| <---                                     | --->       | --->           | v          | v  | <---       | v              | v              |
| 11                                       | v          | v              | v          | v  | 17         | v              | v              |
| 0.11 -----                               | -----      | -----          | -----      | 0.30                                     | 0.16 ----- | -----          | -----          |
| (107) 62                                 | (16) 1.19  | (12) 7.45      | (12) 9.93  | (102) 0.58                               | (102) 0.74 | (107) 0.94     | (102) 0.94     |
| ----->                                   | -----      | -----          | -----      | ----->                                   | -----      | 0.43           | ----->         |
| 0.58                                     | 1.19       | v              | 602        | 11.9                                     | 0.74       | 0.94           | 0.43           |
| 7.45                                     | v          | v              | 11.35      | (202) 11.9                               | v          | v              | v              |
| (XXX) - Actual                           | 9.93       | 2.98           | 11.35      | 34                                       | v          | v              | v              |
| XXX - Calculated DHV                     | -----      | -----          | 11.35      | (3)                                      | ERR        | ERR            | ERR            |
| X.XX - Ratio                             | -----      | -----          | 11.35      | 0.34                                     | -----      | -----          | -----          |
| 2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV |            |                |            | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |            |                |                |
| Zephyrhills_Bypass                       | (40) 12    | (124) 0.29     | (568) 4.58 | Zephyrhills_Bypass                       | (40) 15    | (40) 0.39      | SR_39_Build_AM |
| SR_39_Build_AM                           | (111) 43   | --->           | (111) 43   | SR_39_Build_AM                           | (111) 50   | --->           | (111) 50       |
| (108) ^                                  | v          | --->           | v          | (108) ^                                  | v          | --->           | v              |
| 17                                       | v          | v              | v          | 23                                       | v          | v              | v              |
| 0.16 -----                               | -----      | -----          | -----      | 0.42                                     | 0.21 ----- | -----          | -----          |
| (107) 91                                 | (16) 165   | (12) 10.29     | (12) 13.72 | (102) 0.85                               | (102) 1.37 | (107) 1.37     | (102) 1.37     |
| ----->                                   | -----      | -----          | -----      | ----->                                   | 0.62       | 102            | 102            |
| 0.85                                     | 165        | v              | 13.72      | v  | v          | 0.95           | v              |
| 165                                      | v          | v              | 13.72      | v  | v          | v              | v              |
| (XXX) - Actual                           | 165        | (202) 165      | 834        | (3) 4.5                                  | 0          | (16) 187       | (12) 187       |
| XXX - Calculated DHV                     | -----      | -----          | 834        | 4.5                                      | 31         | 11.71          | 11.71          |
| X.XX - Ratio                             | -----      | -----          | 834        | 15.14                                    | ERR        | v              | v              |

| 2005 ACTUAL TRAFFIC COMPARED TO 2010 DHV |            |                |            | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |            |                |                |
|--|------------|----------------|------------|--|------------|----------------|----------------|
| Zephyrhills_Bypass                       |            | SR_39_Build_AM |            | Zephyrhills_Bypass                       |            | SR_39_Build_AM |                |
| (40) 8                                   | (124) 0.19 | (410) 0.28     | (111) 31   | (108) ^                                  | (108) ^    | (40) 0.29      | (124) 0.35     |
| <---                                     | --->       | --->           | v          | v  | <---       | v              | v              |
| 11                                       | v          | v              | v          | v  | 17         | v              | v              |
| 0.11 -----                               | -----      | -----          | 0.30       | 0.16 -----                               | -----      | -----          | -----          |
| (107) 62                                 | (16) 1.19  | (12) 7.45      | (12) 9.93  | (102) 0.58                               | (102) 0.74 | (107) 0.94     | (102) 0.94     |
| ----->                                   | -----      | -----          | -----      | ----->                                   | 0.43       | 0.43           | 0.43           |
| 0.58                                     | 1.19       | v              | 602        | 11.9                                     | v          | v              | v              |
| 7.45                                     | v          | v              | 11.35      | (202) 11.9                               | v          | v              | v              |
| (XXX) - Actual                           | 9.93       | 2.98           | 11.35      | 34                                       | v          | v              | v              |
| XXX - Calculated DHV                     | -----      | -----          | 11.35      | (3)                                      | ERR        | ERR            | ERR            |
| X.XX - Ratio                             | -----      | -----          | 11.35      | 0.34                                     | -----      | -----          | -----          |
| 2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV |            |                |            | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |            |                |                |
| Zephyrhills_Bypass                       | (40) 12    | (124) 0.29     | (568) 4.58 | Zephyrhills_Bypass                       | (40) 15    | (40) 0.39      | SR_39_Build_AM |
| SR_39_Build_AM                           | (111) 43   | --->           | (111) 43   | SR_39_Build_AM                           | (111) 50   | --->           | (111) 50       |
| (108) ^                                  | v          | --->           | v          | (108) ^                                  | v          | --->           | v              |
| 17                                       | v          | v              | v          | 23                                       | v          | v              | v              |
| 0.16 -----                               | -----      | -----          | 0.42       | 0.21 -----                               | -----      | -----          | -----          |
| (107) 91                                 | (16) 165   | (12) 10.29     | (12) 13.72 | (102) 0.85                               | (102) 1.37 | (107) 1.37     | (102) 1.37     |
| ----->                                   | -----      | -----          | -----      | ----->                                   | 0.62       | 102            | 102            |
| 0.85                                     | 165        | v              | 13.72      | v  | v          | v              | v              |
| 165                                      | v          | v              | 13.72      | v  | v          | v              | v              |
| (XXX) - Actual                           | 165        | (202) 165      | 834        | (3) 4.5                                  | 0          | (16) 187       | (12) 187       |
| XXX - Calculated DHV                     | -----      | -----          | 834        | 4.5                                      | 31         | 11.71          | 11.71          |
| X.XX - Ratio                             | -----      | -----          | 834        | 15.14                                    | ERR        | v              | v              |

## DATA INPUT

Date:

30-Nov-98

PAP

Analyst:

Highway:  
Intersection:  
From:  
To:  
County:

|                       |
|-----------------------|
| SR 39 - Build - PM    |
| Zephyrhills Bypass    |
| Opening Day           |
| 2010 (From 2005 Base) |
| Pasco                 |

North/South Orientation of Mainline?  
(Y/N)

D Factors:

|               |       |                |
|---------------|-------|----------------|
| a. Mainline   | 59.5% | Northbound(NB) |
|               | 40.5% | Southbound(SB) |
| b. Sidestreet | 59.5% | Eastbound(EB)  |
|               | 40.5% | Westbound(WB)  |

Do you have FSUTMS Model Year Traffic from which you would like to  
interpolate/extrapolate for project years? (Y/N)

If NO: Enter Year and Growth Rates from Base Year:  
Year Rate

|         |  |
|---------|--|
| Base    |  |
| Opening |  |
| Mid     |  |
| Design  |  |

Enter Base Year AADTs for Volume Comparison:  
(uses growth rates to calculate other project years)

| Year | From West:  |             | From East:  |             | To West    |            | To East    |            | To North    |             | To South    |             | TOTAL       |             |        |
|------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|
|      | EB Approach | WB Approach | WB Approach | SB Approach | sbApproach | wbApproach | ebApproach | nbApproach | From North: | From South: | NB Approach | SB Approach | From North: | From South: | TOTAL  |
| 2005 | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          | 6,800       | 6,800       | 6,600       | 6,600       | 6,600       | 6,600       | 15,400 |
| 2010 | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          | 6,933       | 6,933       | 7,900       | 7,900       | 7,900       | 7,900       | 18,433 |
| 2015 | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          | 8,067       | 8,067       | 9,200       | 9,200       | 9,200       | 9,200       | 21,467 |
| 2020 | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          | 10,500      | 10,500      | 10,500      | 10,500      | 10,500      | 10,500      | 24,500 |

Page

# DATA INPUT

Analyst: PAP

Date: 30-Nov-98

IF YES: Enter Project & Model Years:

|         |      |
|---------|------|
| Base    | 2005 |
| Opening | 2010 |
| Mid     | 2015 |
| Design  | 2020 |
| Model   | 2020 |

Enter Base & Model Year AADTs for Interpolation:

| Base | From West | From East | From North | From South | TOTAL         |               | NB     | SB     | WB     | EB     | 2100  | 1500  | 6800  | 7800   |
|------|-----------|-----------|------------|------------|---------------|---------------|--------|--------|--------|--------|-------|-------|-------|--------|
|      |           |           |            |            | (EB) Approach | (WB) Approach |        |        |        |        |       |       |       |        |
| 2005 | 3,500     | 2,500     | 11,600     | 13,200     | 30,800        | 30,800        | 11,600 | 13,200 | 13,200 | 13,200 | 3,500 | 4,200 | 3,000 | 13,867 |
| 2020 | 5,600     | 4,000     | 18,400     | 21,000     | 49,000        | 49,000        | 5,600  | 4,000  | 4,000  | 4,000  | 4,900 | 5,600 | 3,500 | 16,133 |

AREA FOR CALCULATION: INTERPOLATION

| model - base: | 15   |
|---------------|------|
| diff of yrs:  | 2005 |
| year          | 2010 |
| model         | 2015 |
| 2020          | 2020 |

Enter "1st Guess" Turning  
Percentages for AADT Balancing:  
(EB THRU) W-to-E 0.51  
(EB LT) W-to-N 0.01  
(EB RT) W-to-S 0.48

(WB THRU) E-to-W 0.36  
(WB RT) E-to-N 0.20  
(WB LT) E-to-S 0.44

(SB RT) N-to-W 0.02  
(SB LT) N-to-E 0.09  
(SB THRU) N-to-S 0.89

(NB LT) S-to-W 0.27  
(NB RT) S-to-E 0.18  
(NB THRU) S-to-N 0.55

Desired Closure: 0.010

Actual/Counted Traffic:

|      |            |
|------|------------|
| 2005 | W-to-E 88  |
|      | W-to-N 2   |
|      | W-to-S 82  |
|      | E-to-W 57  |
|      | E-to-N 31  |
|      | E-to-S 68  |
|      | N-to-W 4   |
|      | N-to-E 19  |
|      | N-to-S 183 |
|      | S-to-W 97  |
|      | S-to-E 65  |
|      | S-to-N 193 |

## PROJECT TRAFFIC FOR

SR 39 - Build - PM

@ Zephyrhills Bypass

Opening Day

TO 2010 (From 2005 Base)

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2005

|                    |       | 2-WAY AADT TURNING MOVEMENTS IN YEAR |        |     |                    |       |       |        |       |
|--------------------|-------|--------------------------------------|--------|-----|--------------------|-------|-------|--------|-------|
|                    |       | 2005                                 |        |     | 2010               |       |       |        |       |
|                    |       | SR 39 - Build - PM                   |        |     | SR 39 - Build - PM |       |       |        |       |
| Zephyrhills Bypass |       |                                      |        |     |                    |       |       |        |       |
| 199                | 3%    | 5,800                                | 11,600 | 91% | 6%                 | 323   | 5,800 | 13,800 | 91%   |
| 82                 | 300   | ^                                    | 5,300  | ^   | ^                  | 800   | 504   | 6,300  | ^     |
| 5% <               | 700   | -                                    | 1,100  | -   | >                  | 400   | 42%   | 1,300  | 1,000 |
| 1,800              | 37% < | N/S                                  | 10,500 | -   | -                  | 2,500 | 34% < | 500    | 300   |
| 3,600              | 58% < | -                                    | 5,200  | -   | -                  | 600   | 24% < | 12,500 | N/S   |
| 1,045              | 2,200 | v                                    | 5,200  | v   | v                  | 294   | 1,221 | 6,200  | 58% < |
| 1,132              | 17%   | v                                    | 13,300 | 79% | 4%                 | 273   | 1,360 | v      | v     |
|                    |       |                                      | 6,600  |     |                    | 6,600 |       | 15,800 | 4%    |
|                    |       |                                      |        |     |                    |       |       | 7,900  | 329   |
|                    |       | 2-WAY AADT TURNING MOVEMENTS IN YEAR |        |     |                    |       |       |        |       |
|                    |       | 2015                                 |        |     | 2020               |       |       |        |       |
|                    |       | SR 39 - Build - PM                   |        |     | SR 39 - Build - PM |       |       |        |       |
| Zephyrhills Bypass |       |                                      |        |     |                    |       |       |        |       |
| 272                | 3%    | 8,000                                | 16,100 | 91% | 6%                 | 445   | 3,120 | 9,200  | 91%   |
| 108                | 400   | ^                                    | 7,300  | ^   | ^                  | 1,200 | 709   | 121    | 400   |
| 4% <               | 900   | -                                    | 1,500  | -   | >                  | 600   | 42%   | 1,000  | 8,400 |
| 2,400              | 37% < | N/S                                  | 14,500 | -   | -                  | 34%   | 1,700 | 2,700  | 37%   |
| 4,900              | 58% < | -                                    | 14,500 | -   | -                  | 600   | 34% < | 16,500 | N/S   |
| 1,395              | 3,000 | v                                    | 7,200  | v   | v                  | 800   | 25% < | 700    | 1,799 |
| 1,588              | 17%   | v                                    | 18,300 | 79% | 4%                 | 386   | 420   | v      | v     |
|                    |       |                                      | 9,200  |     |                    | 9,200 |       | 18,000 | 4%    |
|                    |       |                                      |        |     |                    |       |       | 10,400 | 438   |

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

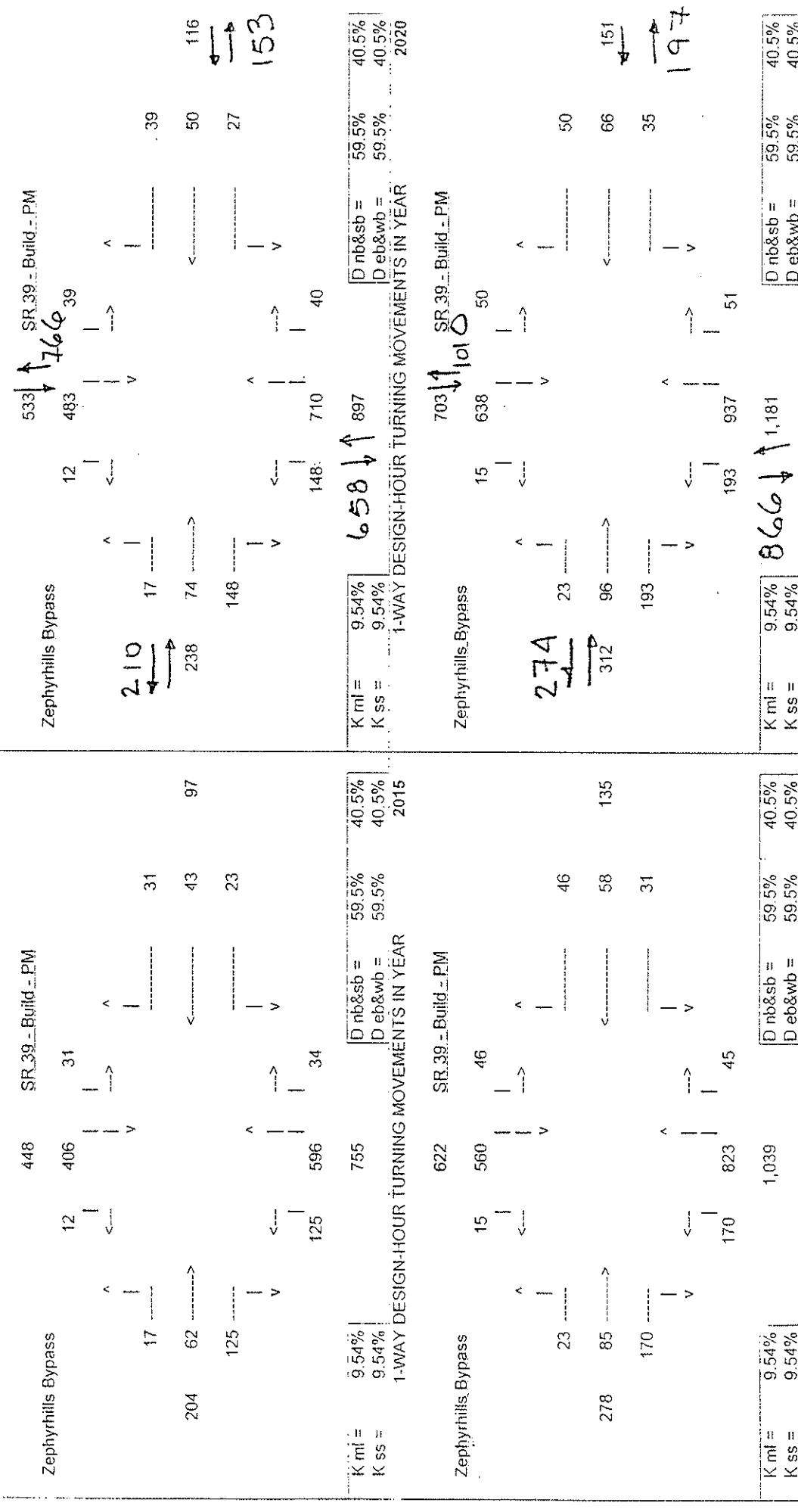
2010

|                    |       | 2-WAY AADT TURNING MOVEMENTS IN YEAR |        |     |                    |       |       |        |       |
|--------------------|-------|--------------------------------------|--------|-----|--------------------|-------|-------|--------|-------|
|                    |       | 2010                                 |        |     | 2020               |       |       |        |       |
|                    |       | SR 39 - Build - PM                   |        |     | SR 39 - Build - PM |       |       |        |       |
| Zephyrhills Bypass |       |                                      |        |     |                    |       |       |        |       |
| 199                | 3%    | 5,800                                | 11,600 | 91% | 6%                 | 323   | 5,800 | 13,800 | 91%   |
| 82                 | 300   | ^                                    | 5,300  | ^   | ^                  | 800   | 504   | 6,300  | ^     |
| 5% <               | 700   | -                                    | 1,100  | -   | >                  | 400   | 42%   | 1,300  | 1,000 |
| 1,800              | 37% < | N/S                                  | 10,500 | -   | -                  | 2,500 | 34% < | 500    | 300   |
| 3,600              | 58% < | -                                    | 5,200  | -   | -                  | 600   | 24% < | 12,500 | N/S   |
| 1,045              | 2,200 | v                                    | 5,200  | v   | v                  | 294   | 1,221 | 6,200  | 58% < |
| 1,132              | 17%   | v                                    | 13,300 | 79% | 4%                 | 273   | 1,360 | v      | v     |
|                    |       |                                      | 6,600  |     |                    | 6,600 |       | 15,800 | 4%    |
|                    |       |                                      |        |     |                    |       |       | 7,900  | 329   |
|                    |       | 2-WAY AADT TURNING MOVEMENTS IN YEAR |        |     |                    |       |       |        |       |
|                    |       | 2020                                 |        |     | 2020               |       |       |        |       |
|                    |       | SR 39 - Build - PM                   |        |     | SR 39 - Build - PM |       |       |        |       |
| Zephyrhills Bypass |       |                                      |        |     |                    |       |       |        |       |
| 272                | 3%    | 8,000                                | 16,100 | 91% | 6%                 | 445   | 3,120 | 9,200  | 91%   |
| 108                | 400   | ^                                    | 7,300  | ^   | ^                  | 1,200 | 709   | 121    | 400   |
| 4% <               | 900   | -                                    | 1,500  | -   | >                  | 600   | 42%   | 1,000  | 8,400 |
| 2,400              | 37% < | N/S                                  | 14,500 | -   | -                  | 34%   | 1,700 | 2,700  | 37%   |
| 4,900              | 58% < | -                                    | 14,500 | -   | -                  | 600   | 34% < | 16,500 | N/S   |
| 1,395              | 3,000 | v                                    | 7,200  | v   | v                  | 800   | 25% < | 700    | 1,799 |
| 1,588              | 17%   | v                                    | 18,300 | 79% | 4%                 | 386   | 420   | v      | v     |
|                    |       |                                      | 9,200  |     |                    | 9,200 |       | 18,000 | 4%    |
|                    |       |                                      |        |     |                    |       |       | 10,400 | 438   |

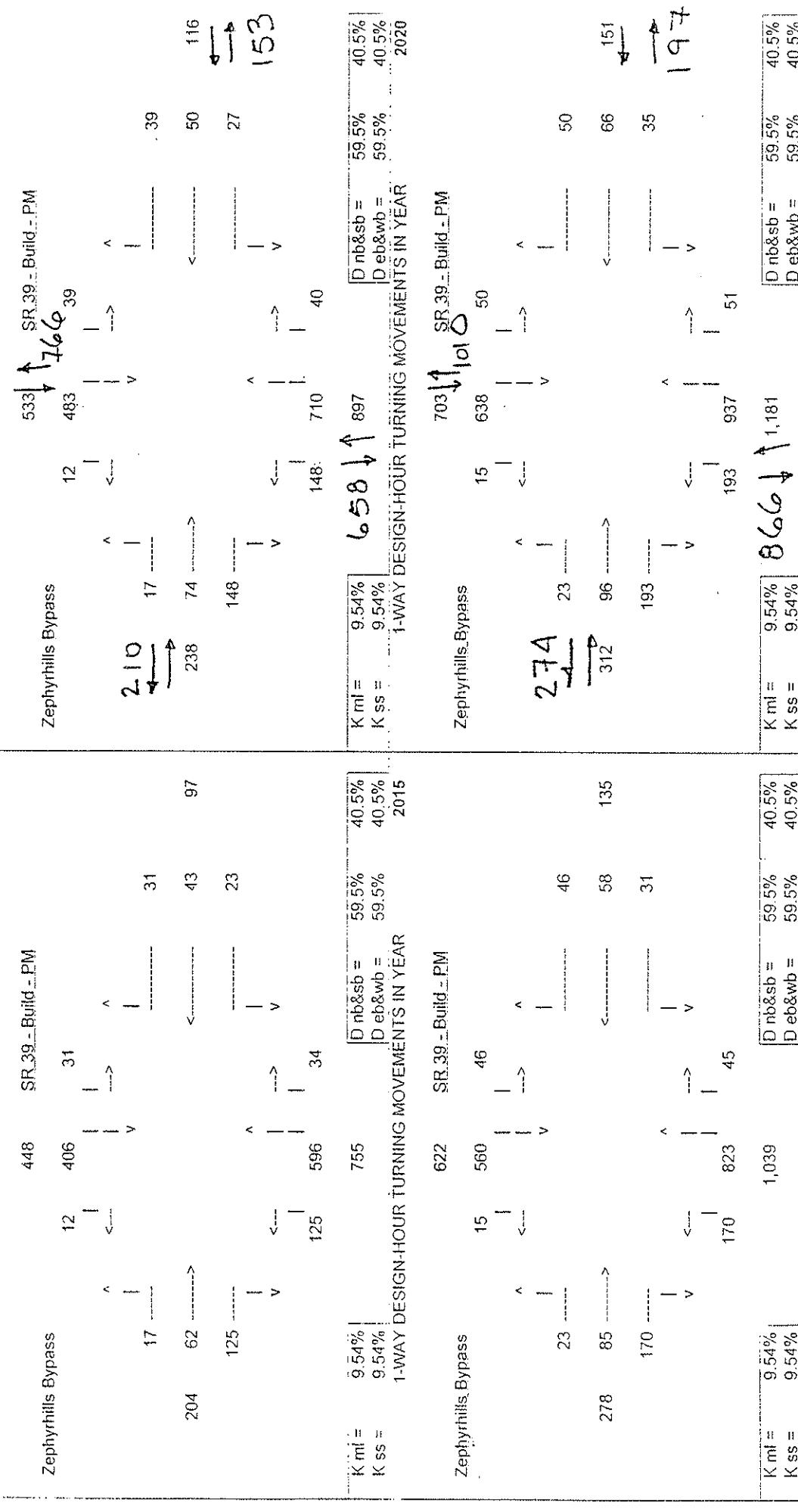
## PROJECT TRAFFIC FOR SR 39 - Build - PM

@ Zephyrhills Bypass Opening Day TO 2010 (From 2005 Base)

## 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR

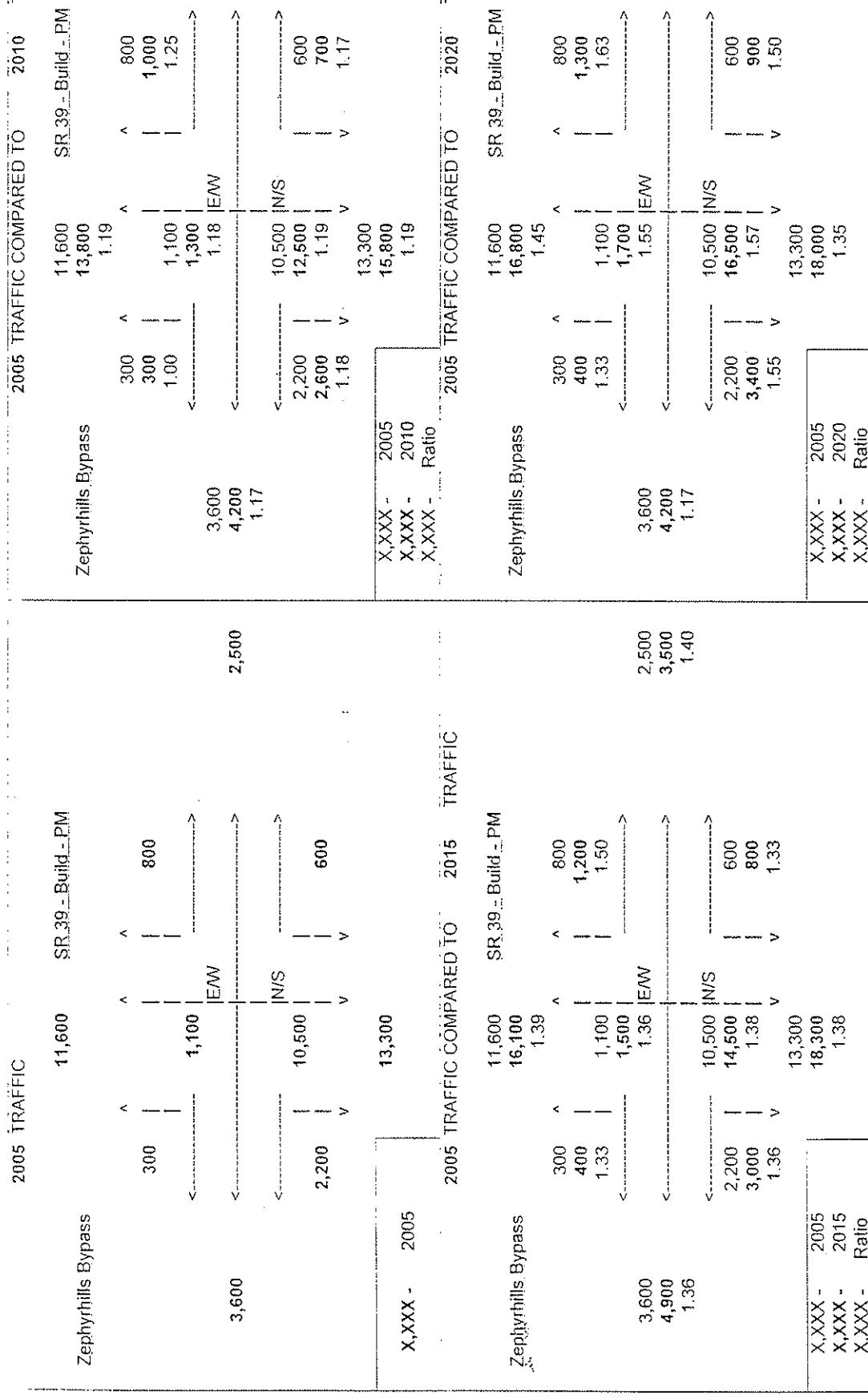


## 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR



## PROJECT TRAFFIC FOR

SR 39 - Build - PM @ Zephyrhills Bypass Opening Day, TO 2010 (From 2005 Base)



## PROJECT TRAFFIC FOR

SR 39 - Build - PM

@ Zephyrhills Bypass Opening Day TO 2010 (From 2005 Base)

## 2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV

| Zephyrhills Bypass   |        | (4) SR 39 - Build - PM |                 | 2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV |             | Zephyrhills Bypass |                | (4) SR 39 - Build - PM |         | 2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV |                        |
|----------------------|--------|------------------------|-----------------|--|-------------|--------------------|----------------|------------------------|---------|--|------------------------|
| (2)                  | ^      | (4) 406                | (19) 31         | 2.90   <--  1.63 ^                       | v   -->   ^ | (2) 17   <--  2.90 | v   -->   2.03 | (4) 483                | (19) 39 | Zephyrhills Bypass                       | (4) SR 39 - Build - PM |
| 17                   |        | 12   2.22              | 31              | v   ^                                    | v   ^       | 17   1             | v   ^          | 12   2.64              | 39      | Zephyrhills Bypass                       | (4) SR 39 - Build - PM |
| 8.51                 | -----  | -----                  | -----           | -----                                    | -----       | 8.51               | -----          | -----                  | -----   | -----                                    | -----                  |
| (88)                 | -----> | -----                  | -----           | -----                                    | -----       | (57) 43            | -----          | -----                  | -----   | -----                                    | -----                  |
| 62                   | -----> | -----                  | -----           | -----                                    | -----       | 0.75               | -----          | -----                  | -----   | -----                                    | -----                  |
| 0.71                 | (82)   | 125   <--  97   ^      | v   -->   v   ^ | -----                                    | -----       | (68) 23            | -----          | -----                  | -----   | -----                                    | -----                  |
| 1.52                 | v      | v   ^                  | v   ^           | v   ^                                    | v   ^       | 0.34               | -----          | -----                  | -----   | -----                                    | -----                  |
| (XXX) - Actual       | -----  | 125   (193)   34       | v   (65)   0.52 | -----                                    | -----       | (82) 148           | -----          | -----                  | -----   | -----                                    | -----                  |
| XXX - Calculated DHV | -----  | 1.29   596   0.52      | 3.09   0.52     | -----                                    | -----       | 1.80   v           | -----          | -----                  | -----   | -----                                    | -----                  |
| X.XX - Ratio         | -----  | -----                  | -----           | -----                                    | -----       | (XXX) - Actual     | -----          | -----                  | -----   | -----                                    | -----                  |
| (XXX) - Actual       | -----  | 1.29   596   0.52      | 3.09   0.52     | -----                                    | -----       | 1.52   1.48        | -----          | -----                  | -----   | -----                                    | -----                  |
| XXX - Calculated DHV | -----  | -----                  | -----           | -----                                    | -----       | 1.52   1.48        | -----          | -----                  | -----   | -----                                    | -----                  |
| X.XX - Ratio         | -----  | -----                  | -----           | -----                                    | -----       | 1.52   1.48        | -----          | -----                  | -----   | -----                                    | -----                  |

## 2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV

| Zephyrhills Bypass   |        | (4) SR 39 - Build - PM |                 | 2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV |             | Zephyrhills Bypass |                | (4) SR 39 - Build - PM |         | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |                        |
|----------------------|--------|------------------------|-----------------|--|-------------|--------------------|----------------|------------------------|---------|--|------------------------|
| (2)                  | ^      | (4) 560                | (19) 46         | 3.86   <--  2.44 ^                       | v   -->   ^ | (2) 23   <--  3.86 | v   -->   2.64 | (4) 638                | (19) 50 | Zephyrhills Bypass                       | (4) SR 39 - Build - PM |
| 23                   |        | 15   3.06              | 46              | v   ^                                    | v   ^       | 23   1             | v   ^          | 15   3.48              | 50      | Zephyrhills Bypass                       | (4) SR 39 - Build - PM |
| 11.35                | -----  | -----                  | -----           | -----                                    | -----       | 1.50               | -----          | -----                  | -----   | -----                                    | -----                  |
| (88)                 | -----> | -----                  | -----           | -----                                    | -----       | (57) 58            | -----          | -----                  | -----   | -----                                    | -----                  |
| 85                   | -----> | -----                  | -----           | -----                                    | -----       | 1.02               | -----          | -----                  | -----   | -----                                    | -----                  |
| 0.97                 | (82)   | 170   <--  97   ^      | v   -->   v   ^ | -----                                    | -----       | (88) 96            | -----          | -----                  | -----   | -----                                    | -----                  |
| 2.03                 | v      | v   ^                  | v   ^           | v   ^                                    | v   ^       | 1.10               | -----          | -----                  | -----   | -----                                    | -----                  |
| (XXX) - Actual       | -----  | 170   (193)   45       | v   (65)   0.70 | -----                                    | -----       | (82) 193           | -----          | -----                  | -----   | -----                                    | -----                  |
| XXX - Calculated DHV | -----  | 1.76   823   0.70      | 4.26   0.70     | -----                                    | -----       | 2.35   v           | -----          | -----                  | -----   | -----                                    | -----                  |
| X.XX - Ratio         | -----  | -----                  | -----           | -----                                    | -----       | (XXX) - Actual     | -----          | -----                  | -----   | -----                                    | -----                  |
| (XXX) - Actual       | -----  | 1.76   823   0.70      | 4.26   0.70     | -----                                    | -----       | 1.99   193         | -----          | -----                  | -----   | -----                                    | -----                  |
| XXX - Calculated DHV | -----  | -----                  | -----           | -----                                    | -----       | 1.99   193         | -----          | -----                  | -----   | -----                                    | -----                  |
| X.XX - Ratio         | -----  | -----                  | -----           | -----                                    | -----       | 1.99   193         | -----          | -----                  | -----   | -----                                    | -----                  |

## DATA INPUT

Date:

30-Nov-98

|               |                       |
|---------------|-----------------------|
| Analyst:      | PAP                   |
| Highway:      | SR 39 - Build AM      |
| Intersection: | US 301                |
| From:         | Opening Day           |
| To:           | 2010 (From 2005 Base) |
| County:       | Pasco                 |

North/South Orientation of Mainline?  
(Y/N)

D Factors:

|            |          |                |
|------------|----------|----------------|
| K Factors: | Mainline | Mainline       |
| Sidestreet | 9.54%    | 10.56%         |
| b.         | 59.5%    | Northbound(NB) |

a. Mainline

|       |               |
|-------|---------------|
| 54.1% | Westbound(WB) |
| 45.9% | Eastbound(EB) |
| b.    | 59.5%         |

Do you have FSUTMS Model Year Traffic from which you would like to  
interpolate/extrapolate for project years? (Y/N)

If No: Enter Year and Growth Rates from Base Year:

| Year    | Rate |
|---------|------|
| Base    |      |
| Opening |      |
| Mid     |      |
| Design  |      |

Enter Base Year AADTs for Volume Comparison:  
(uses growth rates to calculate other project years)

| Year | From West: EB Approach | From East: WB Approach | From North: SB Approach | From South: NB Approach | Total | sbApproach | To South | To North | To East | To West |
|------|------------------------|------------------------|-------------------------|-------------------------|-------|------------|----------|----------|---------|---------|
| 2005 | 0                      | 0                      | 0                       | 0                       | 0     | 0          | 0        | 0        | 0       | 0       |
| 2010 | 0                      | 0                      | 0                       | 0                       | 0     | 0          | 0        | 0        | 0       | 0       |
| 2015 | 0                      | 0                      | 0                       | 0                       | 0     | 0          | 0        | 0        | 0       | 0       |
| 2020 | 0                      | 0                      | 0                       | 0                       | 0     | 0          | 0        | 0        | 0       | 0       |

# DATA INPUT

Date:

30-Nov-98

Analyst: FAPP

IF YES: Enter Project & Model Years:

|         |      |
|---------|------|
| Base    | 2005 |
| Opening | 2010 |
| Mid     | 2015 |
| Design  | 2020 |
| Model   | 2020 |

Enter Base & Model Year AADTs for Interpolation:

|       | From West<br>(EB) Approach | From East<br>(WB) Approach | From South<br>(SB) Approach | From North<br>(NB) Approach |
|-------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| Base  | 11,000                     | 22,400                     | 11,600                      | 45,000                      |
| Model | 2020                       | 17,400                     | 35,500                      | 71,300                      |

Enter "1st Guess" Turning  
Percentages for ADT Balancing:

|           |      |        |      |
|-----------|------|--------|------|
| (EB THRU) | 0.95 | W-to-E | 2005 |
| (EB LT)   | 0.00 | W-to-N | 213  |
| (EB RT)   | 0.05 | W-to-S | 3    |
| (WB THRU) | 0.70 | E-to-W |      |
| (WB RT)   | 0.00 | E-to-N |      |
| (WB LT)   | 0.30 | E-to-S |      |
| (SB RT)   | 0.00 | N-to-W | 400  |
| (SB LT)   | 0.00 | N-to-E | 0    |
| (SB THRU) | 0.00 | N-to-S | 174  |
| (NB LT)   | 0.05 | S-to-W |      |
| (NB RT)   | 0.95 | S-to-E |      |
| (NB THRU) | 0.00 | S-to-N |      |

Desired Closure: 0.010

## AREA FOR CALCULATION: INTERPOLATION

| model - base:<br>diff of yrs: | 15 | 6400 | 13100  | WB     | SB | NB     | 0      | 6800   |
|-------------------------------|----|------|--------|--------|----|--------|--------|--------|
| year                          |    | EB   | 11,000 | 22,400 |    | 0      | 11,600 | 45,000 |
| 2005                          |    |      | 11,133 | 26,767 | 9  | 13,867 | 53,767 |        |
| 2010                          |    |      | 13,133 | 31,133 | 0  | 16,133 | 62,533 |        |
| 2015                          |    |      | 15,267 | 35,500 | 0  | 18,400 | 71,300 |        |
| 2020                          |    |      | 17,400 |        |    |        |        |        |

Actual/Counted Traffic:

|      |     |
|------|-----|
| 2005 | 213 |
|      |     |
|      |     |
|      |     |
|      |     |

## PROJECT TRAFFIC FOR

@ US 301

Opening Day

TO 2010 (From 2005 Base)

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2005

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2010

| SR 39 - Build - AM |    | US 301 |    | SR 39 - Build - AM |       | US 301 |       |
|--------------------|----|--------|----|--------------------|-------|--------|-------|
| 0                  | 0% | 0      | 0% | 0                  | 0%    | 0      | 0%    |
| 0                  | ^  | 0      | ^  | 0                  | ^     | 0      | ^     |
| 0                  | 0  | 0      | 0  | 0                  | 0     | 0      | 0     |
| 5,500              |    |        |    | 6,600              | 99% < |        |       |
| 11,000             |    |        |    | 13,200             | 1% <  |        |       |
|                    |    |        |    |                    |       | 82     | 100   |
|                    |    |        |    |                    |       | 35     | 1%    |
|                    |    |        |    |                    |       | 13,800 | 99%   |
|                    |    |        |    |                    |       | 6,900  | 6,865 |

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

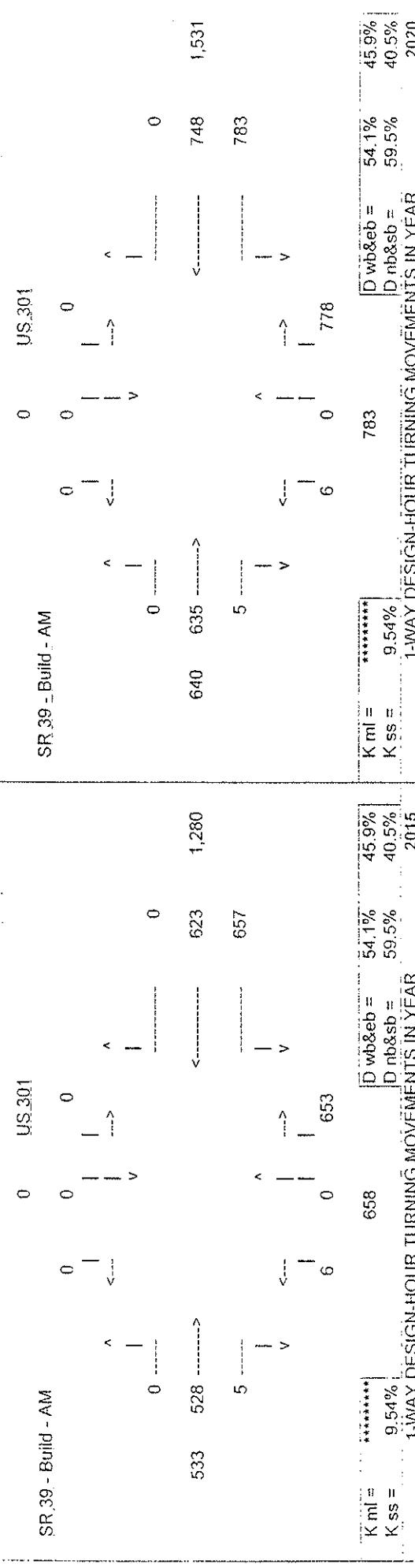
## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2010

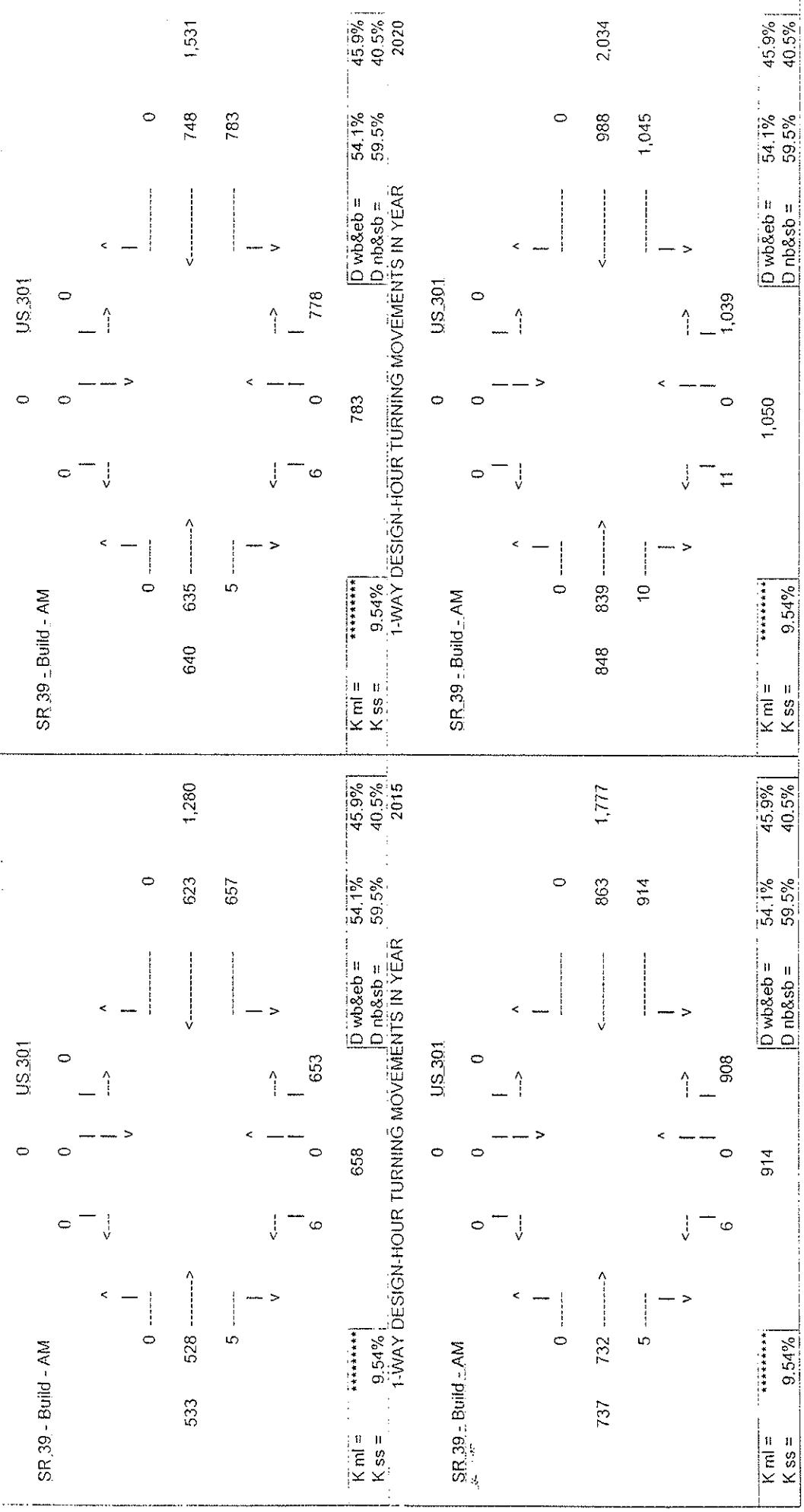
| SR 39 - Build - AM |     | US 301 |    | SR 39 - Build - AM |        | US 301 |    |
|--------------------|-----|--------|----|--------------------|--------|--------|----|
| 0                  | 0%  | 0      | 0% | 0                  | 0%     | 0      | 0% |
| 0                  | ^   | 0      | ^  | 0                  | ^      | 0      | ^  |
| 0                  | 0   | 0      | 0  | 0                  | 0      | 0      | 0  |
| 0%                 | <   | EW     | >  | 0%                 | <      | EW     | >  |
| 7,500              | <   | 15,100 | >  | 7,600              | <      | 17,300 | >  |
| 7,600              | 99% | N/S    |    | 15,600             | 8,700  | 8,700  | 0% |
| 15,200             | 1%  |        |    | 31,100             | 17,500 | 17,300 |    |
| 93                 | 100 | 0      |    | 49%                | 51%    |        |    |
| 40                 | 1%  | 16,000 | v  | 7,991              | 105    | 200    |    |
|                    |     | 16,100 | v  | 7,960              | 46     | 0%     |    |
|                    |     | 8,000  |    |                    | 18,500 | 18,300 |    |
|                    |     |        |    |                    | 9,200  | 9,154  |    |
|                    |     |        |    |                    |        | 9,121  |    |

PROJECT TRAFFIC FOR SR 39 - Build - AM @ US 301 : Opening Day TO 2010 (From 2005 Base)

#### 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR

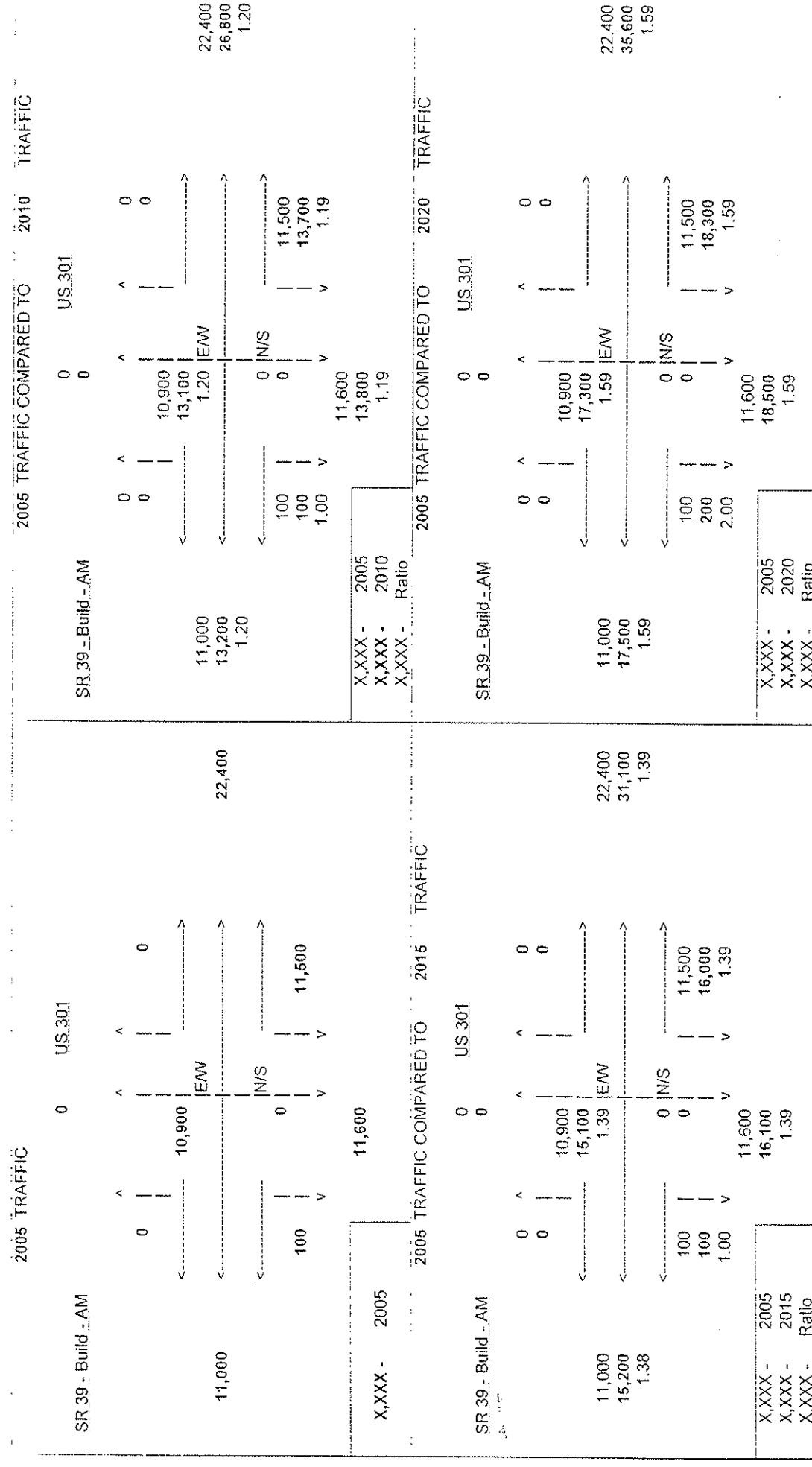


#### 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR



## PROJECT TRAFFIC FOR

@ US 301

Opening Day  
TO 2010 (From 2005 Base)

PROJECT TRAFFIC FOR SR 39 - Build - AM @ US 301 ... Opening Day TO 2010 DHV 2010 (From 2005 Base)

| 2005 ACTUAL TRAFFIC COMPARED TO 2005 DHV |                      |              |                | 2005 ACTUAL TRAFFIC COMPARED TO 2010 DHV |              |                |                      |
|--|----------------------|--------------|----------------|--|--------------|----------------|----------------------|
| SR 39 - Build - AM                       |                      |              |                | SR 39 - Build - AM                       |              |                |                      |
| 0  | 0                    | 0            | US 301         | 0  | 0            | 0              | US 301               |
| 0  | 0                    | ERR          | 0              | 0  | ERR          | 0              | 0                    |
| 0  | ^                    | <--          | --->           | ^  | ^            | --->           | ^                    |
| 0  |                      | v            | v              |  |              | v              | v                    |
| 2.48                                     | (3)                  | 5            | 1.62           | (4)                                      | 6            | 1.62           | (4)                  |
| (213)                                    | 528                  | 2.48         | 5              | 1.42                                     | 0            | 5              | 6                    |
| (XXX) - Actual                           | XXX - Calculated DHV | X.XX - Ratio | (XXX) - Actual | XXX - Calculated DHV                     | X.XX - Ratio | (XXX) - Actual | XXX - Calculated DHV |
| 2005 ACTUAL TRAFFIC COMPARED TO 2015 DHV |                      |              |                | 2005 ACTUAL TRAFFIC COMPARED TO 2020 DHV |              |                |                      |
| SR 39 - Build - AM                       | 0                    | 0            | US 301         | 0  | 0            | 0              | US 301               |
| 0  | 0                    | ERR          | 0              | 0  | ERR          | 0              | 0                    |
| 0  | ^                    | <--          | --->           | ^  | ^            | --->           | ^                    |
| 0  |                      | v            | v              |  |              | v              | v                    |
| 3.44                                     | (3)                  | 5            | 1.62           | (4)                                      | 6            | 1.42           | 0                    |
| (213)                                    | 732                  | 3.44         | 5              | 1.42                                     | 0            | 5              | 2.84                 |
| (XXX) - Actual                           | XXX - Calculated DHV | X.XX - Ratio | (XXX) - Actual | XXX - Calculated DHV                     | X.XX - Ratio | (XXX) - Actual | XXX - Calculated DHV |

## DATA INPUT

Date:

Analyst: PAP  
Date: 30-Nov-98

Highway: SR 39 - Build - PM  
Intersection: US 301  
From: Opening Day  
To: 2010 (From 2005 Base)  
County: PASCO

North/South Orientation of Mainline?  
(Y/N) N

K Factors:  
Sidesstreet Mainline  
9.54% 10.56%  
b. Sidestreet  
59.1% Northbound(NB)  
40.5% Southbound(SB)

D Factors:

a. Mainline

|               |                |
|---------------|----------------|
| 45.9%         | Westbound(WB)  |
| 54.1%         | Eastbound(EB)  |
| b. Sidestreet |                |
| 59.1%         | Northbound(NB) |
| 40.5%         | Southbound(SB) |

Do you have FSUTMS Model Year Traffic from which you would like to interpolate/extrapolate for project years? (Y/N) Y

IF NO: Enter Year and Growth Rates from Base Year:  
Year Rate

|         |  |
|---------|--|
| Base    |  |
| Opening |  |
| Mid     |  |
| Design  |  |

Enter Base Year AADTs for Volume Comparison:  
(uses growth rates to calculate other project years)

| Year | From West:  |             |             | From East:  |             |            | From North: |            |            | From South: |            |            | TOTAL      |            |        |
|------|-------------|-------------|-------------|-------------|-------------|------------|-------------|------------|------------|-------------|------------|------------|------------|------------|--------|
|      | EB Approach | WB Approach | SB Approach | WB Approach | SB Approach | nbApproach | ebApproach  | sbApproach | nbApproach | ebApproach  | sbApproach | nbApproach | ebApproach | sbApproach | TOTAL  |
| 2005 | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0          | 0          | 0           | 0          | 0          | 0          | 0          | 22,500 |
| 2010 | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0          | 0          | 0           | 0          | 0          | 0          | 0          | 26,883 |
| 2015 | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0          | 0          | 0           | 0          | 0          | 0          | 0          | 31,267 |
| 2020 | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0          | 0          | 0           | 0          | 0          | 0          | 0          | 35,650 |

| Year | From West:  |             |             | From East:  |             |            | From North: |            |            | From South: |            |            | TOTAL      |            |        |
|------|-------------|-------------|-------------|-------------|-------------|------------|-------------|------------|------------|-------------|------------|------------|------------|------------|--------|
|      | EB Approach | WB Approach | SB Approach | WB Approach | SB Approach | nbApproach | ebApproach  | sbApproach | nbApproach | ebApproach  | sbApproach | nbApproach | ebApproach | sbApproach | TOTAL  |
| 2005 | 5,500       | 5,500       | 0           | 11,200      | 0           | 0          | 0           | 0          | 0          | 0           | 0          | 0          | 0          | 0          | 22,500 |
| 2010 | 6,567       | 6,567       | 0           | 13,383      | 0           | 0          | 0           | 0          | 0          | 0           | 0          | 0          | 0          | 0          | 26,883 |
| 2015 | 7,633       | 7,633       | 0           | 15,567      | 0           | 0          | 0           | 0          | 0          | 0           | 0          | 0          | 0          | 0          | 31,267 |
| 2020 | 8,700       | 8,700       | 0           | 17,750      | 0           | 0          | 0           | 0          | 0          | 0           | 0          | 0          | 0          | 0          | 35,650 |

# DATA INPUT

Analyst: PAP Date: 30-Nov-98

|         |                              |      |  |  |
|---------|------------------------------|------|--|--|
| IF YES: | Enter Project & Model Years: |      |  |  |
|         | Base                         | 2005 |  |  |
|         | Opening                      | 2010 |  |  |
|         | Mid                          | 2015 |  |  |
|         | Design                       | 2020 |  |  |
|         | Model                        | 2020 |  |  |

## Enter Base & Model Year AADTs for Interpolation:

|      |       | From West | From East | From North | From South | TOTAL  | (NB) Approach | (SB) Approach | (WB) Approach | (EB) Approach | (WB)   | (EB) | model-base | 15     | 6800   |
|------|-------|-----------|-----------|------------|------------|--------|---------------|---------------|---------------|---------------|--------|------|------------|--------|--------|
| Base | Model | 2005      | 2020      | 2005       | 2020       | 45,000 | 45,000        | 45,000        | 45,000        | 45,000        | 45,000 | 2005 | 6400       | 13100  | NB     |
|      |       | 11,000    | 22,400    | 11,600     | 22,400     |        |               |               |               |               |        | 2010 | 13,133     | 22,400 | 0      |
|      |       | 11,000    | 22,400    | 11,600     | 22,400     |        |               |               |               |               |        | 2015 | 15,267     | 26,767 | 13,867 |
|      |       | 17,400    | 35,500    | 18,400     | 35,500     | 71,300 |               |               |               |               |        | 2020 | 17,400     | 35,500 | 16,133 |
|      |       |           |           |            |            |        |               |               |               |               |        |      |            |        | 62,533 |
|      |       |           |           |            |            |        |               |               |               |               |        |      |            |        | 71,300 |

## AREA FOR CALCULATION: INTERPOLATION

|            |    | diff of vols: | year   | area   | WB | SB | NB     |
|------------|----|---------------|--------|--------|----|----|--------|
| model-base | 15 | 6400          | 11,000 | 22,400 | 0  | 0  | 45,000 |
|            |    | 2005          |        |        |    |    |        |
|            |    | 2010          |        |        |    |    |        |
|            |    | 2015          |        |        |    |    |        |
|            |    | 2020          |        |        |    |    |        |

## Actual/Counted Traffic:

|                                 |                    | 2005    | 2005                            | 2005                 | 2005     | 2005                            | 2005                             | 2005                             | 2005                            | 2005                             | 2005                     | 2005   | 2005   | 2005   | 2005   | 2005   | 2005   | 2005   | 2005   | 2005   | 2005   | 2005   | 2005   |  |
|---------------------------------|--------------------|---------|---------------------------------|----------------------|----------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| W-to-E                          | W-to-N             | W-to-S  | E-to-W                          | E-to-N               | E-to-S   | N-to-W                          | N-to-E                           | N-to-S                           | S-to-W                          | S-to-E                           | S-to-N                   | W-to-E | W-to-N | W-to-S | E-to-W | E-to-N | E-to-S | N-to-W | N-to-E | N-to-S | S-to-W | S-to-E | S-to-N |  |
| 0.96                            | 0.00               | 0.04    | 0.53                            | 0.00                 | 0.47     | 0.00                            | 0.00                             | 0.00                             | 0.02                            | 0.00                             | 0.00                     | 463    | 0      | 7      | 272    | 0      | 240    | 0      | 0      | 0      | 0      | 0      | 0      |  |
| (EB THRU)<br>(EB LT)<br>(EB RT) | (EB RT)<br>(EB LT) | (EB RT) | (WB THRU)<br>(WB RT)<br>(WB LT) | (E-to-N)<br>(E-to-S) | (E-to-S) | (SB RT)<br>(SB LT)<br>(SB THRU) | (N-to-W)<br>(N-to-E)<br>(N-to-S) | (S-to-W)<br>(S-to-E)<br>(S-to-N) | (NB LT)<br>(NB RT)<br>(NB THRU) | (S-to-W)<br>(S-to-E)<br>(S-to-N) | (Desired Closure: 0.010) |        |        |        |        |        |        |        |        |        |        |        |        |  |

## PROJECT TRAFFIC FOR

SR 39 : Build - PM

TO ..... Opening Day @ ..... US 301

2010 (From 2005 Base)

## 2-WAY AADT TURNING MOVEMENTS IN YEAR

2005

2010

|                                      |  | 2-WAY AADT TURNING MOVEMENTS IN YEAR |    |     |                    |    |     |        |    |
|--------------------------------------|--|--------------------------------------|----|-----|--------------------|----|-----|--------|----|
|                                      |  | SR 39 : Build - PM                   |    |     | SR 39 : Build - PM |    |     | US 301 |    |
|                                      |  | 0                                    | 0% | 0%  | 0                  | 0% | 0%  | 0      | 0% |
|                                      |  | 0                                    | ^  | ^   | 0                  | ^  | ^   | 0      | 0% |
|                                      |  | 0                                    | 0  | 0   | 0                  | 0  | 0   | 0      | 0  |
| SR 39 : Build - PM                   |  | 0                                    | 0% | 0%  | 0                  | 0% | 0%  | 0      | 0% |
| 0                                    |  | 0                                    | ^  | ^   | 0                  | ^  | ^   | 0      | 0% |
| 0                                    |  | 0                                    | 0  | 0   | 0                  | 0  | 0   | 0      | 0  |
| 5,500                                |  | 5,500                                |    |     |                    |    |     |        |    |
| 11,000                               |  | 11,000                               |    |     |                    |    |     |        |    |
| 1%                                   |  | 1%                                   | 0% | 0%  | 0                  | 0% | 0%  | 0      | 0% |
| 11,600                               |  | 11,600                               |    |     |                    |    |     |        |    |
| 5,800                                |  | 5,800                                |    |     |                    |    |     |        |    |
| 2-WAY AADT TURNING MOVEMENTS IN YEAR |  | 2-WAY AADT TURNING MOVEMENTS IN YEAR |    |     |                    |    |     |        |    |
|                                      |  | SR 39 : Build - PM                   |    |     | SR 39 : Build - PM |    |     | 0      |    |
|                                      |  | 0                                    | 0% | 0%  | 0                  | 0% | 0%  | 0      | 0% |
|                                      |  | 0                                    | ^  | ^   | 0                  | ^  | ^   | 0      | 0% |
|                                      |  | 0                                    | 0  | 0   | 0                  | 0  | 0   | 0      | 0  |
| 0%                                   |  | 0%                                   | <  | E/W | 0%                 | <  | E/W | 0%     | >  |
| 7,500                                |  | 7,500                                |    |     |                    |    |     |        |    |
| 15,100                               |  | 15,100                               |    |     |                    |    |     |        |    |
| 7,600                                |  | 7,600                                |    |     |                    |    |     |        |    |
| 49%                                  |  | 49%                                  |    |     |                    |    |     |        |    |
| 15,600                               |  | 15,600                               |    |     |                    |    |     |        |    |
| 31,100                               |  | 31,100                               |    |     |                    |    |     |        |    |
| 51%                                  |  | 51%                                  |    |     |                    |    |     |        |    |
| N/S                                  |  | N/S                                  |    |     |                    |    |     |        |    |
| 1%                                   |  | 1%                                   | <  | >   | 1%                 | <  | >   | 1%     | >  |
| 93                                   |  | 93                                   |    |     |                    |    |     |        |    |
| 100                                  |  | 100                                  |    |     |                    |    |     |        |    |
| 41                                   |  | 41                                   |    |     |                    |    |     |        |    |
| 1%                                   |  | 1%                                   | v  | v   | v                  | v  | v   | v      | v  |
| 16,100                               |  | 16,100                               |    |     |                    |    |     |        |    |
| 8,000                                |  | 8,000                                |    |     |                    |    |     |        |    |
| 51%                                  |  | 51%                                  |    |     |                    |    |     |        |    |
| 105                                  |  | 105                                  |    |     |                    |    |     |        |    |
| 200                                  |  | 200                                  |    |     |                    |    |     |        |    |
| 46                                   |  | 46                                   |    |     |                    |    |     |        |    |
| 1%                                   |  | 1%                                   | 0% | 0%  | 0                  | 0% | 0%  | 0      | 0% |
| 18,500                               |  | 18,500                               |    |     |                    |    |     |        |    |
| 9,200                                |  | 9,200                                |    |     |                    |    |     |        |    |
| 99%                                  |  | 99%                                  |    |     |                    |    |     |        |    |
| 9,154                                |  | 9,154                                |    |     |                    |    |     |        |    |

## 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR

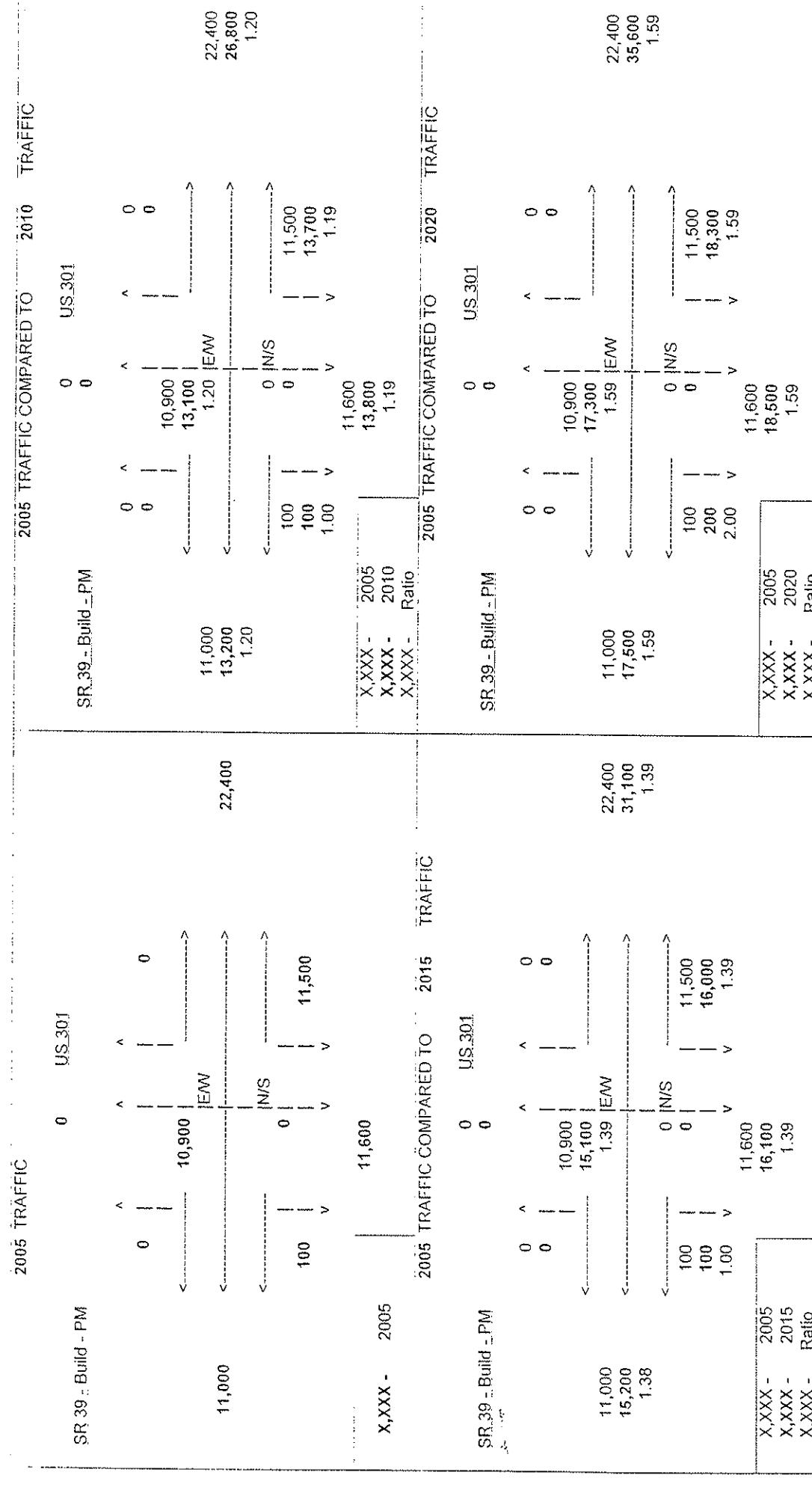
|                    |                                 | 2005  |        | 2010  |                                 |
|--------------------|---------------------------------|---|--------|---|---------------------------------|
|                    |                                 | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |        | 1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR |                                 |
| SR 39 - Build - PM | 0                               | 0   | US 301 | 0   | US 301                          |
| K ml = 9.54%       |                                 |   |        |   |                                 |
| K ss = 9.54%       |                                 |   |        |   |                                 |
| 628 623 ----->     | 0                               | 0   |        |   |                                 |
| 6                  | 1                               | <--   | v      | 1   | ^                               |
| 6                  | 1                               | v   | <--    | v   | ^                               |
| 6                  | 0                               | 1   | <-->   | v   | ^                               |
| 648                | 0                               | 1   | <-->   | v   | ^                               |
| 654                | D wb&eb = 45.9% D nb&sb = 59.1% | 54.1% 40.5%                                 | 2015   | K ml = 9.54% K ss = 9.54%                   | D wb&eb = 45.9% D nb&sb = 59.1% |
| 868 863 ----->     | 0                               | 0   | US 301 | 0   | US 301                          |
| 868 863 ----->     | 0                               | 0   |        |   |                                 |
| 6                  | 1                               | <--   | v      | 1   | ^                               |
| 6                  | 1                               | v   | <--    | v   | ^                               |
| 6                  | 0                               | 1   | <-->   | v   | ^                               |
| 902                | 0                               | 1   | <-->   | v   | ^                               |
| 908                | D wb&eb = 45.9% D nb&sb = 59.1% | 54.1% 40.5%                                 |        | K ml = 9.54% K ss = 9.54%                   | D wb&eb = 45.9% D nb&sb = 59.1% |

SR 39 - Build - PM  
K ml = 9.54% K ss = 9.54%  
D wb&eb = 45.9% D nb&sb = 59.1%  
1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR

SR 39 - Build - PM  
K ml = 9.54% K ss = 9.54%  
D wb&eb = 45.9% D nb&sb = 59.1%  
1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR

K ml = 9.54% K ss = 9.54%  
D wb&eb = 45.9% D nb&sb = 59.1%  
1-WAY DESIGN-HOUR TURNING MOVEMENTS IN YEAR

PROJECT TRAFFIC FOR SR 39 - Build - PM @ US 301 Opening Day TO 2010 (From 2005 Base)



| 2005 ACTUAL TRAFFIC COMPARED TO |                      | 2005 DHV                        |                | 2005 ACTUAL TRAFFIC COMPARED TO |              | 2005 DHV                        |                      | 2005 ACTUAL TRAFFIC COMPARED TO |                      | 2005 DHV                        |                |
|---------------------------------|----------------------|---------------------------------|----------------|---------------------------------|--------------|---------------------------------|----------------------|---------------------------------|----------------------|---------------------------------|----------------|
| SR 39 - Build - PM              |                      | US 301                          |                | SR 39 - Build - PM              |              | US 301                          |                      | SR 39 - Build - PM              |                      | US 301                          |                |
| 0                               | 0                    | 0                               | 0              | 0                               | 0            | 0                               | 0                    | 0                               | 0                    | 0                               | 0              |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| ^                               | <-->                 | ^                               | ^              | ^                               | ^            | ^                               | ^                    | ^                               | ^                    | ^                               | ^              |
| 0                               | 0                    | 0                               | 0              | 0                               | 0            | 0                               | 0                    | 0                               | 0                    | 0                               | 0              |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| (463)                           | 623                  | 1.34                            | (7)            | 6                               | 1            | 0.82                            | 0.94                 | (463)                           | 528                  | 1.94                            | (272)          |
| 623                             | 1.34                 | (7)                             | 6              | 1                               | 0            | 0                               | 0                    | (463)                           | 748                  | 1.62                            | (272)          |
| 0                               | 0                    | 0                               | 0              | 0                               | 0            | 0                               | 0                    | 0                               | 0                    | 0                               | 0              |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| ^                               | <-->                 | ^                               | ^              | ^                               | ^            | ^                               | ^                    | ^                               | ^                    | ^                               | ^              |
| 0                               | 0                    | 0                               | 0              | 0                               | 0            | 0                               | 0                    | 0                               | 0                    | 0                               | 0              |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| (XXX) - Actual                  | XXX - Calculated DHV | X.XX - Ratio                    | (XXX) - Actual | XXX - Calculated DHV            | X.XX - Ratio | (XXX) - Actual                  | XXX - Calculated DHV | (XXX) - Actual                  | XXX - Calculated DHV | X.XX - Ratio                    | (XXX) - Actual |
| 0.94                            | 0                    | 2.42                            | 0.94           | 0                               | 2.42         | 0.94                            | 0                    | 0.94                            | 0                    | 0                               | 0.94           |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| 2005 ACTUAL TRAFFIC COMPARED TO | 2015 DHV             | 2005 ACTUAL TRAFFIC COMPARED TO | 2015 DHV       | 2005 ACTUAL TRAFFIC COMPARED TO | 2015 DHV     | 2005 ACTUAL TRAFFIC COMPARED TO | 2015 DHV             | 2005 ACTUAL TRAFFIC COMPARED TO | 2015 DHV             | 2005 ACTUAL TRAFFIC COMPARED TO | 2015 DHV       |
| SR 39 - Build - PM              | US 301               | SR 39 - Build - PM              | US 301         | SR 39 - Build - PM              | US 301       | SR 39 - Build - PM              | US 301               | SR 39 - Build - PM              | US 301               | SR 39 - Build - PM              | US 301         |
| 0                               | 0                    | 0                               | 0              | 0                               | 0            | 0                               | 0                    | 0                               | 0                    | 0                               | 0              |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| ^                               | <-->                 | ^                               | ^              | ^                               | ^            | ^                               | ^                    | ^                               | ^                    | ^                               | ^              |
| 0                               | 0                    | 0                               | 0              | 0                               | 0            | 0                               | 0                    | 0                               | 0                    | 0                               | 0              |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| (463)                           | 863                  | 1.86                            | (7)            | 6                               | 1            | 0.82                            | 0.94                 | (463)                           | 732                  | 2.13                            | (272)          |
| 863                             | 1.86                 | (7)                             | 6              | 1                               | 0            | 0                               | 0                    | (463)                           | 938                  | 2.13                            | (272)          |
| 0                               | 0                    | 0                               | 0              | 0                               | 0            | 0                               | 0                    | 0                               | 0                    | 0                               | 0              |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| ^                               | <-->                 | ^                               | ^              | ^                               | ^            | ^                               | ^                    | ^                               | ^                    | ^                               | ^              |
| 0                               | 0                    | 0                               | 0              | 0                               | 0            | 0                               | 0                    | 0                               | 0                    | 0                               | 0              |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |
| (XXX) - Actual                  | XXX - Calculated DHV | X.XX - Ratio                    | (XXX) - Actual | XXX - Calculated DHV            | X.XX - Ratio | (XXX) - Actual                  | XXX - Calculated DHV | (XXX) - Actual                  | XXX - Calculated DHV | X.XX - Ratio                    | (XXX) - Actual |
| 0.94                            | 0                    | 3.37                            | 0.94           | 0                               | 3.37         | 0.94                            | 0                    | 1.88                            | 0                    | 3.85                            | 1.88           |
| ERR                             | ERR                  | ERR                             | ERR            | ERR                             | ERR          | ERR                             | ERR                  | ERR                             | ERR                  | ERR                             | ERR            |

## APPENDIX F

HCS WORKSHEETS/2010 AND 2020 LOS ANALYSIS

NO-BUILD ALTERNATIVE

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Road

(N-S) SR 39

Analyst: JW

File Name: SR39-1.HC9

Area Type: Other

1-7-99 AM

Comment: 2010 No Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | < 0  | 1         | 1    | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 25        | 85   | 130  | 195       | 85   | 90   | 130        | 485  | 130  | 125        | 710  | 15   |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1     | 2    | 3                                 | 4 | 5         | 6     | 7     | 8 |
|-------------------|-------|------|-----------------------------------|---|-----------|-------|-------|---|
| EB Left           | *     |      |                                   |   | NB Left   | *     | *     |   |
| Thru              | *     |      |                                   |   | Thru      | *     |       |   |
| Right             | *     |      |                                   |   | Right     | *     |       |   |
| Peds              |       |      |                                   |   | Peds      |       |       |   |
| WB Left           | *     |      |                                   |   | SB Left   | *     | *     |   |
| Thru              | *     |      |                                   |   | Thru      | *     |       |   |
| Right             | *     |      |                                   |   | Right     | *     |       |   |
| Peds              |       |      |                                   |   | Peds      |       |       |   |
| NB Right          |       |      |                                   |   | EB Right  |       |       |   |
| SB Right          |       |      |                                   |   | WB Right  |       |       |   |
| Green             | 27.0A |      |                                   |   | Green     | 10.0A | 38.0A |   |
| Yellow/AR         | 5.0   |      |                                   |   | Yellow/AR | 5.0   | 5.0   |   |
| Cycle Length:     | 90    | secs | Phase combination order: #1 #5 #6 |   |           |       |       |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat Flow |      | v/c Ratio | g/C Ratio | Delay | Approach: |      |
|-------|--------|--------------|------|-----------|-----------|-------|-----------|------|
| Mvmts | Cap    | -----        |      | -----     | -----     | ---   | Delay     | LOS  |
| EB    | L      | 295          | 916  | 0.088     | 0.322     | 13.7  | B         | 15.5 |
|       | TR     | 540          | 1677 | 0.418     | 0.322     | 15.8  | C         |      |
| WB    | L      | 239          | 741  | 0.859     | 0.322     | 35.9  | D         | 26.1 |
|       | TR     | 548          | 1702 | 0.336     | 0.322     | 15.1  | C         |      |
| NB    | L      | 316          | 1752 | 0.434     | 0.611     | 10.9  | B         | 12.7 |
|       | T      | 789          | 1776 | 0.647     | 0.444     | 13.9  | B         |      |
|       | R      | 697          | 1568 | 0.197     | 0.444     | 9.8   | B         |      |
| SB    | L      | 316          | 1752 | 0.418     | 0.611     | 7.7   | B         | 30.3 |
|       | TR     | 787          | 1770 | 0.970     | 0.444     | 34.2  | D         |      |

Intersection Delay = 22.0 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.873

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Road (N-S) SR 39  
 Analyst: JW File Name: SR39-2.HC9  
 Area Type: Other 1-7-99 PM  
 Comment: 2010 No Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | < 0  | 1         | 1    | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 15        | 70   | 130  | 195       | 70   | 115  | 195        | 710  | 195  | 75         | 485  | 10   |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |       |       |                          |    |    |    |   |           |       |       |   |   |
|-------------------|-------|-------|--------------------------|----|----|----|---|-----------|-------|-------|---|---|
| Phase Combination |       |       |                          | 1  | 2  | 3  | 4 |           | 5     | 6     | 7 | 8 |
| EB                | Left  | *     |                          |    |    |    |   | NB        | Left  | *     | * |   |
|                   | Thru  | *     |                          |    |    |    |   |           | Thru  | *     |   |   |
|                   | Right | *     |                          |    |    |    |   |           | Right | *     |   |   |
|                   | Peds  |       |                          |    |    |    |   |           | Peds  |       |   |   |
| WB                | Left  | *     |                          |    |    |    |   | SB        | Left  | *     | * |   |
|                   | Thru  | *     |                          |    |    |    |   |           | Thru  | *     |   |   |
|                   | Right | *     |                          |    |    |    |   |           | Right | *     |   |   |
|                   | Peds  |       |                          |    |    |    |   |           | Peds  |       |   |   |
| NB                | Right |       |                          |    |    |    |   | EB        | Right |       |   |   |
| SB                | Right |       |                          |    |    |    |   | WB        | Right |       |   |   |
| Green             |       | 25.0A |                          |    |    |    |   | Green     | 10.0A | 38.0A |   |   |
| Yellow/AR         |       | 6.0   |                          |    |    |    |   | Yellow/AR | 5.0   | 6.0   |   |   |
| Cycle Length:     | 90    | secs  | Phase combination order: | #1 | #5 | #6 |   |           |       |       |   |   |

| Intersection Performance Summary |        |         |       |       |       |      |       |      |   |  |  |           |
|----------------------------------|--------|---------|-------|-------|-------|------|-------|------|---|--|--|-----------|
| Lane                             | Group: | Adj Sat | v/c   | g/C   |       |      |       |      |   |  |  | Approach: |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay | LOS  |   |  |  |           |
| EB                               | L      | 270     | 868   | 0.059 | 0.311 | 14.1 | B     | 16.0 | C |  |  |           |
|                                  | TR     | 518     | 1665  | 0.407 | 0.311 | 16.1 | C     |      |   |  |  |           |
| WB                               | L      | 248     | 797   | 0.827 | 0.311 | 32.3 | D     | 24.3 | C |  |  |           |
|                                  | TR     | 520     | 1673  | 0.375 | 0.311 | 15.8 | C     |      |   |  |  |           |
| NB                               | L      | 316     | 1752  | 0.649 | 0.622 | 14.0 | B     | 21.3 | C |  |  |           |
|                                  | T      | 809     | 1776  | 0.923 | 0.456 | 26.5 | D     |      |   |  |  |           |
|                                  | R      | 714     | 1568  | 0.287 | 0.456 | 10.0 | B     |      |   |  |  |           |
| SB                               | L      | 316     | 1752  | 0.250 | 0.622 | 9.2  | B     | 12.9 | B |  |  |           |
|                                  | TR     | 806     | 1770  | 0.647 | 0.456 | 13.5 | B     |      |   |  |  |           |

Intersection Delay = 19.2 sec/veh Intersection LOS = C  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.883

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39

Analyst: JW File Name: SR39-9.HC9

Area Type: Other 1-11-99 AM

Comment: 2010 No Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 25        | 75   | 95   | 80        | 165  | 85   | 95         | 400  | 55   | 85         | 585  | 55   |
| Lane W (ft) |           | 12.0 | 12.0 |           | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1       | 2                        | 3  | 4  | 5         | 6     | 7 | 8 |
|-------------------|---------|--------------------------|----|----|-----------|-------|---|---|
| EB Left           | *       |                          |    |    | NB Left   | *     |   |   |
| Thru              | *       |                          |    |    | Thru      | *     |   |   |
| Right             | *       |                          |    |    | Right     | *     |   |   |
| Peds              |         |                          |    |    | Peds      |       |   |   |
| WB Left           | *       |                          |    |    | SB Left   | *     |   |   |
| Thru              | *       |                          |    |    | Thru      | *     |   |   |
| Right             | *       |                          |    |    | Right     | *     |   |   |
| Peds              |         |                          |    |    | Peds      |       |   |   |
| NB Right          |         |                          |    |    | EB Right  |       |   |   |
| SB Right          |         |                          |    |    | WB Right  |       |   |   |
| Green             | 26.0A   |                          |    |    | Green     | 54.0A |   |   |
| Yellow/AR         | 5.0     |                          |    |    | Yellow/AR | 5.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: | #1 | #5 |           |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   | Approach: |      |       |      |   |
|-------|--------|---------|-------|-------|-----------|------|-------|------|---|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay     | LOS  | Delay | LOS  |   |
| EB    | LT     | 407     | 1308  | 0.258 | 0.311     | 15.1 | C     | 14.9 | B |
|       | R      | 488     | 1568  | 0.205 | 0.311     | 14.8 | B     |      |   |
| WB    | LTR    | 446     | 1433  | 0.778 | 0.311     | 24.1 | C     | 24.1 | C |
| NB    | L      | 116     | 187   | 0.860 | 0.622     | 38.4 | D     | 11.1 | B |
|       | T      | 1105    | 1776  | 0.381 | 0.622     | 5.5  | B     |      |   |
|       | R      | 976     | 1568  | 0.059 | 0.622     | 4.3  | A     |      |   |
| SB    | L      | 353     | 568   | 0.252 | 0.622     | 5.0  | A     | 7.2  | B |
|       | TR     | 1091    | 1753  | 0.618 | 0.622     | 7.5  | B     |      |   |

Intersection Delay = 12.3 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.832

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39  
 Analyst: JW File Name: SR39-10.HC9  
 Area Type: Other 1-11-99 PM  
 Comment: 2010 No Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 70        | 160  | 135  | 75        | 120  | 115  | 135        | 555  | 115  | 85         | 380  | 45   |
| Lane W (ft) |           | 12.0 | 12.0 |           | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations   |       |       |                                |   |   |   |           |       |   |   |   |  |
|---------------------|-------|-------|--------------------------------|---|---|---|-----------|-------|---|---|---|--|
| Phase Combination 1 |       |       |                                | 2 | 3 | 4 |           | 5     | 6 | 7 | 8 |  |
| EB                  | Left  | *     |                                |   |   |   | NB        | Left  | * |   |   |  |
|                     | Thru  | *     |                                |   |   |   |           | Thru  | * |   |   |  |
|                     | Right | *     |                                |   |   |   |           | Right | * |   |   |  |
|                     | Peds  |       |                                |   |   |   |           | Peds  |   |   |   |  |
| WB                  | Left  | *     |                                |   |   |   | SB        | Left  | * |   |   |  |
|                     | Thru  | *     |                                |   |   |   |           | Thru  | * |   |   |  |
|                     | Right | *     |                                |   |   |   |           | Right | * |   |   |  |
|                     | Peds  |       |                                |   |   |   |           | Peds  |   |   |   |  |
| NB                  | Right |       |                                |   |   |   | EB        | Right |   |   |   |  |
| SB                  | Right |       |                                |   |   |   | WB        | Right |   |   |   |  |
| Green               |       | 26.0A |                                |   |   |   | Green     | 52.0A |   |   |   |  |
| Yellow/AR           |       | 6.0   |                                |   |   |   | Yellow/AR | 6.0   |   |   |   |  |
| Cycle Length:       | 90    | secs  | Phase combination order: #1 #5 |   |   |   |           |       |   |   |   |  |

| Intersection Performance Summary |        |         |       |       |       |      |   |  |  |  |  |           |
|----------------------------------|--------|---------|-------|-------|-------|------|---|--|--|--|--|-----------|
| Lane                             | Group: | Adj Sat | v/c   | g/C   |       |      |   |  |  |  |  | Approach: |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  |   |  |  |  |  | Delay LOS |
| EB                               | LT     | 282     | 875   | 0.858 | 0.322 | 33.8 | D |  |  |  |  |           |
|                                  | R      | 505     | 1568  | 0.281 | 0.322 | 14.8 | B |  |  |  |  |           |
| WB                               | LTR    | 369     | 1144  | 0.884 | 0.322 | 33.8 | D |  |  |  |  |           |
| NB                               | L      | 308     | 503   | 0.462 | 0.611 | 6.9  | B |  |  |  |  |           |
|                                  | T      | 1085    | 1776  | 0.538 | 0.611 | 7.0  | B |  |  |  |  |           |
|                                  | R      | 958     | 1568  | 0.126 | 0.611 | 4.8  | A |  |  |  |  |           |
| SB                               | L      | 186     | 305   | 0.478 | 0.611 | 7.7  | B |  |  |  |  |           |
|                                  | TR     | 1068    | 1748  | 0.419 | 0.611 | 6.1  | B |  |  |  |  |           |

Intersection Delay = 14.5 sec/veh Intersection LOS = B  
 Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.658

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Zepherhills Bypass (N-S) SR 39

Analyst: JW File Name: SR 39-17.HC9

Area Type: Other 1-11-99 AM

Comment: 2010 No Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 1    | < 0  | 1          | 1    | 1    |
| Volumes     | 130       | 130  | 110  | 15        | 55   | 125  | 110        | 640  | 25   | 140        | 435  | 45   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1       | 2                                 | 3 | 4 | 5         | 6     | 7     | 8 |
|-------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|
| EB Left           | *       |                                   |   |   | NB Left   | *     |       |   |
| Thru              | *       |                                   |   |   | Thru      | *     |       |   |
| Right             | *       |                                   |   |   | Right     | *     |       |   |
| Peds              |         |                                   |   |   | Peds      |       |       |   |
| WB Left           | *       |                                   |   |   | SB Left   | *     |       |   |
| Thru              | *       |                                   |   |   | Thru      | *     |       |   |
| Right             | *       |                                   |   |   | Right     | *     |       |   |
| Peds              |         |                                   |   |   | Peds      |       |       |   |
| NB Right          |         |                                   |   |   | EB Right  |       |       |   |
| SB Right          |         |                                   |   |   | WB Right  |       |       |   |
| Green             | 15.0A   |                                   |   |   | Green     | 15.0A | 45.0P |   |
| Yellow/AR         | 5.0     |                                   |   |   | Yellow/AR | 5.0   | 5.0   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       |      | Approach: |      |   |
|-------|--------|---------|-------|-------|-------|------|-----------|------|---|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay     | LOS  |   |
| EB    | L      | 275     | 1455  | 0.498 | 0.189 | 22.3 | C         | 21.5 | C |
|       | T      | 348     | 1845  | 0.393 | 0.189 | 21.1 | C         |      |   |
|       | R      | 296     | 1568  | 0.392 | 0.189 | 21.1 | C         |      |   |
| WB    | L      | 183     | 971   | 0.087 | 0.189 | 19.5 | C         | 20.9 | C |
|       | T      | 348     | 1845  | 0.166 | 0.189 | 19.8 | C         |      |   |
|       | R      | 296     | 1568  | 0.446 | 0.189 | 21.6 | C         |      |   |
| NB    | L      | 331     | 1752  | 0.350 | 0.189 | 20.8 | C         | 14.6 | B |
|       | TR     | 922     | 1766  | 0.759 | 0.522 | 13.6 | B         |      |   |
| SB    | L      | 331     | 1752  | 0.444 | 0.189 | 21.5 | C         | 11.9 | B |
|       | T      | 927     | 1776  | 0.494 | 0.522 | 9.3  | B         |      |   |
|       | R      | 819     | 1568  | 0.057 | 0.522 | 6.8  | B         |      |   |

Intersection Delay = 15.7 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.638

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Zepherhills Bypass (N-S) SR 39

Analyst: JW File Name: SR 39-18.HC9

Area Type: Other 1-11-99 PM

Comment: 2010 No Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 1    | < 0  | 1          | 1    | 1    |
| Volumes     | 15        | 55   | 110  | 80        | 70   | 40   | 110        | 635  | 80   | 35         | 435  | 10   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 |      | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1       | 2                              | 3 | 4 | 5         | 6     | 7 | 8 |
|-------------------|---------|--------------------------------|---|---|-----------|-------|---|---|
| EB Left           | *       |                                |   |   | NB Left   | *     |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |
| WB Left           | *       |                                |   |   | SB Left   | *     |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |
| NB Right          |         |                                |   |   | EB Right  |       |   |   |
| SB Right          |         |                                |   |   | WB Right  |       |   |   |
| Green             | 35.0A   |                                |   |   | Green     | 43.0A |   |   |
| Yellow/AR         | 6.0     |                                |   |   | Yellow/AR | 6.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 |   |   |           |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat Flow |      | v/c Ratio | g/C Ratio | Delay | Approach: |      |
|-------|--------|--------------|------|-----------|-----------|-------|-----------|------|
| Mvmts | Cap    |              |      |           |           |       | Delay     | LOS  |
| EB    | L      | 604          | 1429 | 0.027     | 0.422     | 9.8   | B         | 10.3 |
|       | T      | 779          | 1845 | 0.074     | 0.422     | 10.0  | B         |      |
|       | R      | 662          | 1568 | 0.175     | 0.422     | 10.5  | B         |      |
| WB    | L      | 629          | 1489 | 0.134     | 0.422     | 10.3  | B         | 10.2 |
|       | T      | 779          | 1845 | 0.095     | 0.422     | 10.1  | B         |      |
|       | R      | 662          | 1568 | 0.063     | 0.422     | 10.0  | B         |      |
| NB    | L      | 217          | 425  | 0.534     | 0.511     | 11.6  | B         | 16.6 |
|       | TR     | 892          | 1746 | 0.843     | 0.511     | 17.4  | C         |      |
| SB    | L      | 82           | 160  | 0.451     | 0.511     | 11.7  | B         | 9.8  |
|       | T      | 908          | 1776 | 0.505     | 0.511     | 9.8   | B         |      |
|       | R      | 801          | 1568 | 0.014     | 0.511     | 7.0   | B         |      |

Intersection Delay = 13.3 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.541

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Streets: (N-S) SR 39 (E-W) US 301

Major Street Direction.... EW

Length of Time Analyzed... 60 (min)

Analyst.....

Date of Analysis..... 1/11/99

Other Information..... 2010 No Build AM Peak Hour

Two-way Stop-controlled Intersection

|             | Eastbound |     |      | Westbound |     |   | Northbound |   |      | Southbound |   |   |
|-------------|-----------|-----|------|-----------|-----|---|------------|---|------|------------|---|---|
|             | L         | T   | R    | L         | T   | R | L          | T | R    | L          | T | R |
| No. Lanes   | 0         | 1   | < 0  | 1         | 1   | 0 | 0          | 0 | 1    | 0          | 0 | 0 |
| Stop/Yield  |           |     | N    |           |     | N |            |   |      |            |   |   |
| Volumes     | 615       | 0   |      | 515       | 925 |   |            |   |      | 710        |   |   |
| PHF         | .95       | .95 |      | .95       | .95 |   |            |   |      | .95        |   |   |
| Grade       | 0         |     |      | 0         |     |   | 0          |   |      |            |   |   |
| MC's (%)    |           |     | 0    |           |     |   |            |   | 0    |            |   |   |
| SU/RV's (%) |           |     | 0    |           |     |   |            |   | 0    |            |   |   |
| CV's (%)    |           |     | 7    |           |     |   |            |   | 7    |            |   |   |
| PCE's       |           |     | 1.07 |           |     |   |            |   | 1.07 |            |   |   |

#### Adjustment Factors

| Vehicle Maneuver           | Critical Gap (tg) | Follow-up Time (tf) |
|----------------------------|-------------------|---------------------|
| Left Turn Major Road       | 5.00              | 2.10                |
| Right Turn Minor Road      | 5.50              | 2.60                |
| Through Traffic Minor Road | 6.00              | 3.30                |
| Left Turn Minor Road       | 6.50              | 3.40                |

Worksheet for TWSC Intersection

Step 1: RT from Minor Street                    NB                    SB  
-----  
Conflicting Flows: (vph)                        647  
Potential Capacity: (pcph)                    651  
Movement Capacity: (pcph)                    651  
Prob. of Queue-Free State:                    0.00  
-----  
Step 2: LT from Major Street                    WB                    EB  
-----  
Conflicting Flows: (vph)                        647  
Potential Capacity: (pcph)                    843  
Movement Capacity: (pcph)                    843  
Prob. of Queue-Free State:                    0.31  
-----

Intersection Performance Summary

| Movement | Flow Rate (pcph) | Move Cap (pcph) | Shared Cap (pcph) | Avg. Total Delay (sec/veh) | 95% Queue Length (veh) | LOS | Approach Delay (sec/veh) |
|----------|------------------|-----------------|-------------------|----------------------------|------------------------|-----|--------------------------|
| NB R     | 799              | 651             |                   | 442.7                      | 85.1                   | F   | 442.7                    |
| WB L     | 580              | 843             |                   | 13.5                       | 6.6                    | C   | 4.8                      |

Intersection Delay = 116.2 sec/veh

HCS: Unsignalized Intersections Release 2.1e SR 39-26.HC0 Page 1  
=====  
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Ph: (904) 392-0378

=====  
Streets: (N-S) SR 39 (E-W) US 301

Major Street Direction.... EW

Length of Time Analyzed... 60 (min)

Analyst.....

Date of Analysis..... 1/11/99

Other Information..... 2010 No Build PM Peak Hour

Two-way Stop-controlled Intersection

|             | Eastbound |     |      | Westbound |   |   | Northbound |   |      | Southbound |   |   |
|-------------|-----------|-----|------|-----------|---|---|------------|---|------|------------|---|---|
|             | L         | T   | R    | L         | T | R | L          | T | R    | L          | T | R |
| No. Lanes   | 0         | 1   | < 0  | 1         | 1 | 0 | 0          | 0 | 1    | 0          | 0 | 0 |
| Stop/Yield  |           |     | N    |           |   | N |            |   |      |            |   |   |
| Volumes     | 725       | 0   | 505  | 715       |   |   |            |   |      | 705        |   |   |
| PHF         | .95       | .95 | .95  | .95       |   |   |            |   |      | .95        |   |   |
| Grade       | 0         |     |      | 0         |   |   | 0          |   |      |            |   |   |
| MC's (%)    |           |     | 0    |           |   |   |            |   | 0    |            |   |   |
| SU/RV's (%) |           |     | 0    |           |   |   |            |   | 0    |            |   |   |
| CV's (%)    |           |     | 7    |           |   |   |            |   | 7    |            |   |   |
| PCE's       |           |     | 1.07 |           |   |   |            |   | 1.07 |            |   |   |

#### Adjustment Factors

| Vehicle Maneuver           | Critical Gap (tg) | Follow-up Time (tf) |
|----------------------------|-------------------|---------------------|
| Left Turn Major Road       | 5.00              | 2.10                |
| Right Turn Minor Road      | 5.50              | 2.60                |
| Through Traffic Minor Road | 6.00              | 3.30                |
| Left Turn Minor Road       | 6.50              | 3.40                |

Worksheet for TWSC Intersection

Step 1: RT from Minor Street                    NB                    SB  
-----  
Conflicting Flows: (vph)                        763  
Potential Capacity: (pcph)                    569  
Movement Capacity: (pcph)                    569  
Prob. of Queue-Free State:                    0.00  
-----  
Step 2: LT from Major Street                    WB                    EB  
-----  
Conflicting Flows: (vph)                        763  
Potential Capacity: (pcph)                    742  
Movement Capacity: (pcph)                    742  
Prob. of Queue-Free State:                    0.23  
-----

Intersection Performance Summary

| Movement | Flow Rate<br>(pcph) | Move Cap<br>(pcph) | Shared Cap<br>(pcph) | Avg. Total Delay<br>(sec/veh) | 95% Queue Length<br>(veh) | Approach LOS | Approach Delay<br>(sec/veh) |
|----------|---------------------|--------------------|----------------------|-------------------------------|---------------------------|--------------|-----------------------------|
| NB R     | 794                 | 569                |                      | 739.8                         | 119.5                     | F            | 739.8                       |
| WB L     | 569                 | 742                |                      | 20.2                          | 9.1                       | D            | 8.4                         |

Intersection Delay = 200.7 sec/veh

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 04-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Road (N-S) SR 39  
 Analyst: JW File Name: SR39-4.HC9  
 Area Type: Other 1-7-99 AM  
 Comment: 2020 No Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | < 0  | 1         | 1    | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 10        | 60   | 160  | 215       | 90   | 130  | 160        | 620  | 145  | 130        | 910  | 15   |
| PHF or PK15 | 0.95      | 0.95 | 0.95 | 0.95      | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| Grade       |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| % Heavy Veh | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 7    | 3    | 3          | 7    | 3    |
| Parking     | N         | N    |      | N         | N    |      | N          | N    |      | N          | N    |      |
| Bus Stops   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Con. Peds   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Ped Button  | (Y/N)     | N    |      | (Y/N)     | N    |      | (Y/N)      | N    |      | (Y/N)      | N    |      |
| Arr Type    | 3         | 3    |      | 3         | 3    |      | 3          | 3    | 3    | 3          | 3    |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |
| Prop. Share |           |      |      |           |      |      |            |      |      |            |      |      |
| Prop. Prot. |           |      |      |           |      |      |            |      |      |            |      |      |

| Signal Operations |         |                                   |   |   |           |       |       |   |  |
|-------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|--|
| Phase Combination | 1       | 2                                 | 3 | 4 | 5         | 6     | 7     | 8 |  |
| EB Left           | *       |                                   |   |   | NB Left   | *     | *     |   |  |
| Thru              | *       |                                   |   |   | Thru      | *     |       |   |  |
| Right             | *       |                                   |   |   | Right     | *     |       |   |  |
| Peds              |         |                                   |   |   | Peds      |       |       |   |  |
| WB Left           | *       |                                   |   |   | SB Left   | *     | *     |   |  |
| Thru              | *       |                                   |   |   | Thru      | *     |       |   |  |
| Right             | *       |                                   |   |   | Right     | *     |       |   |  |
| Peds              |         |                                   |   |   | Peds      |       |       |   |  |
| NB Right          |         |                                   |   |   | EB Right  |       |       |   |  |
| SB Right          |         |                                   |   |   | WB Right  |       |       |   |  |
| Green             | 25.0A   |                                   |   |   | Green     | 10.0A | 38.0A |   |  |
| Yellow/AR         | 6.0     |                                   |   |   | Yellow/AR | 5.0   | 6.0   |   |  |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |  |

| Intersection Performance Summary |        |         |       |       |       |      |           |       |     |
|----------------------------------|--------|---------|-------|-------|-------|------|-----------|-------|-----|
| Lane                             | Group: | Adj Sat | v/c   | g/C   | Delay | LOS  | Approach: | Delay | LOS |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  |           |       |     |
| EB                               | L      | 219     | 705   | 0.050 | 0.311 | 14.0 | B         | 16.4  | C   |
|                                  | TR     | 511     | 1643  | 0.452 | 0.311 | 16.5 | C         |       |     |
| WB                               | L      | 221     | 709   | 1.025 | 0.311 | 74.2 | F         | 44.9  | E   |
|                                  | TR     | 523     | 1681  | 0.444 | 0.311 | 16.4 | C         |       |     |
| NB                               | L      | 316     | 1752  | 0.532 | 0.622 | 12.3 | B         | 15.6  | C   |
|                                  | T      | 809     | 1776  | 0.807 | 0.456 | 17.9 | C         |       |     |
|                                  | R      | 714     | 1568  | 0.214 | 0.456 | 9.6  | B         |       |     |
| SB                               | L      | 316     | 1752  | 0.434 | 0.622 | 9.1  | B         | *     | *   |
|                                  | TR     | 807     | 1771  | 1.207 | 0.456 | *    | *         |       |     |

Intersection Delay = \* (sec/veh) Intersection LOS = \*  
 (g/C)\*(V/c) is greater than one. Calculation of D1 is infeasible.

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 01-07-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Road (N-S) SR 39  
 Analyst: JW File Name: SR39-3.HC9  
 Area Type: Other 1-7-99 PM  
 Comment: 2020 No Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | < 0  | 1         | 1    | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 15        | 60   | 160  | 215       | 90   | 130  | 235        | 915  | 215  | 90         | 620  | 15   |
| PHF or PK15 | 0.95      | 0.95 | 0.95 | 0.95      | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 | 0.95       | 0.95 | 0.95 |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| Grade       |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| % Heavy Veh | 3         | 3    | 3    | 3         | 3    | 3    | 3          | 7    | 3    | 3          | 7    | 3    |
| Parking     | N         | N    |      | N         | N    |      | N          | N    |      | N          | N    |      |
| Bus Stops   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Con. Peds   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Ped Button  | (Y/N)     | N    |      | (Y/N)     | N    |      | (Y/N)      | N    |      | (Y/N)      | N    |      |
| Arr Type    | 3         | 3    |      | 3         | 3    |      | 3          | 3    | 3    | 3          | 3    |      |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |
| Prop. Share |           |      |      |           |      |      |            |      |      |            |      |      |
| Prop. Prot. |           |      |      |           |      |      |            |      |      |            |      |      |

Signal Operations

| Phase Combination | 1       | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
|-------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| EB Left           | *       |                                   |   |   | NB Left   | *     | *     |   |   |
| Thru              | *       |                                   |   |   | Thru      | *     |       |   |   |
| Right             | *       |                                   |   |   | Right     | *     |       |   |   |
| Peds              |         |                                   |   |   | Peds      |       |       |   |   |
| WB Left           | *       |                                   |   |   | SB Left   | *     | *     |   |   |
| Thru              | *       |                                   |   |   | Thru      | *     |       |   |   |
| Right             | *       |                                   |   |   | Right     | *     |       |   |   |
| Peds              |         |                                   |   |   | Peds      |       |       |   |   |
| NB Right          |         |                                   |   |   | EB Right  |       |       |   |   |
| SB Right          |         |                                   |   |   | WB Right  |       |       |   |   |
| Green             | 25.0A   |                                   |   |   | Green     | 10.0A | 38.0A |   |   |
| Yellow/AR         | 6.0     |                                   |   |   | Yellow/AR | 5.0   | 6.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       | Approach: |       |      |   |
|-------|--------|---------|-------|-------|-------|-----------|-------|------|---|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS       | Delay | LOS  |   |
| EB    | L      | 219     | 705   | 0.073 | 0.311 | 14.1      | B     | 16.3 | C |
|       | TR     | 511     | 1643  | 0.452 | 0.311 | 16.5      | C     |      |   |
| WB    | L      | 221     | 709   | 1.025 | 0.311 | 74.2      | F     | 44.9 | E |
|       | TR     | 523     | 1681  | 0.444 | 0.311 | 16.4      | C     |      |   |
| NB    | L      | 316     | 1752  | 0.782 | 0.622 | 22.4      | C     | *    | * |
|       | T      | 809     | 1776  | 1.190 | 0.456 | *         | *     |      |   |
|       | R      | 714     | 1568  | 0.316 | 0.456 | 10.2      | B     |      |   |
| SB    | L      | 316     | 1752  | 0.301 | 0.622 | 10.6      | B     | 17.9 | C |
|       | TR     | 806     | 1769  | 0.830 | 0.456 | 19.0      | C     |      |   |

Intersection Delay = \* (sec/veh) Intersection LOS = \*  
 (g/C)\*(V/c) is greater than one. Calculation of D1 is infeasible.

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39  
 Analyst: JW File Name: SR39-11.HC9  
 Area Type: Other 1-11-99 AM  
 Comment: 2020 No Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 30        | 85   | 120  | 110       | 190  | 110  | 120        | 530  | 75   | 110        | 780  | 45   |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      |      |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |       |      |                                   |   |           |       |       |   |   |   |  |  |
|-------------------|-------|------|-----------------------------------|---|-----------|-------|-------|---|---|---|--|--|
| Phase Combination | 1     | 2    | 3                                 | 4 |           |       | 5     | 6 | 7 | 8 |  |  |
| EB Left           | *     |      |                                   |   | NB        | Left  | *     |   |   |   |  |  |
| Thru              | *     |      |                                   |   | Thru      |       | *     |   |   |   |  |  |
| Right             | *     |      |                                   |   | Right     |       | *     |   |   |   |  |  |
| Peds              |       |      |                                   |   | Peds      |       |       |   |   |   |  |  |
| WB Left           | *     |      |                                   |   | SB        | Left  | *     |   |   |   |  |  |
| Thru              | *     |      |                                   |   | Thru      |       | *     |   |   |   |  |  |
| Right             | *     |      |                                   |   | Right     |       | *     |   |   |   |  |  |
| Peds              |       |      |                                   |   | Peds      |       |       |   |   |   |  |  |
| NB Right          |       |      |                                   |   | EB        | Right |       |   |   |   |  |  |
| SB Right          |       |      |                                   |   | WB        | Right |       |   |   |   |  |  |
| Green             | 22.0A |      |                                   |   | Green     | 15.0A | 38.0P |   |   |   |  |  |
| Yellow/AR         | 5.0   |      |                                   |   | Yellow/AR | 5.0   | 5.0   |   |   |   |  |  |
| Cycle Length:     | 90    | secs | Phase combination order: #1 #5 #6 |   |           |       |       |   |   |   |  |  |

| Lane | Mvmnts | Group: Cap | Intersection Performance Summary |           |           |       |     |       |     | Approach: |     |       |
|------|--------|------------|----------------------------------|-----------|-----------|-------|-----|-------|-----|-----------|-----|-------|
|      |        |            | Adj Sat Flow                     | v/c Ratio | g/C Ratio | Delay | LOS | Delay | LOS | Delay     | LOS | Delay |
| EB   | LT     | 200        | 748                              | 0.606     | 0.267     | 22.3  | C   | 19.7  |     |           |     |       |
|      | R      | 418        | 1568                             | 0.301     | 0.267     | 17.1  | C   |       |     |           |     |       |
| WB   | LTR    | 348        | 1303                             | 1.243     | 0.267     | *     | *   | *     | *   | *         | *   | *     |
|      | L      | 331        | 1752                             | 0.381     | 0.189     | 21.0  | C   | 15.5  |     |           |     |       |
| NB   | T      | 789        | 1776                             | 0.707     | 0.444     | 15.1  | C   |       |     |           |     |       |
|      | R      | 697        | 1568                             | 0.113     | 0.444     | 9.5   | B   |       |     |           |     |       |
| SB   | L      | 331        | 1752                             | 0.350     | 0.189     | 20.8  | C   | *     | *   | *         | *   | *     |
|      | TR     | 783        | 1761                             | 1.109     | 0.444     | *     | *   |       |     |           |     |       |

Intersection Delay = \* (sec/veh) Intersection LOS = \*  
 $(g/C) * (v/c)$  is greater than one. Calculation of D1 is infeasible.

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39  
 Analyst: JW File Name: SR 39-12.HC9  
 Area Type: Other 1-11-99 PM  
 Comment: 2020 No Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 85        | 180  | 170  | 95        | 135  | 130  | 170        | 750  | 140  | 70         | 510  | 60   |
| Lane W (ft) |           | 12.0 | 12.0 |           | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |       |      |                                |   |           |       |   |   |   |  |
|-------------------|-------|------|--------------------------------|---|-----------|-------|---|---|---|--|
| Phase Combination | 1     | 2    | 3                              | 4 |           | 5     | 6 | 7 | 8 |  |
| EB Left           | *     |      |                                |   | NB Left   | *     |   |   |   |  |
| Thru              | *     |      |                                |   | Thru      | *     |   |   |   |  |
| Right             | *     |      |                                |   | Right     | *     |   |   |   |  |
| Peds              |       |      |                                |   | Peds      |       |   |   |   |  |
| WB Left           | *     |      |                                |   | SB Left   | *     |   |   |   |  |
| Thru              | *     |      |                                |   | Thru      | *     |   |   |   |  |
| Right             | *     |      |                                |   | Right     | *     |   |   |   |  |
| Peds              |       |      |                                |   | Peds      |       |   |   |   |  |
| NB Right          |       |      |                                |   | EB Right  |       |   |   |   |  |
| SB Right          |       |      |                                |   | WB Right  |       |   |   |   |  |
| Green             | 24.0A |      |                                |   | Green     | 54.0A |   |   |   |  |
| Yellow/AR         | 6.0   |      |                                |   | Yellow/AR | 6.0   |   |   |   |  |
| Cycle Length:     | 90    | secs | Phase combination order: #1 #5 |   |           |       |   |   |   |  |

| Intersection Performance Summary |        |         |       |       |       |      |       |      |           |
|----------------------------------|--------|---------|-------|-------|-------|------|-------|------|-----------|
| Lane                             | Group: | Adj Sat | v/c   | g/C   |       |      |       |      | Approach: |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay | LOS  |           |
| EB                               | LT     | 177     | 591   | 1.569 | 0.300 | *    | *     | *    | *         |
|                                  | R      | 470     | 1568  | 0.381 | 0.300 | 16.3 | C     |      |           |
| WB                               | LTR    | 269     | 897   | 1.408 | 0.300 | *    | *     | *    | *         |
| NB                               | L      | 190     | 300   | 0.944 | 0.633 | 45.3 | E     | 13.8 | B         |
|                                  | T      | 1125    | 1776  | 0.702 | 0.633 | 8.4  | B     |      |           |
|                                  | R      | 993     | 1568  | 0.148 | 0.633 | 4.3  | A     |      |           |
| SB                               | L      | 82      | 129   | 0.903 | 0.633 | 56.1 | E     | 11.8 | B         |
|                                  | TR     | 1107    | 1748  | 0.542 | 0.633 | 6.4  | B     |      |           |

Intersection Delay = \* (sec/veh) Intersection LOS = \*  
 $(g/C) * (V/C)$  is greater than one. Calculation of D1 is infeasible.

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Zepherhills Bypass (N-S) SR 39  
 Analyst: JW File Name: SR 39-19.HC9  
 Area Type: Other 1-11-99 AM  
 Comment: 2020 No Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 1    | < 0  | 1          | 1    | 1    |
| Volumes     | 150       | 150  | 135  | 20        | 55   | 140  | 135        | 850  | 30   | 155        | 580  | 50   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 |      | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |       |       |                                   |   |   |           |       |       |   |   |
|-------------------|-------|-------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| Phase Combination |       | 1     | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
| EB                | Left  | *     |                                   |   |   | NB        | Left  | *     |   |   |
|                   | Thru  | *     |                                   |   |   |           | Thru  | *     |   |   |
|                   | Right | *     |                                   |   |   |           | Right | *     |   |   |
|                   | Peds  |       |                                   |   |   |           | Peds  |       |   |   |
| WB                | Left  | *     |                                   |   |   | SB        | Left  | *     |   |   |
|                   | Thru  | *     |                                   |   |   |           | Thru  | *     |   |   |
|                   | Right | *     |                                   |   |   |           | Right | *     |   |   |
|                   | Peds  |       |                                   |   |   |           | Peds  |       |   |   |
| NB                | Right |       |                                   |   |   | EB        | Right |       |   |   |
| SB                | Right |       |                                   |   |   | WB        | Right |       |   |   |
| Green             |       | 15.0A |                                   |   |   | Green     | 15.0A | 45.0P |   |   |
| Yellow/AR         |       | 5.0   |                                   |   |   | Yellow/AR | 5.0   | 5.0   |   |   |
| Cycle Length:     | 90    | secs  | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

| Intersection Performance Summary |        |           |         |          |           |       |       |     |           |     |
|----------------------------------|--------|-----------|---------|----------|-----------|-------|-------|-----|-----------|-----|
| Lane                             | Group: | Adj Mvmts | Sat Cap | v/c Flow | g/C Ratio | Ratio | Delay | LOS | Approach: |     |
|                                  |        |           |         |          |           |       |       |     | Delay     | LOS |
| EB                               | L      | 275       | 275     | 1455     | 0.575     | 0.189 | 23.6  | C   | 22.4      | C   |
|                                  | T      | 348       | 348     | 1845     | 0.453     | 0.189 | 21.6  | C   |           |     |
|                                  | R      | 296       | 296     | 1568     | 0.479     | 0.189 | 22.0  | C   |           |     |
| WB                               | L      | 162       | 162     | 857      | 0.130     | 0.189 | 19.6  | C   | 21.3      | C   |
|                                  | T      | 348       | 348     | 1845     | 0.166     | 0.189 | 19.8  | C   |           |     |
|                                  | R      | 296       | 296     | 1568     | 0.496     | 0.189 | 22.2  | C   |           |     |
| NB                               | L      | 331       | 331     | 1752     | 0.429     | 0.189 | 21.4  | C   | 35.6      | D   |
|                                  | TR     | 923       | 923     | 1767     | 1.005     | 0.522 | 37.8  | D   |           |     |
| SB                               | L      | 331       | 331     | 1752     | 0.492     | 0.189 | 22.0  | C   | 13.2      | B   |
|                                  | T      | 927       | 927     | 1776     | 0.659     | 0.522 | 11.3  | B   |           |     |
|                                  | R      | 819       | 819     | 1568     | 0.065     | 0.522 | 6.9   | B   |           |     |

Intersection Delay = 24.8 sec/veh Intersection LOS = C  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.807

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e  
 Center For Microcomputers In Transportation

10-27-1999

Streets: (E-W) Zepherhills Bypass

(N-S) SR 39

Analyst: JW

File Name: SR 39-20.HC9

Area Type: Other

1-11-99 PM

Comment: 2020 No Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 1    | < 0  | 1          | 1    | 1    |
| Volumes     | 30        | 75   | 140  | 90        | 75   | 50   | 140        | 855  | 30   | 65         | 585  | 20   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1       | 2                              | 3 | 4 | 5         | 6     | 7 | 8 |
|-------------------|---------|--------------------------------|---|---|-----------|-------|---|---|
| EB Left           | *       |                                |   |   | NB Left   | *     |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |
| WB Left           | *       |                                |   |   | SB Left   | *     |   |   |
| Thru              | *       |                                |   |   | Thru      | *     |   |   |
| Right             | *       |                                |   |   | Right     | *     |   |   |
| Peds              |         |                                |   |   | Peds      |       |   |   |
| NB Right          |         |                                |   |   | EB Right  |       |   |   |
| SB Right          |         |                                |   |   | WB Right  |       |   |   |
| Green             | 23.0A   |                                |   |   | Green     | 55.0A |   |   |
| Yellow/AR         | 6.0     |                                |   |   | Yellow/AR | 6.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 |   |   |           |       |   |   |

Intersection Performance Summary

| Lane   | Group: |      | Adj Sat | v/c   | g/C   | Approach: |       |      |   |
|--------|--------|------|---------|-------|-------|-----------|-------|------|---|
| Mvmnts | Cap    | Flow | Ratio   | Ratio | Delay | LOS       | Delay | LOS  |   |
| EB     | L      | 408  | 1412    | 0.078 | 0.289 | 15.0      | B     | 15.9 | C |
|        | T      | 533  | 1845    | 0.148 | 0.289 | 15.4      | C     |      |   |
|        | R      | 453  | 1568    | 0.325 | 0.289 | 16.4      | C     |      |   |
| WB     | L      | 408  | 1412    | 0.233 | 0.289 | 15.8      | C     | 15.5 | C |
|        | T      | 533  | 1845    | 0.148 | 0.289 | 15.4      | C     |      |   |
|        | R      | 453  | 1568    | 0.117 | 0.289 | 15.2      | C     |      |   |
| NB     | L      | 176  | 274     | 0.834 | 0.644 | 26.6      | D     | 13.3 | B |
|        | TR     | 1138 | 1767    | 0.819 | 0.644 | 11.2      | B     |      |   |
| SB     | L      | 82   | 127     | 0.829 | 0.644 | 39.6      | D     | 9.2  | B |
|        | T      | 1144 | 1776    | 0.538 | 0.644 | 6.0       | B     |      |   |
|        | R      | 1010 | 1568    | 0.021 | 0.644 | 3.7       | A     |      |   |

Intersection Delay = 12.5 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.676

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 Gainesville, FL 32611-2083  
 Ph: (904) 392-0378

Streets: (N-S) SR 39 (E-W) US 301

Major Street Direction.... EW

Length of Time Analyzed... 60 (min)

Analyst.....

Date of Analysis..... 1/11/99

Other Information..... 2020 No Build AM Peak Hour

Two-way Stop-controlled Intersection

|             | Eastbound |     |      | Westbound |   |   | Northbound |   |   | Southbound |   |   |
|-------------|-----------|-----|------|-----------|---|---|------------|---|---|------------|---|---|
|             | L         | T   | R    | L         | T | R | L          | T | R | L          | T | R |
| No. Lanes   | 0         | 1   | < 0  | 1         | 1 | 0 | 0          | 0 | 1 | 0          | 0 | 0 |
| Stop/Yield  |           | N   |      |           | N |   |            |   |   |            |   |   |
| Volumes     | 820       | 0   | 755  | 1165      |   |   |            |   |   | 950        |   |   |
| PHF         | .95       | .95 | .95  | .95       |   |   |            |   |   | .95        |   |   |
| Grade       | 0         |     |      | 0         |   |   | 0          |   |   | 0          |   |   |
| MC's (%)    |           |     | 0    |           |   |   |            |   |   | 0          |   |   |
| SU/RV's (%) |           |     | 0    |           |   |   |            |   |   | 0          |   |   |
| CV's (%)    |           |     | 7    |           |   |   |            |   |   | 7          |   |   |
| PCE's       |           |     | 1.07 |           |   |   |            |   |   | 1.07       |   |   |

#### Adjustment Factors

| Vehicle<br>Maneuver        | Critical<br>Gap (tg) | Follow-up<br>Time (tf) |
|----------------------------|----------------------|------------------------|
| Left Turn Major Road       | 5.00                 | 2.10                   |
| Right Turn Minor Road      | 5.50                 | 2.60                   |
| Through Traffic Minor Road | 6.00                 | 3.30                   |
| Left Turn Minor Road       | 6.50                 | 3.40                   |

Worksheet for TWSC Intersection

Step 1: RT from Minor Street                    NB                    SB  
-----  
Conflicting Flows: (vph)                        863  
Potential Capacity: (pcph)                    506  
Movement Capacity: (pcph)                    506  
Prob. of Queue-Free State:                    0.00  
-----  
Step 2: LT from Major Street                    WB                    EB  
-----  
Conflicting Flows: (vph)                        863  
Potential Capacity: (pcph)                    665  
Movement Capacity: (pcph)                    665  
Prob. of Queue-Free State:                    0.00  
-----

Intersection Performance Summary

| Movement | Flow Rate<br>(pcph) | Move Cap<br>(pcph) | Shared Cap<br>(pcph) | Avg. Total Delay<br>(sec/veh) | 95% Queue Length<br>(veh) | Approach LOS | Approach Delay<br>(sec/veh) |
|----------|---------------------|--------------------|----------------------|-------------------------------|---------------------------|--------------|-----------------------------|
| NB R     | 1070                | 506                | *                    | 284.6                         | F                         | *            |                             |
| WB L     | 851                 | 665                |                      | 532.5                         | 102.5                     | F            | 209.4                       |

Intersection Delay = 630.8 sec/veh

\* The calculated value was greater than 999.9.

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 Ph: (904) 392-0378

Streets: (N-S) SR 39 (E-W) US 301

Major Street Direction.... EW

Length of Time Analyzed... 60 (min)

Analyst.....

Date of Analysis..... 1/11/99

Other Information..... 2020 No Build PM Peak Hour

Two-way Stop-controlled Intersection

|             | Eastbound |     |     | Westbound |   |   | Northbound |   |      | Southbound |   |   |
|-------------|-----------|-----|-----|-----------|---|---|------------|---|------|------------|---|---|
|             | L         | T   | R   | L         | T | R | L          | T | R    | L          | T | R |
| No. Lanes   | 0         | 1   | < 0 | 1         | 1 | 0 | 0          | 0 | 1    | 0          | 0 | 0 |
| Stop/Yield  |           | N   |     |           | N |   |            |   |      |            |   |   |
| Volumes     | 725       | 0   | 605 | 615       |   |   |            |   | 705  |            |   |   |
| PHF         | .95       | .95 | .95 | .95       |   |   |            |   | .95  |            |   |   |
| Grade       | 0         |     |     | 0         |   |   | 0          |   |      |            |   |   |
| MC's (%)    |           |     |     | 0         |   |   |            |   | 0    |            |   |   |
| SU/RV's (%) |           |     |     | 0         |   |   |            |   | 0    |            |   |   |
| CV's (%)    |           |     |     | 7         |   |   |            |   | 7    |            |   |   |
| PCE's       |           |     |     | 1.07      |   |   |            |   | 1.07 |            |   |   |

#### Adjustment Factors

| Vehicle Maneuver           | Critical Gap (tg) | Follow-up Time (tf) |
|----------------------------|-------------------|---------------------|
| Left Turn Major Road       | 5.00              | 2.10                |
| Right Turn Minor Road      | 5.50              | 2.60                |
| Through Traffic Minor Road | 6.00              | 3.30                |
| Left Turn Minor Road       | 6.50              | 3.40                |

Worksheet for TWSC Intersection

Step 1: RT from Minor Street NB SB

Conflicting Flows: (vph) 763  
Potential Capacity: (pcph) 569  
Movement Capacity: (pcph) 569  
Prob. of Queue-Free State: 0.00

Step 2: LT from Major Street WB EB

Conflicting Flows: (vph) 763  
Potential Capacity: (pcph) 742  
Movement Capacity: (pcph) 742  
Prob. of Queue-Free State: 0.08

Intersection Performance Summary

| Movement | Flow Rate (pcph) | Move Cap (pcph) | Shared Cap (pcph) | Avg. Total Delay (sec/veh) | 95% Queue Length (veh) | LOS | Approach Delay (sec/veh) |
|----------|------------------|-----------------|-------------------|----------------------------|------------------------|-----|--------------------------|
| NB R     | 794              | 569             |                   | 739.8                      | 119.5                  | F   | 739.8                    |
| WB L     | 682              | 742             |                   | 47.5                       | 19.8                   | F   | 23.6                     |

Intersection Delay = 207.7 sec/veh

## APPENDIX G

- HCS WORKSHEETS/2010 AND 2020 LOS ANALYSIS  
BUILD ALTERNATIVE
- CAPACITY TABLE FOR ROADWAY SEGMENT ANALYSIS

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 01-11-2000  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Rd (N-S) Alexander Ext  
 Analyst: DK File Name: AL2020AM.HC9  
 Area Type: Other 1-14-99  
 Comment: Year 2020 Build AM

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 2    | 1    | 1          | 2    | 1    |
| Volumes     | 35        | 90   | 215  | 225       | 85   | 50   | 185        | 240  | 210  | 75         | 425  | 50   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |       |       |                          |    |    |    |    |           |       |       |   |   |
|-------------------|-------|-------|--------------------------|----|----|----|----|-----------|-------|-------|---|---|
| Phase Combination |       |       |                          | 1  | 2  | 3  | 4  |           | 5     | 6     | 7 | 8 |
| EB                | Left  | *     |                          |    |    |    |    | NB        | Left  | *     |   |   |
|                   | Thru  | *     |                          |    |    |    |    |           | Thru  | *     |   |   |
|                   | Right | *     |                          |    |    |    |    |           | Right | *     |   |   |
|                   | Peds  |       |                          |    |    |    |    |           | Peds  |       |   |   |
| WB                | Left  |       | *                        |    |    |    |    | SB        | Left  | *     |   |   |
|                   | Thru  |       | *                        |    |    |    |    |           | Thru  | *     |   |   |
|                   | Right |       | *                        |    |    |    |    |           | Right | *     |   |   |
|                   | Peds  |       |                          |    |    |    |    |           | Peds  |       |   |   |
| NB                | Right |       |                          |    |    |    |    | EB        | Right |       |   |   |
| SB                | Right |       |                          |    |    |    |    | WB        | Right |       |   |   |
| Green             |       | 20.0A | 15.0A                    |    |    |    |    | Green     | 20.0A | 15.0A |   |   |
| Yellow/AR         |       | 5.0   | 5.0                      |    |    |    |    | Yellow/AR | 5.0   | 5.0   |   |   |
| Cycle Length:     | 90    | secs  | Phase combination order: | #1 | #2 | #5 | #6 |           |       |       |   |   |

| Intersection Performance Summary |        |         |       |       |       |      |       |      |  |  |  |           |
|----------------------------------|--------|---------|-------|-------|-------|------|-------|------|--|--|--|-----------|
| Lane                             | Group: | Adj Sat | v/c   | g/C   |       |      |       |      |  |  |  | Approach: |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay | LOS  |  |  |  |           |
| EB                               | L      | 433     | 1770  | 0.086 | 0.244 | 17.0 | C     | 19.7 |  |  |  | C         |
|                                  | T      | 455     | 1863  | 0.209 | 0.244 | 17.5 | C     |      |  |  |  |           |
|                                  | R      | 387     | 1583  | 0.584 | 0.244 | 21.0 | C     |      |  |  |  |           |
| WB                               | L      | 334     | 1770  | 0.709 | 0.189 | 26.7 | D     | 24.2 |  |  |  | C         |
|                                  | T      | 352     | 1863  | 0.253 | 0.189 | 20.2 | C     |      |  |  |  |           |
|                                  | R      | 299     | 1583  | 0.177 | 0.189 | 19.8 | C     |      |  |  |  |           |
| NB                               | L      | 433     | 1770  | 0.451 | 0.244 | 19.2 | C     | 19.2 |  |  |  | C         |
|                                  | T      | 911     | 3725  | 0.292 | 0.244 | 17.9 | C     |      |  |  |  |           |
|                                  | R      | 387     | 1583  | 0.571 | 0.244 | 20.8 | C     |      |  |  |  |           |
| SB                               | L      | 334     | 1770  | 0.236 | 0.189 | 20.1 | C     | 22.8 |  |  |  | C         |
|                                  | T      | 704     | 3725  | 0.666 | 0.189 | 23.6 | C     |      |  |  |  |           |
|                                  | R      | 299     | 1583  | 0.177 | 0.189 | 19.8 | C     |      |  |  |  |           |

Intersection Delay = 21.3 sec/veh Intersection LOS = C  
 Lost Time/Cycle, L = 12.0 sec Critical v/c(x) = 0.626

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 01-11-2000  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Rd

(N-S) Alexander Ext

Analyst: DK

File Name: AL2020PM.HC9

Area Type: Other

1-14-99

Comment: Year 2020 Build PM

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 2    | 1    | 1          | 2    | 1    |
| Volumes     | 10        | 115  | 215  | 205       | 105  | 50   | 175        | 270  | 185  | 85         | 455  | 10   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1     | 2     | 3                        | 4           | 5         | 6     | 7     | 8 |
|-------------------|-------|-------|--------------------------|-------------|-----------|-------|-------|---|
| EB Left           | *     |       |                          |             | NB Left   | *     |       |   |
| Thru              | *     |       |                          |             | Thru      | *     |       |   |
| Right             | *     |       |                          |             | Right     | *     |       |   |
| Peds              |       |       |                          |             | Peds      |       |       |   |
| WB Left           |       | *     |                          |             | SB Left   |       | *     |   |
| Thru              |       | *     |                          |             | Thru      |       | *     |   |
| Right             |       | *     |                          |             | Right     |       | *     |   |
| Peds              |       |       |                          |             | Peds      |       |       |   |
| NB Right          |       |       |                          |             | EB Right  |       |       |   |
| SB Right          |       |       |                          |             | WB Right  |       |       |   |
| Green             | 20.0A | 15.0A |                          |             | Green     | 20.0A | 15.0A |   |
| Yellow/AR         | 5.0   | 5.0   |                          |             | Yellow/AR | 5.0   | 5.0   |   |
| Cycle Length:     | 90    | secs  | Phase combination order: | #1 #2 #5 #6 |           |       |       |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   | Approach: |      |       |      |
|-------|--------|---------|-------|-------|-----------|------|-------|------|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay     | LOS  | Delay | LOS  |
| EB    | L      | 433     | 1770  | 0.025 | 0.244     | 16.7 | C     | 19.8 |
|       | T      | 455     | 1863  | 0.266 | 0.244     | 17.8 | C     |      |
|       | R      | 387     | 1583  | 0.584 | 0.244     | 21.0 | C     |      |
| WB    | L      | 334     | 1770  | 0.646 | 0.189     | 24.8 | C     | 22.8 |
|       | T      | 352     | 1863  | 0.315 | 0.189     | 20.5 | C     |      |
|       | R      | 299     | 1583  | 0.177 | 0.189     | 19.8 | C     |      |
| NB    | L      | 433     | 1770  | 0.425 | 0.244     | 18.9 | C     | 18.8 |
|       | T      | 911     | 3725  | 0.327 | 0.244     | 18.1 | C     |      |
|       | R      | 387     | 1583  | 0.504 | 0.244     | 19.8 | C     |      |
| SB    | L      | 334     | 1770  | 0.266 | 0.189     | 20.2 | C     | 23.8 |
|       | T      | 704     | 3725  | 0.715 | 0.189     | 24.5 | C     |      |
|       | R      | 299     | 1583  | 0.037 | 0.189     | 19.3 | C     |      |

Intersection Delay = 21.2 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 12.0 sec Critical v/c(x) = 0.603

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e  
 Center For Microcomputers In Transportation

11-02-1999

Streets: (E-W) Alexander St.

(N-S) SR 39

Analyst: JW

File Name: SR39-33.HC9

Area Type: Other

1-11-99 AM

Comment: 2010 Build AM Peak Hour

|             | Eastbound |   |   | Westbound |      |      | Northbound |      |      | Southbound |      |   |
|-------------|-----------|---|---|-----------|------|------|------------|------|------|------------|------|---|
|             | L         | T | R | L         | T    | R    | L          | T    | R    | L          | T    | R |
| No. Lanes   | 0         | 0 | 0 | 0         | > 1  | < 0  | 0          | 2    | < 0  | 1          | 2    | 0 |
| Volumes     |           |   |   | 10        | 1    | 320  |            | 295  | 10   | 235        | 620  |   |
| Lane W (ft) |           |   |   |           | 12.0 |      |            | 12.0 |      | 12.0       | 12.0 |   |
| RTOR Vols   |           |   |   |           |      | 0    |            |      | 0    |            |      | 0 |
| Lost Time   |           |   |   | 3.00      | 3.00 | 3.00 |            | 3.00 | 3.00 | 3.00       | 3.00 |   |

Signal Operations

| Phase Combination 1 |         | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
|---------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| EB                  | Left    |                                   |   |   | NB        | Left  |       |   |   |
|                     | Thru    |                                   |   |   |           | Thru  | *     |   |   |
|                     | Right   |                                   |   |   |           | Right | *     |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| WB                  | Left    | *                                 |   |   | SB        | Left  | *     |   |   |
|                     | Thru    | *                                 |   |   |           | Thru  | *     | * |   |
|                     | Right   | *                                 |   |   |           | Right |       |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| NB                  | Right   |                                   |   |   | EB        | Right |       |   |   |
| SB                  | Right   |                                   |   |   | WB        | Right |       |   |   |
| Green               | 25.0A   |                                   |   |   | Green     | 25.0A | 25.0P |   |   |
| Yellow/AR           | 5.0     |                                   |   |   | Yellow/AR | 5.0   | 5.0   |   |   |
| Cycle Length:       | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       | Approach: |       |      |
|-------|--------|---------|-------|-------|-------|-----------|-------|------|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS       | Delay | LOS  |
| WB    | LTR    | 429     | 1431  | 0.813 | 0.300 | 26.6      | D     | 26.6 |
| NB    | TR     | 1060    | 3533  | 0.319 | 0.300 | 15.8      | C     | 15.8 |
| SB    | L      | 531     | 1770  | 0.465 | 0.300 | 17.0      | C     | 8.1  |
|       | T      | 2249    | 3551  | 0.305 | 0.633 | 4.9       | A     | B    |

Intersection Delay = 13.7 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.532

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Alexander St.

(N-S) SR 39

Analyst: JW

File Name: SR39-34.HC9

Area Type: Other

1-11-99 PM

Comment: 2010 Build PM Peak Hour

|             | Eastbound |   |   | Westbound |      |      | Northbound |      |      | Southbound |      |   |
|-------------|-----------|---|---|-----------|------|------|------------|------|------|------------|------|---|
|             | L         | T | R | L         | T    | R    | L          | T    | R    | L          | T    | R |
| No. Lanes   | 0         | 0 | 0 | 0         | > 1  | < 0  | 0          | 2    | < 0  | 1          | 2    | 0 |
| Volumes     |           |   |   | 10        | 1    | 335  |            | 560  | 10   | 240        | 410  |   |
| Lane W (ft) |           |   |   |           | 12.0 |      |            | 12.0 |      | 12.0       | 12.0 |   |
| RTOR Vols   |           |   |   |           |      | 0    |            |      | 0    |            |      | 0 |
| Lost Time   |           |   |   | 3.00      | 3.00 | 3.00 |            | 3.00 | 3.00 | 3.00       | 3.00 |   |

Signal Operations

| Phase Combination 1 |         | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
|---------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| EB                  | Left    |                                   |   |   | NB        | Left  |       |   |   |
|                     | Thru    |                                   |   |   |           | Thru  | *     |   |   |
|                     | Right   |                                   |   |   |           | Right | *     |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| WB                  | Left    | *                                 |   |   | SB        | Left  | *     |   |   |
|                     | Thru    | *                                 |   |   |           | Thru  | *     | * |   |
|                     | Right   | *                                 |   |   |           | Right |       |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| NB                  | Right   |                                   |   |   | EB        | Right |       |   |   |
| SB                  | Right   |                                   |   |   | WB        | Right |       |   |   |
| Green               | 25.0A   |                                   |   |   | Green     | 25.0A | 25.0P |   |   |
| Yellow/AR           | 5.0     |                                   |   |   | Yellow/AR | 5.0   | 5.0   |   |   |
| Cycle Length:       | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat Flow | v/c Ratio | g/C Ratio | Delay | LOS  | Approach: | Delay | LOS |
|-------|--------|--------------|-----------|-----------|-------|------|-----------|-------|-----|
| Mvmts | Cap    |              |           |           |       |      |           |       |     |
| WB    | LTR    | 429          | 1431      | 0.850     | 0.300 | 29.5 | D         | 29.5  | D   |
| NB    | TR     | 1062         | 3542      | 0.593     | 0.300 | 18.0 | C         | 18.0  | C   |
| SB    | L      | 531          | 1770      | 0.477     | 0.300 | 17.2 | C         | 9.0   | B   |
|       | T      | 2249         | 3551      | 0.202     | 0.633 | 4.5  | A         |       |     |

Intersection Delay = 16.7 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.640

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39  
 Analyst: JW File Name: SR 39-14.HC9  
 Area Type: Other 1-11-99 AM  
 Comment: 2010 Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 2    | 1    | 1          | 2    | < 0  |
| Volumes     | 30        | 75   | 95   | 80        | 165  | 100  | 95         | 465  | 55   | 95         | 680  | 60   |
| Lane W (ft) | 12.0      | 12.0 |      |           | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |         |                                   |   |   |           |       |       |   |   |
|-------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| Phase Combination | 1       | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
| EB Left           | *       |                                   |   |   | NB Left   | *     | *     |   |   |
| Thru              | *       |                                   |   |   | Thru      |       | *     |   |   |
| Right             | *       |                                   |   |   | Right     |       | *     |   |   |
| Peds              |         |                                   |   |   | Peds      |       |       |   |   |
| WB Left           | *       |                                   |   |   | SB Left   | *     | *     |   |   |
| Thru              | *       |                                   |   |   | Thru      |       | *     |   |   |
| Right             | *       |                                   |   |   | Right     |       | *     |   |   |
| Peds              |         |                                   |   |   | Peds      |       |       |   |   |
| NB Right          |         |                                   |   |   | EB Right  |       |       |   |   |
| SB Right          |         |                                   |   |   | WB Right  |       |       |   |   |
| Green             | 24.0A   |                                   |   |   | Green     | 10.0A | 39.0P |   |   |
| Yellow/AR         | 6.0     |                                   |   |   | Yellow/AR | 5.0   | 6.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

| Intersection Performance Summary |        |         |       |       |       |      |       |      |           |
|----------------------------------|--------|---------|-------|-------|-------|------|-------|------|-----------|
| Lane                             | Group: | Adj Sat | v/c   | g/C   |       |      |       |      | Approach: |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay | LOS  |           |
| EB                               | LT     | 299     | 997   | 0.371 | 0.300 | 16.4 | C     | 15.9 | C         |
|                                  | R      | 470     | 1568  | 0.213 | 0.300 | 15.3 | C     |      |           |
| WB                               | LTR    | 418     | 1395  | 0.867 | 0.300 | 31.3 | D     | 31.3 | D         |
| NB                               | L      | 337     | 1752  | 0.297 | 0.633 | 5.4  | B     | 9.0  | B         |
|                                  | T      | 1657    | 3551  | 0.310 | 0.467 | 9.7  | B     |      |           |
|                                  | R      | 732     | 1568  | 0.079 | 0.467 | 8.6  | B     |      |           |
| SB                               | L      | 480     | 1752  | 0.208 | 0.633 | 4.5  | A     | 10.3 | B         |
|                                  | TR     | 1637    | 3508  | 0.500 | 0.467 | 11.0 | B     |      |           |

Intersection Delay = 13.9 sec/veh Intersection LOS = B  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.612

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39  
 Analyst: JW File Name: SR 39-13.HC9  
 Area Type: Other 1-11-99 PM  
 Comment: 2010 Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 2    | 1    | 1          | 2    | < 0  |
| Volumes     | 75        | 160  | 130  | 75        | 120  | 115  | 130        | 655  | 110  | 85         | 445  | 50   |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      |      |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination |         | 1                                 | 2 | 3 | 4 |           | 5           | 6 | 7 | 8 |
|-------------------|---------|-----------------------------------|---|---|---|-----------|-------------|---|---|---|
| EB                | Left    | *                                 |   |   |   | NB        | Left        | * | * |   |
|                   | Thru    | *                                 |   |   |   |           | Thru        | * |   |   |
|                   | Right   | *                                 |   |   |   |           | Right       | * |   |   |
|                   | Peds    |                                   |   |   |   |           | Peds        |   |   |   |
| WB                | Left    | *                                 |   |   |   | SB        | Left        | * | * |   |
|                   | Thru    | *                                 |   |   |   |           | Thru        | * |   |   |
|                   | Right   | *                                 |   |   |   |           | Right       | * |   |   |
|                   | Peds    |                                   |   |   |   |           | Peds        |   |   |   |
| NB                | Right   |                                   |   |   |   | EB        | Right       |   |   |   |
| SB                | Right   |                                   |   |   |   | WB        | Right       |   |   |   |
| Green             | 30.0A   |                                   |   |   |   | Green     | 10.0A 35.0P |   |   |   |
| Yellow/AR         | 5.0     |                                   |   |   |   | Yellow/AR | 5.0 5.0     |   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 #6 |   |   |   |           |             |   |   |   |

Intersection Performance Summary

|    | Lane | Group: | Adj Mvmts | Sat Cap | v/c Flow | g/C Ratio | Delay | Approach: LOS | Delay | LOS |
|----|------|--------|-----------|---------|----------|-----------|-------|---------------|-------|-----|
| EB | LT   |        | 303       | 852     | 0.816    | 0.356     | 27.7  | D             | 22.6  | C   |
|    | R    |        | 557       | 1568    | 0.246    | 0.356     | 13.3  | B             |       |     |
| WB | LTR  |        | 403       | 1134    | 0.809    | 0.356     | 24.9  | C             | 24.9  | C   |
| NB | L    |        | 424       | 1752    | 0.323    | 0.578     | 6.2   | B             | 11.7  | B   |
|    | T    |        | 1460      | 3551    | 0.495    | 0.411     | 12.9  | B             |       |     |
|    | R    |        | 645       | 1568    | 0.180    | 0.411     | 10.9  | B             |       |     |
| SB | L    |        | 342       | 1752    | 0.260    | 0.578     | 6.4   | B             | 11.2  | B   |
|    | TR   |        | 1438      | 3497    | 0.380    | 0.411     | 12.0  | B             |       |     |

Intersection Delay = 15.2 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.635

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Zepherhills Bypass (N-S) SR 39  
 Analyst: JW File Name: SR 39-21.HC9  
 Area Type: Other 1-11-99 AM  
 Comment: 2010 Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 2    | < 0  | 1          | 2    | < 0  |
| Volumes     | 130       | 130  | 140  | 30        | 55   | 125  | 140        | 715  | 40   | 140        | 490  | 45   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 |      | 12.0       | 12.0 |      |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |       |       |                                |   |   |           |       |   |   |   |
|-------------------|-------|-------|--------------------------------|---|---|-----------|-------|---|---|---|
| Phase Combination |       | 1     | 2                              | 3 | 4 |           | 5     | 6 | 7 | 8 |
| EB                | Left  | *     |                                |   |   | NB        | Left  | * |   |   |
|                   | Thru  | *     |                                |   |   |           | Thru  | * |   |   |
|                   | Right | *     |                                |   |   |           | Right | * |   |   |
|                   | Peds  |       |                                |   |   |           | Peds  |   |   |   |
| WB                | Left  | *     |                                |   |   | SB        | Left  | * |   |   |
|                   | Thru  | *     |                                |   |   |           | Thru  | * |   |   |
|                   | Right | *     |                                |   |   |           | Right | * |   |   |
|                   | Peds  |       |                                |   |   |           | Peds  |   |   |   |
| NB                | Right |       |                                |   |   | EB        | Right |   |   |   |
| SB                | Right |       |                                |   |   | WB        | Right |   |   |   |
| Green             |       | 25.0A |                                |   |   | Green     | 53.0A |   |   |   |
| Yellow/AR         |       | 6.0   |                                |   |   | Yellow/AR | 6.0   |   |   |   |
| Cycle Length:     | 90    | secs  | Phase combination order: #1 #5 |   |   |           |       |   |   |   |

| Intersection Performance Summary |        |           |         |          |           |       |               |       |     |
|----------------------------------|--------|-----------|---------|----------|-----------|-------|---------------|-------|-----|
| Lane                             | Group: | Adj Mvmts | Sat Cap | v/c Flow | g/C Ratio | Delay | Approach: LOS | Delay | LOS |
| EB                               | L      | 463       | 1489    | 0.296    | 0.311     | 15.3  | C             | 15.2  | C   |
|                                  | T      | 574       | 1845    | 0.239    | 0.311     | 14.9  | B             |       |     |
|                                  | R      | 488       | 1568    | 0.301    | 0.311     | 15.3  | C             |       |     |
| WB                               | L      | 355       | 1141    | 0.090    | 0.311     | 14.2  | B             | 14.8  | B   |
|                                  | T      | 574       | 1845    | 0.101    | 0.311     | 14.2  | B             |       |     |
|                                  | R      | 488       | 1568    | 0.271    | 0.311     | 15.1  | C             |       |     |
| NB                               | L      | 374       | 601     | 0.393    | 0.622     | 5.9   | B             | 5.5   | B   |
|                                  | TR     | 2192      | 3523    | 0.381    | 0.622     | 5.5   | B             |       |     |
| SB                               | L      | 224       | 359     | 0.657    | 0.622     | 11.7  | B             | 6.3   | B   |
|                                  | TR     | 2182      | 3507    | 0.271    | 0.622     | 5.0   | A             |       |     |

Intersection Delay = 8.4 sec/veh Intersection LOS = B  
 Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.539

Streets: (E-W) Zepherhills Bypass

(N-S) SR 39

Analyst: JW

File Name: SR 39-22.HC9

Area Type: Other

1-11-99 PM

Comment: 2010 Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 2    | < 0  | 1          | 2    | < 0  |
| Volumes     | 15        | 75   | 150  | 80        | 70   | 40   | 150        | 710  | 80   | 40         | 485  | 10   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

## Signal Operations

| Phase Combination 1 |         | 2                              | 3 | 4 |           | 5     | 6 | 7 | 8 |
|---------------------|---------|--------------------------------|---|---|-----------|-------|---|---|---|
| EB                  | Left    | *                              |   |   | NB        | Left  | * |   |   |
|                     | Thru    | *                              |   |   |           | Thru  | * |   |   |
|                     | Right   | *                              |   |   |           | Right | * |   |   |
|                     | Peds    |                                |   |   |           | Peds  |   |   |   |
| WB                  | Left    | *                              |   |   | SB        | Left  | * |   |   |
|                     | Thru    | *                              |   |   |           | Thru  | * |   |   |
|                     | Right   | *                              |   |   |           | Right | * |   |   |
|                     | Peds    |                                |   |   |           | Peds  |   |   |   |
| NB                  | Right   |                                |   |   | EB        | Right |   |   |   |
| SB                  | Right   |                                |   |   | WB        | Right |   |   |   |
| Green               | 25.0A   |                                |   |   | Green     | 53.0A |   |   |   |
| Yellow/AR           | 6.0     |                                |   |   | Yellow/AR | 6.0   |   |   |   |
| Cycle Length:       | 90 secs | Phase combination order: #1 #5 |   |   |           |       |   |   |   |

## Intersection Performance Summary

| Lane | Group: | Adj Mvmts | Sat Cap | v/c Flow | g/C Ratio | Ratio | Delay | LOS | Approach: | Delay | LOS |
|------|--------|-----------|---------|----------|-----------|-------|-------|-----|-----------|-------|-----|
| EB   | L      | 445       | 445     | 1429     | 0.036     | 0.311 | 14.0  | B   | 15.1      | C     |     |
|      | T      | 574       | 574     | 1845     | 0.138     | 0.311 | 14.4  | B   |           |       |     |
|      | R      | 488       | 488     | 1568     | 0.324     | 0.311 | 15.5  | C   |           |       |     |
| WB   | L      | 439       | 439     | 1412     | 0.191     | 0.311 | 14.7  | B   | 14.5      | B     |     |
|      | T      | 574       | 574     | 1845     | 0.129     | 0.311 | 14.4  | B   |           |       |     |
|      | R      | 488       | 488     | 1568     | 0.086     | 0.311 | 14.2  | B   |           |       |     |
| NB   | L      | 399       | 399     | 641      | 0.396     | 0.622 | 5.9   | B   | 5.6       | B     |     |
|      | TR     | 2176      | 2176    | 3498     | 0.401     | 0.622 | 5.6   | B   |           |       |     |
| SB   | L      | 203       | 203     | 326      | 0.207     | 0.622 | 4.8   | A   | 4.9       | A     |     |
|      | TR     | 2203      | 2203    | 3540     | 0.249     | 0.622 | 4.9   | A   |           |       |     |

Intersection Delay = 7.4 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.375

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) US 301

(N-S) SR 39

Analyst: JW

File Name: SR39-29.HC9

Area Type: Other

1-11-99 AM

Comment: 2010 Build AM Peak Hour

|             | Eastbound |      |     | Westbound |      |   | Northbound |      |      | Southbound |   |   |
|-------------|-----------|------|-----|-----------|------|---|------------|------|------|------------|---|---|
|             | L         | T    | R   | L         | T    | R | L          | T    | R    | L          | T | R |
| No. Lanes   | 0         | 2    | < 0 | 2         | 2    | 0 | 0          | > 2  | < 0  | 0          | 0 | 0 |
| Volumes     | 635       | 5    |     | 610       | 920  |   | 5          | 1    | 780  |            |   |   |
| Lane W (ft) | 12.0      |      |     | 12.0      | 12.0 |   |            |      | 12.0 |            |   |   |
| RTOR Vols   |           | 0    |     |           |      | 0 |            |      |      | 0          |   |   |
| Lost Time   | 3.00      | 3.00 |     | 3.00      | 3.00 |   | 3.00       | 3.00 | 3.00 |            |   |   |

Signal Operations

| Phase Combination 1 |       | 2     | 3                                 | 4 |           | 5     | 6 | 7 | 8 |
|---------------------|-------|-------|-----------------------------------|---|-----------|-------|---|---|---|
| EB                  | Left  |       |                                   |   | NB        | Left  | * |   |   |
|                     | Thru  |       | *                                 |   |           | Thru  | * |   |   |
|                     | Right |       | *                                 |   |           | Right | * |   |   |
|                     | Peds  |       |                                   |   |           | Peds  |   |   |   |
| WB                  | Left  | *     |                                   |   | SB        | Left  |   |   |   |
|                     | Thru  | *     | *                                 |   |           | Thru  |   |   |   |
|                     | Right |       |                                   |   |           | Right |   |   |   |
|                     | Peds  |       |                                   |   |           | Peds  |   |   |   |
| NB                  | Right |       |                                   |   | EB        | Right |   |   |   |
| SB                  | Right |       |                                   |   | WB        | Right |   |   |   |
| Green               | 25.0A | 23.0A |                                   |   | Green     | 25.0A |   |   |   |
| Yellow/AR           | 5.0   | 6.0   |                                   |   | Yellow/AR | 6.0   |   |   |   |
| Cycle Length:       | 90    | secs  | Phase combination order: #1 #2 #5 |   |           |       |   |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       | Approach: |       |      |
|-------|--------|---------|-------|-------|-------|-----------|-------|------|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS       | Delay | LOS  |
| EB    | TR     | 1075    | 3721  | 0.658 | 0.289 | 19.2      | C     | 19.2 |
| WB    | L      | 1012    | 3374  | 0.653 | 0.300 | 18.8      | C     | 10.9 |
|       | T      | 2318    | 3725  | 0.438 | 0.622 | 5.8       | B     |      |
| NB    | LTR    | 940     | 3022  | 0.923 | 0.311 | 29.7      | D     | 29.7 |

Intersection Delay = 17.7 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.748

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) US 301

(N-S) SR 39

Analyst: JW

File Name: SR39-30.HC9

Area Type: Other

1-11-99 PM

Comment: 2010 Build PM Peak Hour

|             | Eastbound |      |      | Westbound |   |   | Northbound |      |      | Southbound |   |   |
|-------------|-----------|------|------|-----------|---|---|------------|------|------|------------|---|---|
|             | L         | T    | R    | L         | T | R | L          | T    | R    | L          | T | R |
| No. Lanes   | 0         | 2    | < 0  | 2         | 2 | 0 | 0          | > 2  | < 0  | 0          | 0 | 0 |
| Volumes     | 750       | 5    | 565  | 735       |   |   | 5          | 1    | 770  |            |   |   |
| Lane W (ft) | 12.0      |      | 12.0 | 12.0      |   |   | 12.0       |      |      |            |   |   |
| RTOR Vols   |           | 0    |      |           | 0 |   |            |      | 0    |            |   |   |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      |   |   | 3.00       | 3.00 | 3.00 |            |   |   |

Signal Operations

|                     |       |       |                          |           |       |    |   |
|---------------------|-------|-------|--------------------------|-----------|-------|----|---|
| Phase Combination 1 | 2     | 3     | 4                        | 5         | 6     | 7  | 8 |
| EB Left             |       |       |                          | NB Left   | *     |    |   |
| Thru                | *     |       |                          | Thru      | *     |    |   |
| Right               | *     |       |                          | Right     | *     |    |   |
| Peds                |       |       |                          | Peds      |       |    |   |
| WB Left             | *     |       |                          | SB Left   |       |    |   |
| Thru                | *     | *     |                          | Thru      |       |    |   |
| Right               |       |       |                          | Right     |       |    |   |
| Peds                |       |       |                          | Peds      |       |    |   |
| NB Right            |       |       |                          | EB Right  |       |    |   |
| SB Right            |       |       |                          | WB Right  |       |    |   |
| Green               | 25.0A | 23.0A |                          | Green     | 25.0A |    |   |
| Yellow/AR           | 5.0   | 6.0   |                          | Yellow/AR | 6.0   |    |   |
| Cycle Length:       | 90    | secs  | Phase combination order: | #1        | #2    | #5 |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       | Approach: |       |      |   |
|-------|--------|---------|-------|-------|-------|-----------|-------|------|---|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS       | Delay | LOS  |   |
| EB    | TR     | 1075    | 3722  | 0.776 | 0.289 | 21.5      | C     | 21.5 | C |
| WB    | L      | 1012    | 3374  | 0.606 | 0.300 | 18.2      | C     | 10.9 | B |
|       | T      | 2318    | 3725  | 0.351 | 0.622 | 5.3       | B     |      |   |
| NB    | LTR    | 940     | 3022  | 0.913 | 0.311 | 28.6      | D     | 28.6 | D |

Intersection Delay = 18.6 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.766

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Rd  
 Analyst: DK  
 Area Type: Other  
 Comment: Year 2020 Build AM

(N-S) Alexander Ext  
 File Name: AL2020AM.HC9  
 1-14-99

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 2    | 1    | 1          | 2    | < 0  |
| Volumes     | 34        | 92   | 214  | 227       | 83   | 50   | 183        | 239  | 208  | 77         | 423  | 50   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1     | 2     | 3                        | 4           | 5         | 6     | 7     | 8 |
|-------------------|-------|-------|--------------------------|-------------|-----------|-------|-------|---|
| EB Left           | *     |       |                          |             | NB Left   | *     |       |   |
| Thru              | *     |       |                          |             | Thru      | *     |       |   |
| Right             | *     |       |                          |             | Right     | *     |       |   |
| Peds              |       |       |                          |             | Peds      |       |       |   |
| WB Left           |       | *     |                          |             | SB Left   |       | *     |   |
| Thru              |       | *     |                          |             | Thru      |       | *     |   |
| Right             |       | *     |                          |             | Right     |       | *     |   |
| Peds              |       |       |                          |             | Peds      |       |       |   |
| NB Right          |       |       |                          |             | EB Right  |       |       |   |
| SB Right          |       |       |                          |             | WB Right  |       |       |   |
| Green             | 20.0A | 15.0A |                          |             | Green     | 20.0A | 15.0A |   |
| Yellow/AR         | 5.0   | 5.0   |                          |             | Yellow/AR | 5.0   | 5.0   |   |
| Cycle Length:     | 90    | secs  | Phase combination order: | #1 #2 #5 #6 |           |       |       |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat Flow | v/c Ratio | g/C Ratio | Delay | Approach: LOS | Delay | Approach: LOS |
|-------|--------|--------------|-----------|-----------|-------|---------------|-------|---------------|
| Mvmts | Cap    |              |           |           |       |               |       |               |
| EB    | L      | 433          | 1770      | 0.083     | 0.244 | 16.9          | C     | 19.6          |
|       | T      | 455          | 1863      | 0.213     | 0.244 | 17.5          | C     |               |
|       | R      | 387          | 1583      | 0.581     | 0.244 | 21.0          | C     |               |
| WB    | L      | 334          | 1770      | 0.715     | 0.189 | 27.0          | D     | 24.4          |
|       | T      | 352          | 1863      | 0.247     | 0.189 | 20.1          | C     |               |
|       | R      | 299          | 1583      | 0.177     | 0.189 | 19.8          | C     |               |
| NB    | L      | 433          | 1770      | 0.446     | 0.244 | 19.1          | C     | 19.2          |
|       | T      | 911          | 3725      | 0.291     | 0.244 | 17.9          | C     |               |
|       | R      | 387          | 1583      | 0.566     | 0.244 | 20.7          | C     |               |
| SB    | L      | 334          | 1770      | 0.242     | 0.189 | 20.1          | C     | 24.9          |
|       | TR     | 692          | 3666      | 0.755     | 0.189 | 25.6          | D     |               |

Intersection Delay = 21.9 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 12.0 sec Critical v/c(x) = 0.644

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Rd

(N-S) Alexander Ext

Analyst: DK

File Name: AL2020PM.HC9

Area Type: Other

1-14-99

Comment: Year 2020 Build PM

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 2    | 1    | 1          | 2    | < 0  |
| Volumes     | 7         | 116  | 217  | 206       | 104  | 50   | 176        | 270  | 184  | 83         | 456  | 11   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1     | 2     | 3                        | 4           |           | 5     | 6     | 7 | 8 |
|-------------------|-------|-------|--------------------------|-------------|-----------|-------|-------|---|---|
| EB Left           | *     |       |                          |             | NB Left   | *     |       |   |   |
| Thru              | *     |       |                          |             | Thru      | *     |       |   |   |
| Right             | *     |       |                          |             | Right     | *     |       |   |   |
| Peds              |       |       |                          |             | Peds      |       |       |   |   |
| WB Left           |       | *     |                          |             | SB Left   |       | *     |   |   |
| Thru              |       | *     |                          |             | Thru      |       | *     |   |   |
| Right             |       | *     |                          |             | Right     |       | *     |   |   |
| Peds              |       |       |                          |             | Peds      |       |       |   |   |
| NB Right          |       |       |                          |             | EB Right  |       |       |   |   |
| SB Right          |       |       |                          |             | WB Right  |       |       |   |   |
| Green             | 20.0A | 15.0A |                          |             | Green     | 20.0A | 15.0A |   |   |
| Yellow/AR         | 5.0   | 5.0   |                          |             | Yellow/AR | 5.0   | 5.0   |   |   |
| Cycle Length:     | 90    | secs  | Phase combination order: | #1 #2 #5 #6 |           |       |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | G/C   |       |      | Approach: |      |   |
|-------|--------|---------|-------|-------|-------|------|-----------|------|---|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay     | LOS  |   |
| EB    | L      | 433     | 1770  | 0.016 | 0.244 | 16.7 | C         | 19.9 | C |
|       | T      | 455     | 1863  | 0.268 | 0.244 | 17.8 | C         |      |   |
|       | R      | 387     | 1583  | 0.589 | 0.244 | 21.1 | C         |      |   |
| WB    | L      | 334     | 1770  | 0.649 | 0.189 | 24.8 | C         | 22.9 | C |
|       | T      | 352     | 1863  | 0.310 | 0.189 | 20.5 | C         |      |   |
|       | R      | 299     | 1583  | 0.177 | 0.189 | 19.8 | C         |      |   |
| NB    | L      | 433     | 1770  | 0.428 | 0.244 | 19.0 | C         | 18.8 | C |
|       | T      | 911     | 3725  | 0.327 | 0.244 | 18.1 | C         |      |   |
|       | R      | 387     | 1583  | 0.501 | 0.244 | 19.8 | C         |      |   |
| SB    | L      | 334     | 1770  | 0.260 | 0.189 | 20.2 | C         | 24.4 | C |
|       | TR     | 701     | 3712  | 0.737 | 0.189 | 25.1 | D         |      |   |

Intersection Delay = 21.4 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 12.0 sec Critical v/c(x) = 0.610

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Road

(N-S) SR 39

Analyst: JW

File Name: SR39-5.HC9

Area Type: Other

1-7-99 AM

Comment: 2020 Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | < 0  | 1         | 1    | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 10        | 100  | 140  | 180       | 150  | 95   | 140        | 230  | 125  | 95         | 340  | 10   |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination | 1       | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
|-------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| EB Left           | *       |                                   |   |   | NB Left   | *     | *     |   |   |
| Thru              | *       |                                   |   |   | Thru      |       | *     |   |   |
| Right             | *       |                                   |   |   | Right     |       | *     |   |   |
| Peds              |         |                                   |   |   | Peds      |       |       |   |   |
| WB Left           | *       |                                   |   |   | SB Left   | *     | *     |   |   |
| Thru              | *       |                                   |   |   | Thru      |       | *     |   |   |
| Right             | *       |                                   |   |   | Right     |       | *     |   |   |
| Peds              |         |                                   |   |   | Peds      |       |       |   |   |
| NB Right          |         |                                   |   |   | EB Right  |       |       |   |   |
| SB Right          |         |                                   |   |   | WB Right  |       |       |   |   |
| Green             | 30.0A   |                                   |   |   | Green     | 10.0A | 33.0A |   |   |
| Yellow/AR         | 6.0     |                                   |   |   | Yellow/AR | 5.0   | 6.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

Intersection Performance Summary

| Lane | Group:<br>Mvmts | Cap | Adj Sat<br>Flow | v/c<br>Ratio | g/C<br>Ratio | Delay | Approach:<br>LOS | Delay | Approach:<br>LOS |
|------|-----------------|-----|-----------------|--------------|--------------|-------|------------------|-------|------------------|
| EB   | L               | 243 | 662             | 0.045        | 0.367        | 11.9  | B                | 13.9  | B                |
|      | TR              | 617 | 1683            | 0.408        | 0.367        | 14.0  | B                |       |                  |
| WB   | L               | 250 | 682             | 0.756        | 0.367        | 24.5  | C                | 18.4  | C                |
|      | TR              | 637 | 1737            | 0.405        | 0.367        | 13.9  | B                |       |                  |
| NB   | L               | 401 | 1752            | 0.367        | 0.567        | 7.1   | B                | 10.6  | B                |
|      | T               | 710 | 1776            | 0.341        | 0.400        | 12.2  | B                |       |                  |
|      | R               | 627 | 1568            | 0.210        | 0.400        | 11.5  | B                |       |                  |
| SB   | L               | 530 | 1752            | 0.189        | 0.567        | 6.1   | B                | 12.2  | B                |
|      | TR              | 707 | 1768            | 0.522        | 0.400        | 13.8  | B                |       |                  |

Intersection Delay = 13.6 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.633

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Sam Allen Road

(N-S) SR 39

Analyst: JW

File Name: SR39-6.HC9

Area Type: Other

1-7-99 PM

Comment: 2020 Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | < 0  | 1         | 1    | < 0  | 1          | 1    | 1    | 1          | 1    | < 0  |
| Volumes     | 10        | 105  | 135  | 180       | 150  | 90   | 200        | 350  | 180  | 60         | 240  | 15   |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   |           | 0    |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination 1 |         | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
|---------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| EB                  | Left    | *                                 |   |   | NB        | Left  | *     | * |   |
|                     | Thru    | *                                 |   |   |           | Thru  | *     |   |   |
|                     | Right   | *                                 |   |   |           | Right | *     |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| WB                  | Left    | *                                 |   |   | SB        | Left  | *     | * |   |
|                     | Thru    | *                                 |   |   |           | Thru  | *     |   |   |
|                     | Right   | *                                 |   |   |           | Right | *     |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| NB                  | Right   |                                   |   |   | EB        | Right |       |   |   |
| SB                  | Right   |                                   |   |   | WB        | Right |       |   |   |
| Green               | 30.0A   |                                   |   |   | Green     | 10.0A | 33.0A |   |   |
| Yellow/AR           | 6.0     |                                   |   |   | Yellow/AR | 5.0   | 6.0   |   |   |
| Cycle Length:       | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

Intersection Performance Summary

| Lane | Group: | Adj Mvmts | Sat Cap | v/c Flow | g/C Ratio | Ratio | Delay | Approach: LOS | Delay | LOS |
|------|--------|-----------|---------|----------|-----------|-------|-------|---------------|-------|-----|
| EB   | L      | 249       | 249     | 679      | 0.044     | 0.367 | 11.9  | B             | 13.9  | B   |
|      | TR     | 619       | 619     | 1689     | 0.408     | 0.367 | 14.0  | B             |       |     |
| WB   | L      | 249       | 249     | 679      | 0.760     | 0.367 | 24.8  | C             | 18.5  | C   |
|      | TR     | 638       | 638     | 1741     | 0.396     | 0.367 | 13.9  | B             |       |     |
| NB   | L      | 494       | 494     | 1752     | 0.427     | 0.567 | 7.0   | B             | 11.5  | B   |
|      | T      | 710       | 710     | 1776     | 0.518     | 0.400 | 13.8  | B             |       |     |
|      | R      | 627       | 627     | 1568     | 0.301     | 0.400 | 12.0  | B             |       |     |
| SB   | L      | 402       | 402     | 1752     | 0.157     | 0.567 | 6.4   | B             | 11.4  | B   |
|      | TR     | 704       | 704     | 1760     | 0.382     | 0.400 | 12.5  | B             |       |     |

Intersection Delay = 13.5 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.674

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Alexander St.

(N-S) SR 39

Analyst: JW

File Name: SR39-35.HC9

Area Type: Other

1-11-99 AM

Comment: 2020 Build AM Peak Hour

|             | Eastbound |   |   | Westbound |      |      | Northbound |      |      | Southbound |      |   |
|-------------|-----------|---|---|-----------|------|------|------------|------|------|------------|------|---|
|             | L         | T | R | L         | T    | R    | L          | T    | R    | L          | T    | R |
| No. Lanes   | 0         | 0 | 0 | 0         | > 1  | < 0  | 0          | 2    | < 0  | 1          | 2    | 0 |
| Volumes     |           |   |   | 10        | 1    | 445  |            | 395  | 10   | 310        | 820  |   |
| Lane W (ft) |           |   |   |           | 12.0 |      |            | 12.0 |      | 12.0       | 12.0 |   |
| RTOR Vols   |           |   |   |           |      | 0    |            |      | 0    |            |      | 0 |
| Lost Time   |           |   |   | 3.00      | 3.00 | 3.00 |            | 3.00 | 3.00 | 3.00       | 3.00 |   |

Signal Operations

| Phase Combination 1 |         | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
|---------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| EB                  | Left    |                                   |   |   | NB        | Left  |       |   |   |
|                     | Thru    |                                   |   |   |           | Thru  | *     |   |   |
|                     | Right   |                                   |   |   |           | Right | *     |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| WB                  | Left    | *                                 |   |   | SB        | Left  | *     |   |   |
|                     | Thru    | *                                 |   |   |           | Thru  | *     | * |   |
|                     | Right   | *                                 |   |   |           | Right |       |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| NB                  | Right   |                                   |   |   | EB        | Right |       |   |   |
| SB                  | Right   |                                   |   |   | WB        | Right |       |   |   |
| Green               | 30.0A   |                                   |   |   | Green     | 20.0A | 25.0P |   |   |
| Yellow/AR           | 5.0     |                                   |   |   | Yellow/AR | 5.0   | 5.0   |   |   |
| Cycle Length:       | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       |      | Approach: |      |   |
|-------|--------|---------|-------|-------|-------|------|-----------|------|---|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay     | LOS  |   |
| WB    | LTR    | 508     | 1430  | 0.944 | 0.356 | 37.5 | D         | 37.5 | D |
| NB    | TR     | 1061    | 3538  | 0.422 | 0.300 | 16.5 | C         | 16.5 | C |
| SB    | L      | 433     | 1770  | 0.754 | 0.244 | 25.4 | D         | 11.9 | B |
|       | T      | 2052    | 3551  | 0.442 | 0.578 | 7.1  | B         |      |   |

Intersection Delay = 18.5 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.718

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e  
 Center For Microcomputers In Transportation

11-02-1999

Streets: (E-W) Alexander St.

(N-S) SR 39

Analyst: JW

File Name: SR39-36.HC9

Area Type: Other

1-11-99 PM

Comment: 2020 Build PM Peak Hour

|             | Eastbound |   |   | Westbound |      |      | Northbound |      |      | Southbound |      |   |
|-------------|-----------|---|---|-----------|------|------|------------|------|------|------------|------|---|
|             | L         | T | R | L         | T    | R    | L          | T    | R    | L          | T    | R |
| No. Lanes   | 0         | 0 | 0 | 0         | > 1  | < 0  | 0          | 2    | < 0  | 1          | 2    | 0 |
| Volumes     |           |   |   | 10        | 1    | 440  |            | 740  | 10   | 315        | 545  |   |
| Lane W (ft) |           |   |   |           | 12.0 |      |            | 12.0 |      | 12.0       | 12.0 |   |
| RTOR Vols   |           |   |   |           |      | 0    |            |      | 0    |            |      | 0 |
| Lost Time   |           |   |   | 3.00      | 3.00 | 3.00 |            | 3.00 | 3.00 | 3.00       | 3.00 |   |

| Signal Operations   |         |                                   |   |   |           |       |       |   |   |
|---------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|
| Phase Combination 1 |         | 2                                 | 3 | 4 |           | 5     | 6     | 7 | 8 |
| EB                  | Left    |                                   |   |   | NB        | Left  |       |   |   |
|                     | Thru    |                                   |   |   |           | Thru  | *     |   |   |
|                     | Right   |                                   |   |   |           | Right | *     |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| WB                  | Left    | *                                 |   |   | SB        | Left  | *     |   |   |
|                     | Thru    | *                                 |   |   |           | Thru  | *     | * |   |
|                     | Right   | *                                 |   |   |           | Right |       |   |   |
|                     | Peds    |                                   |   |   |           | Peds  |       |   |   |
| NB                  | Right   |                                   |   |   | EB        | Right |       |   |   |
| SB                  | Right   |                                   |   |   | WB        | Right |       |   |   |
| Green               | 30.0A   |                                   |   |   | Green     | 20.0A | 25.0P |   |   |
| Yellow/AR           | 5.0     |                                   |   |   | Yellow/AR | 5.0   | 5.0   |   |   |
| Cycle Length:       | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |

| Intersection Performance Summary |        |         |       |       |       |      |       |      |           |
|----------------------------------|--------|---------|-------|-------|-------|------|-------|------|-----------|
| Lane                             | Group: | Adj Sat | v/c   | g/C   |       |      |       |      | Approach: |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay | LOS  |           |
| WB                               | LTR    | 508     | 1430  | 0.934 | 0.356 | 35.9 | D     | 35.9 | D         |
| NB                               | TR     | 1063    | 3544  | 0.780 | 0.300 | 21.2 | C     | 21.2 | C         |
| SB                               | L      | 433     | 1770  | 0.768 | 0.244 | 26.0 | D     | 13.3 | B         |
|                                  | T      | 2052    | 3551  | 0.294 | 0.578 | 6.3  | B     |      |           |

Intersection Delay = 21.0 sec/veh Intersection LOS = C  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.838

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39  
 Analyst: JW File Name: SR 39-15.HC9  
 Area Type: Other 1-11-99 AM  
 Comment: 2020 Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 2    | 1    | 1          | 2    | < 0  |
| Volumes     | 40        | 85   | 120  | 100       | 190  | 120  | 120        | 620  | 70   | 120        | 910  | 60   |
| Lane W (ft) | 12.0      | 12.0 |      |           | 12.0 |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   | 0         |      |      |           | 0    |      |            | 0    |      |            | 0    |      |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |         |   |  |   |   |   |   |                          |             |   |   |  |
|-------------------|---------|---|--|---|---|---|---|--------------------------|-------------|---|---|--|
| Phase Combination |         |   |  | 1 | 2 | 3 | 4 | 5                        | 6           | 7 | 8 |  |
| EB                | Left    | * |  |   |   |   |   | NB                       | Left        | * | * |  |
|                   | Thru    | * |  |   |   |   |   |                          | Thru        | * |   |  |
|                   | Right   | * |  |   |   |   |   |                          | Right       | * |   |  |
|                   | Peds    |   |  |   |   |   |   |                          | Peds        |   |   |  |
| WB                | Left    | * |  |   |   |   |   | SB                       | Left        | * | * |  |
|                   | Thru    | * |  |   |   |   |   |                          | Thru        | * |   |  |
|                   | Right   | * |  |   |   |   |   |                          | Right       | * |   |  |
|                   | Peds    |   |  |   |   |   |   |                          | Peds        |   |   |  |
| NB                | Right   |   |  |   |   |   |   | EB                       | Right       |   |   |  |
| SB                | Right   |   |  |   |   |   |   | WB                       | Right       |   |   |  |
| Green             | 30.0A   |   |  |   |   |   |   | Green                    | 10.0A 33.0P |   |   |  |
| Yellow/AR         | 6.0     |   |  |   |   |   |   | Yellow/AR                | 5.0 6.0     |   |   |  |
| Cycle Length:     | 90 secs |   |  |   |   |   |   | Phase combination order: | #1 #5 #6    |   |   |  |

| Intersection Performance Summary |        |               |          |           |       |       |     |           |       |       |       |       |
|----------------------------------|--------|---------------|----------|-----------|-------|-------|-----|-----------|-------|-------|-------|-------|
| Lane                             | Group: | Adj Sat Mvmts | v/c Flow | g/C Ratio | Ratio | Delay | LOS | Approach: | Delay | LOS   |       |       |
| Mvmts                            | Cap    | -----         | -----    | -----     | ----- | ----- | --- | -----     | ----- | ----- | ----- | ----- |
| EB                               | LT     | 331           | 902      | 0.396     | 0.367 | 14.1  | B   | 13.4      |       |       |       |       |
|                                  | R      | 575           | 1568     | 0.219     | 0.367 | 12.7  | B   |           |       |       |       |       |
| WB                               | LTR    | 496           | 1353     | 0.869     | 0.367 | 27.8  | D   | 27.8      |       |       |       |       |
| NB                               | L      | 316           | 1752     | 0.399     | 0.567 | 8.9   | B   | 12.4      |       |       |       |       |
|                                  | T      | 1421          | 3551     | 0.483     | 0.400 | 13.2  | B   |           |       |       |       |       |
|                                  | R      | 627           | 1568     | 0.118     | 0.400 | 11.0  | B   |           |       |       |       |       |
| SB                               | L      | 351           | 1752     | 0.359     | 0.567 | 7.0   | B   | 15.8      |       |       |       |       |
|                                  | TR     | 1407          | 3519     | 0.762     | 0.400 | 16.8  | C   |           |       |       |       |       |

Intersection Delay = 16.3 sec/veh Intersection LOS = C  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.772

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

=====
 Streets: (E-W) Knights-Griffin Rd. (N-S) SR 39  
 Analyst: JW File Name: SR 39-16.HC9  
 Area Type: Other 1-11-99 PM  
 Comment: 2020 Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 0         | > 1  | 1    | 0         | > 1  | < 0  | 1          | 2    | 1    | 1          | 2    | < 0  |
| Volumes     | 90        | 180  | 170  | 95        | 135  | 130  | 170        | 875  | 135  | 75         | 595  | 60   |
| Lane W (ft) | 12.0      | 12.0 |      | 12.0      |      |      | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 |      |
| RTOR Vols   | 0         |      |      | 0         |      |      | 0          |      |      | 0          |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |       |      |                                   |   |           |       |       |   |   |   |  |  |
|-------------------|-------|------|-----------------------------------|---|-----------|-------|-------|---|---|---|--|--|
| Phase Combination | 1     | 2    | 3                                 | 4 |           |       | 5     | 6 | 7 | 8 |  |  |
| EB Left           | *     |      |                                   |   | NB        | Left  | *     | * |   |   |  |  |
| Thru              | *     |      |                                   |   | Thru      |       | *     |   |   |   |  |  |
| Right             | *     |      |                                   |   | Right     |       | *     |   |   |   |  |  |
| Peds              |       |      |                                   |   | Peds      |       |       |   |   |   |  |  |
| WB Left           | *     |      |                                   |   | SB        | Left  | *     | * |   |   |  |  |
| Thru              | *     |      |                                   |   | Thru      |       | *     |   |   |   |  |  |
| Right             | *     |      |                                   |   | Right     |       | *     |   |   |   |  |  |
| Peds              |       |      |                                   |   | Peds      |       |       |   |   |   |  |  |
| NB Right          |       |      |                                   |   | EB        | Right |       |   |   |   |  |  |
| SB Right          |       |      |                                   |   | WB        | Right |       |   |   |   |  |  |
| Green             | 35.0A |      |                                   |   | Green     | 10.0A | 30.0P |   |   |   |  |  |
| Yellow/AR         | 5.0   |      |                                   |   | Yellow/AR | 5.0   | 5.0   |   |   |   |  |  |
| Cycle Length:     | 90    | secs | Phase combination order: #1 #5 #6 |   |           |       |       |   |   |   |  |  |

| Intersection Performance Summary |        |         |       |       |       |      |       |      |  |  |  |           |
|----------------------------------|--------|---------|-------|-------|-------|------|-------|------|--|--|--|-----------|
| Lane                             | Group: | Adj Sat | v/c   | g/C   |       |      |       |      |  |  |  | Approach: |
| Mvmts                            | Cap    | Flow    | Ratio | Ratio | Delay | LOS  | Delay | LOS  |  |  |  |           |
| EB                               | LT     | 317     | 770   | 0.897 | 0.411 | 34.6 | D     | 25.6 |  |  |  |           |
|                                  | R      | 645     | 1568  | 0.278 | 0.411 | 11.4 | B     |      |  |  |  |           |
| WB                               | LTR    | 414     | 1006  | 0.916 | 0.411 | 33.9 | D     | 33.9 |  |  |  |           |
| NB                               | L      | 317     | 1752  | 0.565 | 0.522 | 10.6 | B     | 16.9 |  |  |  |           |
|                                  | T      | 1263    | 3551  | 0.766 | 0.356 | 18.6 | C     |      |  |  |  |           |
|                                  | R      | 557     | 1568  | 0.255 | 0.356 | 13.3 | B     |      |  |  |  |           |
| SB                               | L      | 316     | 1752  | 0.250 | 0.522 | 8.9  | B     | 15.1 |  |  |  |           |
|                                  | TR     | 1245    | 3503  | 0.581 | 0.356 | 15.7 | C     |      |  |  |  |           |

Intersection Delay = 20.0 sec/veh Intersection LOS = C  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.835

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

=====
 Streets: (E-W) Zepherhills Bypass (N-S) SR 39  
 Analyst: JW File Name: SR 39-23.HC9  
 Area Type: Other 1-11-99 AM  
 Comment: 2020 Build AM Peak Hour
 =====

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 2    | < 0  | 1          | 2    | < 0  |
| Volumes     | 150       | 150  | 190  | 35        | 70   | 140  | 190        | 950  | 50   | 155        | 645  | 50   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

| Signal Operations |         |                                   |   |   |           |       |       |   |   |   |  |  |
|-------------------|---------|-----------------------------------|---|---|-----------|-------|-------|---|---|---|--|--|
| Phase Combination | 1       | 2                                 | 3 | 4 |           |       | 5     | 6 | 7 | 8 |  |  |
| EB Left           | *       |                                   |   |   | NB        | Left  | *     |   |   |   |  |  |
| Thru              | *       |                                   |   |   |           | Thru  |       | * |   |   |  |  |
| Right             | *       |                                   |   |   |           | Right |       | * |   |   |  |  |
| Peds              |         |                                   |   |   |           | Peds  |       |   |   |   |  |  |
| WB Left           | *       |                                   |   |   | SB        | Left  | *     |   |   |   |  |  |
| Thru              | *       |                                   |   |   |           | Thru  |       | * |   |   |  |  |
| Right             | *       |                                   |   |   |           | Right |       | * |   |   |  |  |
| Peds              |         |                                   |   |   |           | Peds  |       |   |   |   |  |  |
| NB Right          |         |                                   |   |   | EB        | Right |       |   |   |   |  |  |
| SB Right          |         |                                   |   |   | WB        | Right |       |   |   |   |  |  |
| Green             | 25.0A   |                                   |   |   | Green     | 15.0A | 35.0P |   |   |   |  |  |
| Yellow/AR         | 5.0     |                                   |   |   | Yellow/AR | 5.0   | 5.0   |   |   |   |  |  |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 #6 |   |   |           |       |       |   |   |   |  |  |

| Intersection Performance Summary |        |               |          |           |       |       |     |           |       |     |  |  |
|----------------------------------|--------|---------------|----------|-----------|-------|-------|-----|-----------|-------|-----|--|--|
| Lane                             | Group: | Adj Sat Mvmts | v/c Flow | g/C Ratio | Ratio | Delay | LOS | Approach: | Delay | LOS |  |  |
|                                  |        | Cap           |          |           |       |       |     |           |       |     |  |  |
| EB                               | L      | 417           | 1390     | 0.379     | 0.300 | 16.4  | C   | 16.3      |       | C   |  |  |
|                                  | T      | 553           | 1845     | 0.286     | 0.300 | 15.7  | C   |           |       |     |  |  |
|                                  | R      | 470           | 1568     | 0.425     | 0.300 | 16.7  | C   |           |       |     |  |  |
| WB                               | L      | 299           | 996      | 0.124     | 0.300 | 14.8  | B   | 15.4      |       | C   |  |  |
|                                  | T      | 553           | 1845     | 0.134     | 0.300 | 14.8  | B   |           |       |     |  |  |
|                                  | R      | 470           | 1568     | 0.313     | 0.300 | 15.8  | C   |           |       |     |  |  |
| NB                               | L      | 331           | 1752     | 0.604     | 0.189 | 23.8  | C   | 17.6      |       | C   |  |  |
|                                  | TR     | 1449          | 3525     | 0.763     | 0.411 | 16.4  | C   |           |       |     |  |  |
| SB                               | L      | 331           | 1752     | 0.492     | 0.189 | 22.0  | C   | 14.8      |       | B   |  |  |
|                                  | TR     | 1444          | 3513     | 0.532     | 0.411 | 13.2  | B   |           |       |     |  |  |

Intersection Delay = 16.3 sec/veh Intersection LOS = C  
 Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.617
 -----

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 10-27-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) Zepherhills Bypass (N-S) SR 39  
 Analyst: JW File Name: SR 39-24.HC9  
 Area Type: Other 1-11-99 PM  
 Comment: 2020 Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |      | Northbound |      |      | Southbound |      |      |
|-------------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|
|             | L         | T    | R    | L         | T    | R    | L          | T    | R    | L          | T    | R    |
| No. Lanes   | 1         | 1    | 1    | 1         | 1    | 1    | 1          | 2    | < 0  | 1          | 2    | < 0  |
| Volumes     | 20        | 95   | 195  | 90        | 75   | 50   | 195        | 935  | 90   | 65         | 640  | 15   |
| Lane W (ft) | 12.0      | 12.0 | 12.0 | 12.0      | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 | 12.0       | 12.0 | 12.0 |
| RTOR Vols   |           |      | 0    |           |      | 0    |            |      | 0    |            |      | 0    |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 | 3.00       | 3.00 | 3.00 |

Signal Operations

| Phase Combination |         | 1                                 | 2 | 3 | 4 |           | 5     | 6     | 7 | 8 |
|-------------------|---------|-----------------------------------|---|---|---|-----------|-------|-------|---|---|
| EB                | Left    | *                                 |   |   |   | NB        | Left  | *     |   |   |
|                   | Thru    | *                                 |   |   |   |           | Thru  | *     |   |   |
|                   | Right   | *                                 |   |   |   |           | Right | *     |   |   |
|                   | Peds    |                                   |   |   |   |           | Peds  |       |   |   |
| WB                | Left    | *                                 |   |   |   | SB        | Left  | *     |   |   |
|                   | Thru    | *                                 |   |   |   |           | Thru  | *     |   |   |
|                   | Right   | *                                 |   |   |   |           | Right | *     |   |   |
|                   | Peds    |                                   |   |   |   |           | Peds  |       |   |   |
| NB                | Right   |                                   |   |   |   | EB        | Right |       |   |   |
| SB                | Right   |                                   |   |   |   | WB        | Right |       |   |   |
| Green             | 25.0A   |                                   |   |   |   | Green     | 15.0A | 35.0A |   |   |
| Yellow/AR         | 5.0     |                                   |   |   |   | Yellow/AR | 5.0   | 5.0   |   |   |
| Cycle Length:     | 90 secs | Phase combination order: #1 #5 #6 |   |   |   |           |       |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   |       | Approach: |       |      |   |
|-------|--------|---------|-------|-------|-------|-----------|-------|------|---|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay | LOS       | Delay | LOS  |   |
| EB    | L      | 411     | 1370  | 0.051 | 0.300 | 14.5      | B     | 16.1 | C |
|       | T      | 553     | 1845  | 0.181 | 0.300 | 15.1      | C     |      |   |
|       | R      | 470     | 1568  | 0.436 | 0.300 | 16.8      | C     |      |   |
| WB    | L      | 378     | 1261  | 0.251 | 0.300 | 15.5      | C     | 15.1 | C |
|       | T      | 553     | 1845  | 0.143 | 0.300 | 14.9      | B     |      |   |
|       | R      | 470     | 1568  | 0.113 | 0.300 | 14.7      | B     |      |   |
| NB    | L      | 331     | 1752  | 0.619 | 0.189 | 24.1      | C     | 18.1 | C |
|       | TR     | 1441    | 3504  | 0.786 | 0.411 | 17.0      | C     |      |   |
| SB    | L      | 331     | 1752  | 0.205 | 0.189 | 19.9      | C     | 13.5 | B |
|       | TR     | 1455    | 3539  | 0.498 | 0.411 | 12.9      | B     |      |   |

Intersection Delay = 16.2 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.634

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) US 301

(N-S) SR 39

Analyst: JW

File Name: SR39-31.HC9

Area Type: Other

1-11-99 AM

Comment: 2020 Build AM Peak Hour

|             | Eastbound |      |      | Westbound |      |   | Northbound |   |      | Southbound |   |   |
|-------------|-----------|------|------|-----------|------|---|------------|---|------|------------|---|---|
|             | L         | T    | R    | L         | T    | R | L          | T | R    | L          | T | R |
| No. Lanes   | 0         | 2    | < 0  | 2         | 2    | 0 | 1          | 0 | 2    | 0          | 0 | 0 |
| Volumes     |           | 840  | 10   | 805       | 1230 |   | 5          |   | 1040 |            |   |   |
| Lane W (ft) |           | 12.0 |      | 12.0      | 12.0 |   | 12.0       |   | 12.0 |            |   |   |
| RTOR Vols   |           |      | 0    |           |      | 0 |            |   | 0    |            |   |   |
| Lost Time   |           | 3.00 | 3.00 | 3.00      | 3.00 |   | 3.00       |   | 3.00 |            |   |   |

Signal Operations

| Phase Combination 1 |         | 2                                 | 3     | 4 | 5         | 6     | 7 | 8 |
|---------------------|---------|-----------------------------------|-------|---|-----------|-------|---|---|
| EB                  | Left    |                                   |       |   | NB        | Left  | * |   |
|                     | Thru    |                                   | *     |   |           | Thru  |   |   |
|                     | Right   |                                   | *     |   |           | Right | * |   |
|                     | Peds    |                                   |       |   |           | Peds  |   |   |
| WB                  | Left    | *                                 |       |   | SB        | Left  |   |   |
|                     | Thru    | *                                 | *     |   |           | Thru  |   |   |
|                     | Right   |                                   |       |   |           | Right |   |   |
|                     | Peds    |                                   |       |   |           | Peds  |   |   |
| NB                  | Right   | *                                 |       |   | EB        | Right |   |   |
| SB                  | Right   |                                   |       |   | WB        | Right |   |   |
| Green               |         | 25.0A                             | 23.0A |   | Green     | 25.0A |   |   |
| Yellow/AR           |         | 5.0                               | 6.0   |   | Yellow/AR | 6.0   |   |   |
| Cycle Length:       | 90 secs | Phase combination order: #1 #2 #5 |       |   |           |       |   |   |

Intersection Performance Summary

| Lane  | Group: | Adj Sat | v/c   | g/C   | Approach: |      |       |      |
|-------|--------|---------|-------|-------|-----------|------|-------|------|
| Mvmts | Cap    | Flow    | Ratio | Ratio | Delay     | LOS  | Delay | LOS  |
| EB    | TR     | 1074    | 3719  | 0.875 | 0.289     | 25.5 | D     | 25.5 |
| WB    | L      | 1012    | 3374  | 0.861 | 0.300     | 24.7 | C     | 13.8 |
|       | T      | 2318    | 3725  | 0.587 | 0.622     | 6.8  | B     |      |
| NB    | L      | 525     | 1687  | 0.010 | 0.311     | 13.8 | B     | 6.8  |
|       | R      | 1946    | 3019  | 0.636 | 0.644     | 6.7  | B     |      |

Intersection Delay = 14.3 sec/veh Intersection LOS = B

Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.710

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4e 11-02-1999  
 Center For Microcomputers In Transportation

Streets: (E-W) US 301 (N-S) SR 39  
 Analyst: JW File Name: SR39-32.HC9  
 Area Type: Other 1-11-99 PM  
 Comment: 2020 Build PM Peak Hour

|             | Eastbound |      |      | Westbound |      |   | Northbound |   |      | Southbound |   |   |
|-------------|-----------|------|------|-----------|------|---|------------|---|------|------------|---|---|
|             | L         | T    | R    | L         | T    | R | L          | T | R    | L          | T | R |
| No. Lanes   | 0         | 2    | < 0  | 2         | 2    | 0 | 1          | 0 | 2    | 0          | 0 | 0 |
| Volumes     | 990       | 10   |      | 805       | 920  |   | 10         |   | 1030 |            |   |   |
| Lane W (ft) | 12.0      |      |      | 12.0      | 12.0 |   | 12.0       |   | 12.0 |            |   |   |
| RTOR Vols   |           | 0    |      |           |      | 0 |            |   | 0    |            |   |   |
| Lost Time   | 3.00      | 3.00 | 3.00 | 3.00      |      |   | 3.00       |   | 3.00 |            |   |   |

| Signal Operations   |      |      |                          |       |           |      |   |   |   |   |  |  |
|---------------------|------|------|--------------------------|-------|-----------|------|---|---|---|---|--|--|
| Phase Combination 1 |      |      |                          | 2     | 3         | 4    | 5 | 6 | 7 | 8 |  |  |
| EB Left             |      |      |                          | NB    | Left      |      | * |   |   |   |  |  |
| Thru                |      | *    |                          | Thru  |           |      |   |   |   |   |  |  |
| Right               |      | *    |                          | Right |           | *    |   |   |   |   |  |  |
| Peds                |      |      |                          | Peds  |           |      |   |   |   |   |  |  |
| WB Left             |      | *    |                          | SB    | Left      |      |   |   |   |   |  |  |
| Thru                |      | *    | *                        | Thru  |           |      |   |   |   |   |  |  |
| Right               |      |      |                          | Right |           |      |   |   |   |   |  |  |
| Peds                |      |      |                          | Peds  |           |      |   |   |   |   |  |  |
| NB Right            |      | *    |                          | EB    | Right     |      |   |   |   |   |  |  |
| SB Right            |      |      |                          | WB    | Right     |      |   |   |   |   |  |  |
| Green               | 25.0 | A    | 26.0                     | A     | Green     | 22.0 | A |   |   |   |  |  |
| Yellow/AR           | 5.0  |      | 6.0                      |       | Yellow/AR | 6.0  |   |   |   |   |  |  |
| Cycle Length:       | 90   | secs | Phase combination order: | #1    | #2        | #5   |   |   |   |   |  |  |

| Intersection Performance Summary |        |           |         |          |           |       |       |     |           |       |     |  |
|----------------------------------|--------|-----------|---------|----------|-----------|-------|-------|-----|-----------|-------|-----|--|
| Lane                             | Group: | Adj Mvmts | Sat Cap | v/c Flow | g/C Ratio | Ratio | Delay | LOS | Approach: | Delay | LOS |  |
| EB                               | TR     | 1199      |         | 3720     | 0.923     | 0.322 | 27.5  | D   | 27.5      |       | D   |  |
| WB                               | L      | 1012      |         | 3374     | 0.861     | 0.300 | 24.7  | C   | 14.0      | B     |     |  |
|                                  | T      | 2442      |         | 3725     | 0.416     | 0.656 | 4.8   | A   |           |       |     |  |
| NB                               | L      | 469       |         | 1687     | 0.023     | 0.278 | 15.3  | C   | 8.1       | B     |     |  |
|                                  | R      | 1845      |         | 3019     | 0.664     | 0.611 | 8.0   | B   |           |       |     |  |

Intersection Delay = 15.8 sec/veh Intersection LOS = C  
 Lost Time/Cycle, L = 6.0 sec Critical v/c(x) = 0.753

TABLE E - 2

**GENERALIZED ANNUAL AVERAGE DAILY VOLUMES FOR FLORIDA'S  
AREAS TRANSITIONING INTO URBANIZED AREAS OR  
AREAS OVER 5000 NOT IN URBANIZED AREAS\***

| STATE TWO-WAY ARTERIALS<br>UNINTERRUPTED FLOW  |        |                    |        |        |        | FREEWAYS         |           |         |         |                    |         |
|--|--------|--------------------|--------|--------|--------|------------------|-----------|---------|---------|--------------------|---------|
|  |        |                    |        |        |        | Level of Service |           |         |         |                    |         |
| Lanes  | A      | B                  | C      | D      | E      | Lanes            | A         | B       | C       | D                  | E       |
| 2 Undiv.   | 8,400  | 13,000             | 17,700 | 23,300 | 31,000 | 4                | 20,100    | 32,200  | 47,900  | 60,400             | 68,100  |
| 4 Div.   | 20,600 | 34,500             | 47,800 | 57,000 | 66,300 | 6                | 30,400    | 48,500  | 72,200  | 91,100             | 107,300 |
| 6 Div.   | 30,800 | 51,700             | 71,600 | 85,600 | 99,500 | 8                | 40,500    | 64,700  | 96,300  | 121,500            | 143,100 |
|  |        |                    |        |        |        | 10               | 50,600    | 80,900  | 120,400 | 151,900            | 178,900 |
| INTERRUPTED FLOW   |        |                    |        |        |        |                  |           |         |         |                    |         |
| Class Ia (>0.00 to 2.49 signalized intersections per mile)   |        |                    |        |        |        |                  |           |         |         |                    |         |
| Lanes  | A**    | B**                | C      | D***   | E***   | Lanes            | A**       | B**     | C       | D                  | E       |
| 2 Undiv.   |        | 11,500             | 14,000 | 15,300 | 15,900 |                  |           |         | 9,900   | 12,900             | 14,100  |
| 4 Div.   |        | 25,500             | 30,600 | 32,800 | 33,500 |                  |           |         | 22,100  | 28,200             | 30,200  |
| 6 Div.   |        | 39,600             | 46,400 | 49,700 | 50,300 |                  |           |         | 34,300  | 43,200             | 45,700  |
| Class Ib (2.50 to 4.50 signalized intersections per mile)  |        |                    |        |        |        |                  |           |         |         |                    |         |
| Lanes  | A**    | B**                | C      | D      | E      | Lanes            | A**       | B**     | C       | D                  | E       |
| 2 Undiv.   |        |                    | 8,000  | 13,200 | 14,600 |                  |           |         | 4,700   | 9,200              | 10,600  |
| 4 Div.   |        |                    | 17,600 | 28,600 | 31,300 |                  |           |         | 10,300  | 20,500             | 22,800  |
| 6 Div.   |        |                    | 26,900 | 43,600 | 47,300 |                  |           |         |         |                    |         |
| Class II (more than 4.50 signalized intersections per mile and not within primary city central business district or urbanized area over 500,000) |        |                    |        |        |        |                  |           |         |         |                    |         |
| Lanes  | A**    | B**                | C**    | D      | E      | Lanes            | Median    | Divided | Bays    | Adjustment Factors |         |
| 2 Undiv.   |        |                    |        | 10,900 | 14,100 | 2                | Yes       |         |         | +5%                |         |
| 4 Div.   |        |                    |        | 24,600 | 30,900 | 2                | Undivided |         | No      | -20%               |         |
| 6 Div.   |        |                    |        | 37,800 | 47,000 | Multi            | Undivided |         | Yes     | -5%                |         |
|  |        |                    |        |        |        | Multi            | Undivided |         | No      | -25%               |         |
| ADJUSTMENTS  |        |                    |        |        |        |                  |           |         |         |                    |         |
| DIVIDED/UNDIVIDED<br>(alter corresponding two-way volume indicated percent)  |        |                    |        |        |        |                  |           |         |         |                    |         |
|  |        |                    |        |        |        |                  |           |         |         |                    |         |
|  |        |                    |        |        |        |                  |           |         |         |                    |         |
| ONE-WAY<br>(alter corresponding two-way volume indicated percent)  |        |                    |        |        |        |                  |           |         |         |                    |         |
|  |        |                    |        |        |        |                  |           |         |         |                    |         |
|  |        |                    |        |        |        |                  |           |         |         |                    |         |
| One-Way  | Lanes  | Adjustment Factors |        |        |        |                  |           |         |         |                    |         |
| 2  | 4      | -40%               |        |        |        |                  |           |         |         |                    |         |
| 3  | 6      | -40%               |        |        |        |                  |           |         |         |                    |         |
| 4  | 6      | -25%               |        |        |        |                  |           |         |         |                    |         |

The table does not constitute a standard and should be used only for general planning applications. The computer models from which this table is derived should be used for more specific planning applications. The table and deriving computer models should not be used for corridor or intersection design, where more refined techniques exist. Values shown are annual average daily traffic (AADT) maximum volumes (based on  $K_{max}$  factors, not peak to daily ratios) for levels of service, and are based on the 1994 Highway Capacity Manual Update and Florida traffic, roadway and signalization data. The table's input value assumptions and level of service criteria appear on the back.

\*\* Cannot be achieved.

\*\*\* Volumes are comparable because intersection capacities are reached.

Source: Florida Department of Transportation, 1995.

## APPENDIX H

### RESULTS OF YEAR 2010 AND 2020 INTERSECTION QUEUE LENGTH ANALYSIS

| Intersection                        | Queue Lengths (in meters) |         |        |        |           |        |      |         |            |      |         |        |
|-------------------------------------|---------------------------|---------|--------|--------|-----------|--------|------|---------|------------|------|---------|--------|
|                                     | Eastbound                 |         |        |        | Westbound |        |      |         | Northbound |      |         |        |
|                                     | Left                      | Through | Right  | Left   | Through   | Right  | Left | Through | Right      | Left | Through | Right  |
| <b>2010 AM Peak</b>                 |                           |         |        |        |           |        |      |         |            |      |         |        |
| SR 39/US 301                        | n/a                       | 121     | shared | 114    | 173       | n/a    | 2    | n/a     | 146        | n/a  | n/a     | n/a    |
| SR 39/Zephyrhills Bypass            | 49                        | 49      | 53     | 11     | 21        | 47     | 53   | 149     | shared     | 53   | 109     | shared |
| SR 39/Knights-Griffin Rd.           | shared                    | 39      | 36     | shared | 129       | shared | 36   | 87      | 21         | 36   | 150     | shared |
| Alexander St. Ext./Joe McIntosh Rd. | n/a                       | n/a     | 4      | n/a    | 120       | n/a    | 59   | shared  | 88         | 88   | 116     | n/a    |
| Alexander St. Ext./Sam Allen Rd.    | 9                         | 28      | 64     | 68     | 24        | 15     | 51   | 68      | 62         | 21   | 118     | 13     |
| SR 39/Sam Allen Rd.                 | 2                         | 75      | shared | 73     | 54        | shared | 51   | 73      | 49         | 19   | 109     | shared |
| <b>2010 PM Peak</b>                 |                           |         |        |        |           |        |      |         |            |      |         |        |
| SR 39/US 301                        | n/a                       | 143     | shared | 106    | 138       | n/a    | 2    | n/a     | 144        | n/a  | n/a     | n/a    |
| SR 39/Zephyrhills Bypass            | 6                         | 28      | 56     | 30     | 26        | 15     | 56   | 163     | shared     | 15   | 95      | shared |
| SR 39/Knights-Griffin Rd.           | shared                    | 88      | 49     | shared | 116       | shared | 49   | 123     | 41         | 32   | 102     | shared |
| Alexander St. Ext./Joe McIntosh Rd. | n/a                       | n/a     | 4      | n/a    | 126       | n/a    | 109  | shared  | 90         | 90   | 77      | n/a    |
| Alexander St. Ext./Sam Allen Rd.    | 2                         | 34      | 66     | 62     | 32        | 15     | 51   | 77      | 53         | 23   | 128     | 4      |
| SR 39/Sam Allen Rd.                 | 2                         | 75      | shared | 75     | 56        | shared | 71   | 109     | 75         | 13   | 77      | shared |
| <b>2020 AM Peak</b>                 |                           |         |        |        |           |        |      |         |            |      |         |        |
| SR 39/US 301                        | n/a                       | 161     | shared | 151    | 231       | n/a    | 2    | n/a     | 195        | n/a  | n/a     | n/a    |
| SR 39/Zephyrhills Bypass            | 56                        | 56      | 71     | 13     | 26        | 53     | 71   | 197     | shared     | 58   | 140     | shared |
| SR 39/Knights-Griffin Rd.           | shared                    | 47      | 45     | shared | 154       | shared | 45   | 116     | 26         | 45   | 193     | shared |
| Alexander St. Ext./Joe McIntosh Rd. | n/a                       | n/a     | 4      | n/a    | 167       | n/a    | 78   | shared  | 116        | 116  | 154     | n/a    |
| Alexander St. Ext./Sam Allen Rd.    | 13                        | 34      | 81     | 84     | 32        | 19     | 69   | 90      | 79         | 28   | 159     | 19     |
| SR 39/Sam Allen Rd.                 | 4                         | 90      | shared | 68     | 92        | shared | 53   | 86      | 47         | 36   | 131     | shared |
| <b>2010 PM Peak</b>                 |                           |         |        |        |           |        |      |         |            |      |         |        |
| SR 39/US 301                        | n/a                       | 189     | shared | 151    | 173       | n/a    | 4    | n/a     | 193        | n/a  | n/a     | n/a    |
| SR 39/Zephyrhills Bypass            | 8                         | 36      | 73     | 34     | 28        | 19     | 73   | 209     | shared     | 24   | 126     | shared |
| SR 39/Knights-Griffin Rd.           | shared                    | 101     | 64     | shared | 135       | shared | 64   | 164     | 51         | 28   | 134     | shared |
| Alexander St. Ext./Joe McIntosh Rd. | n/a                       | n/a     | 4      | n/a    | 165       | n/a    | 143  | shared  | 118        | 118  | 102     | n/a    |
| Alexander St. Ext./Sam Allen Rd.    | 4                         | 43      | 81     | 77     | 39        | 19     | 66   | 101     | 69         | 32   | 171     | 4      |
| SR 39/Sam Allen Rd.                 | 4                         | 90      | shared | 68     | 90        | shared | 75   | 131     | 68         | 23   | 96      | shared |

Number of cycles per hour for peak hour = 40